

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060320\
 Data File : VX016562.D
 Acq On : 03 Jun 2020 12:56
 Operator : JC/SP
 Sample : L2867-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SP20-GMZ5-TB1

Quant Time: Jun 04 08:23:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052720W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 27 16:31:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	269532	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	433710	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	434463	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	215573	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	155387	46.42	ug/l	0.00
Spiked Amount			Recovery	=	92.84%	
35) Dibromofluoromethane	5.46	113	126268	47.28	ug/l	0.00
Spiked Amount			Recovery	=	94.56%	
50) Toluene-d8	8.70	98	542127	52.16	ug/l	0.00
Spiked Amount			Recovery	=	104.32%	
62) 4-Bromofluorobenzene	11.12	95	216837	53.99	ug/l	0.00
Spiked Amount			Recovery	=	107.98%	

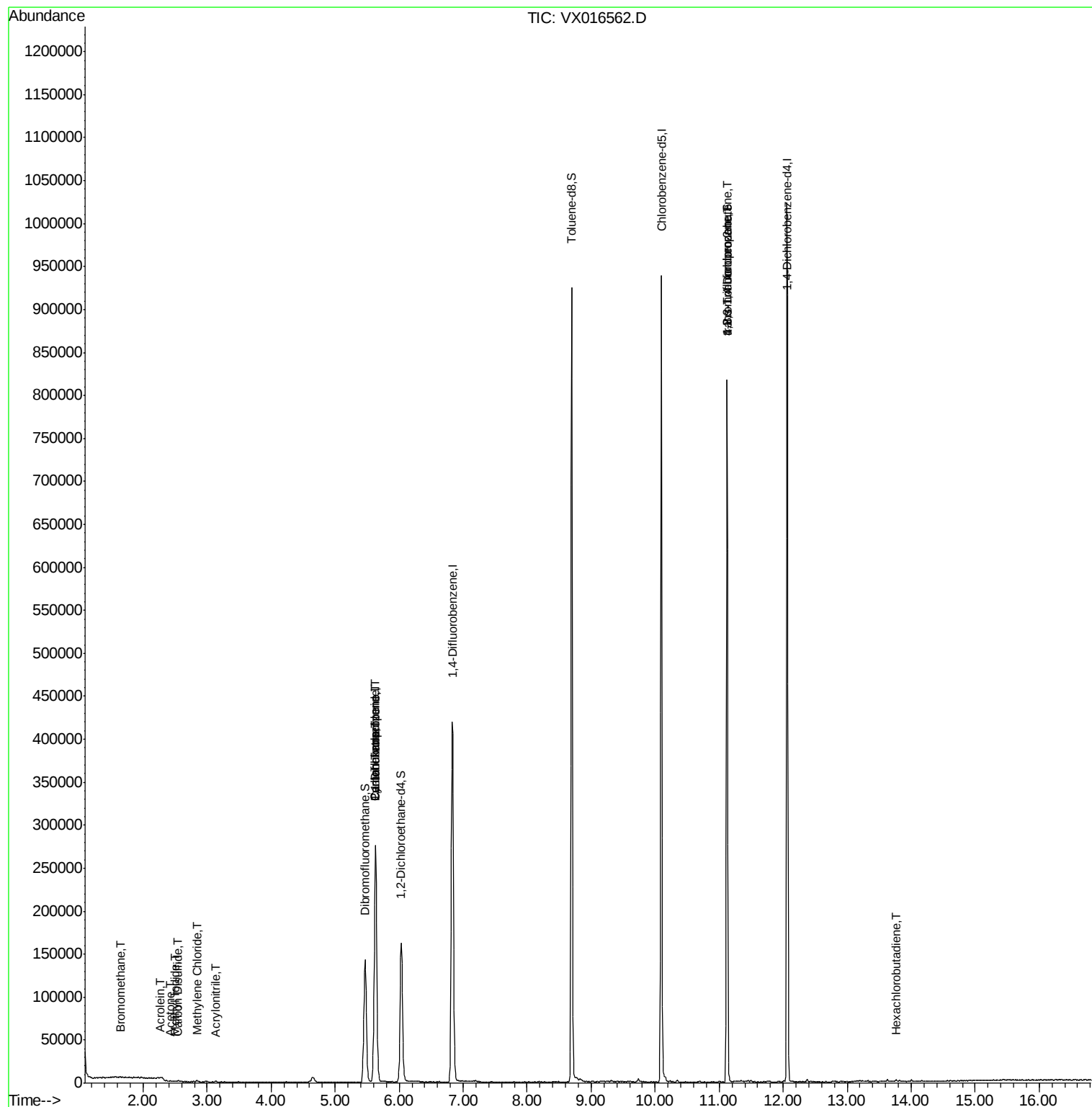
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	453	0.275	ug/l	94
10) Methyl Iodide	2.50	142	441	3.197	ug/l #	76
13) Acrolein	2.28	56	596	1.632	ug/l #	81
15) Acrylonitrile	3.12	53	425	0.242	ug/l	94
16) Acetone	2.42	43	698	0.476	ug/l #	83
17) Carbon Disulfide	2.54	76	1561	0.203	ug/l #	91
20) Methylene Chloride	2.84	84	755	0.249	ug/l #	74
31) Cyclohexane	5.62	56	4914	1.056	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	19343	4.710	ug/l #	51
38) Carbon Tetrachloride	5.63	117	25227	5.846	ug/l #	16
76) 1,2,3-Trichloropropane	11.12	75	105697	22.306	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	105697	54.871	ug/l #	14
94) Hexachlorobutadiene	13.77	225	348	0.203	ug/l #	66

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

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QLast Update : Wed May 27 16:31:05 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX016562.D

Acq: 03 Jun 2020 12:56

Instrument :

MSVOA_X

ClientSampleId :

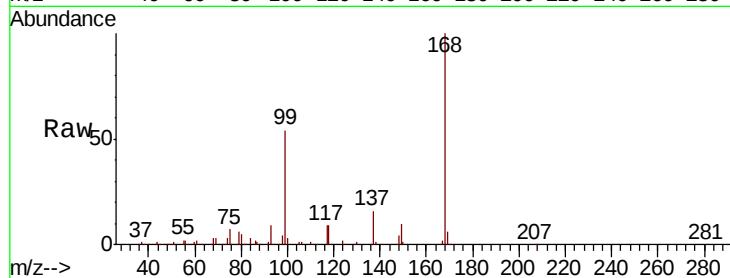
SP20-GMZ5-TB1

Tot Ion:168 Resp: 269532

Ion Ratio Lower Upper

168 100

99 53.6 45.2 67.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

60000

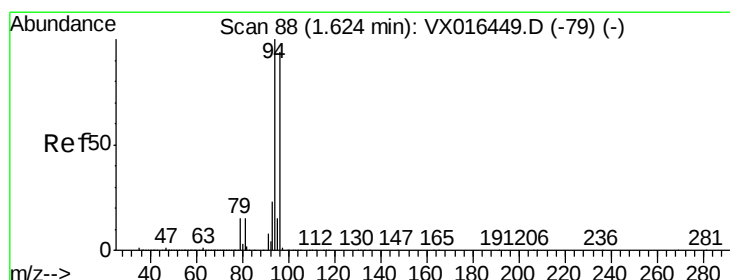
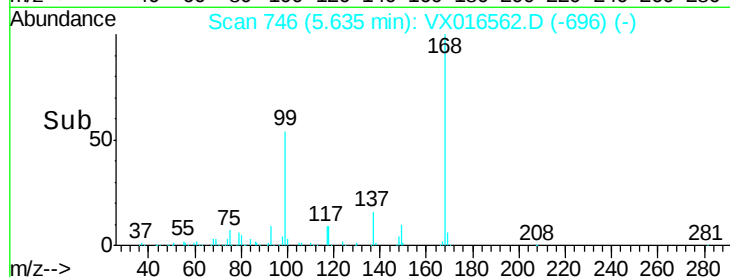
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.275 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX016562.D

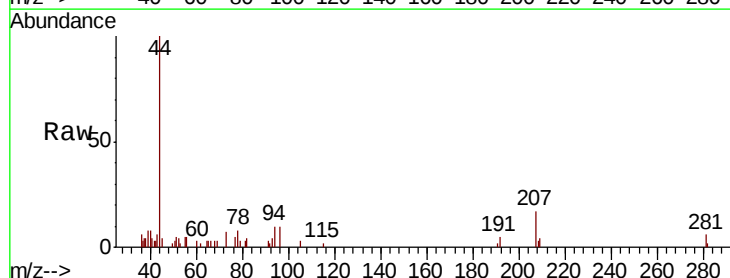
Acq: 03 Jun 2020 12:56

Tgt Ion: 94 Resp: 453

Ion Ratio Lower Upper

94 100

96 99.6 75.1 112.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

300

250

200

150

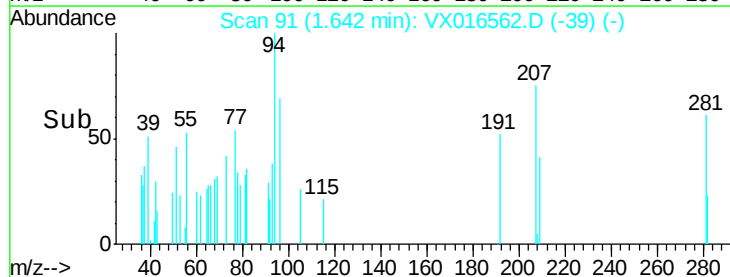
100

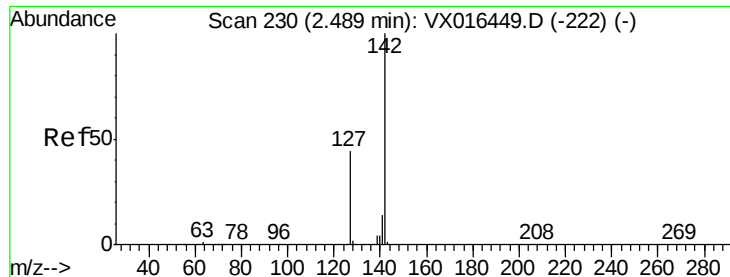
50

0

Time-->

1.60 1.65 1.70

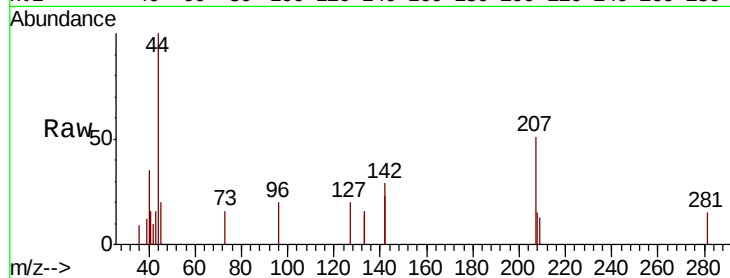




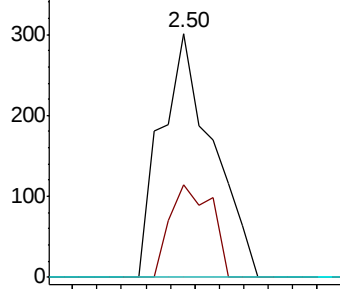
#10
Methvl Iodide
Concen: 3.197 ug/l
RT: 2.50 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX016562.D
Acq: 03 Jun 2020 12:56

Instrument :
MSVOA_X
ClientSampleId :
SP20-GMZ5-TB1

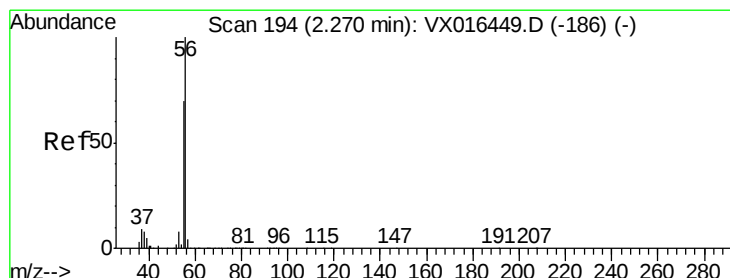
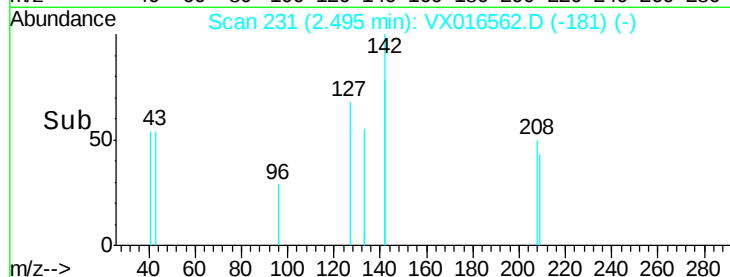
Tot Ion:142 Resp: 441
Ion Ratio Lower Upper
142 100
127 30.8 35.3 52.9#
141 0.0 11.4 17.2#



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

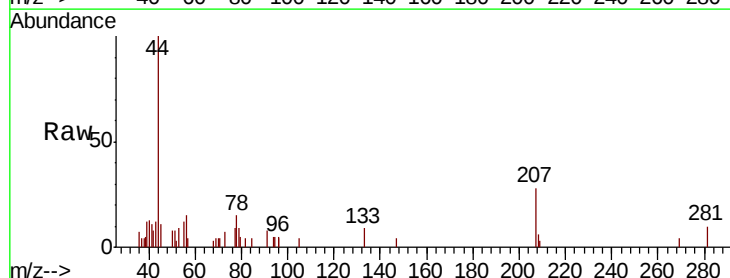


Time--> 2.45 2.50 2.55

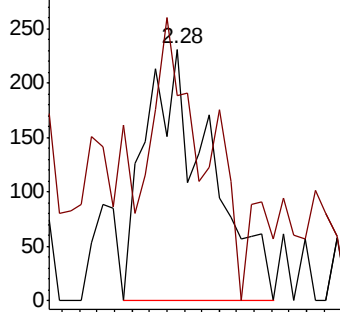


#13
Acrolein
Concen: 1.632 ug/l
RT: 2.28 min Scan# 195
Delta R.T. 0.01 min
Lab File: VX016562.D
Acq: 03 Jun 2020 12:56

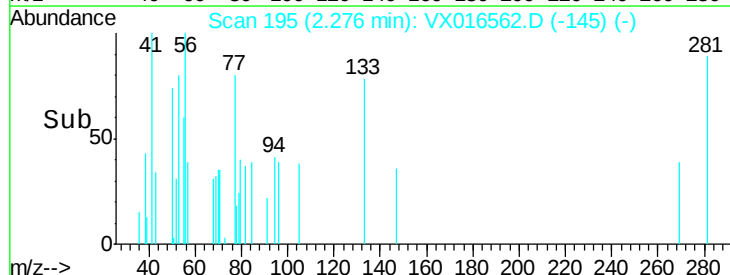
Tgt Ion: 56 Resp: 596
Ion Ratio Lower Upper
56 100
55 89.1 58.3 87.5#

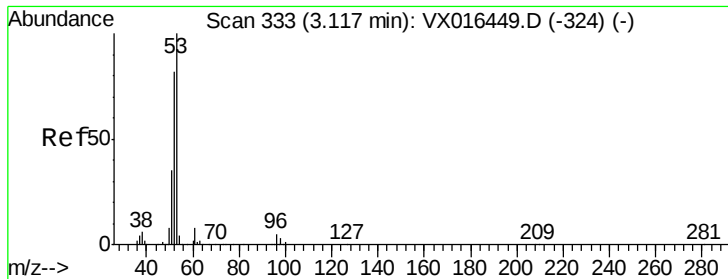


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0



Time--> 2.25 2.30 2.35





#15

Acrylonitrile

Concen: 0.242 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX016562.D

Acq: 03 Jun 2020 12:56

Instrument :

MSVOA_X

ClientSampleId :

SP20-GMZ5-TB1

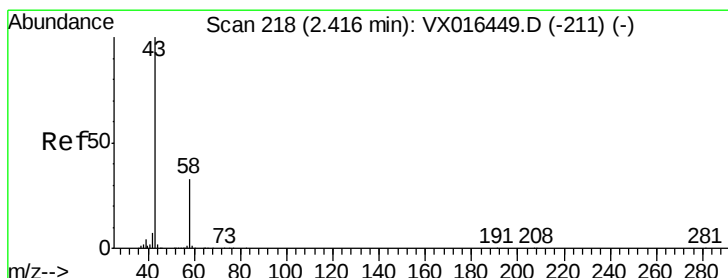
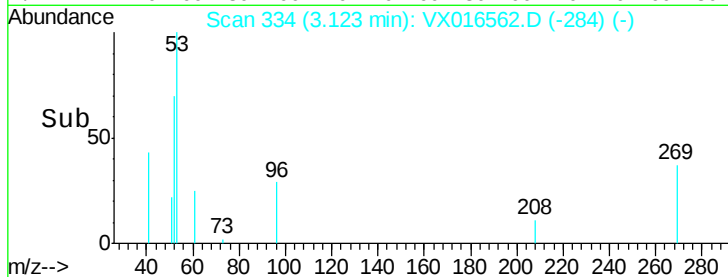
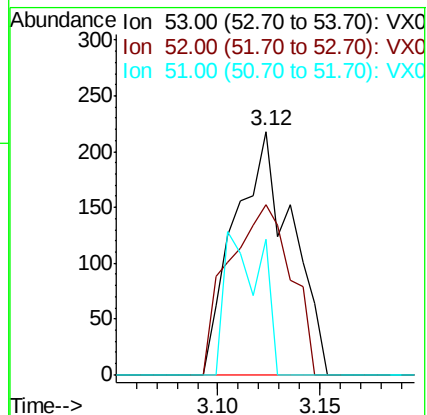
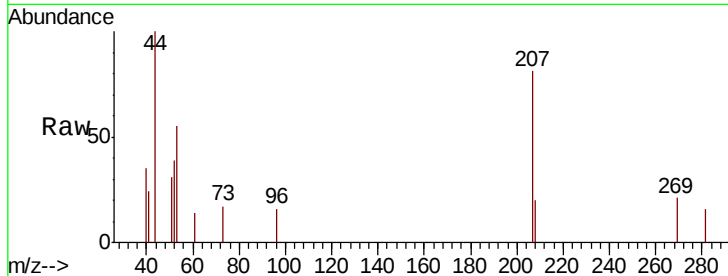
Tot Ion: 53 Resp: 425

Ion Ratio Lower Upper

53 100

52 76.2 66.7 100.1

51 36.9 28.6 43.0



#16

Acetone

Concen: 0.476 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX016562.D

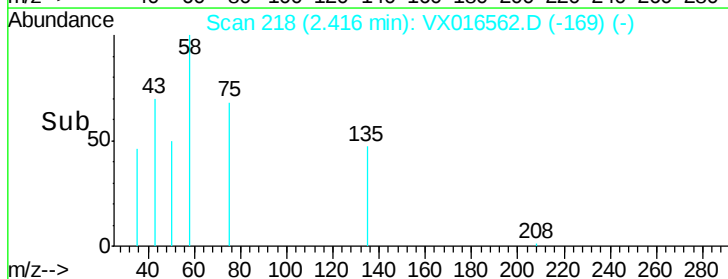
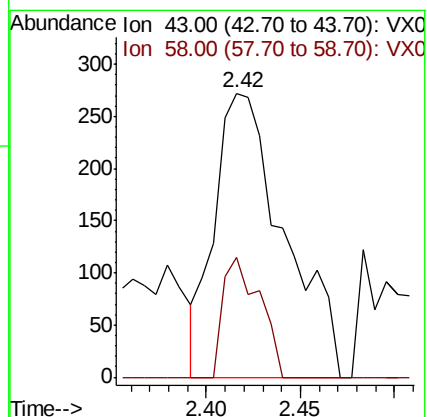
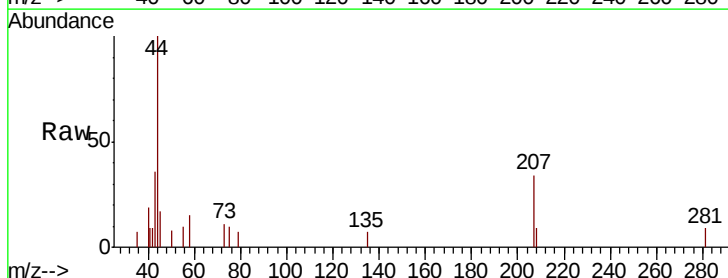
Acq: 03 Jun 2020 12:56

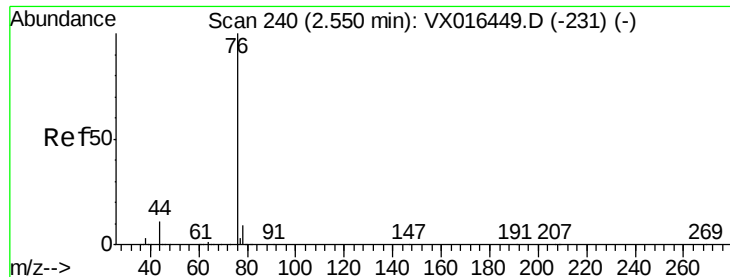
Tgt Ion: 43 Resp: 698

Ion Ratio Lower Upper

43 100

58 42.3 26.1 39.1#





#17

Carbon Disulfide

Concen: 0.203 ug/l

RT: 2.54 min Scan# 239

Delta R.T. -0.01 min

Lab File: VX016562.D

Acq: 03 Jun 2020 12:56

Instrument :

MSVOA_X

ClientSampleId :

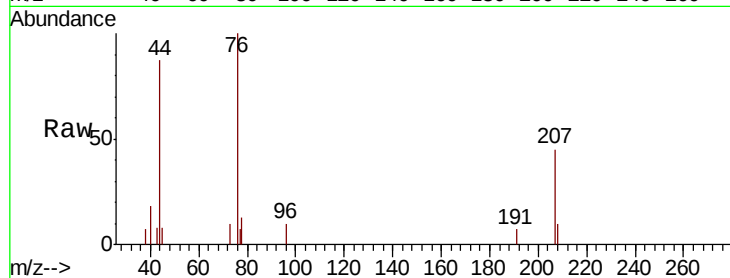
SP20-GMZ5-TB1

Tot Ion: 76 Resp: 1561

Ion Ratio Lower Upper

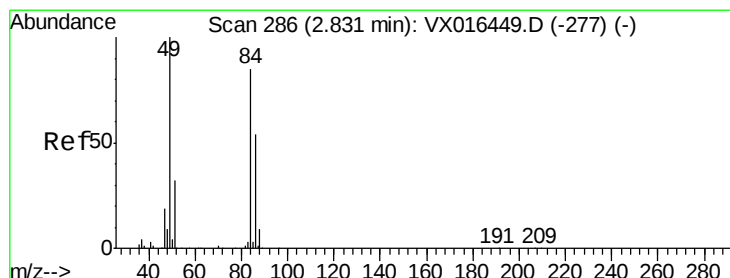
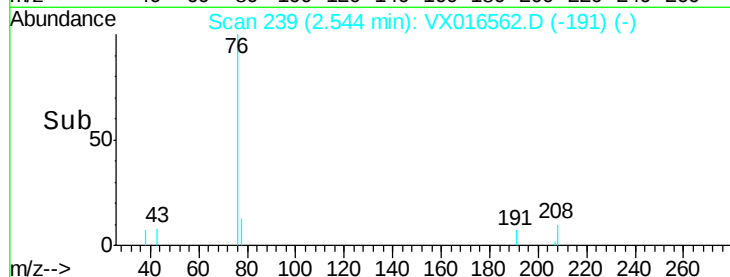
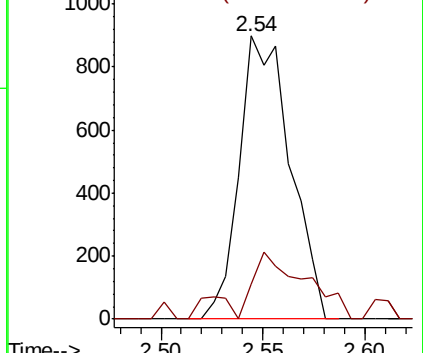
76 100

78 12.6 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.249 ug/l

RT: 2.84 min Scan# 288

Delta R.T. 0.01 min

Lab File: VX016562.D

Acq: 03 Jun 2020 12:56

Tgt Ion: 84 Resp: 755

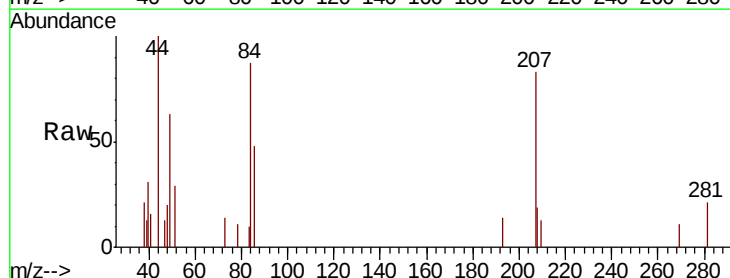
Ion Ratio Lower Upper

84 100

49 73.0 94.5 141.7#

51 33.8 30.2 45.4

86 55.3 51.1 76.7

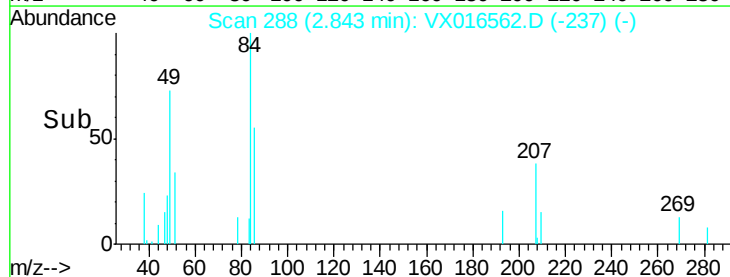
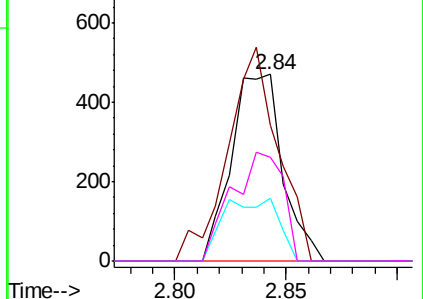


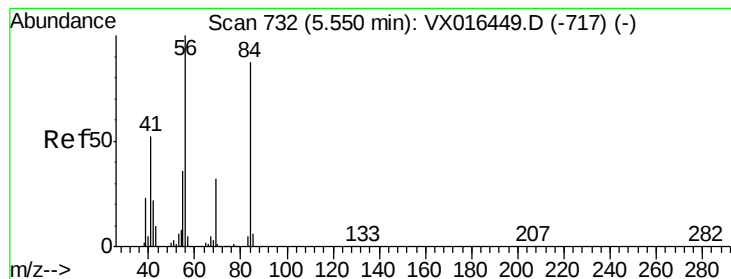
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#31

Cyclohexane

Concen: 1.056 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.07 min

Lab File: VX016562.D

Acq: 03 Jun 2020 12:56

Instrument :

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ClientSampleId :

SP20-GMZ5-TB1

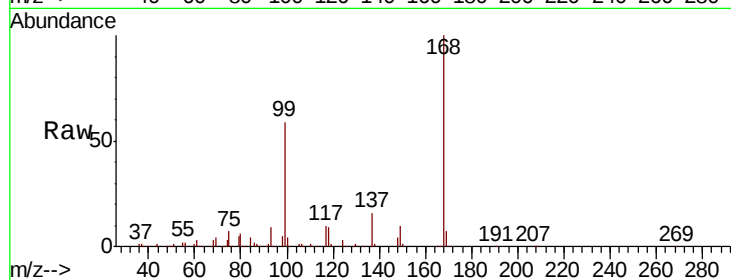
Tot Ion: 56 Resp: 4914

Ion Ratio Lower Upper

56 100

69 186.1 25.7 38.5#

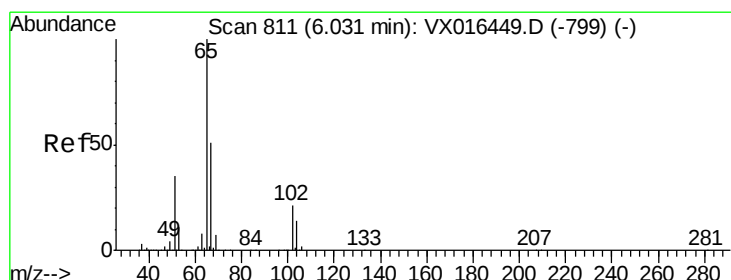
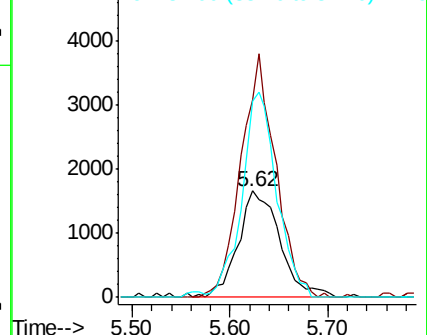
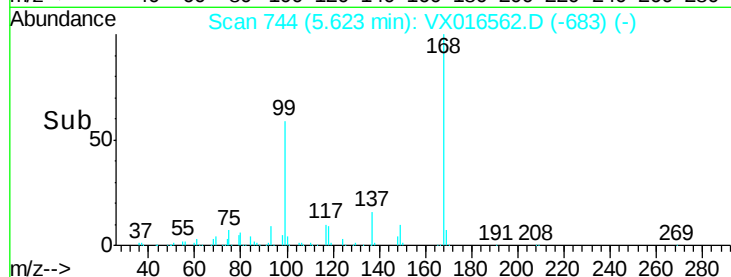
84 185.5 70.0 105.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 46.422 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX016562.D

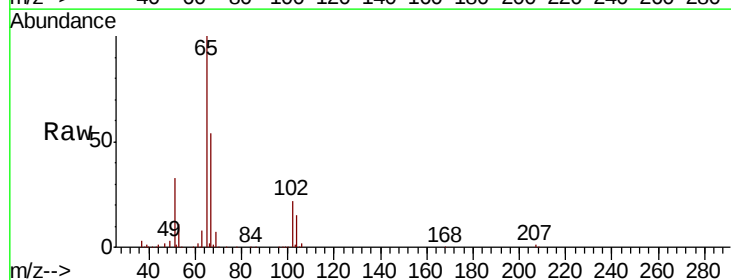
Acq: 03 Jun 2020 12:56

Tgt Ion: 65 Resp: 155387

Ion Ratio Lower Upper

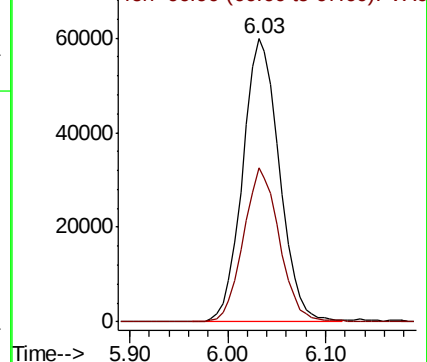
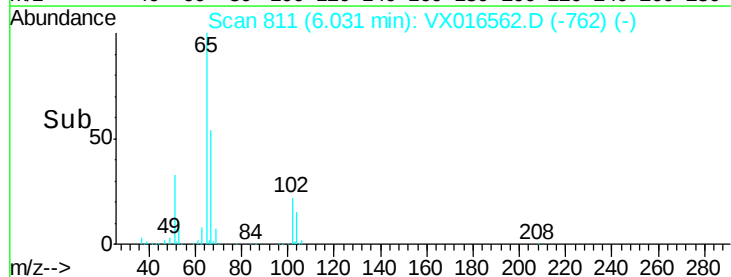
65 100

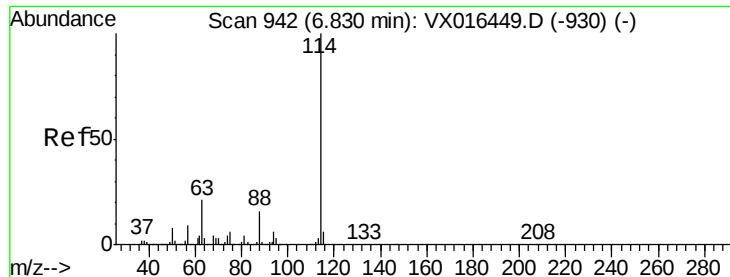
67 53.6 0.0 104.8



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. -0.00 min

Lab File: VX016562.D

Acq: 03 Jun 2020 12:56

Instrument :

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ClientSampleId :

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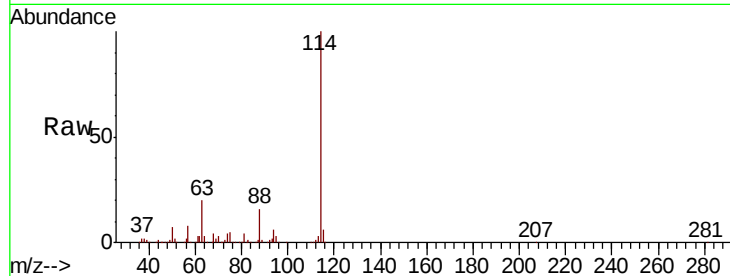
Tot Ion:114 Resp: 433710

Ion Ratio Lower Upper

114 100

63 20.1 0.0 42.6

88 16.3 0.0 32.8



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

250000

200000

150000

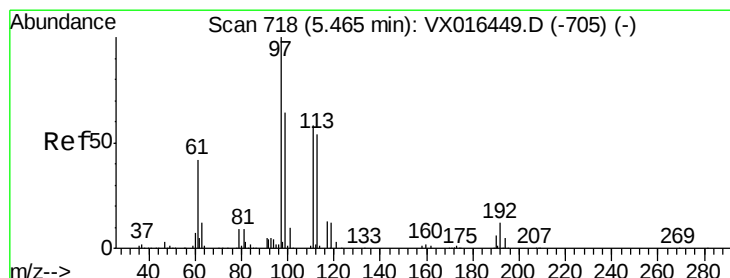
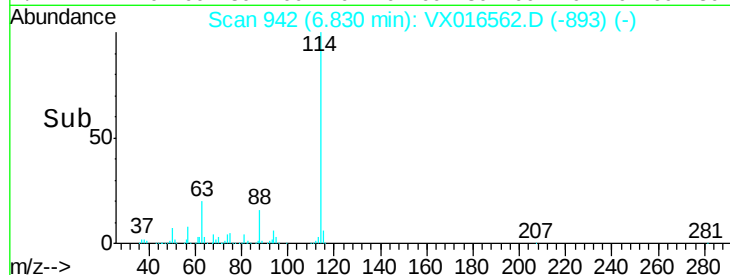
100000

50000

0

6.70 6.80 6.90

Time-->



#35

Dibromofluoromethane

Concen: 47.282 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX016562.D

Acq: 03 Jun 2020 12:56

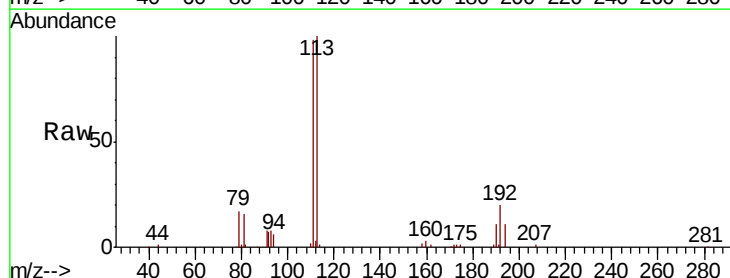
Tgt Ion:113 Resp: 126268

Ion Ratio Lower Upper

113 100

111 101.6 83.0 124.6

192 21.7 17.7 26.5



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

60000

50000

40000

30000

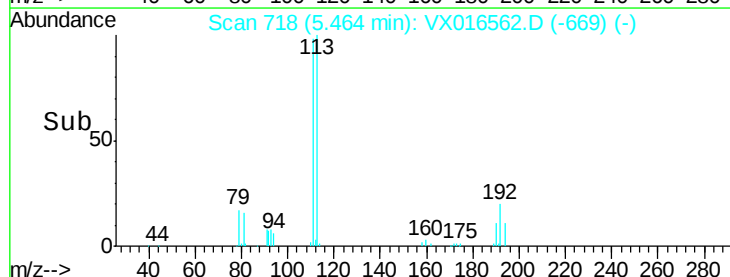
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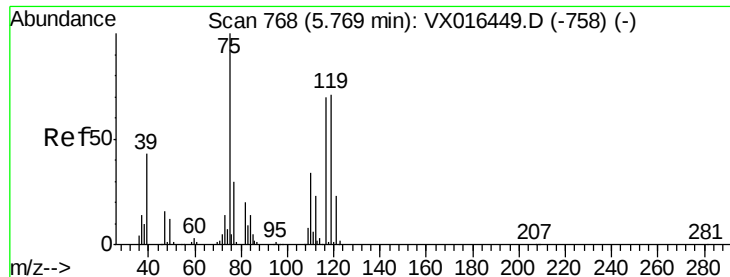
10000

0

5.30 5.40 5.50 5.60

Time-->

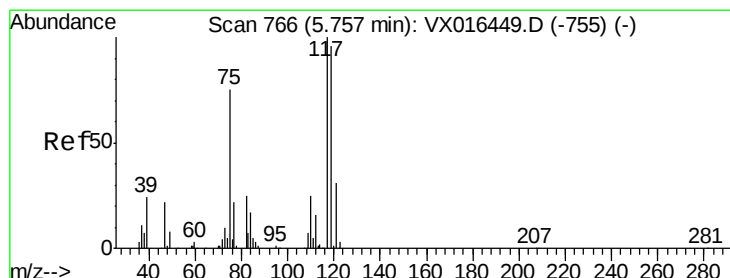
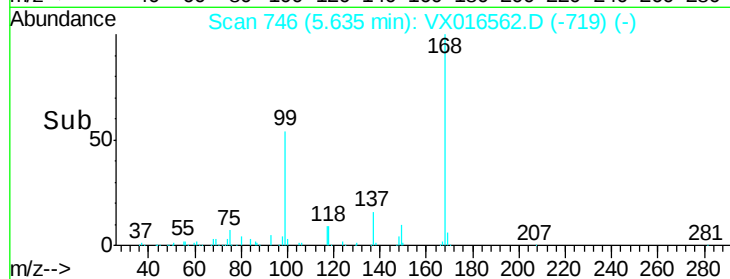
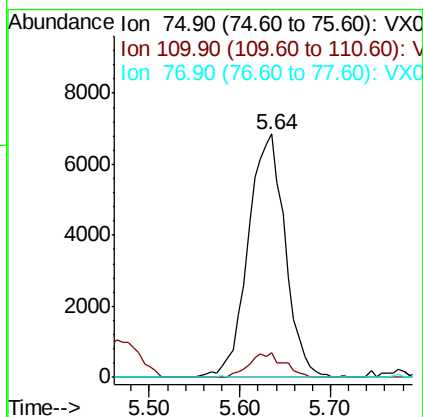
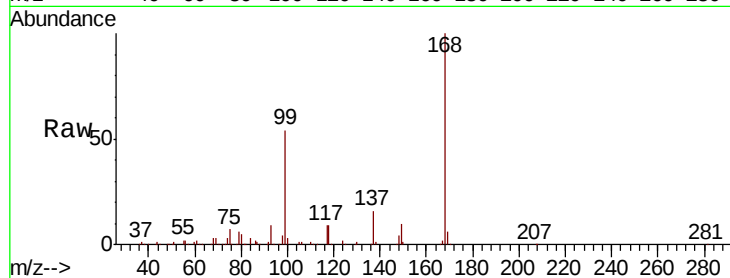




#36
 1,1-Dichloropropene
 Concen: 4.710 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX016562.D
 Acq: 03 Jun 2020 12:56

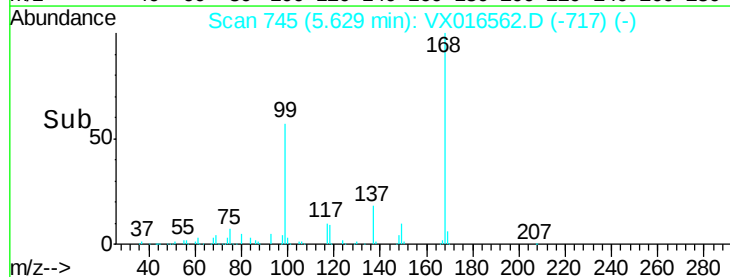
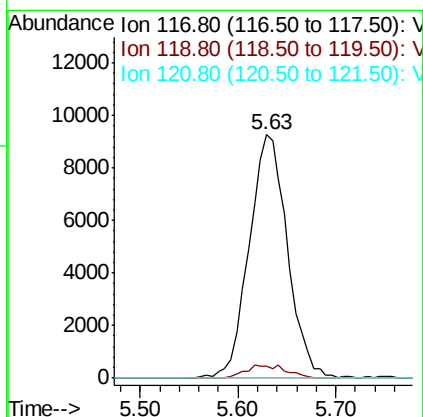
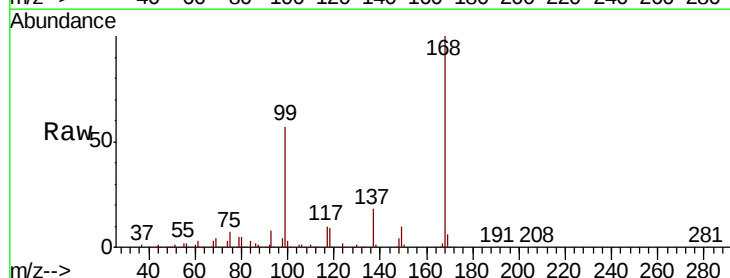
Instrument :
 MSVOA_X
 ClientSampleId :
 SP20-GMZ5-TB1

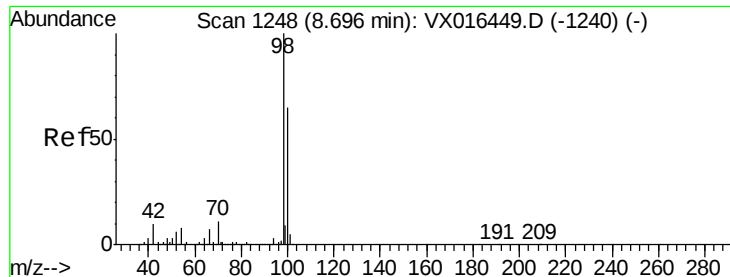
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.4	17.4	52.3#
77	0.0	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 5.846 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX016562.D
 Acq: 03 Jun 2020 12:56

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.8	76.3	114.5#
121	0.0	24.6	37.0#





#50

Toluene-d8

Concen: 52.156 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016562.D

Acq: 03 Jun 2020 12:56

Instrument :

MSVOA_X

ClientSampleId :

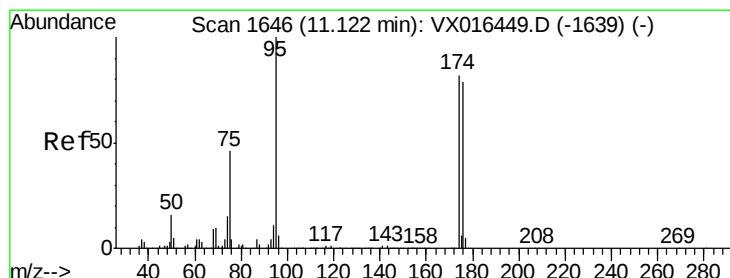
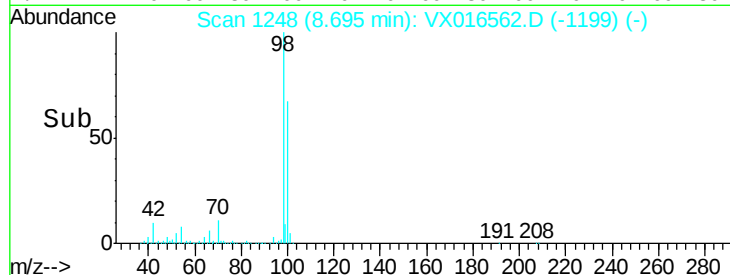
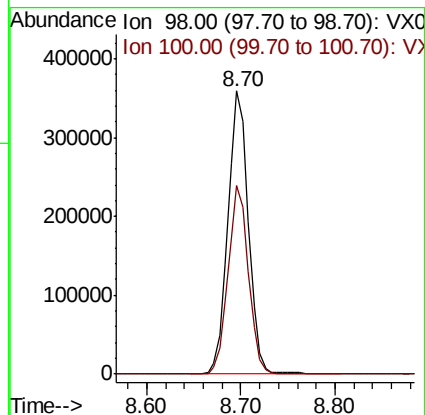
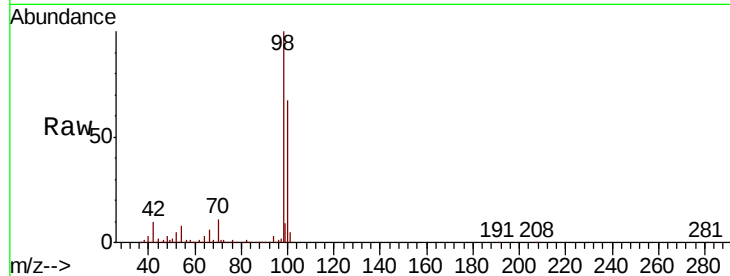
SP20-GMZ5-TB1

Tot Ion: 98 Resp: 542127

Ion Ratio Lower Upper

98 100

100 66.2 53.8 80.6



#62

4-Bromofluorobenzene

Concen: 53.988 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016562.D

Acq: 03 Jun 2020 12:56

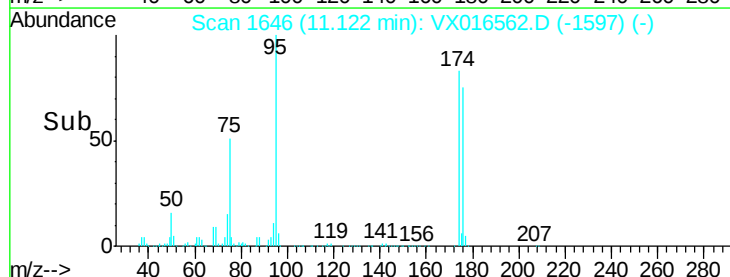
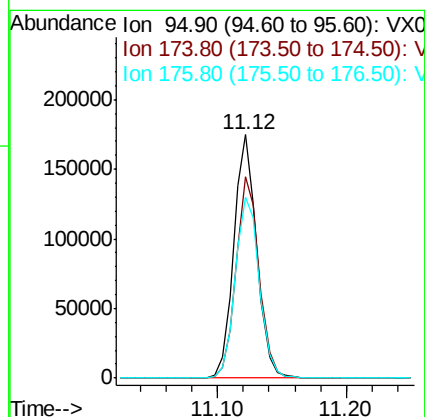
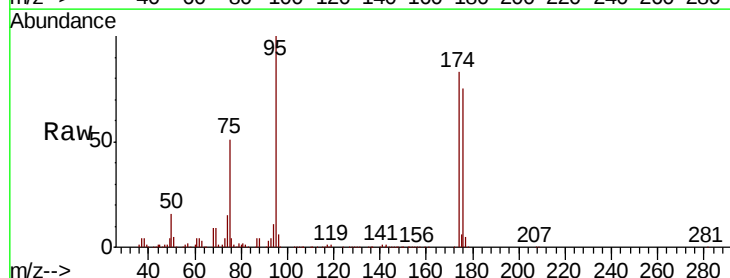
Tgt Ion: 95 Resp: 216837

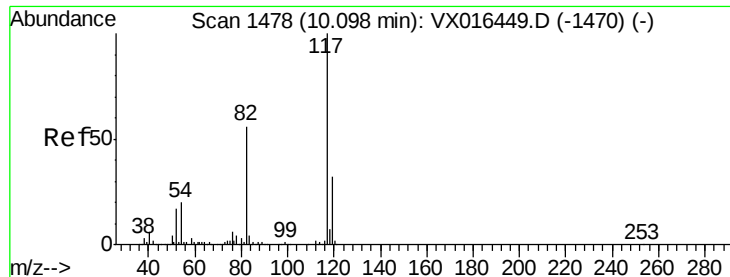
Ion Ratio Lower Upper

95 100

174 83.2 0.0 163.0

176 78.3 0.0 156.8

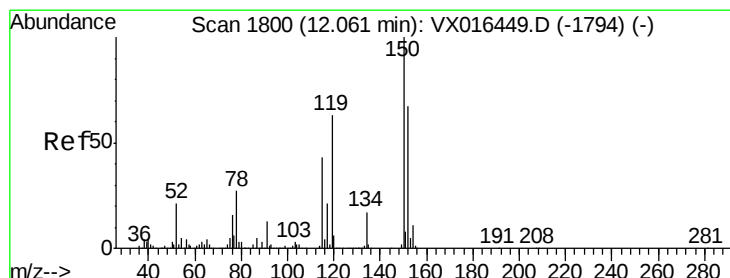
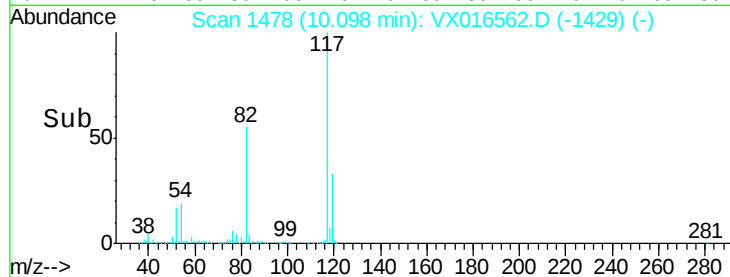
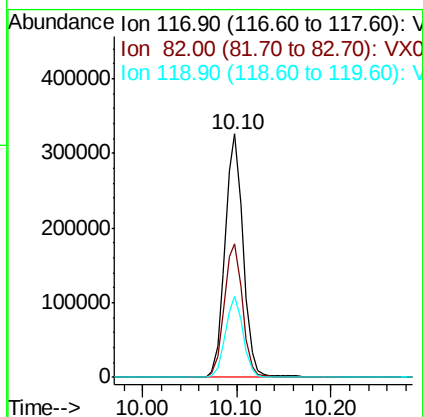
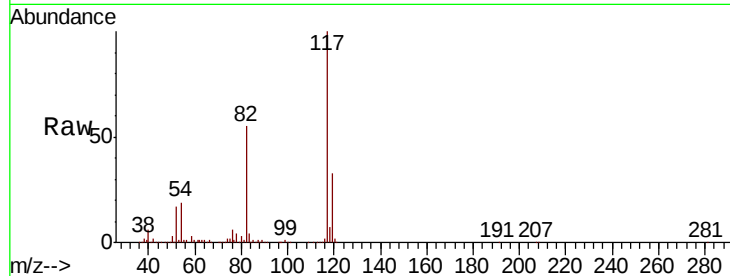




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016562.D
Acq: 03 Jun 2020 12:56

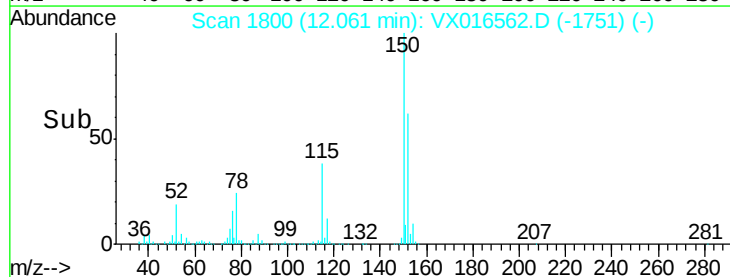
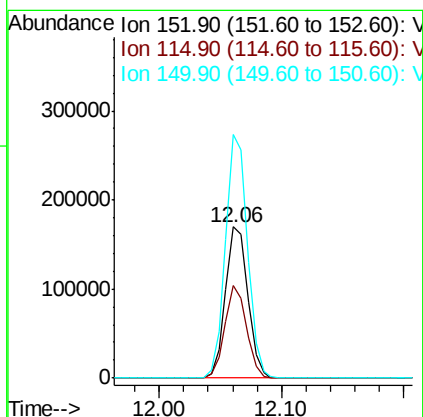
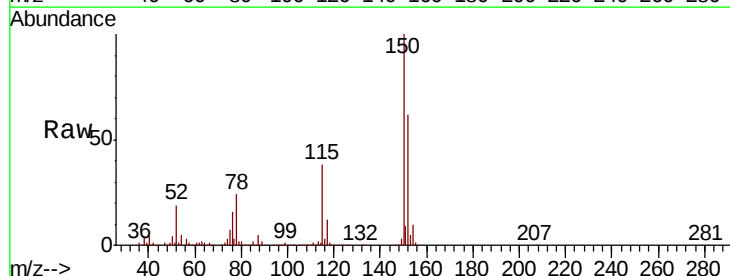
Instrument :
MSVOA_X
ClientSampleId :
SP20-GMZ5-TB1

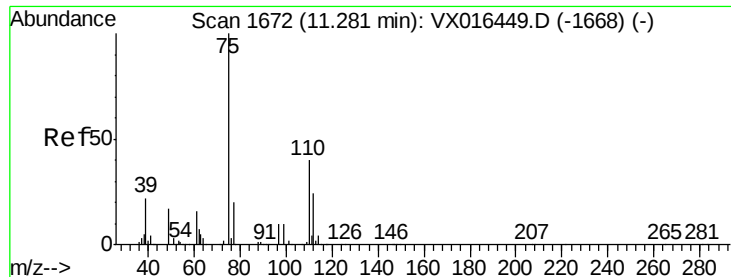
Tot Ion:117 Resp: 434463
Ion Ratio Lower Upper
117 100
82 54.7 45.0 67.6
119 33.1 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX016562.D
Acq: 03 Jun 2020 12:56

Tgt Ion:152 Resp: 215573
Ion Ratio Lower Upper
152 100
115 59.0 39.9 119.6
150 158.0 0.0 341.0





#76

1,2,3-Trichloropropane

Concen: 22.306 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016562.D

Acq: 03 Jun 2020 12:56

Instrument :

MSVOA_X

ClientSampleId :

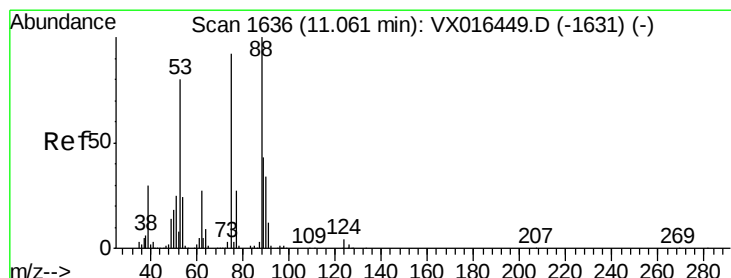
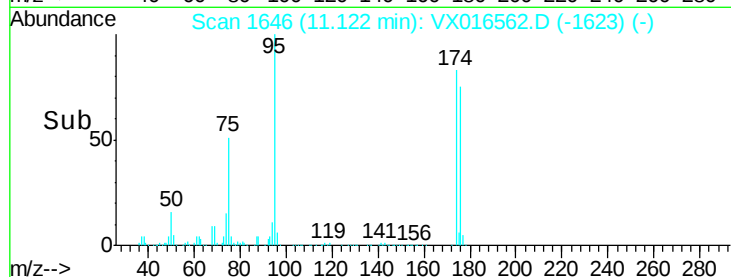
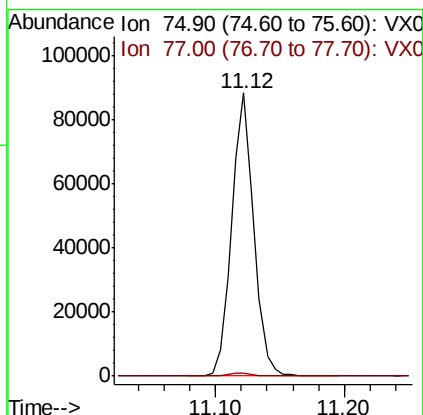
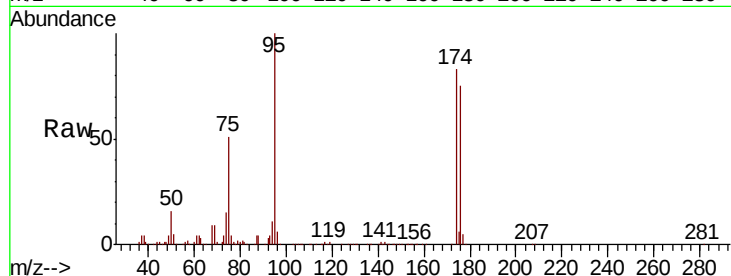
SP20-GMZ5-TB1

Tot Ion: 75 Resp: 105697

Ion Ratio Lower Upper

75 100

77 1.2 21.3 63.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 54.871 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016562.D

Acq: 03 Jun 2020 12:56

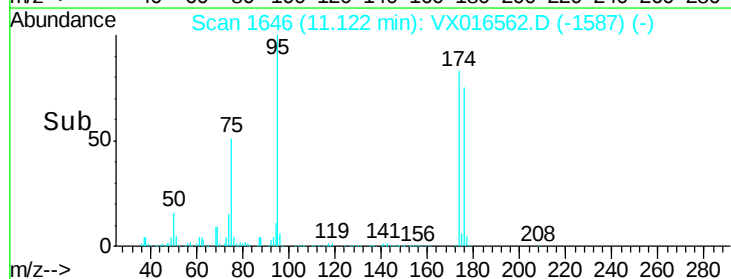
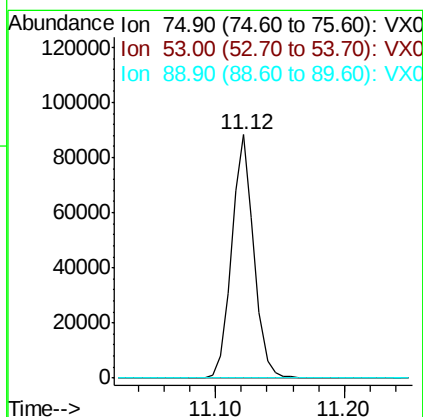
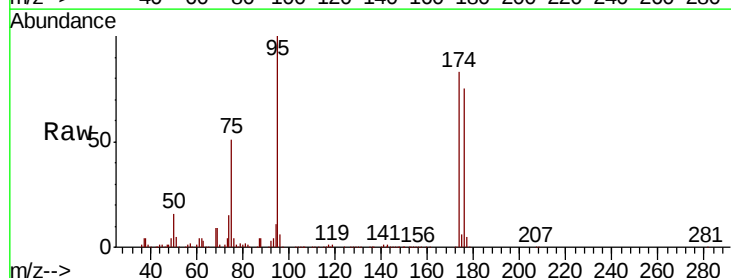
Tgt Ion: 75 Resp: 105697

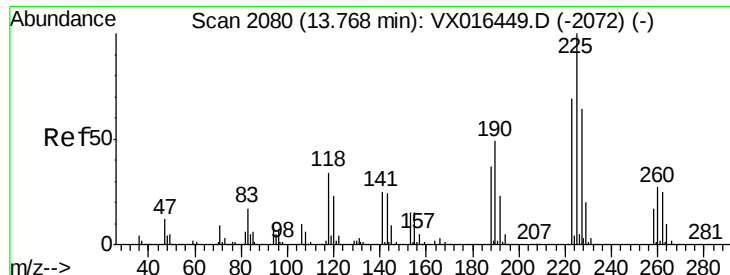
Ion Ratio Lower Upper

75 100

53 0.0 71.3 106.9#

89 0.0 36.6 55.0#





#94

Hexachlorobutadiene

Concen: 0.203 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX016562.D

Acq: 03 Jun 2020 12:56

Instrument :

MSVOA_X

ClientSampleId :

SP20-GMZ5-TB1

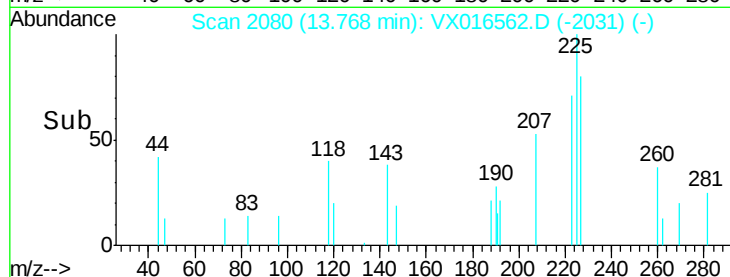
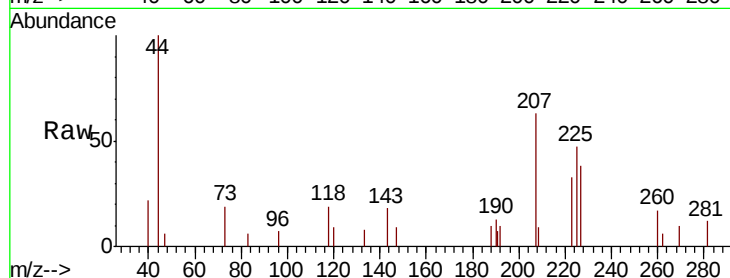
Tot Ion:225 Resp: 348

Ion Ratio Lower Upper

225 100

223 100.6 32.3 96.8#

227 80.7 31.6 94.7



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

Abundance

500

400

300

200

100

0

13.74 13.76 13.78 13.80

Time-->