

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091020\
 Data File : VX018340.D
 Acq On : 10 Sep 2020 15:38
 Operator : JC/SP
 Sample : L3952-05 50X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 16744

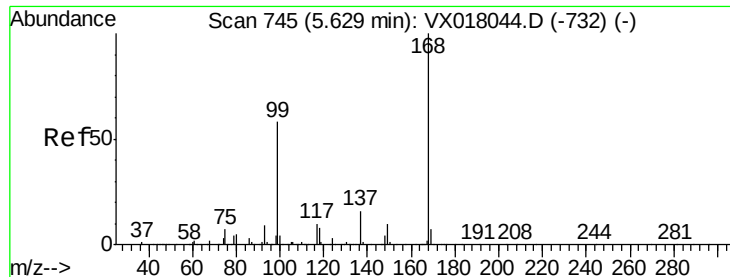
Quant Time: Sep 11 06:53:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 21 03:03:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.62	168	451772	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	726009	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	691455	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	349615	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	328805	52.43	ug/l	0.00
Spiked Amount			Recovery	=	104.86%	
35) Dibromofluoromethane	5.46	113	252417	51.05	ug/l	0.00
Spiked Amount			Recovery	=	102.10%	
50) Toluene-d8	8.70	98	890203	48.34	ug/l	0.00
Spiked Amount			Recovery	=	96.68%	
62) 4-Bromofluorobenzene	11.12	95	342534	47.27	ug/l	0.00
Spiked Amount			Recovery	=	94.54%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	920	0.330	ug/l #	41
10) Methyl Iodide	2.48	142	1016	5.486	ug/l #	41
11) Tert butyl alcohol	3.01	59	2349	1.926	ug/l	94
13) Acrolein	2.27	56	400	0.791	ug/l #	74
15) Acrylonitrile	3.12	53	1161	0.420	ug/l #	46
16) Acetone	2.42	43	116710	47.756	ug/l	93
20) Methylene Chloride	2.83	84	2811	Below Cal		84
25) 2-Butanone	4.64	43	15216	3.788	ug/l	97
29) Tetrahydrofuran	5.09	42	906	0.354	ug/l #	75
37) Ethyl Acetate	4.79	43	2214	0.285	ug/l #	80
38) Carbon Tetrachloride	5.62	117	47690	6.320	ug/l #	18
49) 1,4-Dioxane	7.71	88	96	0.847	ug/l #	1
59) 2-Hexanone	9.48	43	1541	0.261	ug/l	67
68) m/p-Xylenes	10.34	106	2515	0.287	ug/l	96
76) 1,2,3-Trichloropropane	11.12	75	177370	22.806	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	177370	61.595	ug/l #	13
84) 1,2,4-Trimethylbenzene	11.79	105	6639	0.343	ug/l	90
93) 1,2,4-Trichlorobenzene	13.63	180	1535	0.219	ug/l #	43
95) Naphthalene	13.82	128	13351	0.577	ug/l #	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.01 min

Lab File: VX018340.D

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ClientSampleId :

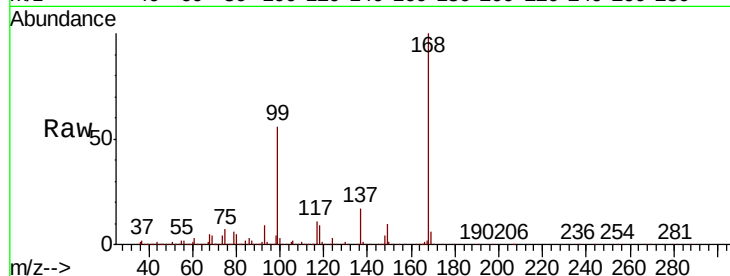
16744

Tot Ion:168 Resp: 451772

Ion Ratio Lower Upper

168 100

99 56.2 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.62

150000

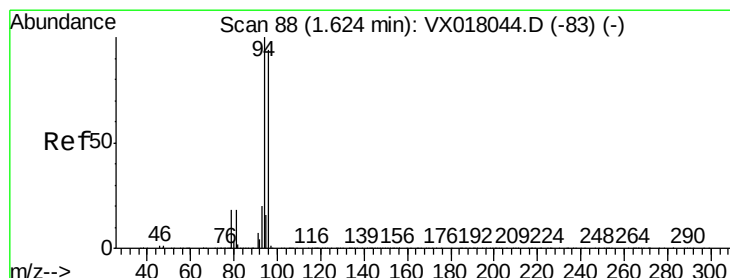
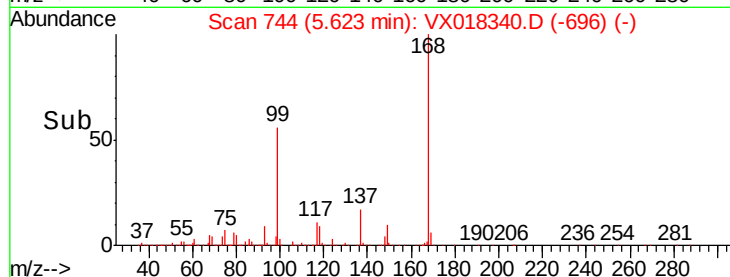
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.330 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX018340.D

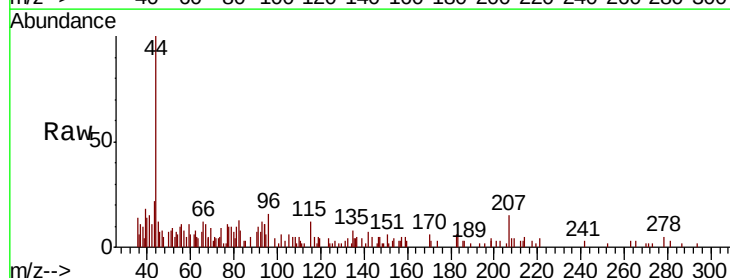
Acq: 10 Sep 2020 15:38

Tgt Ion: 94 Resp: 920

Ion Ratio Lower Upper

94 100

96 37.2 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

600

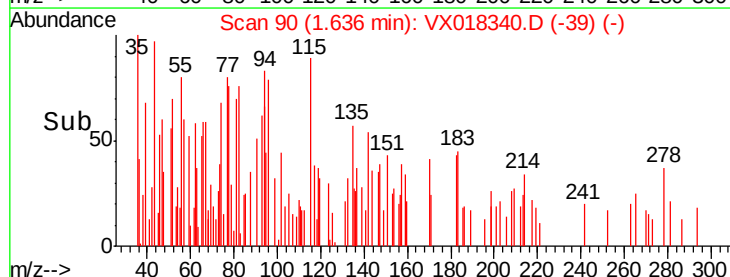
400

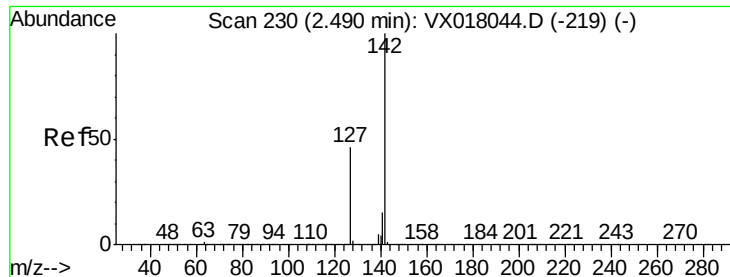
200

0

Time-->

1.60 1.65

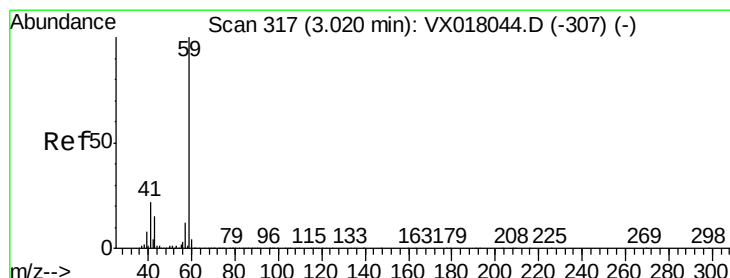
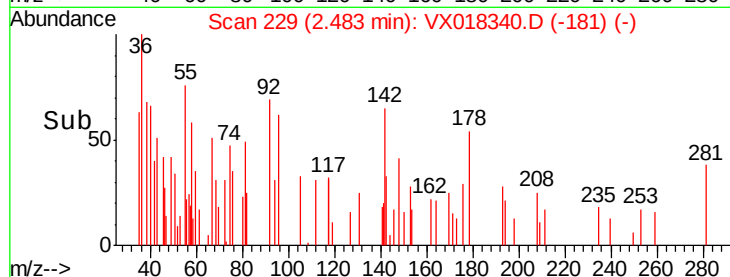
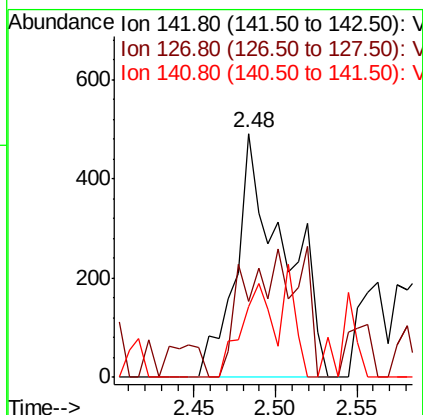
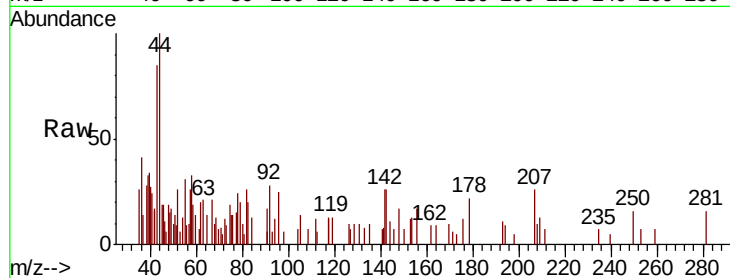




#10
Methvl Iodide
Concen: 5.486 ug/l
RT: 2.48 min Scan# 229
Delta R.T. -0.01 min
Lab File: VX018340.D
Acq: 10 Sep 2020 15:38

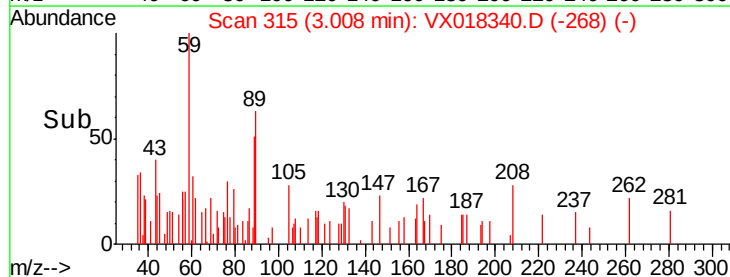
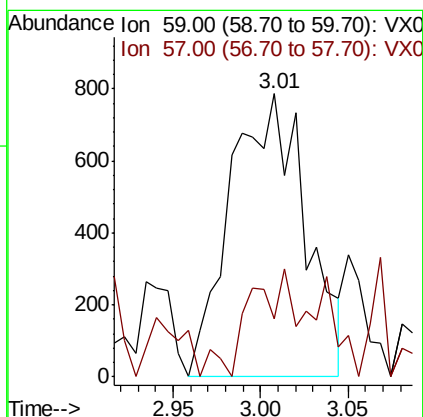
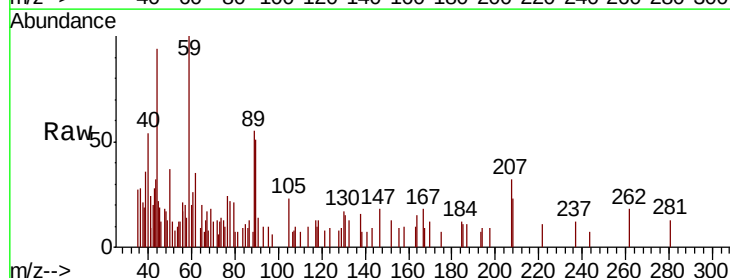
Instrument :
MSVOA_X
ClientSampled :
16744

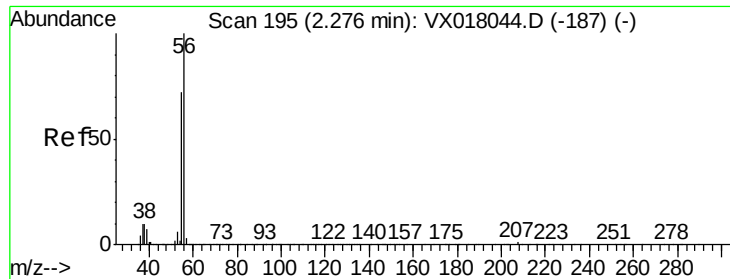
Tot Ion:142 Resp: 1016
Ion Ratio Lower Upper
142 100
127 0.0 37.0 55.6#
141 24.6 11.5 17.3#



#11
Tert butyl alcohol
Concen: 1.926 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX018340.D
Acq: 10 Sep 2020 15:38

Tgt Ion: 59 Resp: 2349
Ion Ratio Lower Upper
59 100
57 8.9 8.9 13.3





#13

Acrolein

Concen: 0.791 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.01 min

Lab File: VX018340.D

Acq: 10 Sep 2020 15:38

Instrument :

MSVOA_X

ClientSampled :

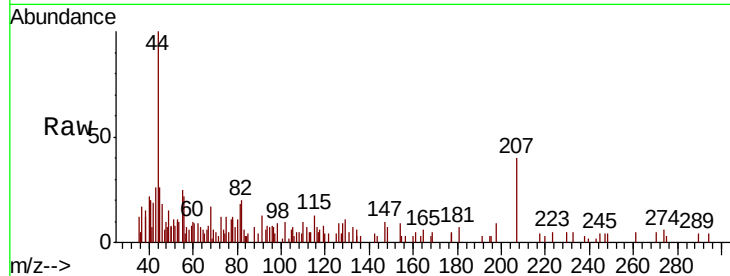
16744

Tot Ion: 56 Resp: 400

Ion Ratio Lower Upper

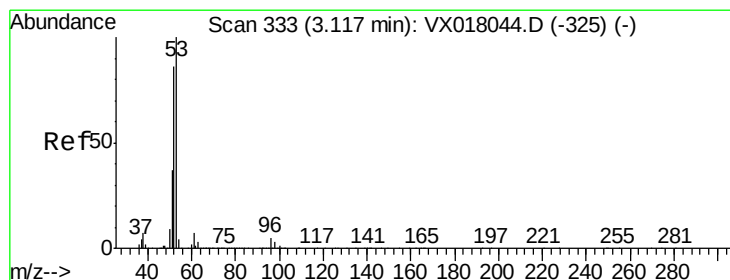
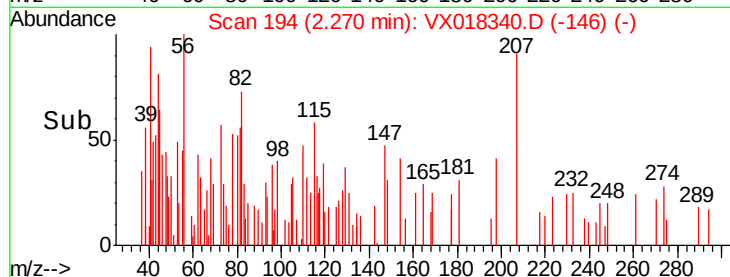
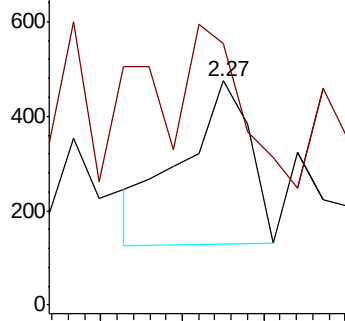
56 100

55 92.5 57.0 85.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.420 ug/l

RT: 3.12 min Scan# 333

Delta R.T. 0.00 min

Lab File: VX018340.D

Acq: 10 Sep 2020 15:38

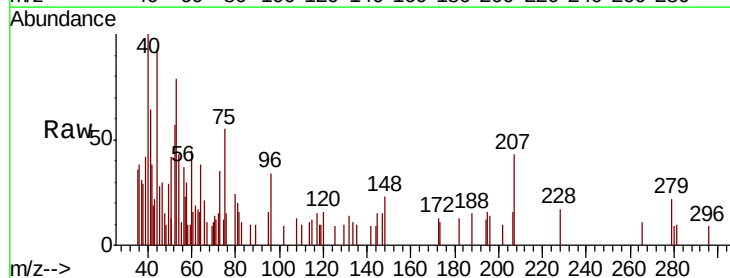
Tgt Ion: 53 Resp: 1161

Ion Ratio Lower Upper

53 100

52 22.2 66.9 100.3#

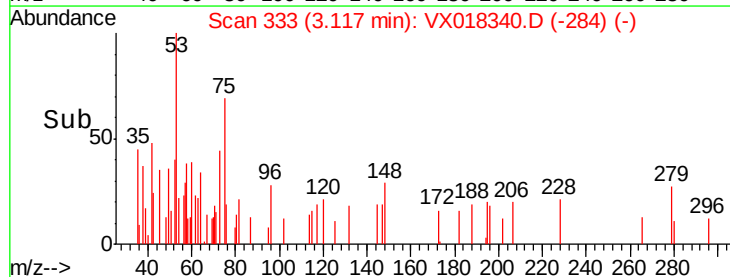
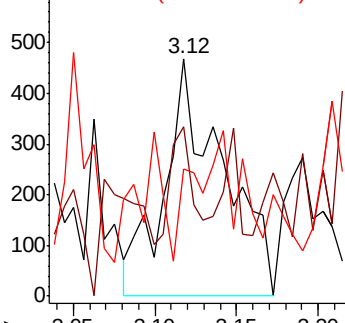
51 23.7 28.7 43.1#

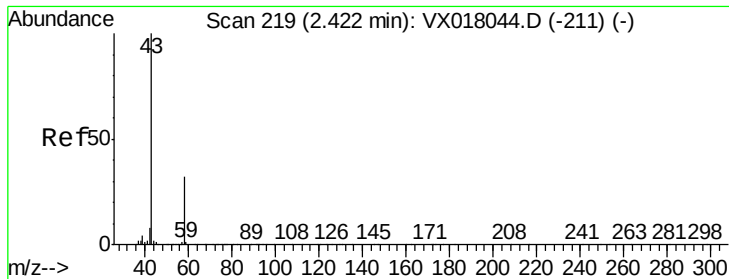


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

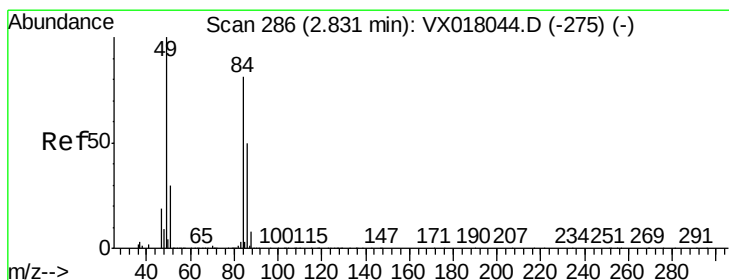
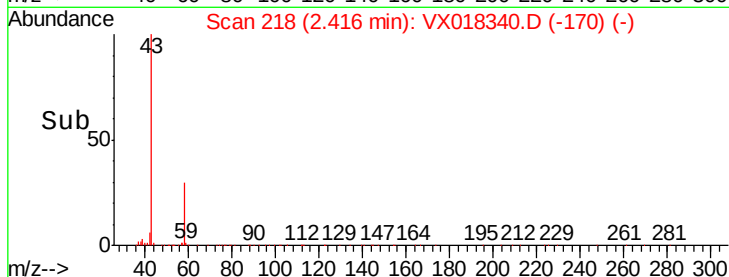
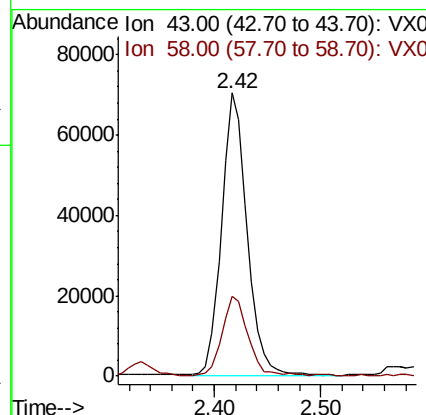
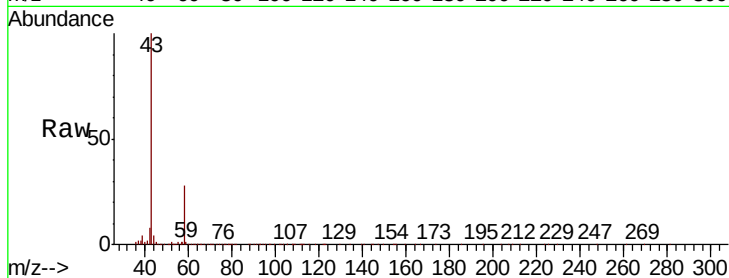




#16
Acetone
Concen: 47.756 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX018340.D
Acq: 10 Sep 2020 15:38

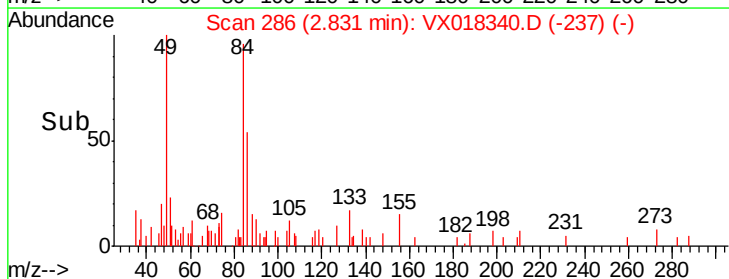
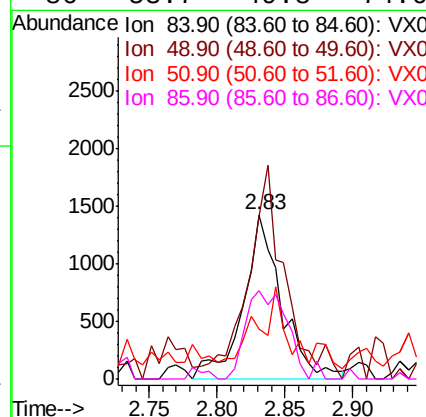
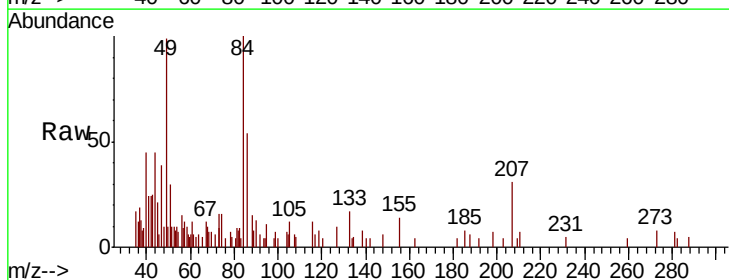
Instrument :
MSVOA_X
ClientSampleId :
16744

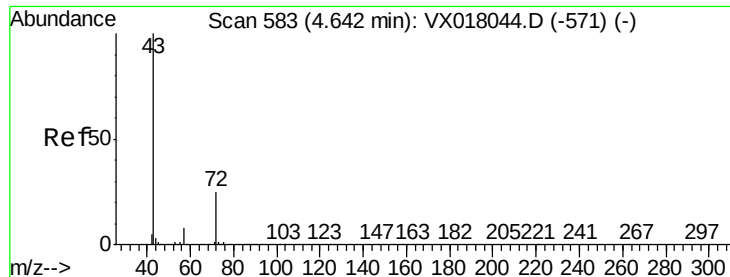
Tot Ion: 43 Resp: 116710
Ion Ratio Lower Upper
43 100
58 28.2 25.5 38.3



#20
Methylene Chloride
Concen: Below Cal
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX018340.D
Acq: 10 Sep 2020 15:38

Tgt Ion: 84 Resp: 2811
Ion Ratio Lower Upper
84 100
49 98.7 98.6 148.0
51 34.5 29.6 44.4
86 53.7 49.8 74.6

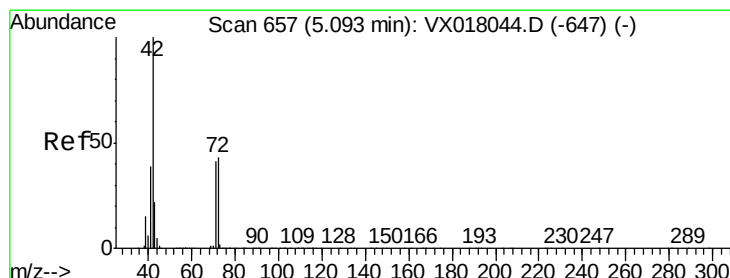
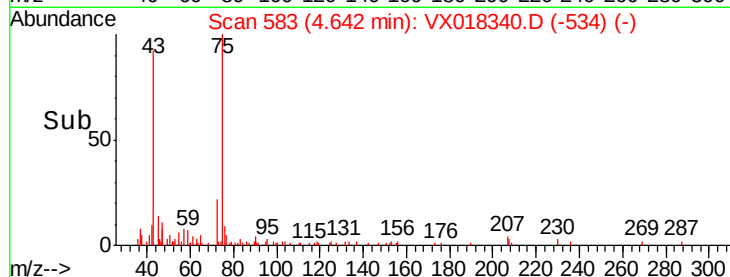
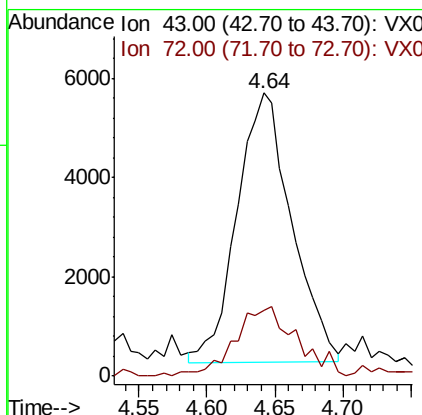
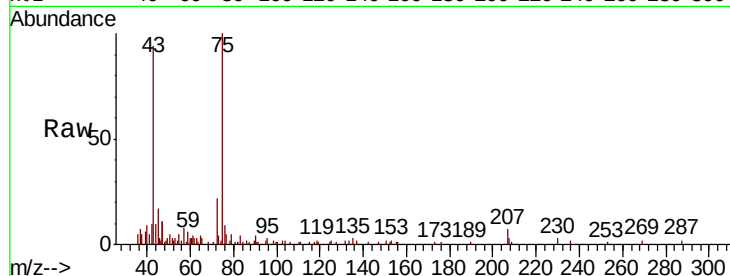




#25
2-Butanone
Concen: 3.788 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.00 min
Lab File: VX018340.D
Acq: 10 Sep 2020 15:38

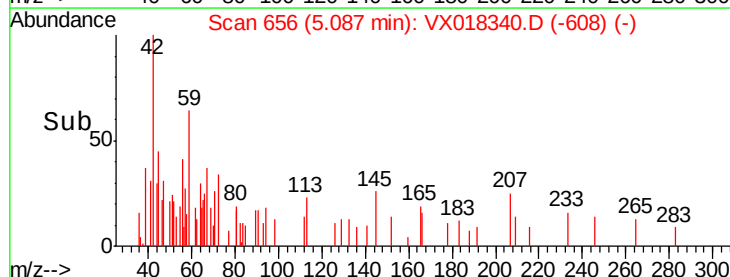
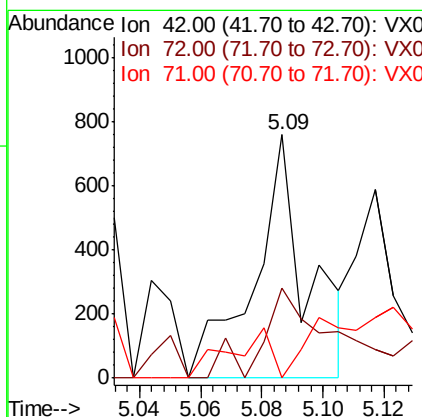
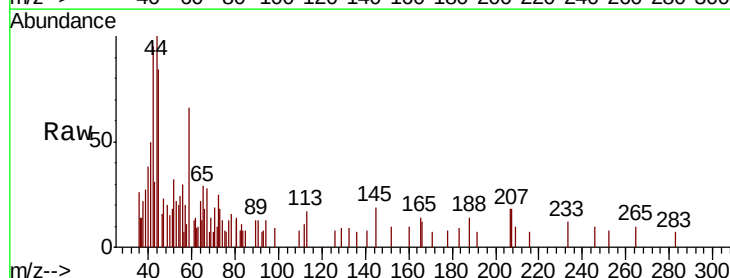
Instrument :
MSVOA_X
ClientSampleId :
16744

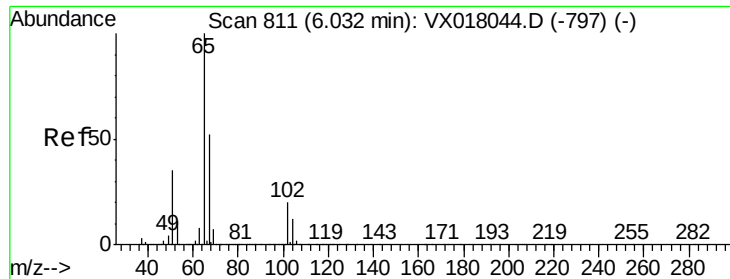
Tot Ion: 43 Resp: 15216
Ion Ratio Lower Upper
43 100
72 23.4 19.8 29.6



#29
Tetrahydrofuran
Concen: 0.354 ug/l
RT: 5.09 min Scan# 656
Delta R.T. -0.01 min
Lab File: VX018340.D
Acq: 10 Sep 2020 15:38

Tgt Ion: 42 Resp: 906
Ion Ratio Lower Upper
42 100
72 50.7 34.2 51.4
71 15.8 32.1 48.1#





#33

1,2-Dichloroethane-d4

Concen: 52.426 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX018340.D

Acq: 10 Sep 2020 15:38

Instrument :

MSVOA_X

ClientSampled :

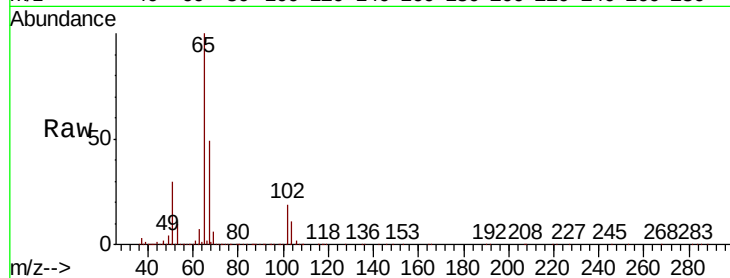
16744

Tot Ion: 65 Resp: 328805

Ion Ratio Lower Upper

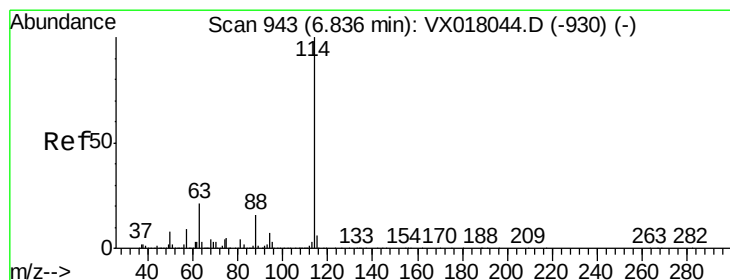
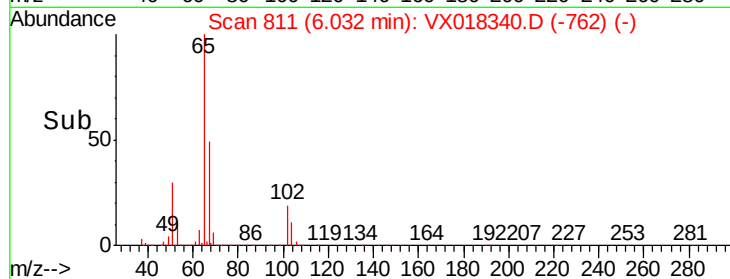
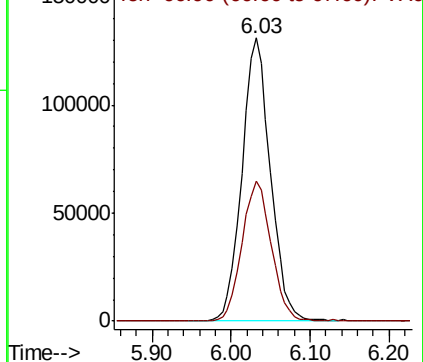
65 100

67 50.9 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.01 min

Lab File: VX018340.D

Acq: 10 Sep 2020 15:38

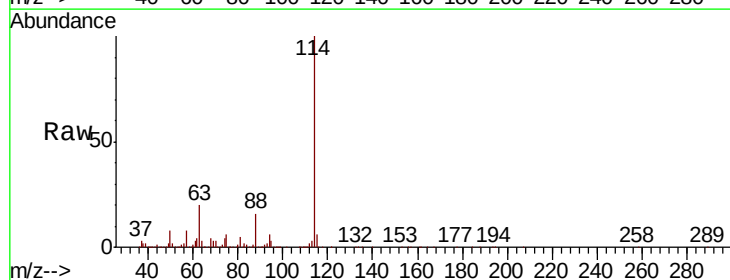
Tgt Ion: 114 Resp: 726009

Ion Ratio Lower Upper

114 100

63 19.9 0.0 42.6

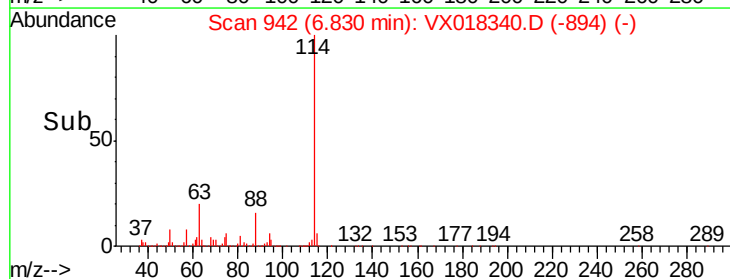
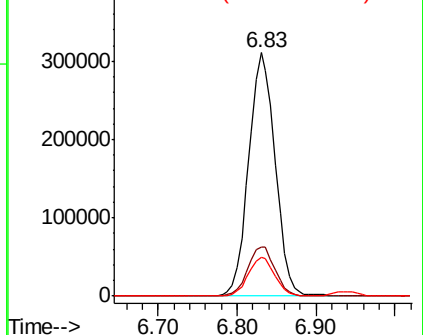
88 16.1 0.0 31.8

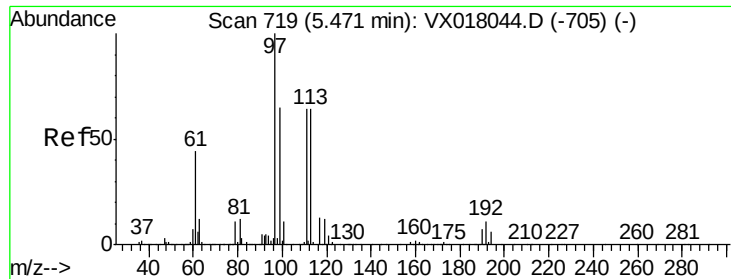


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 51.050 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX018340.D

Acq: 10 Sep 2020 15:38

Instrument :

MSVOA_X

ClientSampleId :

16744

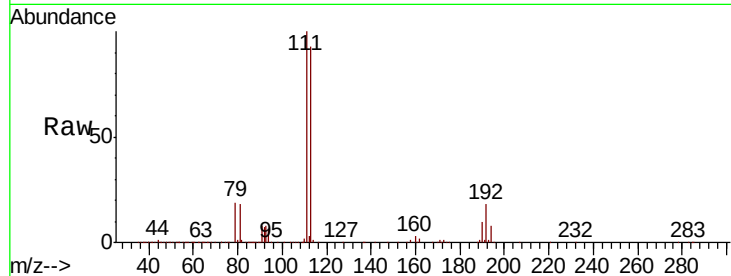
Tot Ion:113 Resp: 252417

Ion Ratio Lower Upper

113 100

111 103.8 81.6 122.4

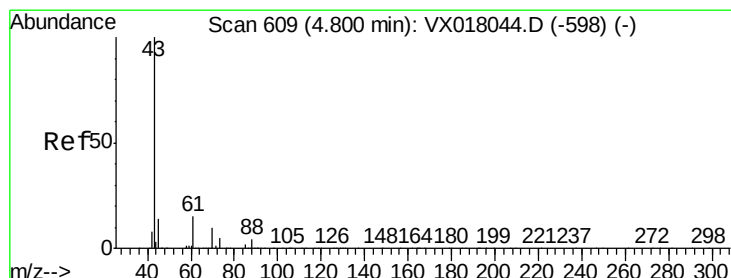
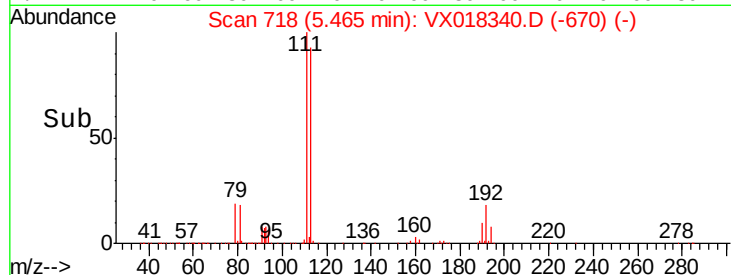
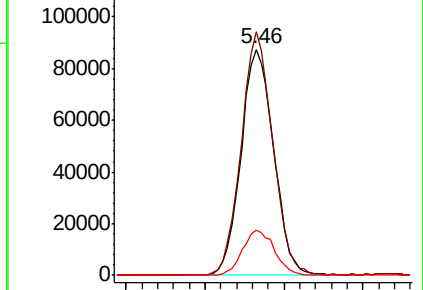
192 19.7 15.8 23.8



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



#37

Ethyl Acetate

Concen: 0.285 ug/l

RT: 4.79 min Scan# 608

Delta R.T. -0.01 min

Lab File: VX018340.D

Acq: 10 Sep 2020 15:38

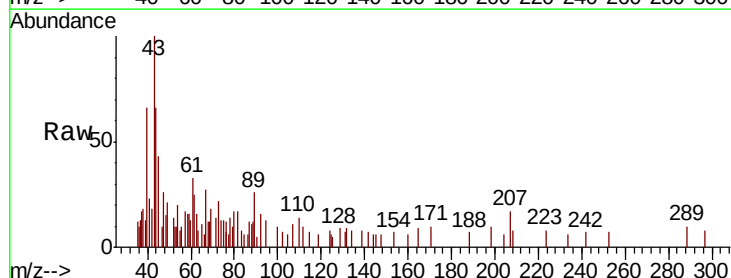
Tgt Ion: 43 Resp: 2214

Ion Ratio Lower Upper

43 100

61 25.6 11.3 16.9#

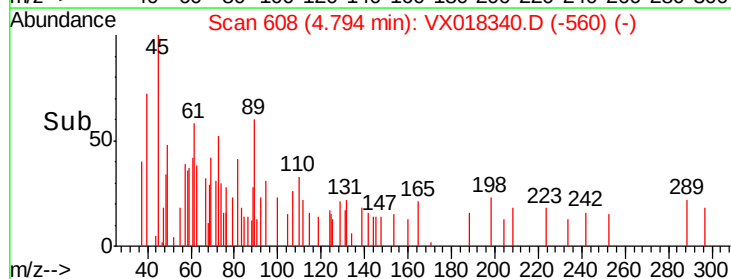
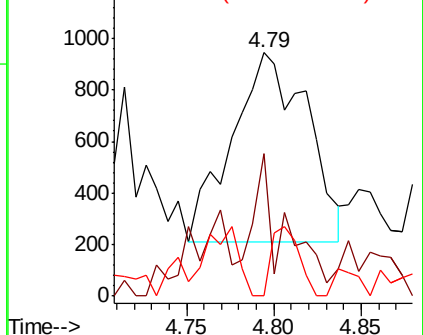
70 13.4 8.2 12.4#

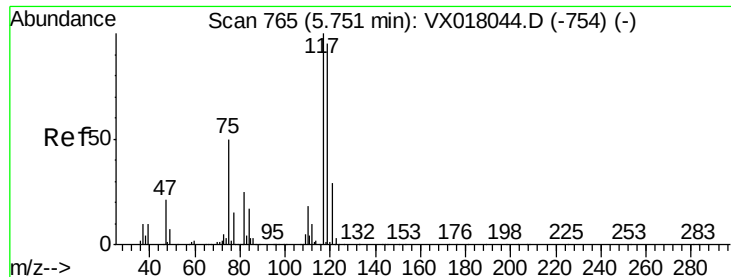


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 6.320 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX018340.D

Acq: 10 Sep 2020 15:38

Instrument :

MSVOA_X

ClientSampled :

16744

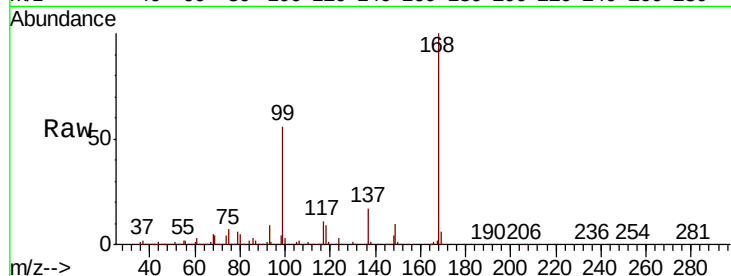
Tot Ion:117 Resp: 47690

Ion Ratio Lower Upper

117 100

119 7.1 75.8 113.6#

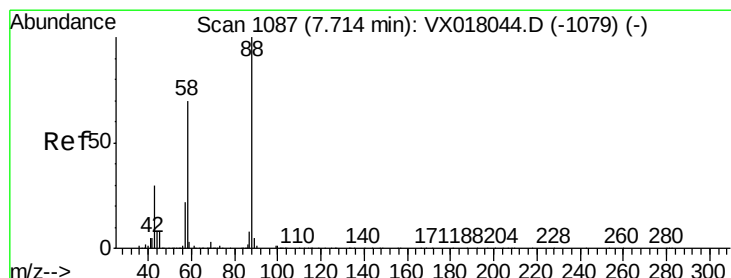
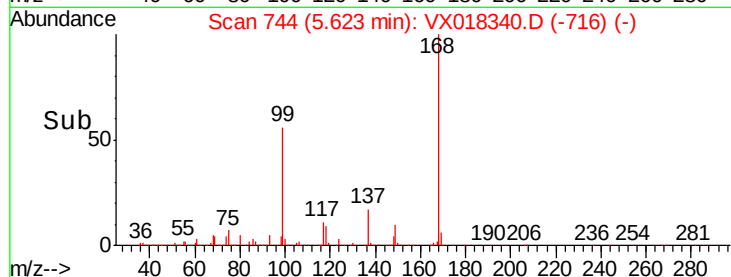
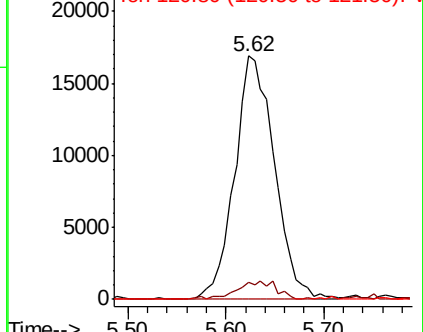
121 0.4 23.4 35.0#



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: 0.847 ug/l

RT: 7.71 min Scan# 1087

Delta R.T. 0.00 min

Lab File: VX018340.D

Acq: 10 Sep 2020 15:38

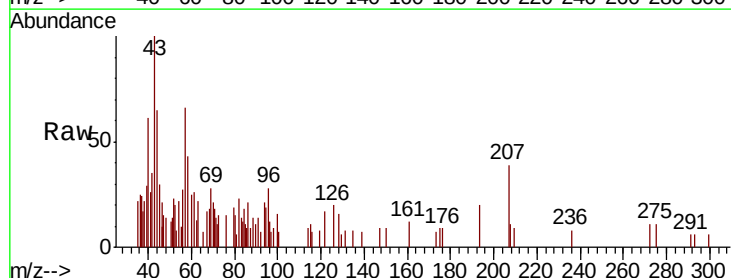
Tgt Ion: 88 Resp: 96

Ion Ratio Lower Upper

88 100

43 0.0 27.4 41.0#

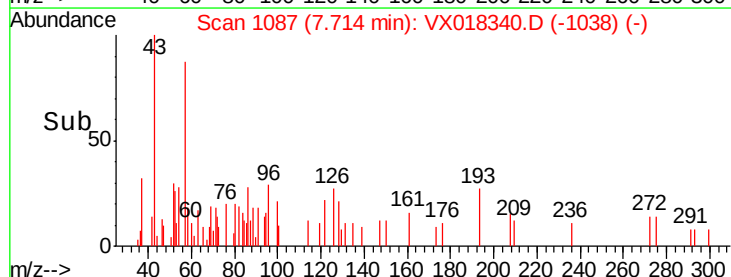
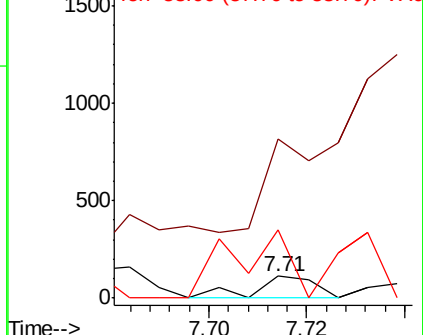
58 296.9 56.4 84.6#

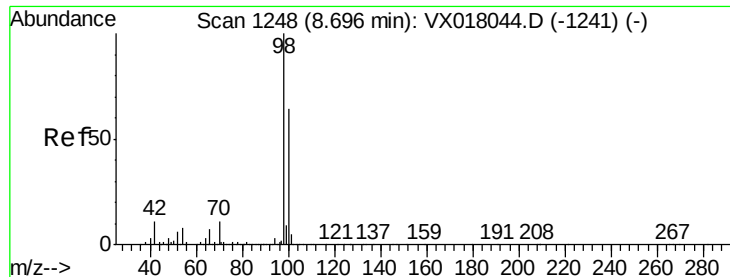


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.339 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX018340.D

Acq: 10 Sep 2020 15:38

Instrument :

MSVOA_X

ClientSampleId :

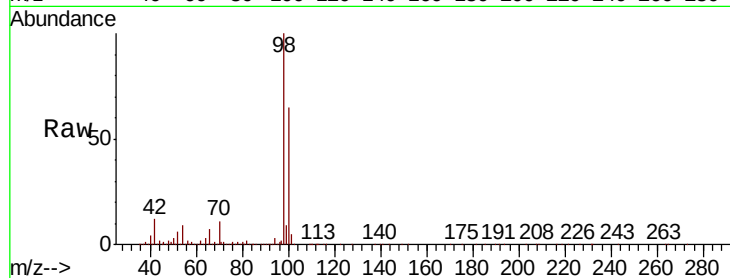
16744

Tot Ion: 98 Resp: 890203

Ion Ratio Lower Upper

98 100

100 63.6 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.70

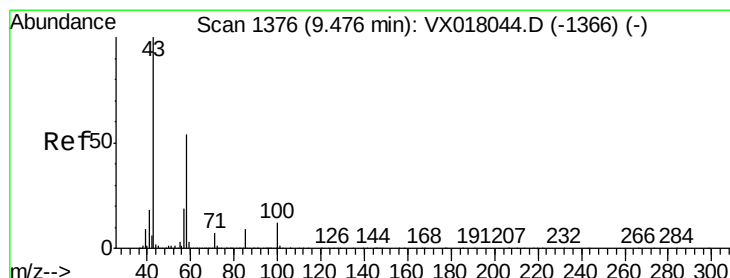
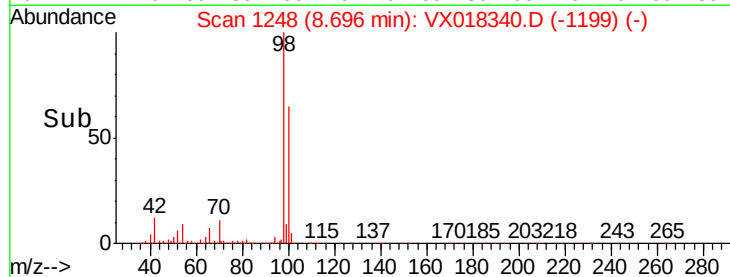
600000

400000

200000

0

Time-->



#59

2-Hexanone

Concen: 0.261 ug/l

RT: 9.48 min Scan# 1377

Delta R.T. 0.01 min

Lab File: VX018340.D

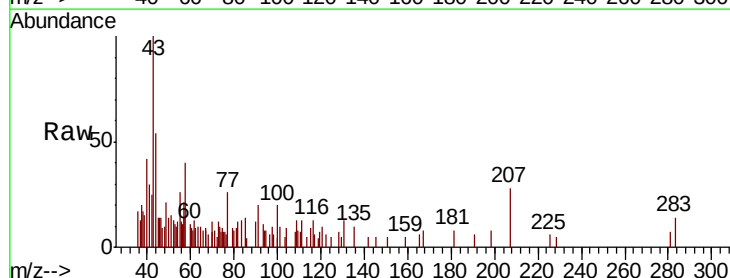
Acq: 10 Sep 2020 15:38

Tgt Ion: 43 Resp: 1541

Ion Ratio Lower Upper

43 100

58 76.5 26.6 79.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

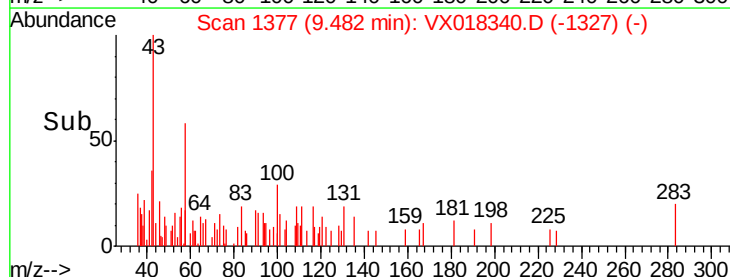
1500

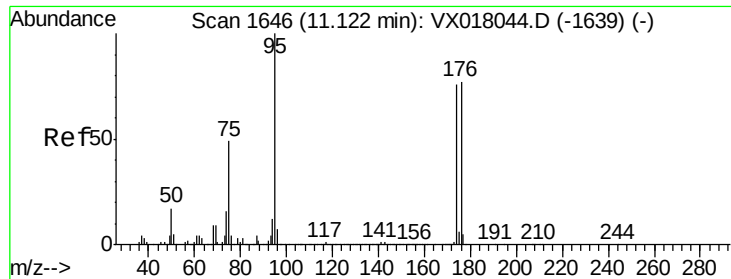
1000

500

0

Time-->





#62

4-Bromofluorobenzene

Concen: 47.275 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX018340.D

Acq: 10 Sep 2020 15:38

Instrument :

MSVOA_X

ClientSampleId :

16744

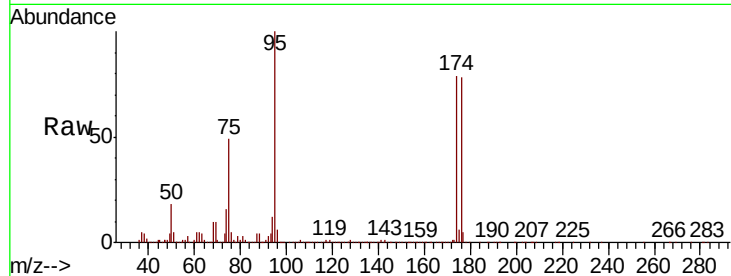
Tot Ion: 95 Resp: 342534

Ion Ratio Lower Upper

95 100

174 80.4 0.0 160.2

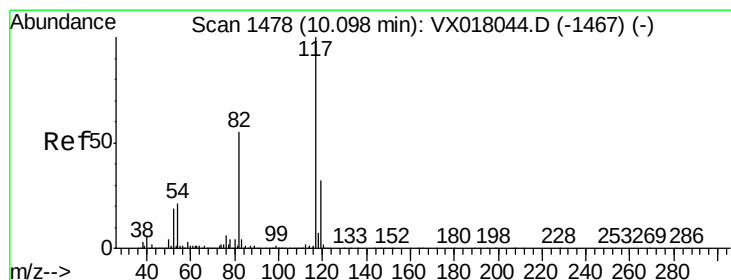
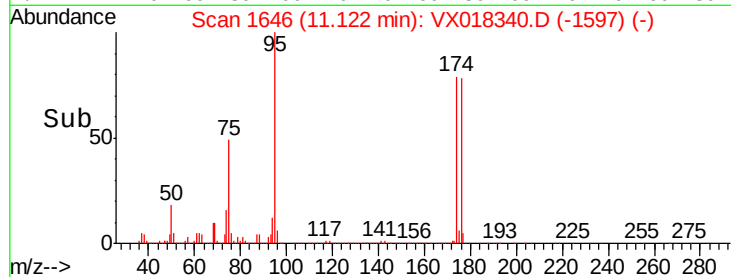
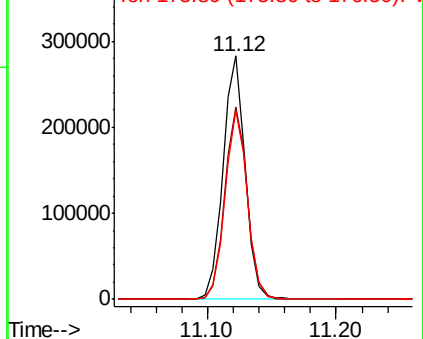
176 77.9 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX018340.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX018340.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX018340.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX018340.D

Acq: 10 Sep 2020 15:38

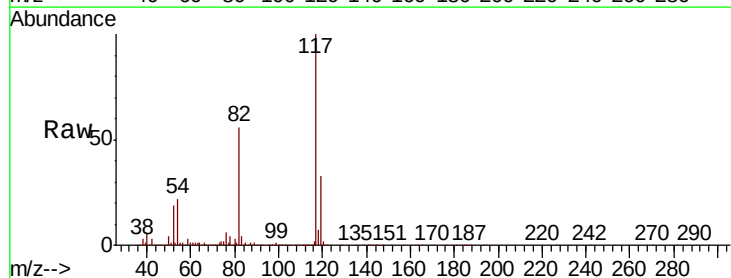
Tgt Ion: 117 Resp: 691455

Ion Ratio Lower Upper

117 100

82 55.6 44.2 66.2

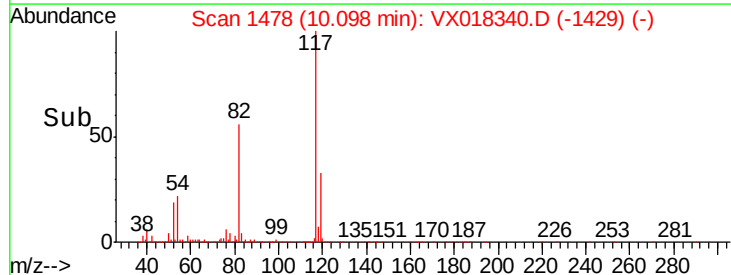
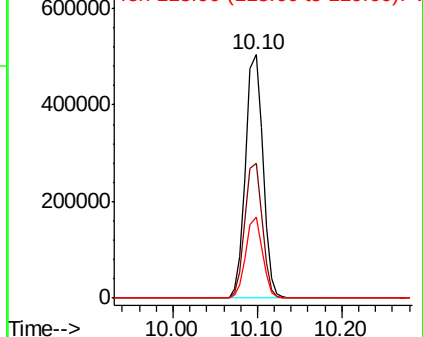
119 33.2 25.7 38.5

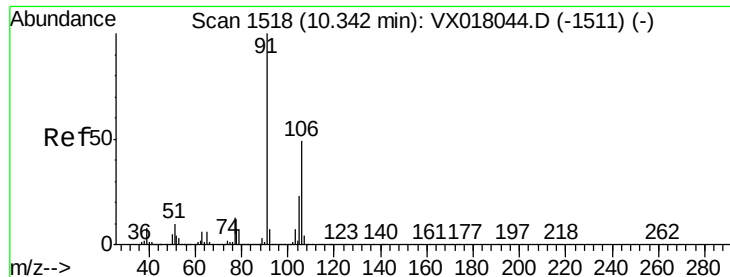


Abundance Ion 116.90 (116.60 to 117.60): VX018340.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX018340.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX018340.D (-1429) (-)





#68

m/p-Xylenes

Concen: 0.287 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. 0.00 min

Lab File: VX018340.D

Acq: 10 Sep 2020 15:38

Instrument :

MSVOA_X

ClientSampleId :

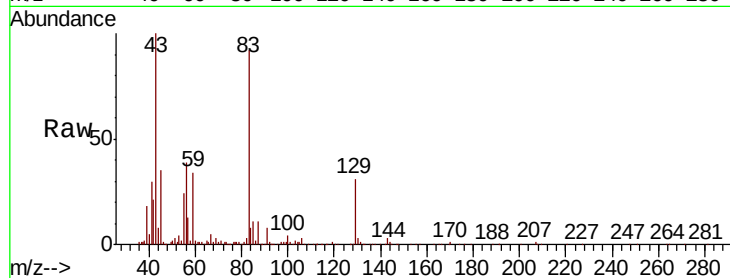
16744

Tot Ion:106 Resp: 2515

Ion Ratio Lower Upper

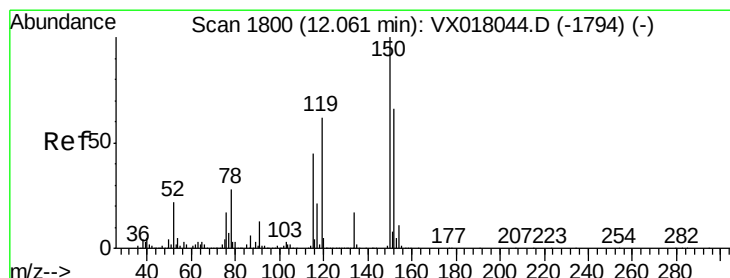
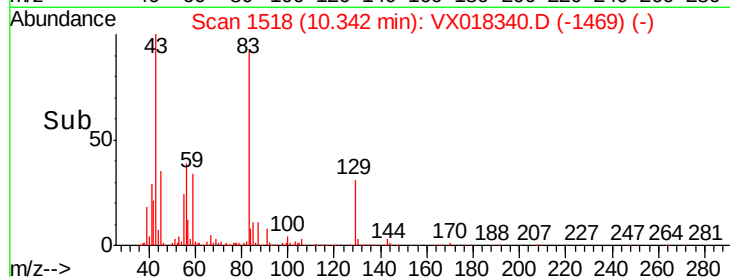
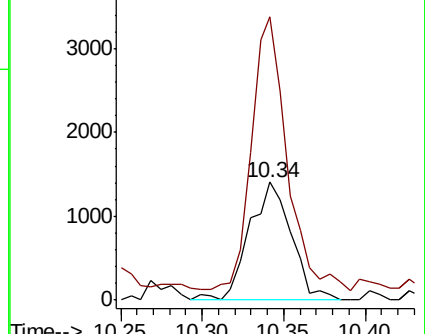
106 100

91 196.3 162.2 243.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX018340.D

Acq: 10 Sep 2020 15:38

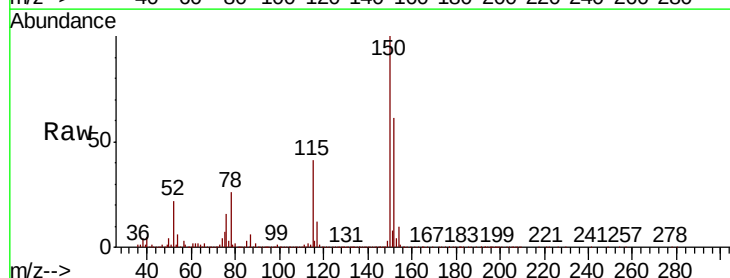
Tgt Ion:152 Resp: 349615

Ion Ratio Lower Upper

152 100

115 61.8 41.5 124.5

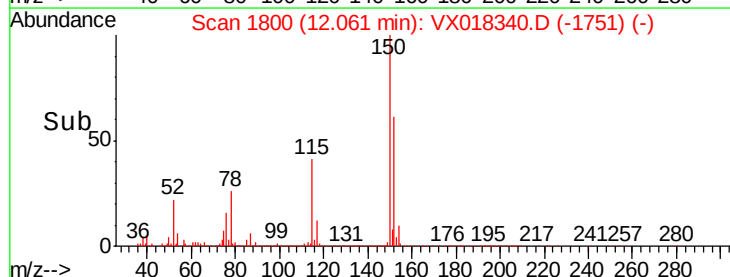
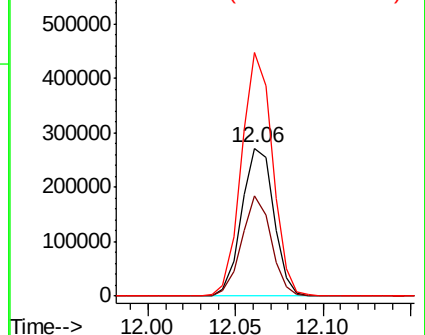
150 158.3 0.0 343.8

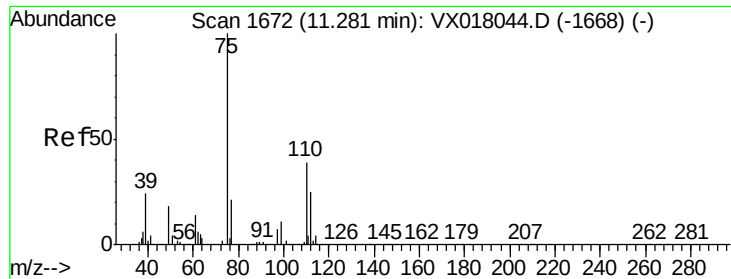


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.806 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018340.D

Acq: 10 Sep 2020 15:38

Instrument :

MSVOA_X

ClientSampled :

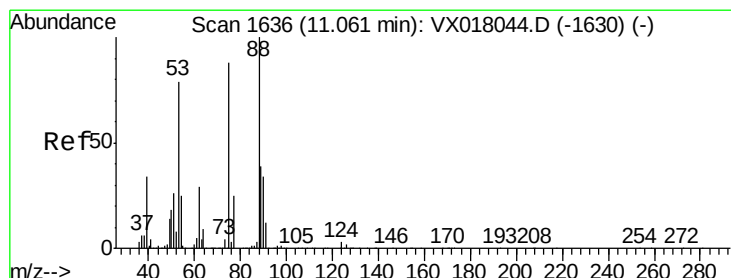
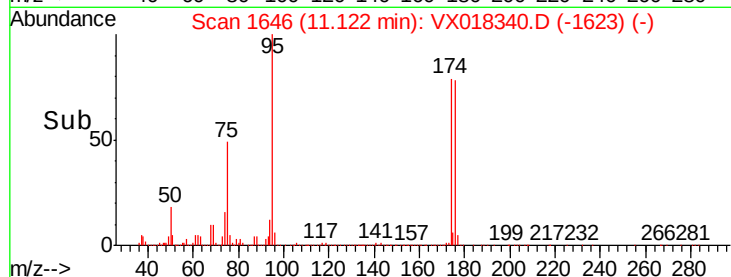
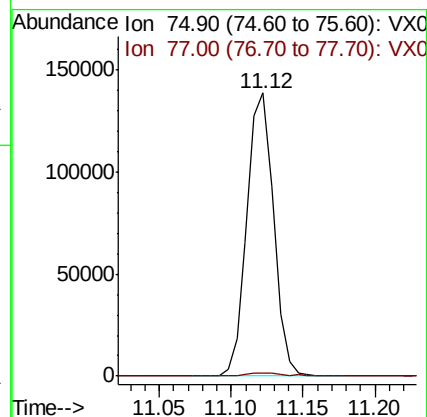
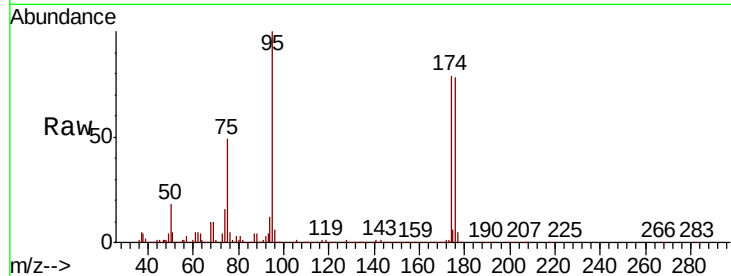
16744

Tot Ion: 75 Resp: 177370

Ion Ratio Lower Upper

75 100

77 1.7 20.8 62.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.595 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018340.D

Acq: 10 Sep 2020 15:38

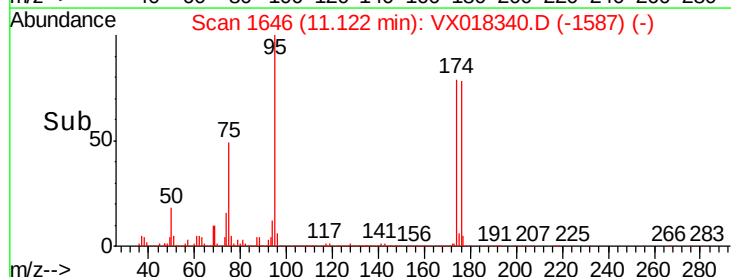
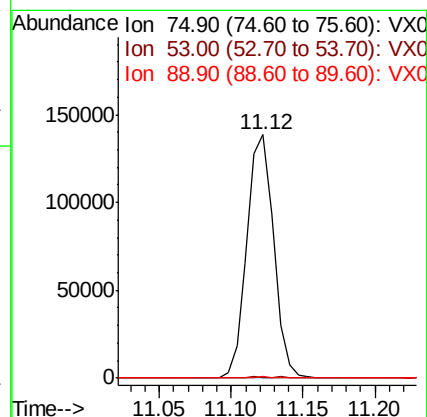
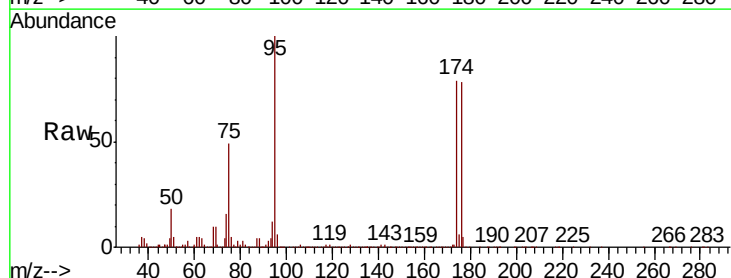
Tgt Ion: 75 Resp: 177370

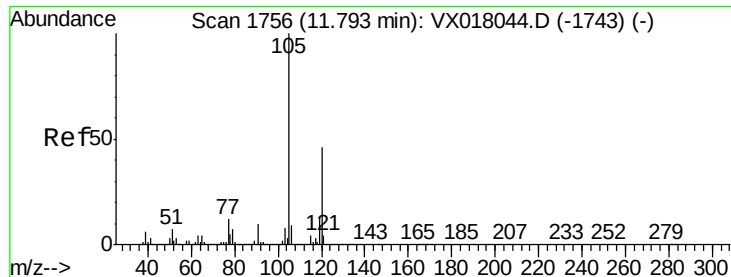
Ion Ratio Lower Upper

75 100

53 0.5 74.7 112.1#

89 0.5 36.6 54.8#





#84

1,2,4-Trimethylbenzene

Concen: 0.343 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VX018340.D

Acq: 10 Sep 2020 15:38

Instrument :

MSVOA_X

ClientSampleId :

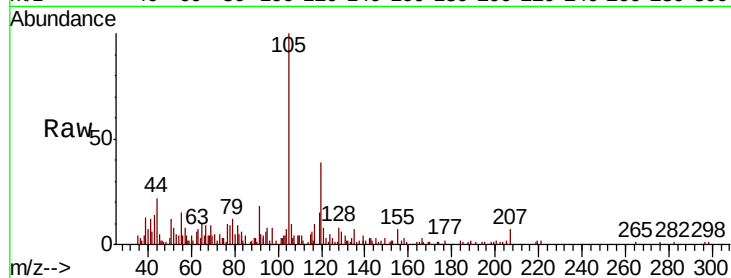
16744

Tot Ion:105 Resp: 6639

Ion Ratio Lower Upper

105 100

120 38.3 22.3 66.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

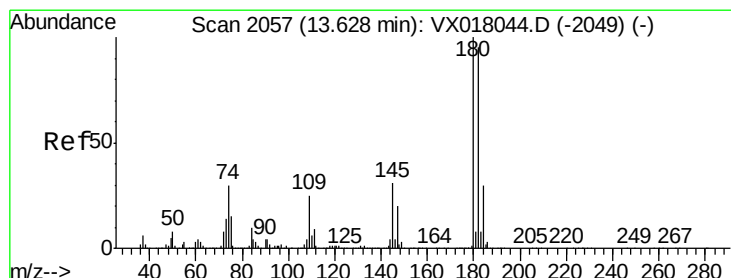
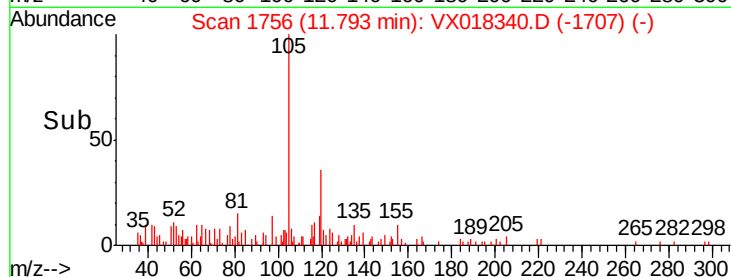
6000

4000

2000

0

Time--> 11.70 11.75 11.80 11.85



#93

1,2,4-Trichlorobenzene

Concen: 0.219 ug/l

RT: 13.63 min Scan# 2058

Delta R.T. 0.01 min

Lab File: VX018340.D

Acq: 10 Sep 2020 15:38

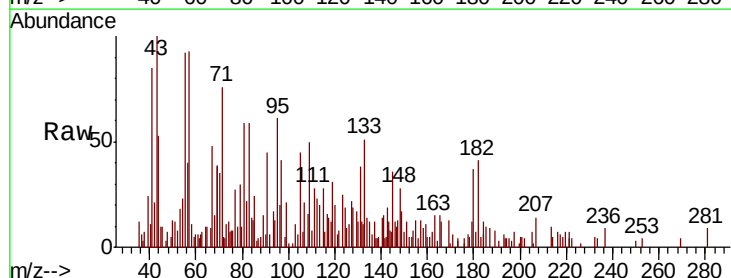
Tgt Ion:180 Resp: 1535

Ion Ratio Lower Upper

180 100

182 135.6 47.5 142.6

145 88.0 15.7 47.1#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

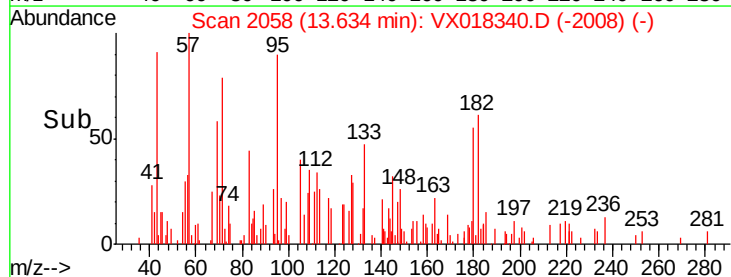
1500

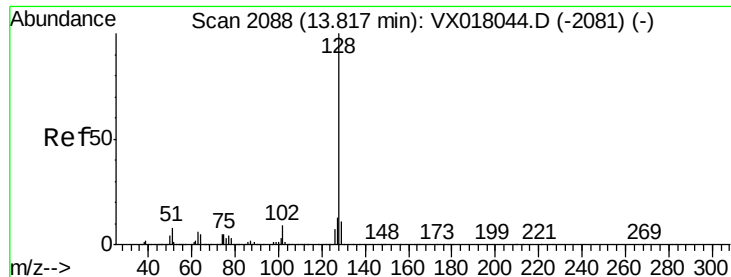
1000

500

0

Time--> 13.60 13.65





#95
Naphthalene
Concen: 0.577 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. 0.00 min
Lab File: VX018340.D
Acq: 10 Sep 2020 15:38

Instrument :
MSVOA_X
ClientSampleId :
16744

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.2	15.2
129	15.4	8.7	13.1

