

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072920\
 Data File : VU039709.D
 Acq On : 29 Jul 2020 17:54
 Operator : SY/MD
 Sample : L3319-07
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WS

Quant Time: Jul 30 09:55:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U072920DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Thu Jul 30 01:45:12 2020
 Response via : Initial Calibration

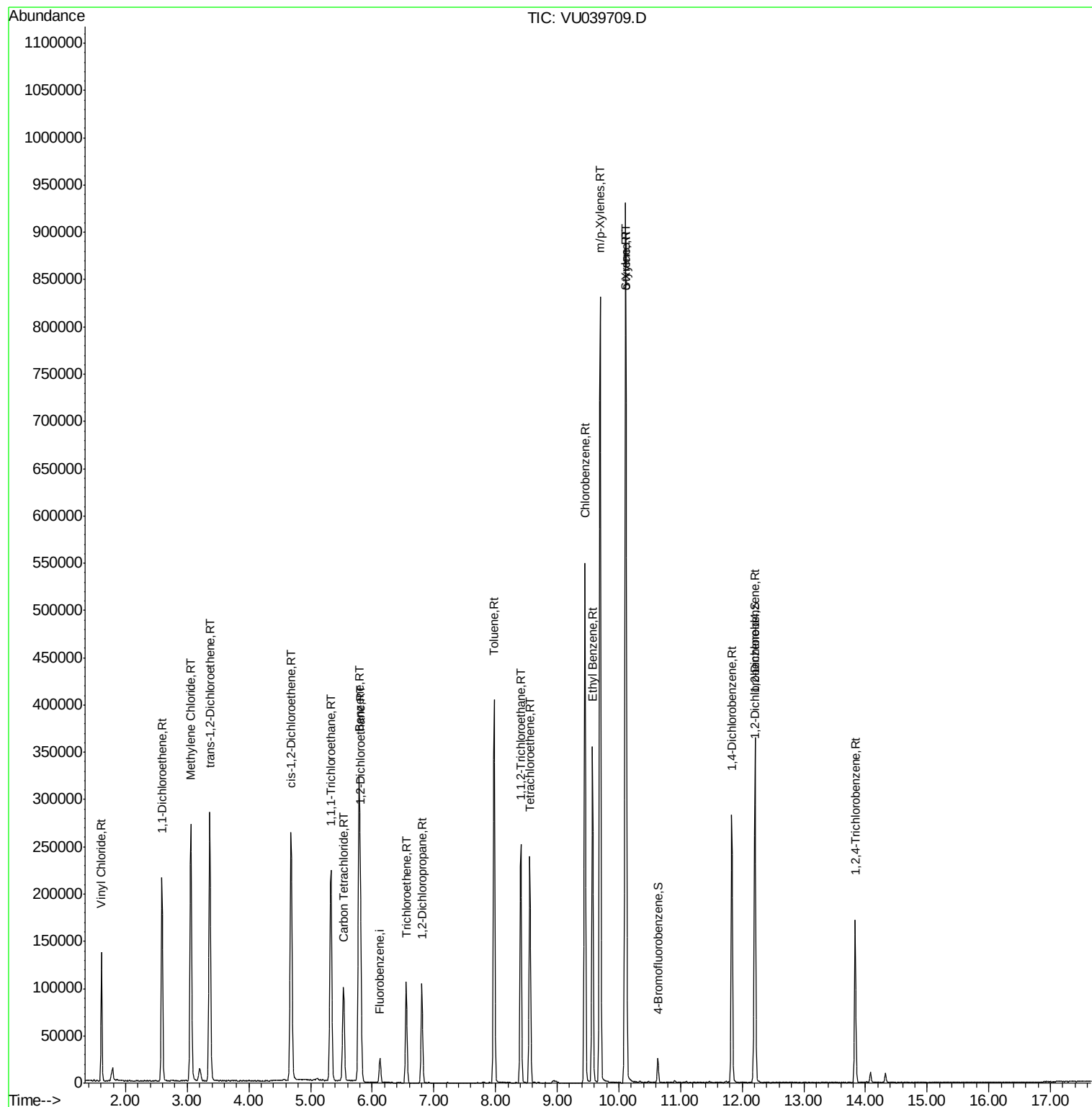
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	6.12	96	21364	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.63	95	8361	1.00	ug/l	0.00
Spiked Amount 1.000			Recovery	=	100.00%	
68) 1,2-Dichlorobenzene-d4	12.19	152	8144	1.00	ug/l	0.00
Spiked Amount 1.000			Recovery	=	100.00%	
Target Compounds					Ovalue	
4) Vinyl Chloride	1.61	62	89107	10.484	ug/l	98
9) 1,1-Dichloroethene	2.59	96	61614	10.379	ug/l	98
15) Methylene Chloride	3.06	84	108407	13.101	ug/l	100
16) trans-1,2-Dichloroethene	3.37	96	100928	14.955	ug/l	97
22) cis-1,2-Dichloroethene	4.68	96	112964	15.529	ug/l	86
28) 1,1,1-Trichloroethane	5.33	97	147958	13.184	ug/l	99
30) Carbon Tetrachloride	5.53	117	59398	6.473	ug/l	97
35) Benzene	5.79	78	259228	9.698	ug/l	99
36) 1,2-Dichloroethane	5.81	62	134565	13.429	ug/l	100
37) Trichloroethene	6.55	130	31006	5.070	ug/l	96
38) 1,2-Dichloropropane	6.81	63	36376	4.937	ug/l	100
49) Toluene	7.98	92	157215	9.881	ug/l	99
52) 1,1,2-Trichloroethane	8.41	97	69542	13.500	ug/l	99
58) Tetrachloroethene	8.56	164	44005	8.219	ug/l	98
59) Chlorobenzene	9.45	112	257124	15.627	ug/l	99
63) Ethyl Benzene	9.57	91	235129	7.974	ug/l	99
64) m/p-Xylenes	9.70	106	221589	19.234	ug/l	100
65) o-Xylene	10.10	106	103204	9.435	ug/l	97
66) Styrene	10.11	104	321682	17.162	ug/l	96
83) 1,4-Dichlorobenzene	11.83	146	99425	6.922	ug/l	100
85) 1,2-Dichlorobenzene	12.21	146	125802	9.140	ug/l	99
87) 1,2,4-Trichlorobenzene	13.83	180	45271	5.259	ug/l	99
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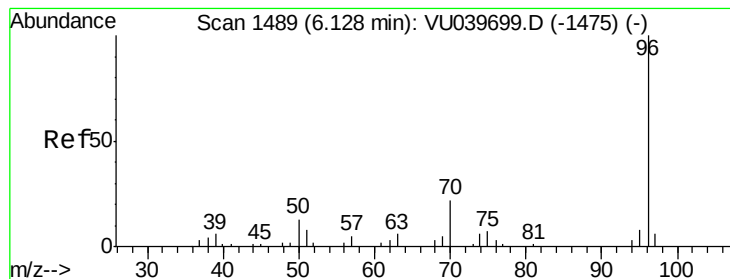
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 6.12 min Scan# 1488

Delta R.T. -0.00 min

Lab File: VU039709.D

Acq: 29 Jul 2020 17:54

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WS

Tot Ion: 96 Resp: 21364

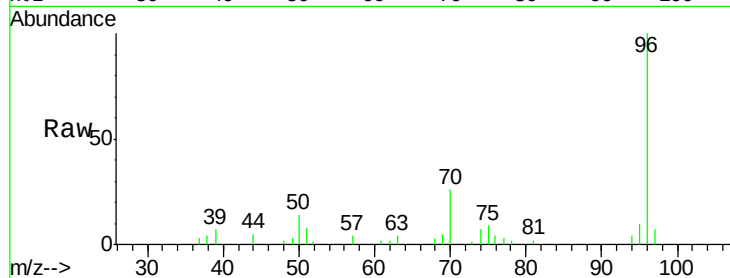
Ion Ratio Lower Upper

96 100

70 22.8 16.3 24.5

95 9.4 6.8 10.2

97 0.0 0.0 0.0

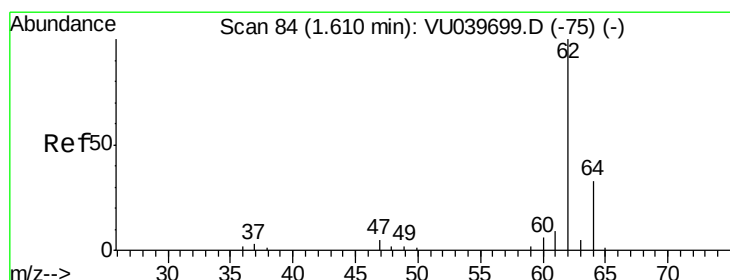
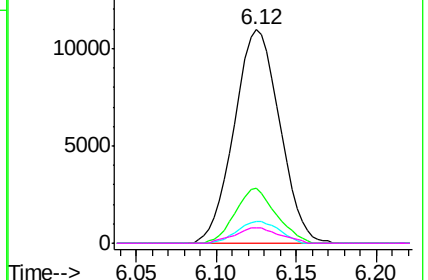
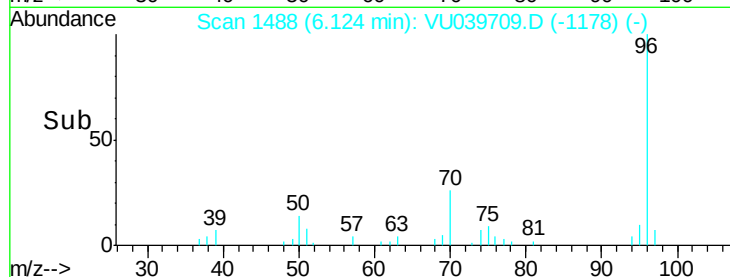


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0



#4

Vinyl Chloride

Concen: 10.484 ug/l

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU039709.D

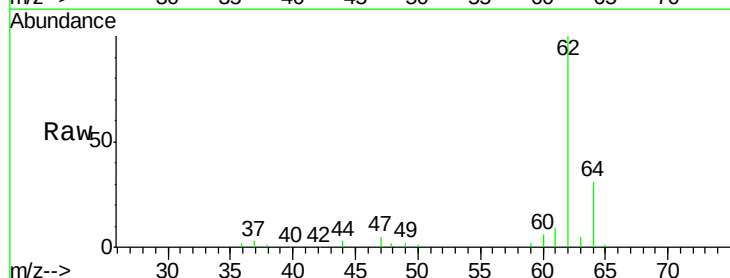
Acq: 29 Jul 2020 17:54

Tgt Ion: 62 Resp: 89107

Ion Ratio Lower Upper

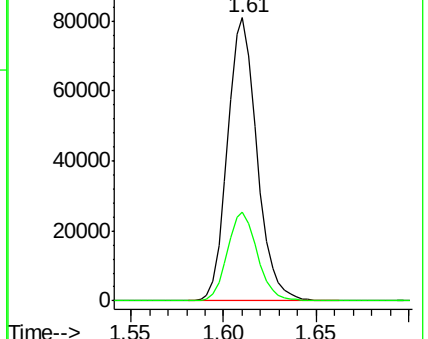
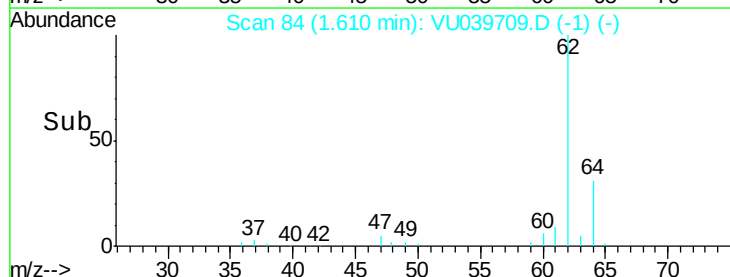
62 100

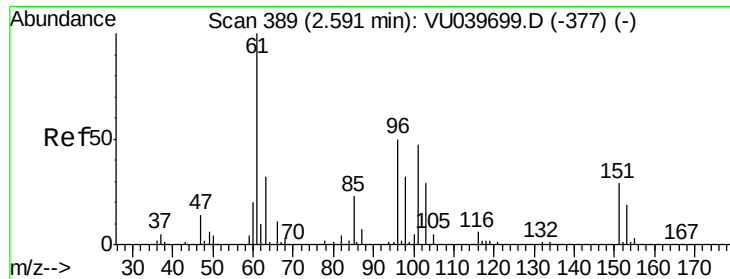
64 31.4 26.0 39.0



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0





#9

1,1-Dichloroethene

Concen: 10.379 ug/l

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU039709.D

Acq: 29 Jul 2020 17:54

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WS

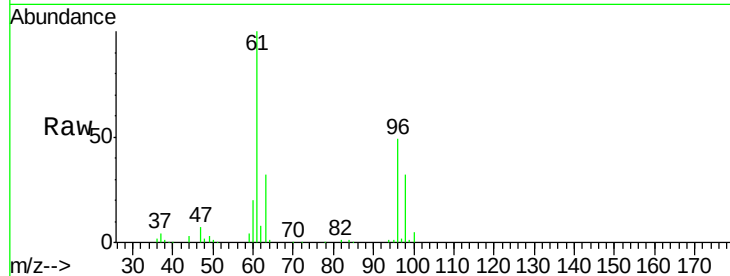
Tot Ion: 96 Resp: 61614

Ion Ratio Lower Upper

96 100

61 204.8 0.0 604.5

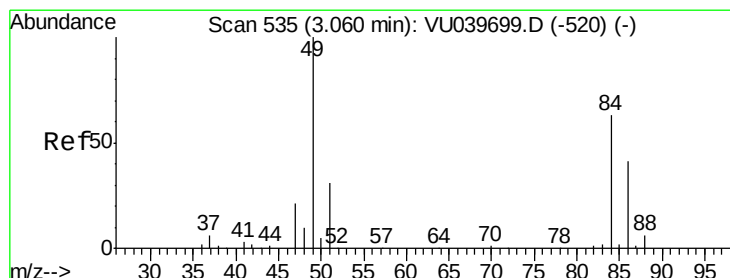
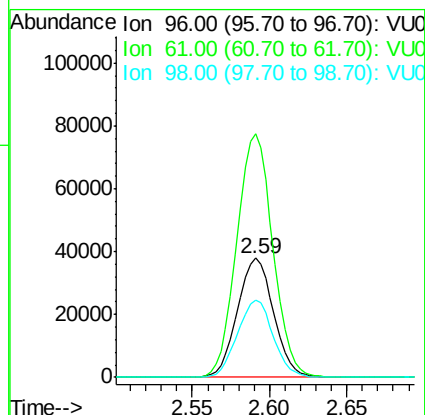
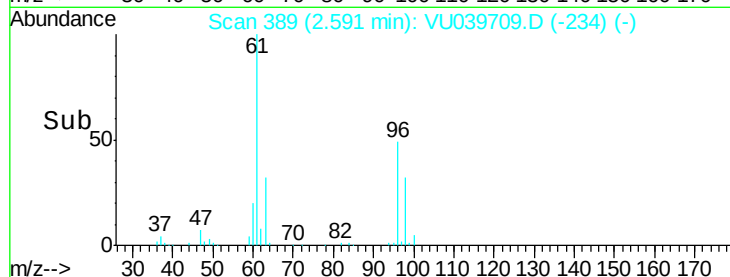
98 65.3 0.0 127.2



Abundance Ion 96.00 (95.70 to 96.70): VU039709.D (-234) (-)

Ion 61.00 (60.70 to 61.70): VU039709.D (-234) (-)

Ion 98.00 (97.70 to 98.70): VU039709.D (-234) (-)



#15

Methylene Chloride

Concen: 13.101 ug/l

RT: 3.06 min Scan# 534

Delta R.T. -0.00 min

Lab File: VU039709.D

Acq: 29 Jul 2020 17:54

Tgt Ion: 84 Resp: 108407

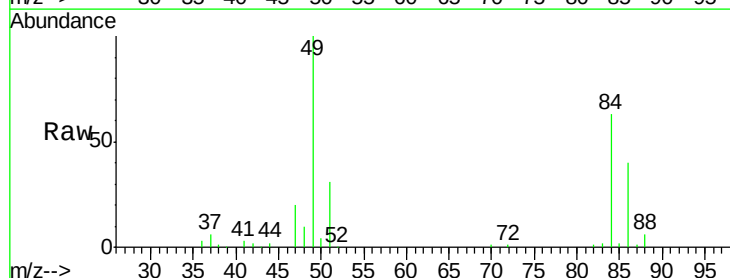
Ion Ratio Lower Upper

84 100

49 158.5 126.8 190.2

51 48.5 0.0 97.2

86 63.1 51.4 77.2

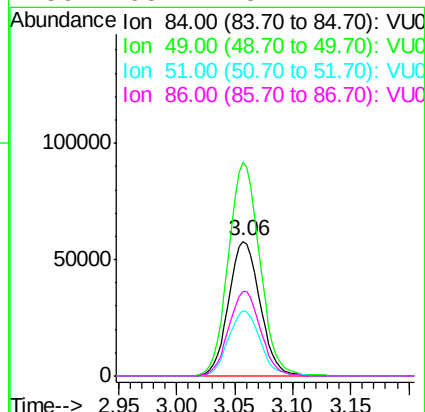
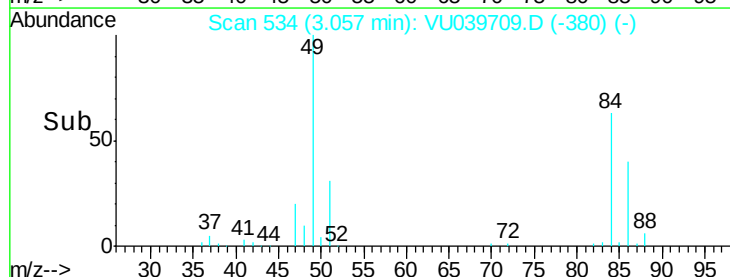


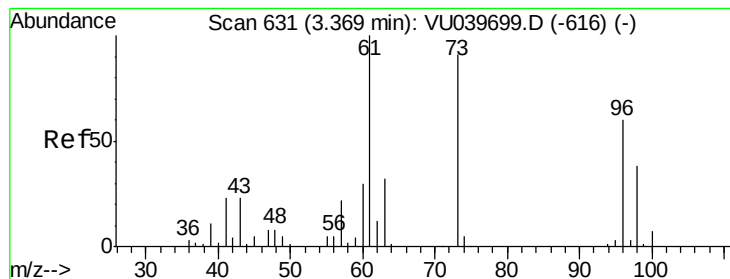
Abundance Ion 84.00 (83.70 to 84.70): VU039709.D (-380) (-)

Ion 49.00 (48.70 to 49.70): VU039709.D (-380) (-)

Ion 51.00 (50.70 to 51.70): VU039709.D (-380) (-)

Ion 86.00 (85.70 to 86.70): VU039709.D (-380) (-)





#16

trans-1,2-Dichloroethene

Concen: 14.955 ug/l

RT: 3.37 min Scan# 630

Delta R.T. -0.00 min

Lab File: VU039709.D

Acq: 29 Jul 2020 17:54

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WS

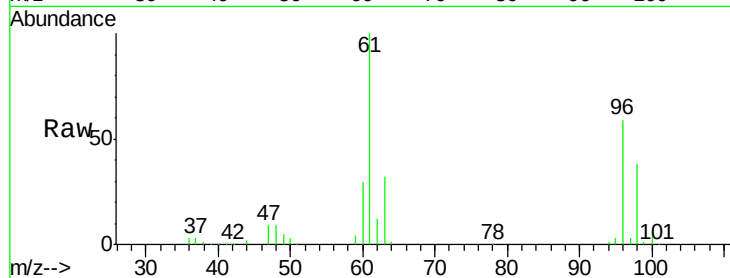
Tot Ion: 96 Resp: 100928

Ion Ratio Lower Upper

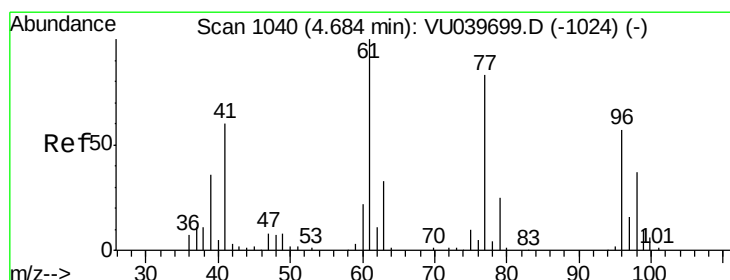
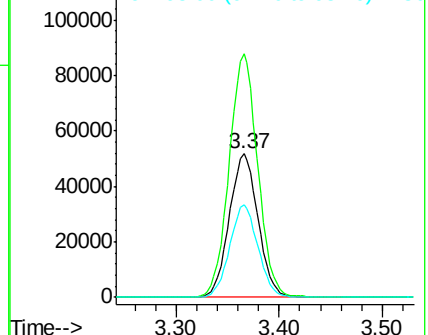
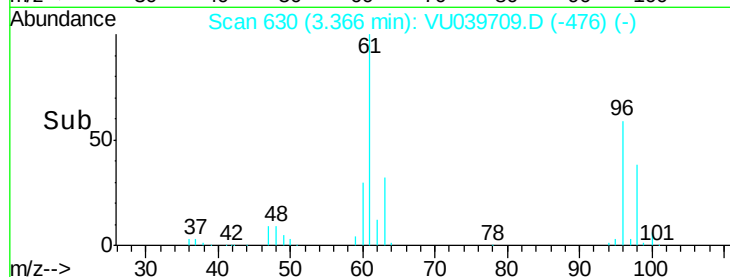
96 100

61 169.6 132.6 199.0

98 64.4 50.2 75.2



Abundance Ion 96.00 (95.70 to 96.70): VU039709.D (-476) (-)



#22

cis-1,2-Dichloroethene

Concen: 15.529 ug/l

RT: 4.68 min Scan# 1040

Delta R.T. -0.00 min

Lab File: VU039709.D

Acq: 29 Jul 2020 17:54

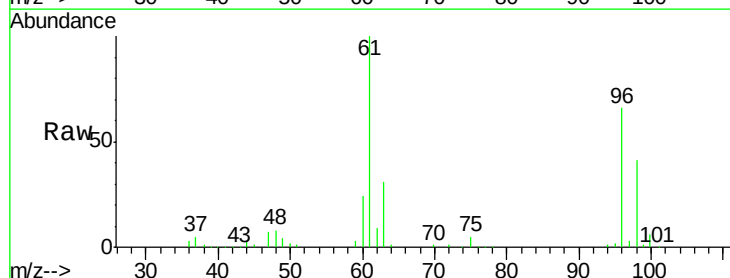
Tgt Ion: 96 Resp: 112964

Ion Ratio Lower Upper

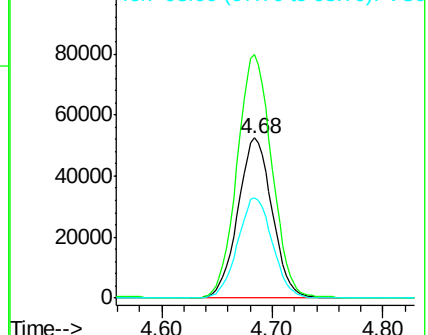
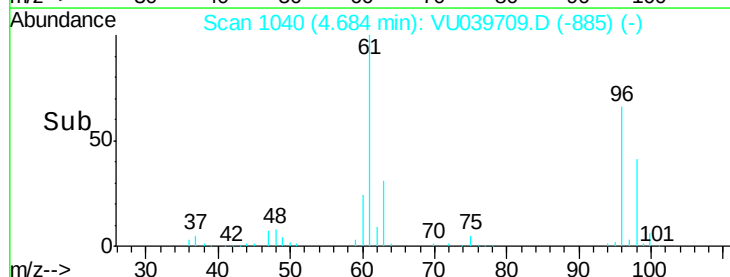
96 100

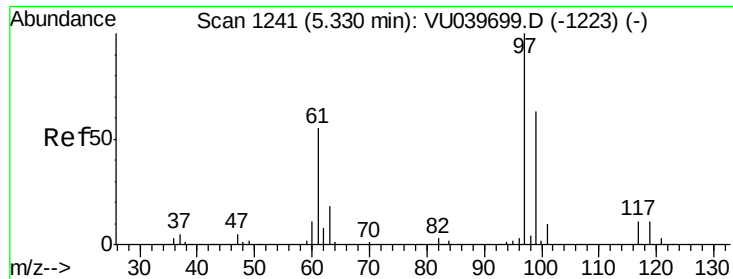
61 154.8 0.0 451.3

98 63.8 32.6 98.0



Abundance Ion 96.00 (95.70 to 96.70): VU039709.D (-885) (-)

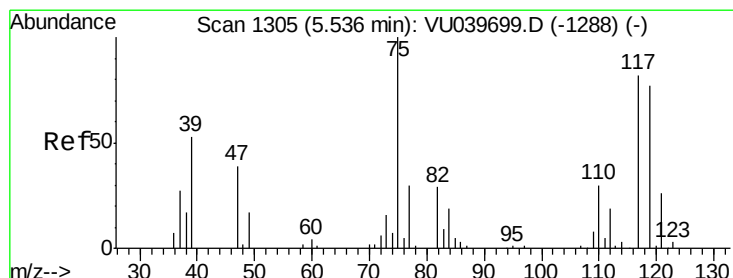
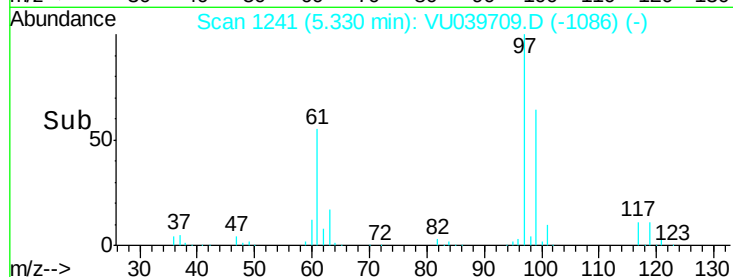
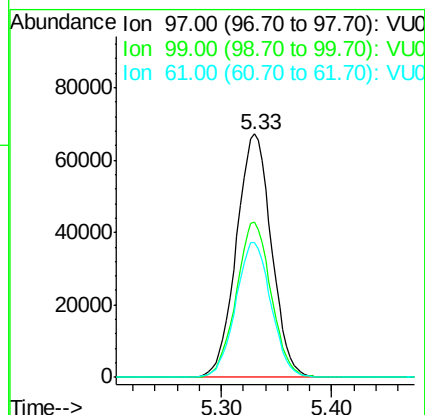
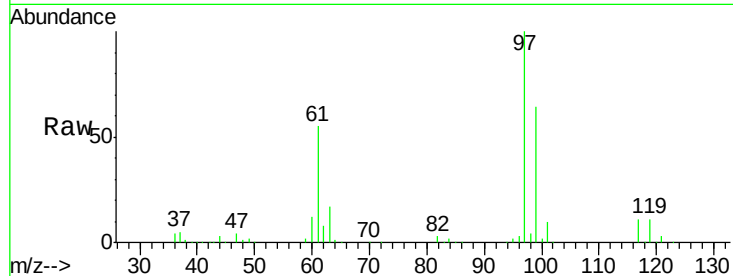




#28
 1,1,1-Trichloroethane
 Concen: 13.184 ug/l
 RT: 5.33 min Scan# 1241
 Delta R.T. -0.00 min
 Lab File: VU039709.D
 Acq: 29 Jul 2020 17:54

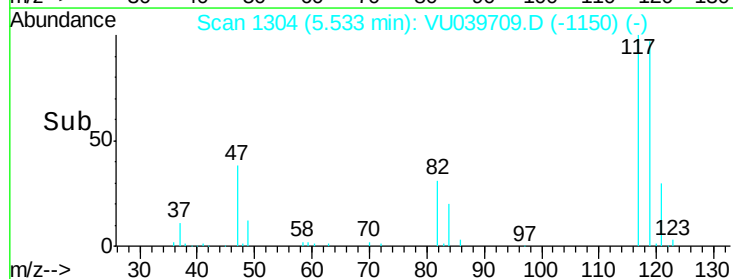
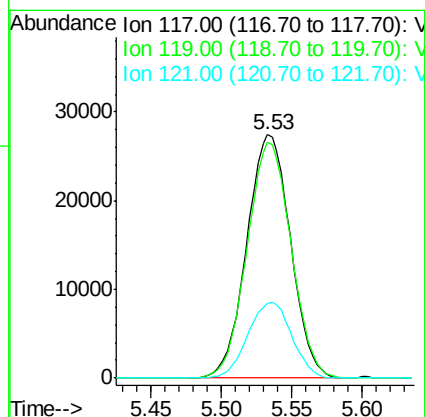
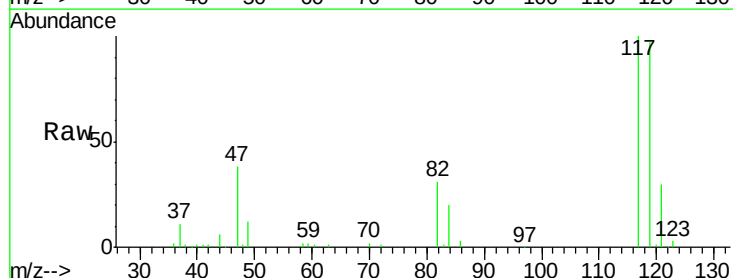
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WS

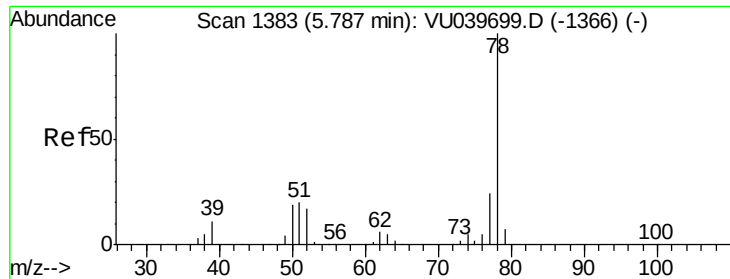
Tot Ion: 97 Resp: 147958
 Ion Ratio Lower Upper
 97 100
 99 63.4 32.2 96.6
 61 55.6 28.3 85.0



#30
 Carbon Tetrachloride
 Concen: 6.473 ug/l
 RT: 5.53 min Scan# 1304
 Delta R.T. -0.00 min
 Lab File: VU039709.D
 Acq: 29 Jul 2020 17:54

Tgt Ion: 117 Resp: 59398
 Ion Ratio Lower Upper
 117 100
 119 96.8 75.2 112.8
 121 30.5 25.4 38.2





#35

Benzene

Concen: 9.698 ug/l

RT: 5.79 min Scan# 1383

Delta R.T. -0.00 min

Lab File: VU039709.D

Acq: 29 Jul 2020 17:54

Instrument :

MSVOA_U

ClientSampleId :

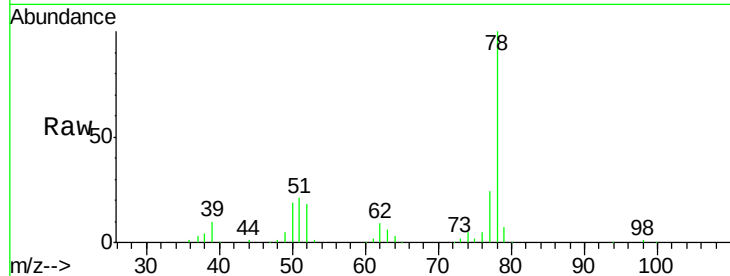
PT-RVOA-WS

Tot Ion: 78 Resp: 259228

Ion Ratio Lower Upper

78 100

77 24.5 19.2 28.8



Abundance Ion 78.10 (77.80 to 78.80): VU039699.D (-1366) (-)

Ion 77.00 (76.70 to 77.70): VU039699.D (-1366) (-)

5.79

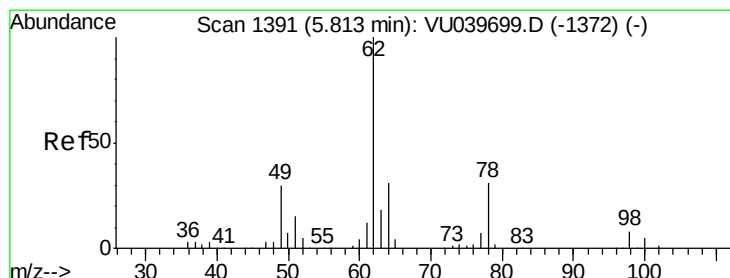
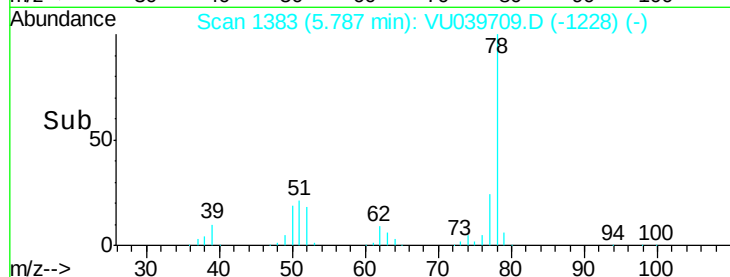
150000

100000

50000

0

Time-->



#36

1,2-Dichloroethane

Concen: 13.429 ug/l

RT: 5.81 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VU039709.D

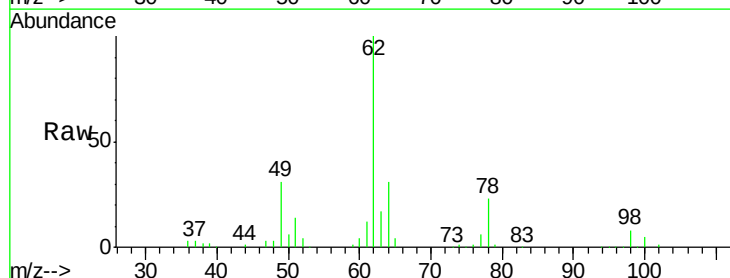
Acq: 29 Jul 2020 17:54

Tgt Ion: 62 Resp: 134565

Ion Ratio Lower Upper

62 100

98 7.8 6.2 9.2



Abundance Ion 62.00 (61.70 to 62.70): VU039699.D (-1372) (-)

Ion 98.00 (97.70 to 98.70): VU039699.D (-1372) (-)

5.81

80000

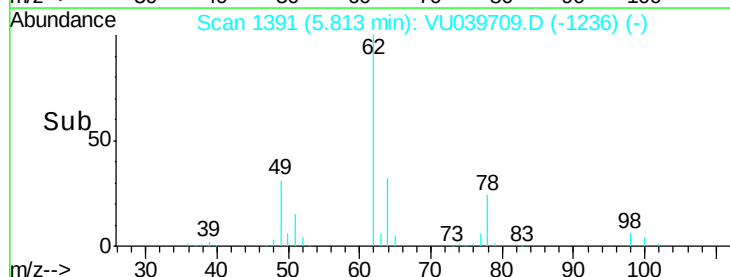
60000

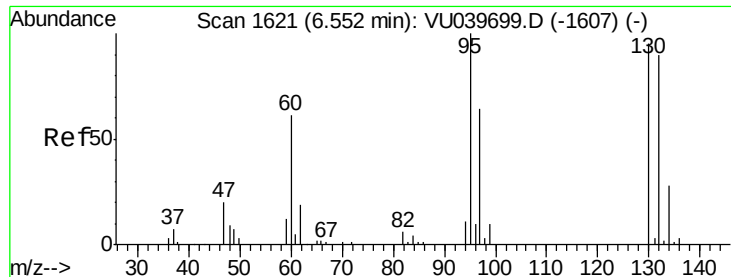
40000

20000

0

Time-->

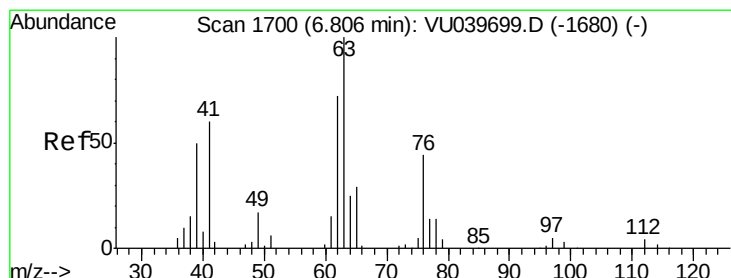
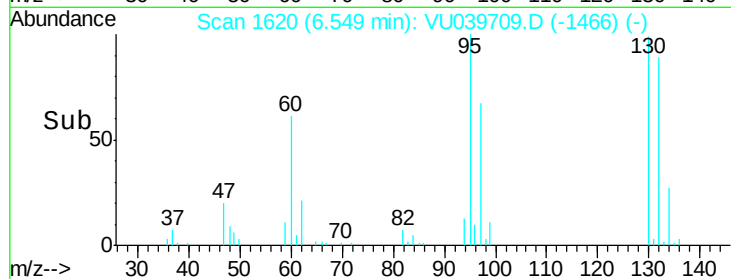
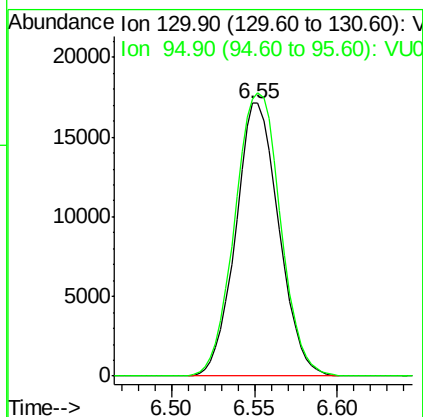
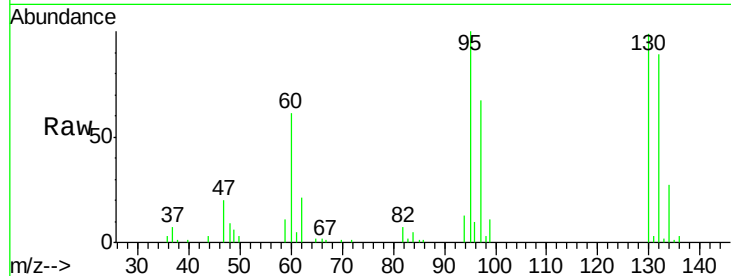




#37
 Trichloroethene
 Concen: 5.070 ug/l
 RT: 6.55 min Scan# 1620
 Delta R.T. -0.00 min
 Lab File: VU039709.D
 Acq: 29 Jul 2020 17:54

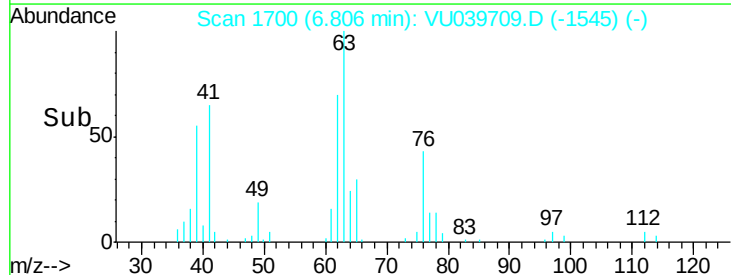
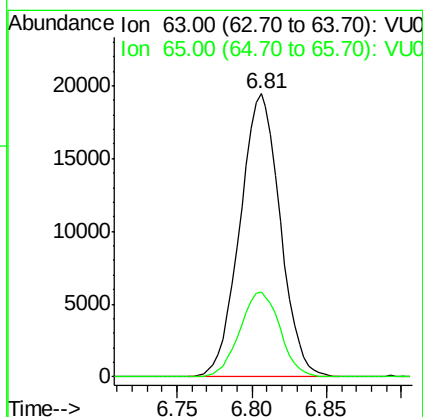
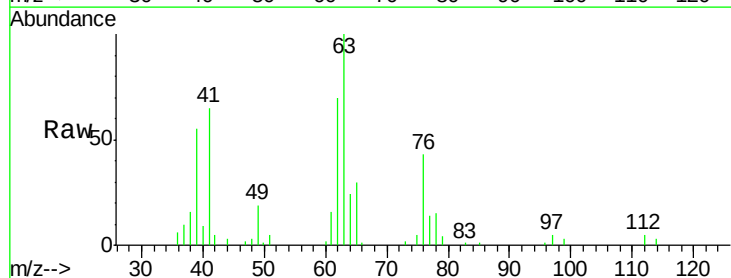
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WS

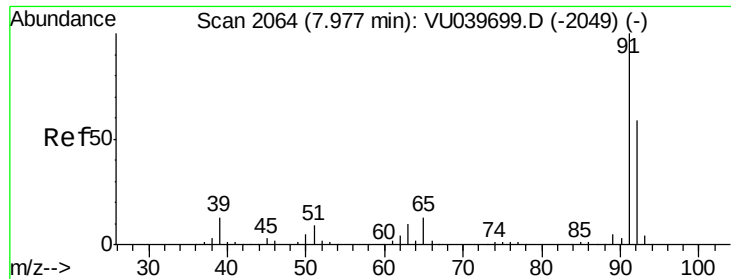
Tot Ion:130 Resp: 31006
 Ion Ratio Lower Upper
 130 100
 95 101.5 84.3 126.5



#38
 1,2-Dichloropropane
 Concen: 4.937 ug/l
 RT: 6.81 min Scan# 1700
 Delta R.T. -0.00 min
 Lab File: VU039709.D
 Acq: 29 Jul 2020 17:54

Tgt Ion: 63 Resp: 36376
 Ion Ratio Lower Upper
 63 100
 65 29.9 23.8 35.6





#49

Toluene

Concen: 9.881 ug/l

RT: 7.98 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VU039709.D

Acq: 29 Jul 2020 17:54

Instrument :

MSVOA_U

ClientSampleId :

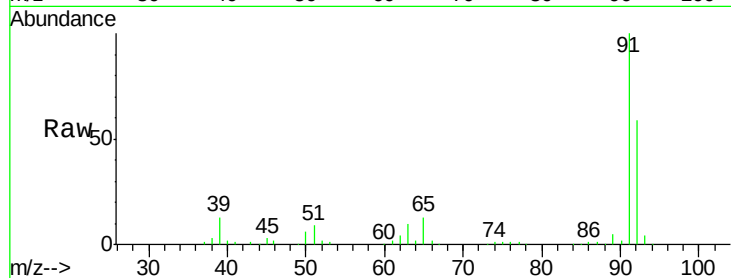
PT-RVOA-WS

Tot Ion: 92 Resp: 157215

Ion Ratio Lower Upper

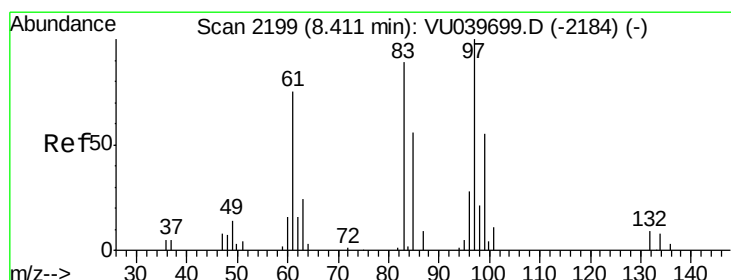
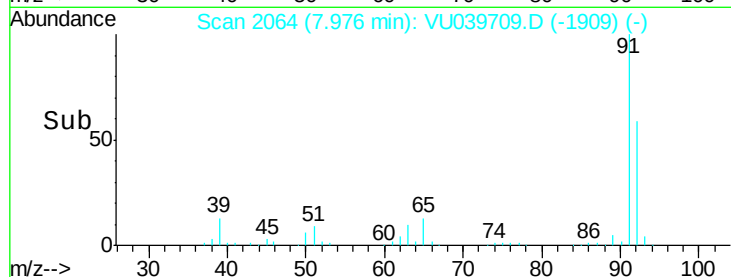
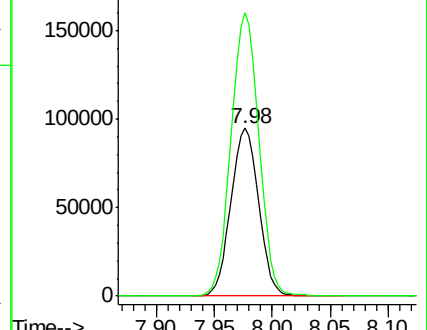
92 100

91 168.4 136.1 204.1



Abundance Ion 92.00 (91.70 to 92.70): VU039699.D (-2049) (-)

Ion 91.00 (90.70 to 91.70): VU039699.D (-2049) (-)



#52

1,1,2-Trichloroethane

Concen: 13.500 ug/l

RT: 8.41 min Scan# 2199

Delta R.T. -0.00 min

Lab File: VU039709.D

Acq: 29 Jul 2020 17:54

Tgt Ion: 97 Resp: 69542

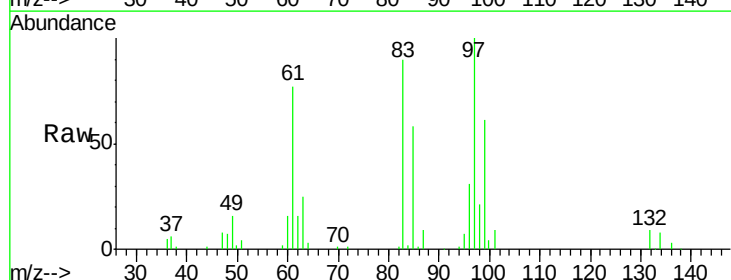
Ion Ratio Lower Upper

97 100

83 89.9 71.3 106.9

85 57.7 45.4 68.2

99 61.4 49.4 74.0

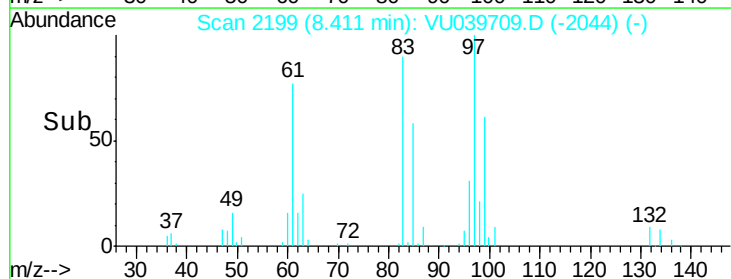
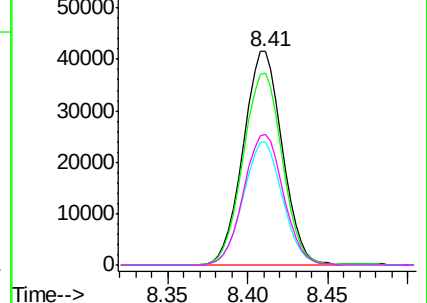


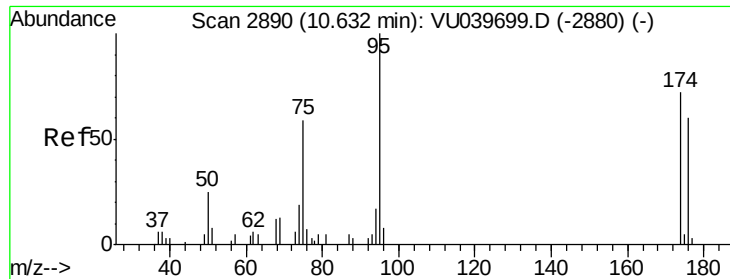
Abundance Ion 97.00 (96.70 to 97.70): VU039699.D (-2184) (-)

Ion 82.95 (82.65 to 83.65): VU039699.D (-2184) (-)

Ion 84.95 (84.65 to 85.65): VU039699.D (-2184) (-)

Ion 98.95 (98.65 to 99.65): VU039699.D (-2184) (-)

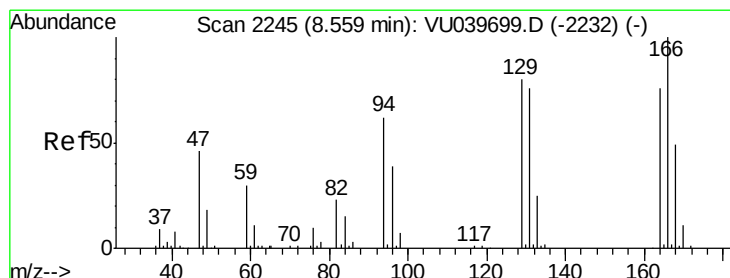
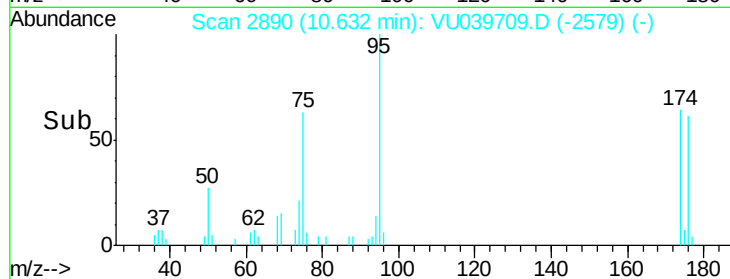
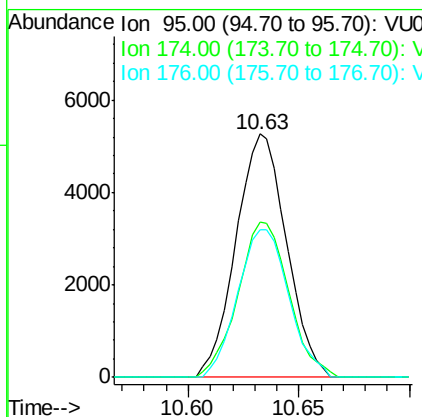
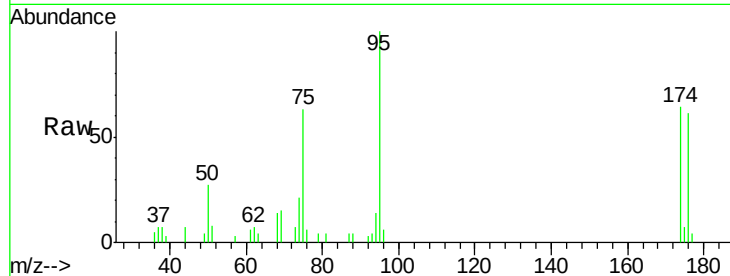




#57
 4-Bromofluorobenzene
 Concen: 1.001 ug/l
 RT: 10.63 min Scan# 2890
 Delta R.T. -0.00 min
 Lab File: VU039709.D
 Acq: 29 Jul 2020 17:54

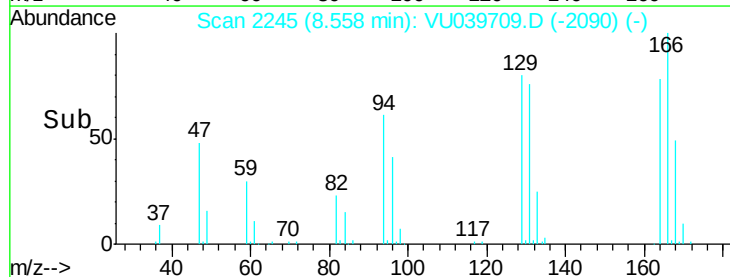
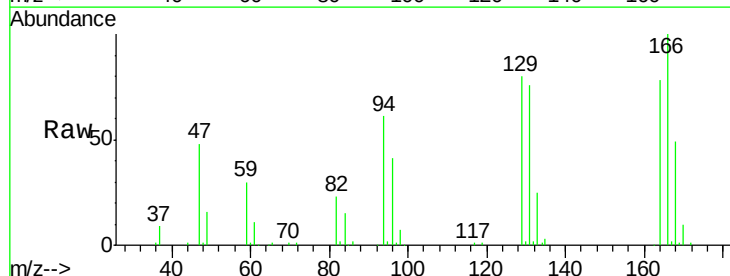
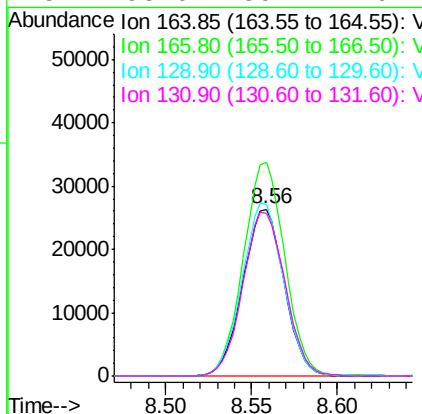
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WS

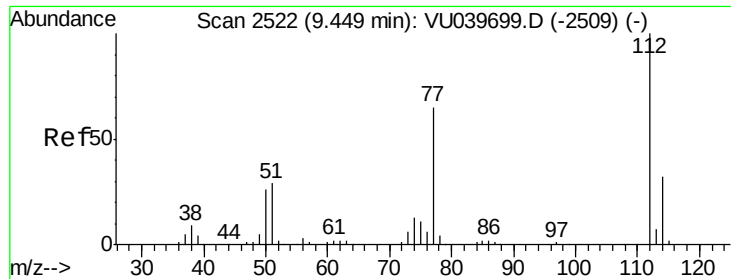
Tot Ion: 95 Resp: 8361
 Ion Ratio Lower Upper
 95 100
 174 64.0 57.0 85.4
 176 61.4 50.2 75.2



#58
 Tetrachloroethene
 Concen: 8.219 ug/l
 RT: 8.56 min Scan# 2245
 Delta R.T. -0.00 min
 Lab File: VU039709.D
 Acq: 29 Jul 2020 17:54

Tgt Ion: 164 Resp: 44005
 Ion Ratio Lower Upper
 164 100
 166 128.3 104.8 157.2
 129 102.7 84.1 126.1
 131 98.0 80.1 120.1





#59

Chlorobenzene

Concen: 15.627 ug/l

RT: 9.45 min Scan# 2522

Delta R.T. -0.00 min

Lab File: VU039709.D

Acq: 29 Jul 2020 17:54

Instrument :

MSVOA_U

ClientSampleId :

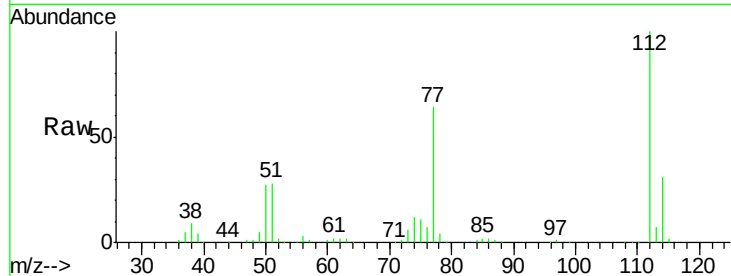
PT-RVOA-WS

Tot Ion:112 Resp: 257124

Ion Ratio Lower Upper

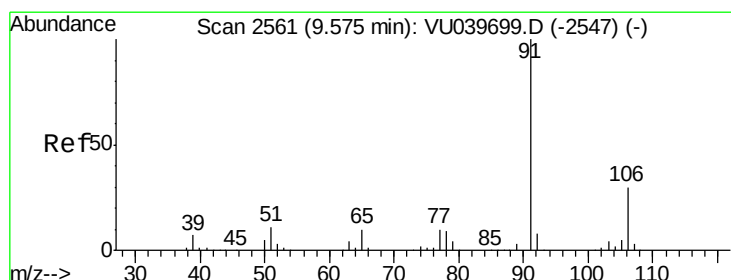
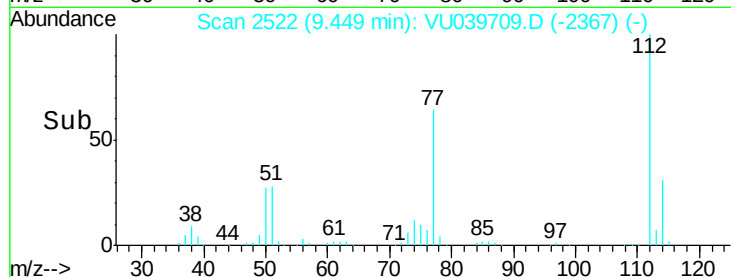
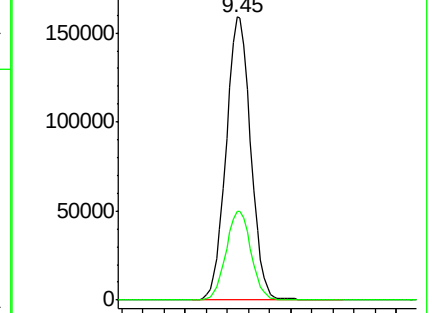
112 100

114 31.5 25.8 38.6



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#63

Ethyl Benzene

Concen: 7.974 ug/l

RT: 9.57 min Scan# 2561

Delta R.T. -0.00 min

Lab File: VU039709.D

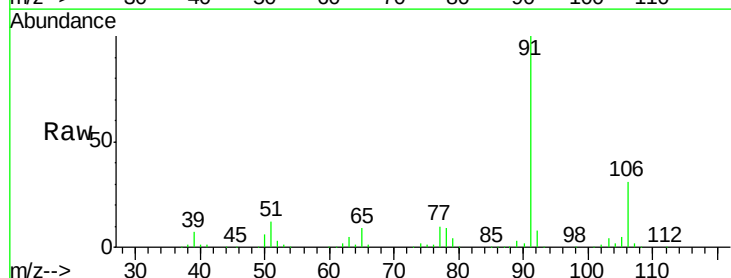
Acq: 29 Jul 2020 17:54

Tgt Ion: 91 Resp: 235129

Ion Ratio Lower Upper

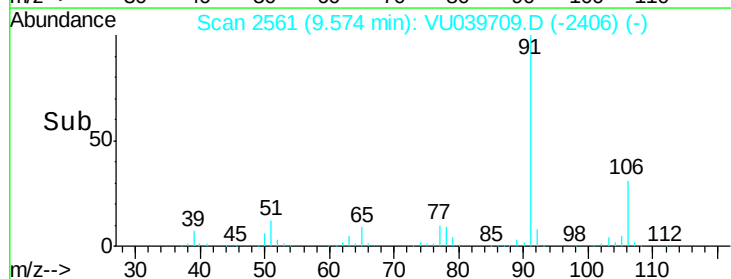
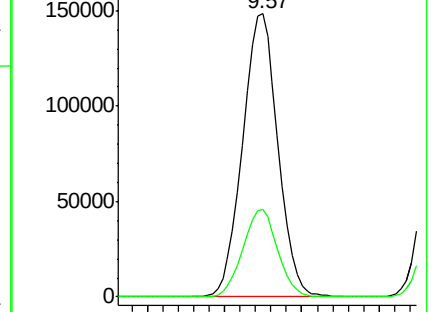
91 100

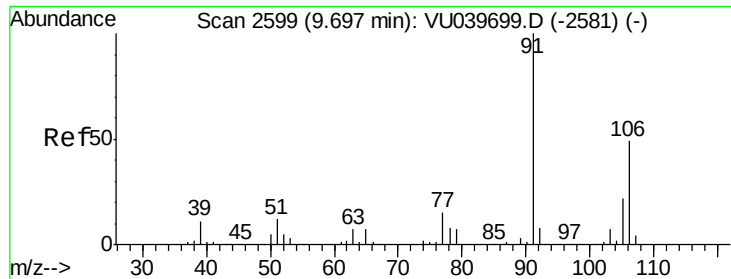
106 31.0 24.2 36.4



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V





#64

m/p-Xylenes

Concen: 19.234 ug/l

RT: 9.70 min Scan# 2599

Delta R.T. -0.00 min

Lab File: VU039709.D

Acq: 29 Jul 2020 17:54

Instrument :

MSVOA_U

ClientSampleId :

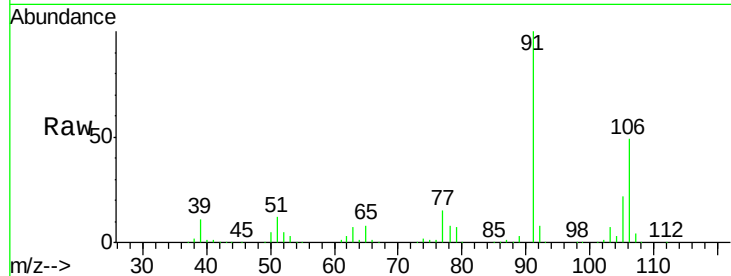
PT-RVOA-WS

Tot Ion:106 Resp: 221589

Ion Ratio Lower Upper

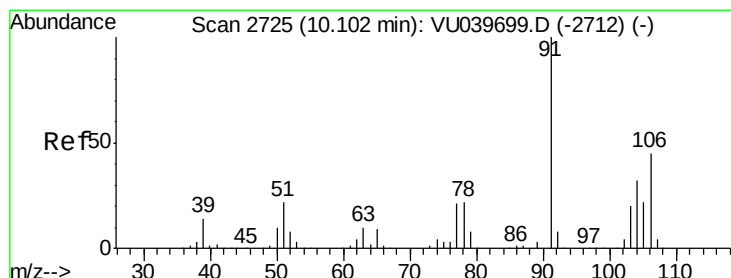
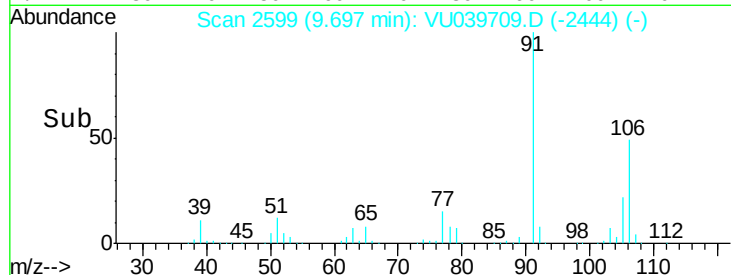
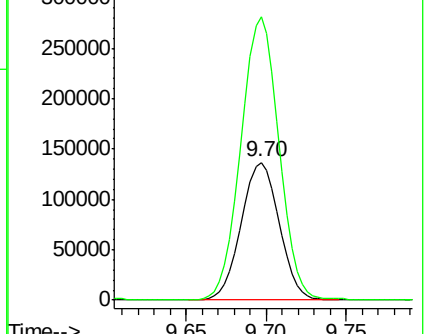
106 100

91 204.5 163.9 245.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#65

o-Xylene

Concen: 9.435 ug/l

RT: 10.10 min Scan# 2725

Delta R.T. -0.00 min

Lab File: VU039709.D

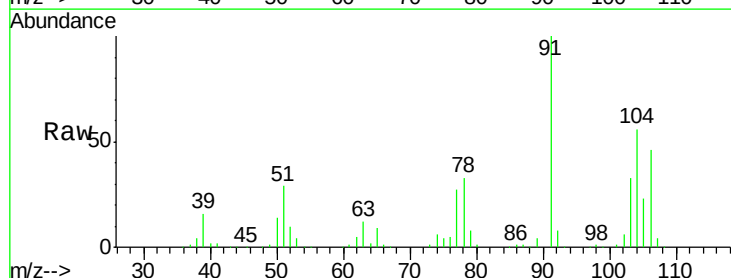
Acq: 29 Jul 2020 17:54

Tgt Ion:106 Resp: 103204

Ion Ratio Lower Upper

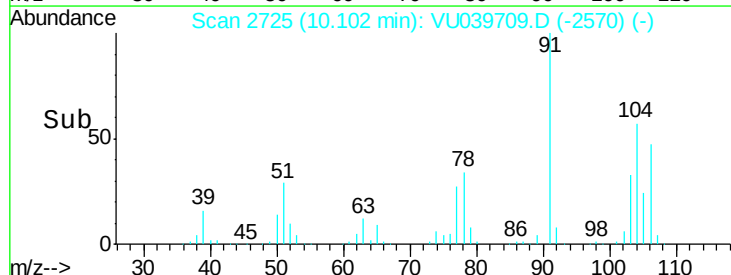
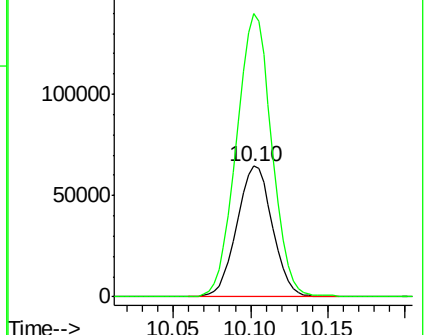
106 100

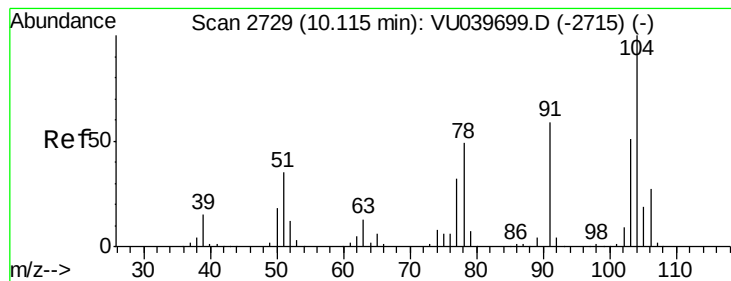
91 215.1 110.3 331.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#66

Stvrene

Concen: 17.162 ug/l

RT: 10.11 min Scan# 2729

Delta R.T. -0.00 min

Lab File: VU039709.D

Acq: 29 Jul 2020 17:54

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WS

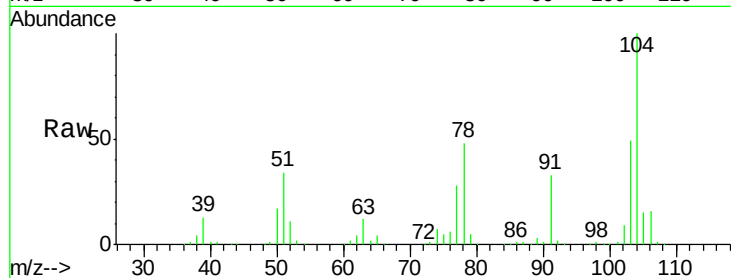
Tot Ion:104 Resp: 321682

Ion Ratio Lower Upper

104 100

78 50.2 42.2 63.4

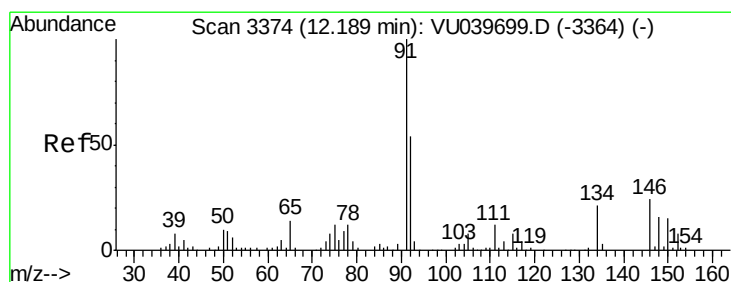
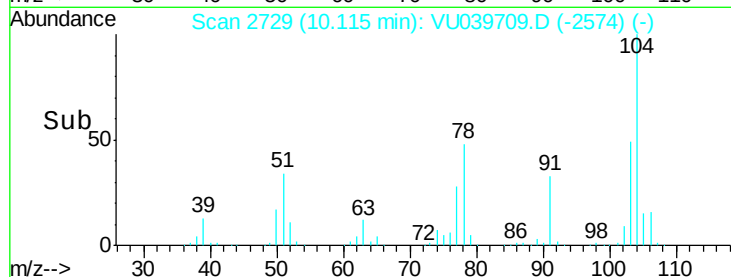
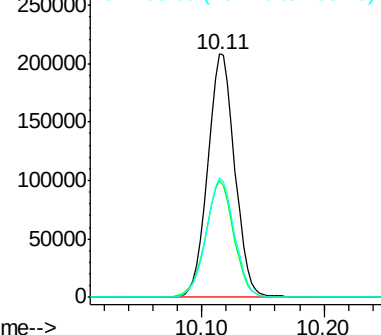
103 51.3 43.4 65.2



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

Ion 103.00 (102.70 to 103.70): V



#68

1,2-Dichlorobenzene-d4

Concen: 0.997 ug/l

RT: 12.19 min Scan# 3375

Delta R.T. 0.00 min

Lab File: VU039709.D

Acq: 29 Jul 2020 17:54

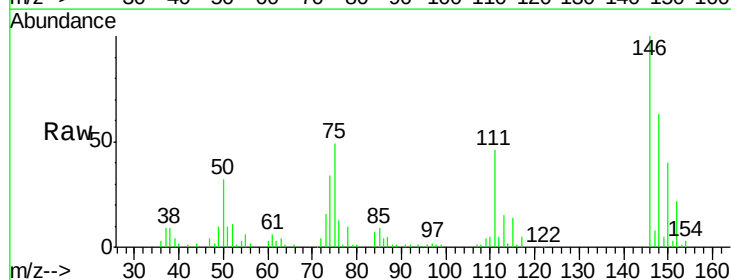
Tgt Ion:152 Resp: 8144

Ion Ratio Lower Upper

152 100

115 66.5 0.0 302.4

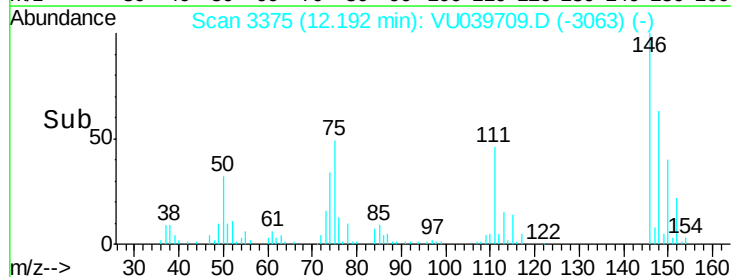
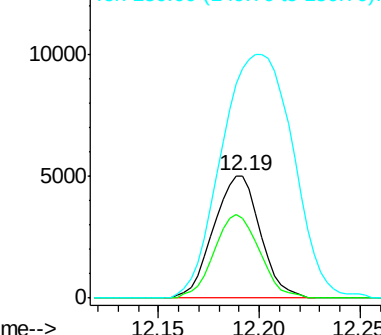
150 304.1 0.0 645.8

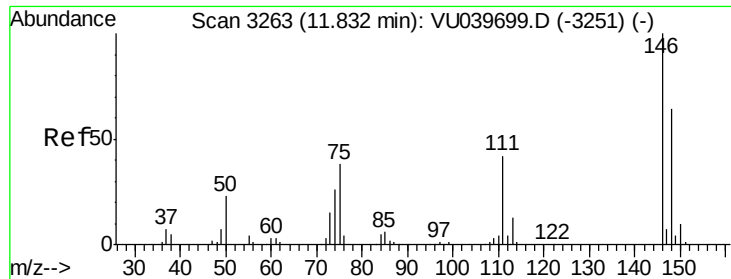


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V

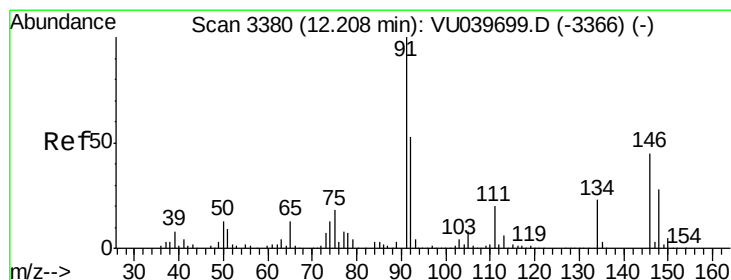
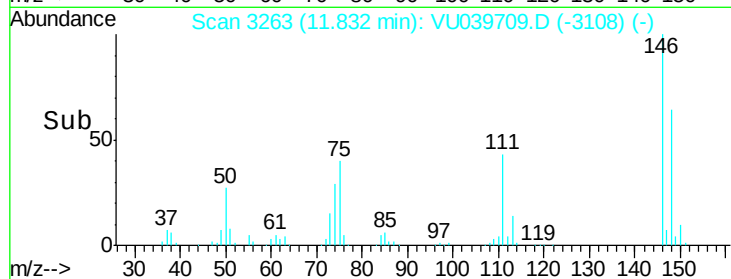
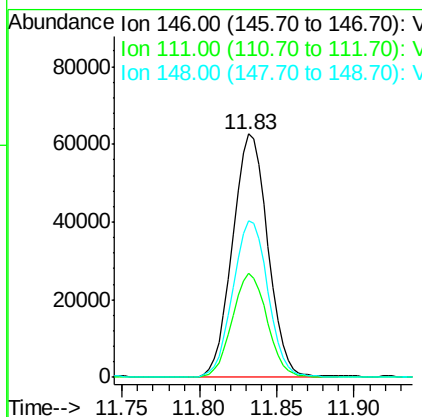
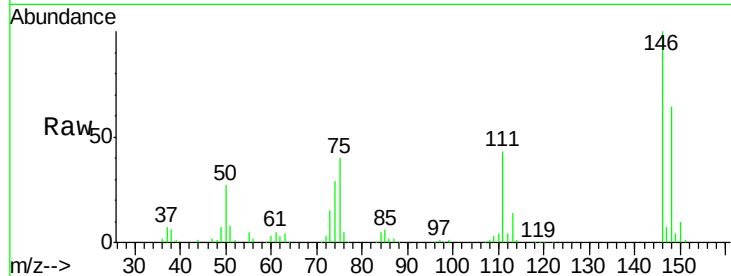




#83
 1,4-Dichlorobenzene
 Concen: 6.922 ug/l
 RT: 11.83 min Scan# 3263
 Delta R.T. -0.00 min
 Lab File: VU039709.D
 Acq: 29 Jul 2020 17:54

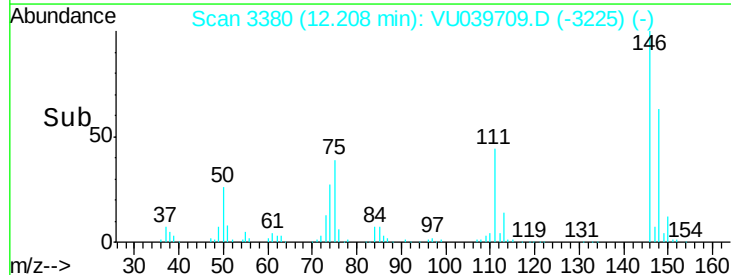
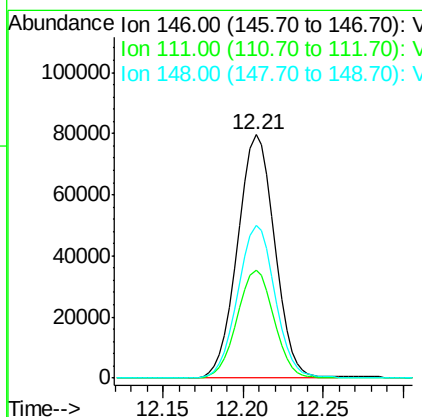
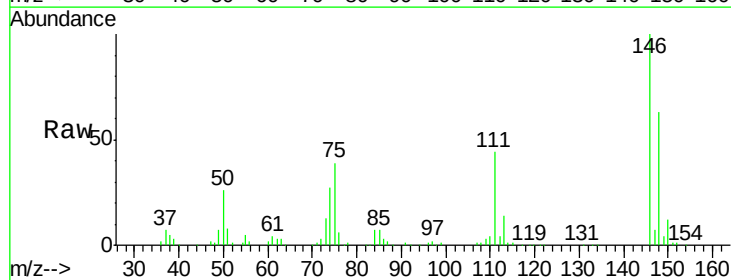
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-RVOA-WS

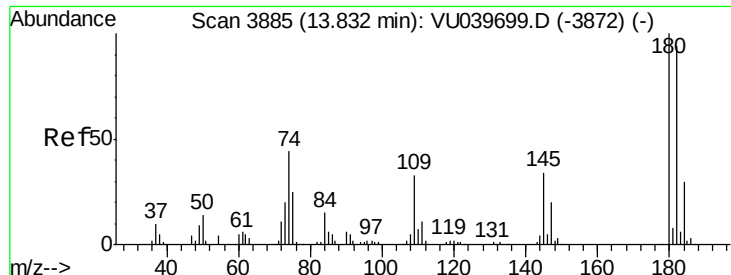
Tot Ion:146 Resp: 99425
 Ion Ratio Lower Upper
 146 100
 111 42.2 33.8 50.6
 148 64.5 51.1 76.7



#85
 1,2-Dichlorobenzene
 Concen: 9.140 ug/l
 RT: 12.21 min Scan# 3380
 Delta R.T. -0.00 min
 Lab File: VU039709.D
 Acq: 29 Jul 2020 17:54

Tgt Ion:146 Resp: 125802
 Ion Ratio Lower Upper
 146 100
 111 44.2 22.8 68.3
 148 63.2 31.7 95.1





#87

1,2,4-Trichlorobenzene

Concen: 5.259 ug/l

RT: 13.83 min Scan# 3886

Delta R.T. 0.00 min

Lab File: VU039709.D

Acq: 29 Jul 2020 17:54

Instrument :

MSVOA_U

ClientSampleId :

PT-RVOA-WS

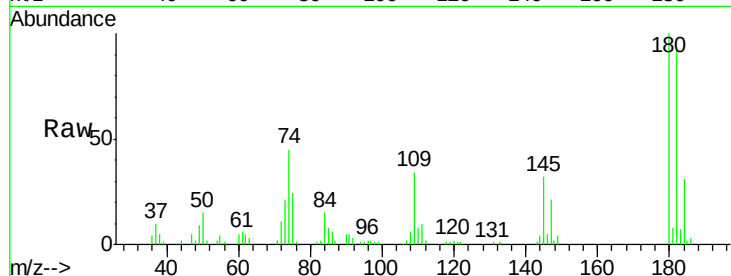
Tot Ion:180 Resp: 45271

Ion Ratio Lower Upper

180 100

182 94.6 76.2 114.4

145 33.4 26.8 40.2



Abundance Ion 179.70 (179.40 to 180.40): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

