$\boxed{d = 9}$

$\Phi_{\mathbb{Q}}(9) \supseteq \{(2), (3), (4), (6), (7), (9), (10), (12), (13), (14), (18), (19), (21), (26), (27), (28), (36), (42), (2,2), (2,6), (2,14), (2,18)\}$

G	$\Phi_{\mathbb{Q}}(9, G) \setminus \{G\} \supseteq$
()	$\{(2), (3), (4), (6), (7), (9), (12), (13), (14), (19), (21), (26), (28), (2,2), (2,6), (2,14)\}$
(2)	$\{(6), (14)\}$
(3)	$\{(6), (9), (12), (18), (21), (27), (42), (2,6), (2,18)\}$
(4)	$\{(12)\}$
(5)	$\{(10)\}$
(6)	$\{(18)\}$
(7)	$\{(14)\}$
(8)	$\{\}$
(9)	$\{(18), (27)\}$
(10)	$\{\}$
(12)	$\{(36)\}$
(2,2)	$\{(2,6)\}$
(2,4)	$\{\}$
(2,6)	$\{(2,18)\}$
(2,8)	$\{\}$

$h_{\mathbb{Q}}(9) = 6$
Number of configurations: 34
Maximun conductor to obtain all the configurations: 3969

G	$\mathcal{H}_{\mathbb{Q}}(9,E)$	Label
()	(2)	11a2
()	(2, 2)	196a1
()	(2, 14)	1922c1
()	(4)	338b2
()	(6)	108a2
()	(2), (7)	2450ba1
()	(2), (19)	361a1
()	(2), (3), (6)	19a2
()	(2), (7), (14)	294a1
()	(2), (13), (26)	147b1
()	(3), (2, 2), (2, 6)	196b2
()	(3), (4), (12)	162d2
()	(4), (7), (28)	338b1
()	(7), (2, 2), (2, 14)	3969a1
()	(2), (3), (6), (9)	54b2
()	(2), (3), (6), (7), (14), (21)	162b2
(2)	(6)	14a3
(2)	(14)	49a3
(3)	(2, 6), (2, 18)	196b1
(3)	(6), (9)	19a1
(3)	(6), (18)	108a1
(3)	(9), (2, 6)	324a1
(3)	(9), (12)	162d1
(3)	(6), (9), (18)	19a3
(3)	(6), (9), (18), (27)	27a4
(3)	(6), (9), (21), (42)	162b1
(4)	(12)	90c1
(5)	(10)	11a1
(6)	(18)	14a1
(7)	(14)	26b1
(9)	(18), (27)	54b3
(12)	(36)	90c3
(2, 2)	(2, 6)	30a6
(2, 6)	(2, 18)	30a2