

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061220\
 Data File : VX016737.D
 Acq On : 12 Jun 2020 18:34
 Operator : JC/SP
 Sample : L2971-01 100X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 13 04:33:02 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	5.63	168	216238	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	341362	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	350951	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	184425	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	130820	48.72	ug/l	0.00
Spiked Amount			Recovery	=	97.44%	
35) Dibromofluoromethane	5.46	113	110899	52.76	ug/l	0.00
Spiked Amount			Recovery	=	105.52%	
50) Toluene-d8	8.70	98	423196	51.73	ug/l	0.00
Spiked Amount			Recovery	=	103.46%	
62) 4-Bromofluorobenzene	11.12	95	167656	53.04	ug/l	0.00
Spiked Amount			Recovery	=	106.08%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.01	59	1079	1.567	ug/l #	86
13) Acrolein	2.28	56	478	1.632	ug/l #	33
16) Acetone	2.42	43	4359	3.705	ug/l	92
20) Methylene Chloride	2.83	84	761	0.313	ug/l #	94
25) 2-Butanone	4.65	43	779	0.391	ug/l #	72
26) 2,2-Dichloropropane	4.65	77	784	0.231	ug/l #	53
31) Cyclohexane	5.63	56	3719	0.996	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	14867	4.600	ug/l #	47
38) Carbon Tetrachloride	5.64	117	20413	6.010	ug/l #	15
76) 1,2,3-Trichloropropane	11.32	75	11996	2.959	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	80848	49.059	ug/l #	14

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.00 min

Lab File: VX016737.D

Acq: 12 Jun 2020 18:34

Instrument :

MSVOA_X

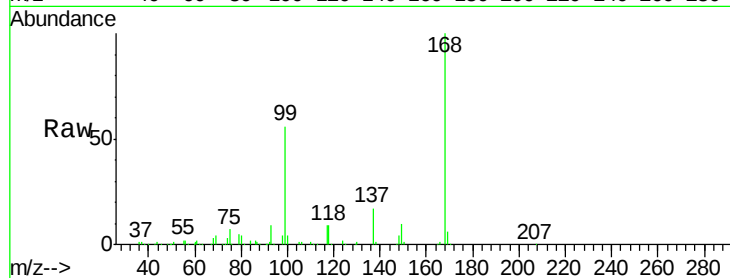
ClientSampleId :

Tot Ion:168 Resp: 216238

Ion Ratio Lower Upper

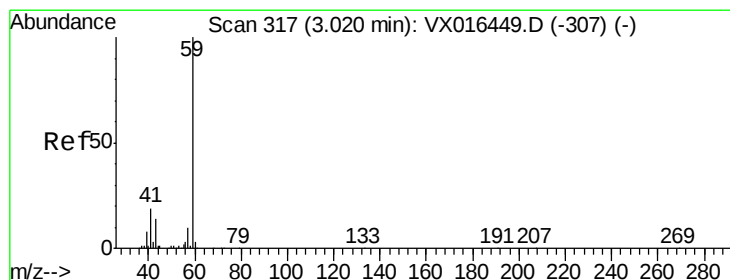
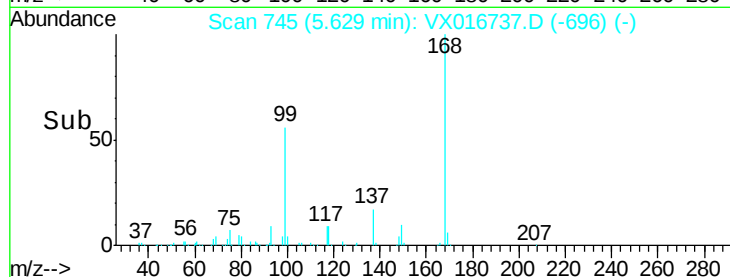
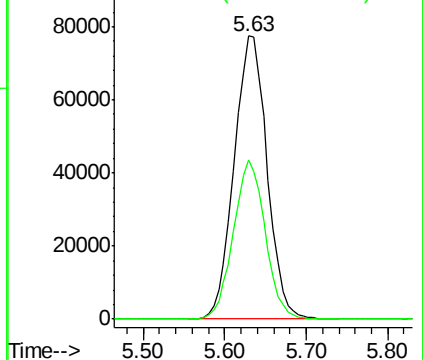
168 100

99 56.2 45.2 67.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#11

Tert butyl alcohol

Concen: 1.567 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX016737.D

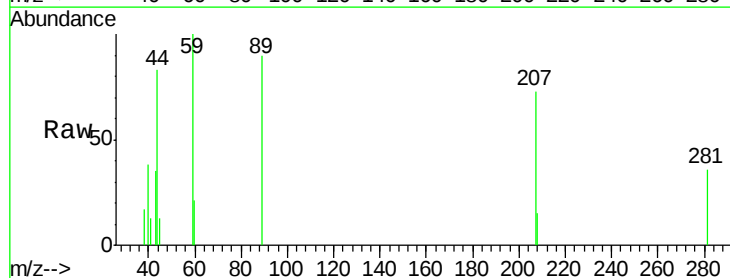
Acq: 12 Jun 2020 18:34

Tgt Ion: 59 Resp: 1079

Ion Ratio Lower Upper

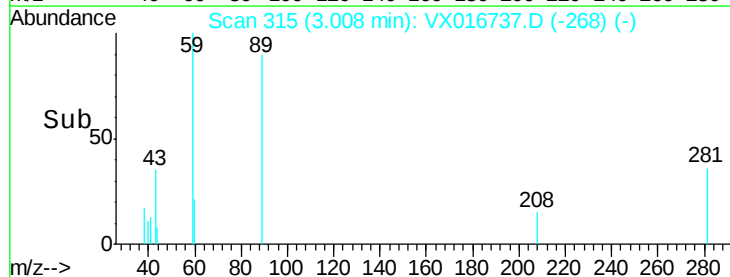
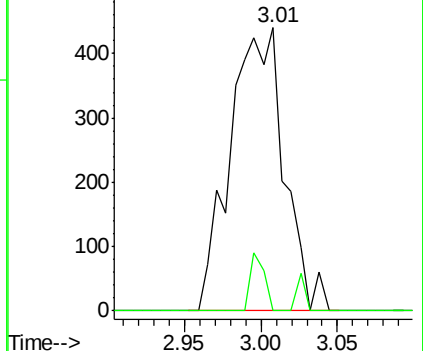
59 100

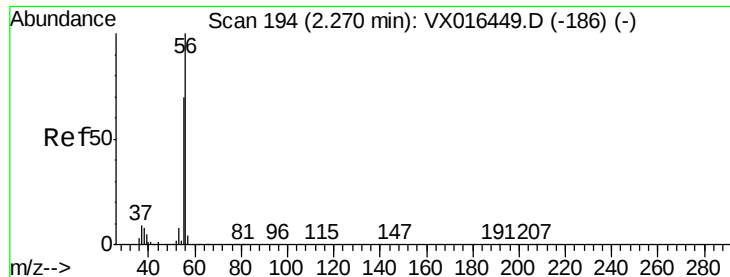
57 5.2 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.632 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX016737.D

Acq: 12 Jun 2020 18:34

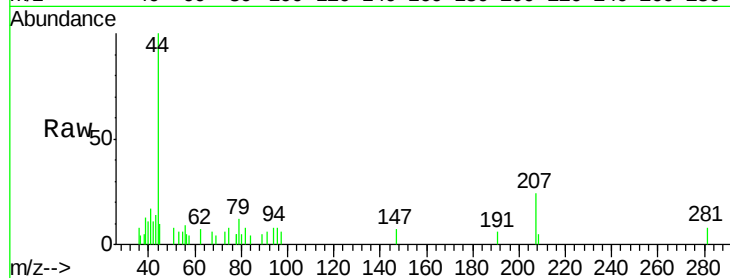
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 478

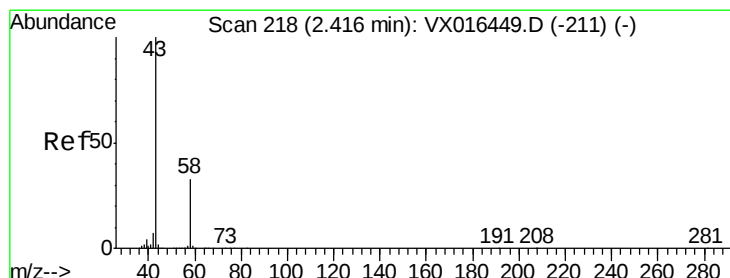
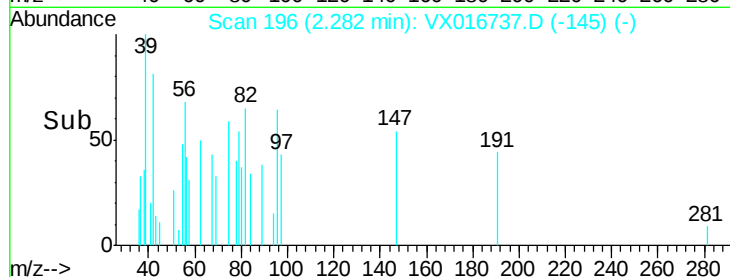
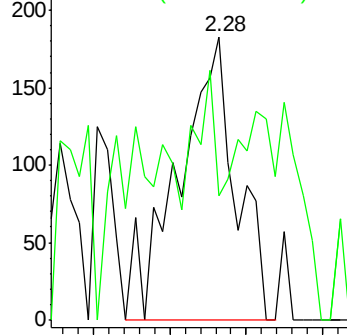
Ion Ratio Lower Upper

56 100

55 16.5 58.3 87.5#



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



#16

Acetone

Concen: 3.705 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX016737.D

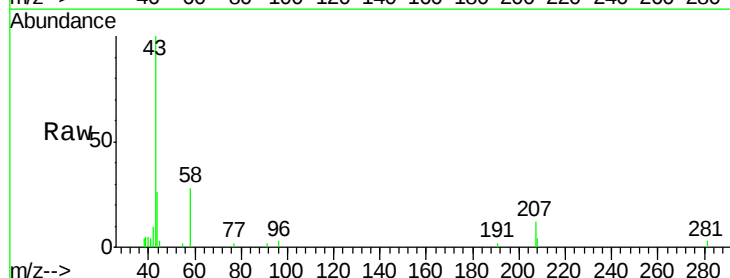
Acq: 12 Jun 2020 18:34

Tgt Ion: 43 Resp: 4359

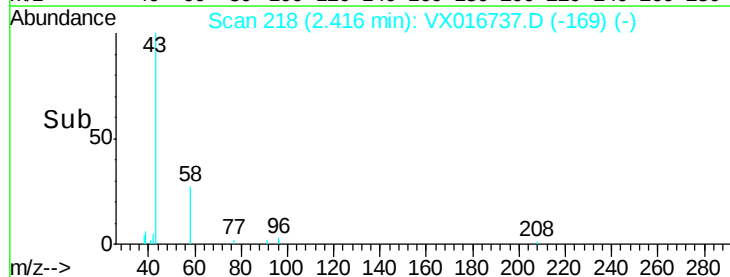
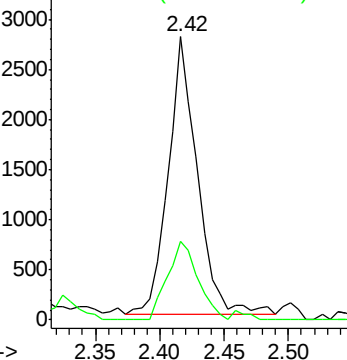
Ion Ratio Lower Upper

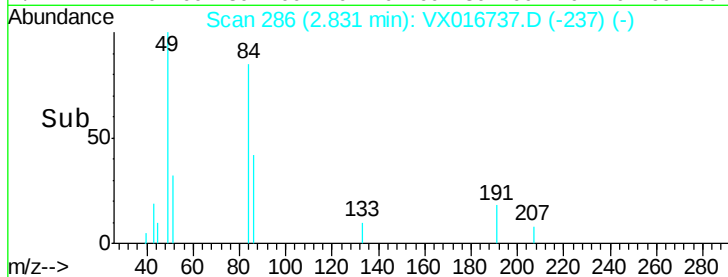
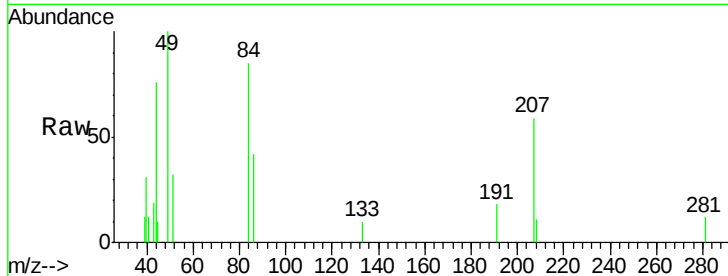
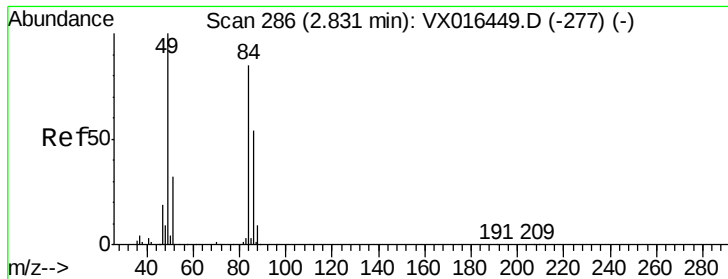
43 100

58 28.2 26.1 39.1



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

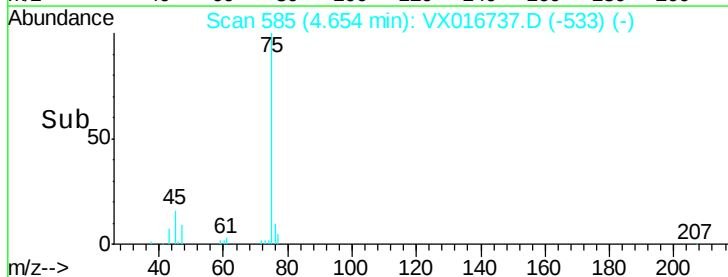
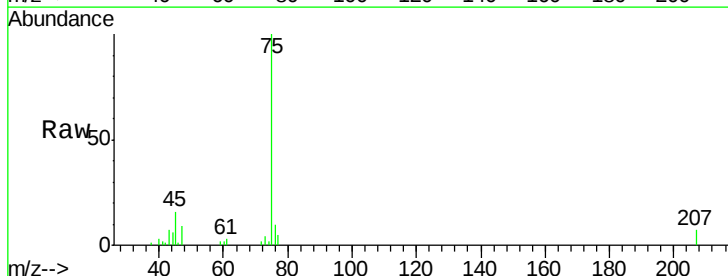
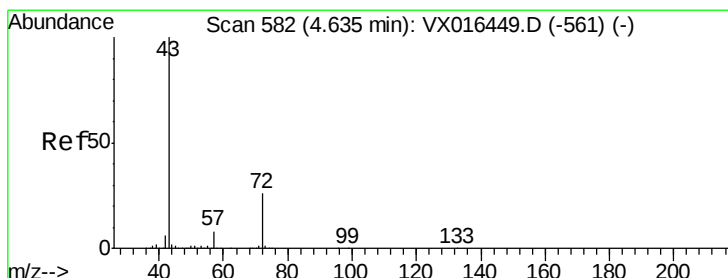
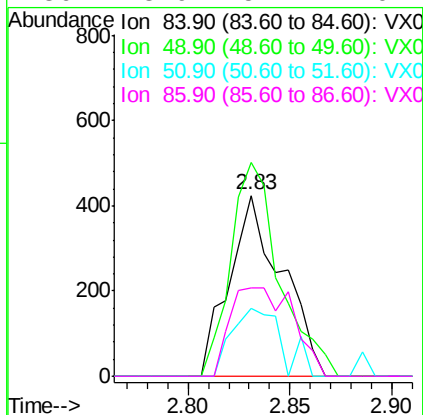




#20
Methvlene Chloride
Concen: 0.313 ug/l
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX016737.D
Acq: 12 Jun 2020 18:34

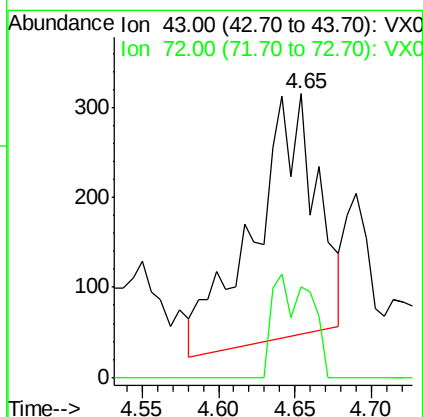
Instrument :
MSVOA_X
ClientSampleId :

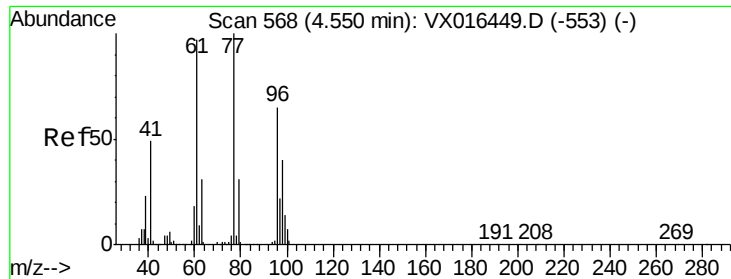
Tot Ion:	84	Resp:	761
Ion	Ratio	Lower	Upper
84	100		
49	117.9	94.5	141.7
51	37.6	30.2	45.4
86	48.9	51.1	76.7#



#25
2-Butanone
Concen: 0.391 ug/l
RT: 4.65 min Scan# 585
Delta R.T. 0.02 min
Lab File: VX016737.D
Acq: 12 Jun 2020 18:34

Tgt Ion:	43	Resp:	779
Ion	Ratio	Lower	Upper
43	100		
72	40.4	21.0	31.6#





#26

2,2-Dichloropropane

Concen: 0.231 ug/l

RT: 4.65 min Scan# 585

Delta R.T. 0.10 min

Lab File: VX016737.D

Acq: 12 Jun 2020 18:34

Instrument :

MSVOA_X

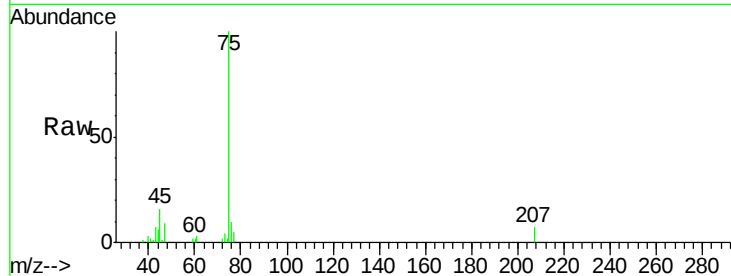
ClientSampled :

Tot Ion: 77 Resp: 784

Ion Ratio Lower Upper

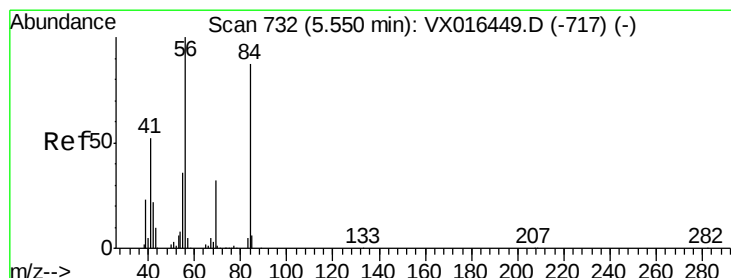
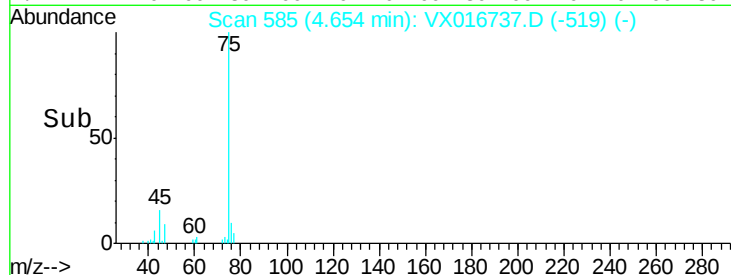
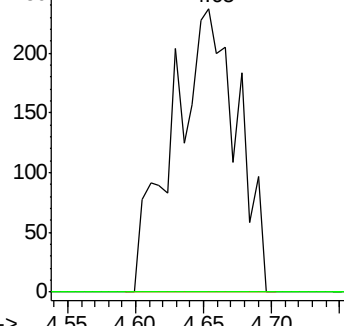
77 100

97 0.0 11.5 34.4#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0



#31

Cyclohexane

Concen: 0.996 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.08 min

Lab File: VX016737.D

Acq: 12 Jun 2020 18:34

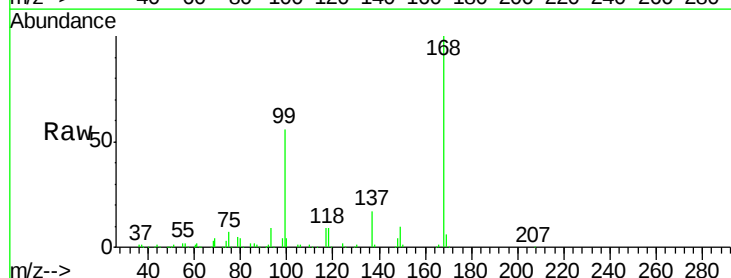
Tgt Ion: 56 Resp: 3719

Ion Ratio Lower Upper

56 100

69 214.5 25.7 38.5#

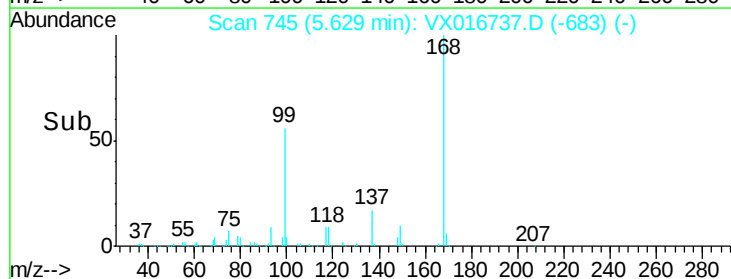
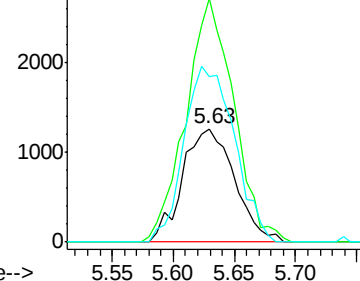
84 146.1 70.0 105.0#

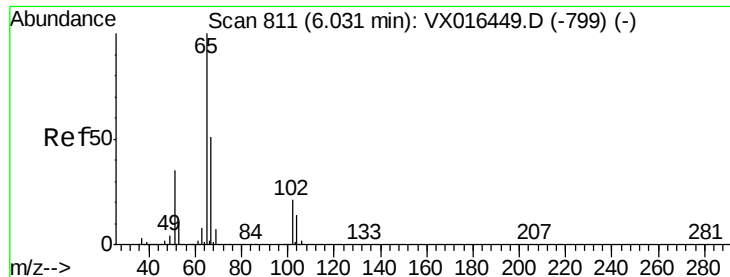


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 48.715 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX016737.D

Acq: 12 Jun 2020 18:34

Instrument :

MSVOA_X

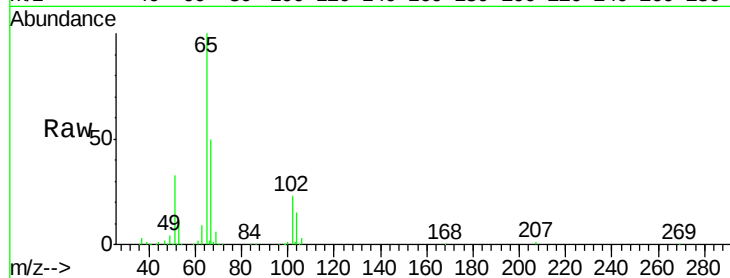
ClientSampled :

Tot Ion: 65 Resp: 130820

Ion Ratio Lower Upper

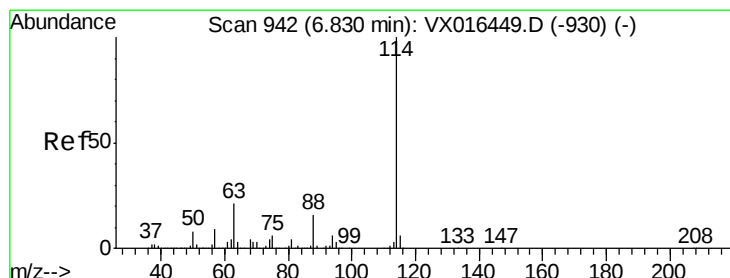
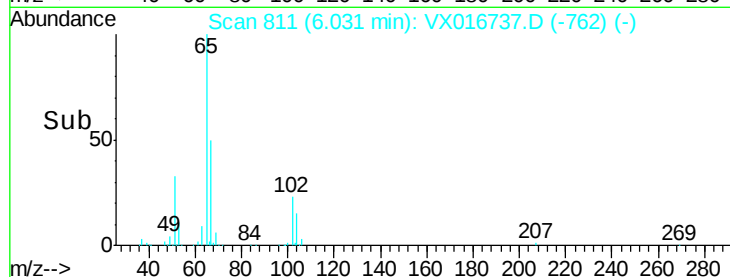
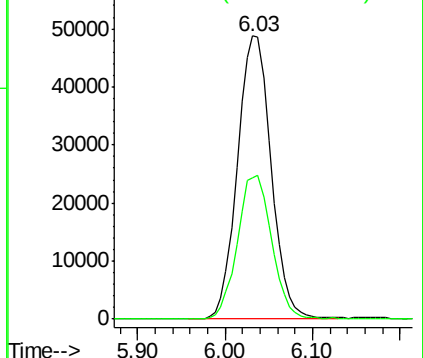
65 100

67 51.5 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: VX016737.D

Acq: 12 Jun 2020 18:34

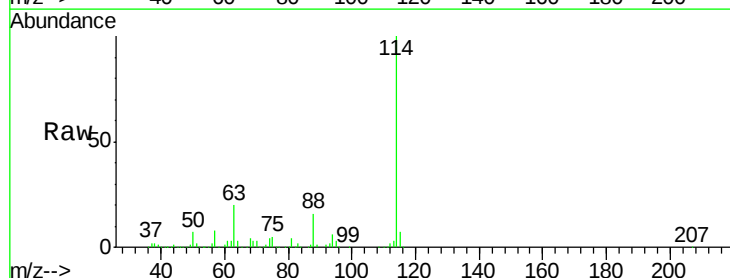
Tgt Ion: 114 Resp: 341362

Ion Ratio Lower Upper

114 100

63 19.7 0.0 42.6

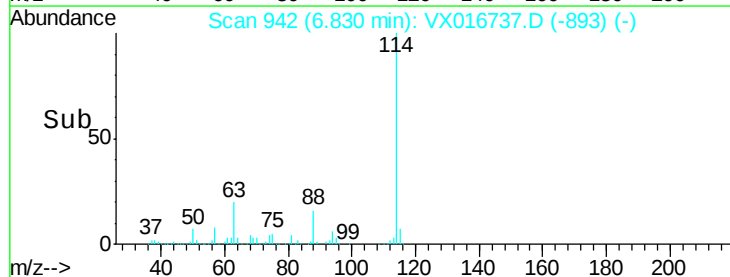
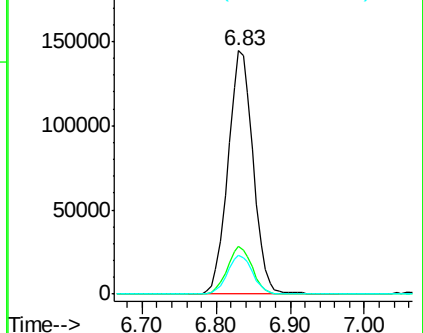
88 16.0 0.0 32.8

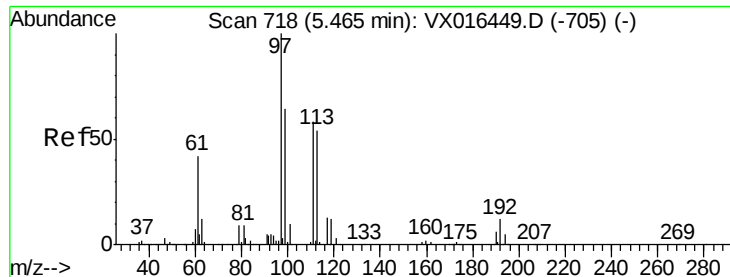


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 52.761 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.00 min

Lab File: VX016737.D

Acq: 12 Jun 2020 18:34

Instrument :
MSVOA_X
ClientSampleId :

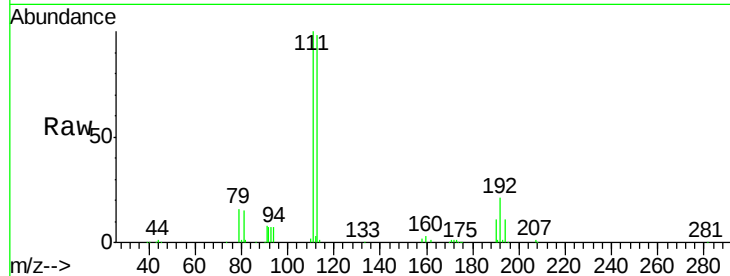
Tot Ion:113 Resp: 110899

Ion Ratio Lower Upper

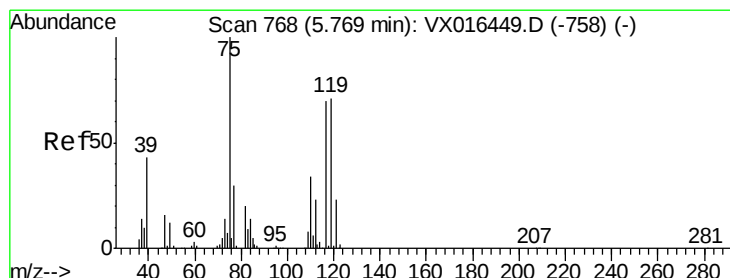
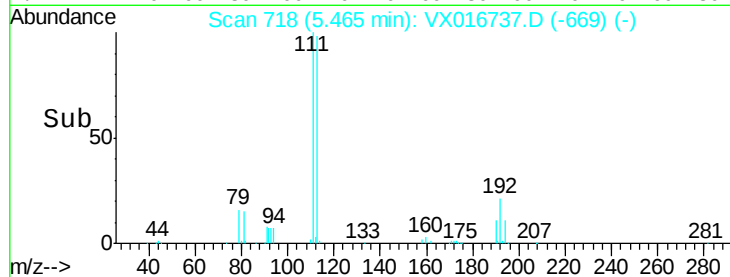
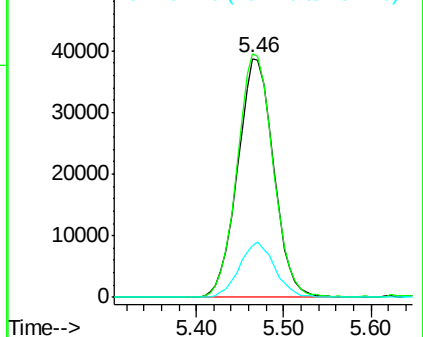
113 100

111 102.1 83.0 124.6

192 22.8 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



#36

1,1-Dichloropropene

Concen: 4.600 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016737.D

Acq: 12 Jun 2020 18:34

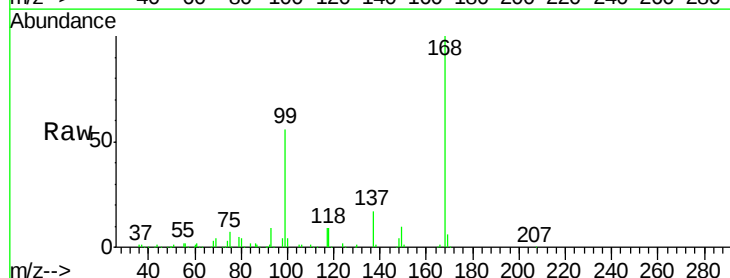
Tgt Ion: 75 Resp: 14867

Ion Ratio Lower Upper

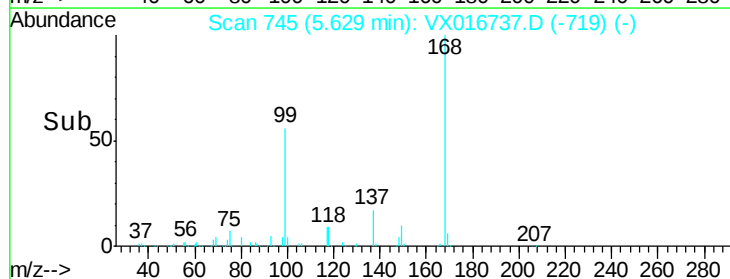
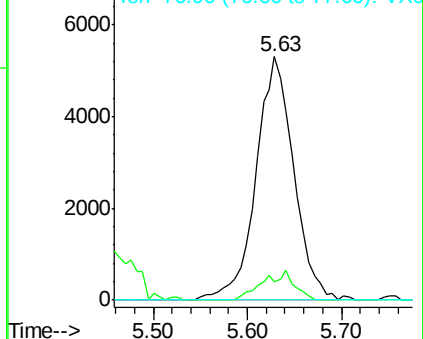
75 100

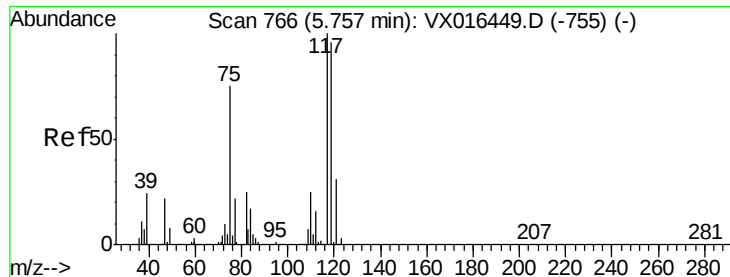
110 5.3 17.4 52.3#

77 0.0 24.2 36.4#



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

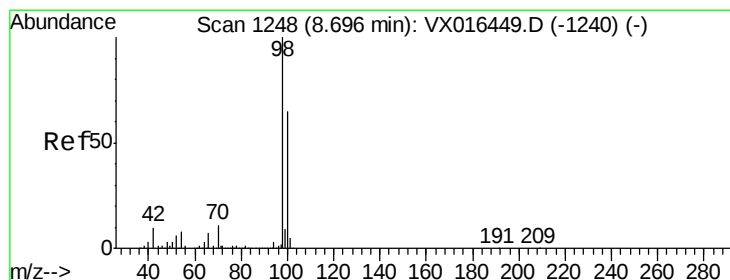
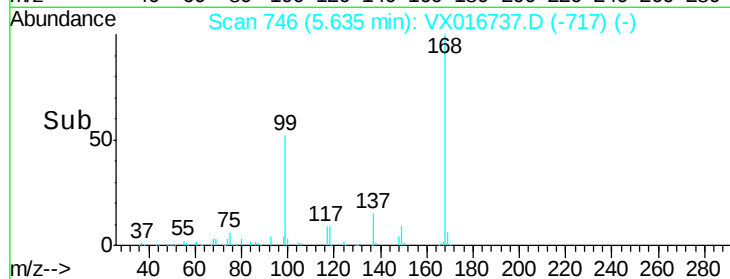
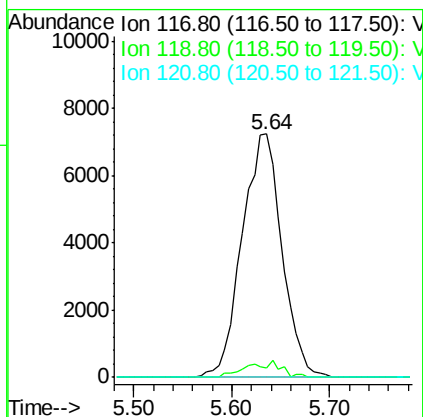
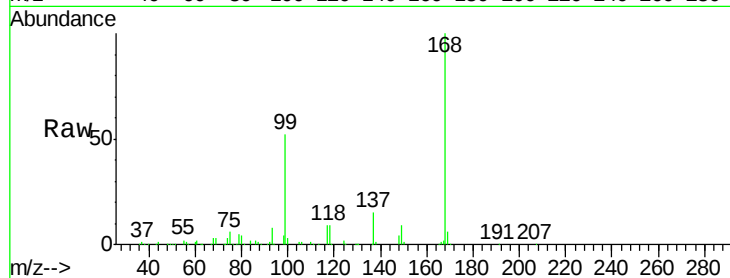




#38
Carbon Tetrachloride
Concen: 6.010 ug/l
RT: 5.64 min Scan# 746
Delta R.T. -0.12 min
Lab File: VX016737.D
Acq: 12 Jun 2020 18:34

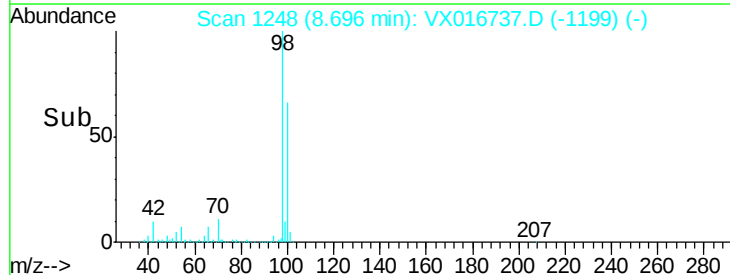
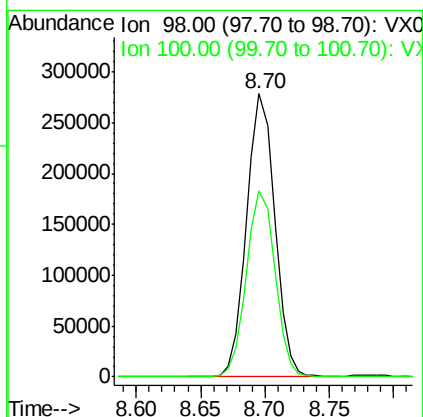
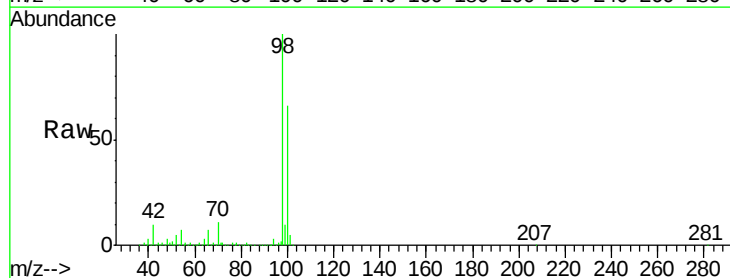
Instrument :
MSVOA_X
ClientSampleId :

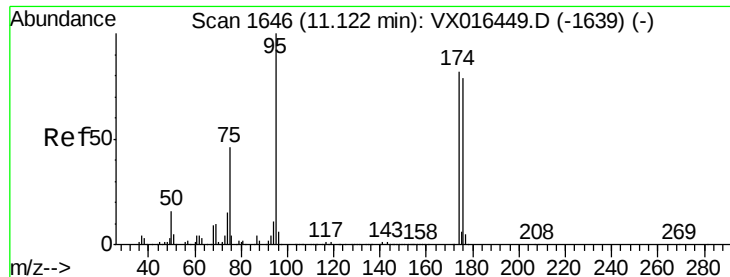
Tot Ion:117 Resp: 20413
Ion Ratio Lower Upper
117 100
119 4.0 76.3 114.5#
121 0.0 24.6 37.0#



#50
Toluene-d8
Concen: 51.728 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX016737.D
Acq: 12 Jun 2020 18:34

Tgt Ion: 98 Resp: 423196
Ion Ratio Lower Upper
98 100
100 66.6 53.8 80.6





#62

4-Bromofluorobenzene

Concen: 53.036 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX016737.D

Acq: 12 Jun 2020 18:34

Instrument :

MSVOA_X

ClientSampleId :

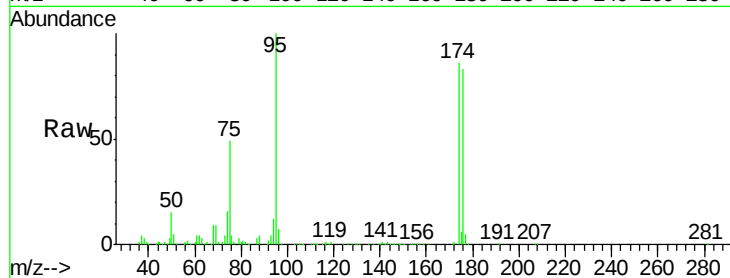
Tot Ion: 95 Resp: 167656

Ion Ratio Lower Upper

95 100

174 87.8 0.0 163.0

176 83.2 0.0 156.8

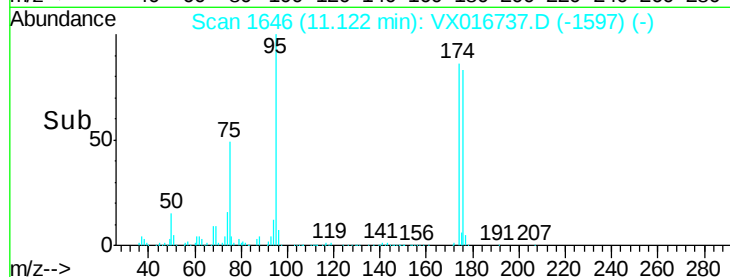


Abundance Ion 94.90 (94.60 to 95.60): VX016449.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX016449.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX016449.D (-1639) (-)

Time-->

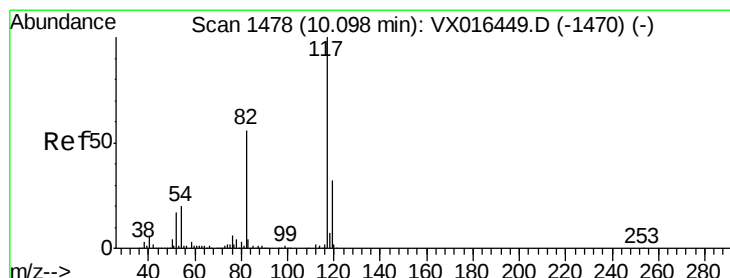


Abundance Ion 94.90 (94.60 to 95.60): VX016737.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX016737.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX016737.D (-1597) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX016737.D

Acq: 12 Jun 2020 18:34

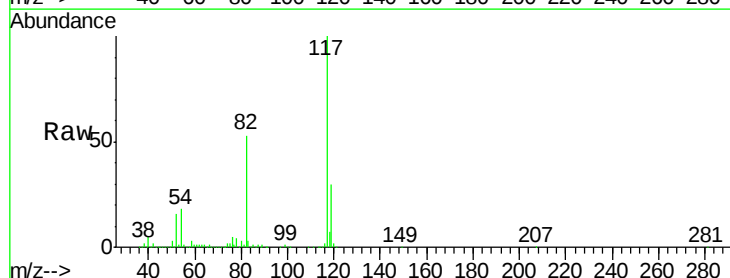
Tgt Ion: 117 Resp: 350951

Ion Ratio Lower Upper

117 100

82 53.0 45.0 67.6

119 30.2 25.8 38.8

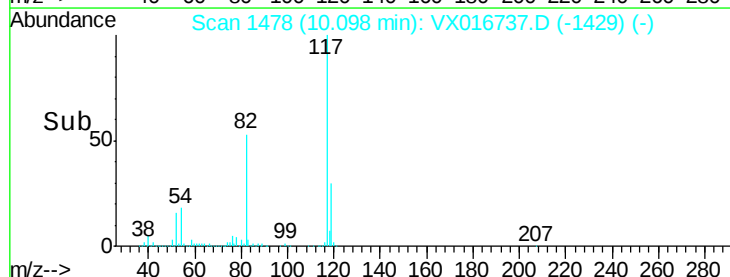


Abundance Ion 116.90 (116.60 to 117.60): VX016449.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX016449.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX016449.D (-1470) (-)

Time-->

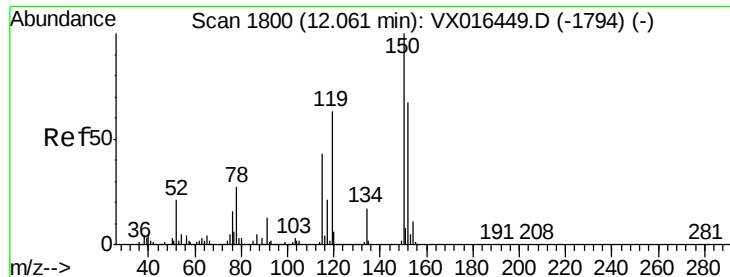


Abundance Ion 116.90 (116.60 to 117.60): VX016737.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX016737.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX016737.D (-1429) (-)

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: VX016737.D

Acq: 12 Jun 2020 18:34

Instrument :

MSVOA_X

ClientSampleId :

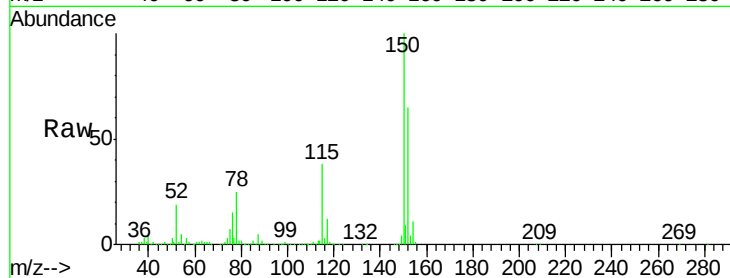
Tot Ion:152 Resp: 184425

Ion Ratio Lower Upper

152 100

115 57.5 39.9 119.6

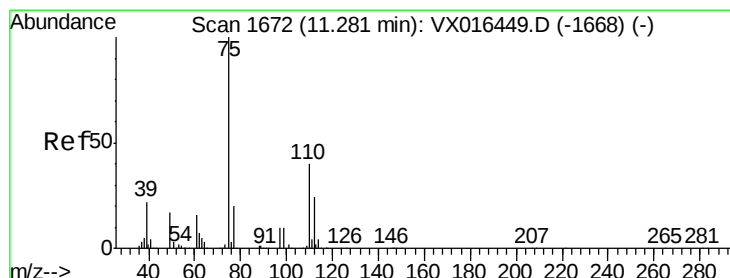
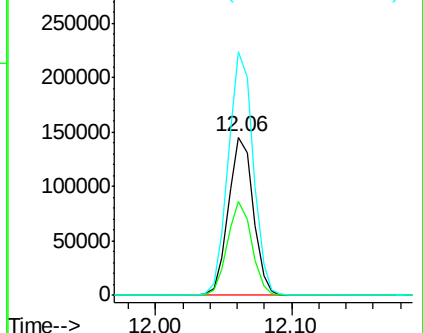
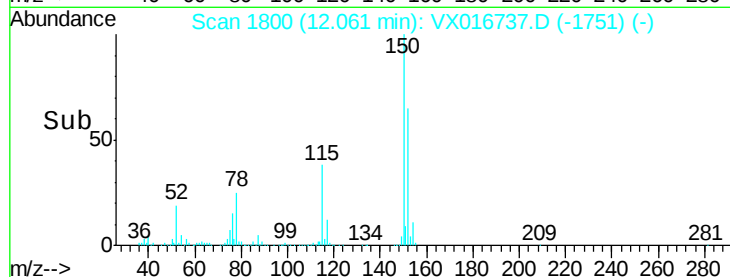
150 154.9 0.0 341.0



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: 2.959 ug/l

RT: 11.32 min Scan# 1679

Delta R.T. 0.04 min

Lab File: VX016737.D

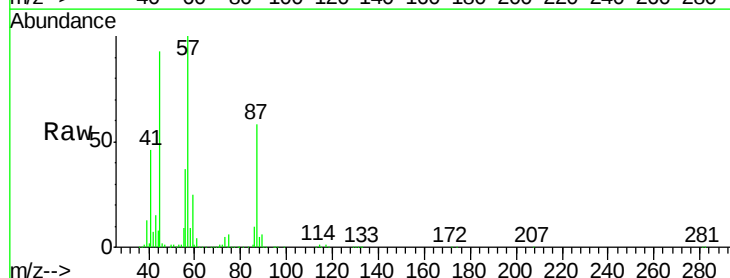
Acq: 12 Jun 2020 18:34

Tgt Ion: 75 Resp: 11996

Ion Ratio Lower Upper

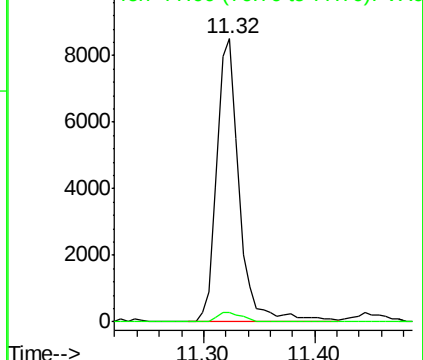
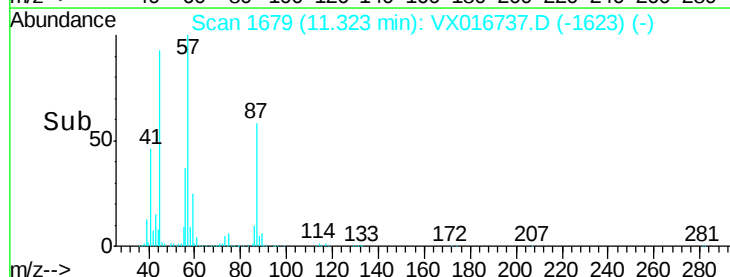
75 100

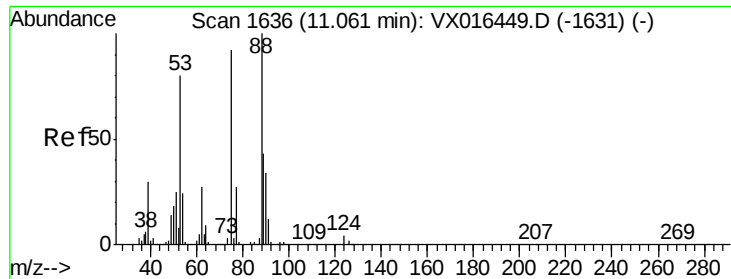
77 3.4 21.3 63.7#



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: 49.059 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.06 min
 Lab File: VX016737.D
 Acq: 12 Jun 2020 18:34

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 80848
 Ion Ratio Lower Upper
 75 100
 53 0.0 71.3 106.9#
 89 0.0 36.6 55.0#

