

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051619\
 Data File : VX009611.D
 Acq On : 16 May 2019 16:44
 Operator : JC/SP
 Sample : K2894-18
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TWP-SB-02

Quant Time: May 17 06:39:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	168662	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	268131	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	234866	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	96116	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	113061	49.10	ug/l	0.00
Spiked Amount			Recovery	=	98.20%	
35) Dibromofluoromethane	5.50	113	82807	49.13	ug/l	0.00
Spiked Amount			Recovery	=	98.26%	
50) Toluene-d8	8.71	98	337844	49.65	ug/l	0.00
Spiked Amount			Recovery	=	99.30%	
62) 4-Bromofluorobenzene	11.13	95	110568	44.72	ug/l	0.00
Spiked Amount			Recovery	=	89.44%	

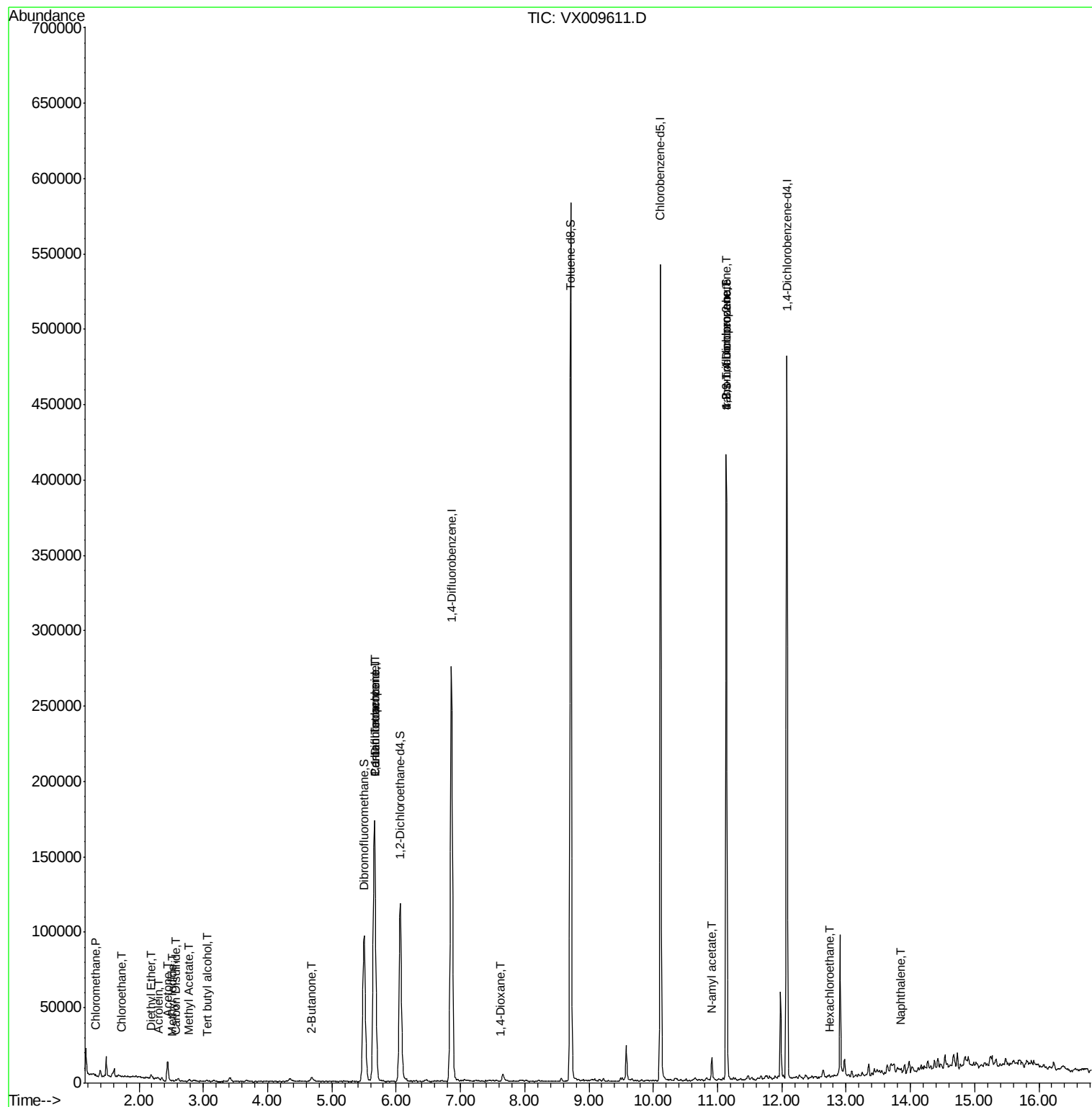
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	899	0.424	ug/l #	83
6) Chloroethane	1.73	64	283	0.213	ug/l #	86
8) Diethyl Ether	2.19	74	534	0.448	ug/l	94
10) Methyl Iodide	2.52	142	236	4.711	ug/l #	84
11) Tert butyl alcohol	3.05	59	767	1.439	ug/l #	87
13) Acrolein	2.30	56	711	1.473	ug/l #	37
16) Acetone	2.45	43	14680	11.874	ug/l	99
17) Carbon Disulfide	2.57	76	1064	0.239	ug/l #	53
18) Methyl Acetate	2.78	43	1903	0.647	ug/l	95
25) 2-Butanone	4.68	43	4468	2.326	ug/l #	88
28) Bromochloromethane	5.03	49	40	Below Cal	#	20
36) 1,1-Dichloropropene	5.67	75	12895	5.175	ug/l #	51
38) Carbon Tetrachloride	5.67	117	15835	6.994	ug/l #	15
49) 1,4-Dioxane	7.62	88	22	0.394	ug/l #	20
74) N-amyl acetate	10.91	43	1877	0.461	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	56155	25.187	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	56155	64.444	ug/l #	10
90) Hexachloroethane	12.76	117	225	0.216	ug/l #	7
95) Naphthalene	13.83	128	1561	0.223	ug/l #	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009611.D

Acq: 16 May 2019 16:44

Instrument :

MSVOA_X

ClientSampleId :

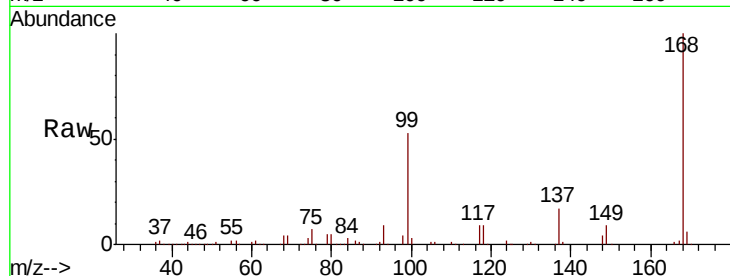
TWP-SB-02

Tot Ion:168 Resp: 168662

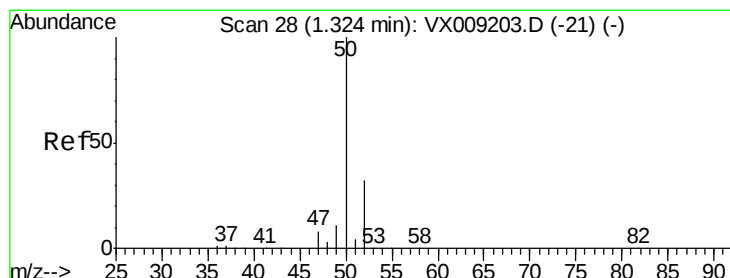
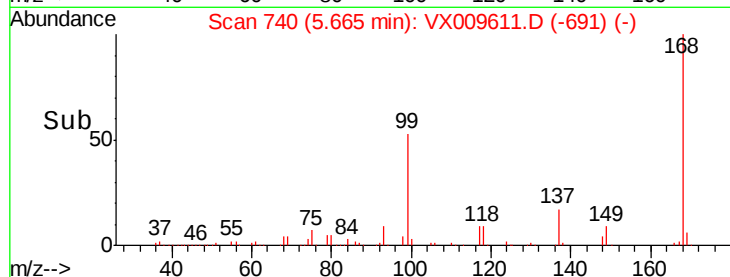
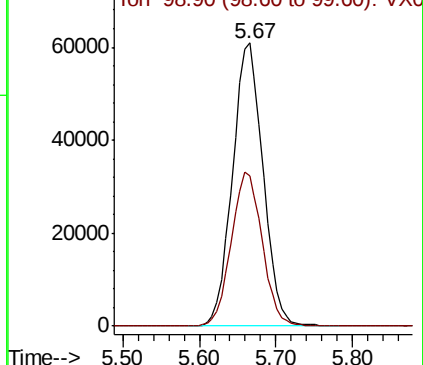
Ion Ratio Lower Upper

168 100

99 53.0 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VX009203.D (-726) (-)



#3

Chloromethane

Concen: 0.424 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX009611.D

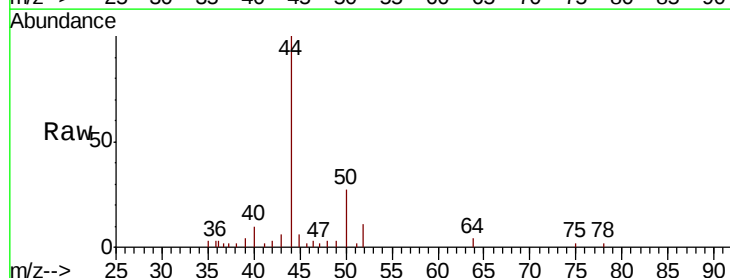
Acq: 16 May 2019 16:44

Tgt Ion: 50 Resp: 899

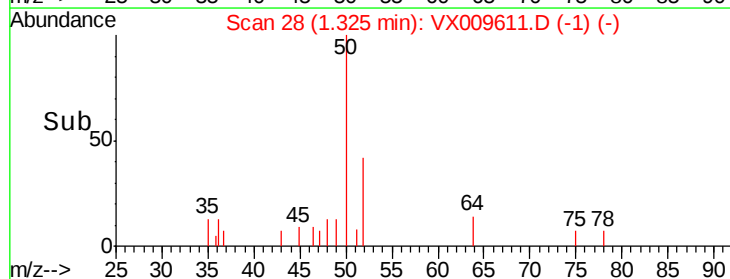
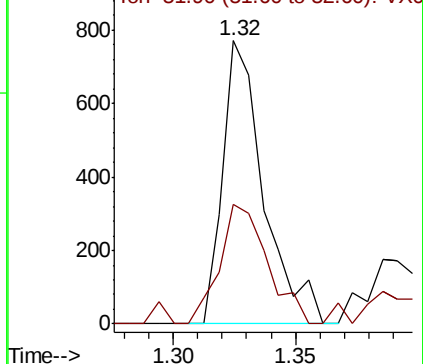
Ion Ratio Lower Upper

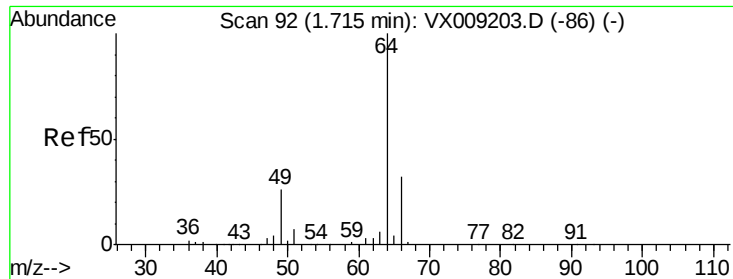
50 100

52 42.0 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX009203.D (-21) (-)





#6

Chloroethane

Concen: 0.213 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX009611.D

Acq: 16 May 2019 16:44

Instrument :

MSVOA_X

ClientSampleId :

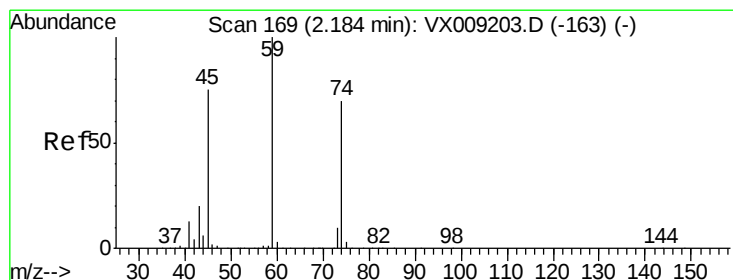
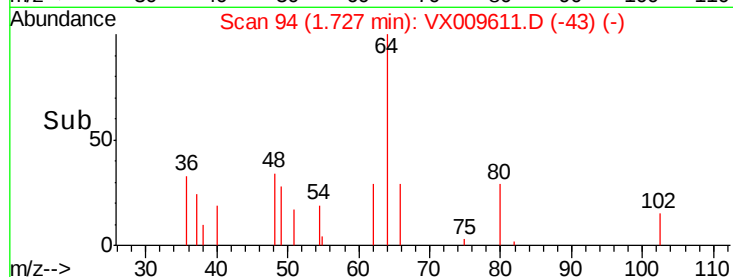
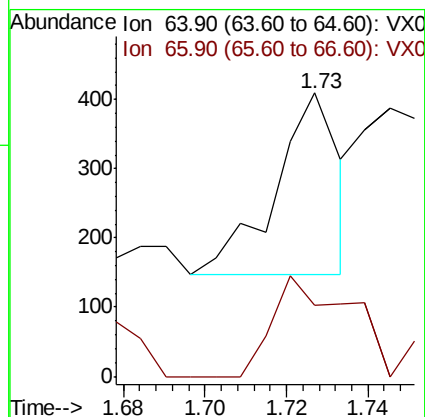
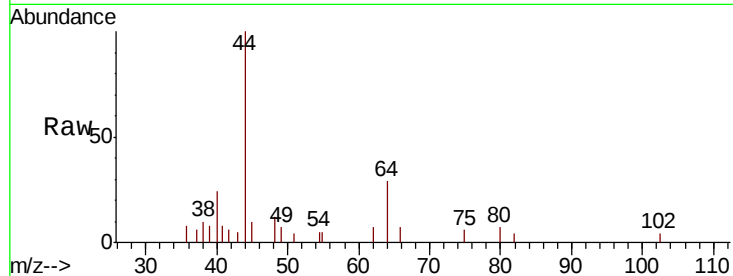
TWP-SB-02

Tot Ion: 64 Resp: 283

Ion Ratio Lower Upper

64 100

66 39.5 25.3 37.9#



#8

Diethyl Ether

Concen: 0.448 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.01 min

Lab File: VX009611.D

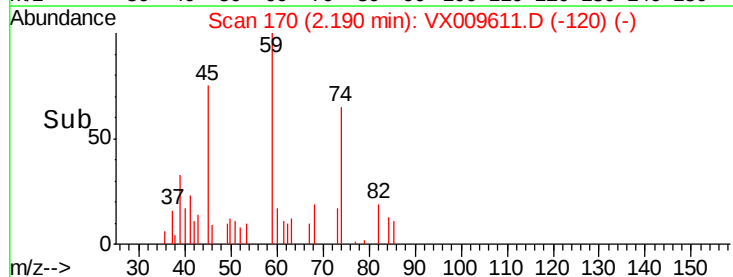
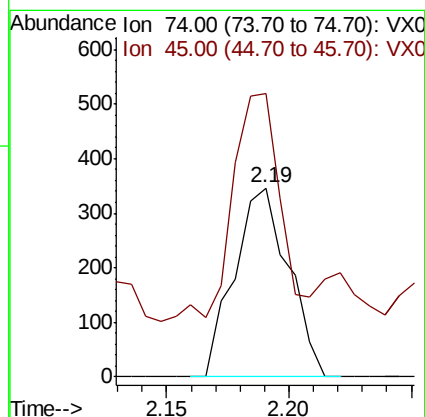
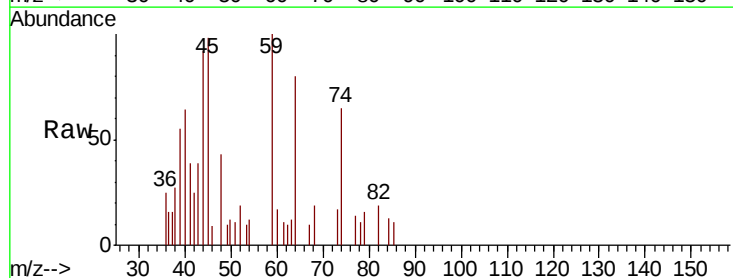
Acq: 16 May 2019 16:44

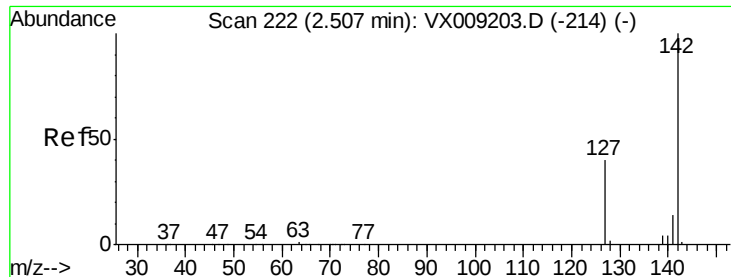
Tgt Ion: 74 Resp: 534

Ion Ratio Lower Upper

74 100

45 100.0 53.3 159.9

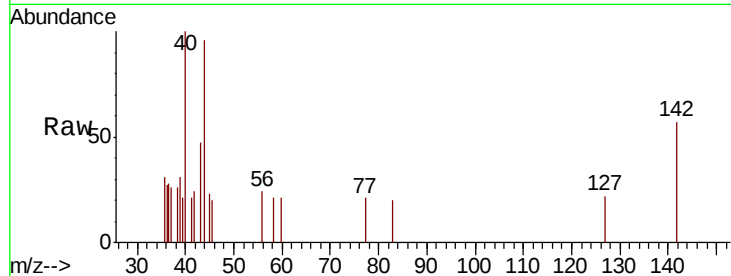




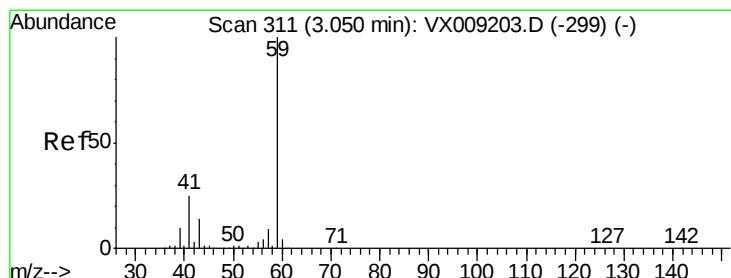
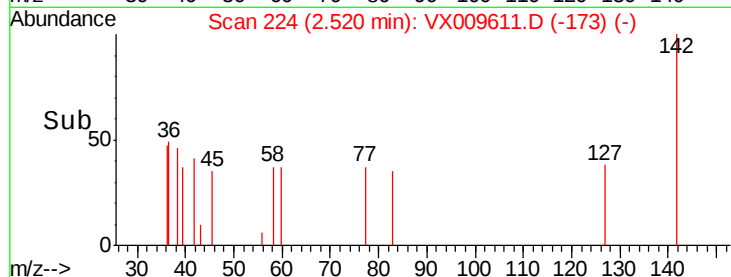
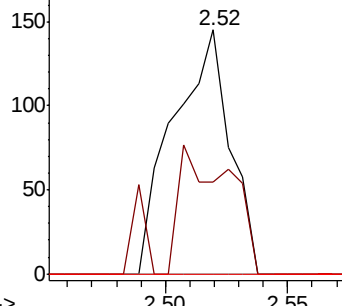
#10
Methvl Iodide
Concen: 4.711 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX009611.D
Acq: 16 May 2019 16:44

Instrument :
MSVOA_X
ClientSampleId :
TWP-SB-02

Tot Ion:142 Resp: 236
Ion Ratio Lower Upper
142 100
127 47.0 32.7 49.1
141 0.0 11.5 17.3#

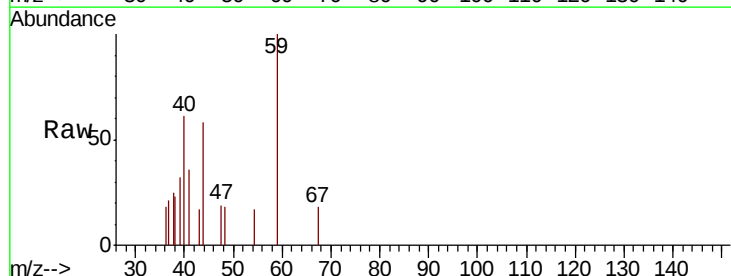


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

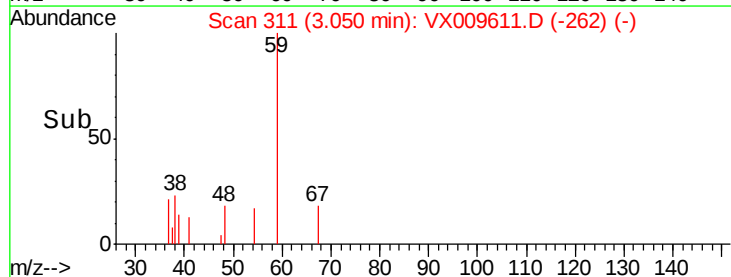
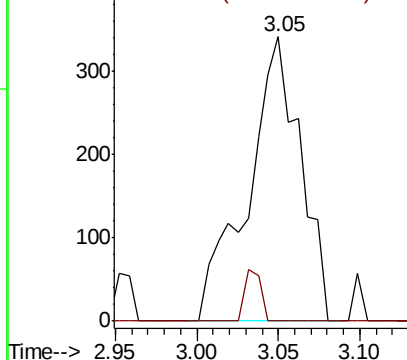


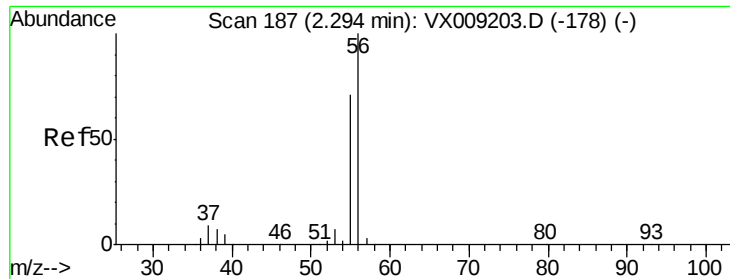
#11
Tert butyl alcohol
Concen: 1.439 ug/l
RT: 3.05 min Scan# 311
Delta R.T. 0.00 min
Lab File: VX009611.D
Acq: 16 May 2019 16:44

Tgt Ion: 59 Resp: 767
Ion Ratio Lower Upper
59 100
57 5.5 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.473 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX009611.D

Acq: 16 May 2019 16:44

Instrument :

MSVOA_X

ClientSampleId :

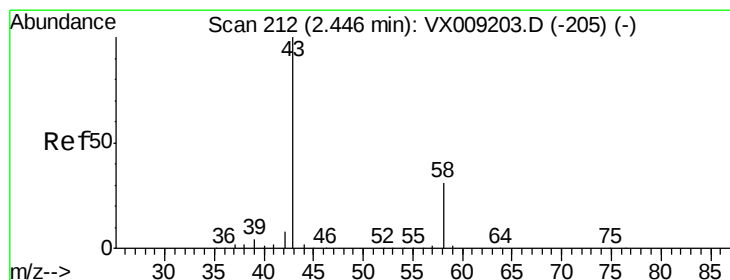
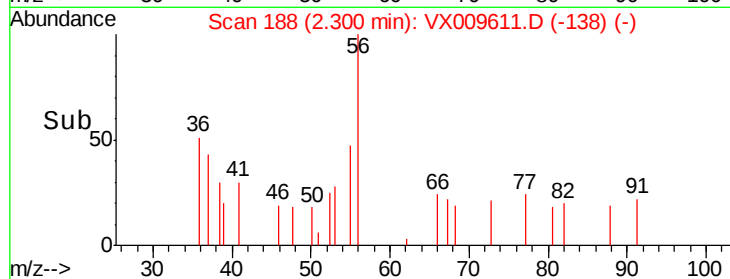
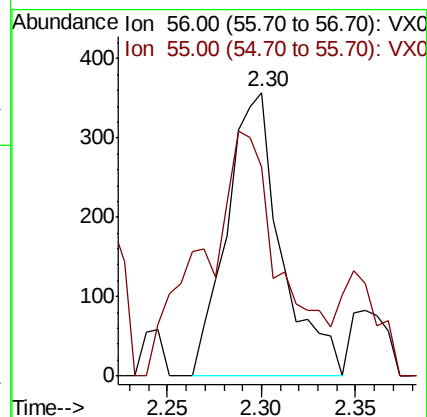
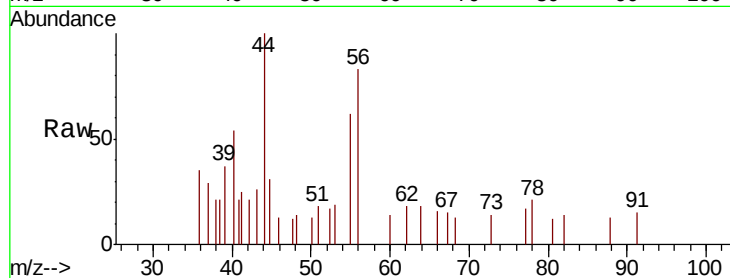
TWP-SB-02

Tot Ion: 56 Resp: 711

Ion Ratio Lower Upper

56 100

55 122.8 56.6 85.0#



#16

Acetone

Concen: 11.874 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX009611.D

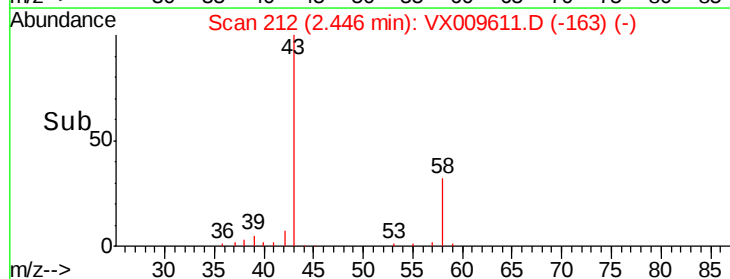
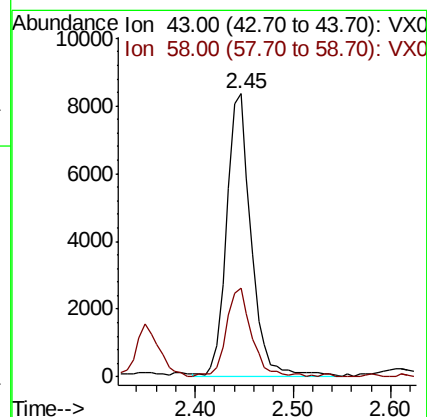
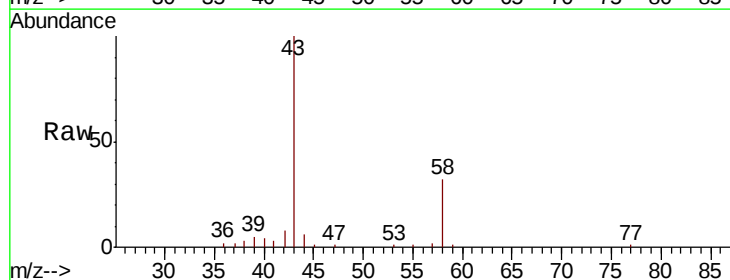
Acq: 16 May 2019 16:44

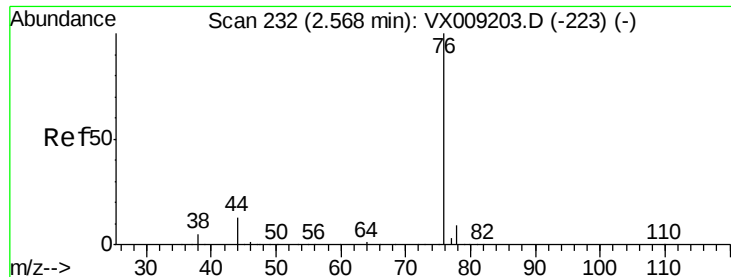
Tgt Ion: 43 Resp: 14680

Ion Ratio Lower Upper

43 100

58 31.5 24.9 37.3





#17

Carbon Disulfide

Concen: 0.239 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009611.D

Acq: 16 May 2019 16:44

Instrument :

MSVOA_X

ClientSampled :

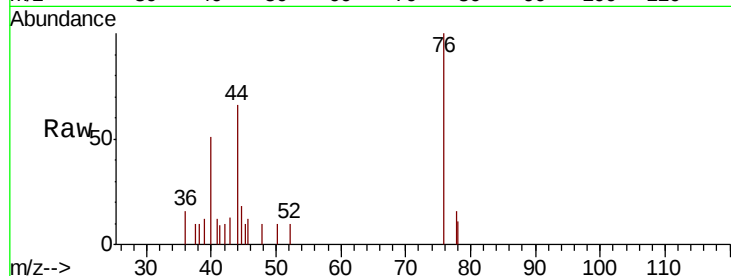
TWP-SB-02

Tot Ion: 76 Resp: 1064

Ion Ratio Lower Upper

76 100

78 26.4 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

600

500

400

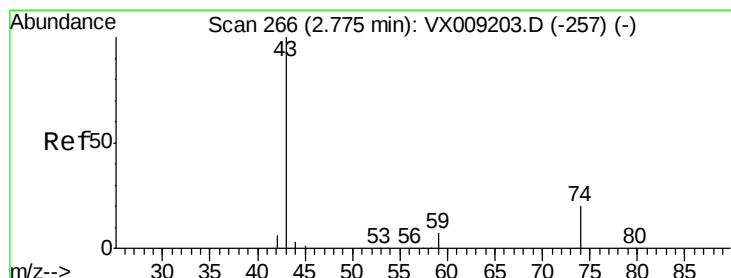
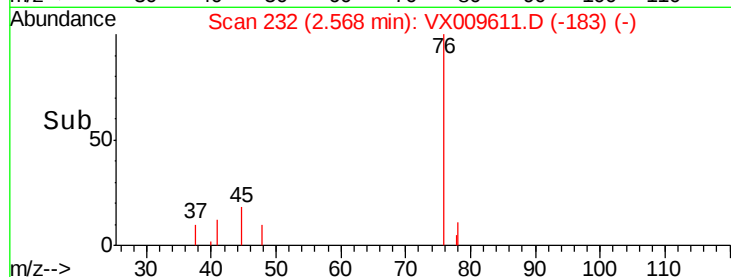
300

200

100

0

Time-->



#18

Methyl Acetate

Concen: 0.647 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX009611.D

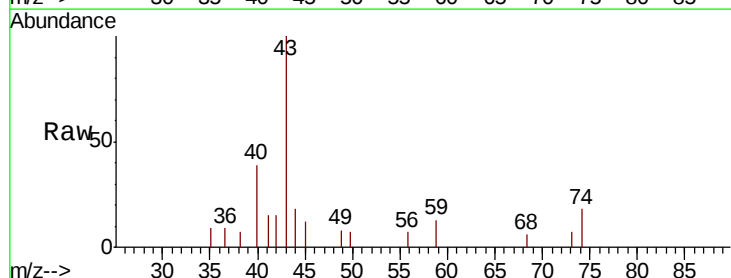
Acq: 16 May 2019 16:44

Tgt Ion: 43 Resp: 1903

Ion Ratio Lower Upper

43 100

74 18.2 16.2 24.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

1000

800

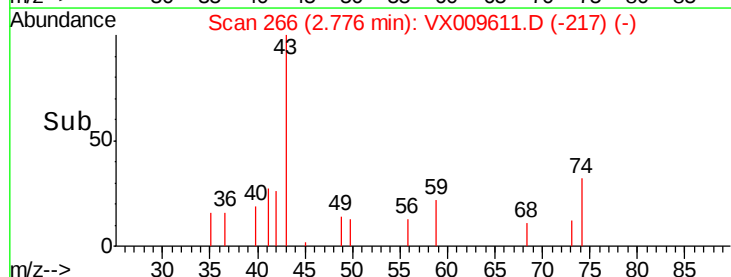
600

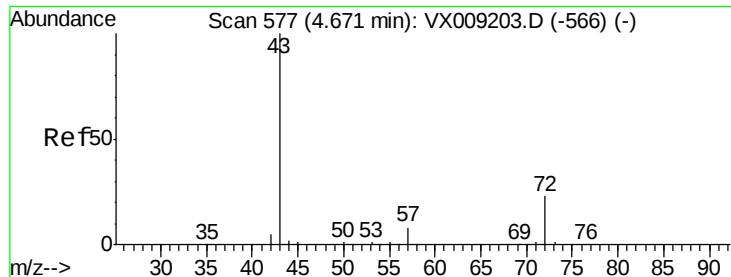
400

200

0

Time-->





#25

2-Butanone

Concen: 2.326 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX009611.D

Acq: 16 May 2019 16:44

Instrument :

MSVOA_X

ClientSampled :

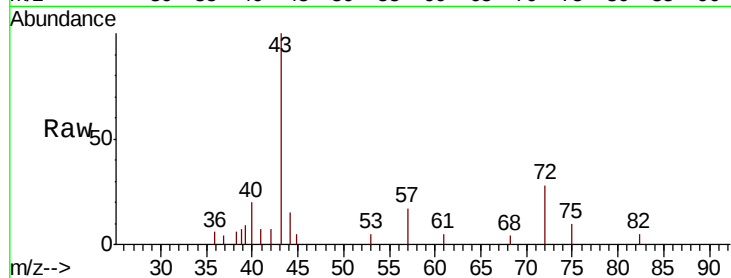
TWP-SB-02

Tot Ion: 43 Resp: 4468

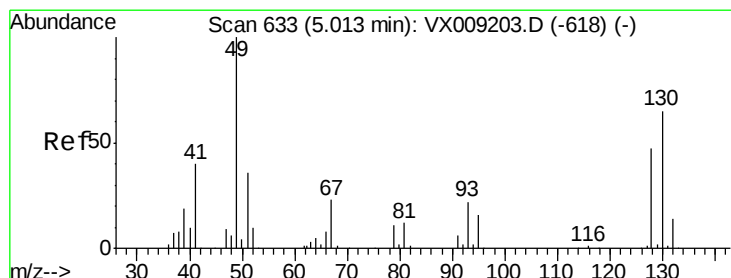
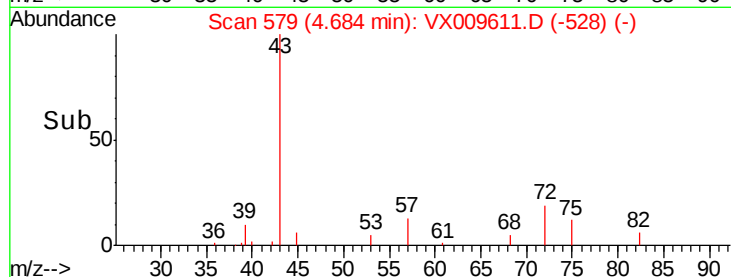
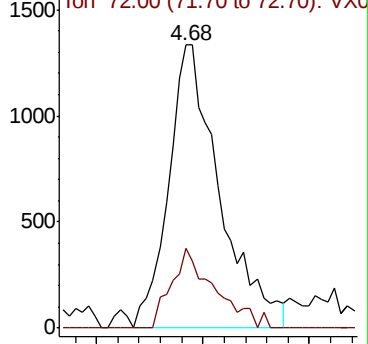
Ion Ratio Lower Upper

43 100

72 28.4 18.2 27.2#



Abundance Ion 43.00 (42.70 to 43.70): VX009611.D (-528) (-)



#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 635

Delta R.T. 0.01 min

Lab File: VX009611.D

Acq: 16 May 2019 16:44

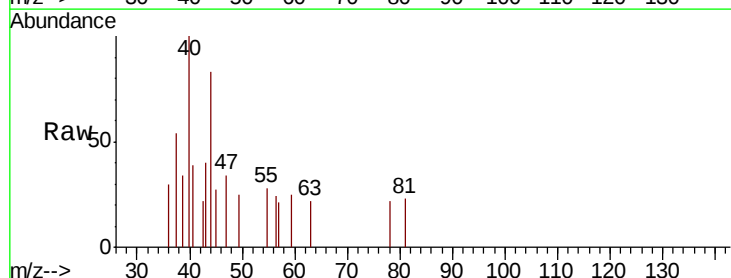
Tgt Ion: 49 Resp: 40

Ion Ratio Lower Upper

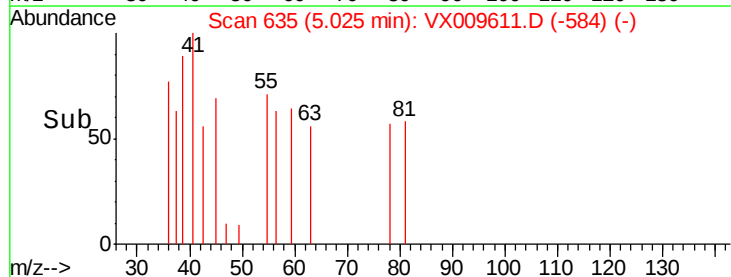
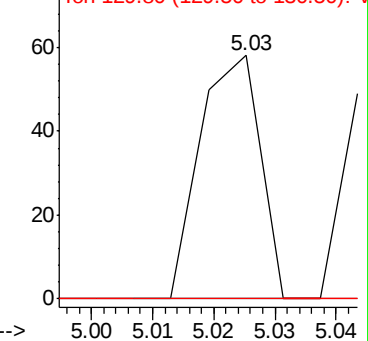
49 100

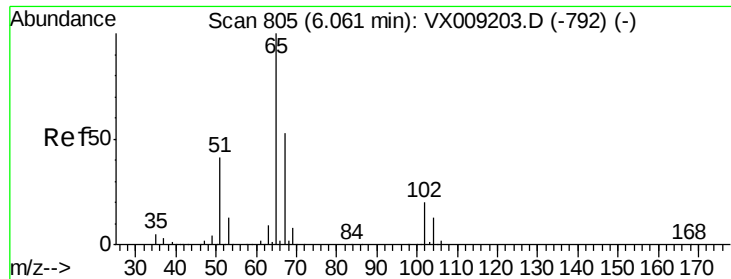
129 0.0 0.0 3.8

130 0.0 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX009611.D (-584) (-)





#33

1,2-Dichloroethane-d4

Concen: 49.105 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009611.D

Acq: 16 May 2019 16:44

Instrument :

MSVOA_X

ClientSampleId :

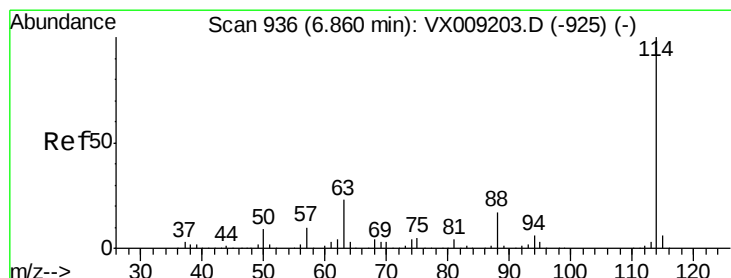
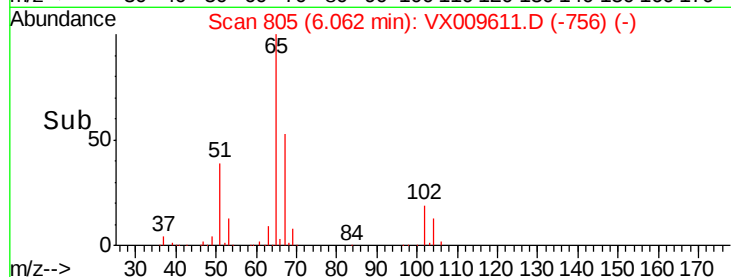
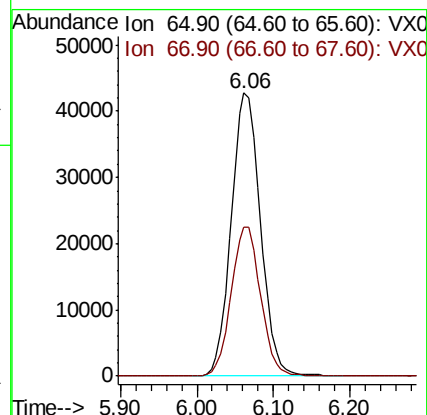
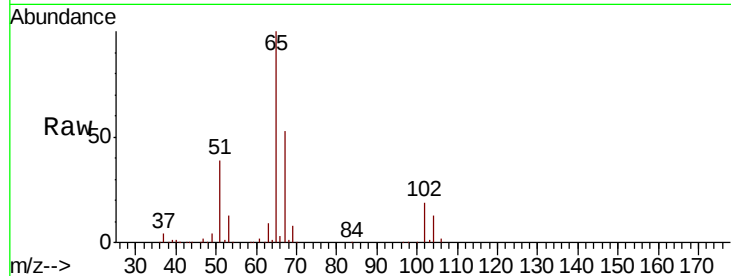
TWP-SB-02

Tot Ion: 65 Resp: 113061

Ion Ratio Lower Upper

65 100

67 53.1 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX009611.D

Acq: 16 May 2019 16:44

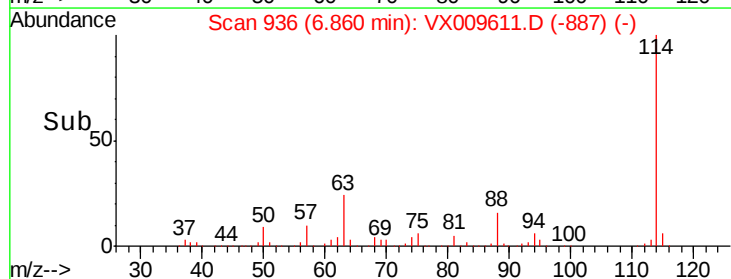
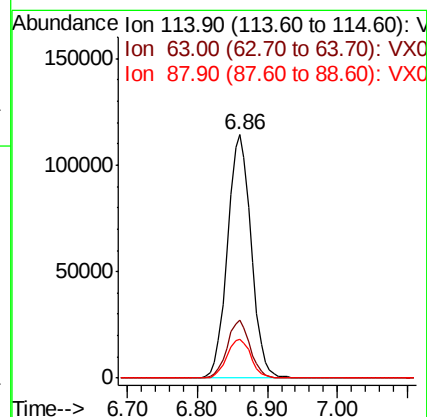
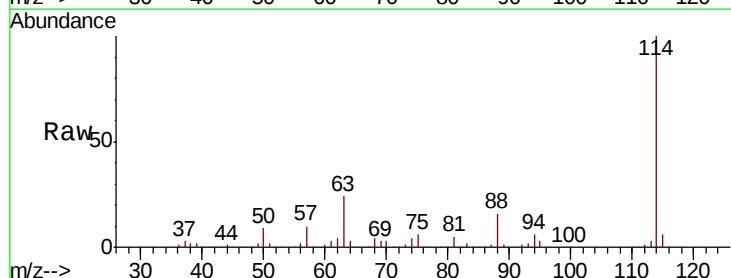
Tgt Ion: 114 Resp: 268131

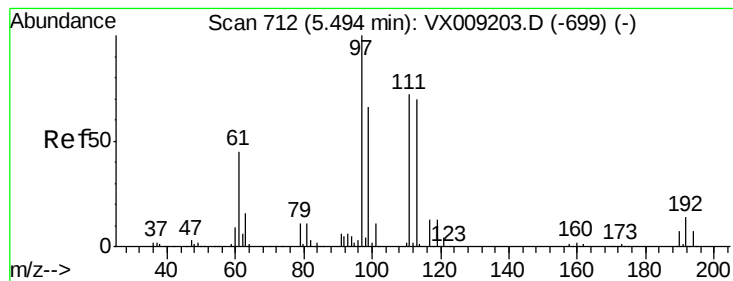
Ion Ratio Lower Upper

114 100

63 23.6 0.0 45.6

88 15.7 0.0 33.2





#35

Dibromofluoromethane

Concen: 49.127 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX009611.D

Acq: 16 May 2019 16:44

Instrument :

MSVOA_X

ClientSampleId :

TWP-SB-02

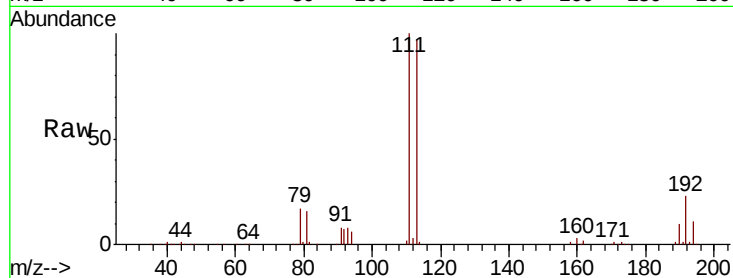
Tot Ion:113 Resp: 82807

Ion Ratio Lower Upper

113 100

111 102.7 82.8 124.2

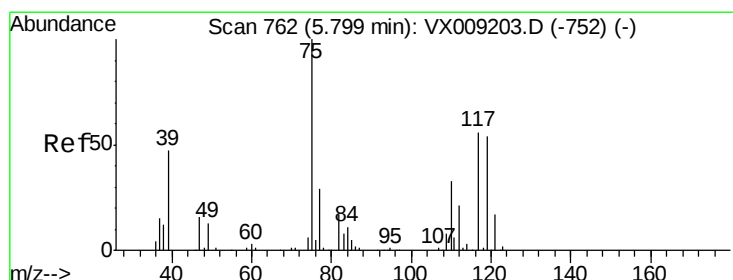
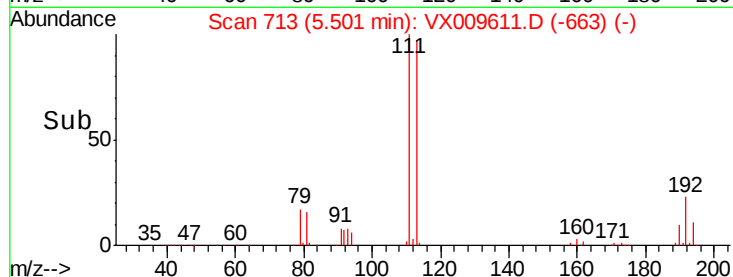
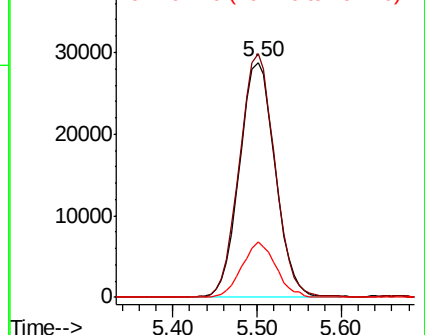
192 22.5 17.0 25.6



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.175 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX009611.D

Acq: 16 May 2019 16:44

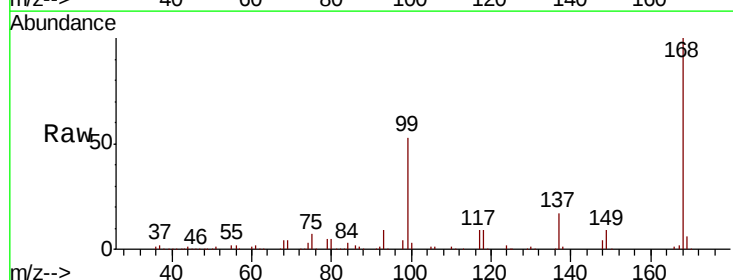
Tgt Ion: 75 Resp: 12895

Ion Ratio Lower Upper

75 100

110 9.2 16.9 50.6#

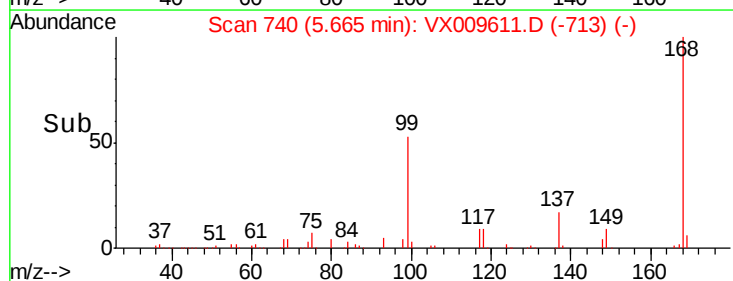
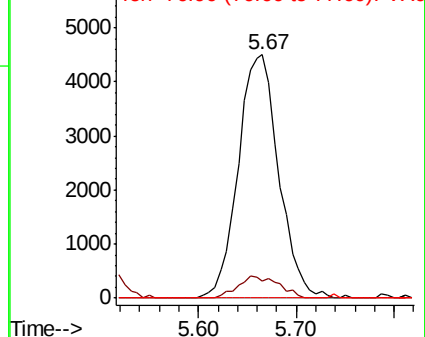
77 0.0 24.8 37.2#

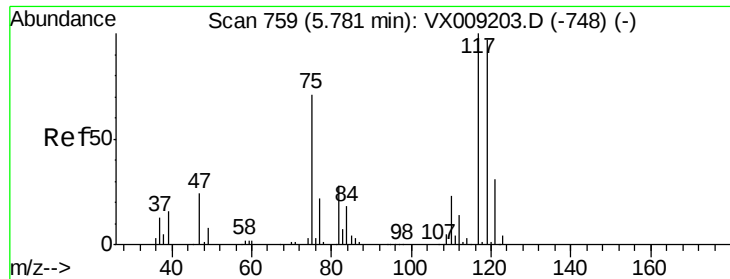


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.994 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009611.D

Acq: 16 May 2019 16:44

Instrument :

MSVOA_X

ClientSampled :

TWP-SB-02

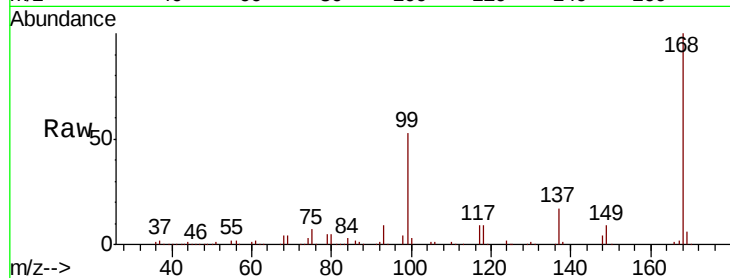
Tot Ion:117 Resp: 15835

Ion Ratio Lower Upper

117 100

119 4.4 77.5 116.3#

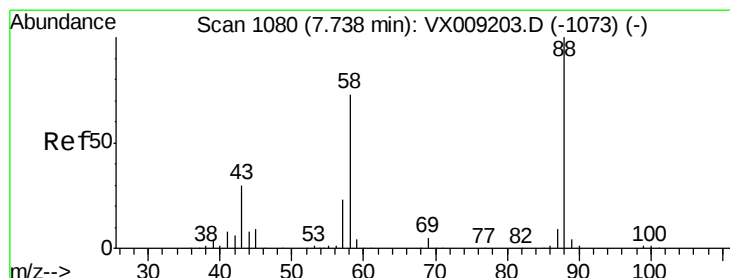
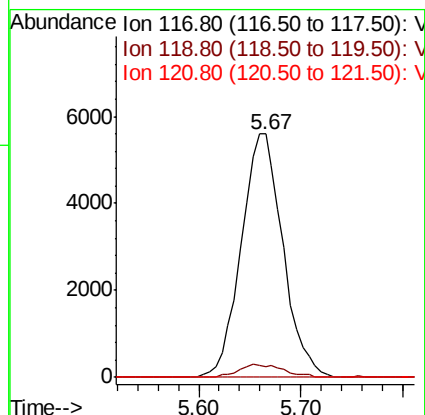
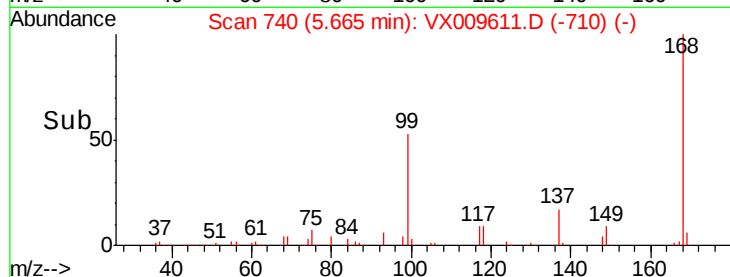
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 0.394 ug/l

RT: 7.62 min Scan# 1061

Delta R.T. -0.12 min

Lab File: VX009611.D

Acq: 16 May 2019 16:44

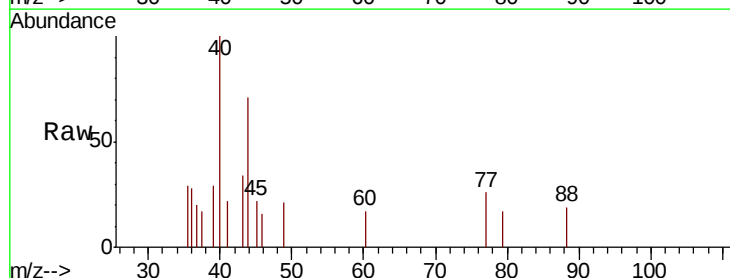
Tgt Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 0.0 28.6 42.8#

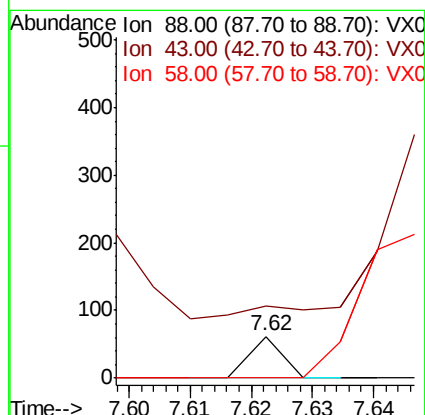
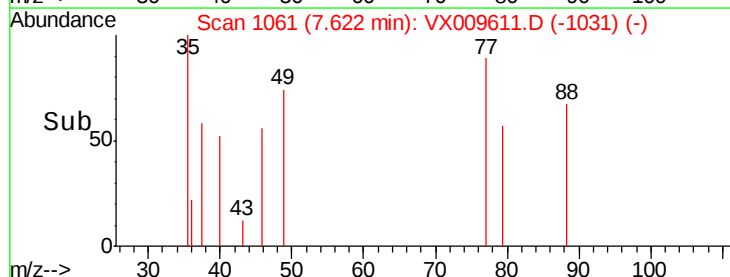
58 0.0 61.7 92.5#

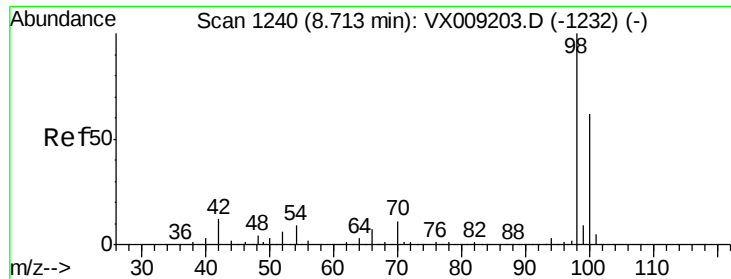


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.646 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009611.D

Acq: 16 May 2019 16:44

Instrument :

MSVOA_X

ClientSampleId :

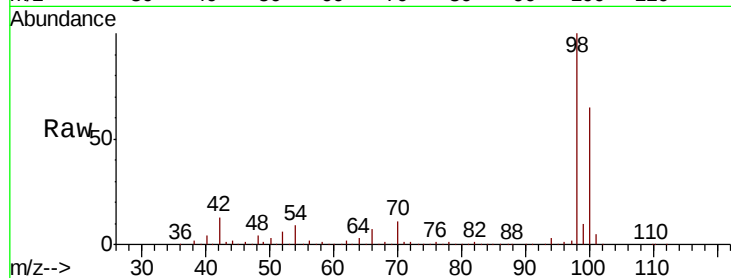
TWP-SB-02

Tot Ion: 98 Resp: 337844

Ion Ratio Lower Upper

98 100

100 64.3 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

250000

200000

150000

100000

50000

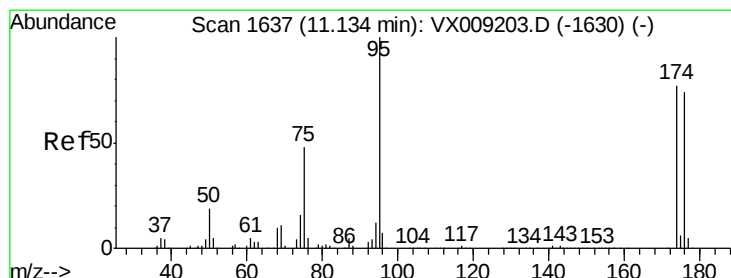
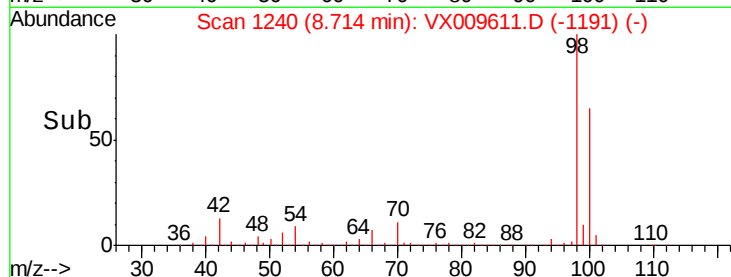
0

8.60

8.70

8.80

Time-->



#62

4-Bromofluorobenzene

Concen: 44.715 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009611.D

Acq: 16 May 2019 16:44

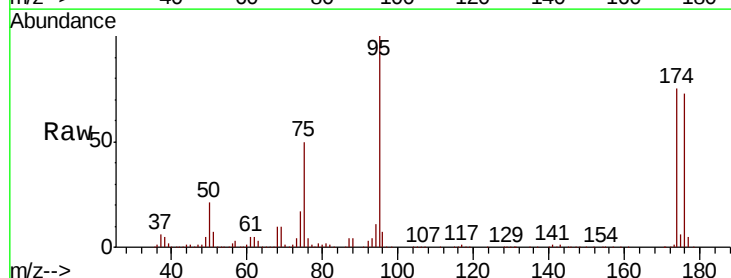
Tgt Ion: 95 Resp: 110568

Ion Ratio Lower Upper

95 100

174 80.6 0.0 161.6

176 78.4 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

120000

100000

80000

60000

40000

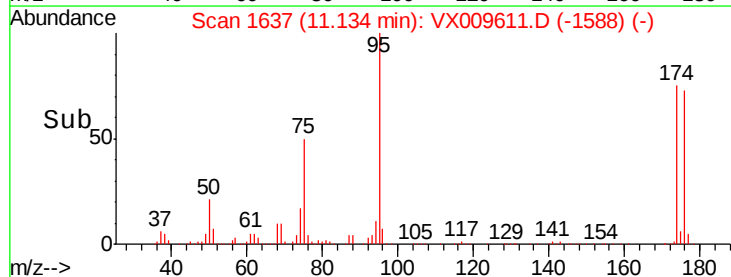
20000

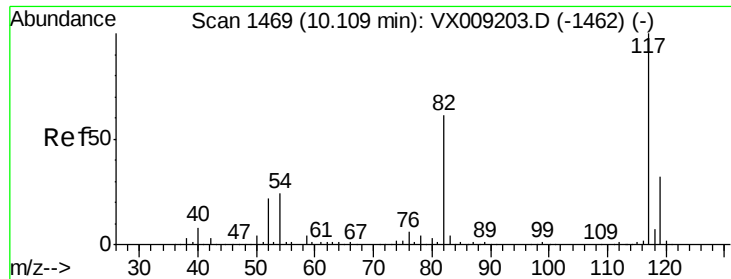
0

11.10

11.20

Time-->

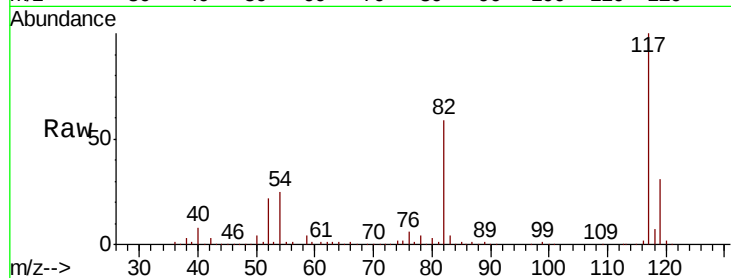




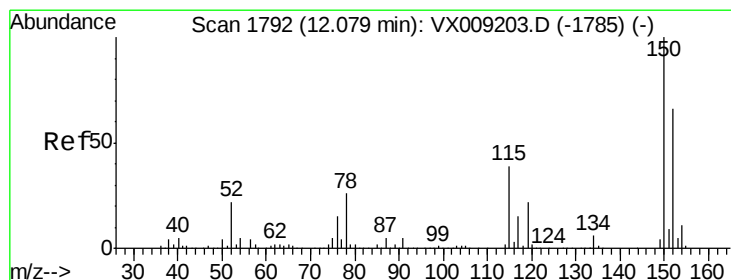
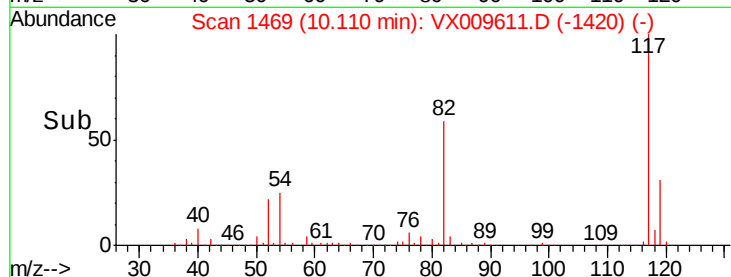
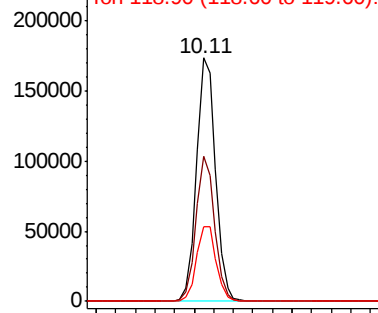
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009611.D
Acq: 16 May 2019 16:44

Instrument :
MSVOA_X
ClientSampleId :
TWP-SB-02

Tot Ion:117 Resp: 234866
Ion Ratio Lower Upper
117 100
82 59.5 48.8 73.2
119 30.8 25.8 38.6

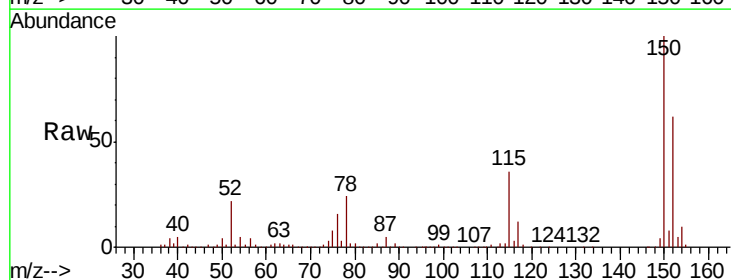


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

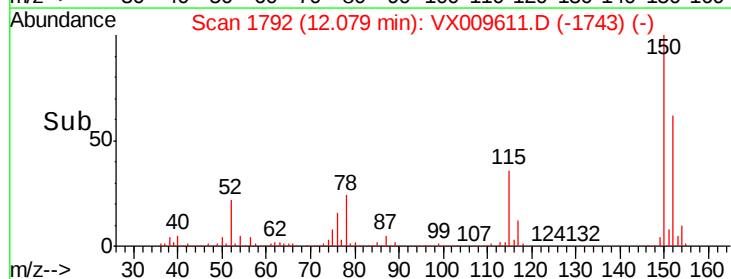
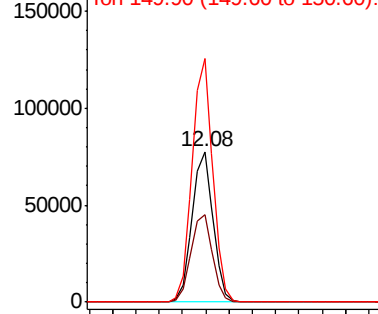


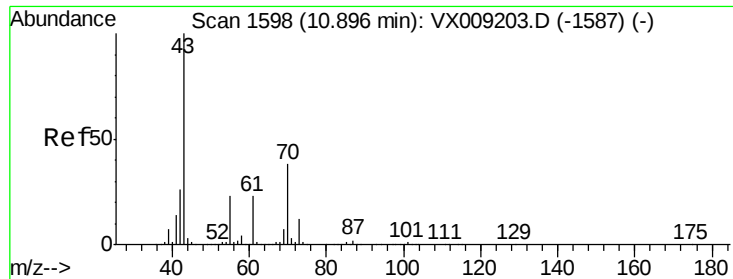
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX009611.D
Acq: 16 May 2019 16:44

Tgt Ion:152 Resp: 96116
Ion Ratio Lower Upper
152 100
115 59.7 41.2 123.6
150 158.9 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.461 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX009611.D

Acq: 16 May 2019 16:44

Instrument :

MSVOA_X

ClientSampled :

TWP-SB-02

Tot Ion: 43 Resp: 1877

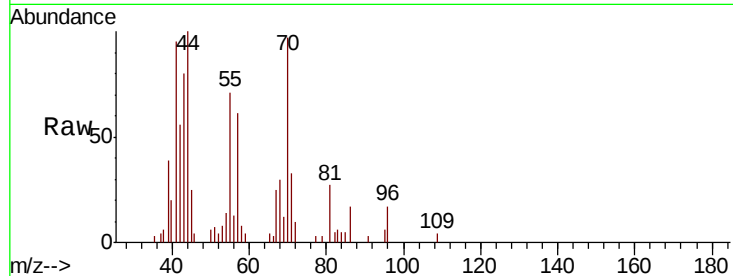
Ion Ratio Lower Upper

43 100

70 127.6 30.0 45.0#

55 132.2 17.9 26.9#

61 0.0 18.4 27.6#

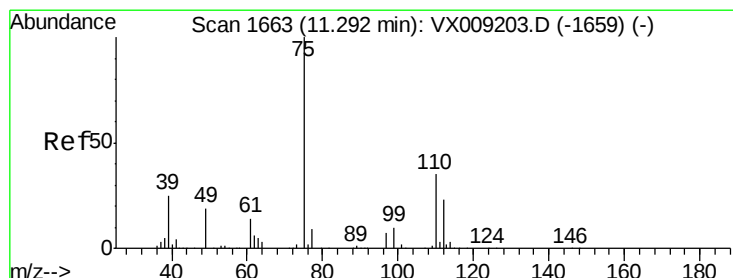
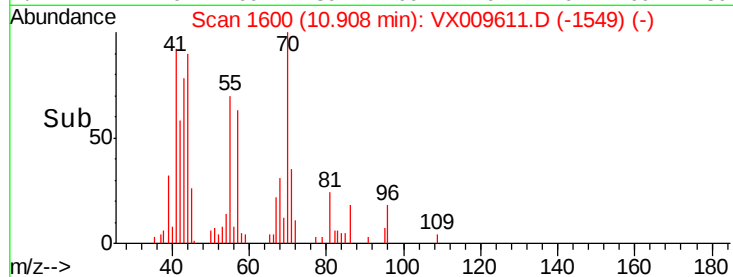
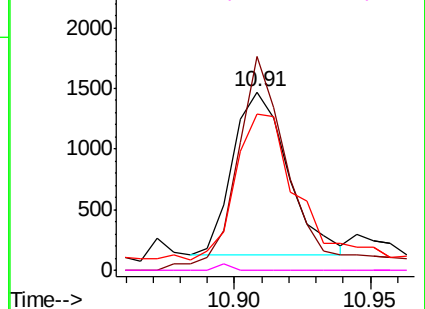


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 25.187 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009611.D

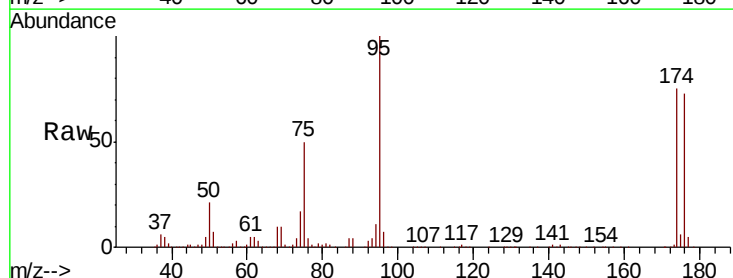
Acq: 16 May 2019 16:44

Tgt Ion: 75 Resp: 56155

Ion Ratio Lower Upper

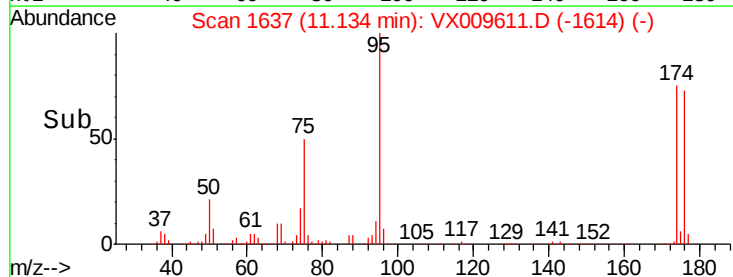
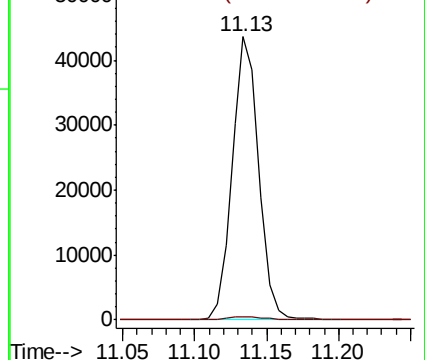
75 100

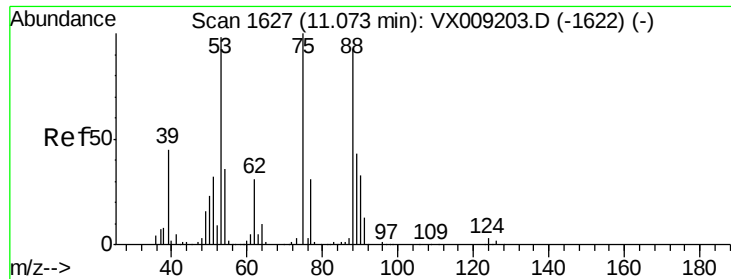
77 1.7 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 64.444 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009611.D

Acq: 16 May 2019 16:44

Instrument :

MSVOA_X

ClientSampleId :

TWP-SB-02

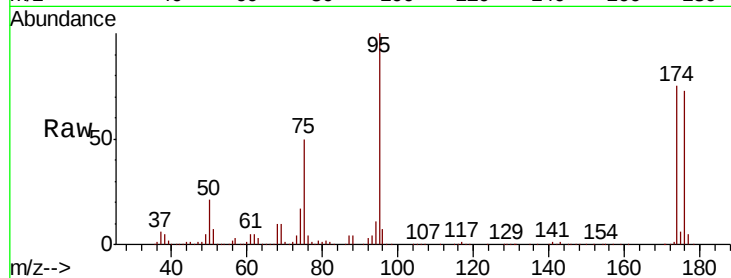
Tot Ion: 75 Resp: 56155

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

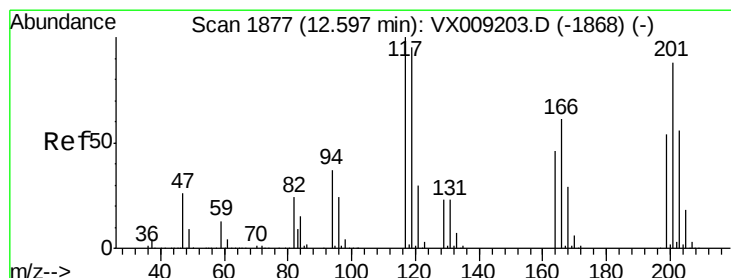
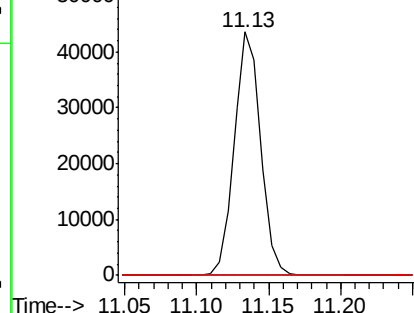
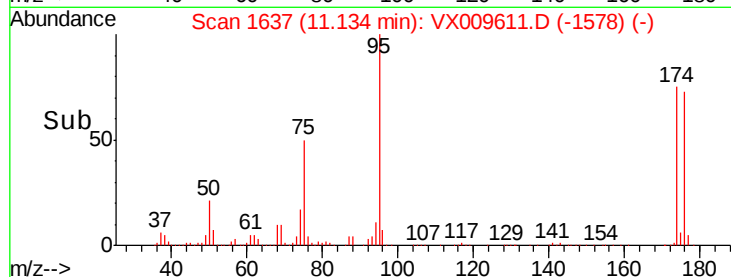
89 0.0 34.7 52.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#90

Hexachloroethane

Concen: 0.216 ug/l

RT: 12.76 min Scan# 1903

Delta R.T. 0.16 min

Lab File: VX009611.D

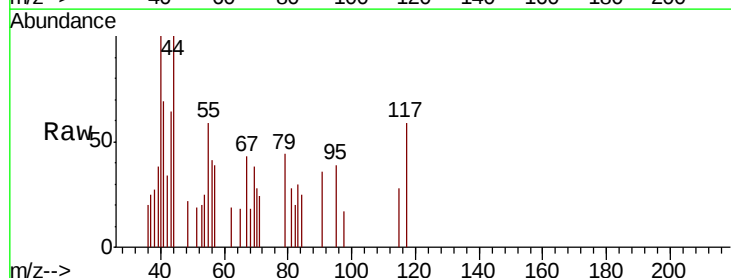
Acq: 16 May 2019 16:44

Tgt Ion: 117 Resp: 225

Ion Ratio Lower Upper

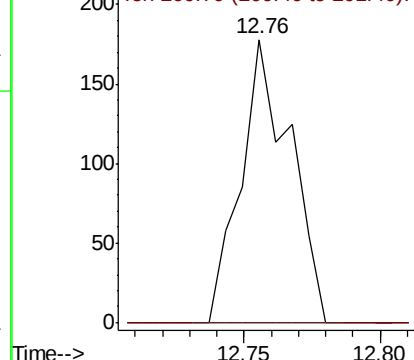
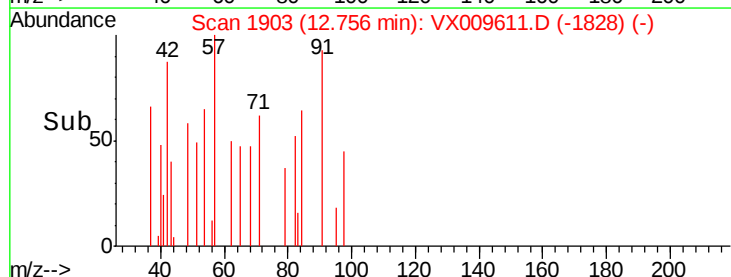
117 100

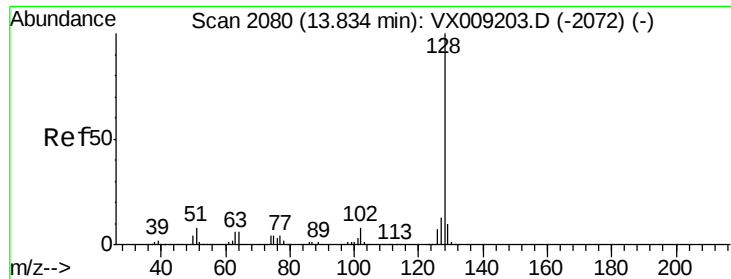
201 0.0 42.3 126.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

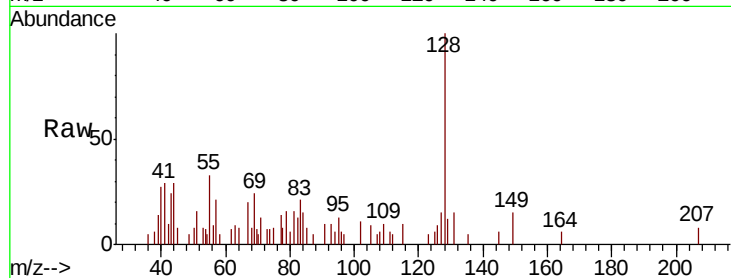




#95
Naphthalene
Concen: 0.223 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX009611.D
Acq: 16 May 2019 16:44

Instrument :
MSVOA_X
ClientSampleId :
TWP-SB-02

Tot Ion	Ratio	Lower	Upper
128	100		
127	18.4	10.4	15.6#
129	12.4	8.6	13.0



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

