

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052020\
 Data File : VX016357.D
 Acq On : 20 May 2020 14:06
 Operator : JC/SP
 Sample : L2684-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 21 03:52:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	251006	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	426331	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	406106	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	195679	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	149739	45.33	ug/l	0.00
Spiked Amount			Recovery	=	90.66%	
35) Dibromofluoromethane	5.47	113	120785	44.72	ug/l	0.00
Spiked Amount			Recovery	=	89.44%	
50) Toluene-d8	8.70	98	514559	49.44	ug/l	0.00
Spiked Amount			Recovery	=	98.88%	
62) 4-Bromofluorobenzene	11.12	95	203928	51.52	ug/l	0.00
Spiked Amount			Recovery	=	103.04%	

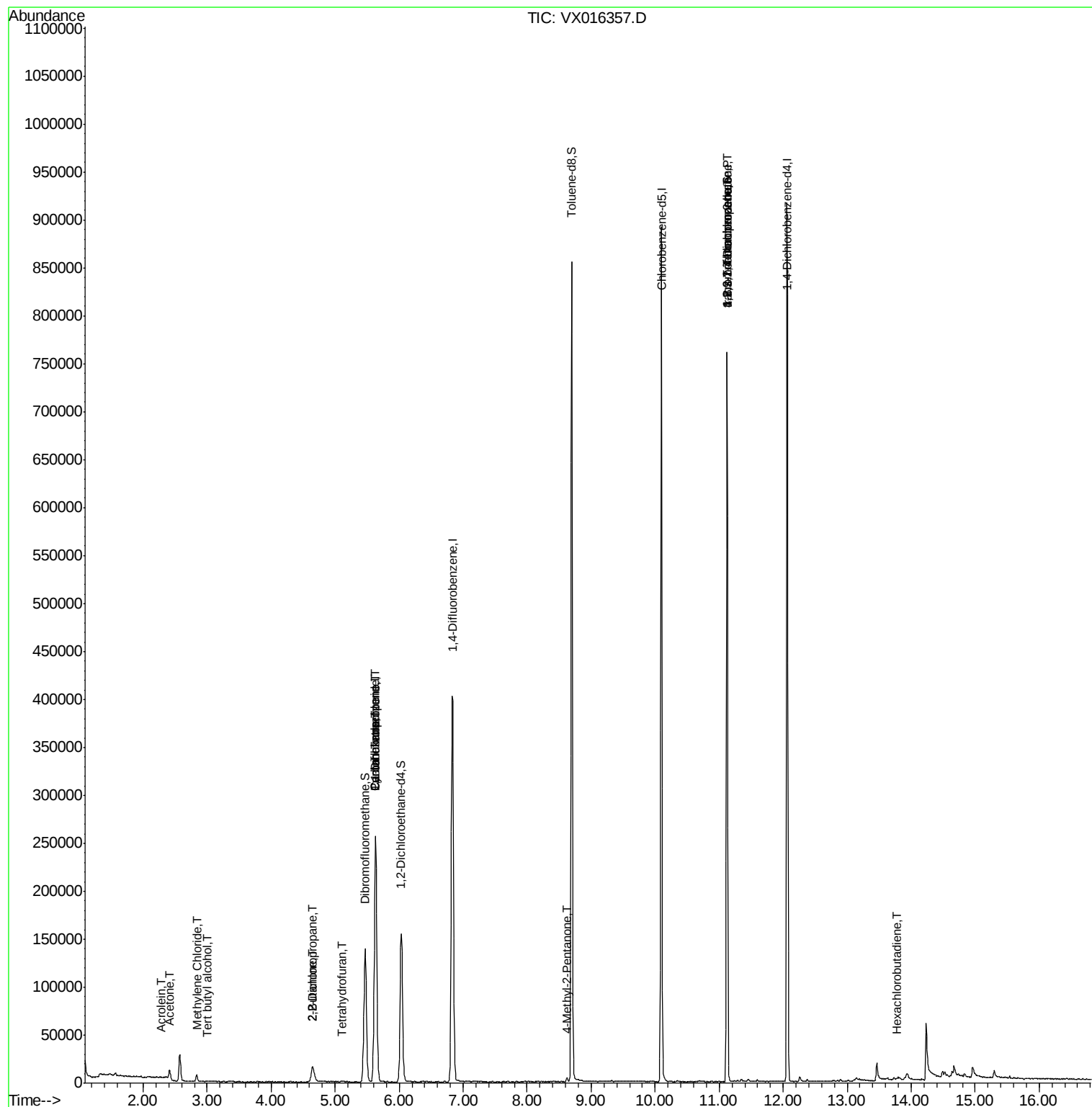
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.00	59	418	0.500	ug/l #	72
13) Acrolein	2.28	56	547	1.047	ug/l	95
16) Acetone	2.42	43	9568	6.492	ug/l	89
17) Carbon Disulfide	2.55	76	965	Below Cal	#	67
20) Methylene Chloride	2.84	84	3348	1.102	ug/l	86
25) 2-Butanone	4.64	43	3184	1.341	ug/l	94
26) 2,2-Dichloropropane	4.65	77	1448	0.314	ug/l #	53
29) Tetrahydrofuran	5.11	42	785	0.499	ug/l #	78
31) Cyclohexane	5.62	56	4792	1.044	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	18949	4.515	ug/l #	49
38) Carbon Tetrachloride	5.63	117	24161	5.664	ug/l #	14
51) 4-Methyl-2-Pentanone	8.62	43	2698	0.568	ug/l	90
75) 1,1,2,2-Tetrachloroethane	11.12	83	146	2.104	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	96537	21.741	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	96537	51.809	ug/l #	13
94) Hexachlorobutadiene	13.77	225	102	0.573	ug/l #	50

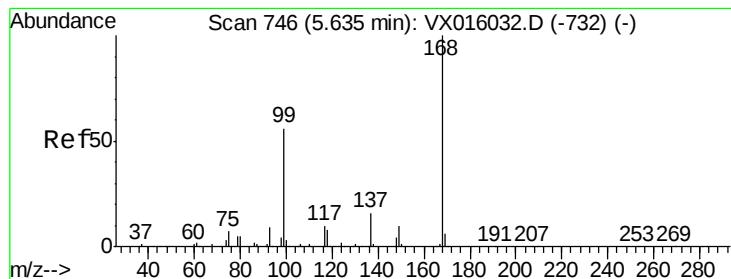
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed May 06 06:43:32 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: VX016357.D

Acq: 20 May 2020 14:06

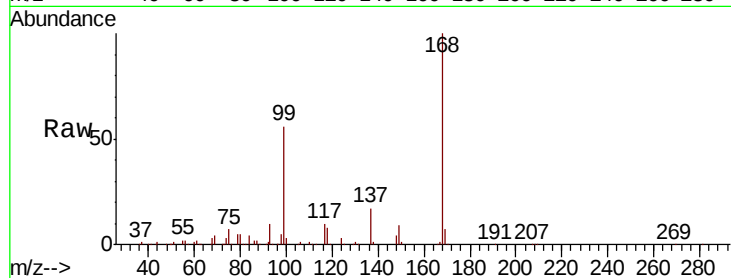
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 251006

Ion Ratio Lower Upper

168 100

99 56.2 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

80000

60000

40000

20000

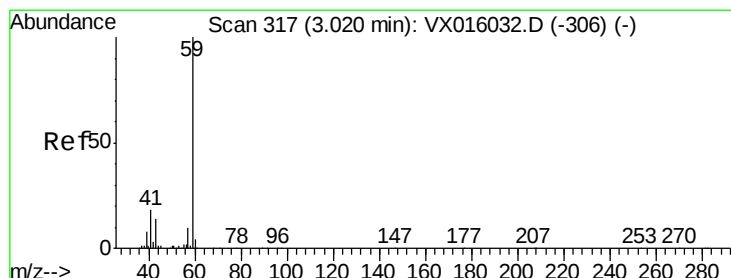
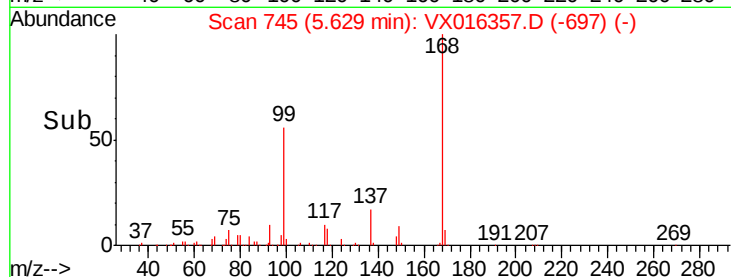
0

Time-->

5.50

5.60

5.70



#11

Tert butyl alcohol

Concen: 0.500 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.02 min

Lab File: VX016357.D

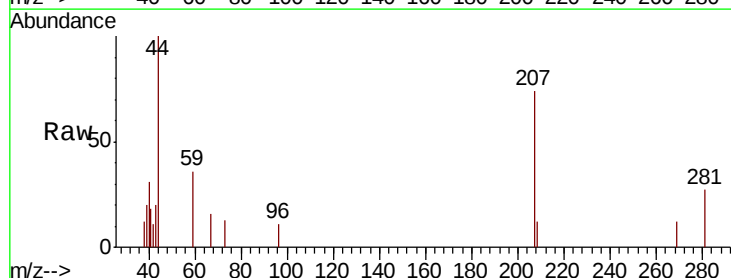
Acq: 20 May 2020 14:06

Tgt Ion: 59 Resp: 418

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.00

200

150

100

50

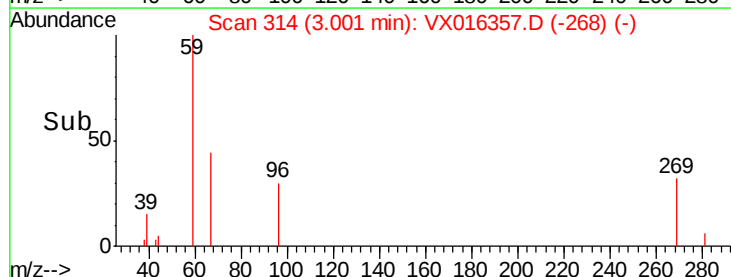
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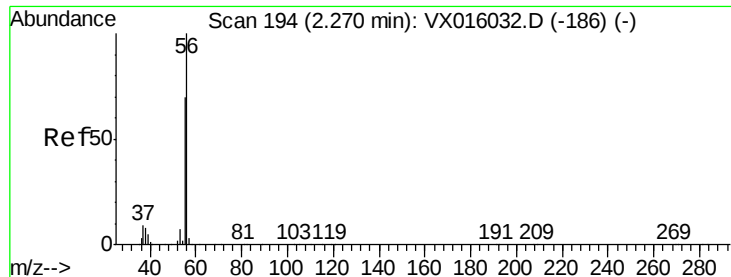
Time-->

2.95

3.00

3.05





#13

Acrolein

Concen: 1.047 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX016357.D

Acq: 20 May 2020 14:06

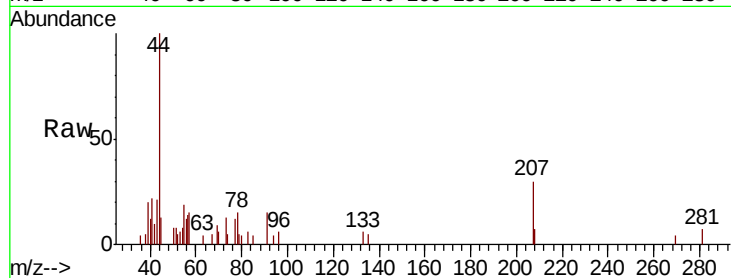
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 547

Ion Ratio Lower Upper

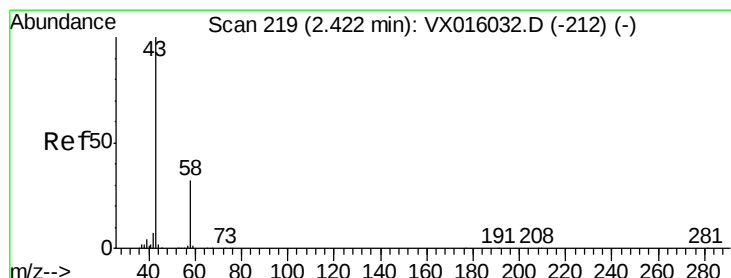
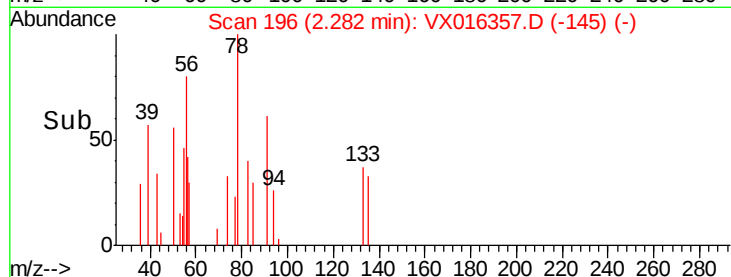
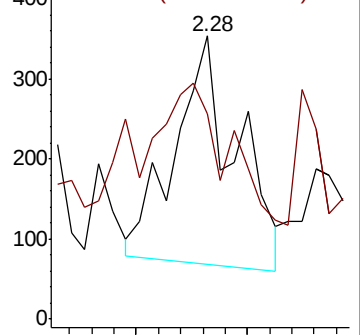
56 100

55 66.2 56.5 84.7



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 6.492 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016357.D

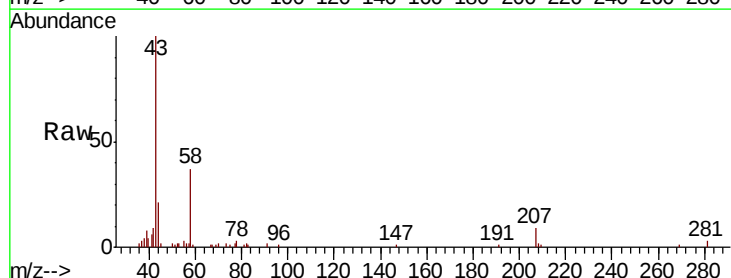
Acq: 20 May 2020 14:06

Tgt Ion: 43 Resp: 9568

Ion Ratio Lower Upper

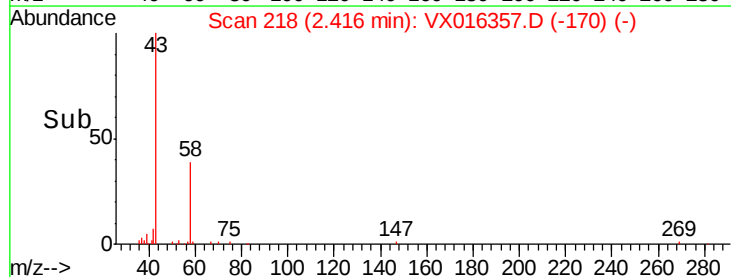
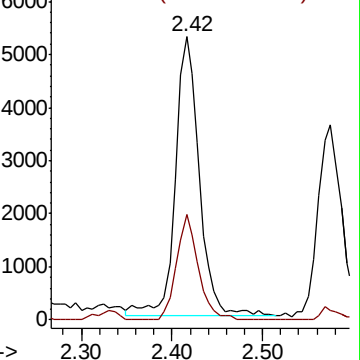
43 100

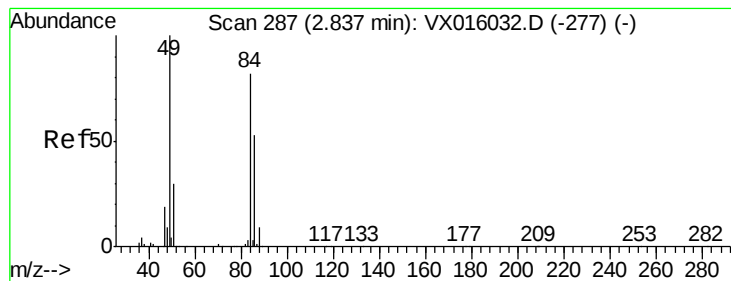
58 37.9 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#20

Methylene Chloride

Concen: 1.102 ug/l

RT: 2.84 min Scan# 288

Delta R.T. 0.01 min

Lab File: VX016357.D

Acq: 20 May 2020 14:06

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 84 Resp: 3348

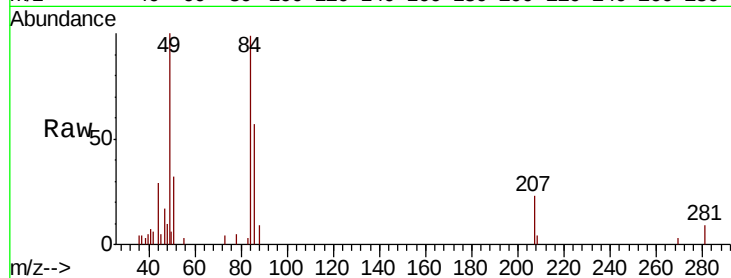
Ion Ratio Lower Upper

84 100

49 100.9 97.3 145.9

51 32.0 29.3 43.9

86 57.8 51.3 76.9

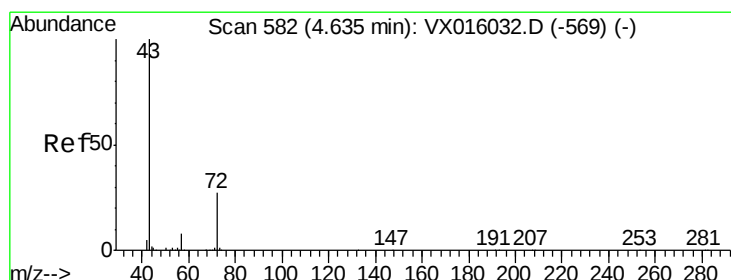
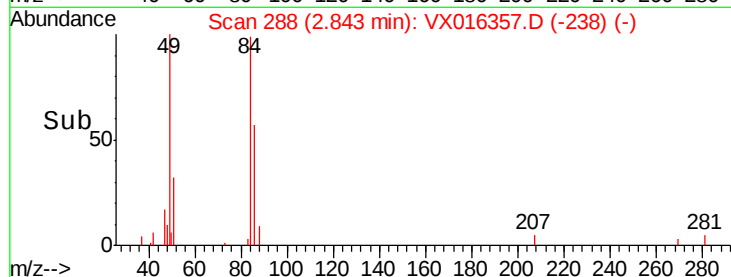
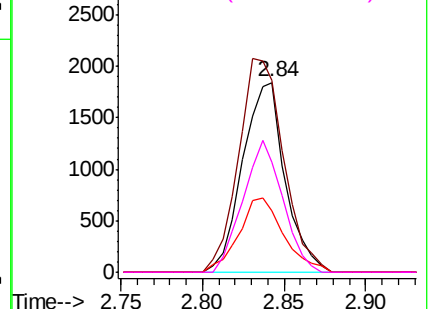


Abundance Ion 83.90 (83.60 to 84.60): VX0

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



#25

2-Butanone

Concen: 1.341 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX016357.D

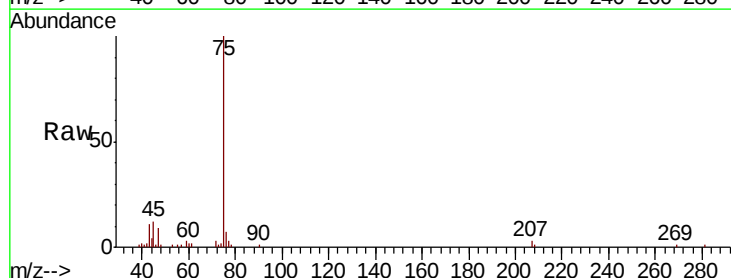
Acq: 20 May 2020 14:06

Tgt Ion: 43 Resp: 3184

Ion Ratio Lower Upper

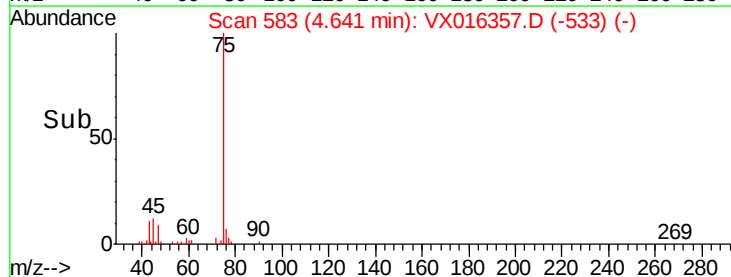
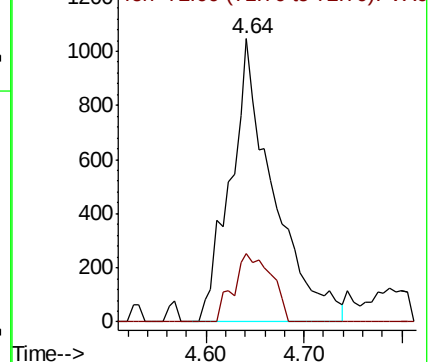
43 100

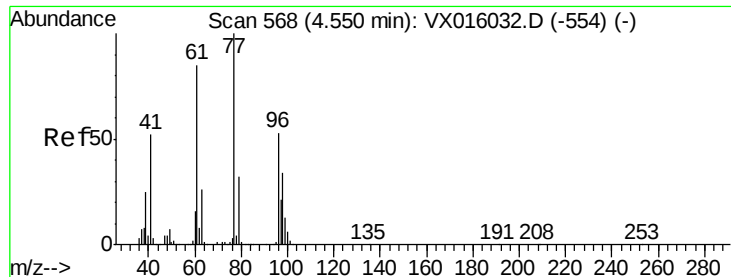
72 24.0 21.8 32.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#26

2,2-Dichloropropane

Concen: 0.314 ug/l

RT: 4.65 min Scan# 585

Delta R.T. 0.10 min

Lab File: VX016357.D

Acq: 20 May 2020 14:06

Instrument :

MSVOA_X

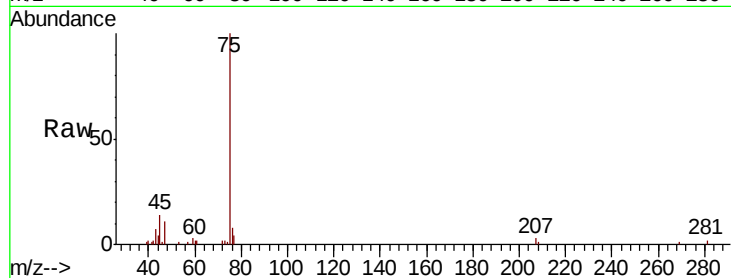
ClientSampleId :

Tot Ion: 77 Resp: 1448

Ion Ratio Lower Upper

77 100

97 0.0 11.2 33.6#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

4.65

400

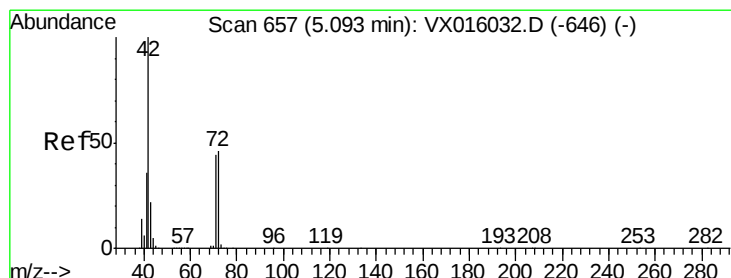
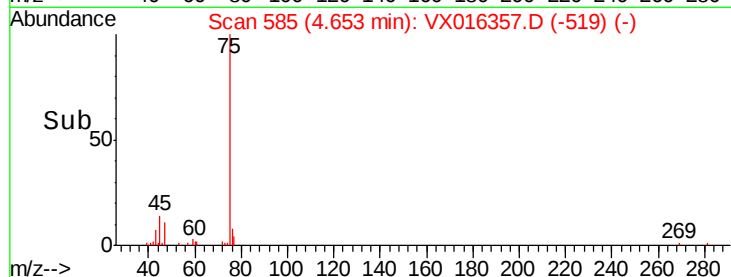
300

200

100

0

Time--> 4.55 4.60 4.65 4.70 4.75



#29

Tetrahydrofuran

Concen: 0.499 ug/l

RT: 5.11 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX016357.D

Acq: 20 May 2020 14:06

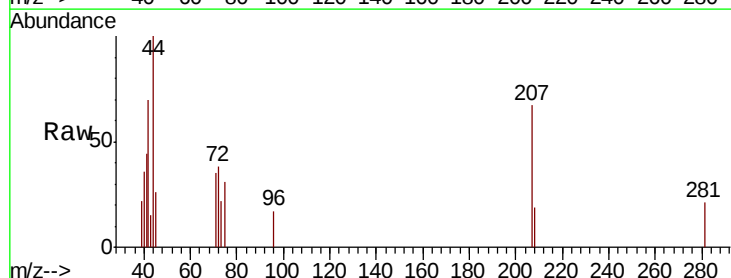
Tgt Ion: 42 Resp: 785

Ion Ratio Lower Upper

42 100

72 22.2 37.1 55.7#

71 38.6 34.5 51.7



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

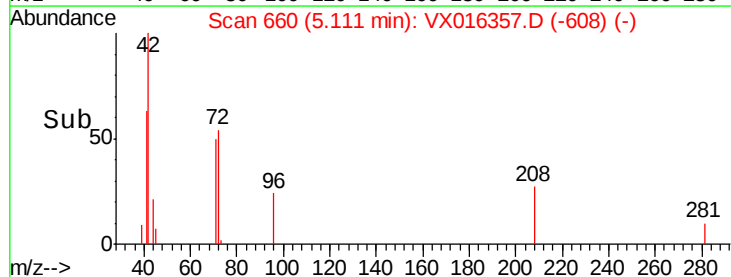
300

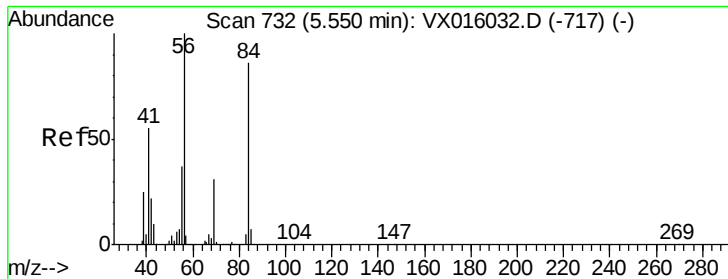
200

100

0

Time--> 5.05 5.10 5.15 5.20

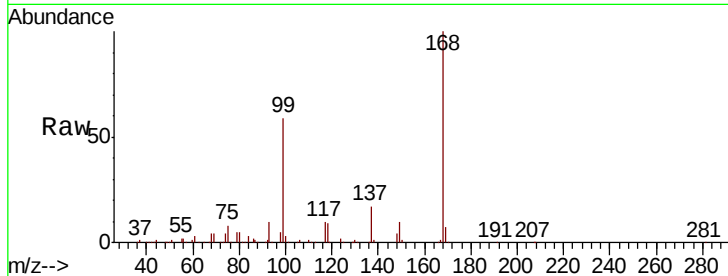




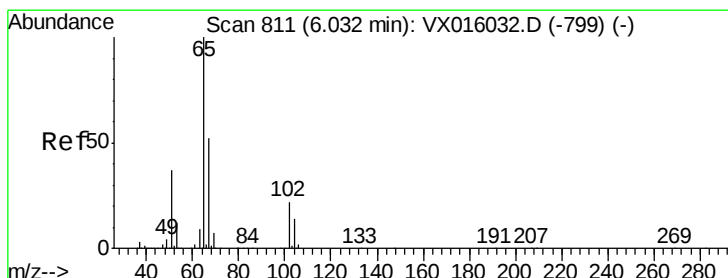
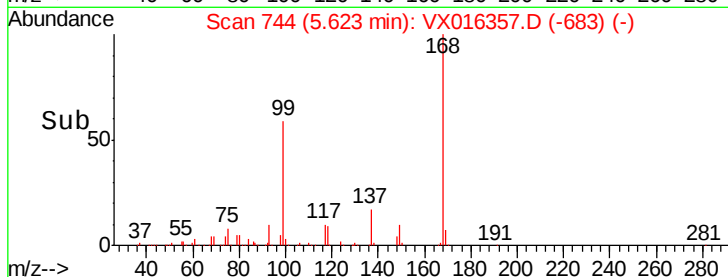
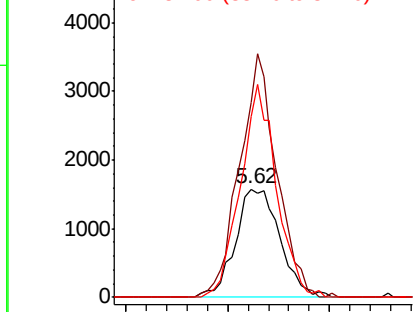
#31
Cyclohexane
Concen: 1.044 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.07 min
Lab File: VX016357.D
Acq: 20 May 2020 14:06

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 4792
Ion Ratio Lower Upper
56 100
69 179.9 25.0 37.6#
84 167.4 69.0 103.6#

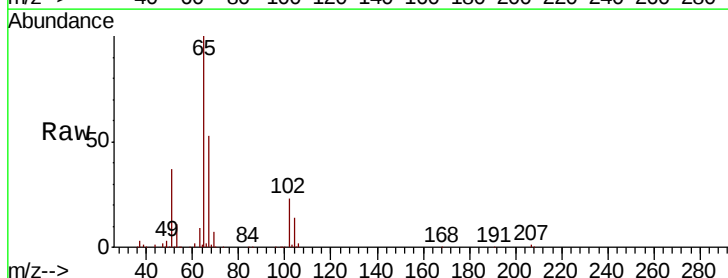


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

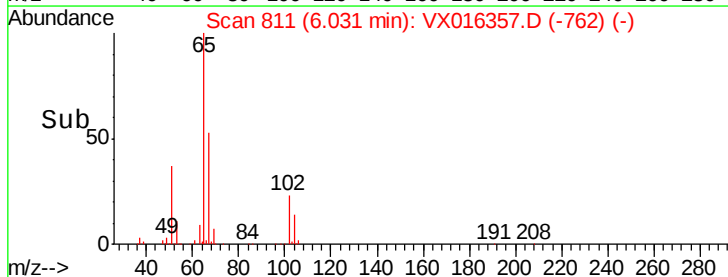
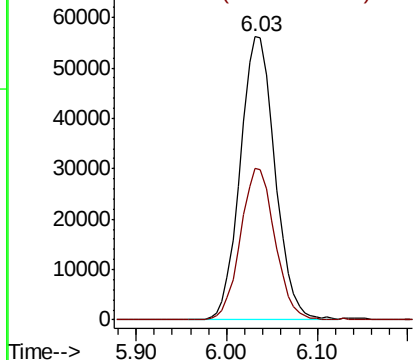


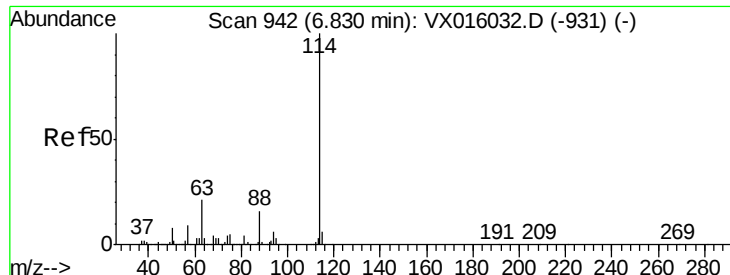
#33
1,2-Dichloroethane-d4
Concen: 45.334 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX016357.D
Acq: 20 May 2020 14:06

Tgt Ion: 65 Resp: 149739
Ion Ratio Lower Upper
65 100
67 53.1 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

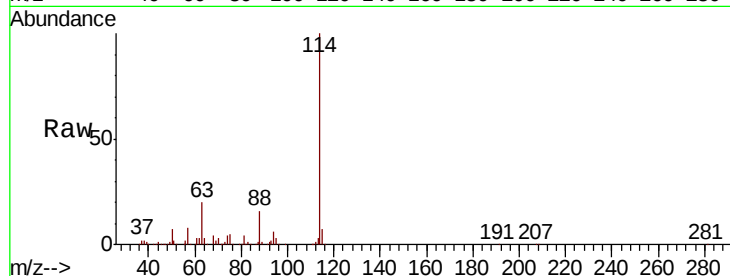




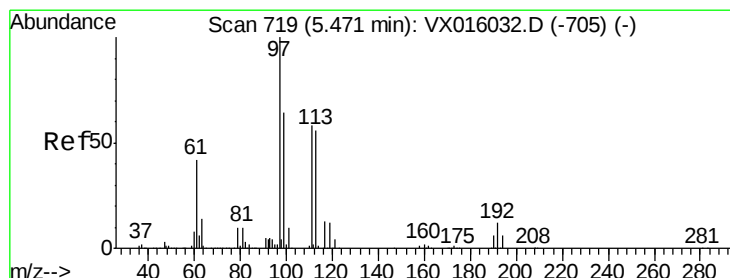
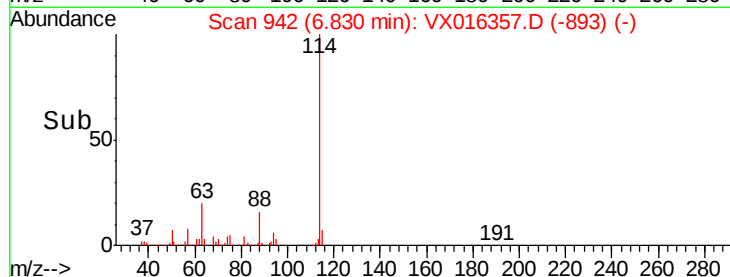
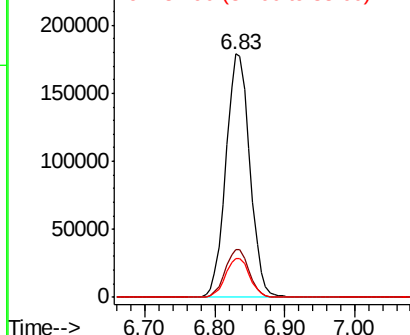
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.83 min Scan# 942
Delta R.T. -0.00 min
Lab File: VX016357.D
Acq: 20 May 2020 14:06

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	42.8
88	16.1	0.0	31.4

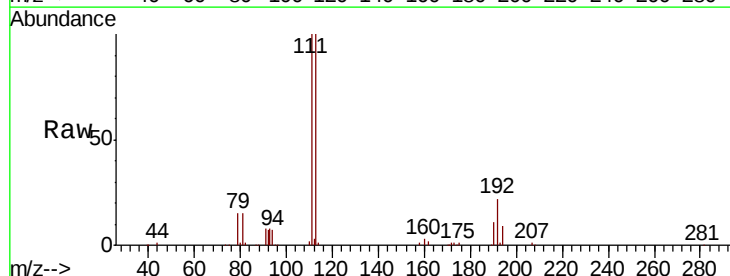


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

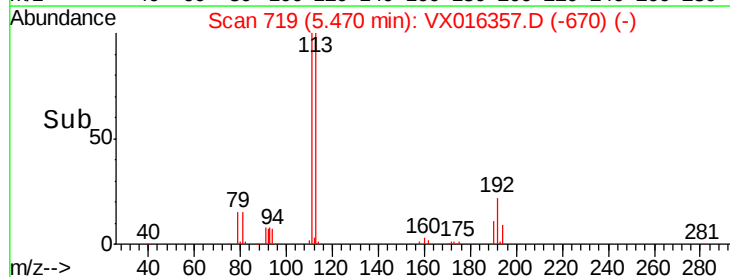
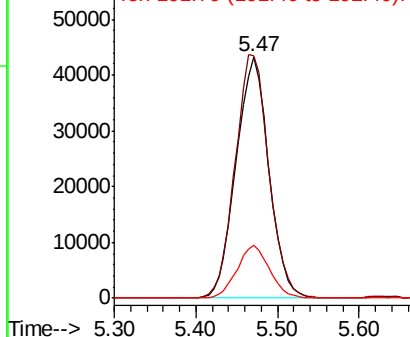


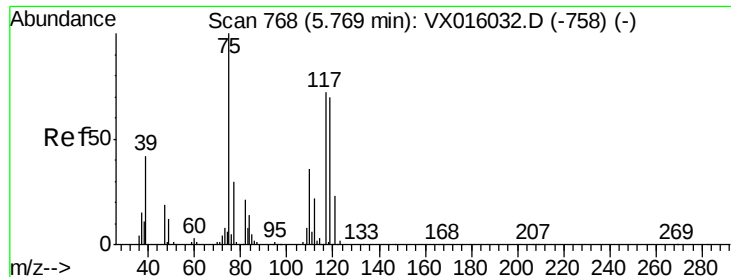
#35
Dibromofluoromethane
Concen: 44.719 ug/l
RT: 5.47 min Scan# 719
Delta R.T. -0.00 min
Lab File: VX016357.D
Acq: 20 May 2020 14:06

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.3	81.6	122.4
192	21.8	17.0	25.4



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: 4.515 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016357.D

Acq: 20 May 2020 14:06

Instrument :

MSVOA_X

ClientSampleId :

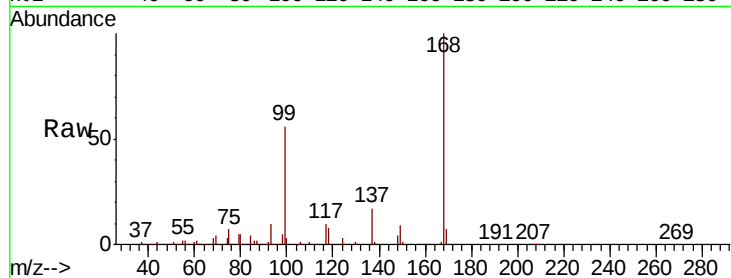
Tot Ion: 75 Resp: 18949

Ion Ratio Lower Upper

75 100

110 8.7 18.1 54.1#

77 0.0 25.0 37.6#

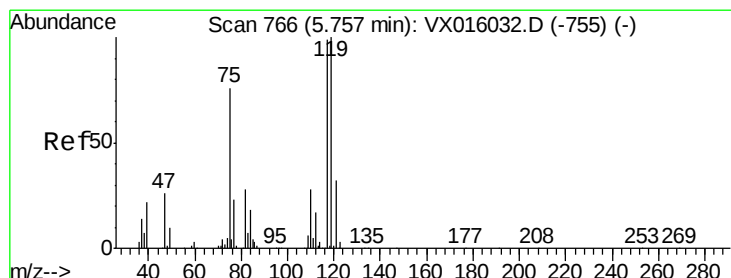
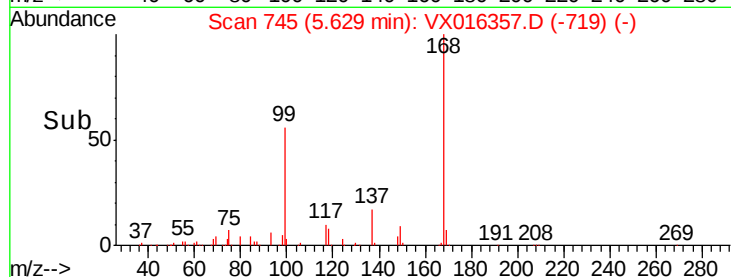


Abundance Ion 74.90 (74.60 to 75.60): VX016032.D (-758) (-)

Ion 109.90 (109.60 to 110.60): VX016032.D (-758) (-)

Ion 76.90 (76.60 to 77.60): VX016032.D (-758) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.664 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016357.D

Acq: 20 May 2020 14:06

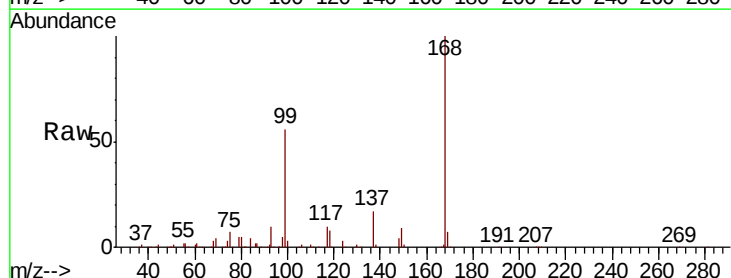
Tgt Ion: 117 Resp: 24161

Ion Ratio Lower Upper

117 100

119 4.8 80.3 120.5#

121 0.0 25.7 38.5#

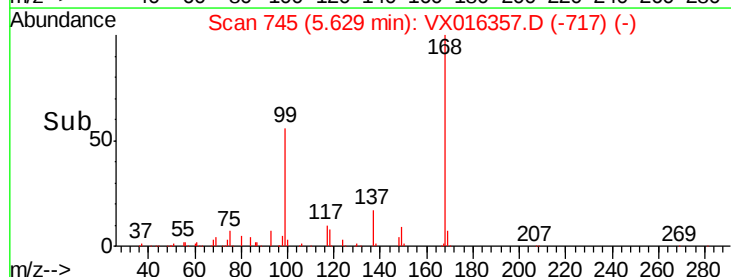


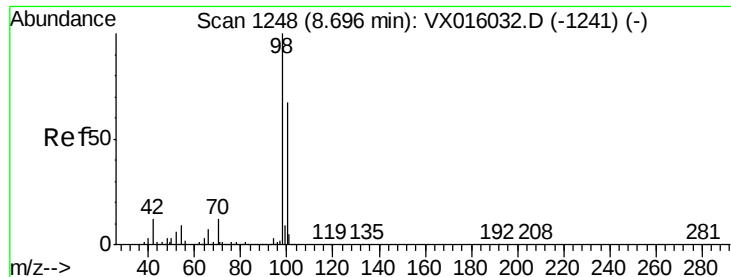
Abundance Ion 116.80 (116.50 to 117.50): VX016032.D (-755) (-)

Ion 118.80 (118.50 to 119.50): VX016032.D (-755) (-)

Ion 120.80 (120.50 to 121.50): VX016032.D (-755) (-)

Time-->

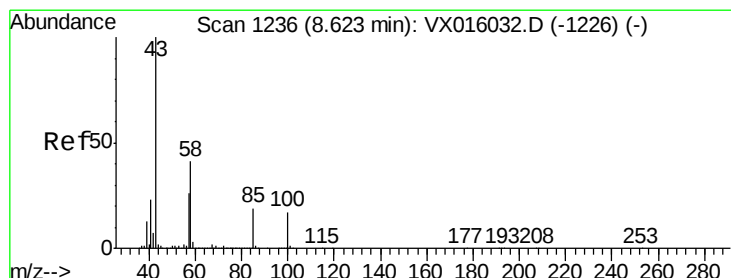
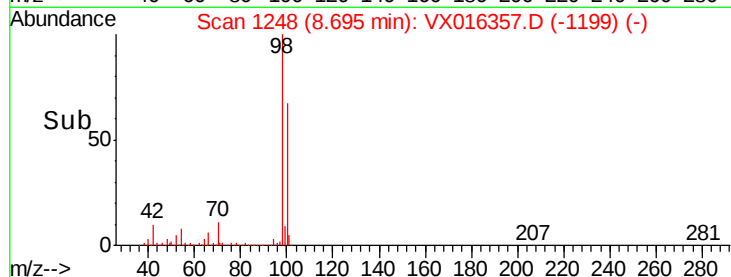
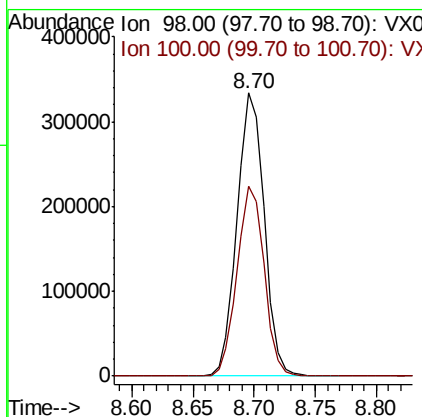
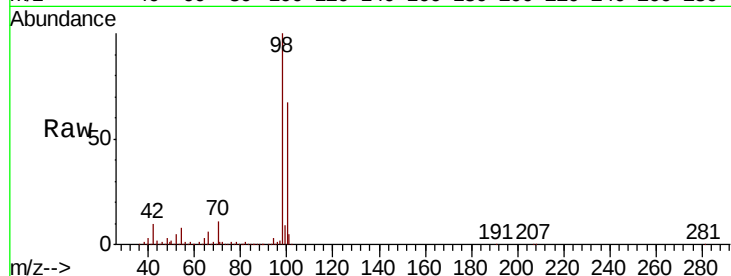




#50
Toluene-d8
Concen: 49.443 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX016357.D
Acq: 20 May 2020 14:06

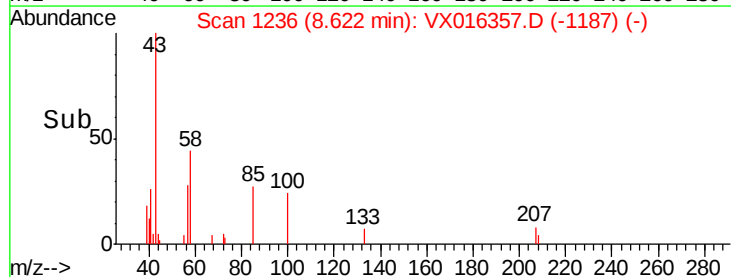
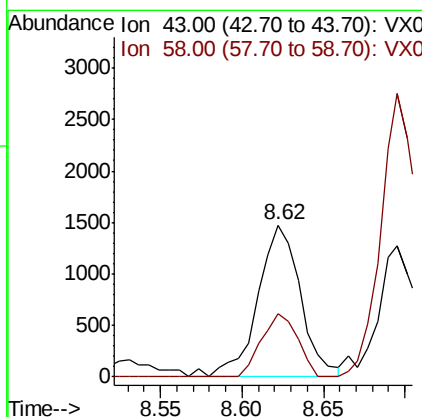
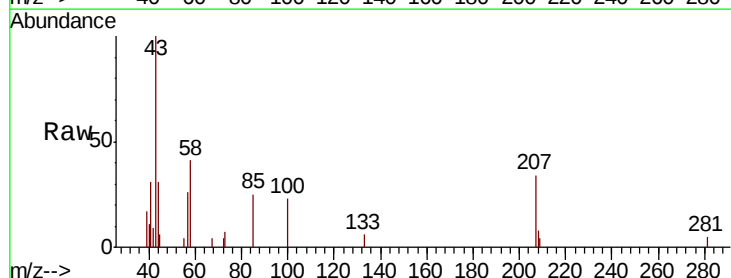
Instrument :
MSVOA_X
ClientSampleId :

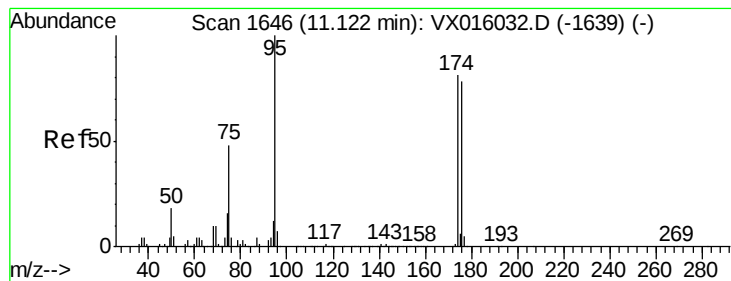
Tot Ion: 98 Resp: 514559
Ion Ratio Lower Upper
98 100
100 67.0 53.7 80.5



#51
4-Methyl-2-Pentanone
Concen: 0.568 ug/l
RT: 8.62 min Scan# 1236
Delta R.T. -0.00 min
Lab File: VX016357.D
Acq: 20 May 2020 14:06

Tgt Ion: 43 Resp: 2698
Ion Ratio Lower Upper
43 100
58 35.0 33.0 49.4





#62

4-Bromofluorobenzene

Concen: 51.518 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016357.D

Acq: 20 May 2020 14:06

Instrument :

MSVOA_X

ClientSampleId :

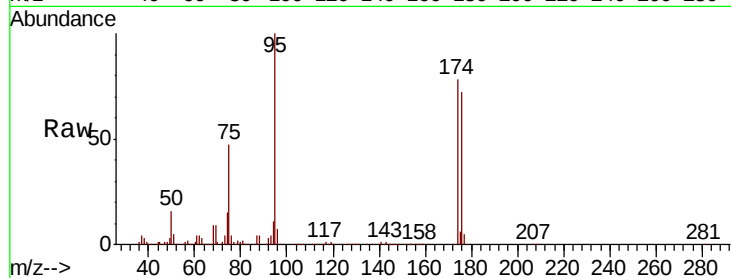
Tot Ion: 95 Resp: 203928

Ion Ratio Lower Upper

95 100

174 80.0 0.0 159.4

176 76.1 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX016357.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX016357.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX016357.D (-1597) (-)

11.12

200000

150000

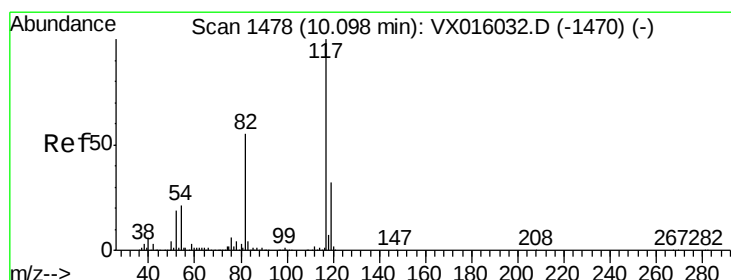
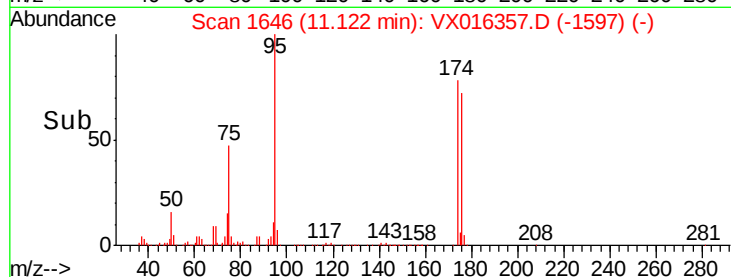
100000

50000

0

11.10 11.20

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016357.D

Acq: 20 May 2020 14:06

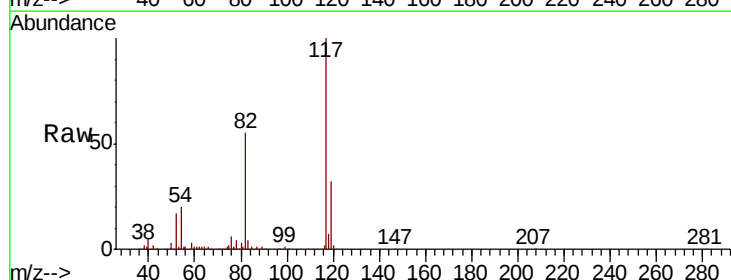
Tgt Ion: 117 Resp: 406106

Ion Ratio Lower Upper

117 100

82 54.9 44.4 66.6

119 31.8 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): VX016357.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX016357.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX016357.D (-1429) (-)

10.10

400000

300000

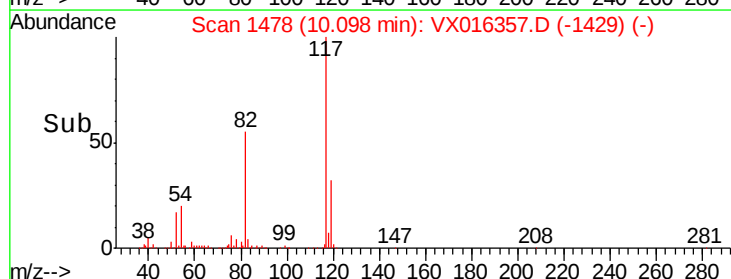
200000

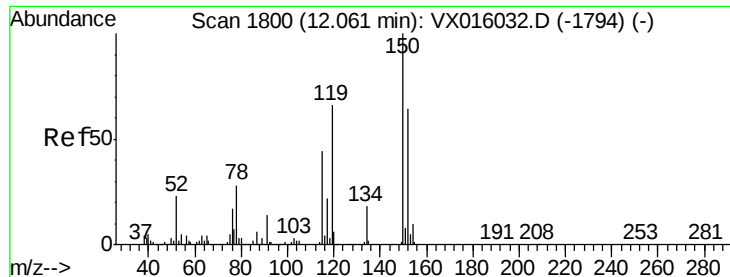
100000

0

10.00 10.20 10.30

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016357.D

Acq: 20 May 2020 14:06

Instrument :

MSVOA_X

ClientSampleId :

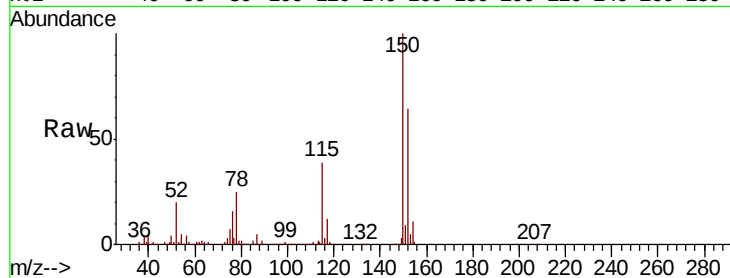
Tot Ion:152 Resp: 195679

Ion Ratio Lower Upper

152 100

115 60.3 41.3 124.1

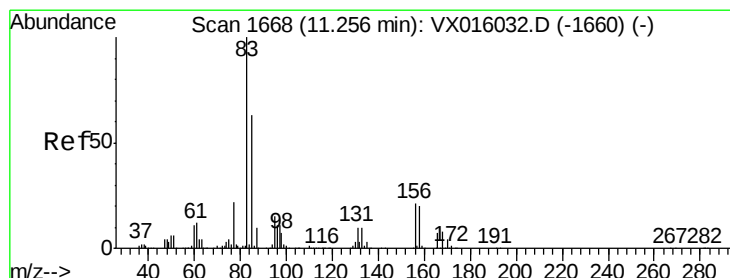
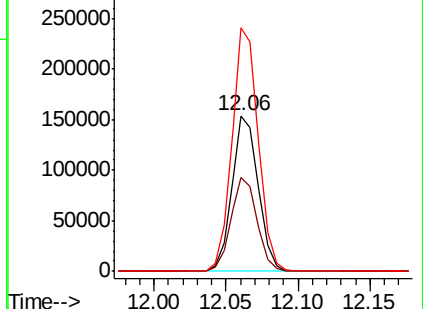
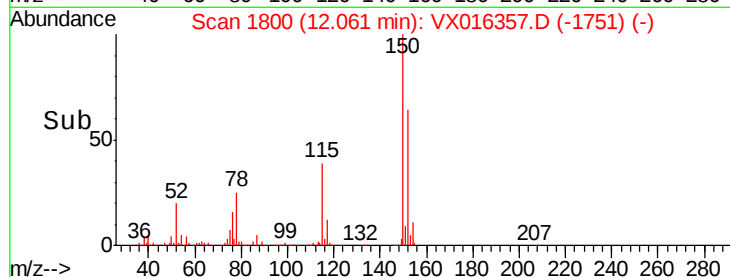
150 157.1 0.0 352.2



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



#75

1,1,2,2-Tetrachloroethane

Concen: 2.104 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.13 min

Lab File: VX016357.D

Acq: 20 May 2020 14:06

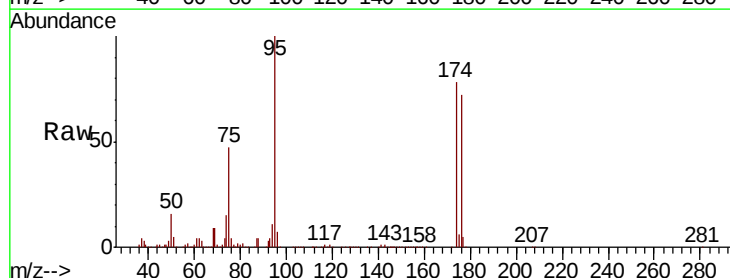
Tgt Ion: 83 Resp: 146

Ion Ratio Lower Upper

83 100

131 177.4 5.1 15.4#

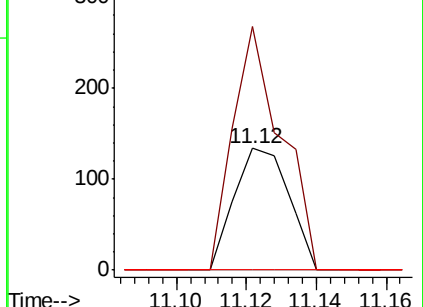
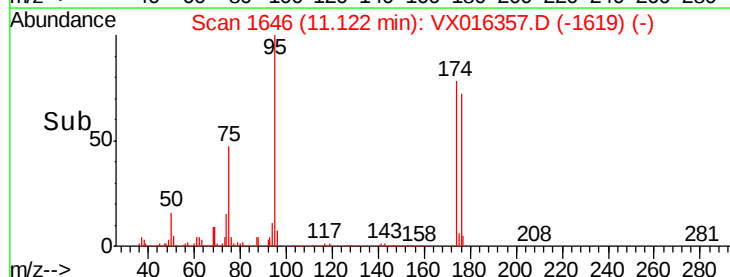
85 0.0 32.0 96.0#

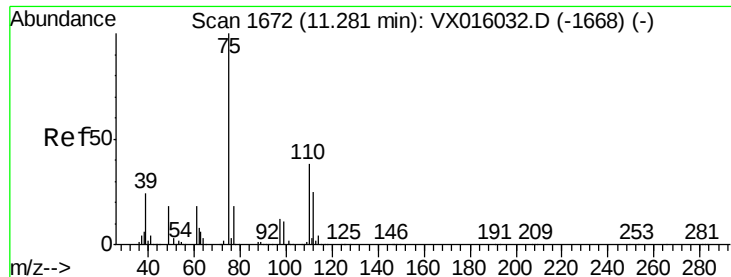


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0





#76

1,2,3-Trichloropropane

Concen: 21.741 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016357.D

Acq: 20 May 2020 14:06

Instrument :

MSVOA_X

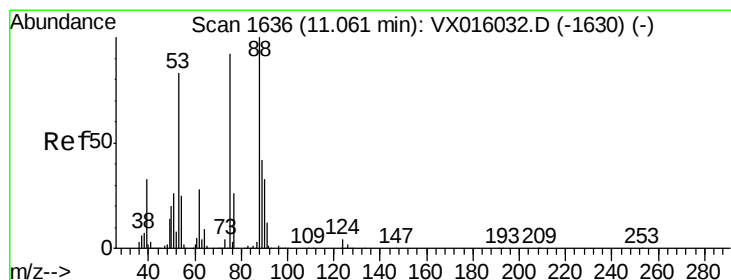
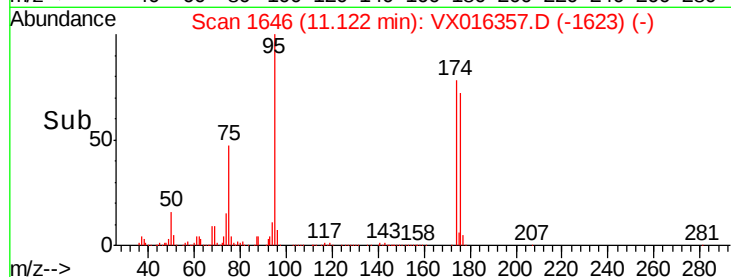
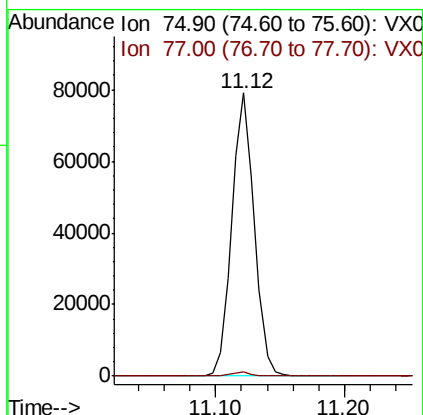
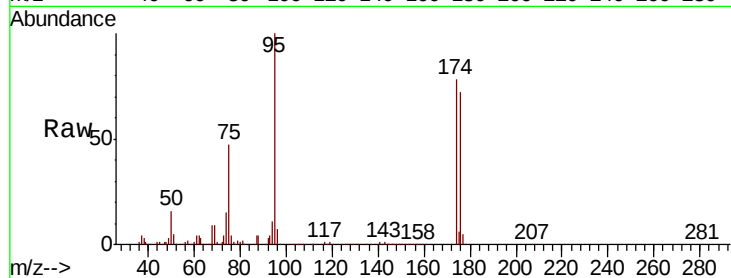
ClientSampled :

Tot Ion: 75 Resp: 96537

Ion Ratio Lower Upper

75 100

77 1.3 21.2 63.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 51.809 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016357.D

Acq: 20 May 2020 14:06

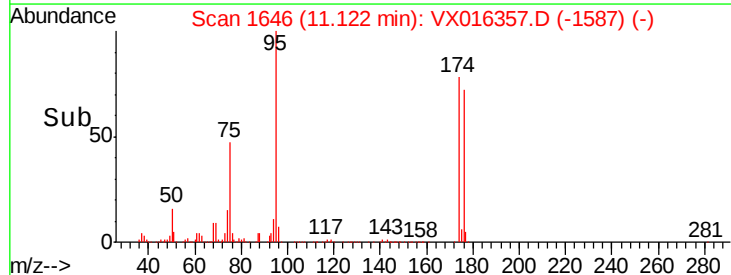
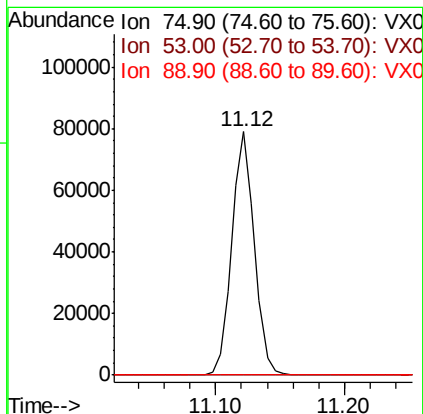
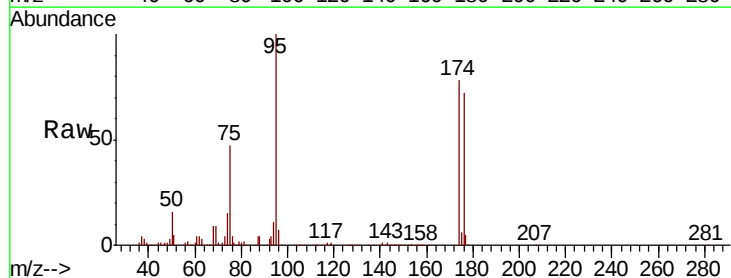
Tgt Ion: 75 Resp: 96537

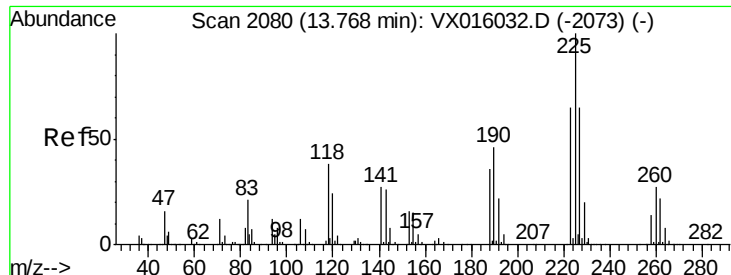
Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

89 0.0 36.7 55.1#





#94

Hexachlorobutadiene

Concen: 0.573 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX016357.D

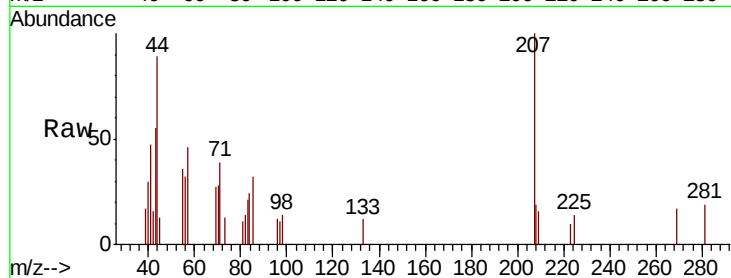
Acq: 20 May 2020 14:06

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:	225	Resp:	102
Ion	Ratio	Lower	Upper
225	100		
223	50.0	32.3	96.9
227	0.0	31.8	95.4



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

