

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050120\
 Data File : VX016010.D
 Acq On : 01 May 2020 14:46
 Operator : JC/SP
 Sample : L2470-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 02 06:59:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042820W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 28 17:30:11 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	275563	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	447232	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	426808	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	214165	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	174339	48.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.78%	
35) Dibromofluoromethane	5.47	113	131991	47.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.62%	
50) Toluene-d8	8.70	98	542263	51.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.98%	
62) 4-Bromofluorobenzene	11.12	95	214637	52.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.92%	

Target Compounds

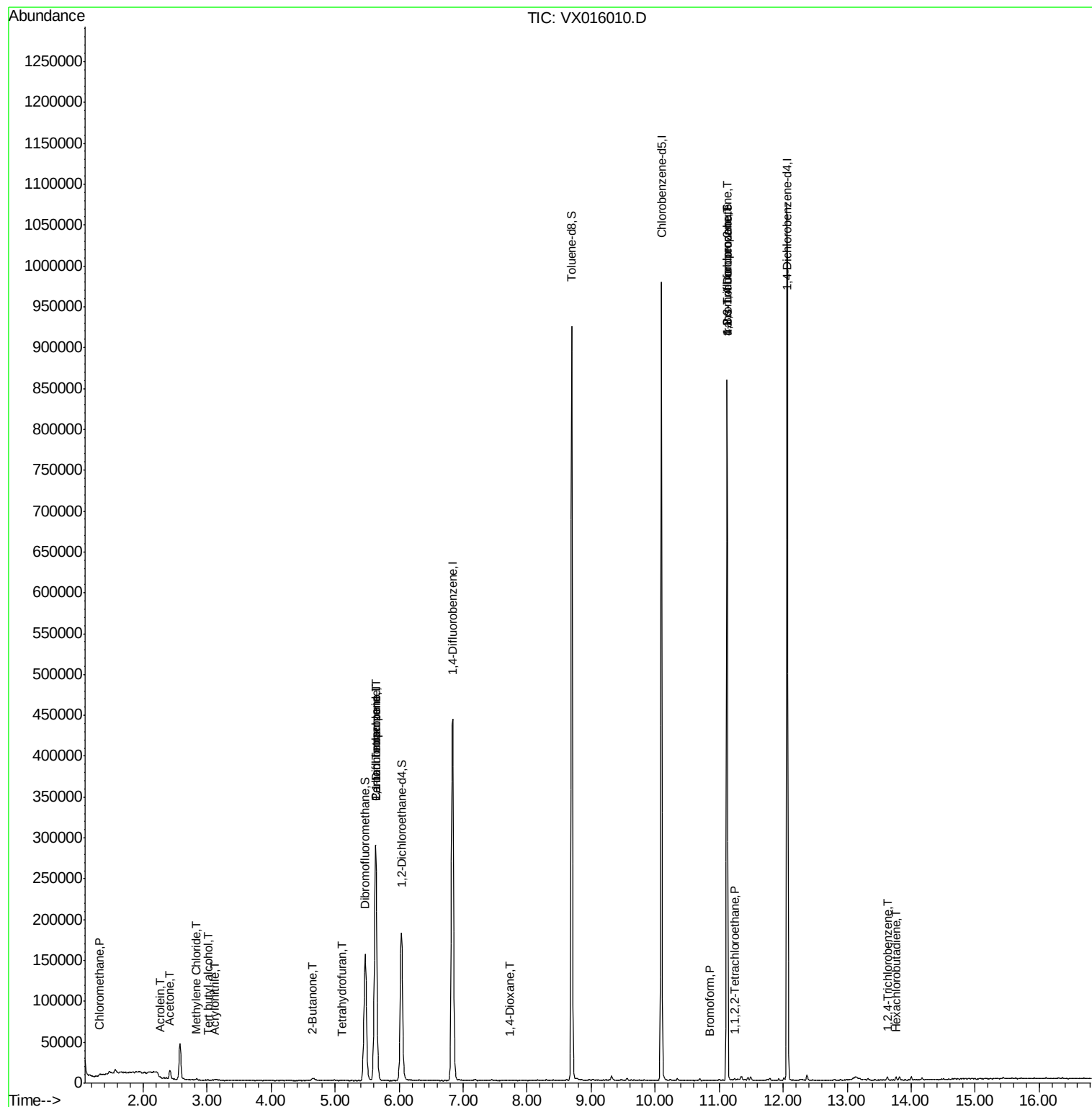
						Qvalue
3) Chloromethane	1.31	50	1081	0.362	ug/l	91
11) Tert butyl alcohol	3.03	59	400	0.457	ug/l #	86
13) Acrolein	2.28	56	240	1.092	ug/l #	14
15) Acrylonitrile	3.12	53	714	0.412	ug/l #	77
16) Acetone	2.42	43	11654	7.564	ug/l	95
20) Methylene Chloride	2.84	84	617	0.202	ug/l #	82
25) 2-Butanone	4.65	43	1456	0.583	ug/l #	49
29) Tetrahydrofuran	5.10	42	354	0.216	ug/l #	36
36) 1,1-Dichloropropene	5.63	75	22109	5.190	ug/l #	50
38) Carbon Tetrachloride	5.63	117	27246	6.056	ug/l #	16
49) 1,4-Dioxane	7.74	88	19	0.216	ug/l #	1
71) Bromoform	10.84	173	48	2.680	ug/l #	29
75) 1,1,2,2-Tetrachloroethane	11.25	83	73	3.721	ug/l #	25
76) 1,2,3-Trichloropropane	11.12	75	113639	25.287	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.12	75	113639	59.758	ug/l #	10
93) 1,2,4-Trichlorobenzene	13.63	180	1088	0.222	ug/l	93
94) Hexachlorobutadiene	13.77	225	471	0.215	ug/l	87

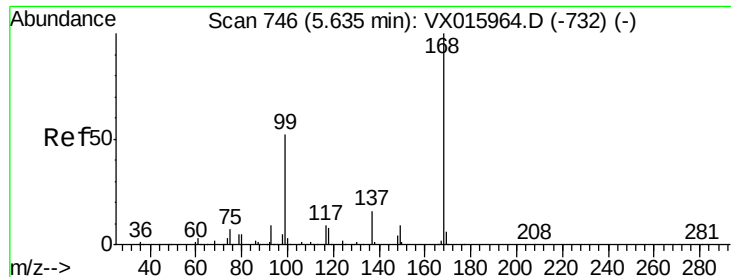
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Apr 28 17:30:11 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.00 min

Lab File: VX016010.D

Acq: 01 May 2020 14:46

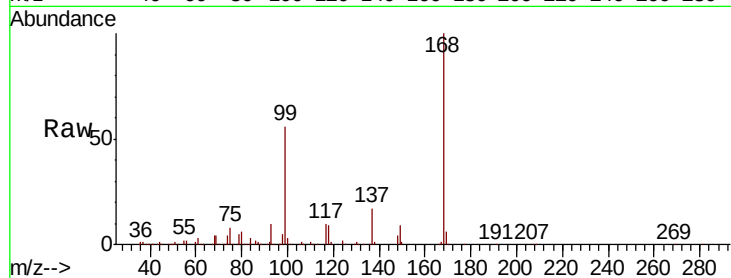
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 275563

Ion Ratio Lower Upper

168 100

99 56.5 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

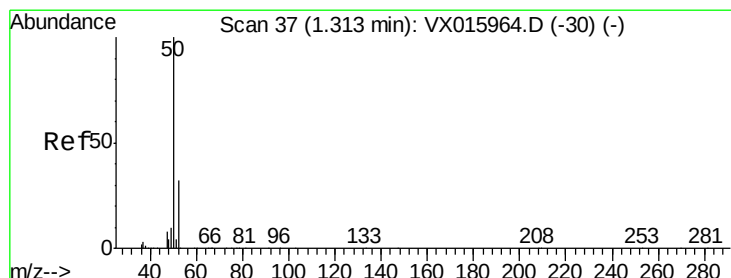
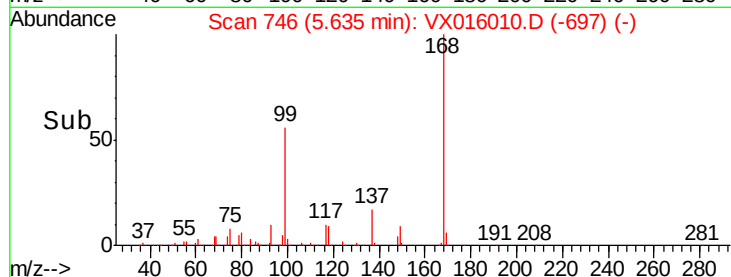
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.362 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX016010.D

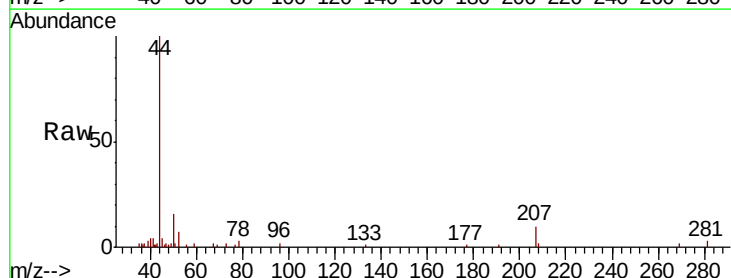
Acq: 01 May 2020 14:46

Tgt Ion: 50 Resp: 1081

Ion Ratio Lower Upper

50 100

52 36.9 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

800

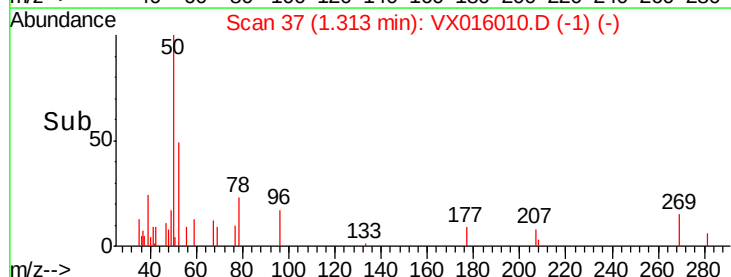
600

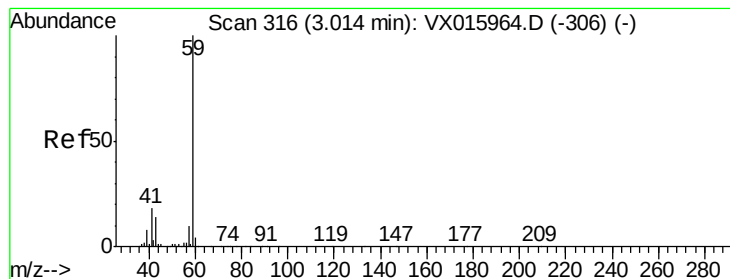
400

200

0

Time-->



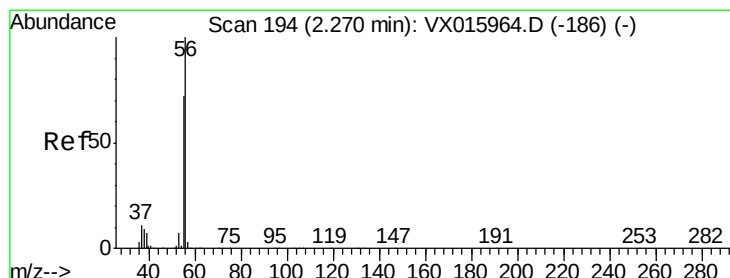
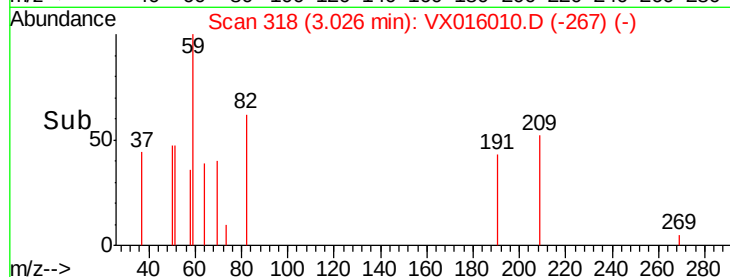
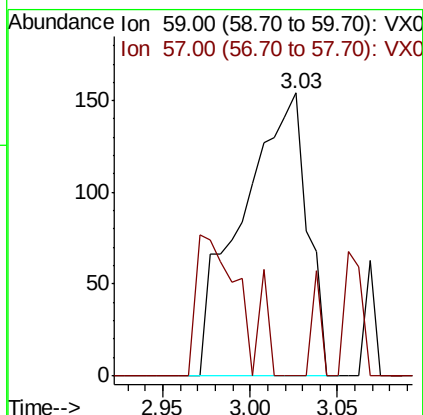
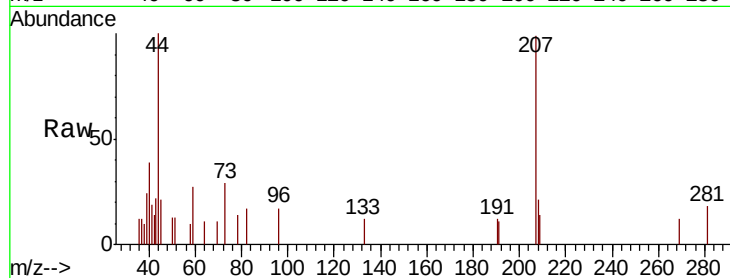


#11

Tert butyl alcohol
Concen: 0.457 ug/l
RT: 3.03 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX016010.D
Acq: 01 May 2020 14:46

Instrument :
MSVOA_X
ClientSampleId :

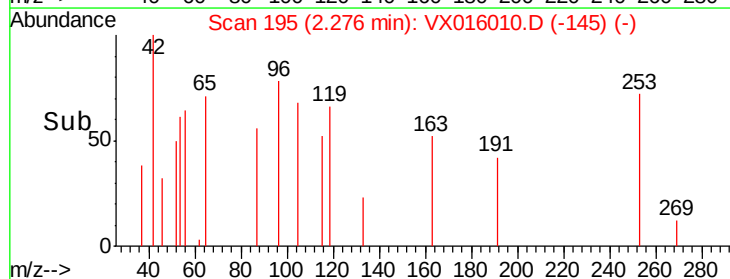
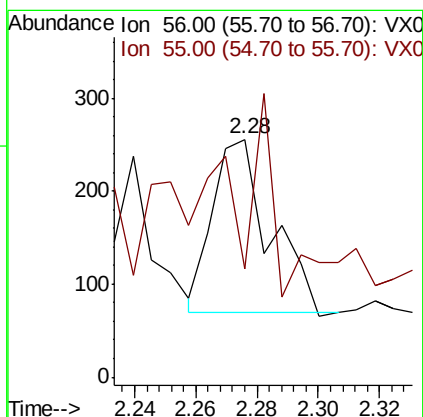
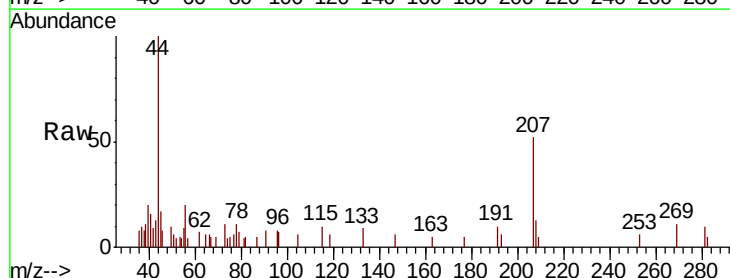
Tot Ion: 59 Resp: 400
Ion Ratio Lower Upper
59 100
57 5.3 8.3 12.5#

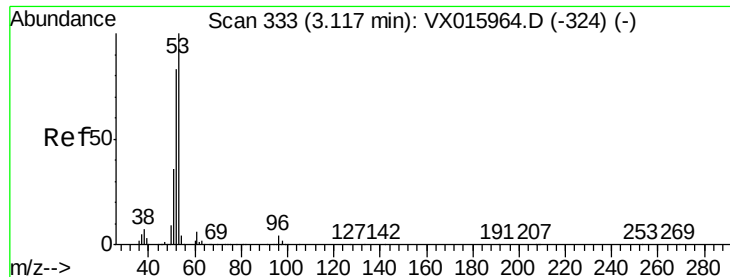


#13

Acrolein
Concen: 1.092 ug/l
RT: 2.28 min Scan# 195
Delta R.T. 0.01 min
Lab File: VX016010.D
Acq: 01 May 2020 14:46

Tgt Ion: 56 Resp: 240
Ion Ratio Lower Upper
56 100
55 0.0 56.9 85.3#





#15

Acrylonitrile

Concen: 0.412 ug/l

RT: 3.12 min Scan# 333

Delta R.T. 0.00 min

Lab File: VX016010.D

Acq: 01 May 2020 14:46

Instrument :

MSVOA_X

ClientSampleId :

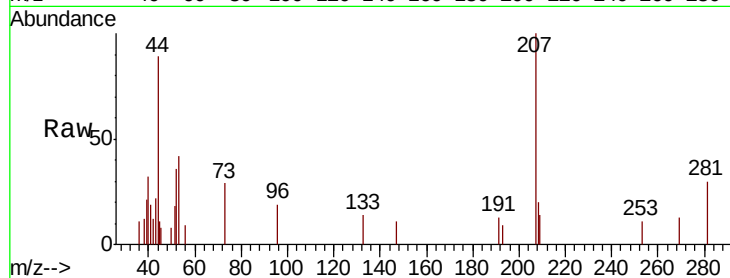
Tot Ion: 53 Resp: 714

Ion Ratio Lower Upper

53 100

52 87.5 65.5 98.3

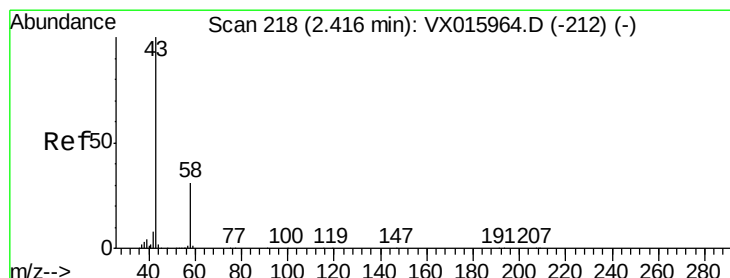
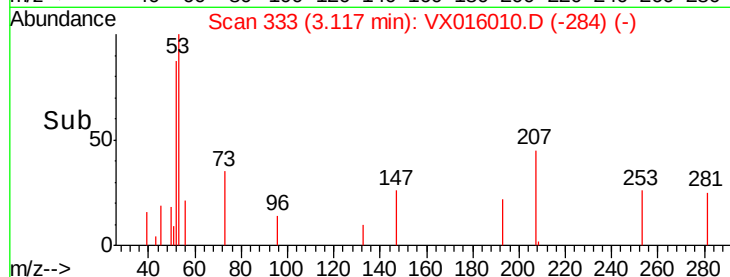
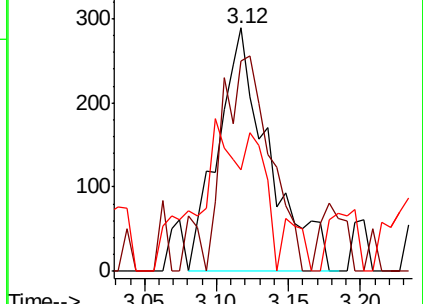
51 0.0 28.7 43.1#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 7.564 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.01 min

Lab File: VX016010.D

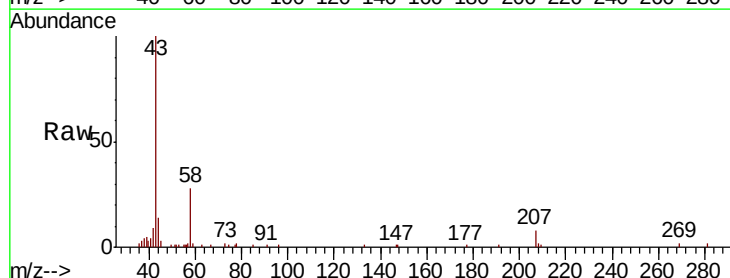
Acq: 01 May 2020 14:46

Tgt Ion: 43 Resp: 11654

Ion Ratio Lower Upper

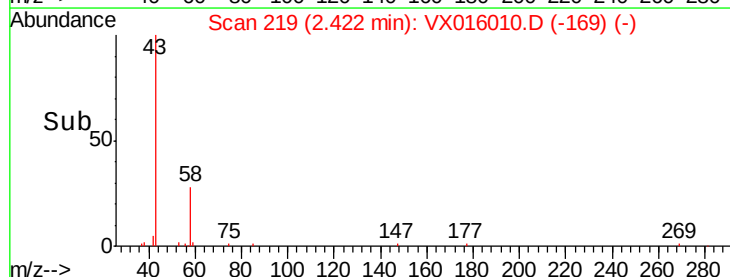
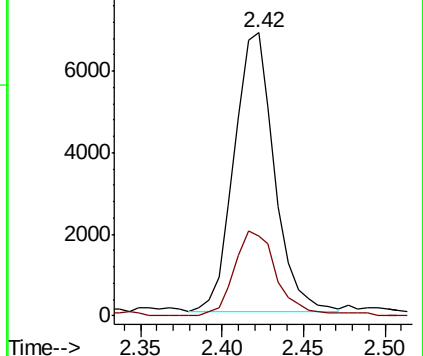
43 100

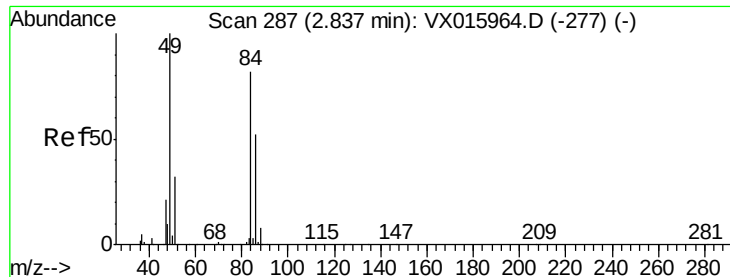
58 28.6 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#20

Methylene Chloride

Concen: 0.202 ug/l

RT: 2.84 min Scan# 287

Delta R.T. 0.00 min

Lab File: VX016010.D

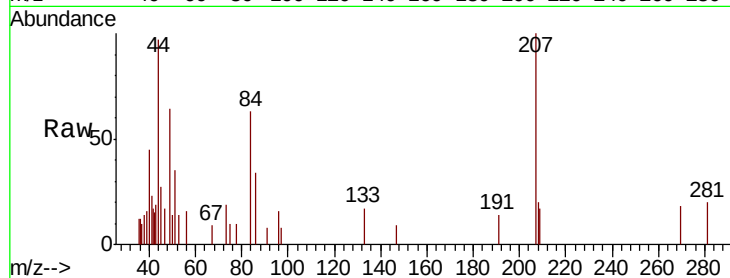
Acq: 01 May 2020 14:46

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:	84	Resp:	617
Ion	Ratio	Lower	Upper
84	100		
49	102.2	97.9	146.9
51	56.5	31.2	46.8#
86	53.8	50.7	76.1

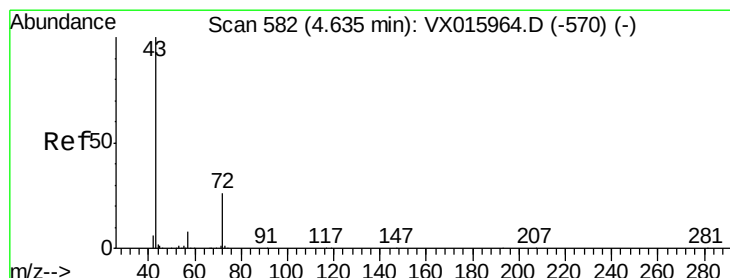
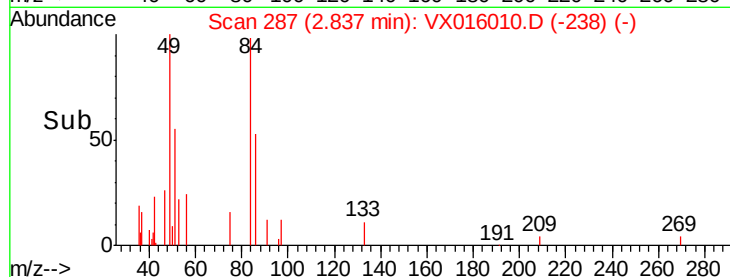
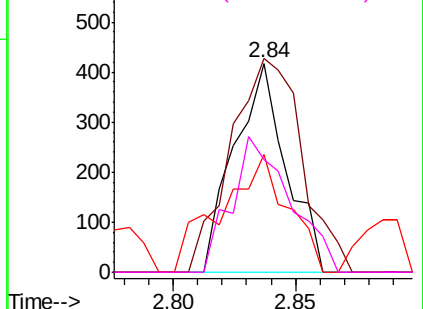


Abundance Ion 83.90 (83.60 to 84.60): VX0

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: 0.583 ug/l

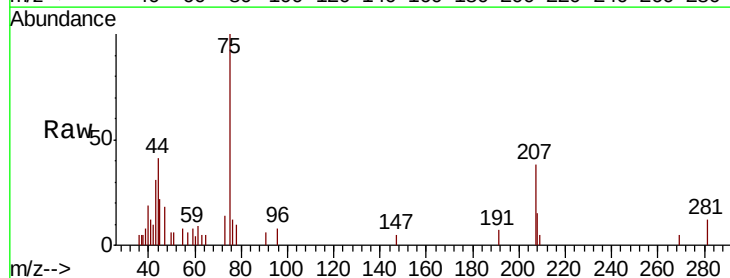
RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX016010.D

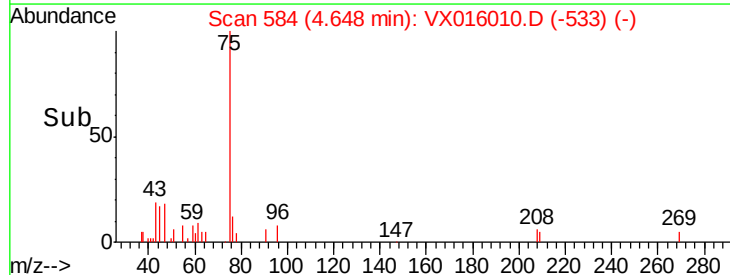
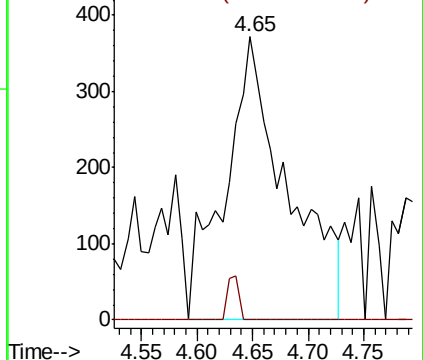
Acq: 01 May 2020 14:46

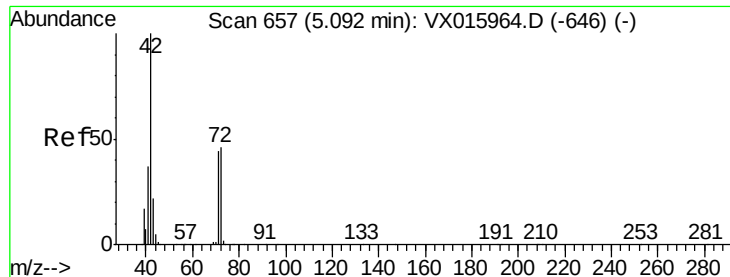
Tgt Ion:	43	Resp:	1456
Ion	Ratio	Lower	Upper
43	100		
72	0.0	21.0	31.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.216 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX016010.D

Acq: 01 May 2020 14:46

Instrument :

MSVOA_X

ClientSampled :

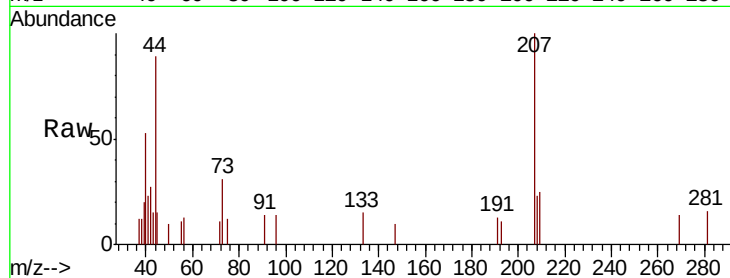
Tot Ion: 42 Resp: 354

Ion Ratio Lower Upper

42 100

72 0.0 37.4 56.0#

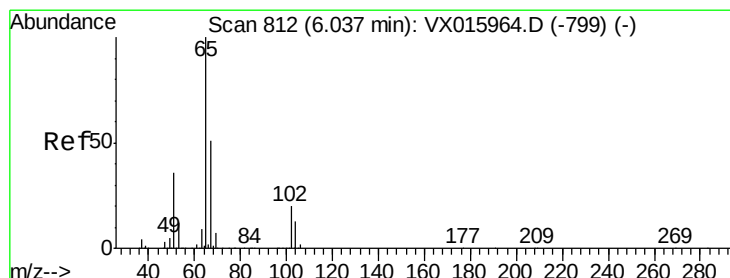
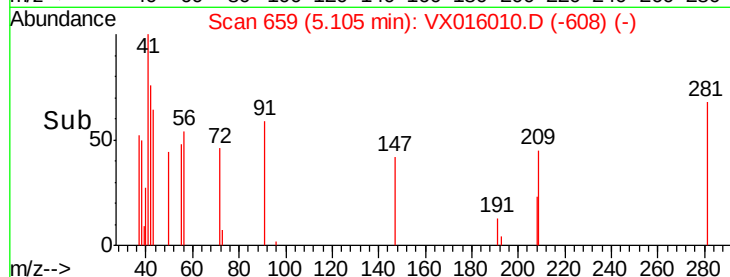
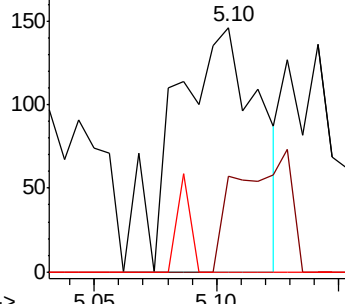
71 6.2 34.6 52.0#



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



#33

1,2-Dichloroethane-d4

Concen: 48.389 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.01 min

Lab File: VX016010.D

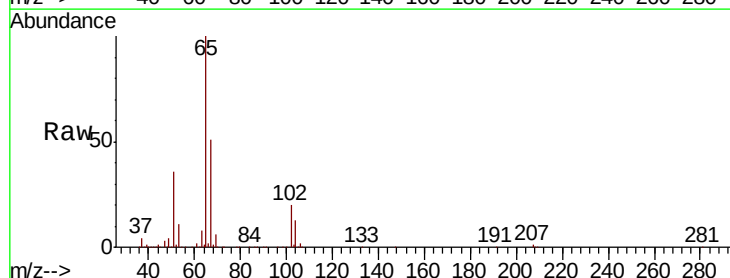
Acq: 01 May 2020 14:46

Tgt Ion: 65 Resp: 174339

Ion Ratio Lower Upper

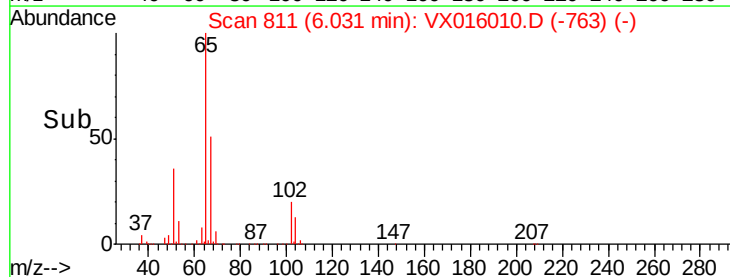
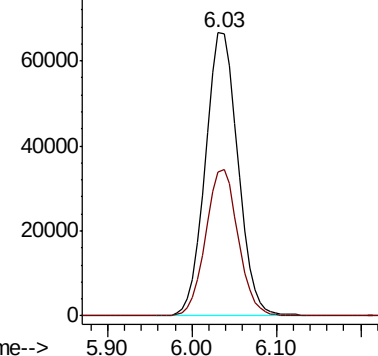
65 100

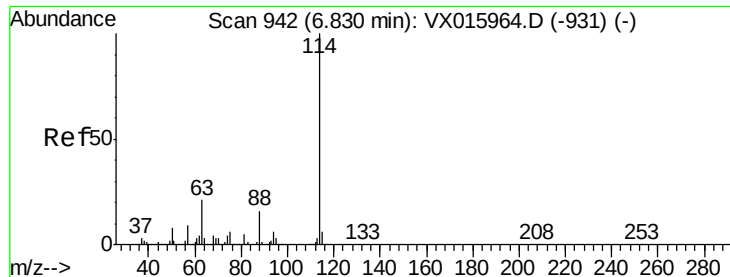
67 51.3 0.0 102.4



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: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016010.D

Acq: 01 May 2020 14:46

Instrument :

MSVOA_X

ClientSampleId :

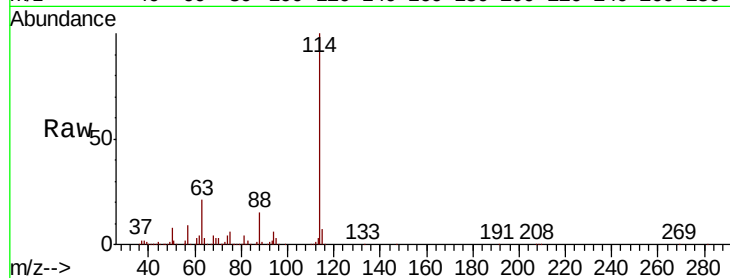
Tot Ion:114 Resp: 447232

Ion Ratio Lower Upper

114 100

63 20.9 0.0 41.2

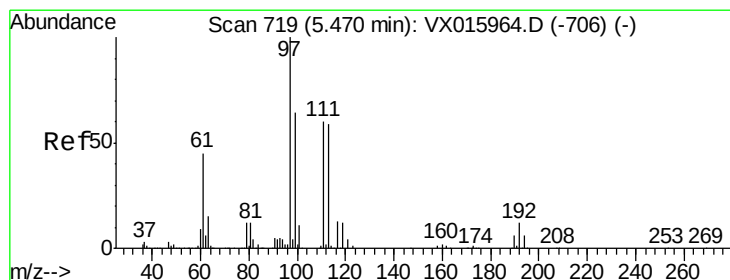
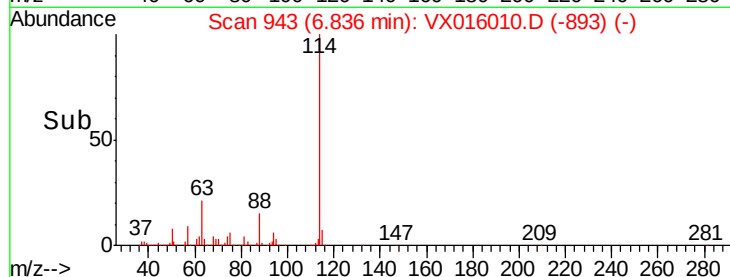
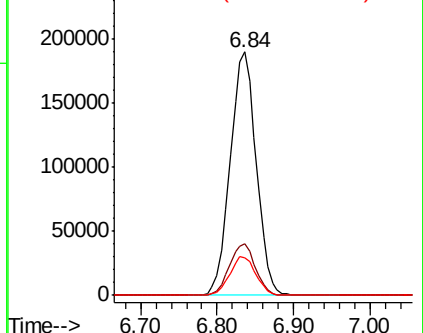
88 15.5 0.0 31.8



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: 47.311 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.00 min

Lab File: VX016010.D

Acq: 01 May 2020 14:46

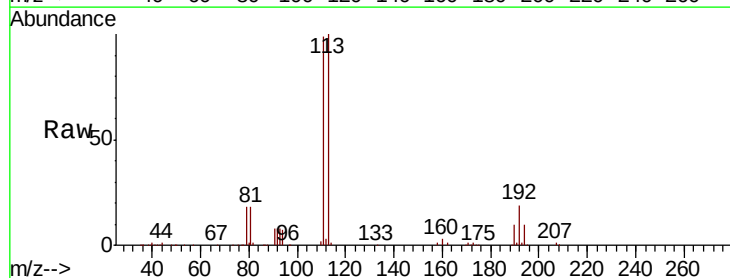
Tgt Ion:113 Resp: 131991

Ion Ratio Lower Upper

113 100

111 101.3 81.8 122.8

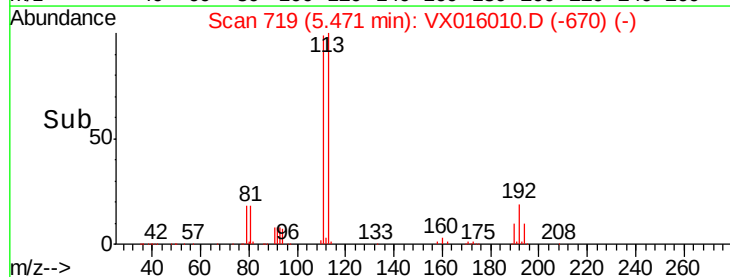
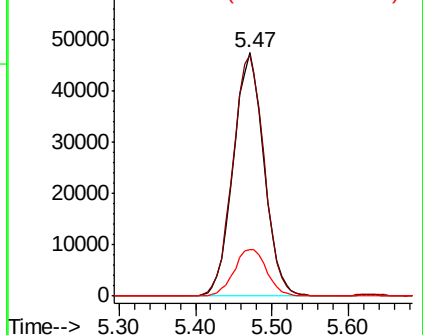
192 20.6 16.8 25.2

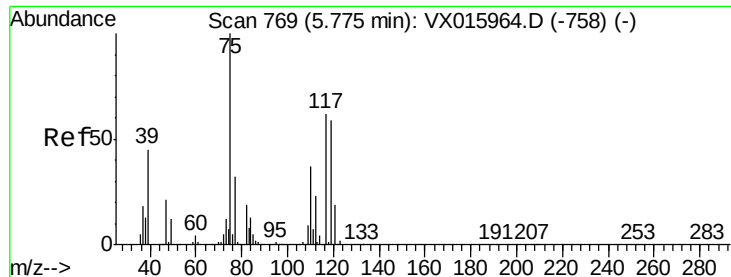


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

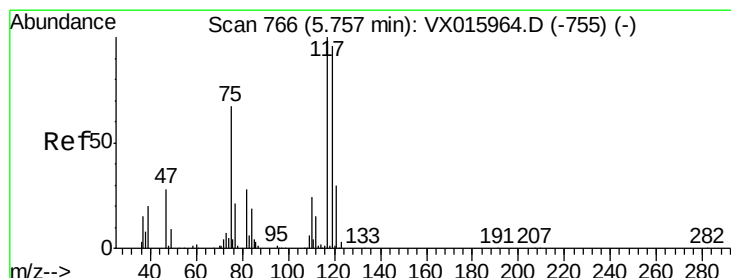
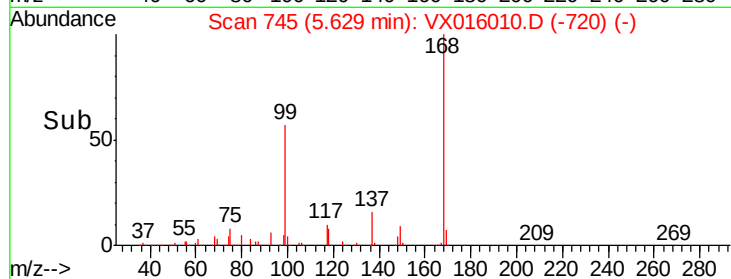
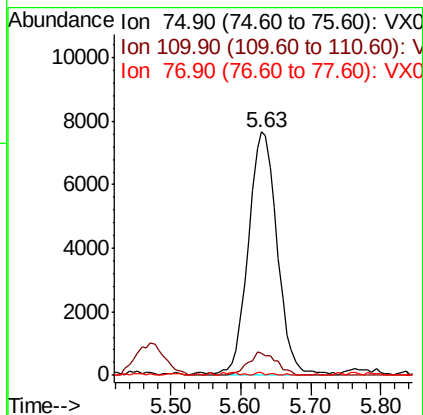
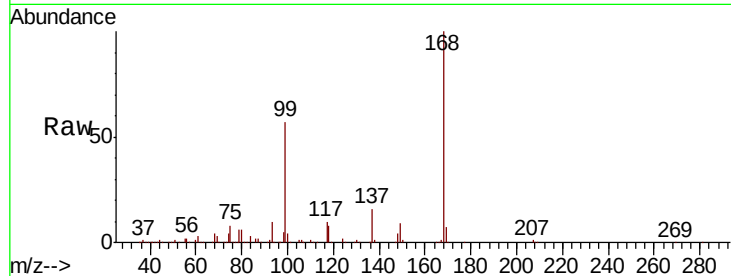




#36
 1,1-Dichloropropene
 Concen: 5.190 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.15 min
 Lab File: VX016010.D
 Acq: 01 May 2020 14:46

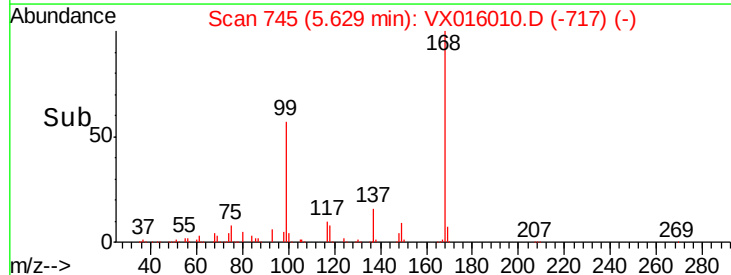
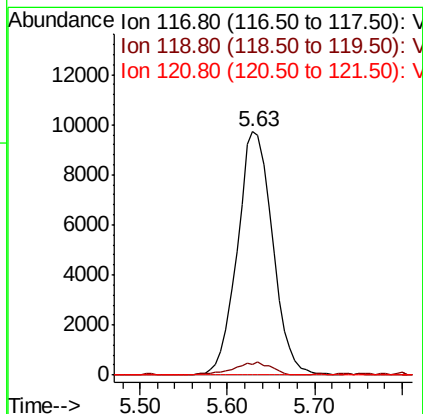
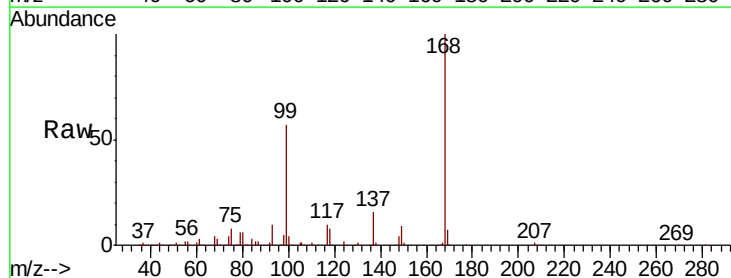
Instrument :
 MSVOA_X
 ClientSampleId :

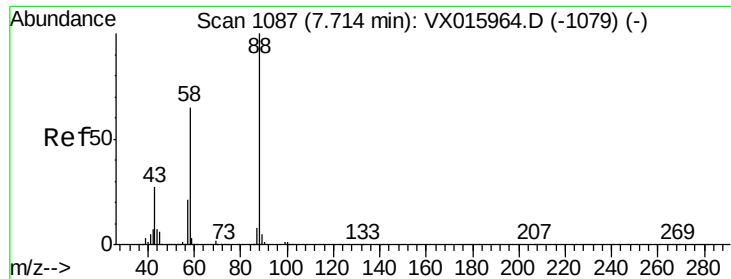
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.1	17.9	53.7#
77	0.5	25.2	37.8#



#38
 Carbon Tetrachloride
 Concen: 6.056 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX016010.D
 Acq: 01 May 2020 14:46

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.5	76.2	114.4#
121	0.0	24.2	36.4#

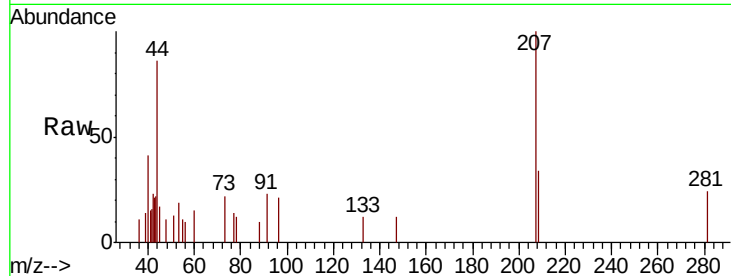




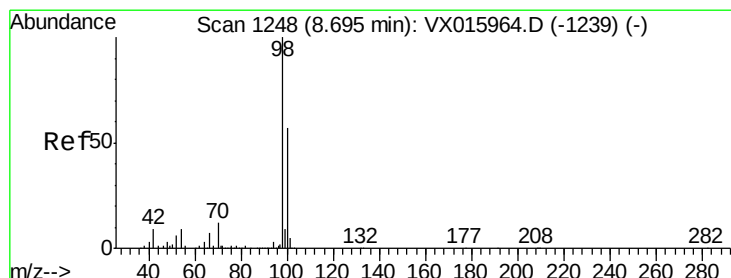
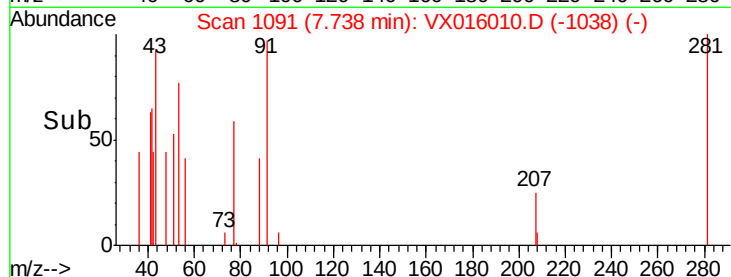
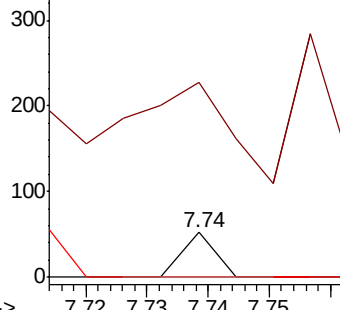
#49
1,4-Dioxane
Concen: 0.216 ug/l
RT: 7.74 min Scan# 1091
Delta R.T. 0.02 min
Lab File: VX016010.D
Acq: 01 May 2020 14:46

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 1115.8 26.6 39.8#
58 0.0 54.8 82.2#

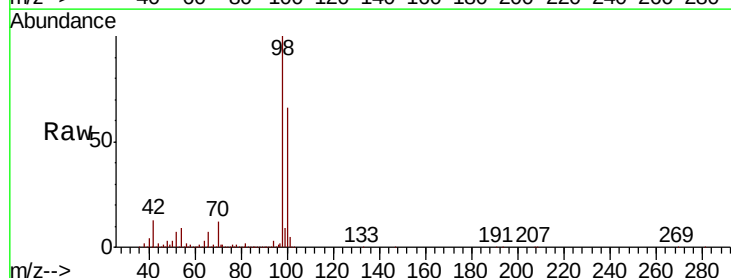


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

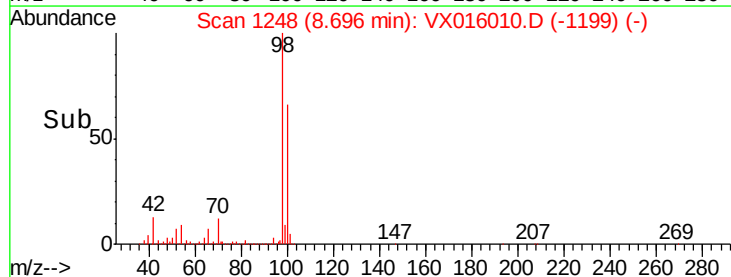
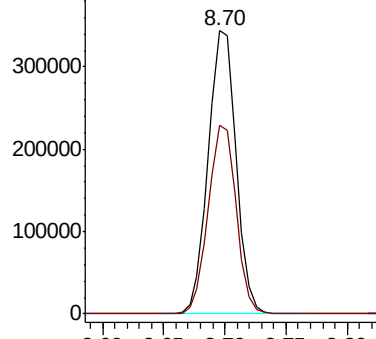


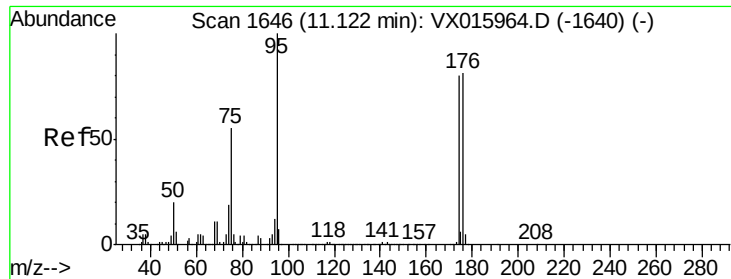
#50
Toluene-d8
Concen: 51.986 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX016010.D
Acq: 01 May 2020 14:46

Tgt Ion: 98 Resp: 542263
Ion Ratio Lower Upper
98 100
100 66.9 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 52.463 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX016010.D

Acq: 01 May 2020 14:46

Instrument :

MSVOA_X

ClientSampleId :

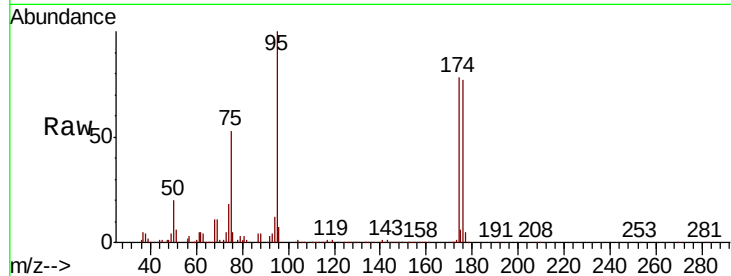
Tot Ion: 95 Resp: 214637

Ion Ratio Lower Upper

95 100

174 80.6 0.0 165.0

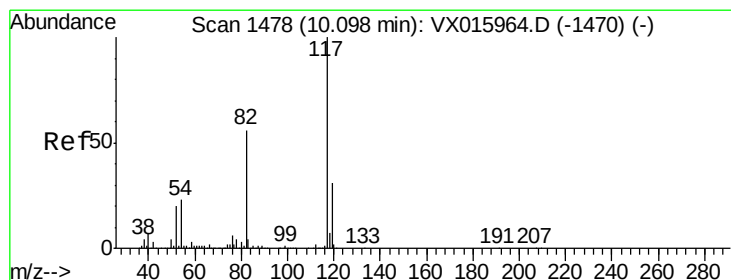
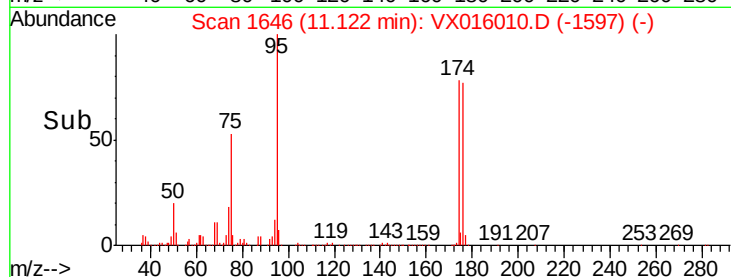
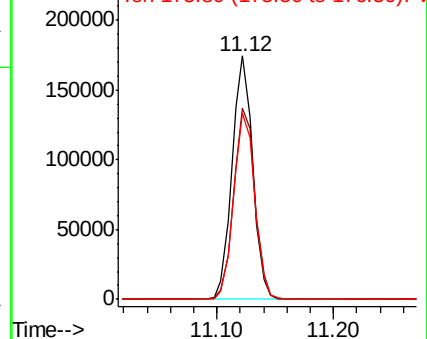
176 78.5 0.0 163.2



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX016010.D

Acq: 01 May 2020 14:46

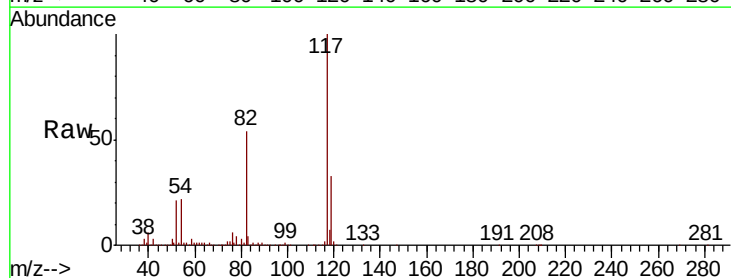
Tgt Ion: 117 Resp: 426808

Ion Ratio Lower Upper

117 100

82 54.4 44.5 66.7

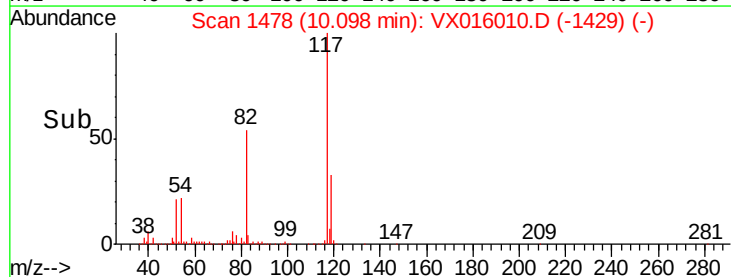
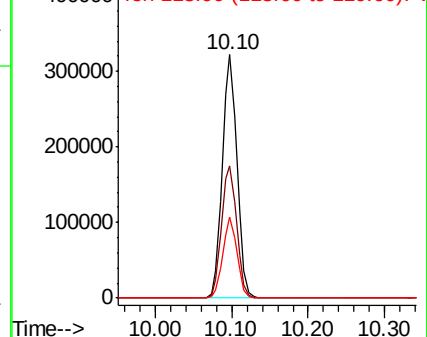
119 33.0 25.0 37.6

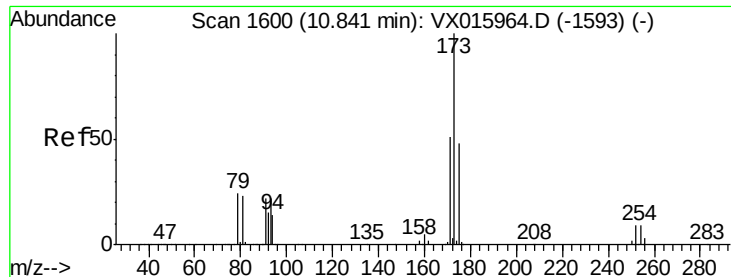


Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0





#71

Bromoform

Concen: 2.680 ug/l

RT: 10.84 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VX016010.D

Acq: 01 May 2020 14:46

Instrument :

MSVOA_X

ClientSampleId :

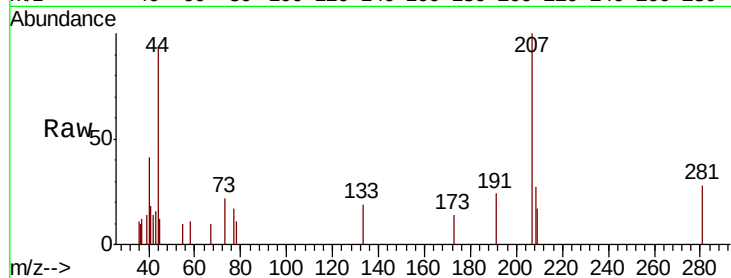
Tot Ion:173 Resp: 48

Ion Ratio Lower Upper

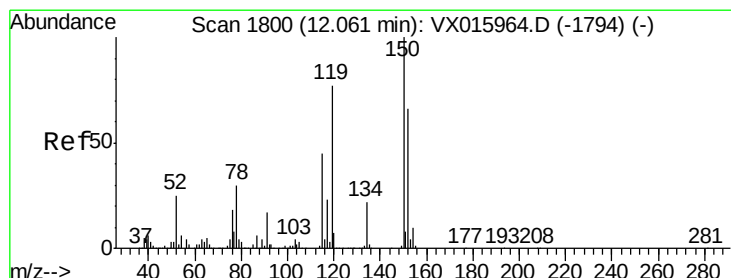
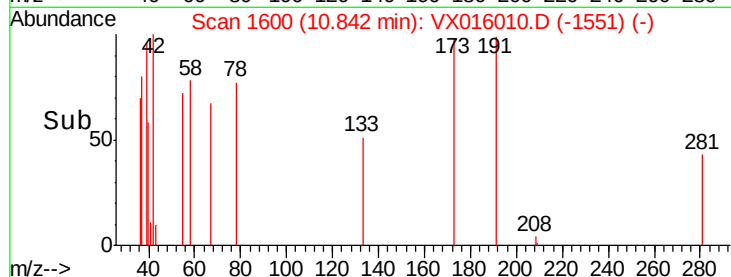
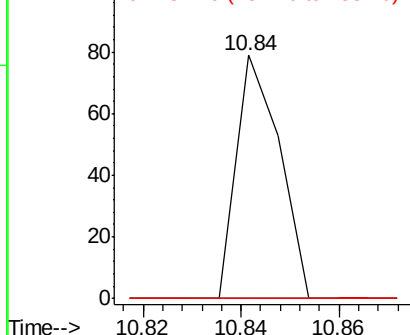
173 100

175 0.0 24.1 72.4#

254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX016010.D

Acq: 01 May 2020 14:46

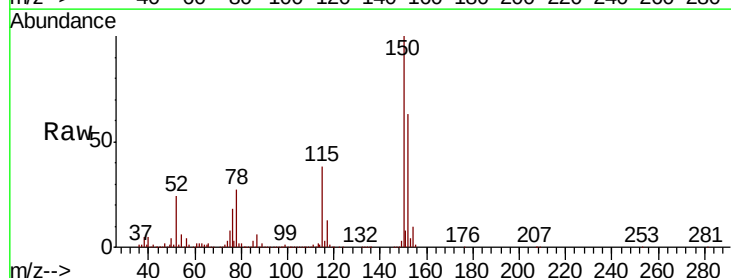
Tgt Ion:152 Resp: 214165

Ion Ratio Lower Upper

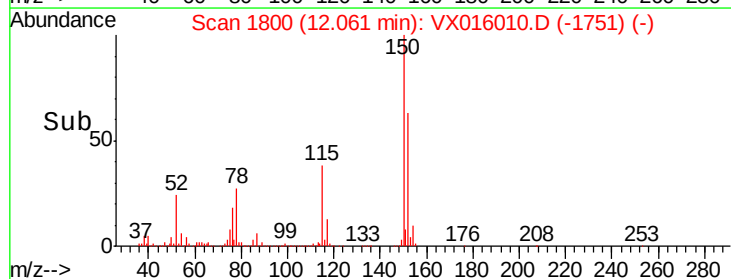
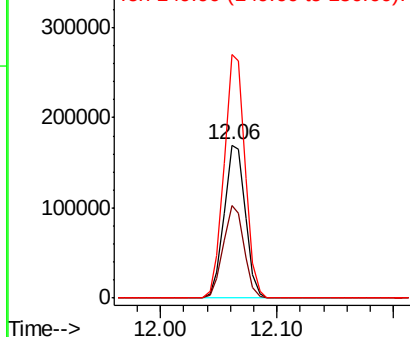
152 100

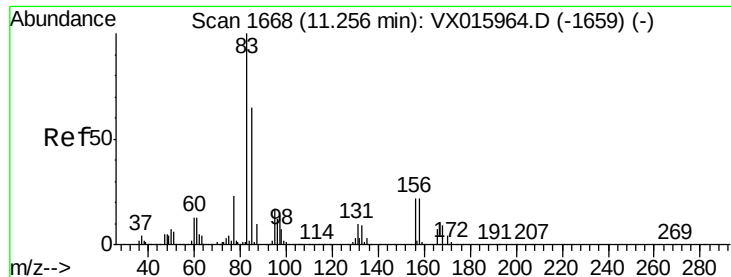
115 59.5 40.9 122.7

150 157.3 0.0 342.4



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: 3.721 ug/l

RT: 11.25 min Scan# 1667

Delta R.T. -0.01 min

Lab File: VX016010.D

Acq: 01 May 2020 14:46

Instrument :

MSVOA_X

ClientSampleId :

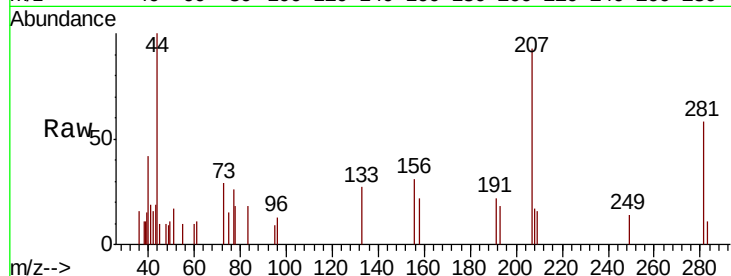
Tot Ion: 83 Resp: 73

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

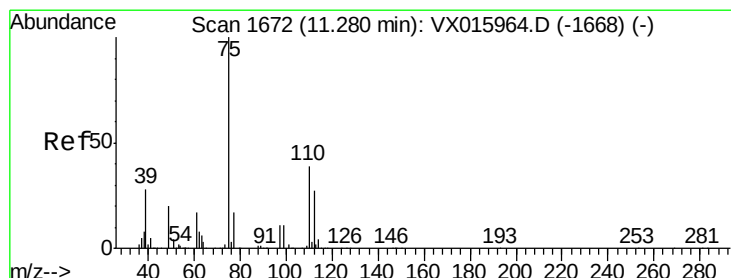
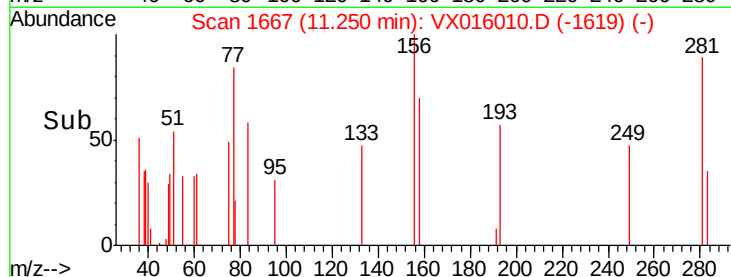
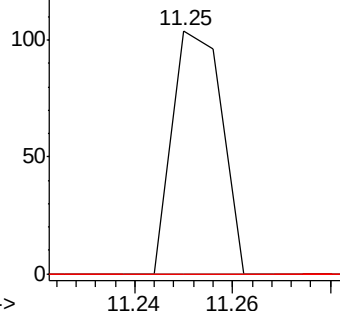
85 0.0 32.2 96.6#



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: 25.287 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016010.D

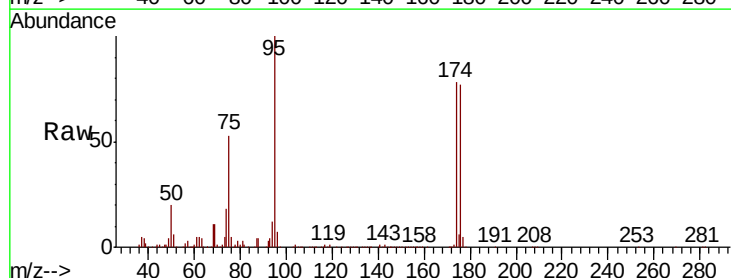
Acq: 01 May 2020 14:46

Tgt Ion: 75 Resp: 113639

Ion Ratio Lower Upper

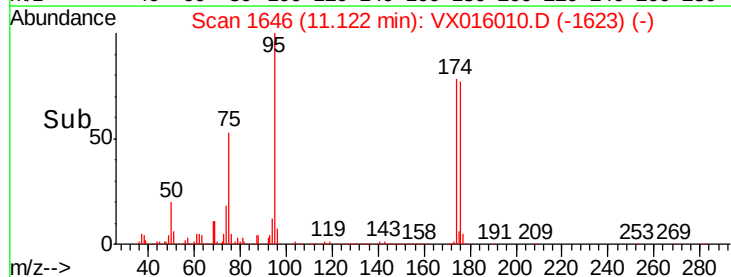
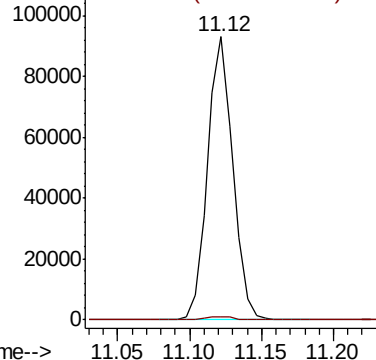
75 100

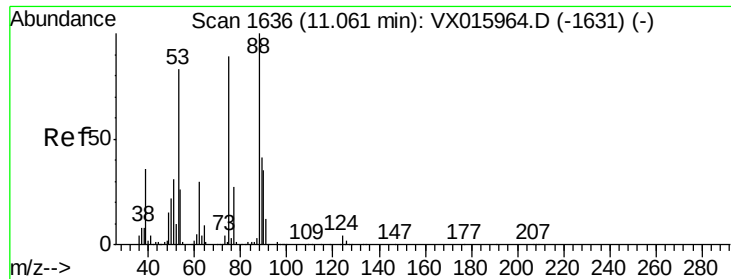
77 1.2 21.6 65.0#



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: 59.758 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016010.D

Acq: 01 May 2020 14:46

Instrument :

MSVOA_X

ClientSampleId :

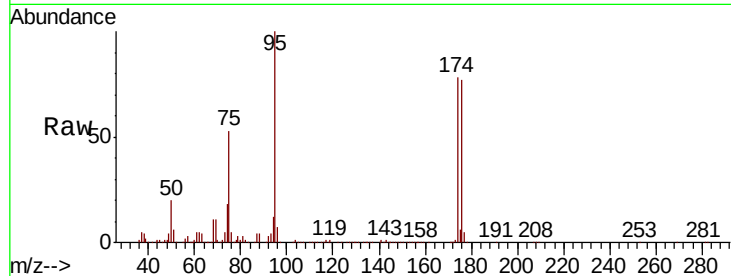
Tot Ion: 75 Resp: 113639

Ion Ratio Lower Upper

75 100

53 0.0 78.3 117.5#

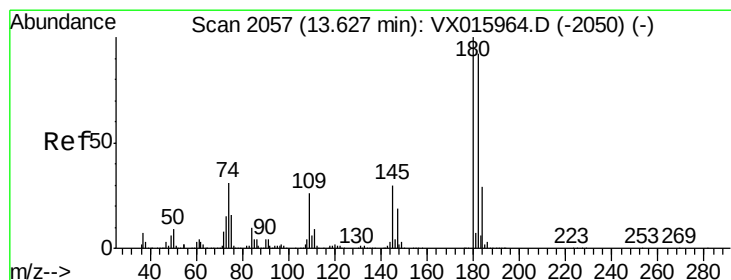
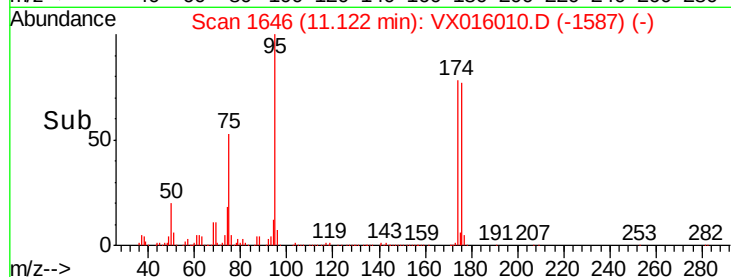
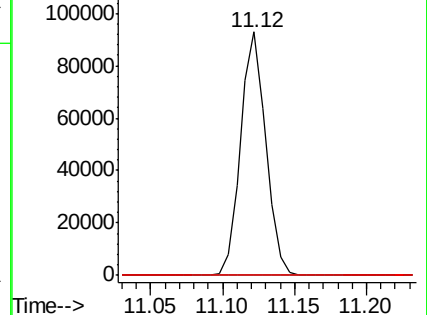
89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#93

1,2,4-Trichlorobenzene

Concen: 0.222 ug/l

RT: 13.63 min Scan# 2058

Delta R.T. 0.01 min

Lab File: VX016010.D

Acq: 01 May 2020 14:46

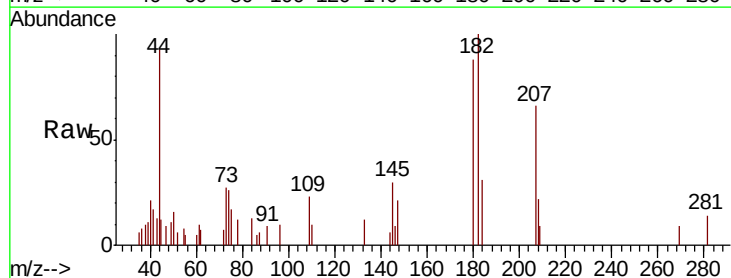
Tgt Ion: 180 Resp: 1088

Ion Ratio Lower Upper

180 100

182 101.8 46.9 140.6

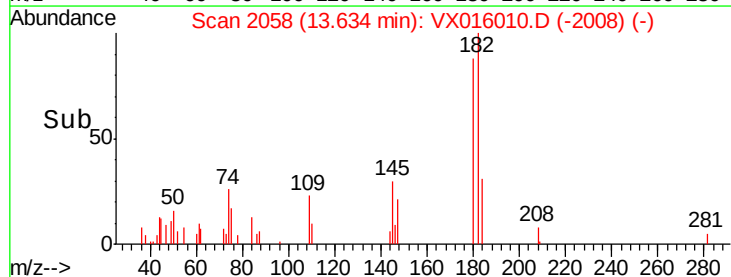
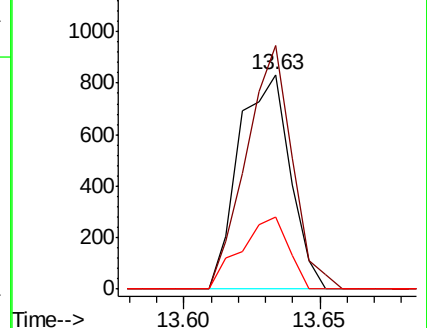
145 31.3 14.7 44.1

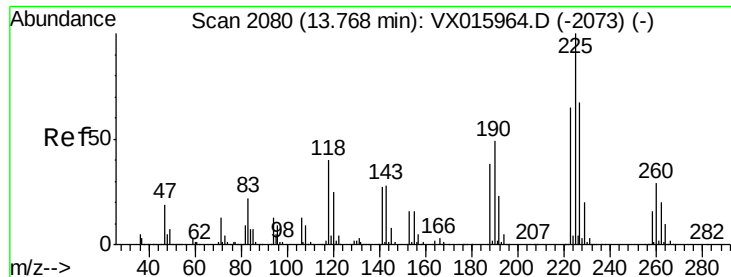


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.215 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX016010.D

Acq: 01 May 2020 14:46

Instrument :

MSVOA_X

ClientSampleId :

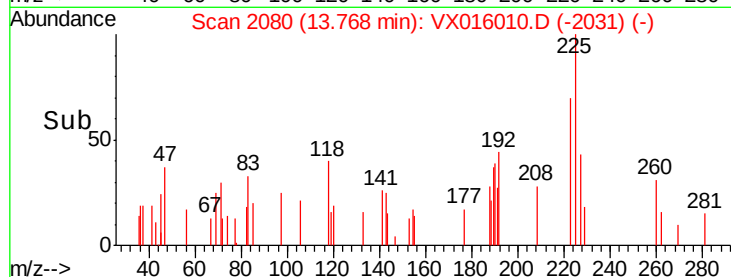
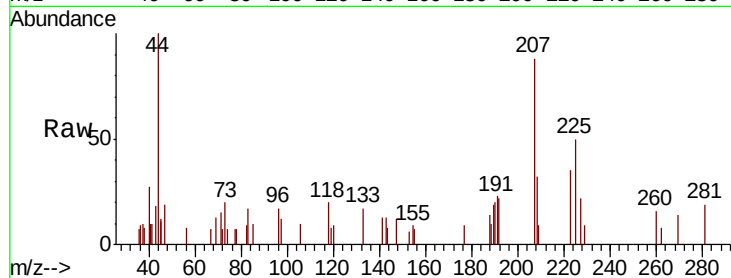
Tot Ion: 225 Resp: 471

Ion Ratio Lower Upper

225 100

223 67.9 32.0 96.0

227 48.8 33.0 99.0



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

