

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070120\
 Data File : VX017087.D
 Acq On : 01 Jul 2020 10:44
 Operator : JC/SP
 Sample : VX0701WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0701WBL01

Quant Time: Jul 02 01:33:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 29 17:10:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	226637	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	375903	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	375131	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	180407	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	146380	52.39	ug/l	0.00
Spiked Amount			Recovery	=	104.78%	
35) Dibromofluoromethane	5.46	113	127358	53.56	ug/l	0.00
Spiked Amount			Recovery	=	107.12%	
50) Toluene-d8	8.70	98	455165	51.77	ug/l	0.00
Spiked Amount			Recovery	=	103.54%	
62) 4-Bromofluorobenzene	11.12	95	178265	51.86	ug/l	0.00
Spiked Amount			Recovery	=	103.72%	

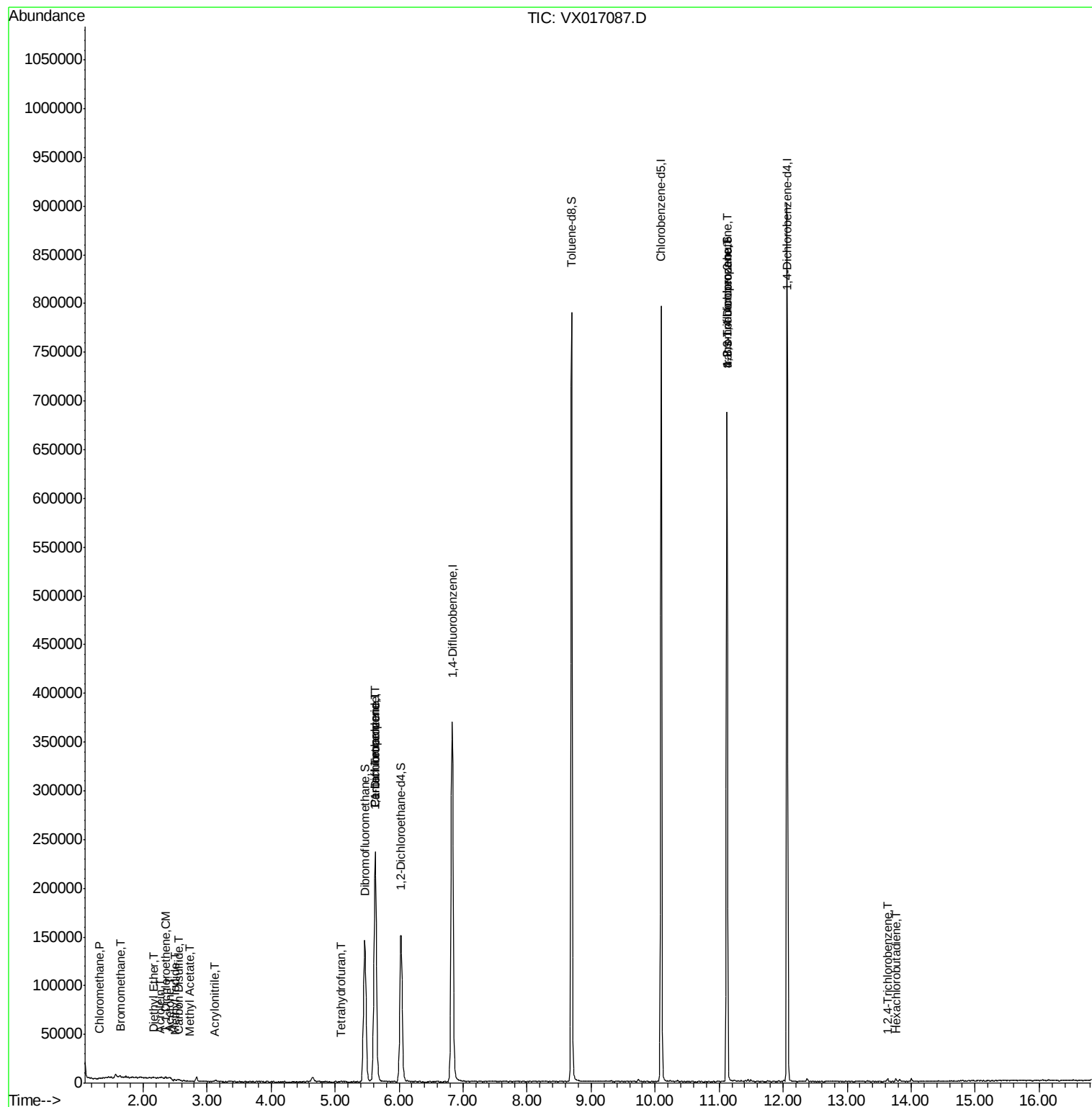
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	604	0.228	ug/l #	80
5) Bromomethane	1.64	94	846	0.650	ug/l #	43
8) Diethyl Ether	2.16	74	133	0.473	ug/l	62
10) Methyl Iodide	2.49	142	1378	0.489	ug/l #	84
12) 1,1-Dichloroethene	2.35	96	536	0.239	ug/l #	24
13) Acrolein	2.26	56	482	1.513	ug/l #	39
15) Acrylonitrile	3.12	53	485	0.379	ug/l #	74
16) Acetone	2.42	43	1417	1.356	ug/l #	76
17) Carbon Disulfide	2.56	76	1738	0.300	ug/l	95
18) Methyl Acetate	2.73	43	1039	0.381	ug/l #	73
29) Tetrahydrofuran	5.09	42	466	0.405	ug/l #	38
36) 1,1-Dichloropropene	5.62	75	17293	4.868	ug/l #	50
38) Carbon Tetrachloride	5.63	117	22236	5.682	ug/l #	17
44) Trichloroethene	7.18	130	343	Below Cal		64
76) 1,2,3-Trichloropropane	11.12	75	89279	25.166	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	89279	65.171	ug/l #	13
88) 1,4-Dichlorobenzene	12.01	146	740	Below Cal		86
93) 1,2,4-Trichlorobenzene	13.63	180	832	0.221	ug/l	87
94) Hexachlorobutadiene	13.77	225	481	1.175	ug/l	84

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

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Quant Time: Jul 02 01:33:04 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
Quant Title : SW846 8260
QLast Update : Mon Jun 29 17:10:38 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017087.D

Acq: 01 Jul 2020 10:44

Instrument :

MSVOA_X

ClientSampleId :

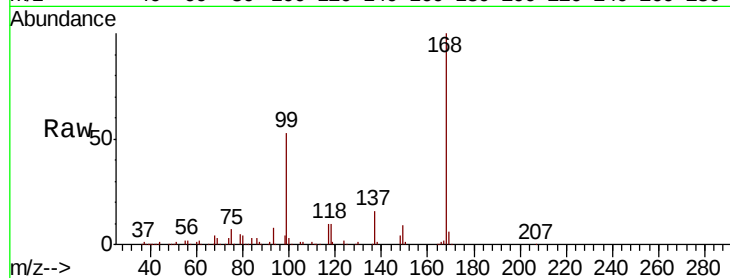
VX0701WBL01

Tot Ion:168 Resp: 226637

Ion Ratio Lower Upper

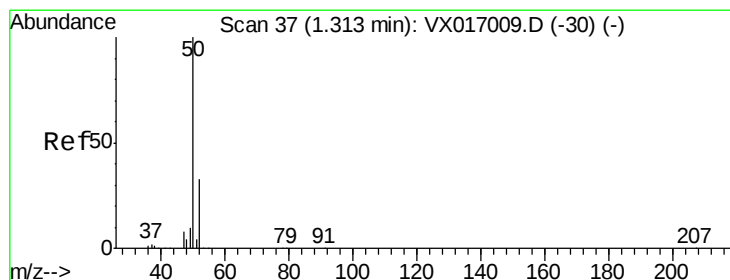
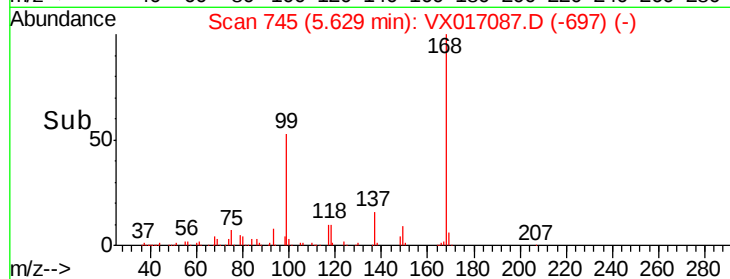
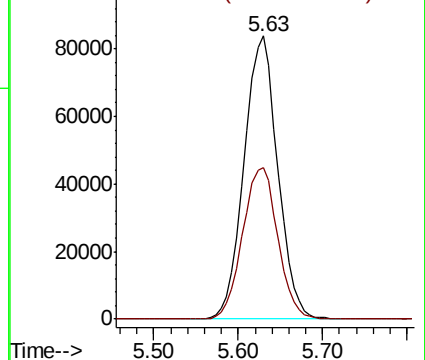
168 100

99 53.4 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.228 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX017087.D

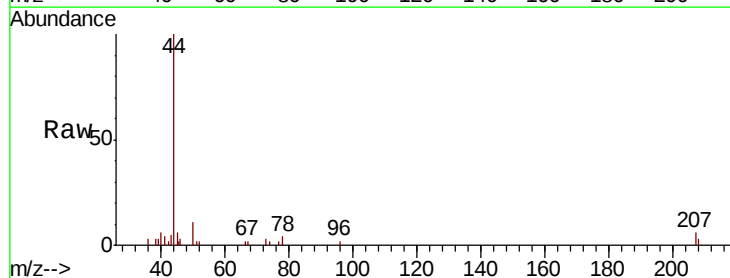
Acq: 01 Jul 2020 10:44

Tgt Ion: 50 Resp: 604

Ion Ratio Lower Upper

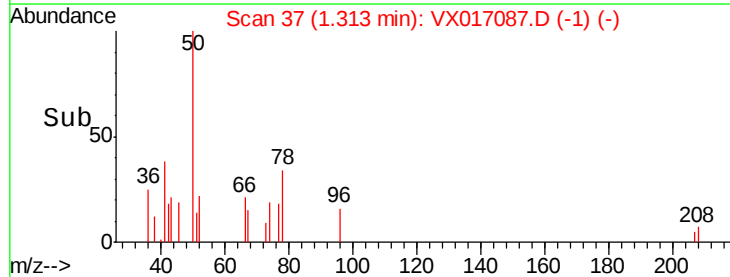
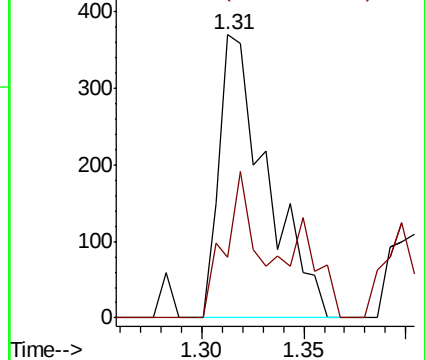
50 100

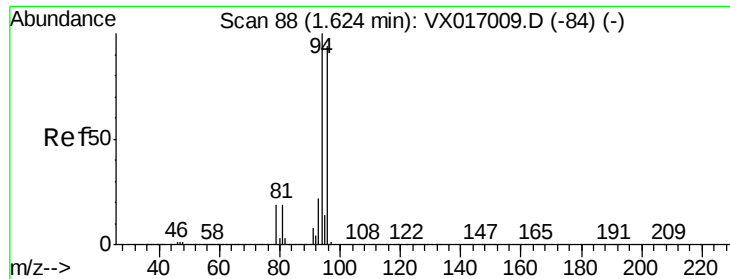
52 21.6 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.650 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX017087.D

Acq: 01 Jul 2020 10:44

Instrument :

MSVOA_X

ClientSampleId :

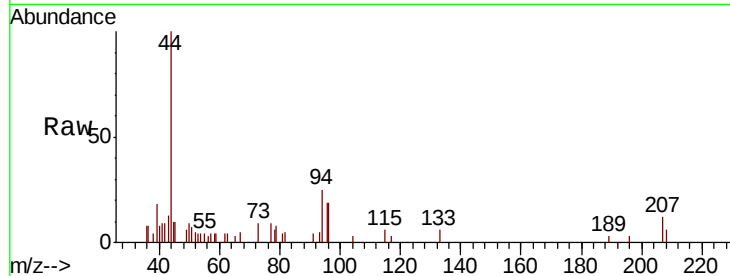
VX0701WBL01

Tot Ion: 94 Resp: 846

Ion Ratio Lower Upper

94 100

96 148.6 75.0 112.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

800

600

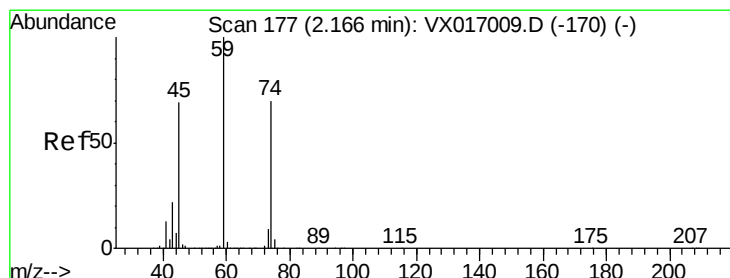
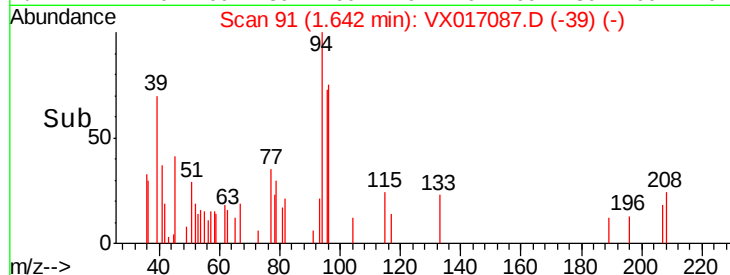
400

200

0

1.60 1.65 1.70

Time-->



#8

Diethyl Ether

Concen: 0.473 ug/l

RT: 2.16 min Scan# 176

Delta R.T. -0.01 min

Lab File: VX017087.D

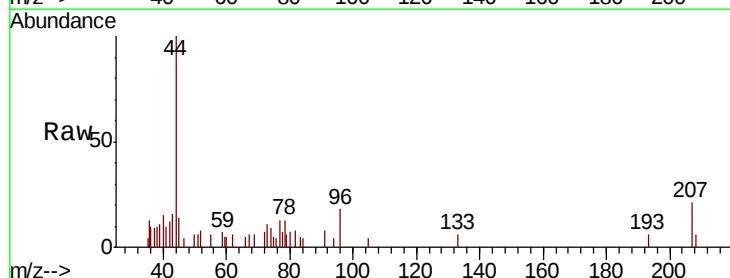
Acq: 01 Jul 2020 10:44

Tgt Ion: 74 Resp: 133

Ion Ratio Lower Upper

74 100

45 137.6 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

300

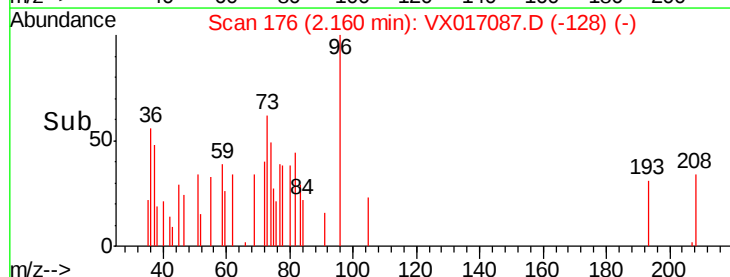
200

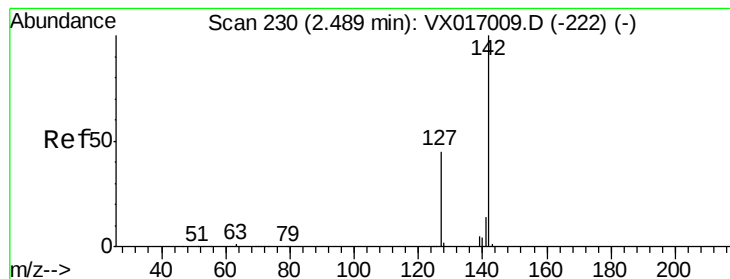
100

0

2.14 2.16 2.18 2.20

Time-->





#10

Methyl Iodide

Concen: 0.489 ug/l

RT: 2.49 min Scan# 230

Delta R.T. -0.00 min

Lab File: VX017087.D

Acq: 01 Jul 2020 10:44

Instrument :

MSVOA_X

ClientSampled :

VX0701WBL01

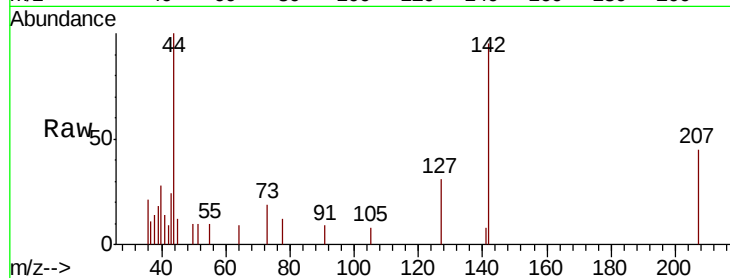
Tot Ion:142 Resp: 1378

Ion Ratio Lower Upper

142 100

127 33.8 36.6 54.8#

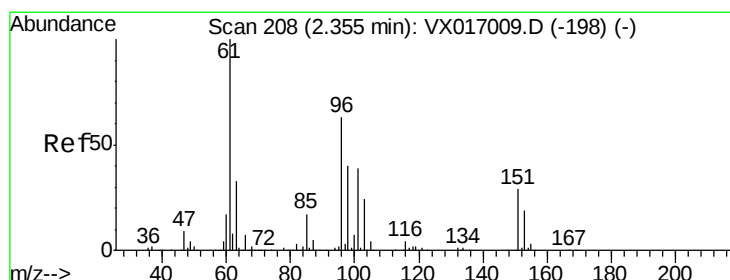
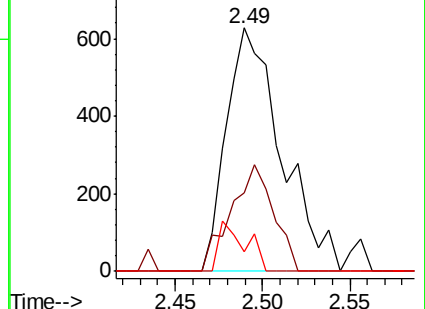
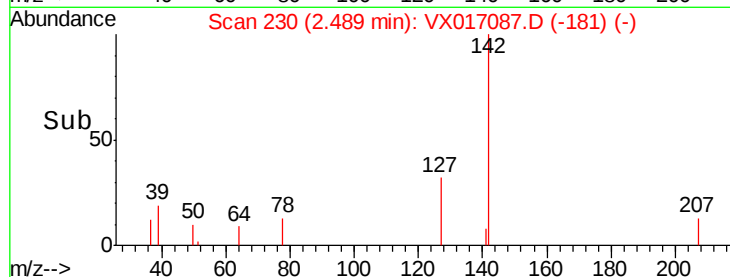
141 9.9 11.6 17.4#



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



#12

1,1-Dichloroethene

Concen: 0.239 ug/l

RT: 2.35 min Scan# 207

Delta R.T. -0.01 min

Lab File: VX017087.D

Acq: 01 Jul 2020 10:44

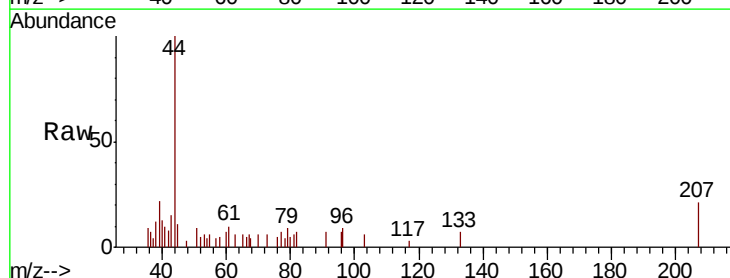
Tgt Ion: 96 Resp: 536

Ion Ratio Lower Upper

96 100

61 61.8 126.3 189.5#

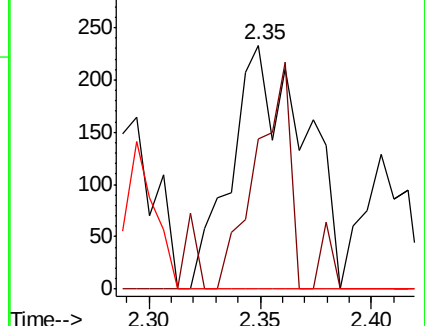
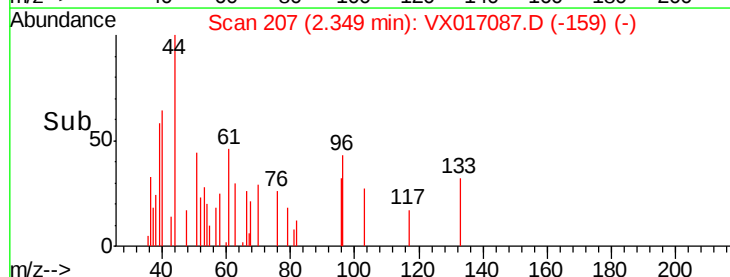
98 0.0 51.0 76.6#

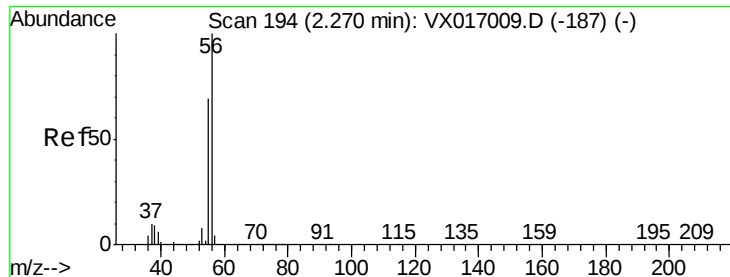


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#13

Acrolein

Concen: 1.513 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX017087.D

Acq: 01 Jul 2020 10:44

Instrument :

MSVOA_X

ClientSampled :

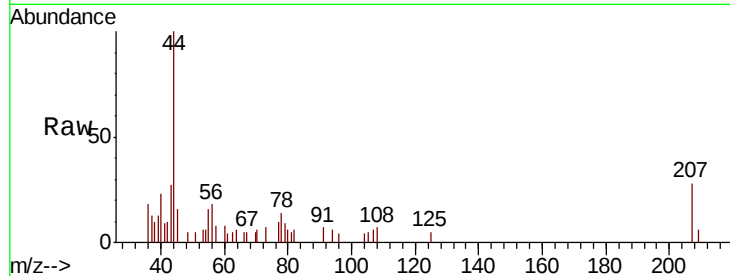
VX0701WBL01

Tot Ion: 56 Resp: 482

Ion Ratio Lower Upper

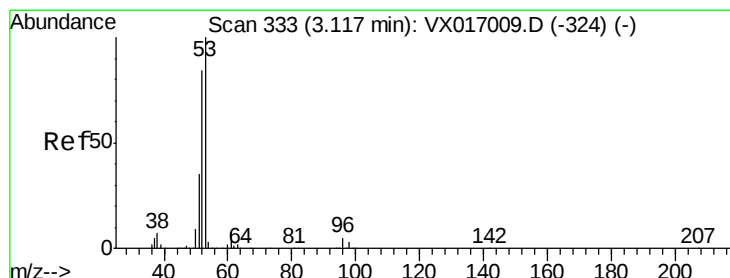
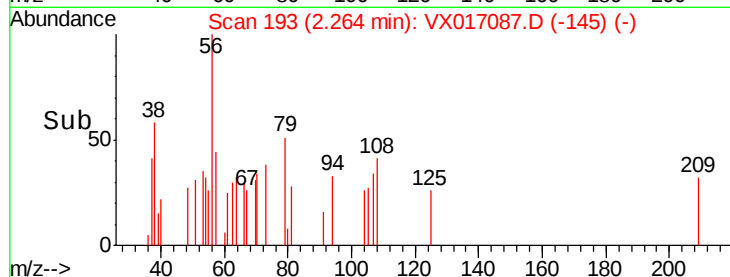
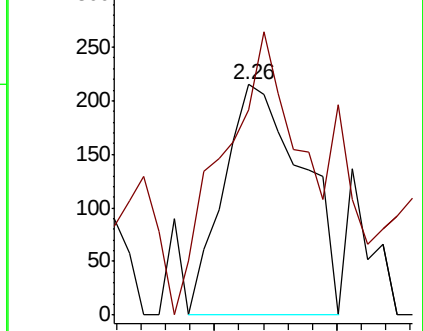
56 100

55 119.3 55.7 83.5#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.379 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX017087.D

Acq: 01 Jul 2020 10:44

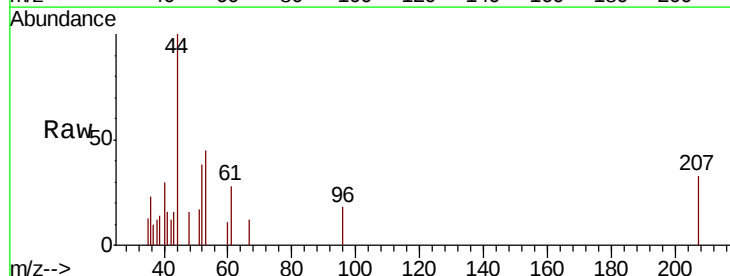
Tgt Ion: 53 Resp: 485

Ion Ratio Lower Upper

53 100

52 91.3 65.6 98.4

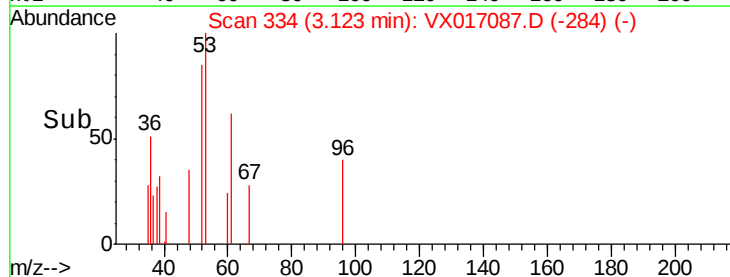
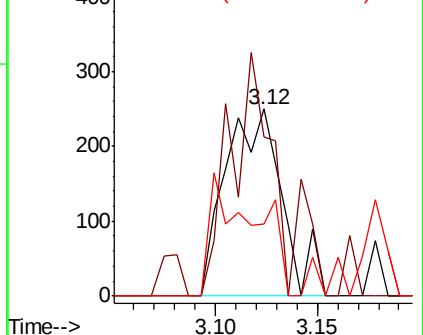
51 0.0 28.3 42.5#

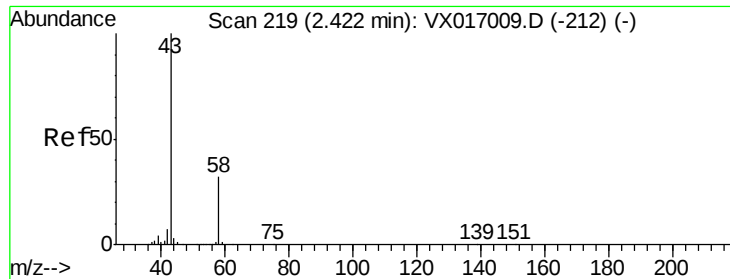


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 1.356 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017087.D

Acq: 01 Jul 2020 10:44

Instrument :

MSVOA_X

ClientSampleId :

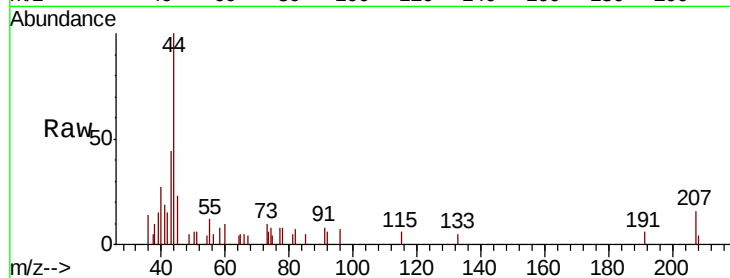
VX0701WBL01

Tot Ion: 43 Resp: 1417

Ion Ratio Lower Upper

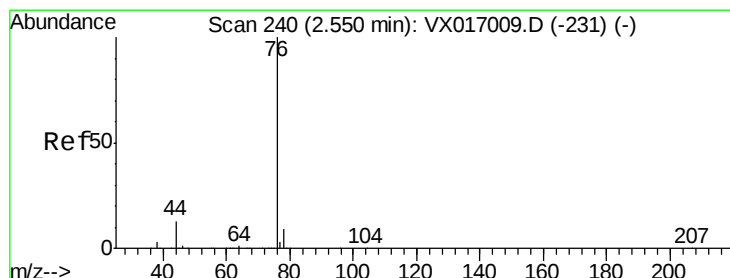
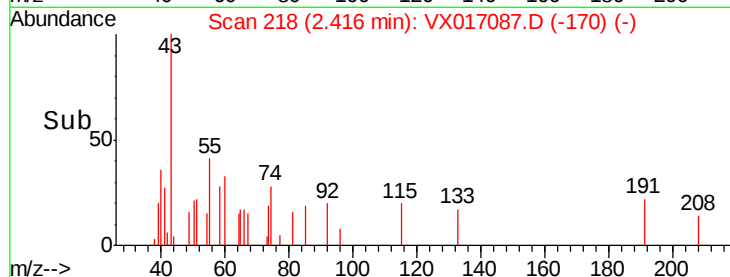
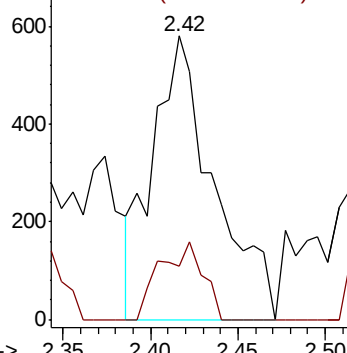
43 100

58 18.6 25.7 38.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.300 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX017087.D

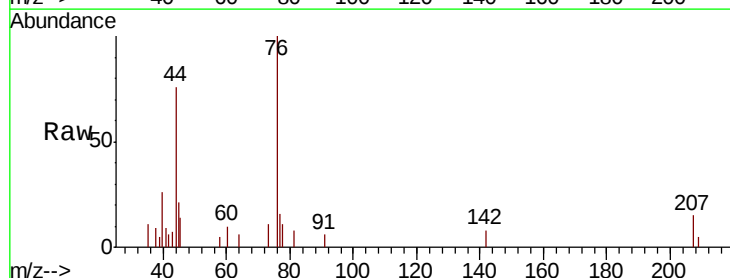
Acq: 01 Jul 2020 10:44

Tgt Ion: 76 Resp: 1738

Ion Ratio Lower Upper

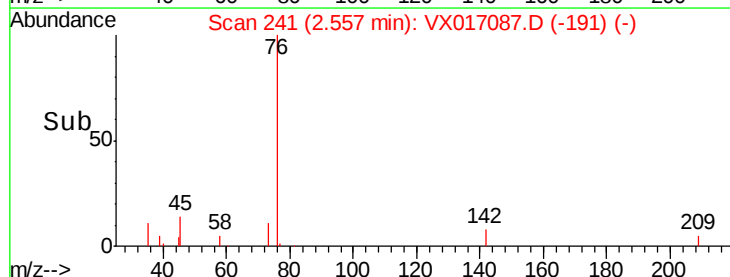
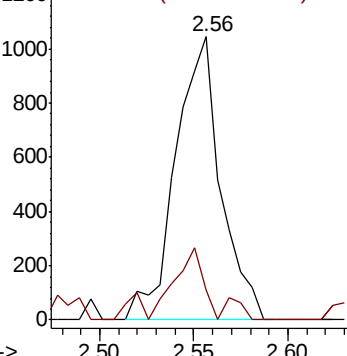
76 100

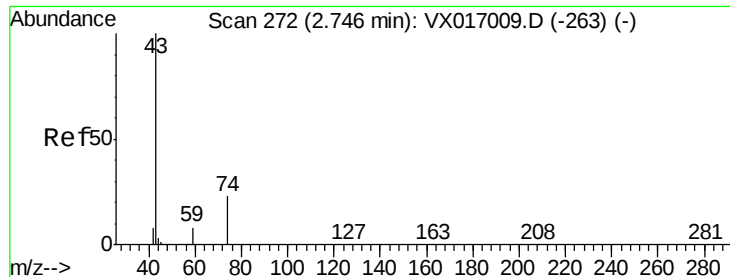
78 10.6 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

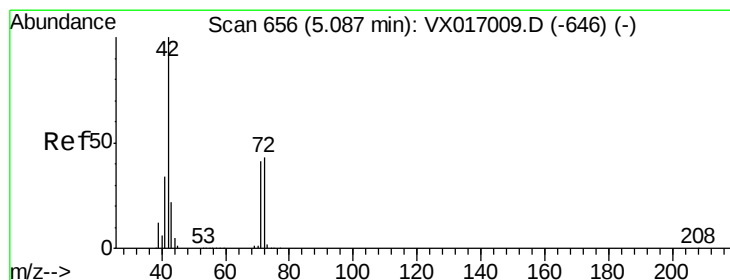
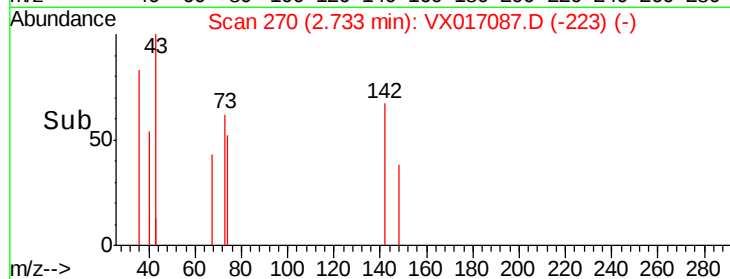
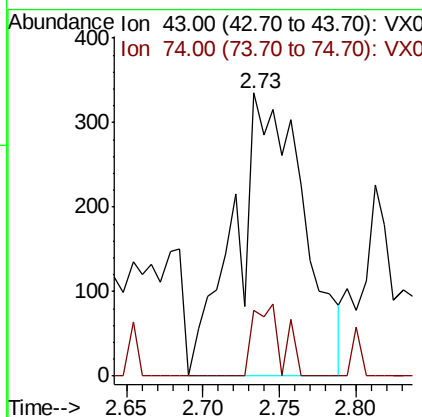
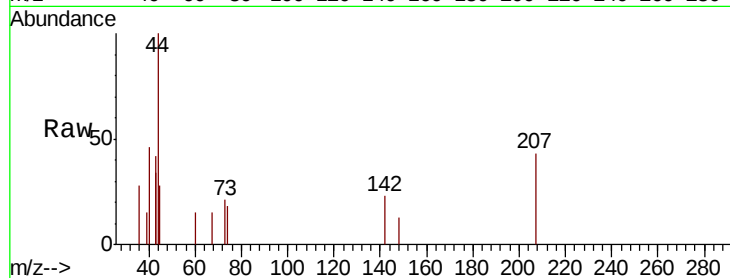




#18
Methvl Acetate
Concen: 0.381 ug/l
RT: 2.73 min Scan# 270
Delta R.T. -0.01 min
Lab File: VX017087.D
Acq: 01 Jul 2020 10:44

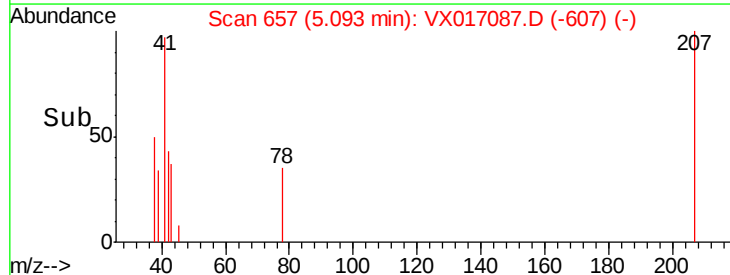
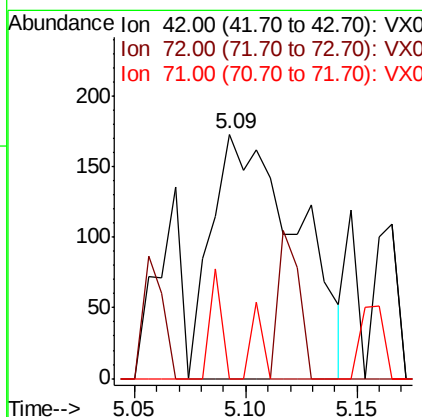
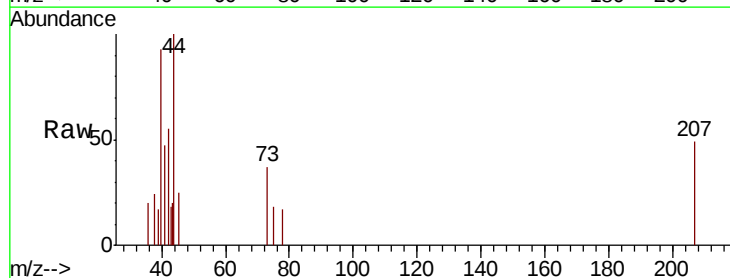
Instrument :
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VX0701WBL01

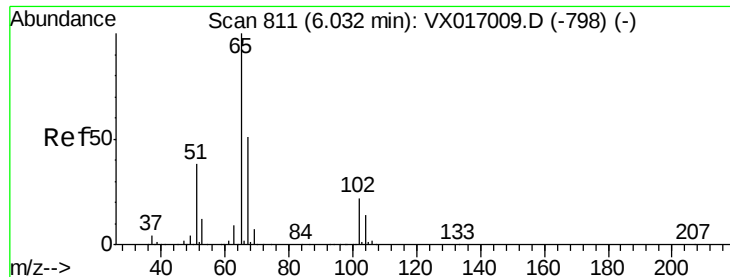
Tot Ion: 43 Resp: 1039
Ion Ratio Lower Upper
43 100
74 10.7 19.3 28.9#



#29
Tetrahydrofuran
Concen: 0.405 ug/l
RT: 5.09 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX017087.D
Acq: 01 Jul 2020 10:44

Tgt Ion: 42 Resp: 466
Ion Ratio Lower Upper
42 100
72 0.0 35.3 52.9#
71 6.2 33.1 49.7#





#33

1,2-Dichloroethane-d4

Concen: 52.391 ug/l

RT: 6.03 min Scan# 810

Delta R.T. -0.01 min

Lab File: VX017087.D

Acq: 01 Jul 2020 10:44

Instrument :

MSVOA_X

ClientSampleId :

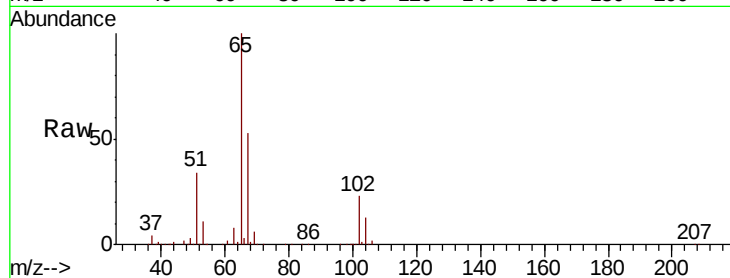
VX0701WBL01

Tot Ion: 65 Resp: 146380

Ion Ratio Lower Upper

65 100

67 52.6 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.03

60000

50000

40000

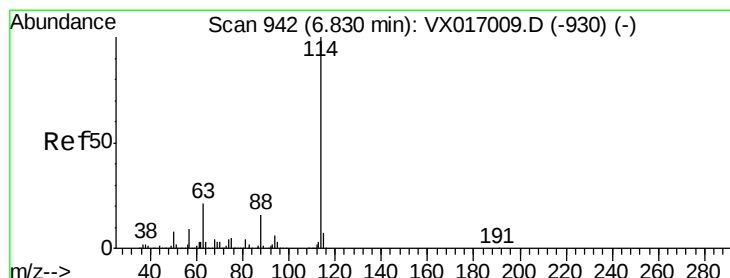
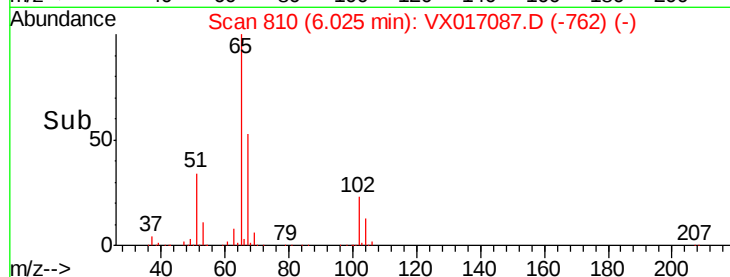
30000

20000

10000

0

Time--> 5.90 6.00 6.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017087.D

Acq: 01 Jul 2020 10:44

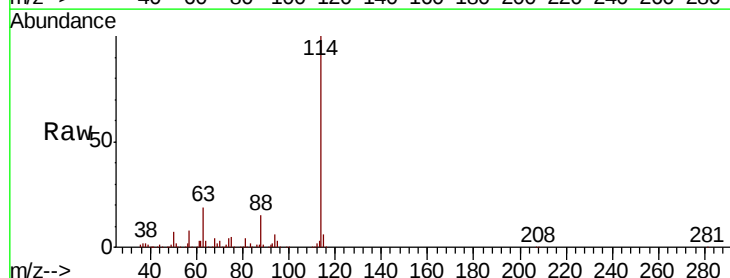
Tgt Ion: 114 Resp: 375903

Ion Ratio Lower Upper

114 100

63 19.4 0.0 41.4

88 15.2 0.0 32.4



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

200000

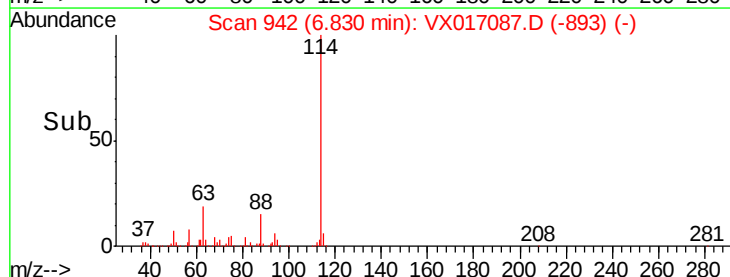
150000

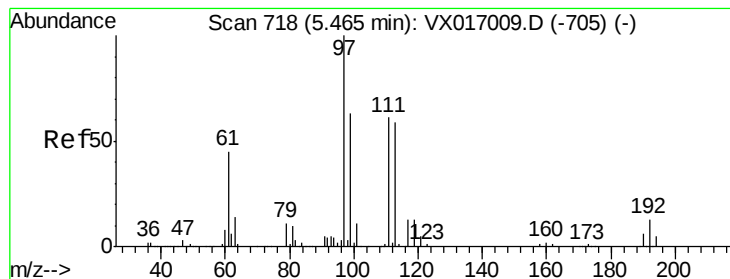
100000

50000

0

Time--> 6.70 6.80 6.90





#35

Dibromofluoromethane

Concen: 53.560 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX017087.D

Acq: 01 Jul 2020 10:44

Instrument :

MSVOA_X

ClientSampleId :

VX0701WBL01

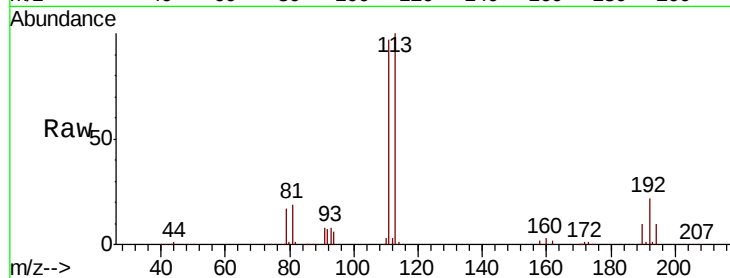
Tot Ion:113 Resp: 127358

Ion Ratio Lower Upper

113 100

111 101.0 81.9 122.9

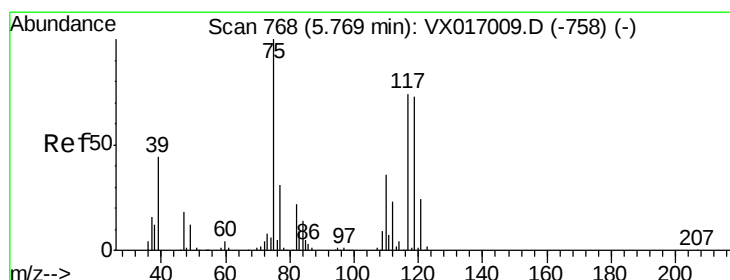
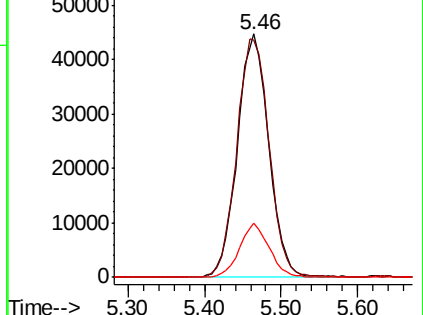
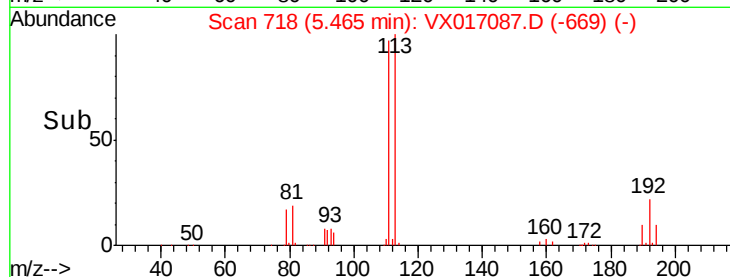
192 20.9 16.7 25.1



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: 4.868 ug/l

RT: 5.62 min Scan# 743

Delta R.T. -0.15 min

Lab File: VX017087.D

Acq: 01 Jul 2020 10:44

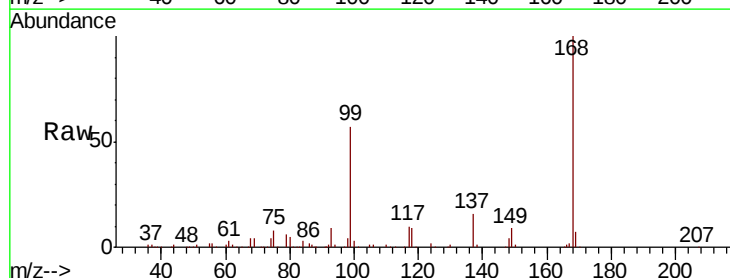
Tgt Ion: 75 Resp: 17293

Ion Ratio Lower Upper

75 100

110 9.6 18.1 54.1#

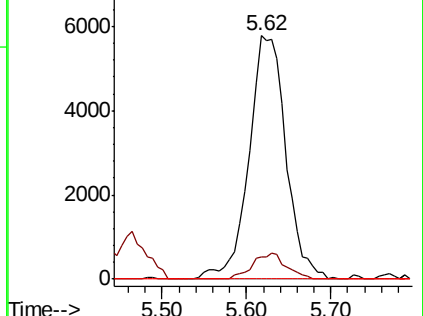
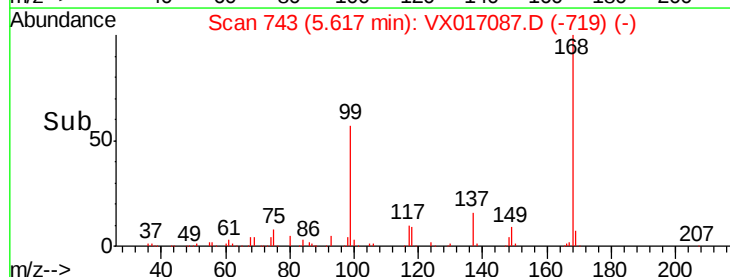
77 0.0 24.6 37.0#

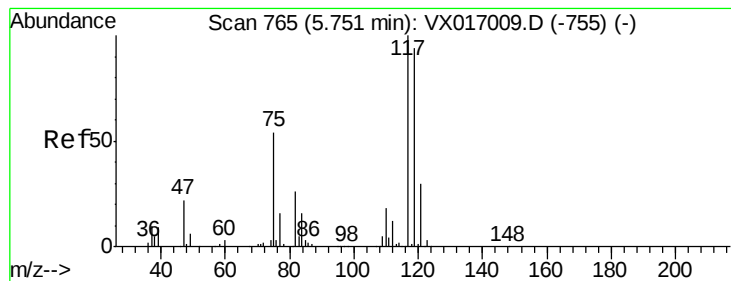


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.682 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX017087.D

Acq: 01 Jul 2020 10:44

Instrument :

MSVOA_X

ClientSampleId :

VX0701WBL01

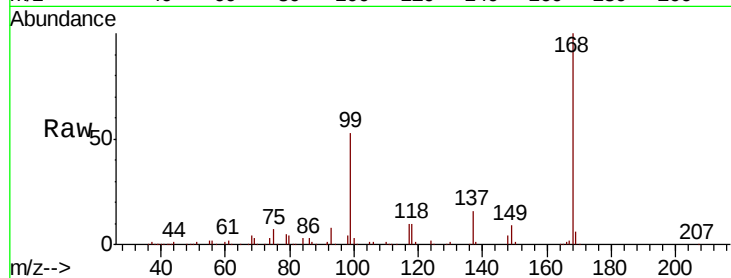
Tot Ion:117 Resp: 22236

Ion Ratio Lower Upper

117 100

119 5.9 75.4 113.0#

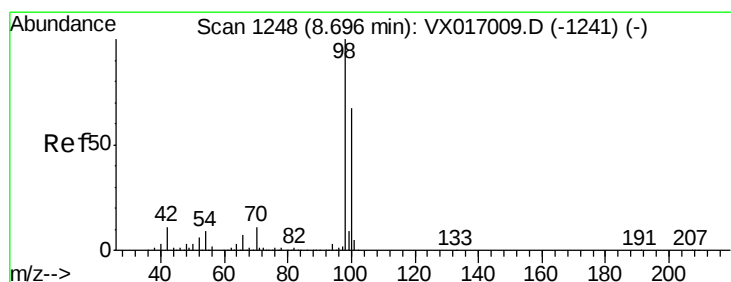
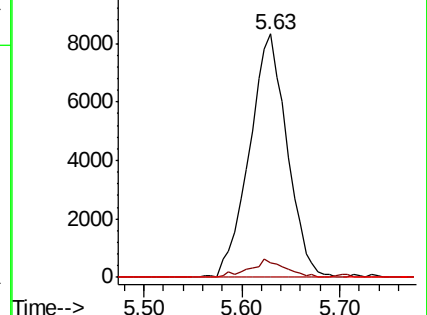
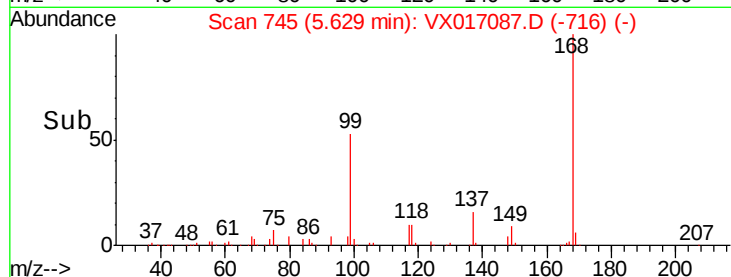
121 0.0 23.8 35.6#



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



#50

Toluene-d8

Concen: 51.766 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017087.D

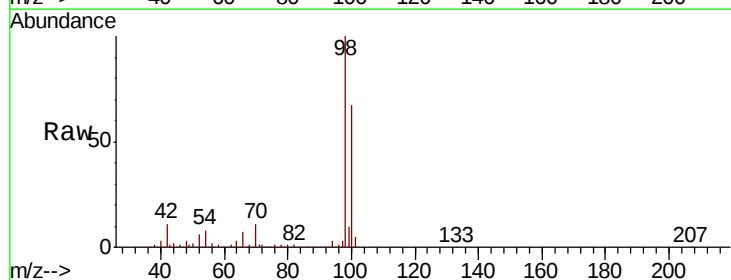
Acq: 01 Jul 2020 10:44

Tgt Ion: 98 Resp: 455165

Ion Ratio Lower Upper

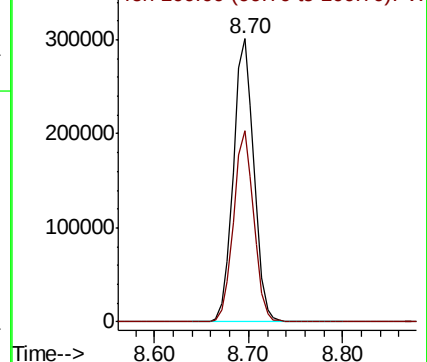
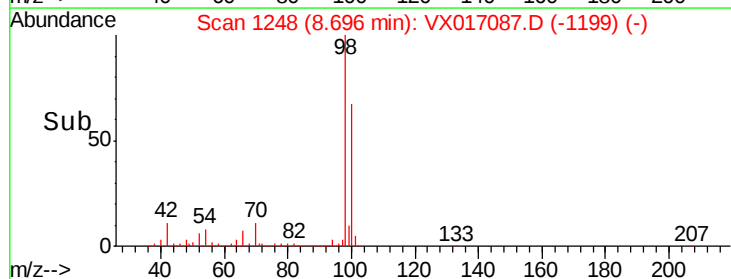
98 100

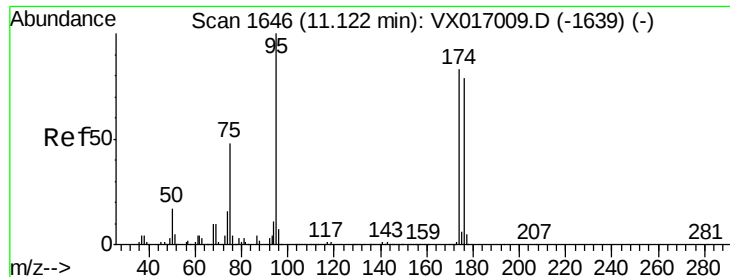
100 66.5 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 51.863 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017087.D

Acq: 01 Jul 2020 10:44

Instrument :

MSVOA_X

ClientSampleId :

VX0701WBL01

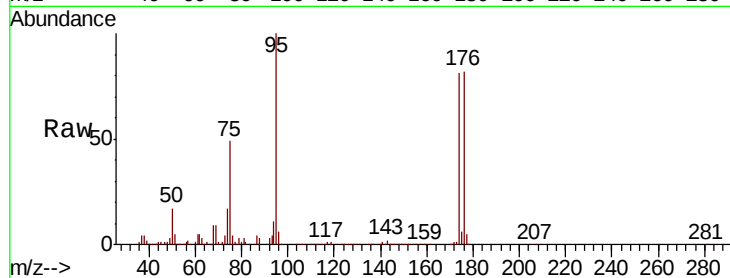
Tot Ion: 95 Resp: 178265

Ion Ratio Lower Upper

95 100

174 82.8 0.0 164.0

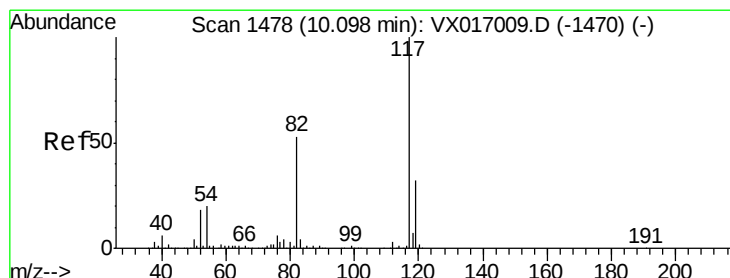
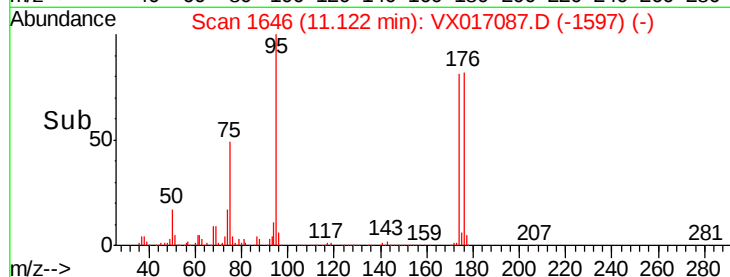
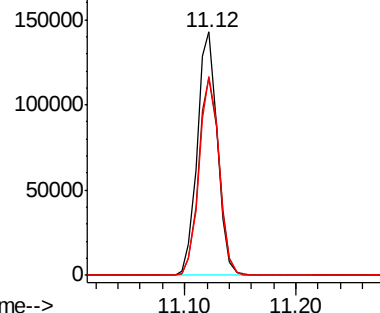
176 81.5 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX017009.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX017009.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX017009.D (-1639) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX017087.D

Acq: 01 Jul 2020 10:44

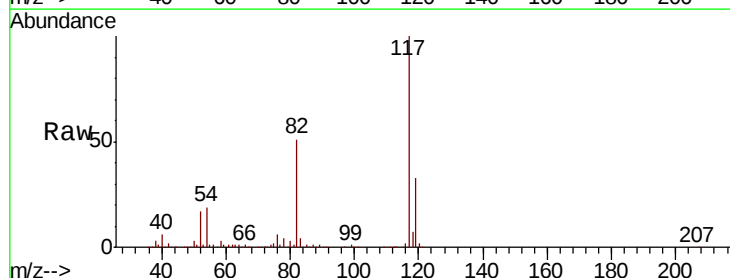
Tgt Ion: 117 Resp: 375131

Ion Ratio Lower Upper

117 100

82 51.3 42.6 63.8

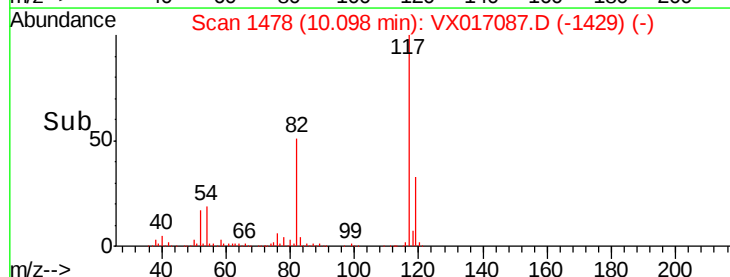
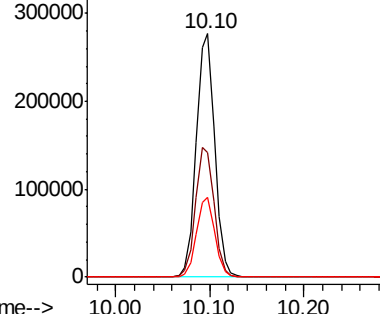
119 32.8 25.4 38.2

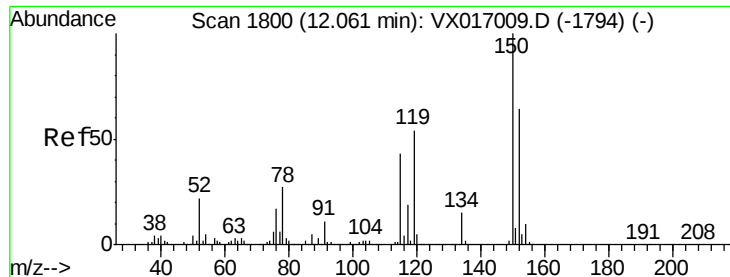


Abundance Ion 116.90 (116.60 to 117.60): VX017009.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX017009.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX017009.D (-1470) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017087.D

Acq: 01 Jul 2020 10:44

Instrument :

MSVOA_X

ClientSampleId :

VX0701WBL01

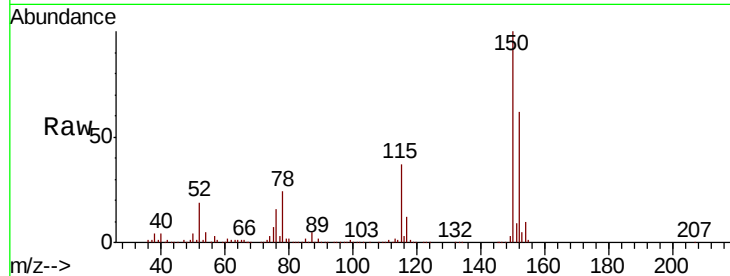
Tot Ion:152 Resp: 180407

Ion Ratio Lower Upper

152 100

115 58.3 40.9 122.7

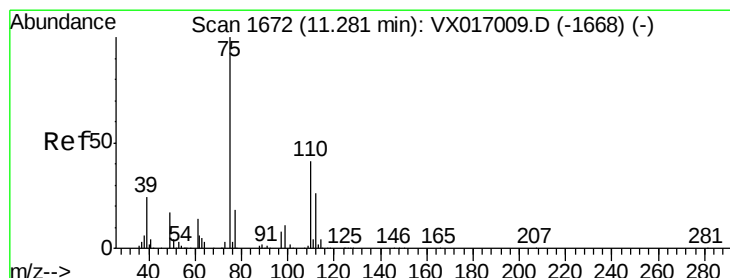
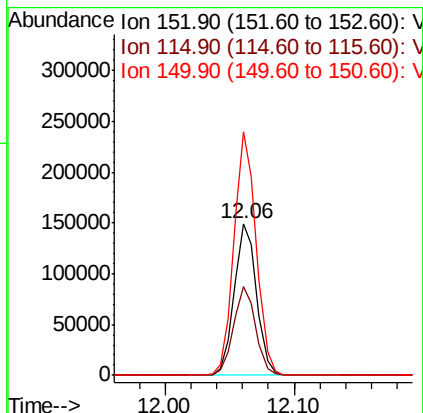
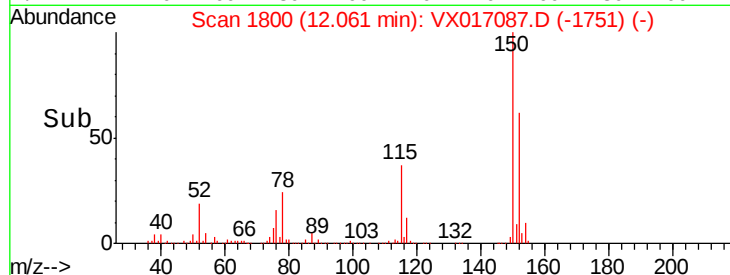
150 159.0 0.0 351.6



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: 25.166 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017087.D

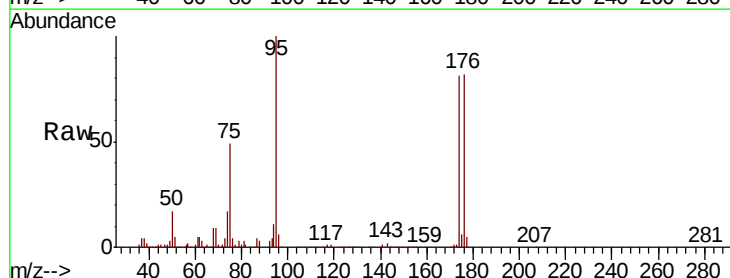
Acq: 01 Jul 2020 10:44

Tgt Ion: 75 Resp: 89279

Ion Ratio Lower Upper

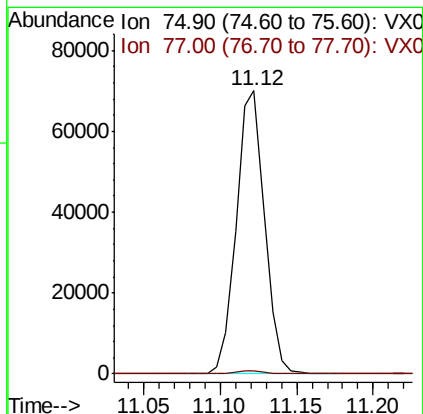
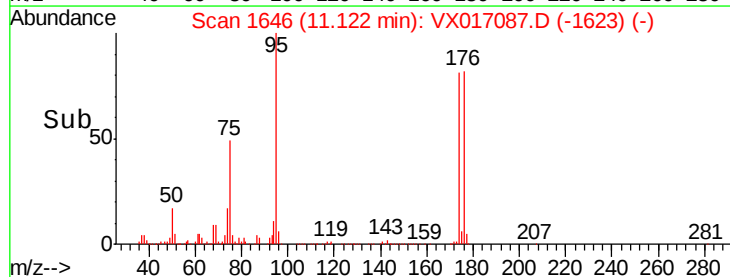
75 100

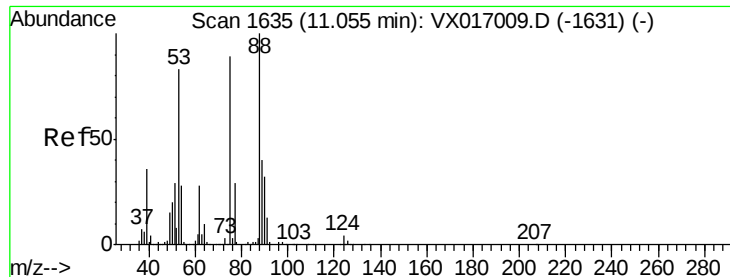
77 1.2 20.2 60.6#



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: 65.171 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017087.D

Acq: 01 Jul 2020 10:44

Instrument :

MSVOA_X

ClientSampleId :

VX0701WBL01

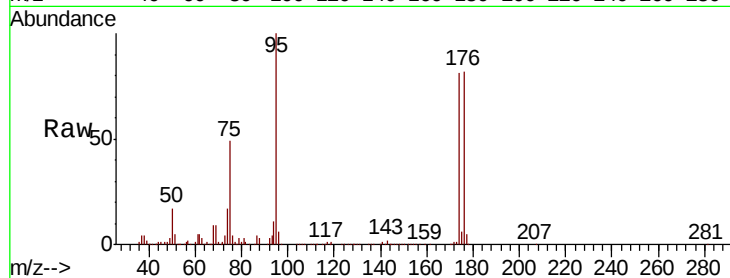
Tot Ion: 75 Resp: 89279

Ion Ratio Lower Upper

75 100

53 0.3 72.4 108.6#

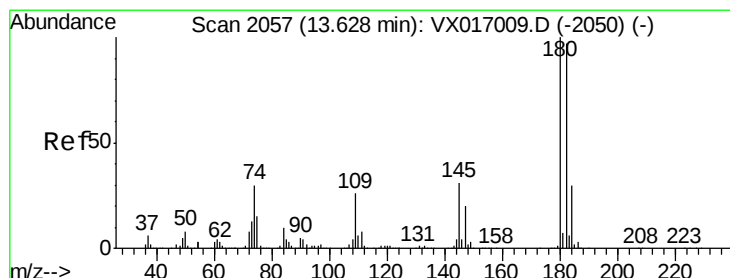
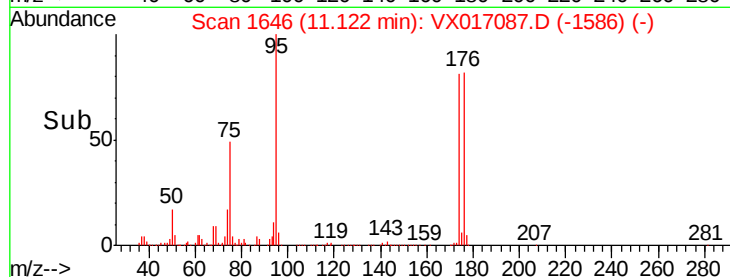
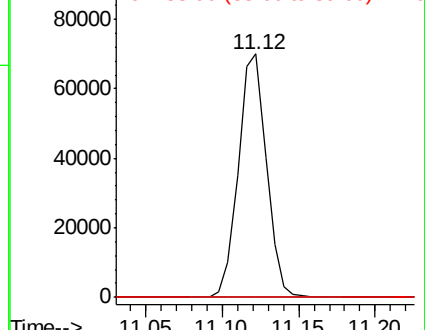
89 0.1 37.0 55.4#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.221 ug/l

RT: 13.63 min Scan# 2057

Delta R.T. -0.00 min

Lab File: VX017087.D

Acq: 01 Jul 2020 10:44

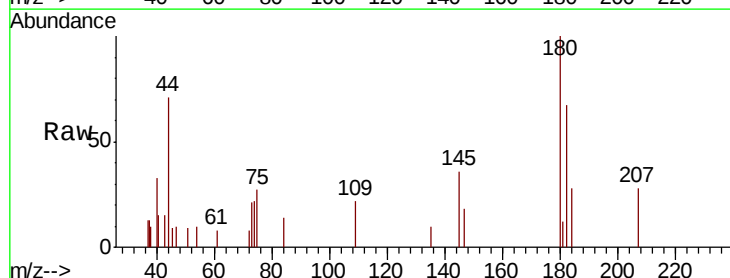
Tgt Ion:180 Resp: 832

Ion Ratio Lower Upper

180 100

182 80.0 47.3 141.9

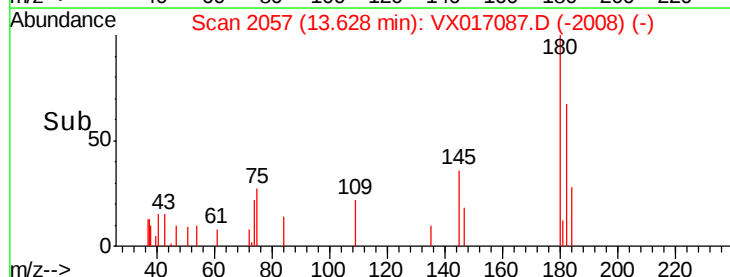
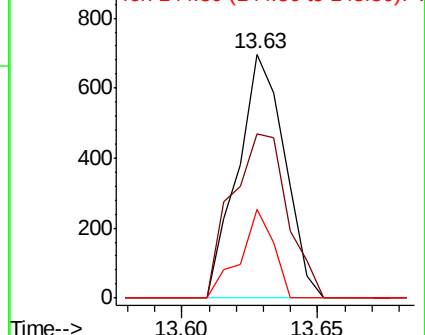
145 26.1 15.4 46.2

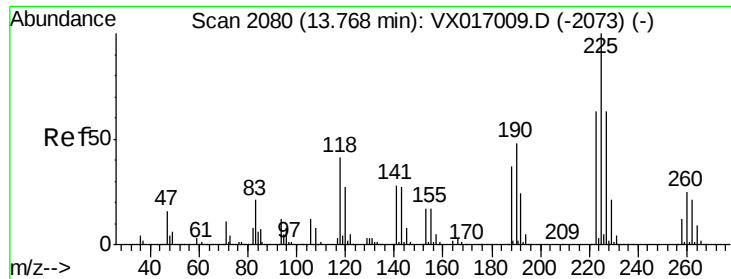


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94
 Hexachlorobutadiene
 Concen: 1.175 ug/l
 RT: 13.77 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VX017087.D
 Acq: 01 Jul 2020 10:44

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0701WBL01

Tot Ion	Ratio	Lower	Upper
225	100		
223	79.8	32.5	97.5
227	56.3	33.1	99.2

