$$\boxed{d = 16}$$

$$\Psi_{\mathbb{Q}}(16) \supseteq \left\{ \begin{array}{c} (5), (8), (10), (12), (15), (16), (17), (20), (21), (24), (30), (32), (40), (48), \\ (2,6), (2,8), (2,10), (2,12), (2,16), (2,20), (2,24), (2,30), (2,32), \\ (3,3), (3,6), (3,12), (3,15), (4,4), (4,8), (4,12), (4,16), (4,20), (5,5), (5,15), (6,6), (6,12), (8,8) \end{array} \right\}$$

G	$\Psi_{\mathbb{Q}}(16, G) \setminus \{G\} \supseteq$
$()$	$\{(5), (15), (17), (21), (3,3), (3,15), (5,5), (5,15)\}$
(2)	$\left\{ \begin{array}{c} \{(8), (10), (12), (16), (20), (24), (30), (32), (40), (48), (2,6), (2,8), (2,10), (2,12), (2,16), (2,20), (2,24), \\ (2,30), (2,32), (3,6), (3,12), (4,4), (4,8), (4,12), (4,16), (4,20), (6,6), (6,12), (8,8) \end{array} \right\}$
(3)	$\{(5,15)\}$
(4)	$\{(16), (20), (24), (32), (40), (48), (2,12), (2,16), (2,20), (2,24), (2,32), (3,12), (4,8), (4,12), (4,16), (4,20), (6,12), (8,8)\}$
(5)	$\{\}$
(6)	$\{(24), (48), (2,24), (4,12), (6,12)\}$
(7)	$\{\}$
(8)	$\{(32), (48), (2,24), (2,32), (4,16), (8,8)\}$
(9)	$\{\}$
(10)	$\{(40), (2,30)\}$
(12)	$\{(48)\}$
$(2,2)$	$\{(2,8), (2,10), (2,12), (2,16), (2,20), (2,24), (2,32), (4,4), (4,8), (4,12), (4,16), (4,20), (6,6), (6,12), (8,8)\}$
$(2,4)$	$\{(2,16), (2,24), (2,32), (4,8), (4,12), (4,16), (8,8)\}$
$(2,6)$	$\{(2,24), (4,12)\}$
$(2,8)$	$\{(2,32), (4,16), (8,8)\}$

$hpsi_{\mathbb{Q}}(16) = 10$

Number of configurations: 336

Maximun conductor to obtain all the configurations: 960

G	$\mathcal{H}_{\mathbb{Q}}(16, E)$	Label
$()$	$(3, 3)$	245a1
$()$	$(3, 15)$	338d1
$()$	(5)	608b1
$()$	$(5, 5)$	6975a1
$()$	$(5, 15)$	225a1
$()$	(15)	75a2
$()$	(17)	14450n2
$()$	(21)	208d1
$()$	$(5), (3, 3)$	361a1
$()$	$(5), (15)$	121b1
$()$	$(15), (3, 3)$	1369e1
$()$	$(15), (5, 5)$	3600bc1
$()$	$(15)^2$	338d2
(2)	(8)	36a3
(2)	(24)	144a3
(2)	$(2, 6), (4, 8)$	200b1
(2)	$(2, 8), (4, 12)$	576a2
(2)	$(2, 24), (4, 12)$	36a4
(2)	$(8), (2, 6)$	46a1
(2)	$(8), (2, 12)$	2352t3
(2)	$(8), (2, 24)$	1040g2
(2)	$(8), (2, 30)$	450a3
(2)	$(8), (4, 12)$	80b1
(2)	$(8), (6, 6)$	2205a2
(2)	$(24), (2, 12)$	84a4
(2)	$(24), (4, 12)$	80b2
(2)	$(2, 6), (2, 8), (4, 4)$	128a2
(2)	$(2, 6), (2, 16), (4, 8)$	3362a1
(2)	$(2, 6), (4, 8)^2$	294f2
(2)	$(2, 8), (2, 24)^2$	720j3
(2)	$(2, 24)^3$	960o7
(2)	$(2, 24)^2, (4, 12)$	30a3
(2)	$(8), (2, 6), (2, 8)$	128a1
(2)	$(8), (2, 6), (2, 20)$	1014c1
(2)	$(8), (2, 6), (3, 6)$	1568d1
(2)	$(8), (2, 6), (4, 4)$	52a1
(2)	$(8), (2, 6), (4, 8)$	768a2

G	$\mathcal{H}_{\mathbb{Q}}(16, E)$	Label
(2)	$(8), (2, 8), (4, 12)$	130a4
(2)	$(8), (2, 12)^2$	14a3
(2)	$(8), (4, 4), (6, 6)$	173280f2
(2)	$(8), (6, 12)^2$	98a3
(2)	$(8), (12), (6, 6)$	4107a1
(2)	$(8), (20), (2, 6)$	66c3
(2)	$(16), (2, 24), (4, 12)$	960e3
(2)	$(48), (2, 24), (4, 12)$	960o3
(2)	$(2, 6), (2, 8)^2, (4, 4)$	200b2
(2)	$(2, 6), (2, 8)^2, (4, 8)$	16810b1
(2)	$(2, 6), (2, 8), (3, 6), (4, 4)$	4225j1
(2)	$(2, 8), (2, 12)^2, (4, 4)$	900b2
(2)	$(2, 8), (2, 12), (4, 4), (6, 6)$	223494n1
(2)	$(2, 8), (2, 24)^2, (4, 12)$	150c7
(2)	$(2, 12)^2, (4, 8), (6, 6)$	256a1
(2)	$(8), (2, 6), (2, 8)^2$	867b1
(2)	$(8), (2, 6), (2, 20)^2$	1014c2
(2)	$(8), (2, 6), (3, 6), (4, 4)$	126350bb1
(2)	$(8), (2, 12)^2, (4, 4)$	20a3
(2)	$(8), (2, 12)^2, (6, 12)$	3136k3
(2)	$(8), (2, 12), (3, 12), (6, 6)$	726a2
(2)	$(8), (2, 16), (4, 8), (6, 6)$	49a1
(2)	$(8), (12), (2, 6), (3, 6)$	2205a1
(2)	$(8), (12), (2, 12)^2$	726a1
(2)	$(8), (12)^2, (6, 6)$	1210a1
(2)	$(8), (30), (2, 6), (2, 20)$	14400cg3
(2)	$(10), (2, 20), (4, 8), (6, 12)$	288d4
(2)	$(12)^2, (2, 6), (4, 8)$	7200bn4
(2)	$(16), (2, 6), (2, 8)^2$	294f1
(2)	$(16), (2, 24)^2, (4, 12)$	150c8
(2)	$(24), (2, 12)^2, (4, 4)$	650j1
(2)	$(24), (2, 12)^2, (6, 12)$	98a4
(2)	$(30), (40), (2, 6), (2, 20)$	450a4
(2)	$(2, 8), (2, 12)^2, (4, 4), (6, 6)$	2304c1
(2)	$(2, 8), (2, 12)^2, (4, 8), (6, 6)$	256a2
(2)	$(8), (10), (2, 10), (4, 4), (6, 6)$	7200a2
(2)	$(8), (10), (2, 10), (4, 4), (6, 12)$	288a1

G	$\mathcal{H}_{\mathbb{Q}}(16, E)$	Label
(2)	$(8), (12), (2,6), (3,6), (4,4)$	173280f1
(2)	$(8), (30), (2,6), (2,20)^2$	150b3
(2)	$(10), (2,6), (2,10), (3,6), (4,8)$	2304h2
(2)	$(10), (2,6), (2,10), (3,6), (8,8)$	256b1
(2)	$(12)^2, (2,6), (2,8)^2$	153c4
(2)	$(12)^2, (2,6), (2,8), (4,4)$	153c1
(2)	$(12)^2, (2,6), (2,8), (4,8)$	289a3
(2)	$(12)^2, (2,6), (4,8)^2$	320a4
(2)	$(12)^2, (16), (2,6), (4,8)$	200c4
(2)	$(12), (24), (2,6), (2,8), (4,16)$	277440dv8
(2)	$(12), (24), (2,6), (2,16), (4,8)$	441c1
(2)	$(16)^2, (2,6), (2,8), (4,4)$	768c1
(2)	$(24), (2,8), (2,12)^2, (4,4)$	130a3
(2)	$(24), (2,8), (2,12), (2,24), (4,4)$	30a7
(2)	$(24)^2, (2,8)^2, (4,12)$	30a8
(2)	$(8), (2,6), (2,10)^2, (3,6), (4,4)$	800d1
(2)	$(8), (2,12)^4, (3,12)$	112c3
(2)	$(8), (10), (2,6), (2,10), (3,6), (4,4)$	1568a1
(2)	$(8), (10), (2,10), (2,12), (4,4), (6,6)$	576f1
(2)	$(8), (10), (2,10), (2,12), (4,4), (6,12)$	288a2
(2)	$(8), (10), (12), (2,10), (4,4), (6,6)$	576f2
(2)	$(8), (20), (2,6), (2,10), (3,6), (4,4)$	800d2
(2)	$(10), (12)^2, (2,20), (4,8), (6,6)$	576h1
(2)	$(10), (16), (2,6), (2,10), (3,6), (8,8)$	256b2
(2)	$(12)^2, (2,6), (2,8)^3$	33a4
(2)	$(12)^2, (2,6), (2,8)^2, (4,4)$	120b1
(2)	$(12)^2, (2,6), (2,8), (2,16), (4,8)$	40a2
(2)	$(12)^2, (2,6), (2,16)^2, (4,8)$	600a5
(2)	$(12)^2, (16), (2,6), (2,8), (4,4)$	33a2
(2)	$(12)^2, (16), (2,6), (2,8), (4,8)$	17a3
(2)	$(12)^2, (16)^2, (2,6), (4,8)$	360a1
(2)	$(12)^2, (20), (2,20), (4,8), (6,6)$	800a4
(2)	$(12), (16)^2, (24), (2,6), (4,16)$	1200j6
(2)	$(12), (16), (24), (2,6), (2,16), (4,8)$	144b6
(2)	$(12), (24), (2,6), (2,8), (2,16)^2$	147a3
(2)	$(12), (24), (2,6), (2,8), (2,16), (4,8)$	576i4
(2)	$(12), (24), (2,6), (2,16)^2, (4,8)$	306c1

G	$\mathcal{H}_{\mathbb{Q}}(16, E)$	Label
(2)	$(12), (24), (2, 6), (2, 16)^2, (4, 16)$	225c6
(2)	$(12), (24), (2, 6), (2, 16)^2, (8, 8)$	192d6
(2)	$(12), (24), (2, 6), (2, 16), (2, 32), (4, 8)$	45a1
(2)	$(12), (24), (32), (2, 6), (2, 16), (4, 8)$	63a1
(2)	$(12), (24), (32)^2, (2, 6), (4, 16)$	25200dz1
(2)	$(12), (48), (2, 6), (2, 32)^2, (4, 16)$	3150bk1
(2)	$(16)^2, (2, 6), (2, 8), (3, 6), (4, 4)$	49a2
(2)	$(16), (24), (2, 8), (2, 12), (2, 24), (4, 4)$	90c5
(2)	$(24)^2, (2, 6), (4, 16)^2, (8, 8)$	2880r6
(2)	$(24)^2, (2, 8)^3, (4, 12)$	90c4
(2)	$(24)^2, (2, 8)^2, (2, 12), (4, 4)$	210a3
(2)	$(10), (2, 6), (2, 8)^2, (2, 10), (3, 6), (4, 8)$	2304h1
(2)	$(10), (12)^2, (16), (4, 20), (6, 6), (8, 8)$	64a4
(2)	$(12)^2, (2, 6), (2, 8), (2, 16)^2, (4, 8)$	144b5
(2)	$(12)^2, (2, 6), (2, 16)^2, (4, 8)^2$	72a3
(2)	$(12)^2, (16), (2, 6), (2, 8), (2, 16), (4, 4)$	306c4
(2)	$(12)^2, (16), (2, 6), (2, 16)^2, (4, 8)$	192d1
(2)	$(12)^2, (16)^2, (2, 6), (2, 8), (4, 4)$	320a1
(2)	$(12)^2, (16)^2, (2, 6), (2, 8), (4, 8)$	306c6
(2)	$(12)^2, (16)^2, (2, 6), (4, 8)^2$	63a6
(2)	$(12)^2, (16)^2, (2, 6), (4, 8), (4, 16)$	4410r6
(2)	$(12)^2, (16)^3, (2, 6), (4, 8)$	600d1
(2)	$(12)^2, (32), (2, 6), (2, 16)^2, (4, 8)$	45a3
(2)	$(12), (16)^2, (24), (2, 6), (2, 16)^2$	585f6
(2)	$(12), (16)^2, (24), (32), (2, 6), (4, 16)$	75b6
(2)	$(12), (16), (24), (2, 6), (2, 8), (2, 16)^2$	120a6
(2)	$(12), (16), (24), (2, 6), (2, 8), (2, 16), (4, 8)$	192c4
(2)	$(12), (16), (24), (2, 6), (2, 16)^2, (4, 8)$	126b1
(2)	$(12), (16), (24), (2, 6), (2, 16)^2, (8, 8)$	24a6
(2)	$(12), (16), (24), (32), (2, 6), (2, 8), (4, 16)$	510e7
(2)	$(12), (16), (24), (32), (2, 6), (2, 16), (4, 8)$	1344g1
(2)	$(12), (24), (2, 6), (2, 8), (2, 16)^2, (4, 8)$	126b5
(2)	$(12), (24), (2, 6), (2, 8), (2, 16)^2, (4, 16)$	48a4
(2)	$(12), (24), (32), (2, 6), (2, 8), (2, 16), (4, 8)$	1344g4
(2)	$(12), (24), (32), (2, 6), (2, 16), (2, 32), (4, 8)$	75b1
(2)	$(12), (24), (32)^2, (2, 6), (2, 8), (4, 16)$	1470k3
(2)	$(12), (24), (32)^2, (2, 6), (2, 16), (4, 8)$	630c1

G	$\mathcal{H}_{\mathbb{Q}}(16, E)$	Label
(2)	$(10), (12), (2,6), (2,8), (2,16), (2,20), (3,12), (4,8)$	64a2
(2)	$(10), (20)^2, (2,8), (2,10), (2,12), (3,12), (4,4)$	288d3
(2)	$(12)^2, (2,6), (2,8), (2,16)^3, (4,8)$	24a5
(2)	$(12)^2, (2,6), (2,16)^4, (4,8)$	6720c6
(2)	$(12)^2, (2,6), (2,16)^3, (4,8)^2$	15a5
(2)	$(12)^2, (16), (2,6), (2,8)^2, (2,16), (4,4)$	45a7
(2)	$(12)^2, (16), (2,6), (2,8), (2,16)^2, (4,8)$	120a5
(2)	$(12)^2, (16), (2,6), (2,16)^2, (4,8)^2$	48a2
(2)	$(12)^2, (16)^2, (2,6), (2,8)^2, (4,4)$	525b6
(2)	$(12)^2, (16)^2, (2,6), (2,8), (2,16), (4,4)$	45a8
(2)	$(12)^2, (16)^2, (2,6), (2,8), (2,16), (4,8)$	21a5
(2)	$(12)^2, (16)^2, (2,6), (2,16)^2, (4,8)$	1050c6
(2)	$(12)^2, (16)^3, (2,6), (2,8), (4,4)$	525b5
(2)	$(12)^2, (16)^3, (2,6), (2,8), (4,8)$	231a5
(2)	$(12)^2, (16)^3, (2,6), (4,8)^2$	21a6
(2)	$(12)^2, (16)^4, (2,6), (4,8)$	2925g6
(2)	$(12)^2, (16)^4, (2,6), (8,8)$	6150n6
(2)	$(12)^2, (16), (32), (2,6), (2,8), (2,16), (4,4)$	585f1
(2)	$(12)^2, (32), (2,6), (2,8), (2,16)^2, (4,8)$	225c3
(2)	$(12)^2, (32)^2, (2,6), (2,16)^2, (4,8)$	1200j1
(2)	$(12), (16)^2, (24), (2,6), (2,16)^2, (8,8)$	45a6
(2)	$(12), (16), (24), (32), (2,6), (2,8), (2,16), (4,8)$	294c5
(2)	$(12), (16), (24), (32)^2, (2,6), (2,8), (4,16)$	1680p1
(2)	$(12), (16), (24), (32)^2, (2,6), (2,16), (4,8)$	4800cd8
(2)	$(12), (24), (32)^2, (2,6), (2,8), (2,16), (4,8)$	4800cd7
(2)	$(10), (12), (20)^2, (2,6), (2,8), (2,10), (3,12), (4,4)$	288d2
(2)	$(10), (12), (40), (2,6), (2,8), (2,16), (2,20), (3,12), (4,8)$	32a3
(2)	$(12)^2, (2,6), (2,16)^4, (4,8)^2$	1470k6
(2)	$(12)^2, (16)^2, (2,6), (2,8)^2, (2,16), (4,4)$	441c5
(2)	$(12)^2, (16)^2, (2,6), (2,16)^2, (4,8)^2$	630c6
(2)	$(12)^2, (16)^4, (2,6), (4,8)^2$	975a6
(2)	$(12)^2, (16)^2, (32), (2,6), (2,8), (2,16), (4,4)$	225c8
(2)	$(12)^2, (16)^2, (32), (2,6), (2,16)^2, (4,8)$	3150bk6
(2)	$(12)^2, (16), (32), (2,6), (2,8)^2, (2,16), (4,4)$	225c7
(2)	$(12)^2, (16), (32), (2,6), (2,8), (2,16)^2, (4,8)$	1230f7
(2)	$(12), (16), (24), (32)^2, (2,6), (2,8), (2,16), (4,8)$	6720cd1
(2)	$(10), (12)^2, (20)^2, (2,6), (2,8), (2,10), (3,6), (4,4)$	800a2

G	$\mathcal{H}_{\mathbb{Q}}(16, E)$	Label
(2)	$(12)^2, (16)^2, (32), (2,6), (2,8)^2, (2,16), (4,4)$	1470k7
(2)	$(12)^2, (16), (32)^2, (2,6), (2,8), (2,16)^2, (4,8)$	240d1
(2)	$(12)^2, (20)^3, (2,6), (2,8), (2,10), (3,6), (4,4)$	800a3
(3)	$(5,15)$	225b1
(4)	(16)	150c3
(4)	$(2,24), (4,16)$	294c1
(4)	$(16), (2,12)$	33a3
(4)	$(16), (2,24)$	2352v4
(4)	$(16), (4,12)$	40a4
(4)	$(2,12), (2,16), (4,8)$	289a1
(4)	$(16), (2,12), (4,16)$	277440dv7
(4)	$(16), (2,24)^2$	720j8
(4)	$(16), (2,24), (4,12)$	1050k1
(4)	$(16), (2,24), (8,8)$	192c6
(4)	$(48), (2,24), (4,12)$	960o8
(4)	$(2,12), (2,16)^2, (4,8)$	40a3
(4)	$(2,12), (2,16)^2, (4,16)$	72a1
(4)	$(16), (2,12), (2,16)^2$	2880be6
(4)	$(16), (2,12), (2,16), (4,8)$	17a4
(4)	$(16), (2,12), (4,8)^2$	17a1
(4)	$(16), (2,24)^2, (4,12)$	90c1
(4)	$(2,12), (2,16)^3, (4,8)$	63a5
(4)	$(2,12), (2,16)^2, (4,8)^2$	75b8
(4)	$(16), (2,12), (2,16)^2, (4,8)$	1287e5
(4)	$(16), (2,12), (2,16)^2, (8,8)$	3264h6
(4)	$(16), (2,12), (2,16), (2,32), (4,8)$	225c1
(4)	$(16), (2,12), (2,16), (4,8)^2$	144b4
(4)	$(16), (2,24), (2,32)^2, (4,16)$	1470k1
(4)	$(16), (20), (4,20), (6,12), (8,8)$	32a1
(4)	$(24)^2, (2,12), (2,16)^2$	240a6
(4)	$(24)^2, (2,12), (2,16), (4,8)$	240a5
(4)	$(16), (2,12), (2,16)^2, (4,8)^2$	1008k6
(4)	$(24)^2, (2,12), (2,16)^2, (4,8)$	231a1
(4)	$(24)^2, (2,12), (2,16)^2, (4,16)$	24a4
(4)	$(24)^2, (2,12), (2,16)^2, (8,8)$	816h6
(4)	$(24)^2, (2,12), (2,16), (4,8)^2$	24a3
(4)	$(24)^2, (2,24), (4,16)^2, (8,8)$	240d6

G	$\mathcal{H}_{\mathbb{Q}}(16, E)$	Label
(4)	$(24)^2, (32), (2, 12), (2, 16), (4, 8)$	21a4
(4)	$(20), (2, 12), (2, 16)^2, (2, 20), (3, 12), (4, 8)$	64a3
(4)	$(24)^2, (2, 12), (2, 16)^3, (4, 8)$	120a1
(4)	$(24)^2, (2, 12), (2, 16)^2, (4, 8)^2$	120a4
(4)	$(24)^2, (2, 12), (2, 16)^2, (4, 8), (4, 16)$	1680p6
(4)	$(24)^2, (32), (2, 12), (2, 16)^2, (4, 8)$	48a5
(4)	$(24)^2, (32), (2, 12), (2, 16), (2, 32), (4, 8)$	15a7
(4)	$(24)^2, (32), (2, 12), (2, 16), (4, 8)^2$	42a4
(4)	$(24)^2, (32)^2, (2, 12), (2, 16), (4, 8)$	195a1
(4)	$(24)^2, (32)^3, (2, 12), (4, 16)$	1230f4
(4)	$(20), (40), (2, 12), (2, 16)^2, (2, 20), (3, 12), (4, 8)$	32a4
(4)	$(24)^2, (2, 12), (2, 16)^4, (4, 8)$	195a6
(4)	$(24)^2, (2, 12), (2, 16)^4, (8, 8)$	510e6
(4)	$(24)^2, (32)^3, (2, 12), (2, 16), (4, 8)$	510e1
(4)	$(24)^2, (32)^2, (2, 12), (2, 16)^2, (4, 8)^2$	240d7
(4)	$(24)^2, (32)^2, (2, 12), (2, 16)^2, (4, 8), (4, 16)$	210e6
(6)	(24)	14a4
(6)	$(2, 24), (4, 12)$	36a2
(6)	$(24), (2, 24)$	130a2
(6)	$(24), (4, 12)$	20a1
(6)	$(2, 24)^3$	90c7
(6)	$(2, 24)^2, (4, 12)$	30a1
(6)	$(24), (6, 12)^2$	14a1
(6)	$(48), (2, 24), (4, 12)$	90c8
(8)	$(32), (2, 24)$	21a3
(8)	$(32), (2, 24), (4, 16)$	42a1
(8)	$(32), (2, 24), (8, 8)$	48a6
(8)	$(32), (2, 24), (2, 32)^2, (4, 16)$	1230f1
(8)	$(32), (2, 24), (4, 16)^2, (8, 8)$	15a4
(8)	$(48)^2, (2, 24), (2, 32)^2, (4, 16)$	210e1
(10)	$(40), (2, 30)$	66c1
(12)	(48)	90c3
$(2, 2)$	$(2, 8)^2$	960o6
$(2, 2)$	$(2, 12), (8, 8)$	576d2
$(2, 2)$	$(2, 24), (8, 8)$	72a4
$(2, 2)$	$(2, 8)^3$	153c2
$(2, 2)$	$(2, 8)^2, (2, 12)$	33a1

G	$\mathcal{H}_{\mathbb{Q}}(16, E)$	Label
$(2,2)$	$(2,8)^2, (2,24)$	63a2
$(2,2)$	$(2,8)^2, (4,8)$	320a2
$(2,2)$	$(2,8), (2,12), (4,8)$	525b3
$(2,2)$	$(2,8), (2,24)^2$	720j6
$(2,2)$	$(2,12)^2, (8,8)$	3264h3
$(2,2)$	$(2,12), (2,16), (8,8)$	192d2
$(2,2)$	$(2,12), (4,8)^2$	200c2
$(2,2)$	$(2,24)^3$	150c6
$(2,2)$	$(2,8)^3, (4,4)$	120b2
$(2,2)$	$(2,8)^3, (4,12)$	240b2
$(2,2)$	$(2,8)^2, (2,12), (2,16)$	600a3
$(2,2)$	$(2,8)^2, (2,12), (4,8)$	990c2
$(2,2)$	$(2,8)^2, (2,12), (4,16)$	1200j2
$(2,2)$	$(2,8)^2, (2,24), (4,12)$	30a6
$(2,2)$	$(2,8)^2, (2,24), (4,16)$	630c2
$(2,2)$	$(2,8), (2,12), (4,8)^2$	306c3
$(2,2)$	$(2,12)^2, (2,16), (8,8)$	45a4
$(2,2)$	$(2,12)^2, (4,8)^2$	600a2
$(2,2)$	$(2,12)^2, (4,16), (8,8)$	6150n3
$(2,2)$	$(2,12), (2,16)^2, (8,8)$	144b3
$(2,2)$	$(2,12), (4,8)^3$	289a2
$(2,2)$	$(2,8)^2, (2,12), (2,16)^2$	441c2
$(2,2)$	$(2,8)^2, (2,12), (2,16), (4,8)$	525b2
$(2,2)$	$(2,8)^2, (2,12), (2,16), (4,16)$	45a2
$(2,2)$	$(2,8)^2, (2,24), (2,32), (4,16)$	75b2
$(2,2)$	$(2,8), (2,12), (2,16), (4,8)^2$	126b2
$(2,2)$	$(2,10), (2,12), (4,20), (6,6), (8,8)$	64a1
$(2,2)$	$(2,10), (2,12), (4,20), (6,12), (8,8)$	32a2
$(2,2)$	$(2,12)^3, (2,16), (8,8)$	24a2
$(2,2)$	$(2,12)^3, (4,8)^2$	240a2
$(2,2)$	$(2,12)^2, (2,16)^2, (8,8)$	192c3
$(2,2)$	$(2,12)^2, (2,16), (4,8)^2$	63a4
$(2,2)$	$(2,12)^2, (4,8)^3$	17a2
$(2,2)$	$(2,12)^2, (4,8)^2, (4,16)$	225c2
$(2,2)$	$(2,12)^2, (4,16)^2, (8,8)$	1200j4
$(2,2)$	$(2,12), (2,16)^3, (8,8)$	630c5
$(2,2)$	$(2,12), (2,16), (4,8)^3$	147a4

G	$\mathcal{H}_{\mathbb{Q}}(16, E)$	Label
$(2,2)$	$(2,12),(2,24),(4,16)^2,(8,8)$	75b3
$(2,2)$	$(2,8)^2,(2,10),(2,20),(4,8),(6,6)$	800a1
$(2,2)$	$(2,8)^2,(2,12),(2,16)^3$	975a2
$(2,2)$	$(2,8)^2,(2,12),(2,16)^2,(4,8)$	960g2
$(2,2)$	$(2,8)^2,(2,12),(2,16)^2,(4,16)$	6150n2
$(2,2)$	$(2,12)^3,(2,16)^2,(8,8)$	42a3
$(2,2)$	$(2,12)^3,(2,16),(4,8)^2$	21a2
$(2,2)$	$(2,12)^3,(4,8)^3$	231a3
$(2,2)$	$(2,12)^2,(2,16)^3,(8,8)$	75b5
$(2,2)$	$(2,12)^2,(2,16)^2,(4,8)^2$	40a1
$(2,2)$	$(2,12)^2,(2,16),(4,8)^2,(4,16)$	3150bk4
$(2,2)$	$(2,12)^2,(2,24),(4,16)^2,(8,8)$	510e5
$(2,2)$	$(2,12),(2,16)^2,(4,8)^3$	585f5
$(2,2)$	$(2,8)^2,(2,10),(2,12),(2,20),(4,8),(6,6)$	576h2
$(2,2)$	$(2,8)^2,(2,10),(2,12),(2,20),(4,8),(6,12)$	288d1
$(2,2)$	$(2,8)^2,(2,12),(2,16)^3,(4,8)$	975a5
$(2,2)$	$(2,12)^3,(2,16),(4,8)^2,(4,16)$	240d2
$(2,2)$	$(2,12)^2,(2,16)^4,(8,8)$	6720cd4
$(2,2)$	$(2,12)^2,(2,16)^2,(4,8)^2,(4,16)$	130050bu2
$(2,2)$	$(2,12),(2,16)^3,(4,8)^3$	45a5
$(2,2)$	$(2,12)^3,(2,16)^4,(8,8)$	15a2
$(2,2)$	$(2,12)^3,(2,16)^3,(4,8)^2$	195a5
$(2,2)$	$(2,12)^3,(2,16)^2,(4,8)^2,(4,16)$	1230f5
$(2,2)$	$(2,12)^3,(2,16)^5,(8,8)$	210e5
$(2,4)$	$(2,16)^2,(4,12)$	195a3
$(2,4)$	$(2,16)^2,(8,8)$	24a1
$(2,4)$	$(2,16),(2,24),(8,8)$	42a2
$(2,4)$	$(2,16)^2,(4,8)^2$	120a2
$(2,4)$	$(2,16),(2,24),(4,8)^2$	21a1
$(2,4)$	$(2,24),(4,8)^2,(4,16)$	510e2
$(2,4)$	$(2,16)^2,(4,8)^3$	231a2
$(2,4)$	$(2,16)^2,(4,12),(4,16),(8,8)$	510e3
$(2,4)$	$(2,24)^2,(4,16)^2,(8,8)$	1230f2
$(2,4)$	$(2,24),(4,12),(4,16)^2,(8,8)$	15a1
$(2,4)$	$(2,16)^2,(4,12),(4,16)^2,(8,8)$	240d4
$(2,4)$	$(2,16),(2,24),(2,32),(4,8)^2,(4,16)$	15a3
$(2,4)$	$(2,24)^2,(4,12),(4,16)^2,(8,8)$	210e3

G	$\mathcal{H}_{\mathbb{Q}}(16, E)$	Label
$(2, 6)$	$(2, 24)^2$	90c6
$(2, 6)$	$(2, 24)^3, (4, 12)$	30a2
$(2, 8)$	$(2, 32)^2, (4, 16)^2, (8, 8)$	210e2