

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060320\
 Data File : VX016565.D
 Acq On : 03 Jun 2020 14:49
 Operator : JC/SP
 Sample : L2867-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 04 08:24:23 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	252462	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	410410	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	409087	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	206499	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	150112	47.88	ug/l	0.00
Spiked Amount			Recovery	=	95.76%	
35) Dibromofluoromethane	5.47	113	121951	48.26	ug/l	0.00
Spiked Amount			Recovery	=	96.52%	
50) Toluene-d8	8.70	98	506180	51.46	ug/l	0.00
Spiked Amount			Recovery	=	102.92%	
62) 4-Bromofluorobenzene	11.12	95	202977	53.41	ug/l	0.00
Spiked Amount			Recovery	=	106.82%	

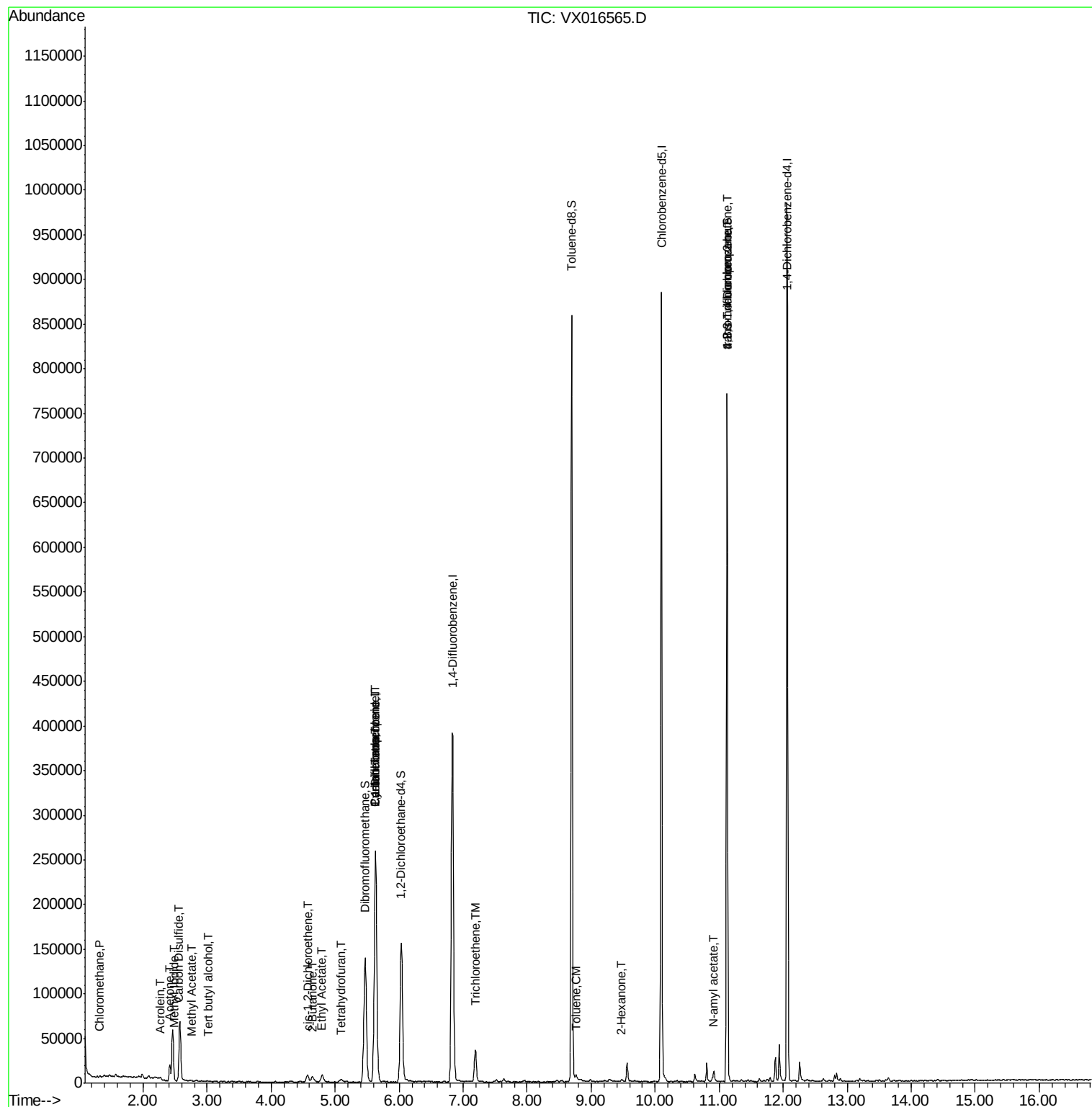
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	788	0.262	ug/l	97
10) Methyl Iodide	2.49	142	46	3.071	ug/l #	40
11) Tert butyl alcohol	3.01	59	652	0.811	ug/l #	80
13) Acrolein	2.28	56	553	1.617	ug/l #	13
16) Acetone	2.42	43	20088	14.624	ug/l	92
17) Carbon Disulfide	2.56	76	8168	1.132	ug/l #	94
18) Methyl Acetate	2.75	43	1081	0.307	ug/l #	89
25) 2-Butanone	4.64	43	5584	2.399	ug/l	96
27) cis-1,2-Dichloroethene	4.57	96	5458	1.756	ug/l	83
29) Tetrahydrofuran	5.09	42	312	0.207	ug/l #	32
31) Cyclohexane	5.63	56	4589	1.053	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	17698	4.555	ug/l #	52
37) Ethyl Acetate	4.79	43	13854	2.970	ug/l	98
38) Carbon Tetrachloride	5.63	117	24062	5.892	ug/l #	17
44) Trichloroethene	7.19	130	13684	3.727	ug/l	83
52) Toluene	8.77	92	1741	0.239	ug/l	88
59) 2-Hexanone	9.48	43	1644	0.467	ug/l	94
74) N-amyl acetate	10.92	43	2117	0.322	ug/l #	12
76) 1,2,3-Trichloropropane	11.12	75	98364	21.671	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	98364	53.308	ug/l #	14

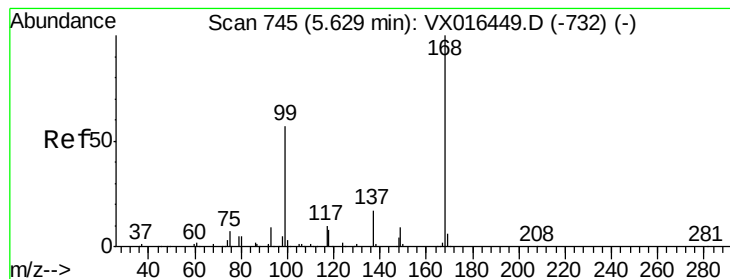
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX016565.D

Acq: 03 Jun 2020 14:49

Instrument :

MSVOA_X

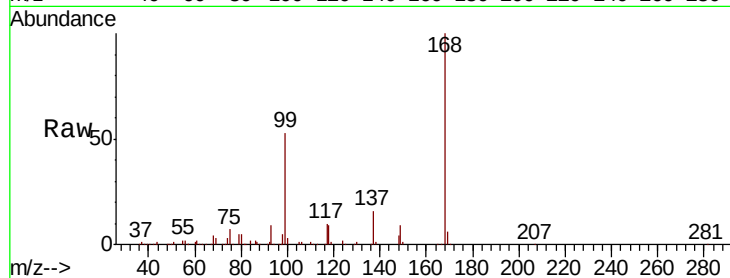
ClientSampled :

Tot Ion:168 Resp: 252462

Ion Ratio Lower Upper

168 100

99 53.5 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

80000

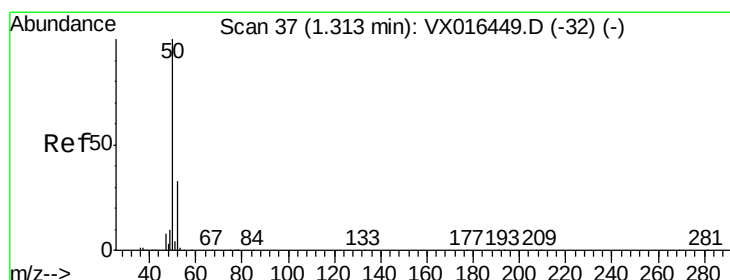
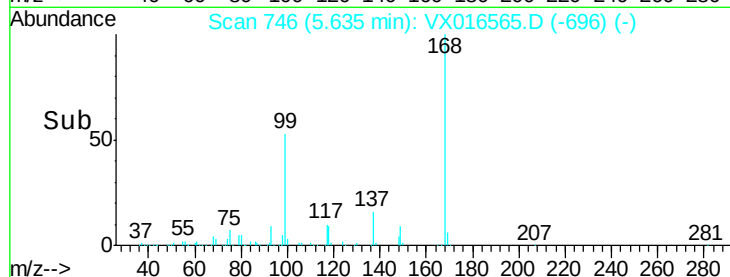
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.262 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX016565.D

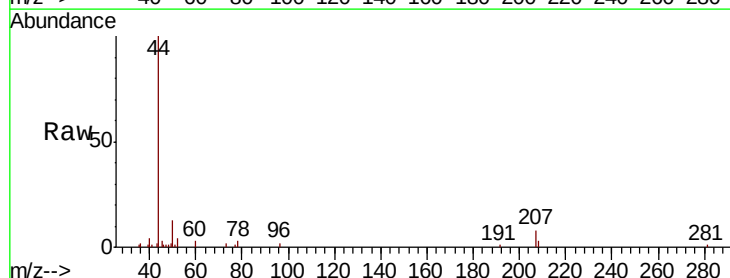
Acq: 03 Jun 2020 14:49

Tgt Ion: 50 Resp: 788

Ion Ratio Lower Upper

50 100

52 31.1 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

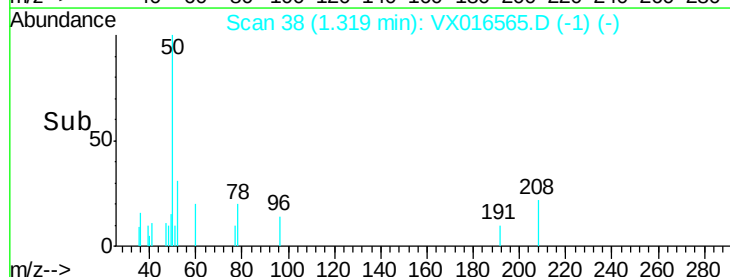
600

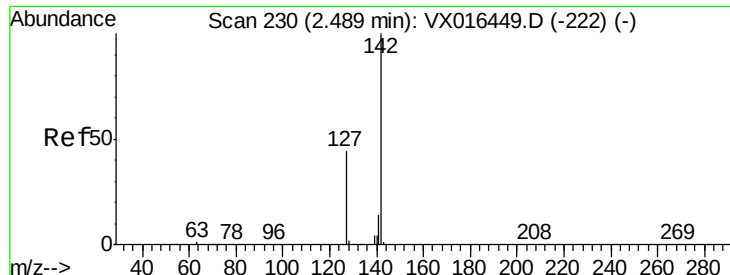
400

200

0

Time-->

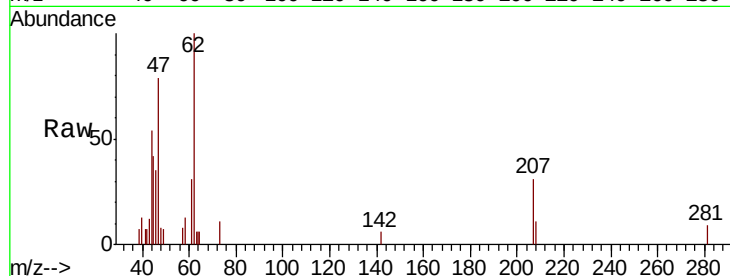




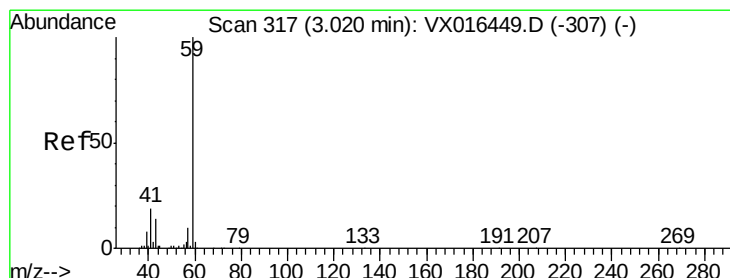
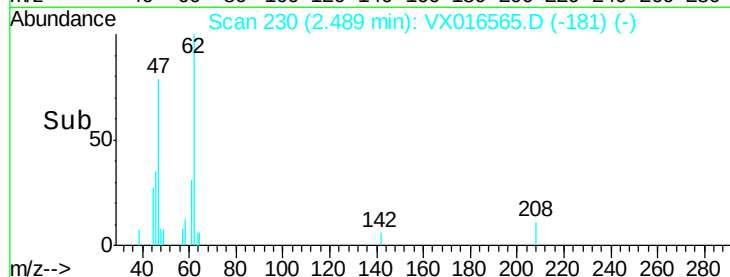
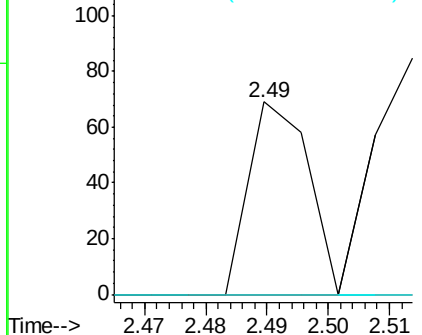
#10
Methvl Iodide
Concen: 3.071 ug/l
RT: 2.49 min Scan# 230
Delta R.T. 0.00 min
Lab File: VX016565.D
Acq: 03 Jun 2020 14:49

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:142 Resp: 46
Ion Ratio Lower Upper
142 100
127 0.0 35.3 52.9#
141 0.0 11.4 17.2#

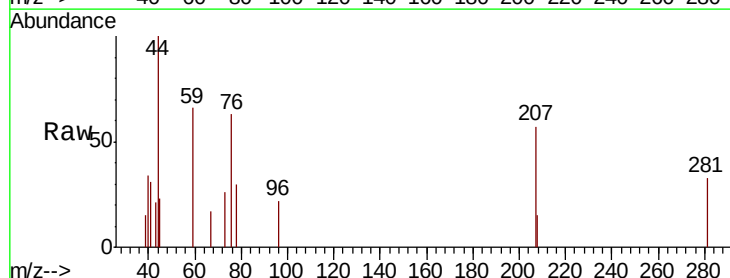


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

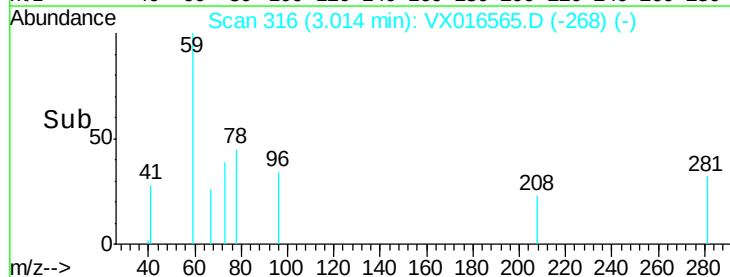
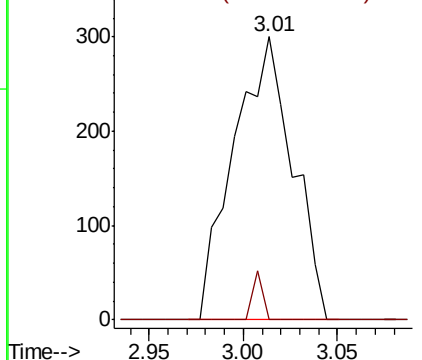


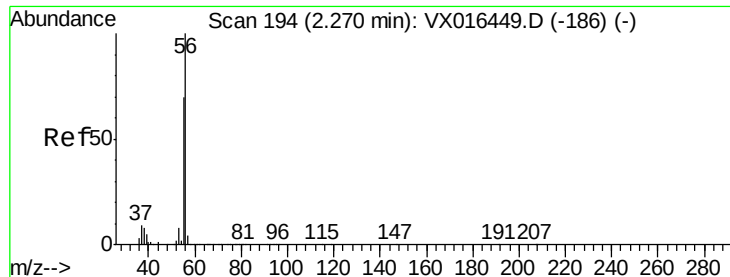
#11
Tert butyl alcohol
Concen: 0.811 ug/l
RT: 3.01 min Scan# 316
Delta R.T. -0.01 min
Lab File: VX016565.D
Acq: 03 Jun 2020 14:49

Tgt Ion: 59 Resp: 652
Ion Ratio Lower Upper
59 100
57 2.9 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0

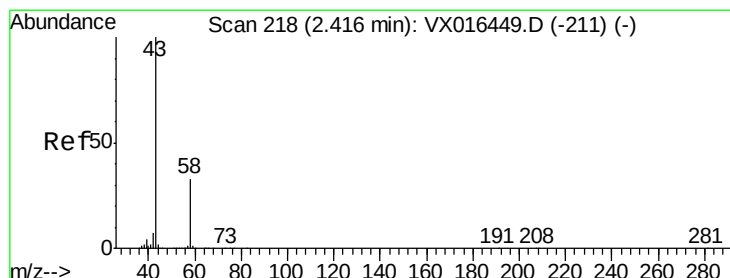
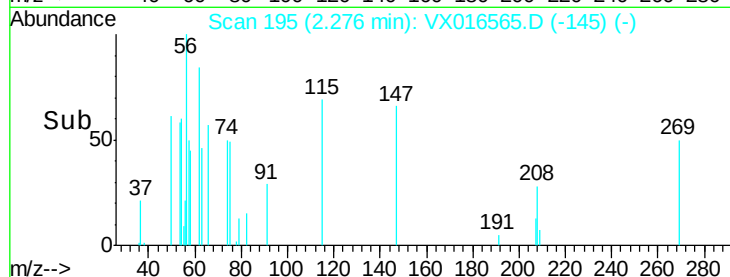
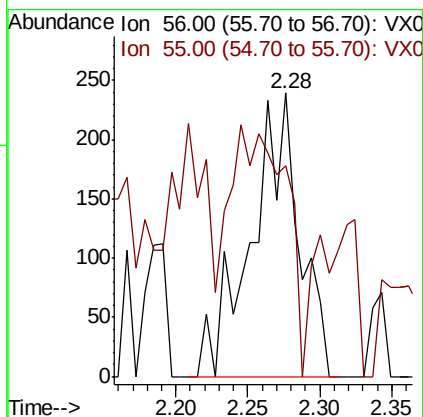
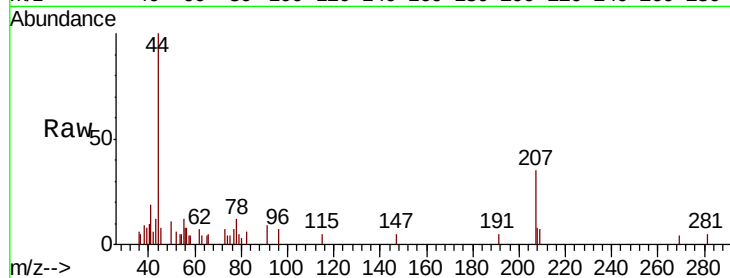




#13
Acrolein
Concen: 1.617 ug/l
RT: 2.28 min Scan# 195
Delta R.T. 0.01 min
Lab File: VX016565.D
Acq: 03 Jun 2020 14:49

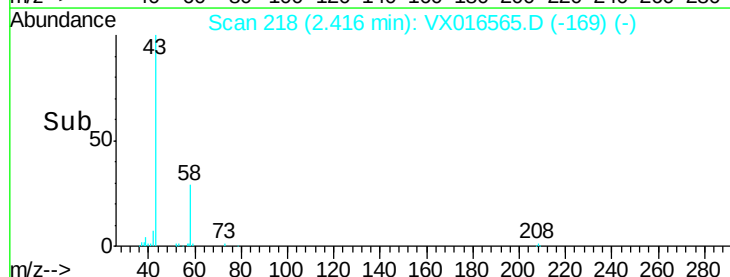
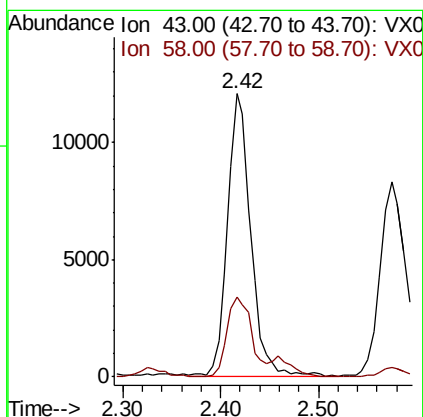
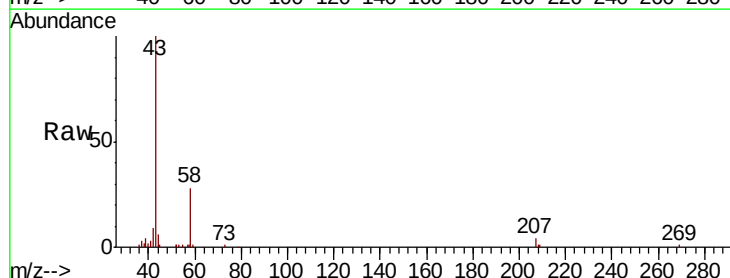
Instrument :
MSVOA_X
ClientSampled :

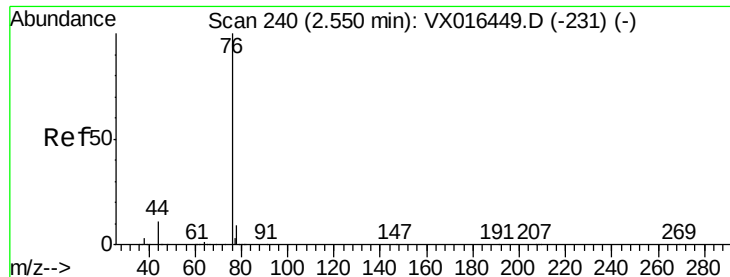
Tot Ion: 56 Resp: 553
Ion Ratio Lower Upper
56 100
55 0.0 58.3 87.5#



#16
Acetone
Concen: 14.624 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.00 min
Lab File: VX016565.D
Acq: 03 Jun 2020 14:49

Tgt Ion: 43 Resp: 20088
Ion Ratio Lower Upper
43 100
58 28.3 26.1 39.1





#17

Carbon Disulfide

Concen: 1.132 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX016565.D

Acq: 03 Jun 2020 14:49

Instrument :

MSVOA_X

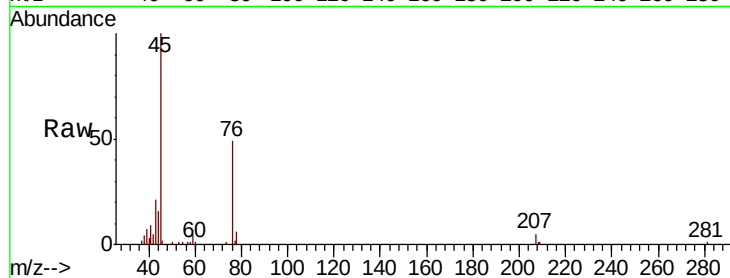
ClientSampleId :

Tot Ion: 76 Resp: 8168

Ion Ratio Lower Upper

76 100

78 11.4 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

5000

4000

3000

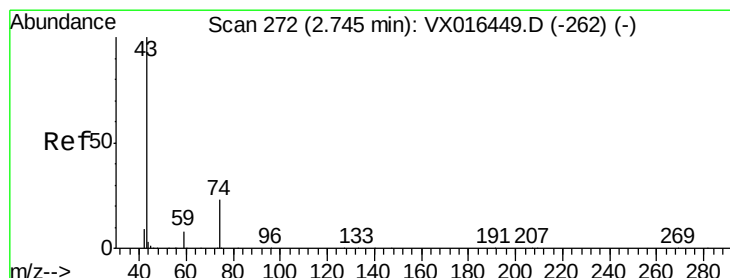
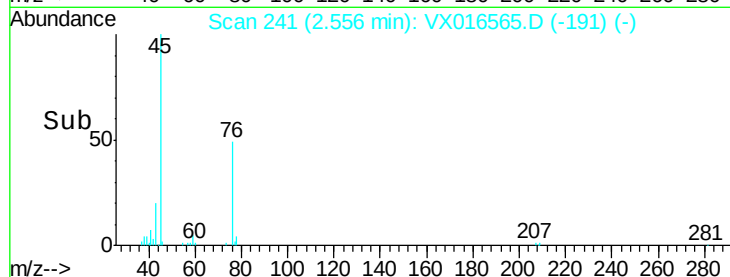
2000

1000

0

Time-->

2.50 2.55 2.60



#18

Methyl Acetate

Concen: 0.307 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.01 min

Lab File: VX016565.D

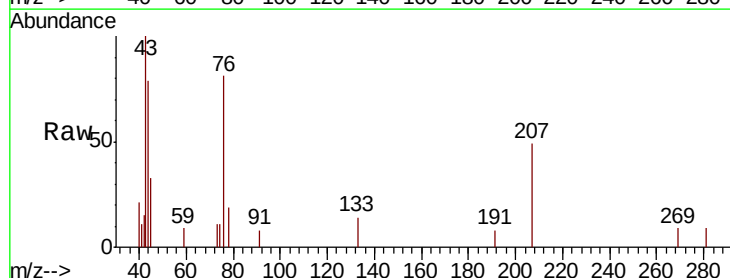
Acq: 03 Jun 2020 14:49

Tgt Ion: 43 Resp: 1081

Ion Ratio Lower Upper

43 100

74 19.3 19.7 29.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

800

600

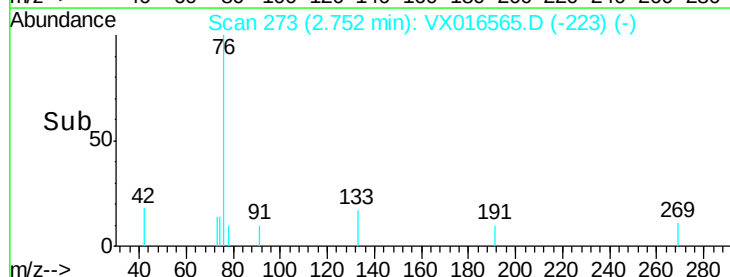
400

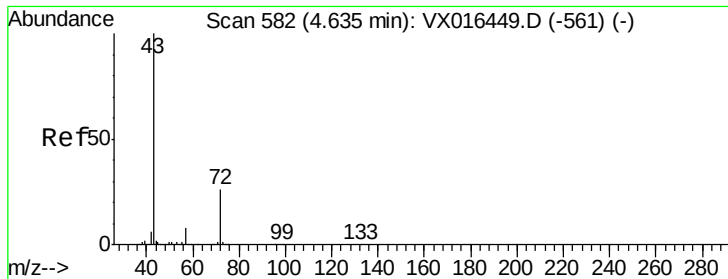
200

0

Time-->

2.70 2.75





#25

2-Butanone

Concen: 2.399 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX016565.D

Acq: 03 Jun 2020 14:49

Instrument :

MSVOA_X

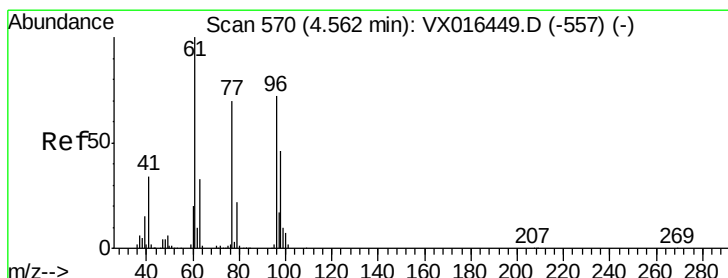
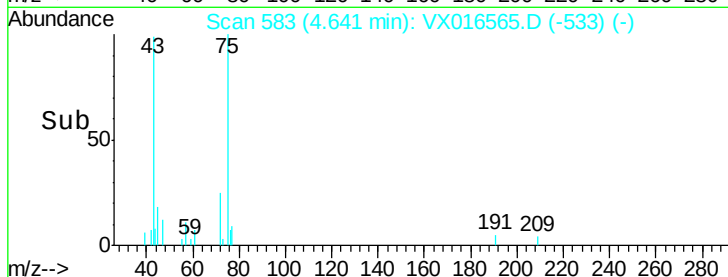
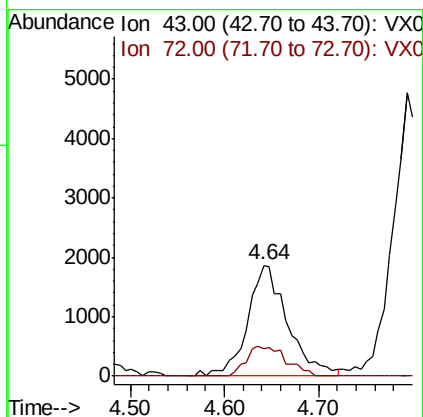
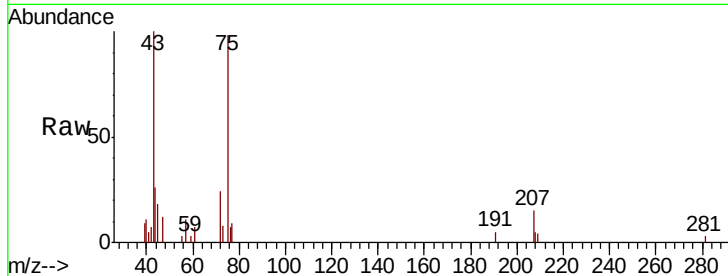
ClientSampled :

Tot Ion: 43 Resp: 5584

Ion Ratio Lower Upper

43 100

72 24.5 21.0 31.6



#27

cis-1,2-Dichloroethene

Concen: 1.756 ug/l

RT: 4.57 min Scan# 571

Delta R.T. 0.01 min

Lab File: VX016565.D

Acq: 03 Jun 2020 14:49

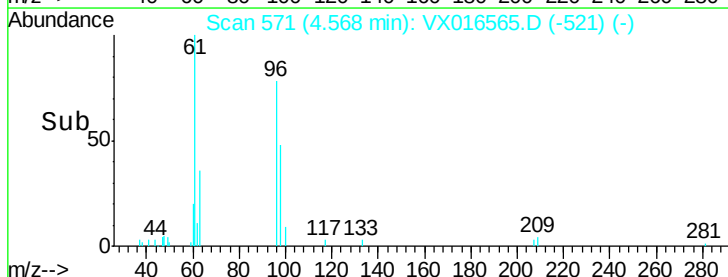
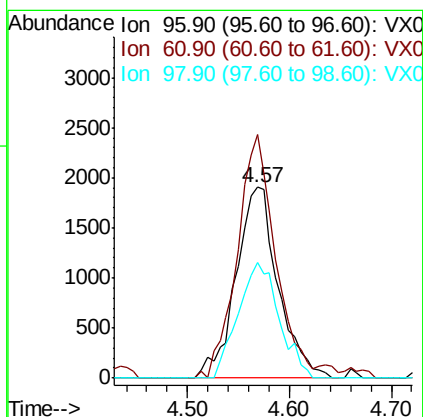
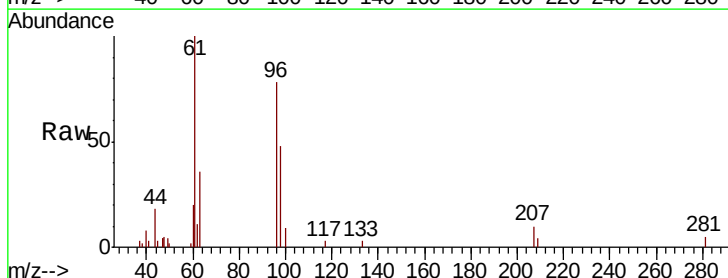
Tgt Ion: 96 Resp: 5458

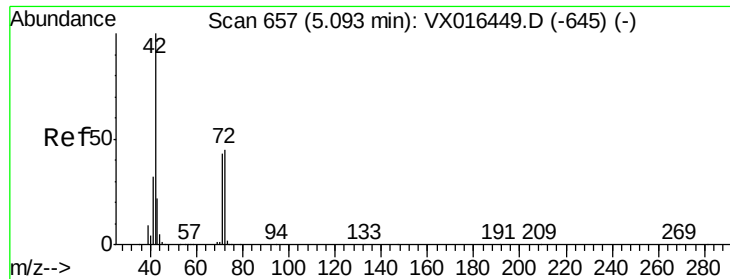
Ion Ratio Lower Upper

96 100

61 115.7 0.0 284.6

98 58.8 0.0 127.2

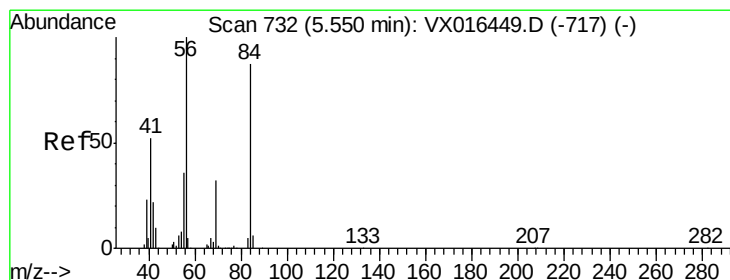
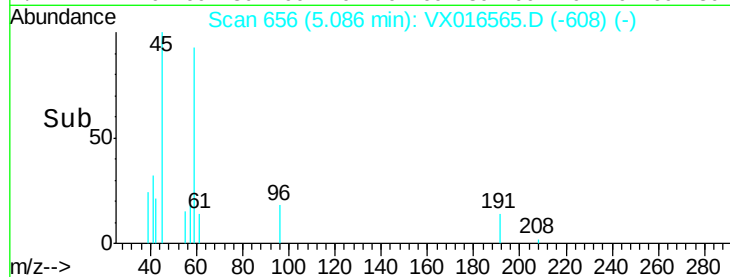
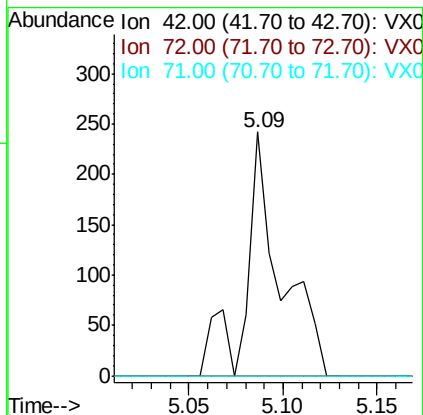
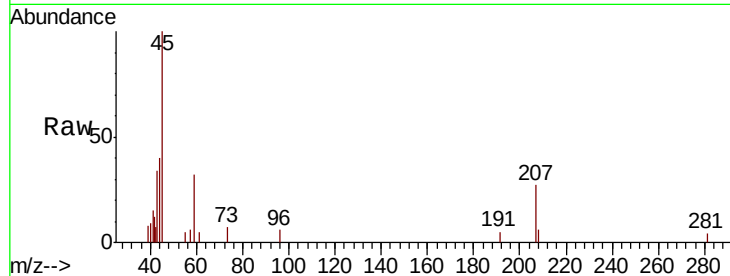




#29
Tetrahydrofuran
Concen: 0.207 ug/l
RT: 5.09 min Scan# 656
Delta R.T. -0.01 min
Lab File: VX016565.D
Acq: 03 Jun 2020 14:49

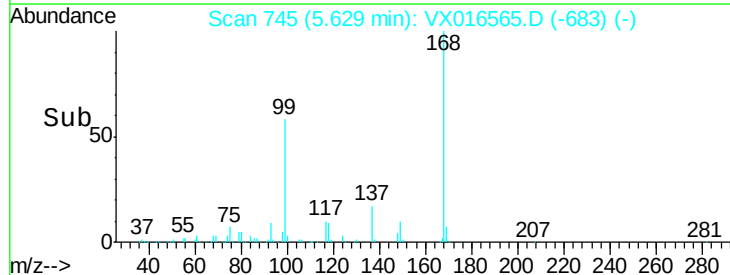
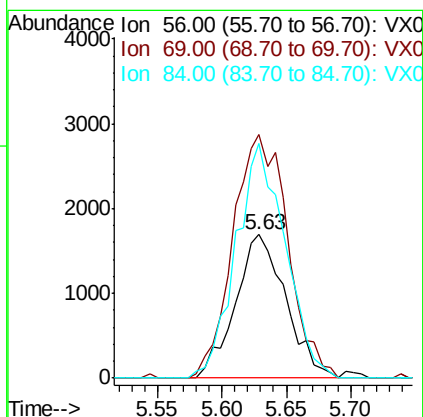
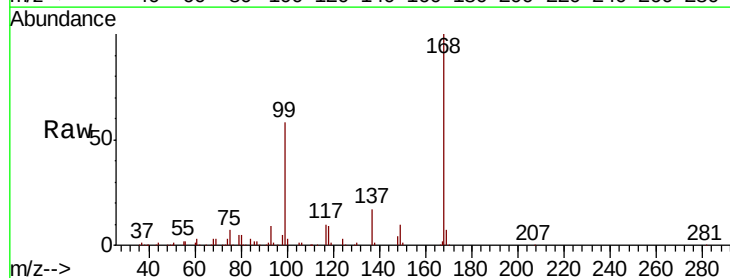
Instrument :
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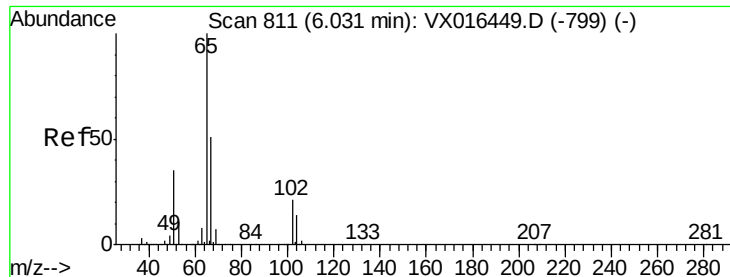
Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	37.0	55.4#
71	0.0	34.1	51.1#



#31
Cyclohexane
Concen: 1.053 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX016565.D
Acq: 03 Jun 2020 14:49

Tgt Ion	Ratio	Lower	Upper
56	100		
69	169.8	25.7	38.5#
84	163.2	70.0	105.0#

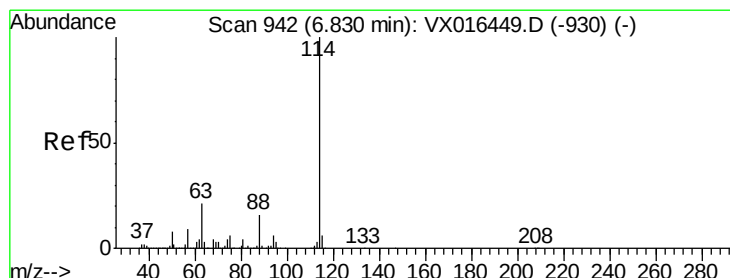
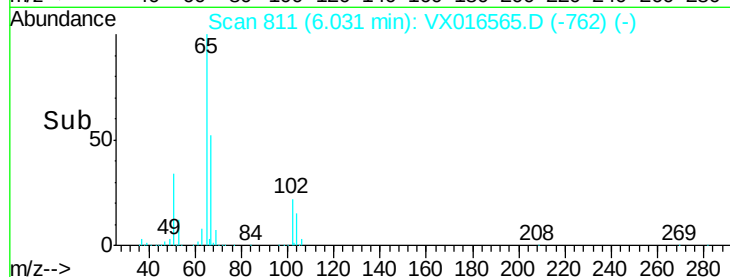
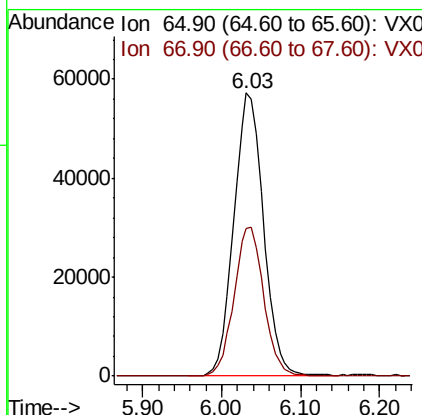
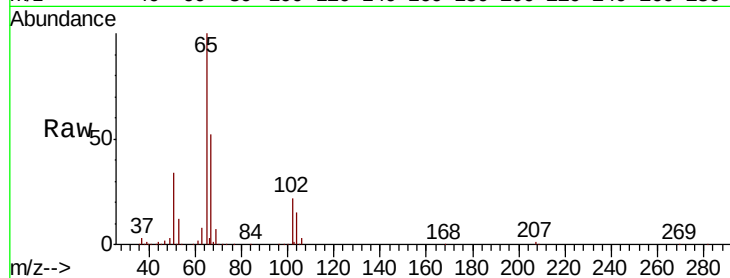




#33
 1,2-Dichloroethane-d4
 Concen: 47.879 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX016565.D
 Acq: 03 Jun 2020 14:49

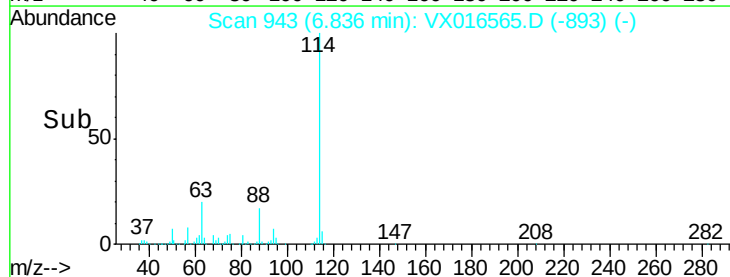
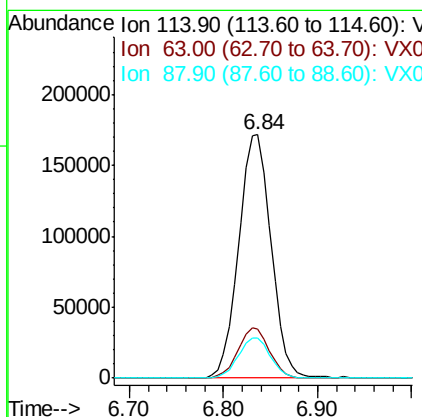
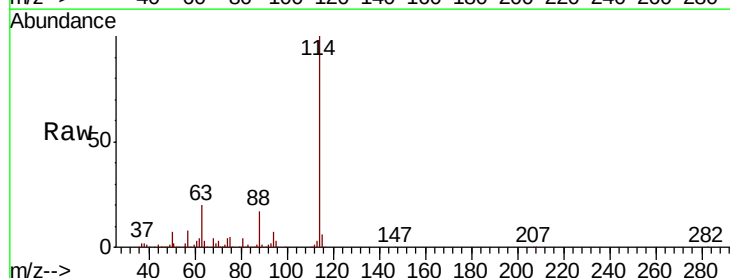
Instrument :
 MSVOA_X
 ClientSampleId :

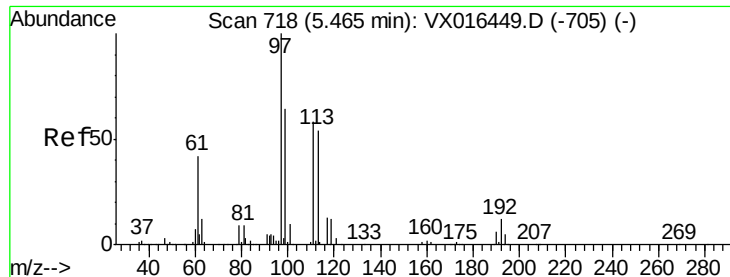
Tot Ion: 65 Resp: 150112
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VX016565.D
 Acq: 03 Jun 2020 14:49

Tgt Ion: 114 Resp: 410410
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 42.6
 88 16.7 0.0 32.8





#35

Dibromofluoromethane

Concen: 48.258 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX016565.D

Acq: 03 Jun 2020 14:49

Instrument :

MSVOA_X

ClientSampleId :

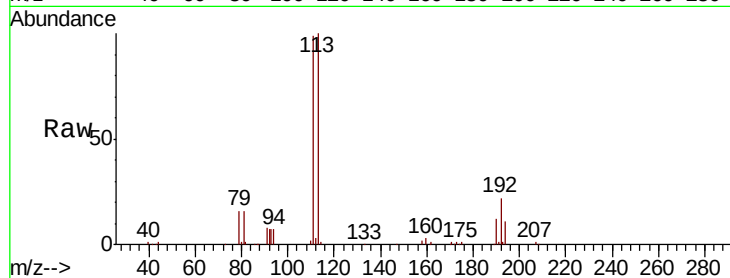
Tot Ion:113 Resp: 121951

Ion Ratio Lower Upper

113 100

111 102.1 83.0 124.6

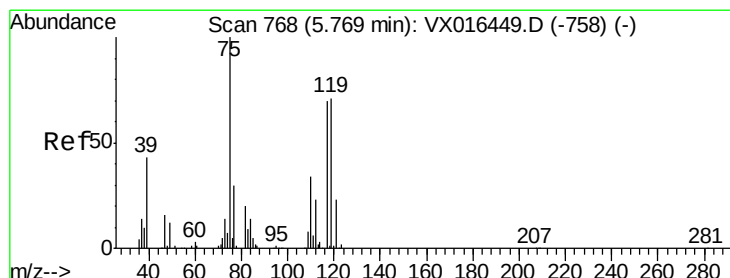
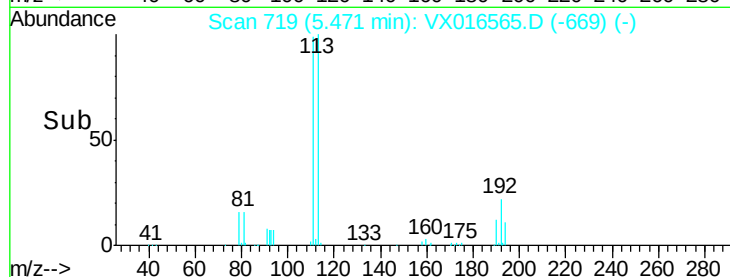
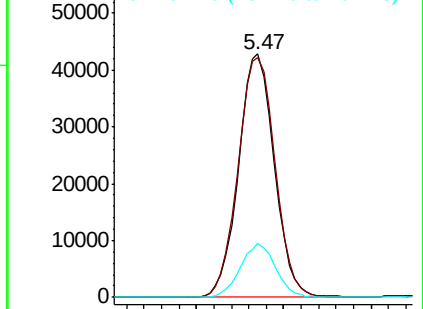
192 21.8 17.7 26.5



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: 4.555 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016565.D

Acq: 03 Jun 2020 14:49

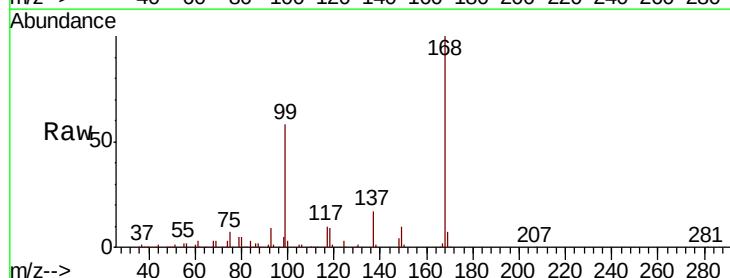
Tgt Ion: 75 Resp: 17698

Ion Ratio Lower Upper

75 100

110 11.1 17.4 52.3#

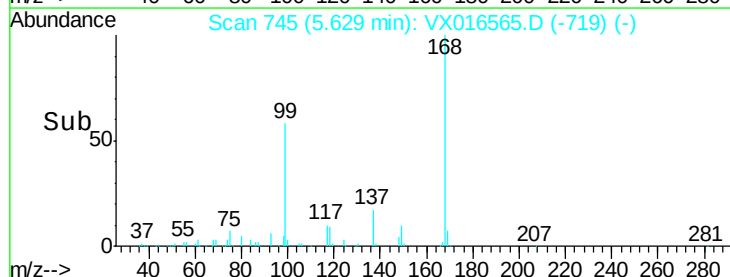
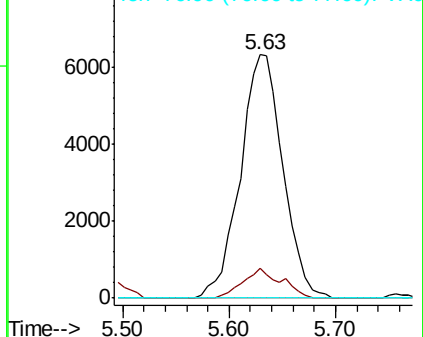
77 0.0 24.2 36.4#

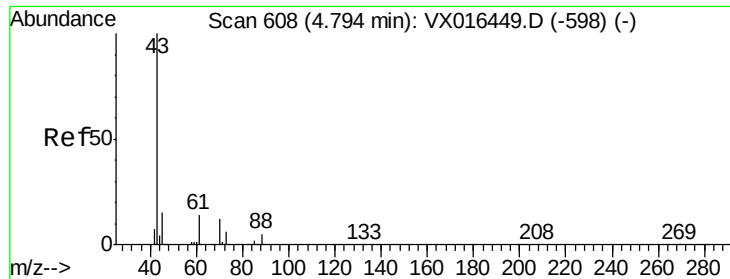


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

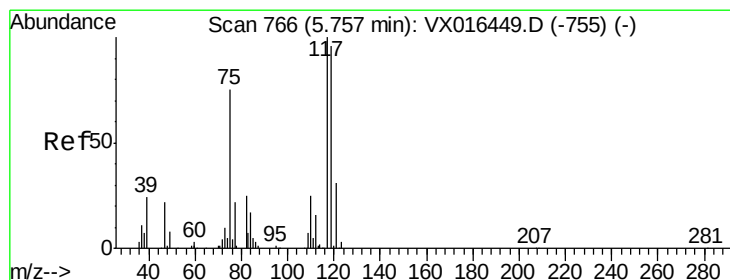
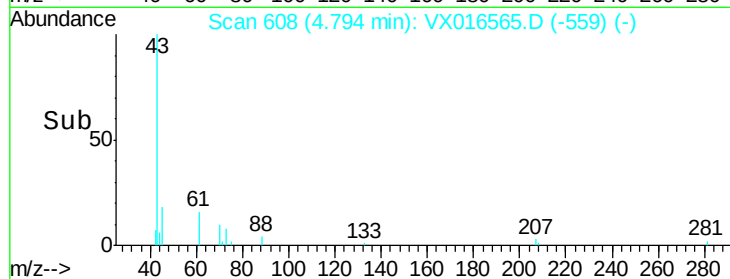
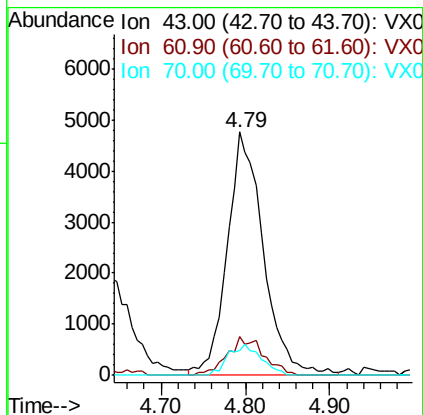
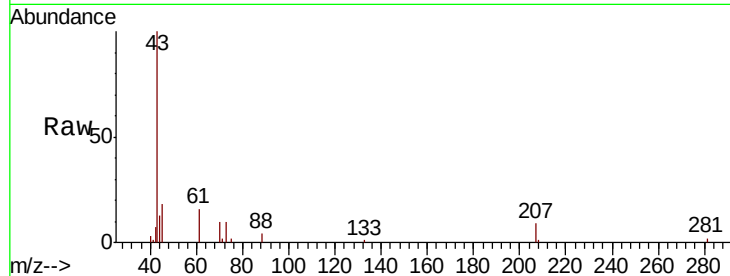




#37
Ethyl Acetate
Concen: 2.970 ug/l
RT: 4.79 min Scan# 608
Delta R.T. -0.00 min
Lab File: VX016565.D
Acq: 03 Jun 2020 14:49

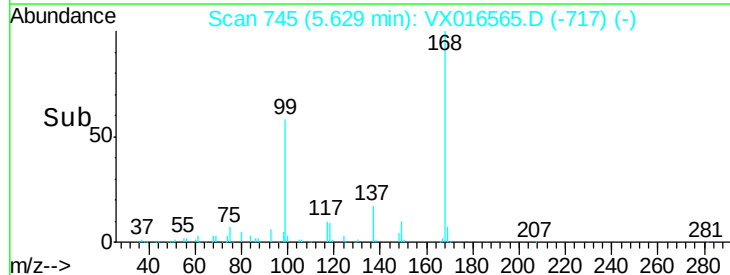
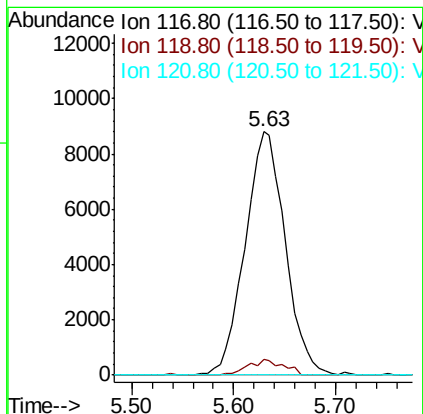
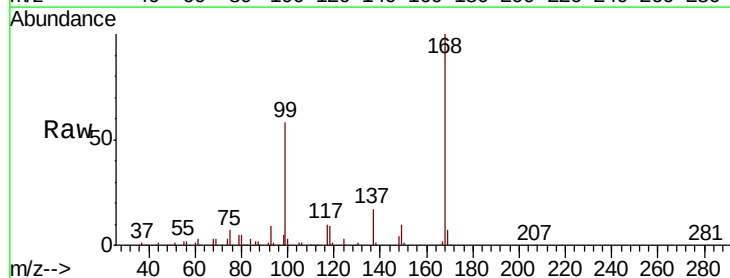
Instrument :
MSVOA_X
ClientSampleId :

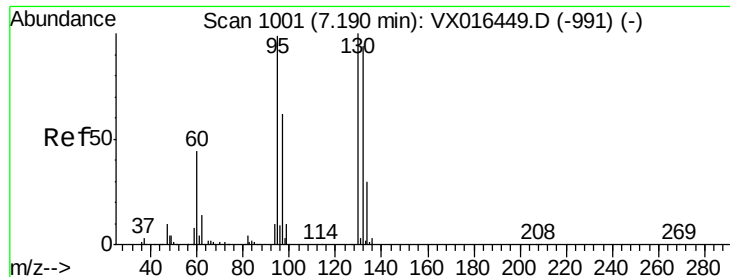
Tot Ion: 43 Resp: 13854
Ion Ratio Lower Upper
43 100
61 15.9 11.3 16.9
70 11.6 9.3 13.9



#38
Carbon Tetrachloride
Concen: 5.892 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.13 min
Lab File: VX016565.D
Acq: 03 Jun 2020 14:49

Tgt Ion: 117 Resp: 24062
Ion Ratio Lower Upper
117 100
119 6.6 76.3 114.5#
121 0.0 24.6 37.0#





#44

Trichloroethene

Concen: 3.727 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX016565.D

Acq: 03 Jun 2020 14:49

Instrument :

MSVOA_X

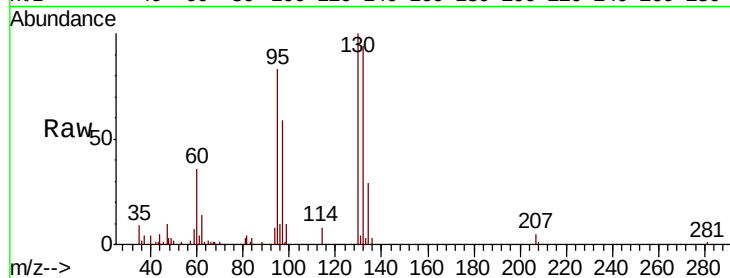
ClientSampleId :

Tot Ion:130 Resp: 13684

Ion Ratio Lower Upper

130 100

95 82.7 0.0 198.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.19

6000

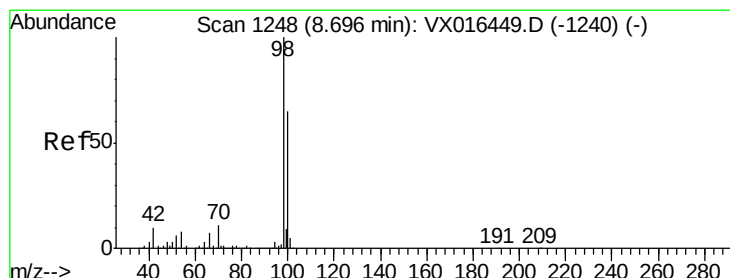
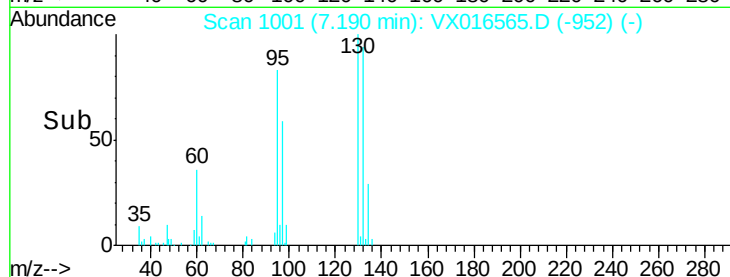
4000

2000

0

Time-->

7.10 7.15 7.20 7.25



#50

Toluene-d8

Concen: 51.462 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016565.D

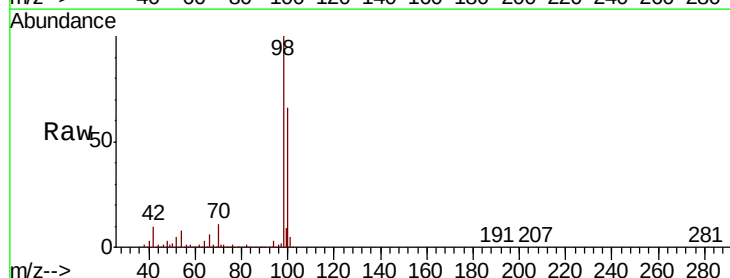
Acq: 03 Jun 2020 14:49

Tgt Ion: 98 Resp: 506180

Ion Ratio Lower Upper

98 100

100 67.0 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.70

400000

300000

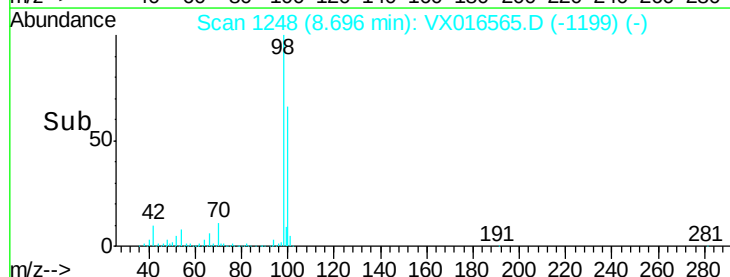
200000

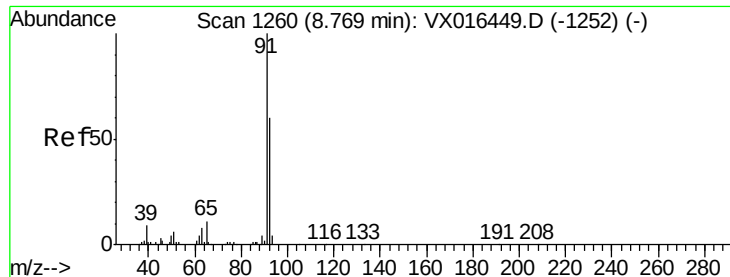
100000

0

Time-->

8.60 8.65 8.70 8.75 8.80





#52

Toluene

Concen: 0.239 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VX016565.D

Acq: 03 Jun 2020 14:49

Instrument :

MSVOA_X

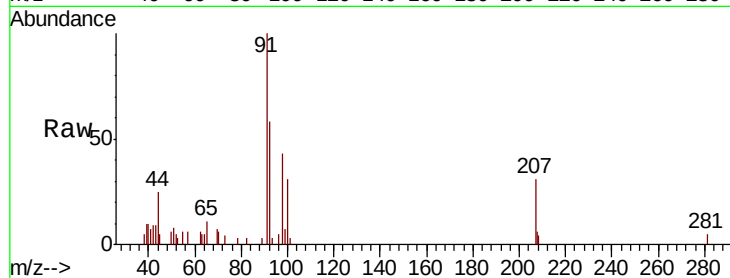
ClientSampleId :

Tot Ion: 92 Resp: 1741

Ion Ratio Lower Upper

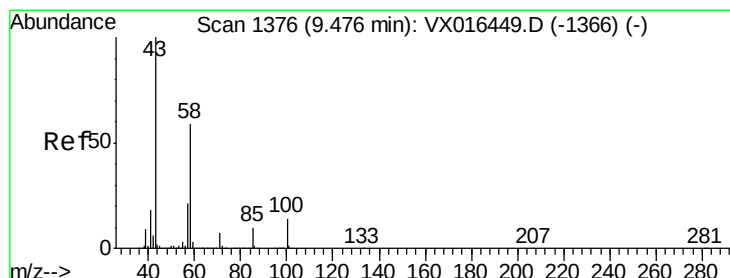
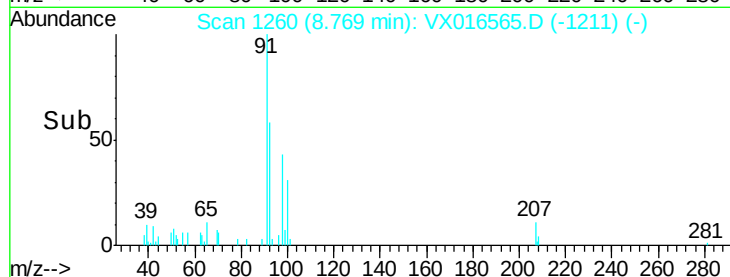
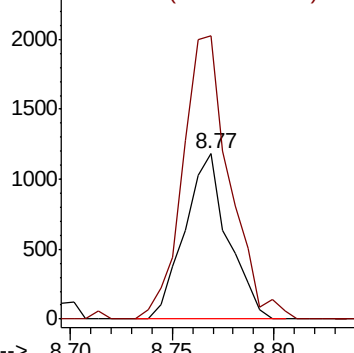
92 100

91 185.6 135.0 202.4



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#59

2-Hexanone

Concen: 0.467 ug/l

RT: 9.48 min Scan# 1376

Delta R.T. -0.00 min

Lab File: VX016565.D

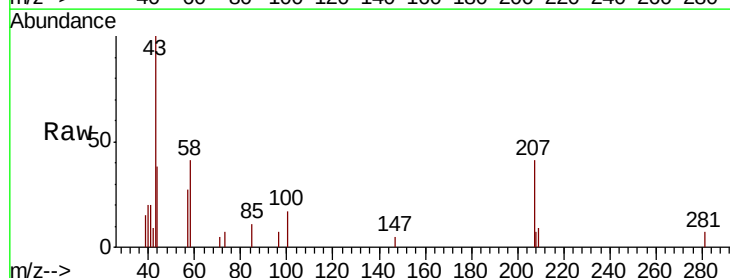
Acq: 03 Jun 2020 14:49

Tgt Ion: 43 Resp: 1644

Ion Ratio Lower Upper

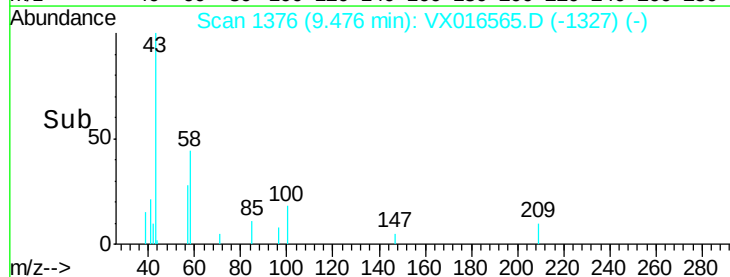
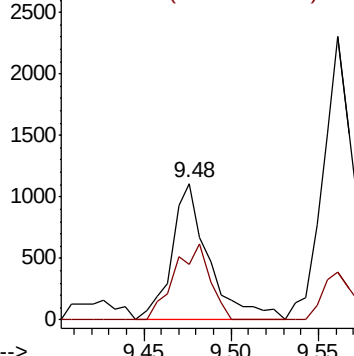
43 100

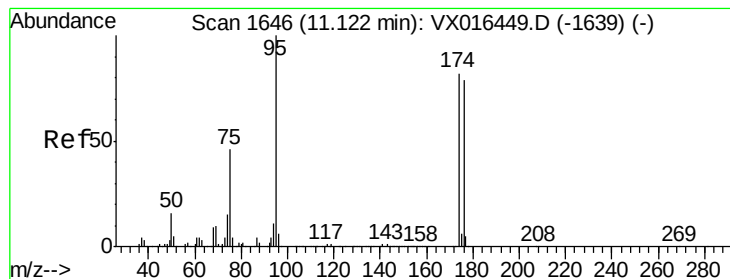
58 53.3 28.8 86.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 53.407 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016565.D

Acq: 03 Jun 2020 14:49

Instrument :

MSVOA_X

ClientSampled :

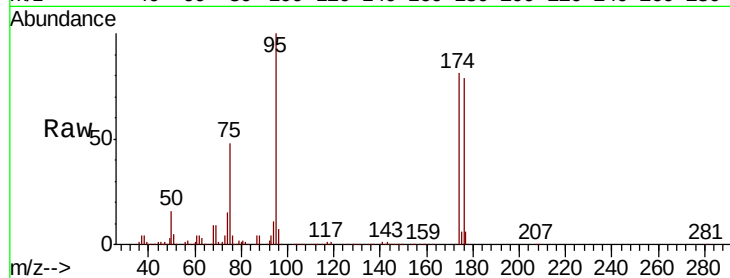
Tot Ion: 95 Resp: 202977

Ion Ratio Lower Upper

95 100

174 82.6 0.0 163.0

176 82.1 0.0 156.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0

11.12

200000

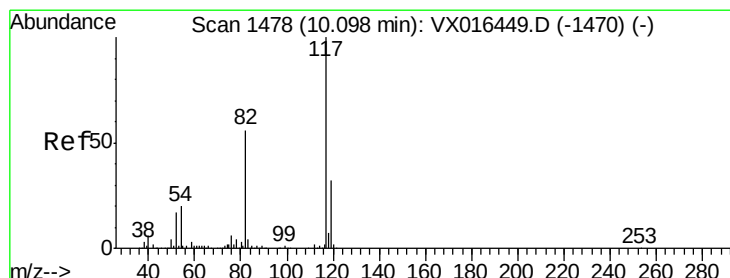
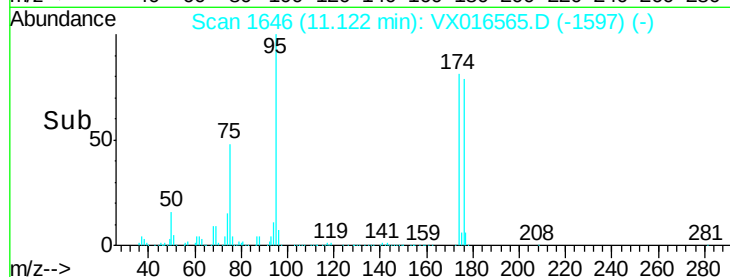
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016565.D

Acq: 03 Jun 2020 14:49

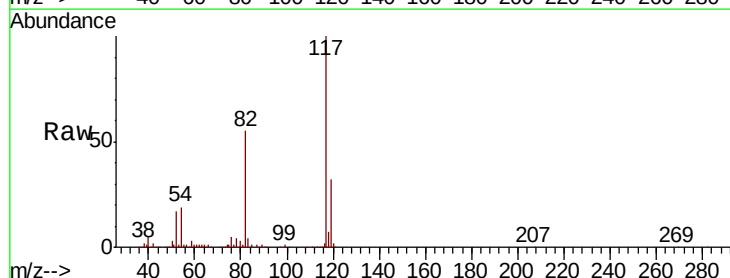
Tgt Ion: 117 Resp: 409087

Ion Ratio Lower Upper

117 100

82 54.5 45.0 67.6

119 32.2 25.8 38.8



Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0

10.10

400000

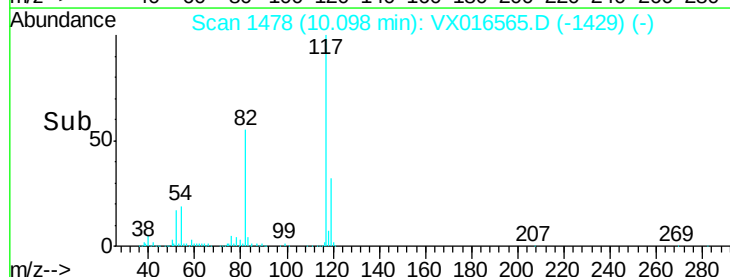
300000

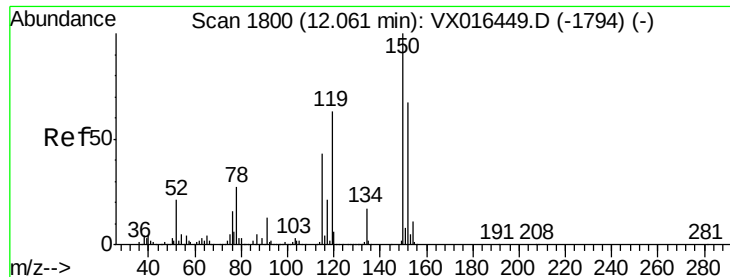
200000

100000

0

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: VX016565.D

Acq: 03 Jun 2020 14:49

Instrument :

MSVOA_X

ClientSampleId :

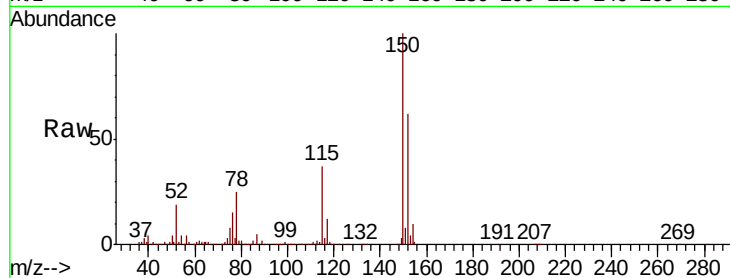
Tot Ion:152 Resp: 206499

Ion Ratio Lower Upper

152 100

115 58.8 39.9 119.6

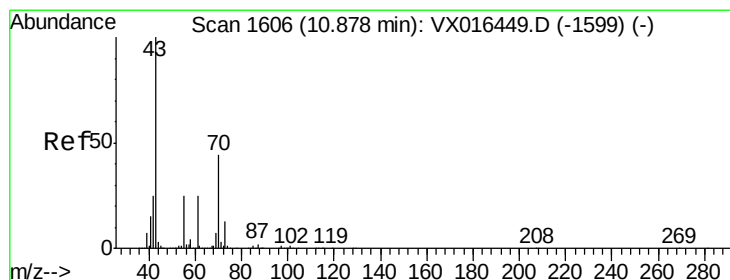
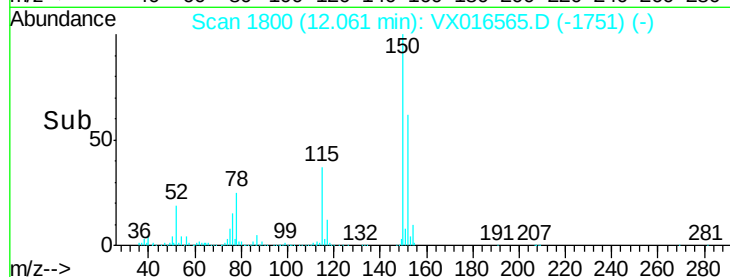
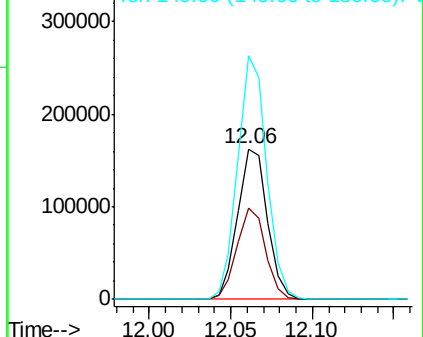
150 158.2 0.0 341.0



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



#74

N-ethyl acetate

Concen: 0.322 ug/l

RT: 10.92 min Scan# 1613

Delta R.T. 0.04 min

Lab File: VX016565.D

Acq: 03 Jun 2020 14:49

Tgt Ion: 43 Resp: 2117

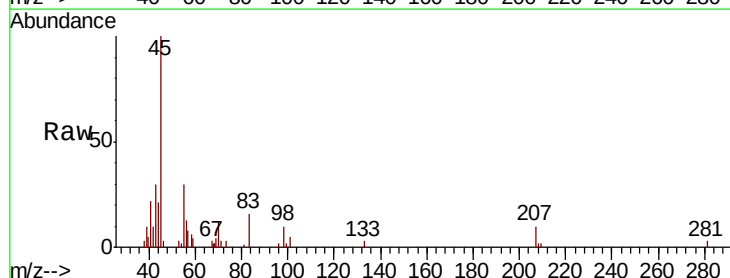
Ion Ratio Lower Upper

43 100

70 0.0 36.1 54.1#

55 105.4 20.2 30.4#

61 0.0 20.3 30.5#

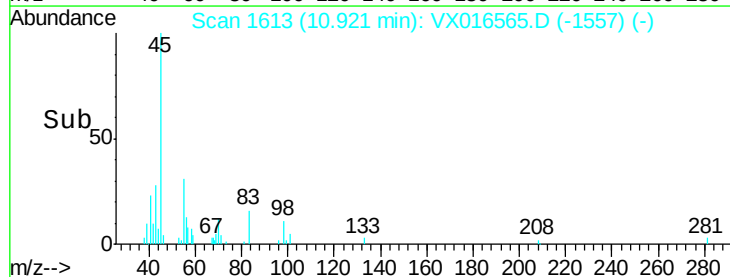
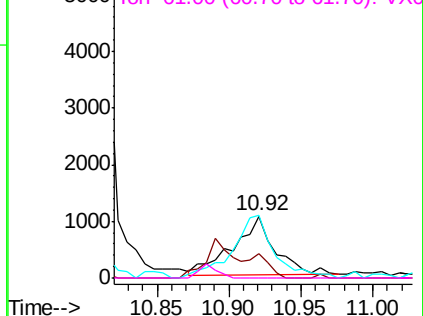


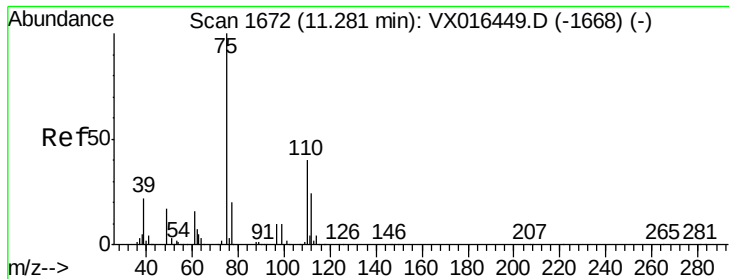
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 21.671 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016565.D

Acq: 03 Jun 2020 14:49

Instrument :

MSVOA_X

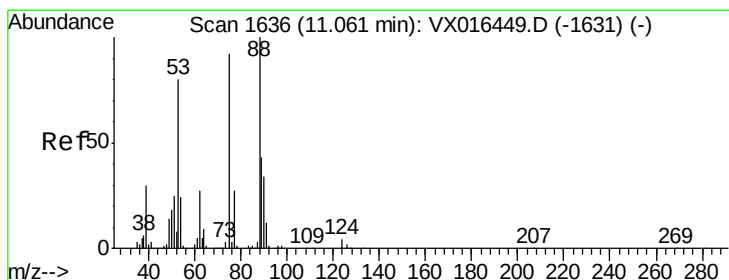
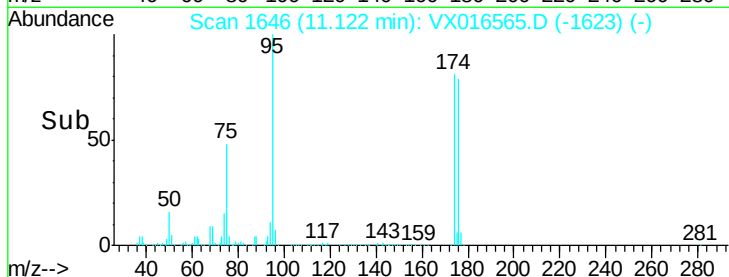
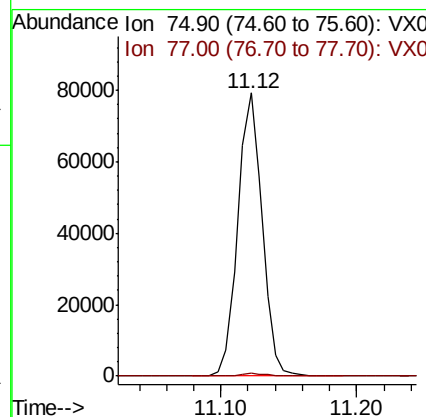
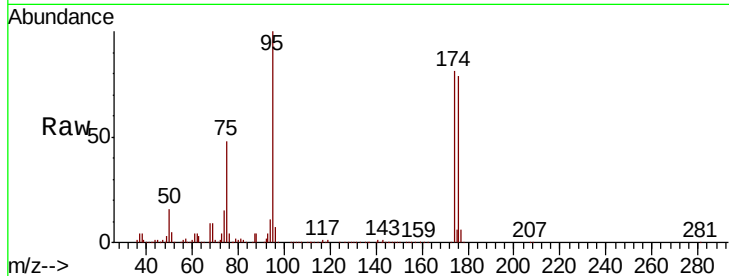
ClientSampled :

Tot Ion: 75 Resp: 98364

Ion Ratio Lower Upper

75 100

77 1.2 21.3 63.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 53.308 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016565.D

Acq: 03 Jun 2020 14:49

Tgt Ion: 75 Resp: 98364

Ion Ratio Lower Upper

75 100

53 0.0 71.3 106.9#

89 0.0 36.6 55.0#

