

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081920\
 Data File : VX017992.D
 Acq On : 19 Aug 2020 17:59
 Operator : JC/SP
 Sample : L3712-15 100X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VB-25860

Quant Time: Aug 20 04:20:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081920W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 19 05:36:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	471752	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	737557	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	694394	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	346666	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	318836	46.10	ug/l	0.00
Spiked Amount			Recovery	=	92.20%	
35) Dibromofluoromethane	5.46	113	262816	47.85	ug/l	0.00
Spiked Amount			Recovery	=	95.70%	
50) Toluene-d8	8.70	98	897798	46.24	ug/l	0.00
Spiked Amount			Recovery	=	92.48%	
62) 4-Bromofluorobenzene	11.12	95	333738	46.54	ug/l	0.00
Spiked Amount			Recovery	=	93.08%	

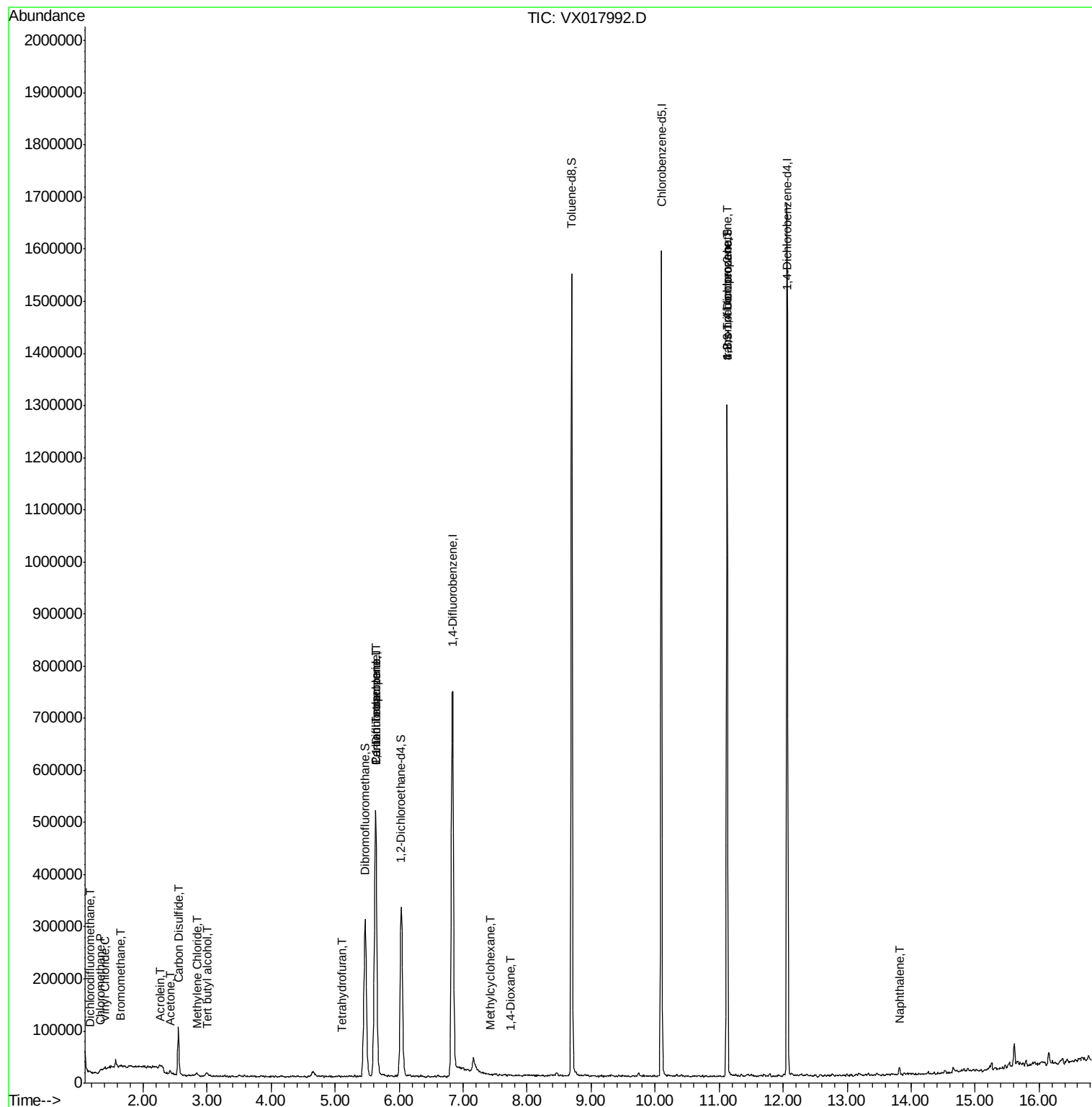
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	314	1.032	ug/l	96
3) Chloromethane	1.33	50	1742	0.270	ug/l #	53
4) Vinyl Chloride	1.40	62	100	2.274	ug/l #	1
5) Bromomethane	1.65	94	1125	0.312	ug/l #	2
11) Tert butyl alcohol	3.00	59	3958	2.964	ug/l	95
13) Acrolein	2.27	56	226	0.320	ug/l #	1
16) Acetone	2.42	43	8871	3.261	ug/l #	84
17) Carbon Disulfide	2.55	76	110682	10.728	ug/l	98
20) Methylene Chloride	2.84	84	2967	0.592	ug/l #	74
29) Tetrahydrofuran	5.11	42	741	0.290	ug/l #	54
36) 1,1-Dichloropropene	5.63	75	36037	5.837	ug/l #	52
38) Carbon Tetrachloride	5.64	117	49688	6.219	ug/l #	17
39) Methylcyclohexane	7.43	83	308	0.851	ug/l #	17
49) 1,4-Dioxane	7.73	88	190	1.570	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	166375	22.568	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	166375	59.287	ug/l #	12
95) Naphthalene	13.82	128	9948	0.461	ug/l	97

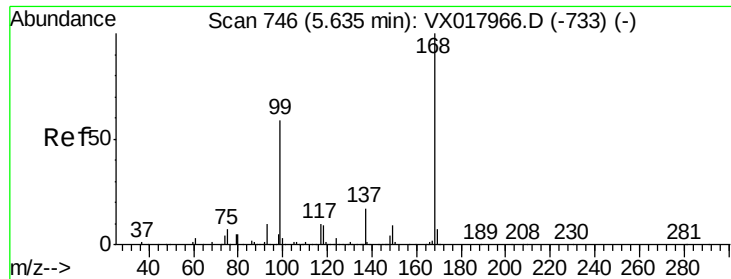
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 19 05:36:51 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.00 min

Lab File: VX017992.D

Acq: 19 Aug 2020 17:59

Instrument :

MSVOA_X

ClientSampleId :

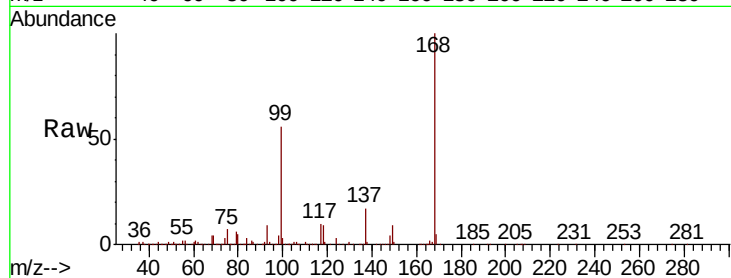
VB-25860

Tot Ion:168 Resp: 471752

Ion Ratio Lower Upper

168 100

99 55.6 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

200000

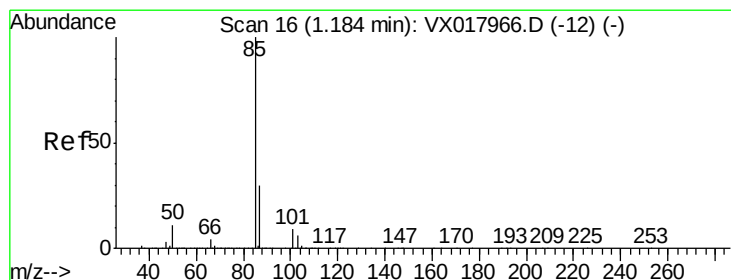
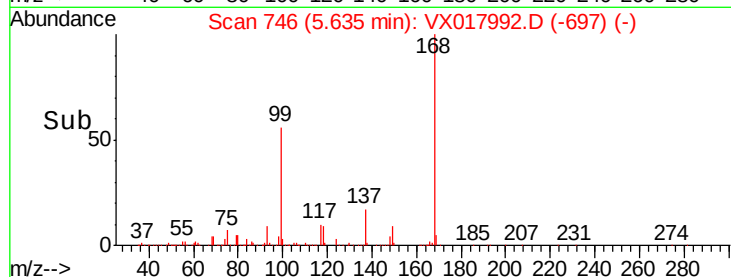
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 1.032 ug/l

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX017992.D

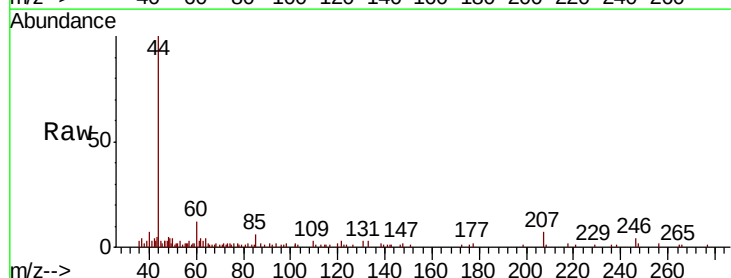
Acq: 19 Aug 2020 17:59

Tgt Ion: 85 Resp: 314

Ion Ratio Lower Upper

85 100

87 32.5 15.3 45.8



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

400

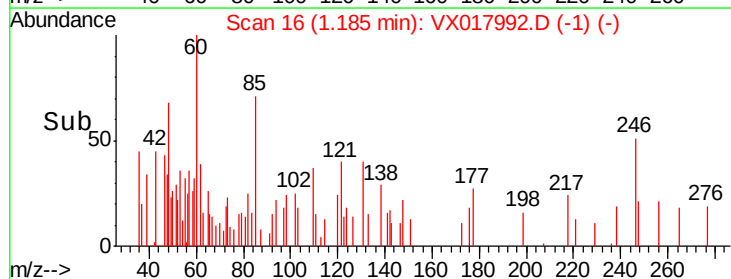
300

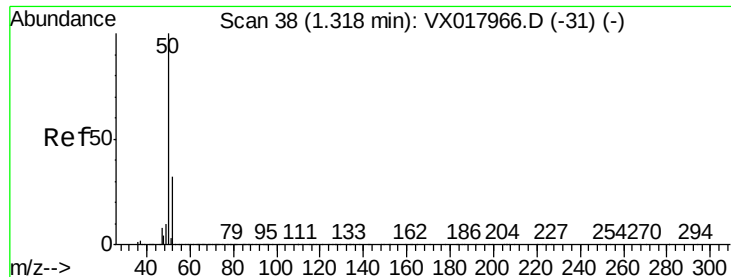
200

100

0

Time-->





#3

Chloromethane

Concen: 0.270 ug/l

RT: 1.33 min Scan# 40

Delta R.T. 0.01 min

Lab File: VX017992.D

Acq: 19 Aug 2020 17:59

Instrument :

MSVOA_X

ClientSampleId :

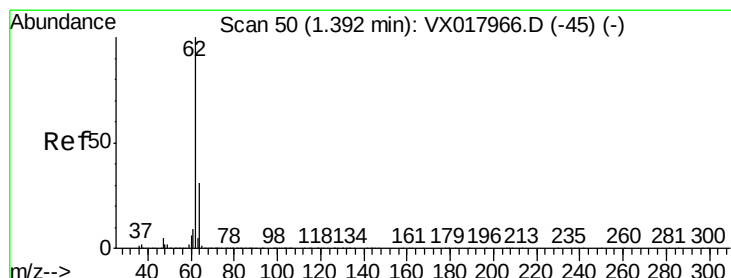
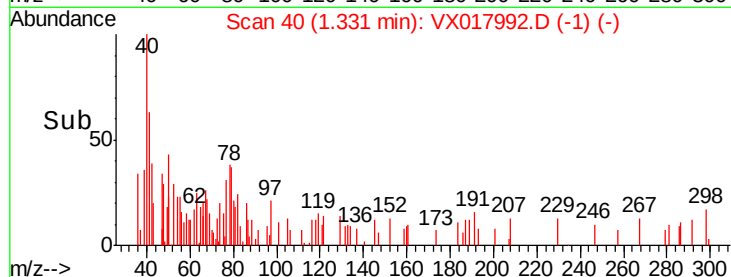
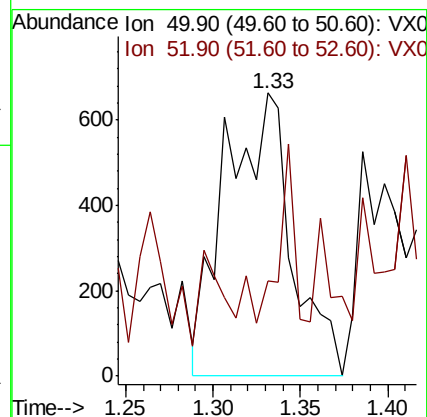
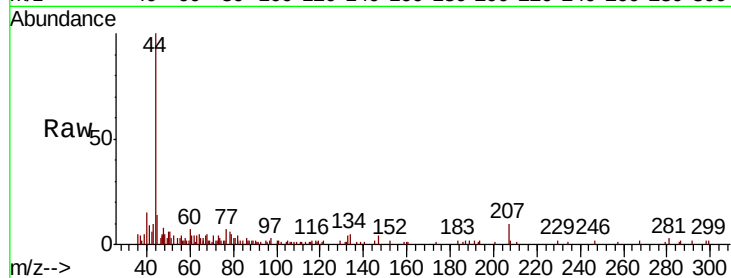
VB-25860

Tot Ion: 50 Resp: 1742

Ion Ratio Lower Upper

50 100

52 5.6 25.4 38.0#



#4

Vinyl Chloride

Concen: 2.274 ug/l

RT: 1.40 min Scan# 52

Delta R.T. 0.01 min

Lab File: VX017992.D

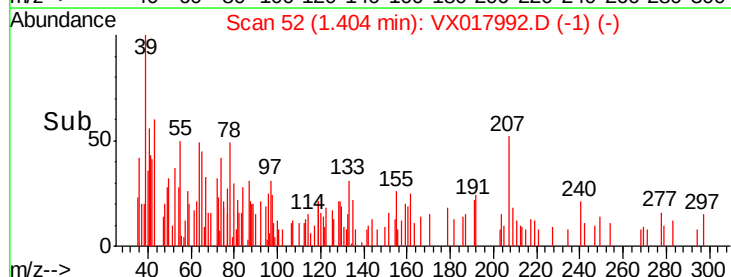
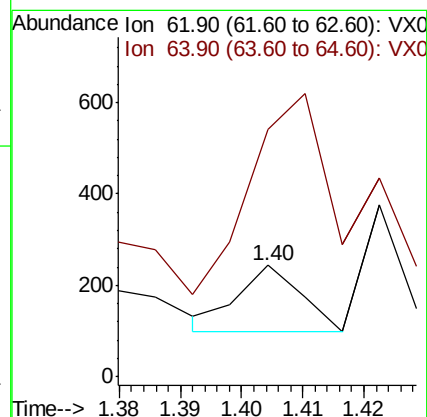
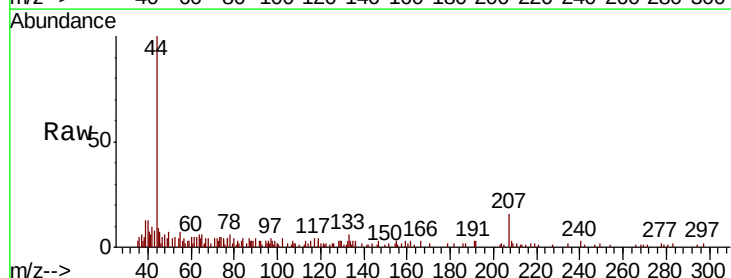
Acq: 19 Aug 2020 17:59

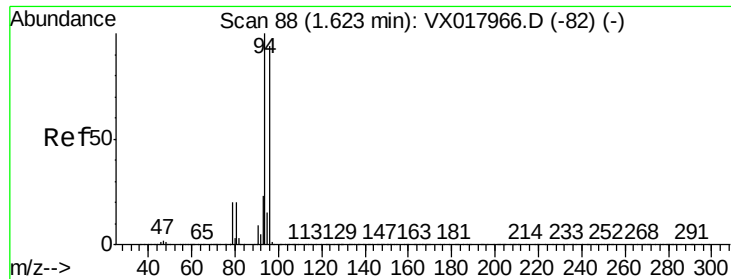
Tgt Ion: 62 Resp: 100

Ion Ratio Lower Upper

62 100

64 94.5 24.7 37.1#





#5

Bromomethane

Concen: 0.312 ug/l

RT: 1.65 min Scan# 93

Delta R.T. 0.03 min

Lab File: VX017992.D

Acq: 19 Aug 2020 17:59

Instrument :

MSVOA_X

ClientSampleId :

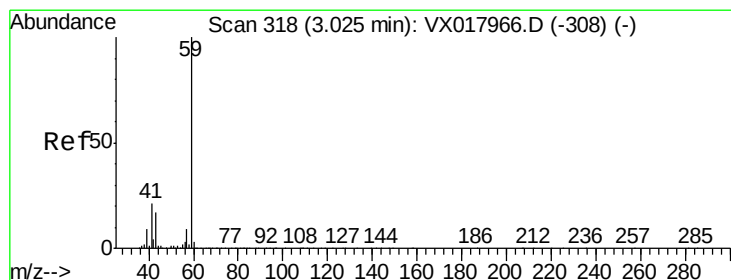
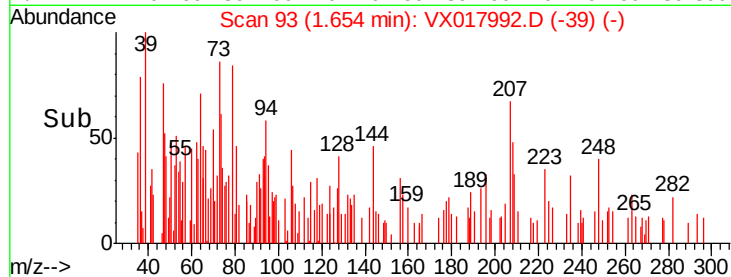
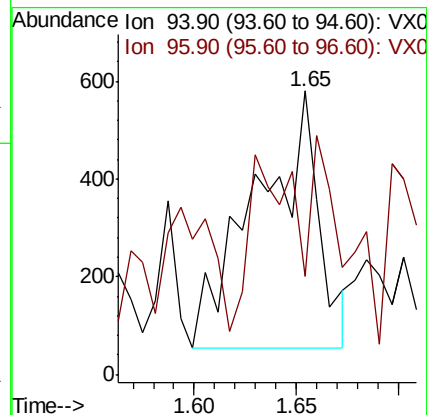
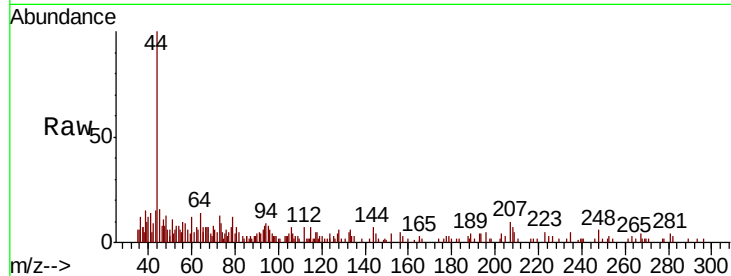
VB-25860

Tot Ion: 94 Resp: 1125

Ion Ratio Lower Upper

94 100

96 0.0 75.5 113.3#



#11

Tert butyl alcohol

Concen: 2.964 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.03 min

Lab File: VX017992.D

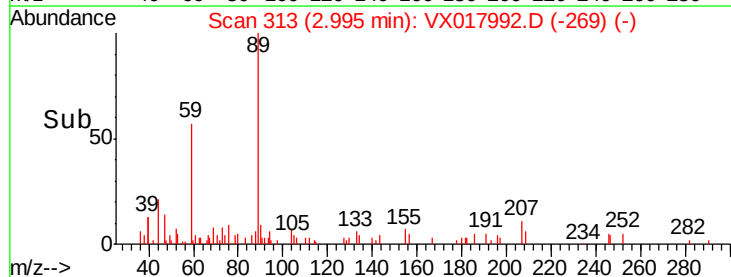
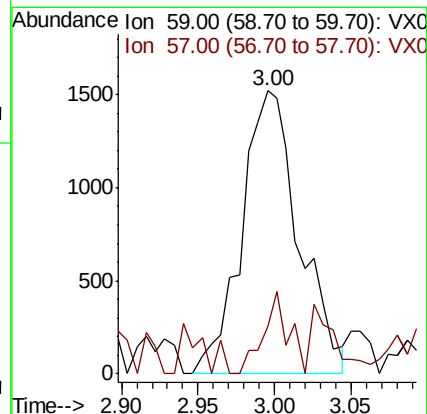
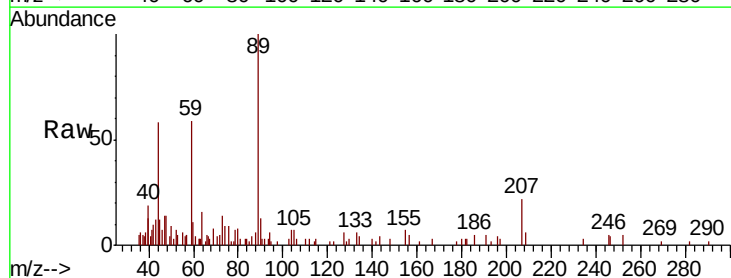
Acq: 19 Aug 2020 17:59

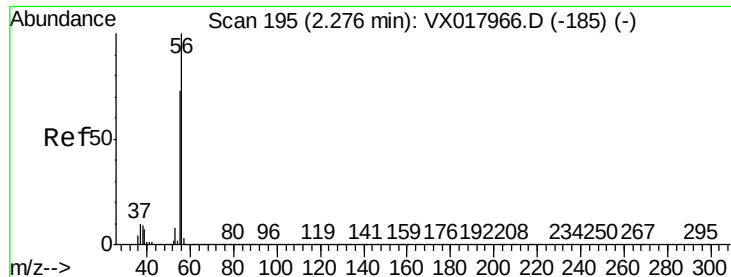
Tgt Ion: 59 Resp: 3958

Ion Ratio Lower Upper

59 100

57 12.7 8.6 13.0





#13

Acrolein

Concen: 0.320 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.01 min

Lab File: VX017992.D

Acq: 19 Aug 2020 17:59

Instrument :

MSVOA_X

ClientSampled :

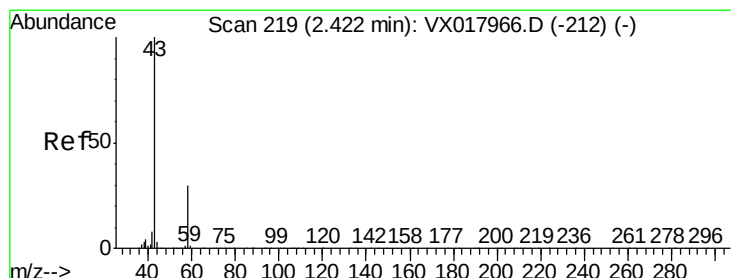
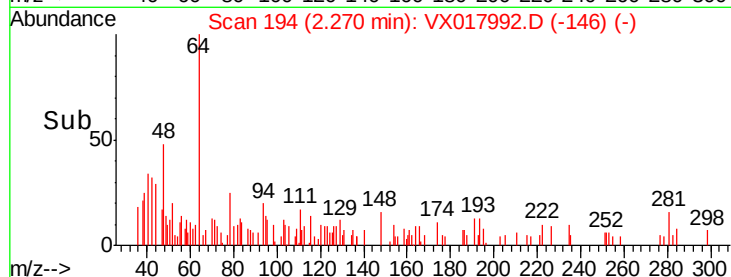
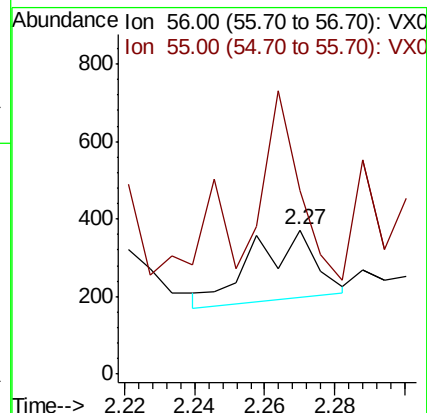
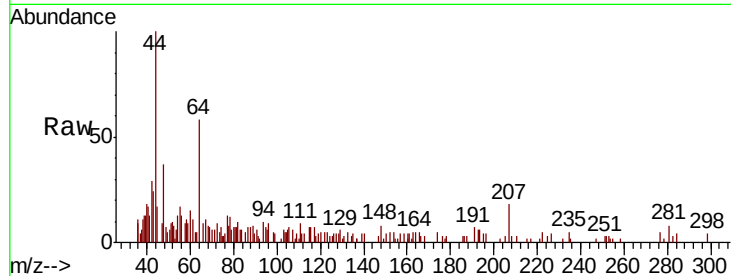
VB-25860

Tot Ion: 56 Resp: 226

Ion Ratio Lower Upper

56 100

55 375.2 58.2 87.4#



#16

Acetone

Concen: 3.261 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.00 min

Lab File: VX017992.D

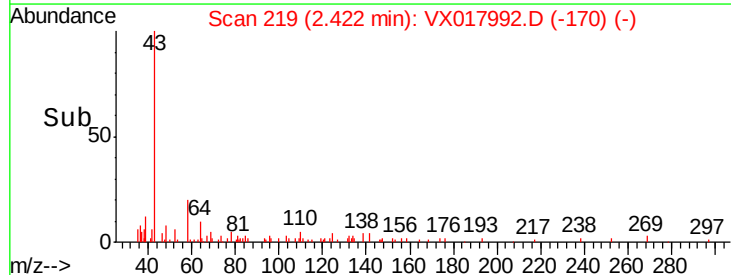
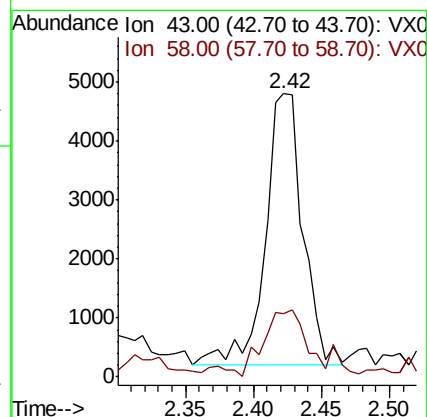
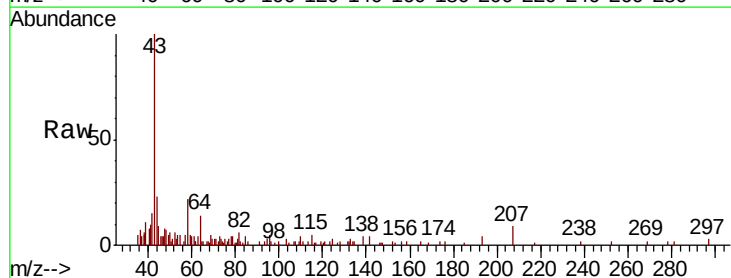
Acq: 19 Aug 2020 17:59

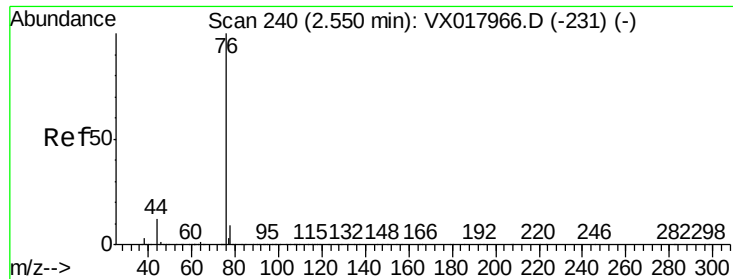
Tgt Ion: 43 Resp: 8871

Ion Ratio Lower Upper

43 100

58 21.2 23.8 35.8#





#17

Carbon Disulfide

Concen: 10.728 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX017992.D

Acq: 19 Aug 2020 17:59

Instrument :

MSVOA_X

ClientSampleId :

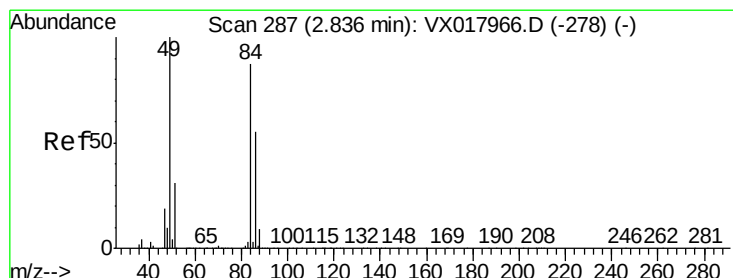
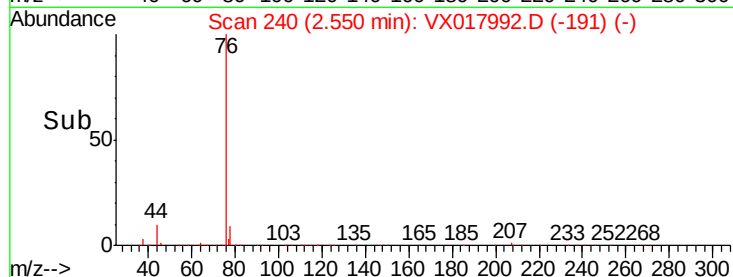
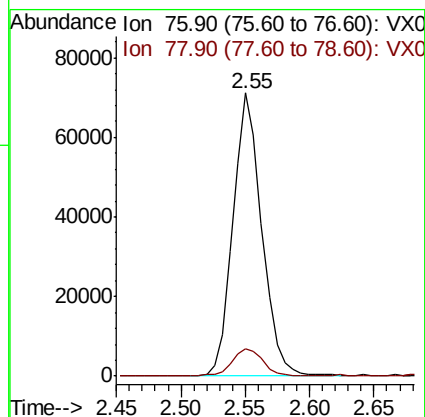
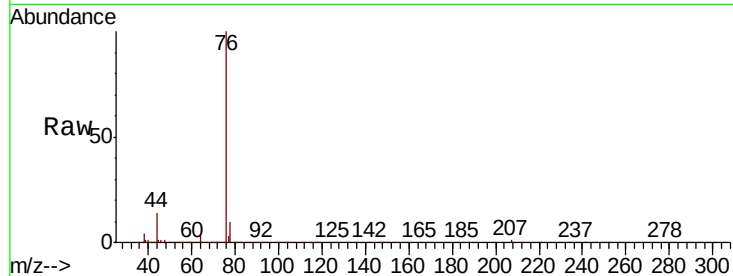
VB-25860

Tot Ion: 76 Resp: 110682

Ion Ratio Lower Upper

76 100

78 9.7 7.3 10.9



#20

Methylene Chloride

Concen: 0.592 ug/l

RT: 2.84 min Scan# 288

Delta R.T. 0.01 min

Lab File: VX017992.D

Acq: 19 Aug 2020 17:59

Tgt Ion: 84 Resp: 2967

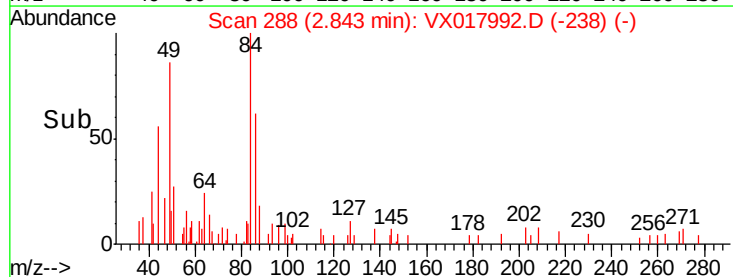
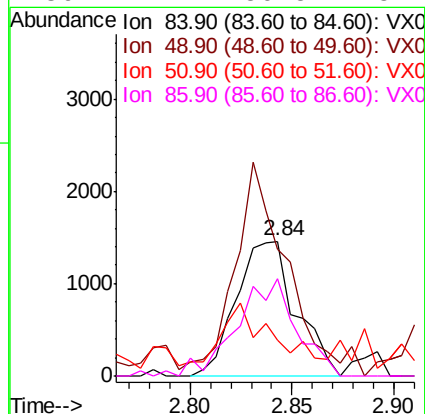
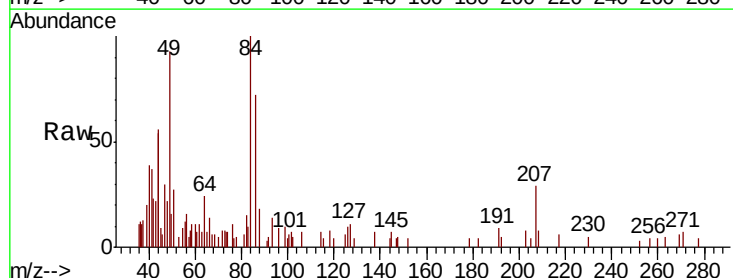
Ion Ratio Lower Upper

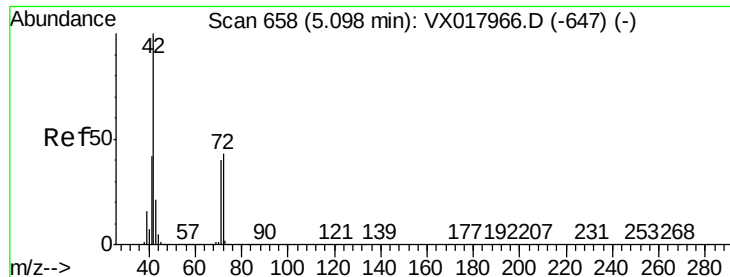
84 100

49 84.2 91.8 137.6#

51 8.1 27.8 41.8#

86 72.2 50.5 75.7





#29

Tetrahydrofuran

Concen: 0.290 ug/l

RT: 5.11 min Scan# 660

Delta R.T. 0.01 min

Lab File: VX017992.D

Acq: 19 Aug 2020 17:59

Instrument :

MSVOA_X

ClientSampled :

VB-25860

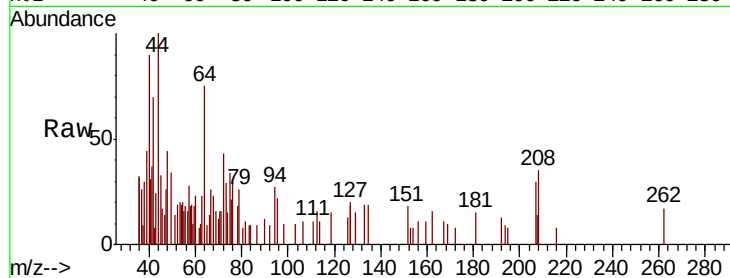
Tot Ion: 42 Resp: 741

Ion Ratio Lower Upper

42 100

72 76.9 35.9 53.9#

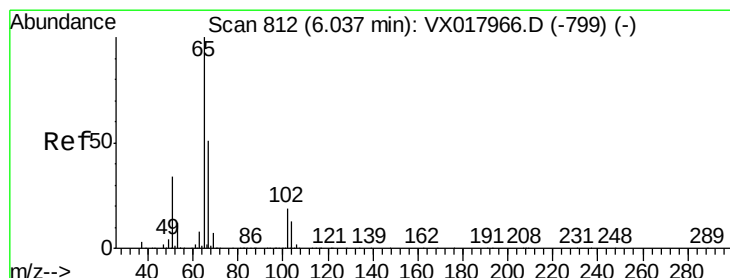
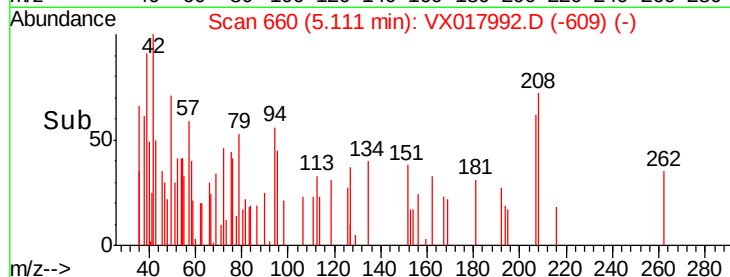
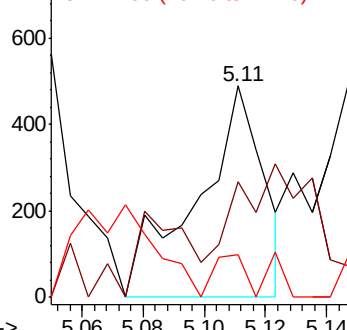
71 14.6 33.0 49.4#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 46.104 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.01 min

Lab File: VX017992.D

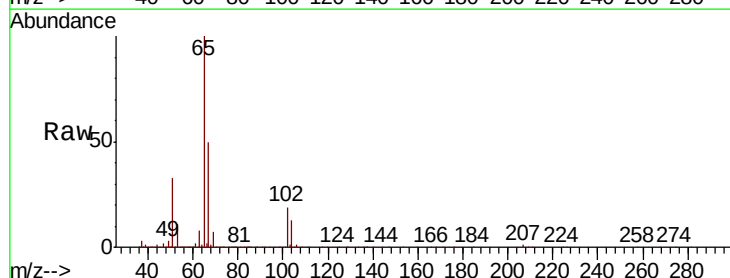
Acq: 19 Aug 2020 17:59

Tgt Ion: 65 Resp: 318836

Ion Ratio Lower Upper

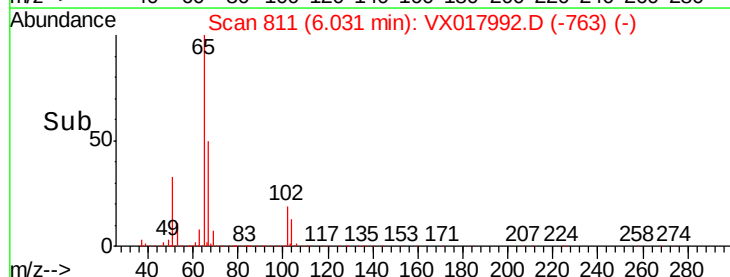
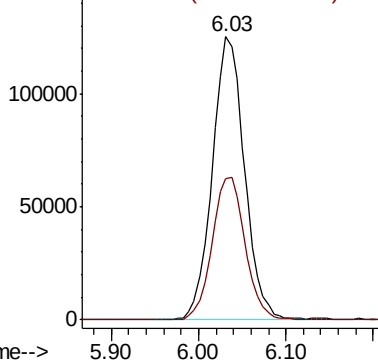
65 100

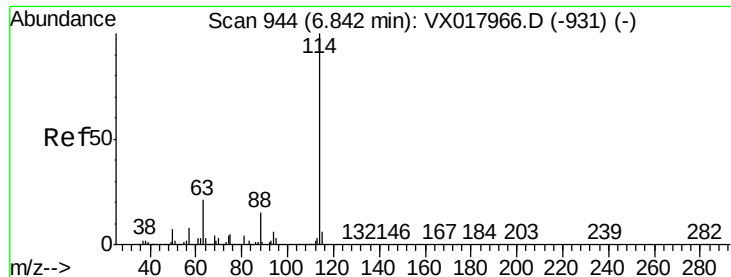
67 52.0 0.0 103.0



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: 6.84 min Scan# 943

Delta R.T. -0.01 min

Lab File: VX017992.D

Acq: 19 Aug 2020 17:59

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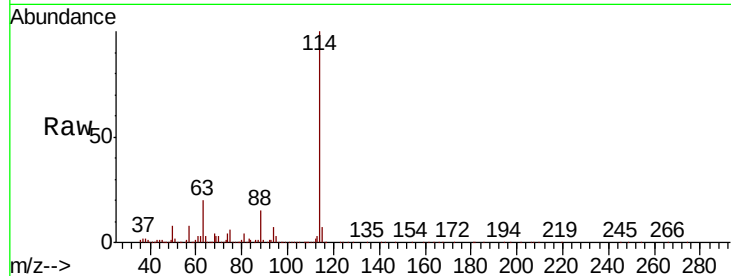
Tot Ion:114 Resp: 737557

Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.6

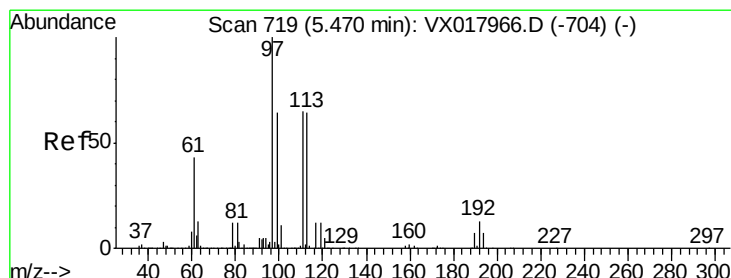
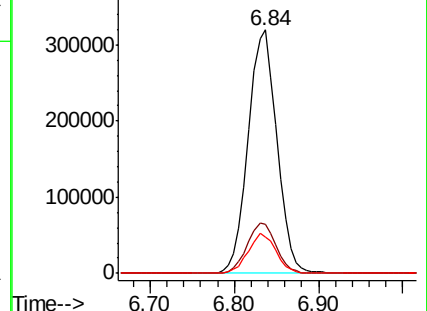
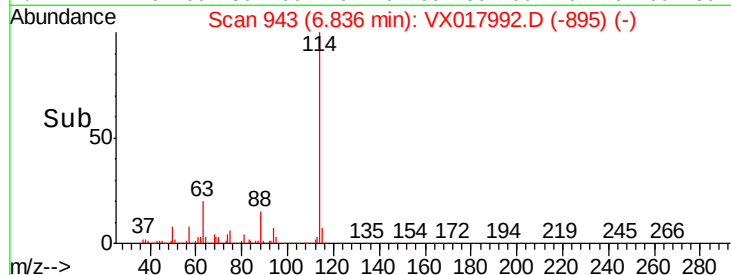
88 14.7 0.0 30.2



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: 47.850 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX017992.D

Acq: 19 Aug 2020 17:59

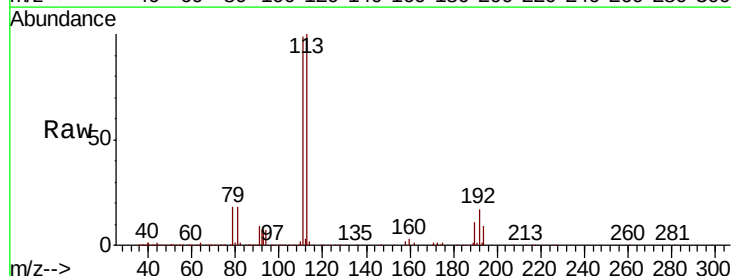
Tgt Ion:113 Resp: 262816

Ion Ratio Lower Upper

113 100

111 102.4 83.5 125.3

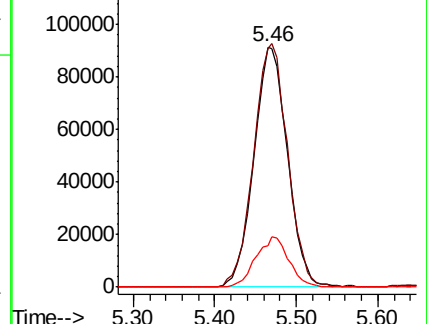
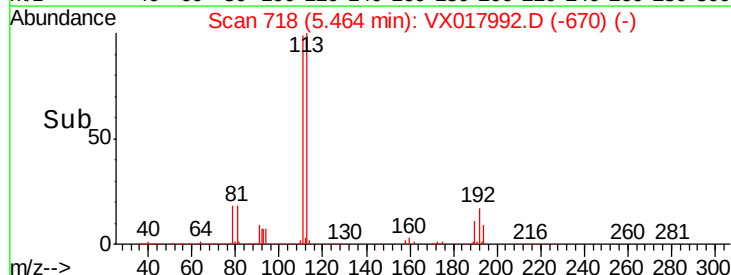
192 20.3 16.2 24.4

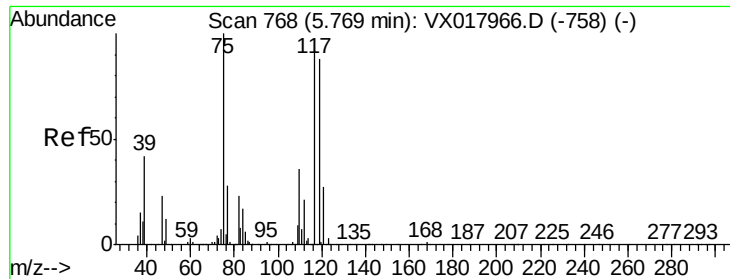


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

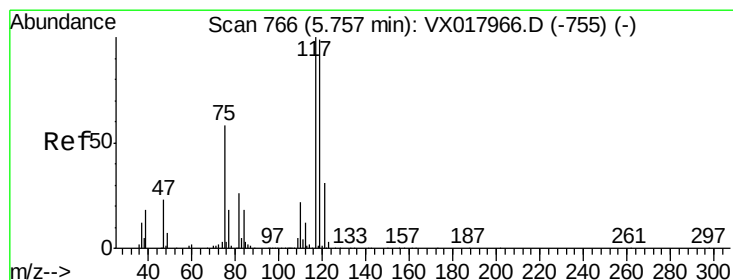
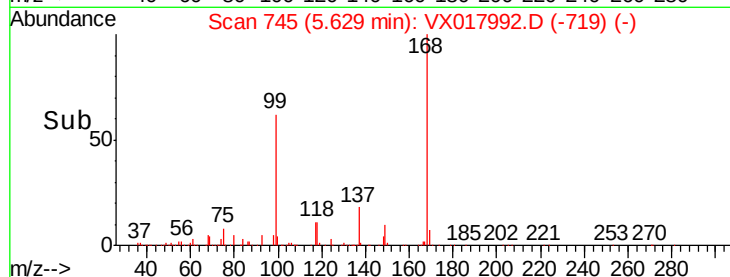
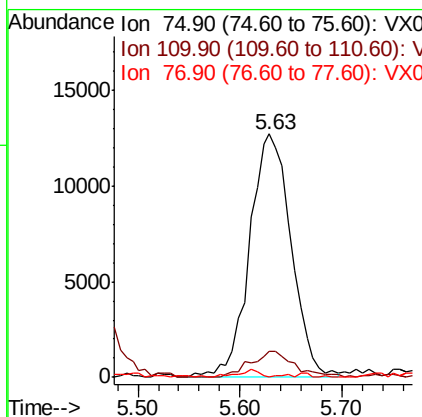
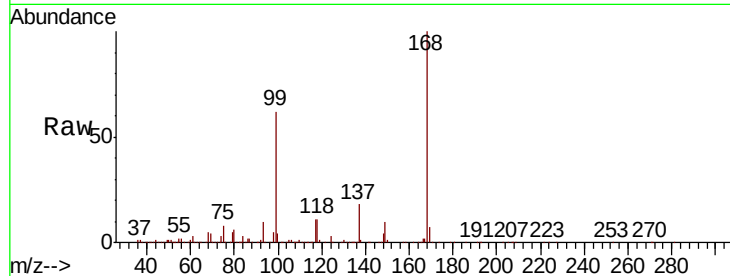




#36
 1,1-Dichloropropene
 Concen: 5.837 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX017992.D
 Acq: 19 Aug 2020 17:59

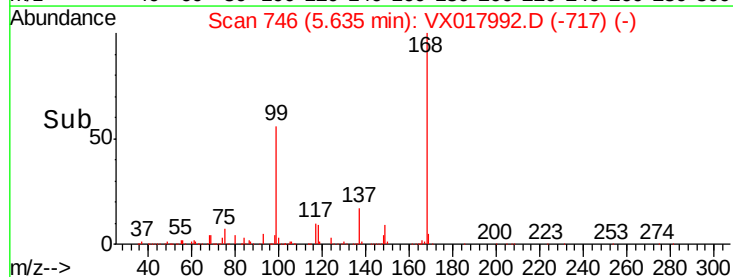
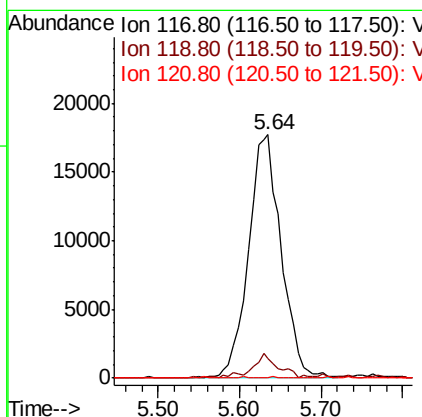
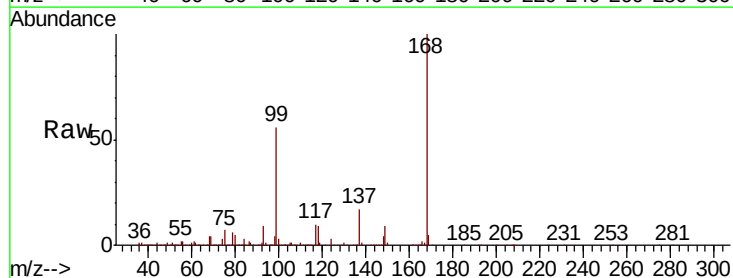
Instrument :
 MSVOA_X
 ClientSampleId :
 VB-25860

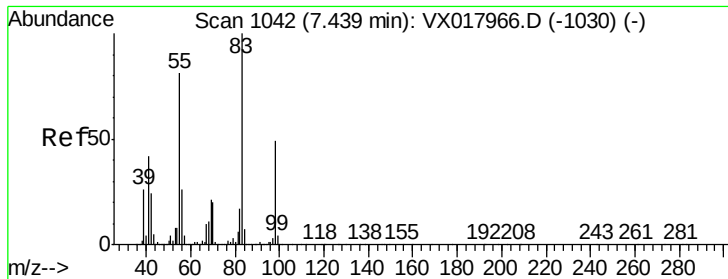
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.5	18.7	56.1#
77	1.5	24.4	36.6#



#38
 Carbon Tetrachloride
 Concen: 6.219 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.12 min
 Lab File: VX017992.D
 Acq: 19 Aug 2020 17:59

Tgt Ion	Ratio	Lower	Upper
117	100		
119	8.0	79.0	118.6#
121	0.3	24.7	37.1#





#39

Methylcyclohexane

Concen: 0.851 ug/l

RT: 7.43 min Scan# 1040

Delta R.T. -0.01 min

Lab File: VX017992.D

Acq: 19 Aug 2020 17:59

Instrument :

MSVOA_X

ClientSampled :

VB-25860

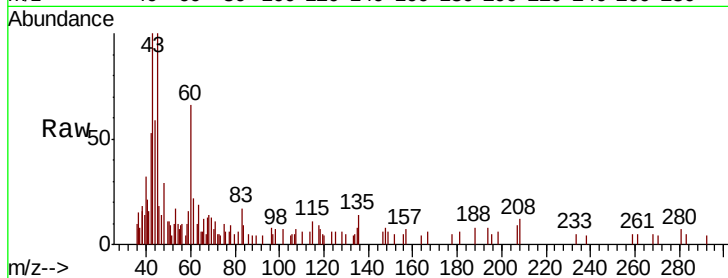
Tot Ion: 83 Resp: 308

Ion Ratio Lower Upper

83 100

55 0.6 64.5 96.7#

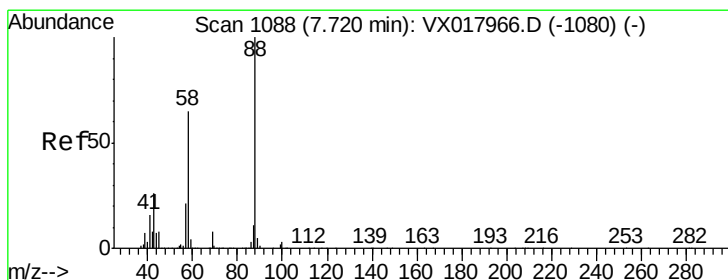
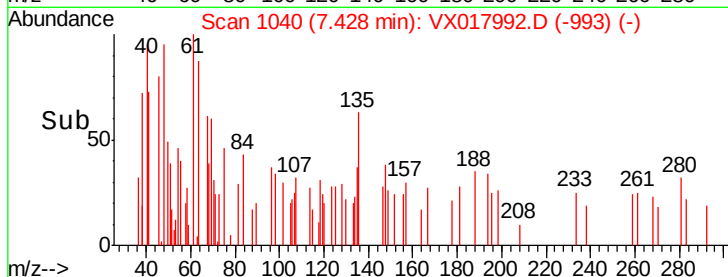
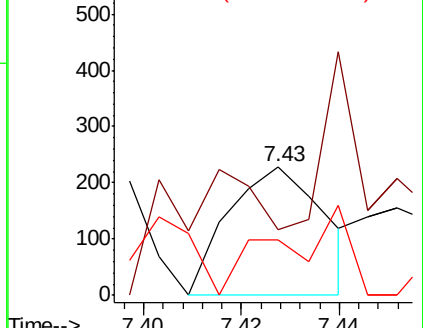
98 0.0 39.0 58.6#



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0



#49

1,4-Dioxane

Concen: 1.570 ug/l

RT: 7.73 min Scan# 1090

Delta R.T. 0.01 min

Lab File: VX017992.D

Acq: 19 Aug 2020 17:59

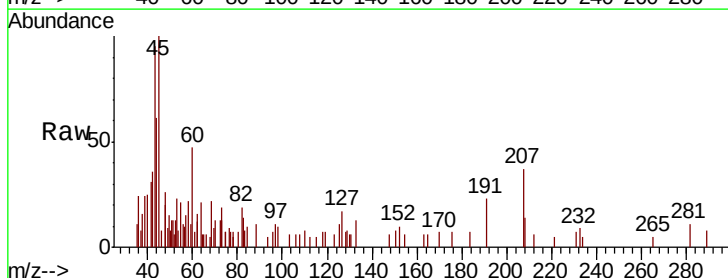
Tgt Ion: 88 Resp: 190

Ion Ratio Lower Upper

88 100

43 322.1 27.3 40.9#

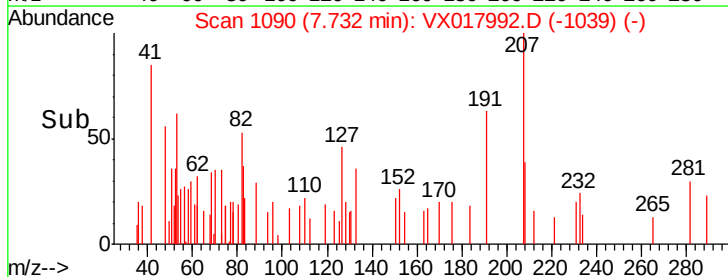
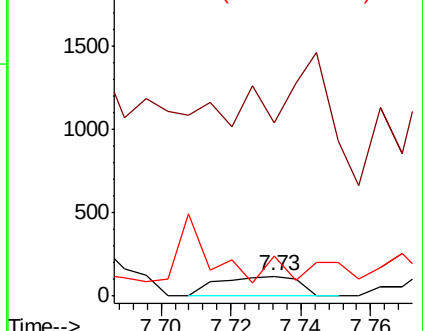
58 0.0 57.7 86.5#

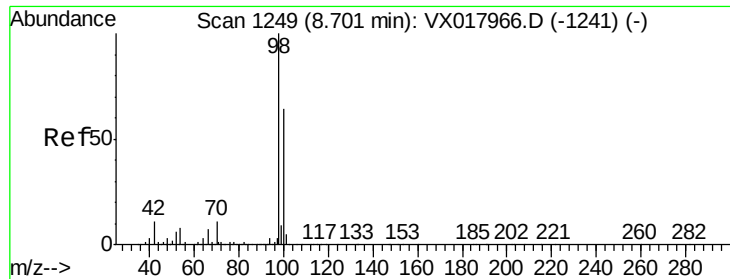


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 46.243 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.01 min

Lab File: VX017992.D

Acq: 19 Aug 2020 17:59

Instrument :

MSVOA_X

ClientSampleId :

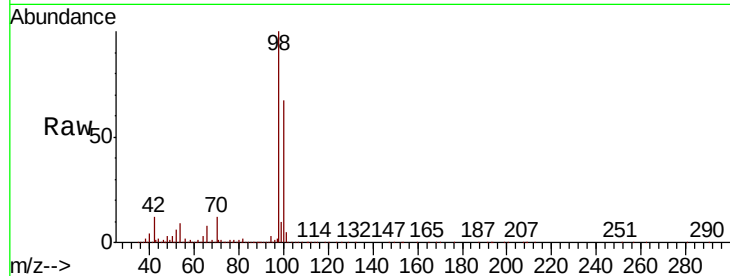
VB-25860

Tot Ion: 98 Resp: 897798

Ion Ratio Lower Upper

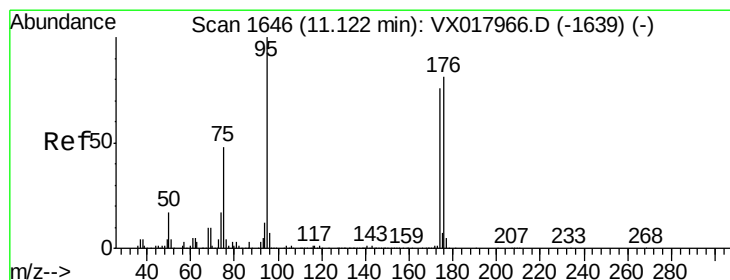
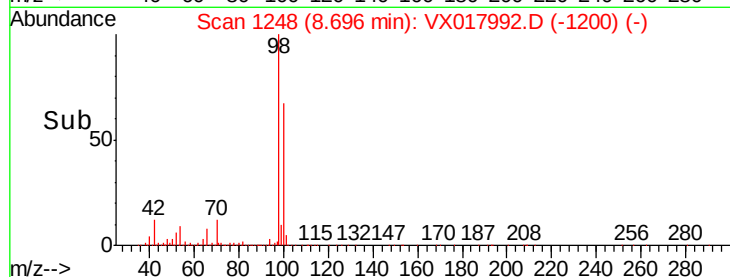
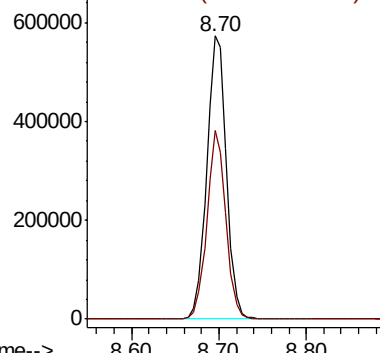
98 100

100 64.0 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 46.542 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX017992.D

Acq: 19 Aug 2020 17:59

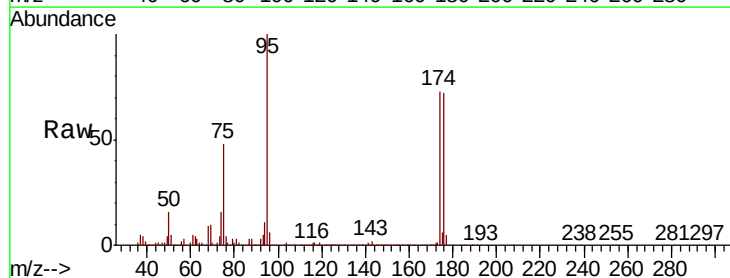
Tgt Ion: 95 Resp: 333738

Ion Ratio Lower Upper

95 100

174 79.1 0.0 166.0

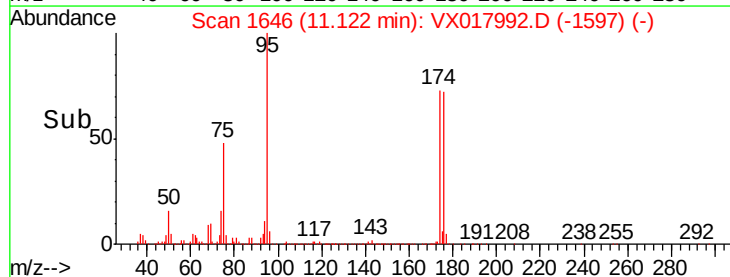
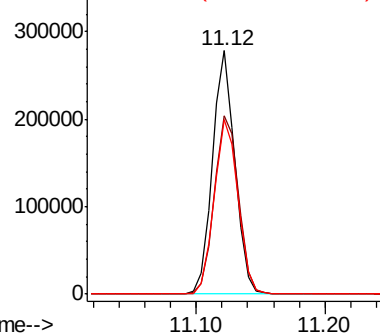
176 76.2 0.0 161.0

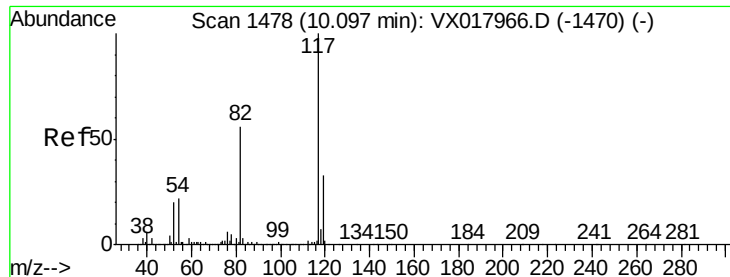


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

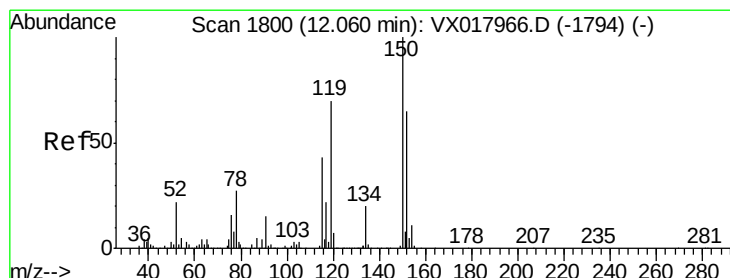
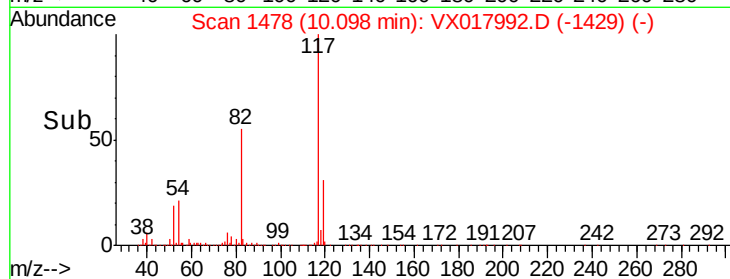
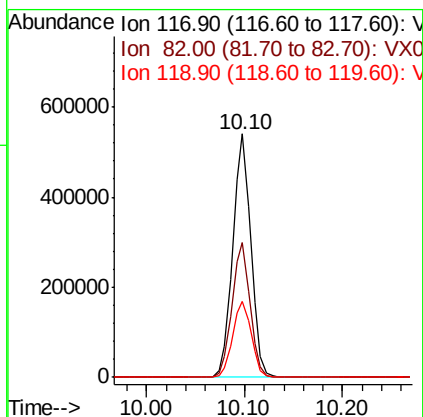
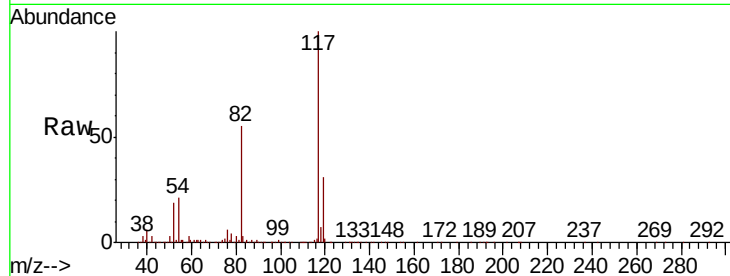




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX017992.D
Acq: 19 Aug 2020 17:59

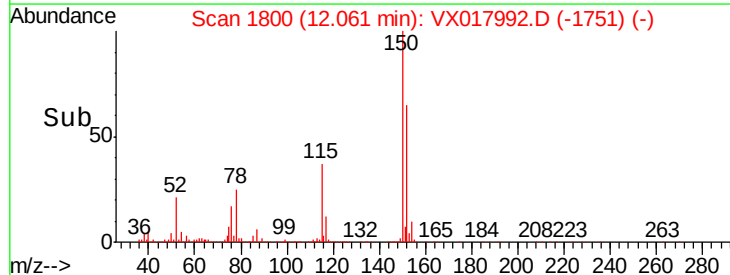
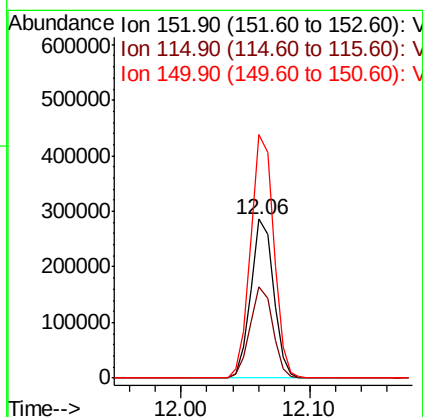
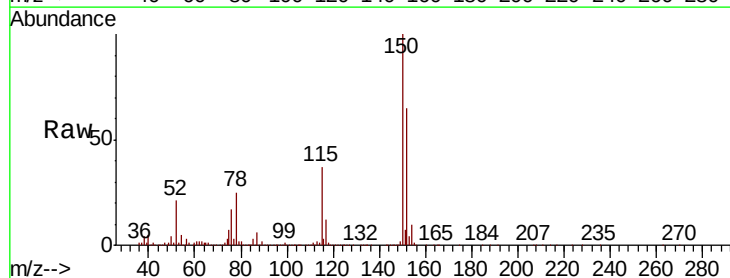
Instrument :
MSVOA_X
ClientSampleId :
VB-25860

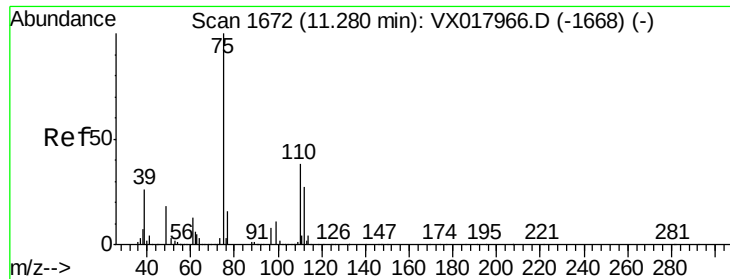
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.4	44.6	66.8
119	31.0	26.2	39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VX017992.D
Acq: 19 Aug 2020 17:59

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.6	40.6	121.7
150	155.6	0.0	346.4





#76

1,2,3-Trichloropropane

Concen: 22.568 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017992.D

Acq: 19 Aug 2020 17:59

Instrument :

MSVOA_X

ClientSampleId :

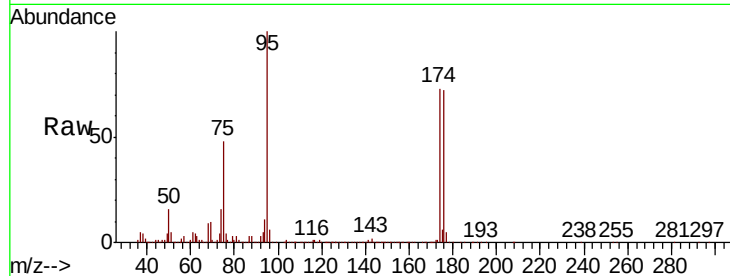
VB-25860

Tot Ion: 75 Resp: 166375

Ion Ratio Lower Upper

75 100

77 1.5 21.1 63.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.12

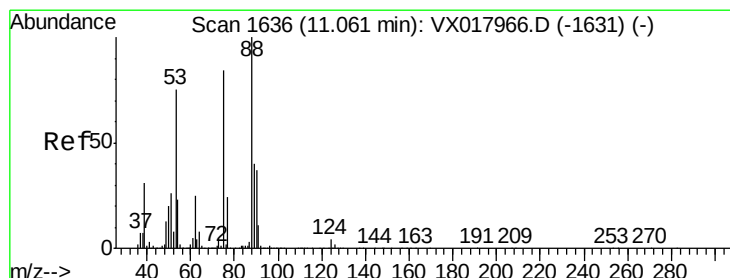
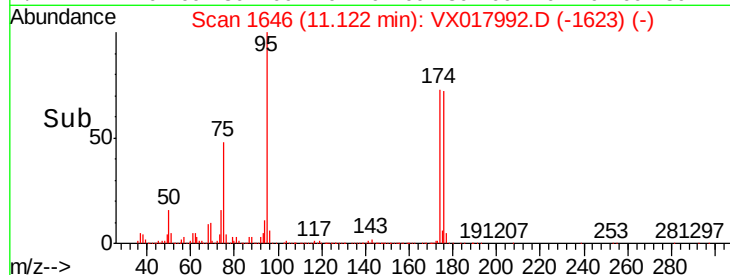
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 59.287 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017992.D

Acq: 19 Aug 2020 17:59

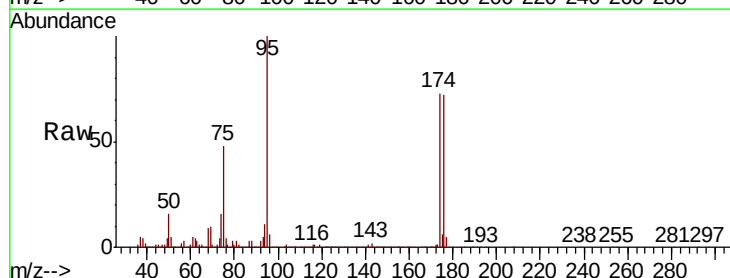
Tgt Ion: 75 Resp: 166375

Ion Ratio Lower Upper

75 100

53 0.7 75.2 112.8#

89 0.2 38.4 57.6#



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

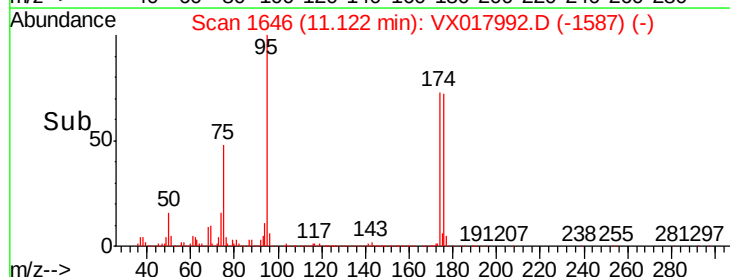
150000

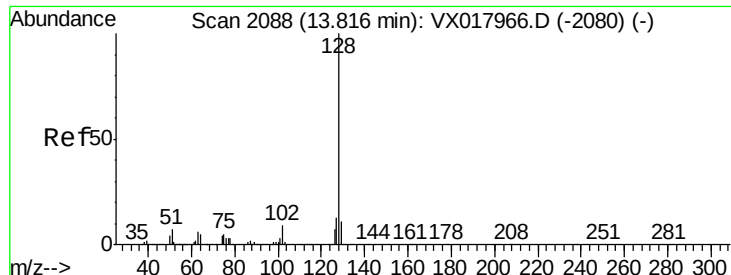
100000

50000

0

Time-->





#95

Naphthalene

Concen: 0.461 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX017992.D

Acq: 19 Aug 2020 17:59

Instrument :

MSVOA_X

ClientSampleId :

VB-25860

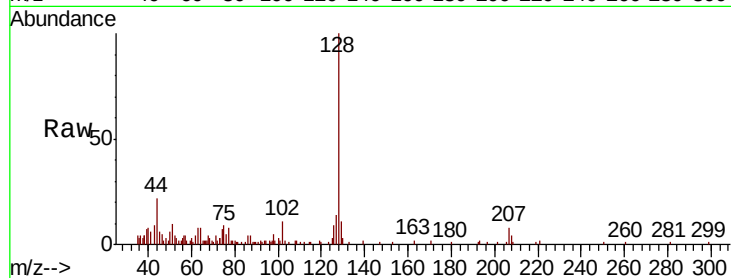
Tot Ion:128 Resp: 9948

Ion Ratio Lower Upper

128 100

127 12.8 10.7 16.1

129 12.3 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

