

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082620\
 Data File : VX018082.D
 Acq On : 26 Aug 2020 17:05
 Operator : JC/SP
 Sample : L3784-17
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RO-04

Quant Time: Aug 27 04:06:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 21 03:03:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	442948	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	728688	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	715158	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	336661	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	322622	52.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.94%	
35) Dibromofluoromethane	5.46	113	251185	50.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.22%	
50) Toluene-d8	8.70	98	914398	49.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.94%	
62) 4-Bromofluorobenzene	11.12	95	335822	46.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.36%	

Target Compounds

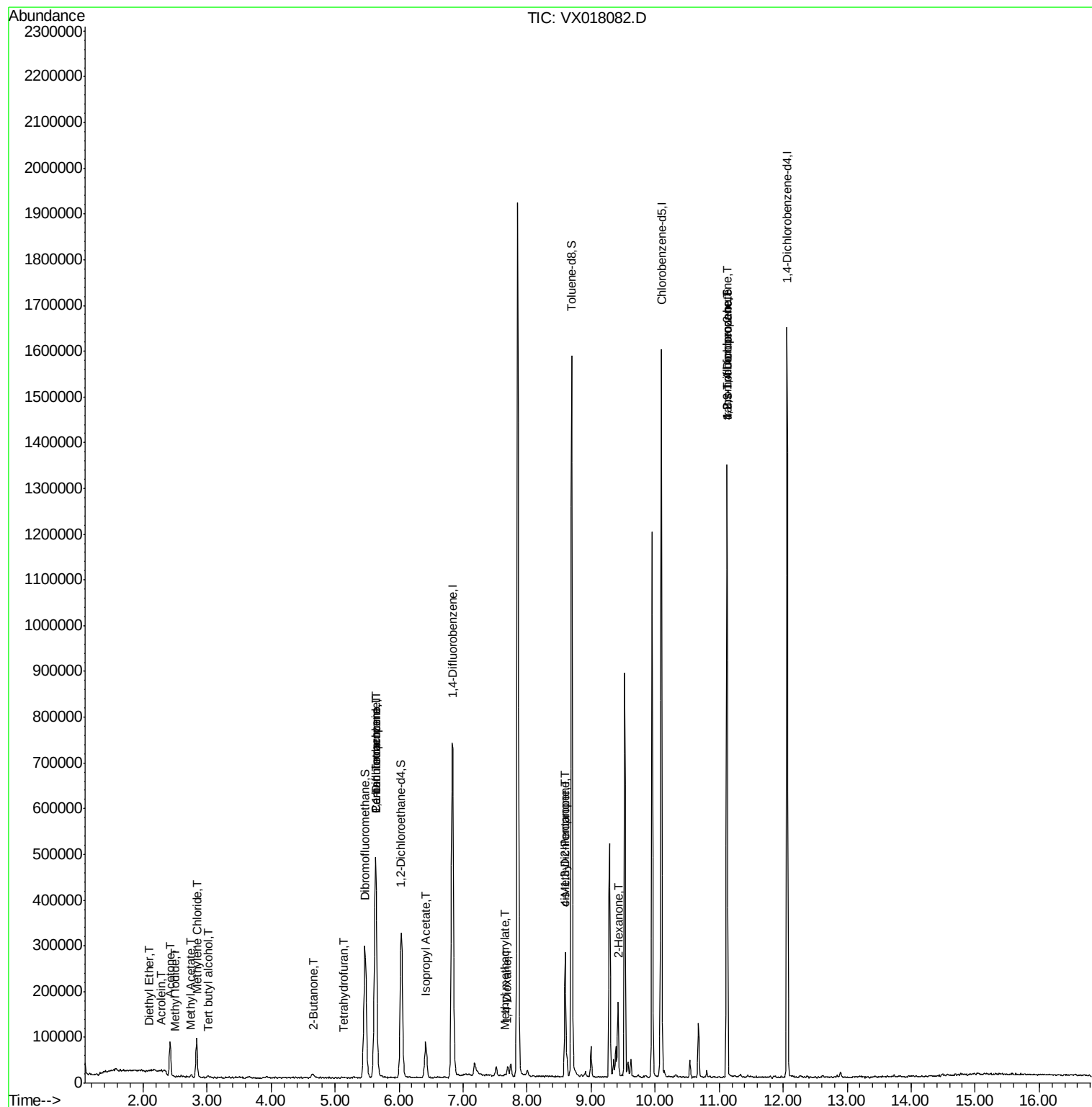
						Qvalue
8) Diethyl Ether	2.09	74	604	0.231	ug/l	84
10) Methyl Iodide	2.50	142	171	5.321	ug/l #	89
11) Tert butyl alcohol	3.01	59	3359	2.809	ug/l #	51
13) Acrolein	2.28	56	694	1.400	ug/l	90
16) Acetone	2.42	43	78569	32.790	ug/l	98
18) Methyl Acetate	2.75	43	7230	1.250	ug/l	94
20) Methylene Chloride	2.84	84	38386	6.827	ug/l	97
25) 2-Butanone	4.65	43	11390	2.892	ug/l	97
29) Tetrahydrofuran	5.12	42	1947	0.777	ug/l #	59
36) 1,1-Dichloropropene	5.63	75	35870	5.337	ug/l #	53
38) Carbon Tetrachloride	5.63	117	46235	6.104	ug/l #	19
43) Isopropyl Acetate	6.42	43	106899	8.479	ug/l #	96
48) Methyl methacrylate	7.66	41	6728	1.072	ug/l #	19
49) 1,4-Dioxane	7.68	88	114	1.003	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	108304	13.906	ug/l #	48
54) cis-1,3-Dichloropropene	8.60	75	45476	5.183	ug/l #	62
59) 2-Hexanone	9.42	43	120809	20.400	ug/l #	25
76) 1,2,3-Trichloropropane	11.12	75	171130	22.850	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	171130	61.715	ug/l #	12

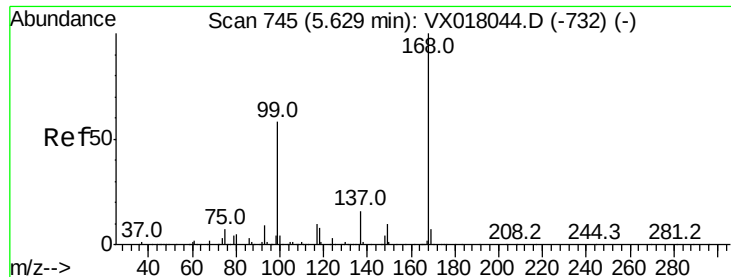
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Aug 21 03:03:56 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: VX018082.D

Acq: 26 Aug 2020 17:05

Instrument :

MSVOA_X

ClientSampleId :

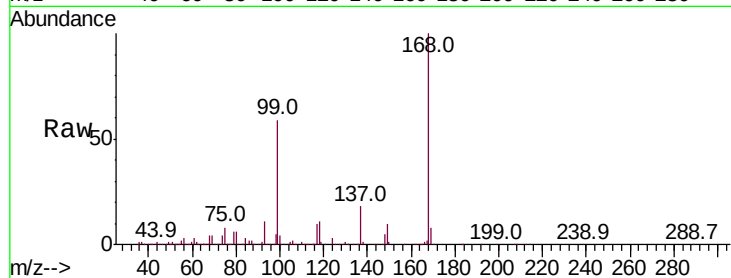
RO-04

Tot Ion:168 Resp: 442948

Ion Ratio Lower Upper

168 100

99 59.1 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): VX018044.D (-732) (-)

Ion 98.90 (98.60 to 99.60): VX018044.D (-732) (-)

5.64

150000

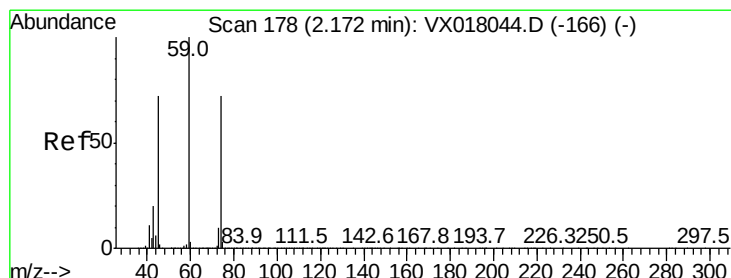
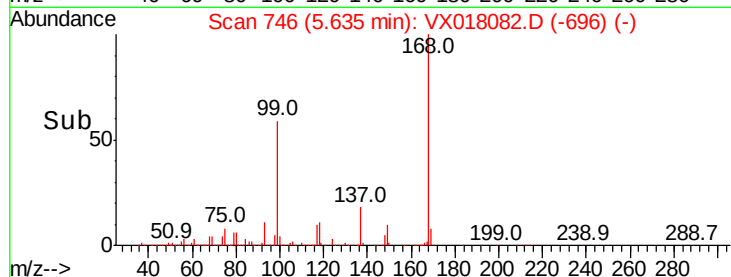
100000

50000

0

5.50 5.60 5.70

Time-->



#8

Diethyl Ether

Concen: 0.231 ug/l

RT: 2.09 min Scan# 165

Delta R.T. -0.08 min

Lab File: VX018082.D

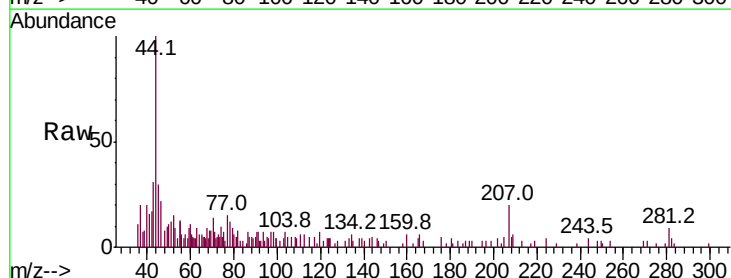
Acq: 26 Aug 2020 17:05

Tgt Ion: 74 Resp: 604

Ion Ratio Lower Upper

74 100

45 117.4 50.7 152.3



Abundance Ion 74.00 (73.70 to 74.70): VX018044.D (-166) (-)

Ion 45.00 (44.70 to 45.70): VX018044.D (-166) (-)

2.09

1200

1000

800

600

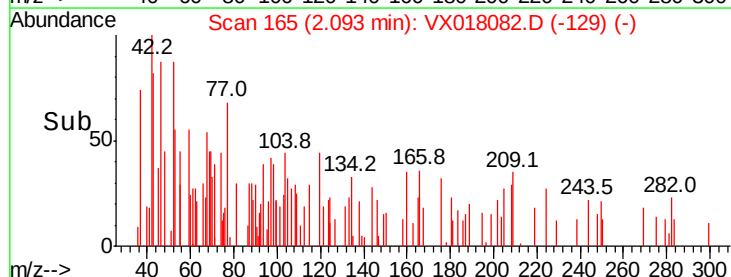
400

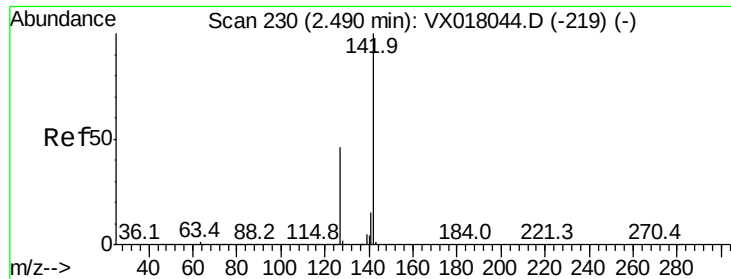
200

0

2.06 2.08 2.10 2.12

Time-->

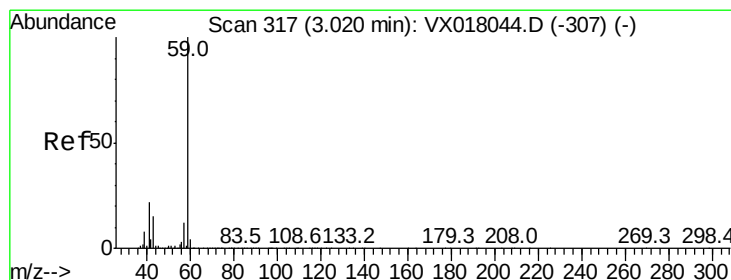
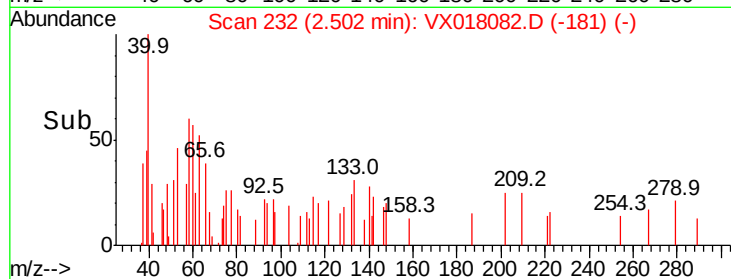
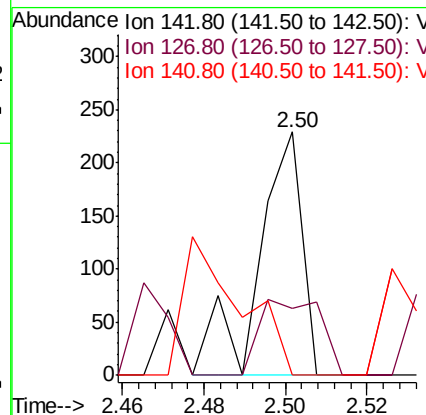
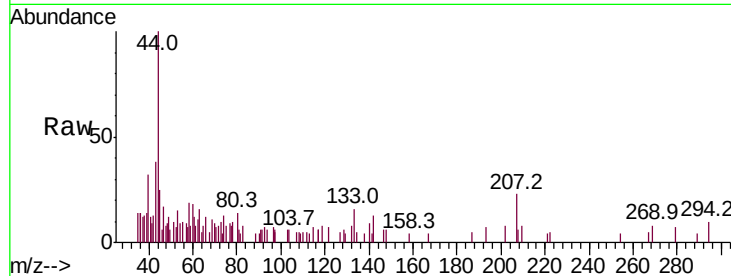




#10
Methvl Iodide
Concen: 5.321 ug/l
RT: 2.50 min Scan# 232
Delta R.T. 0.01 min
Lab File: VX018082.D
Acq: 26 Aug 2020 17:05

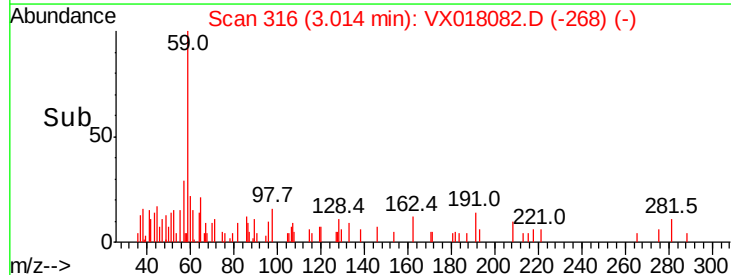
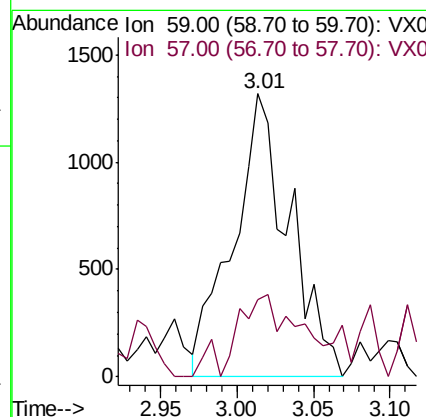
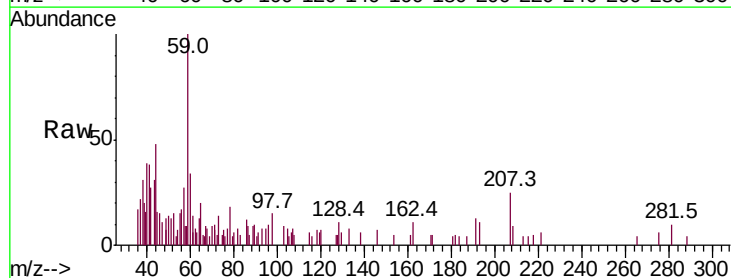
Instrument :
MSVOA_X
ClientSampled :
RO-04

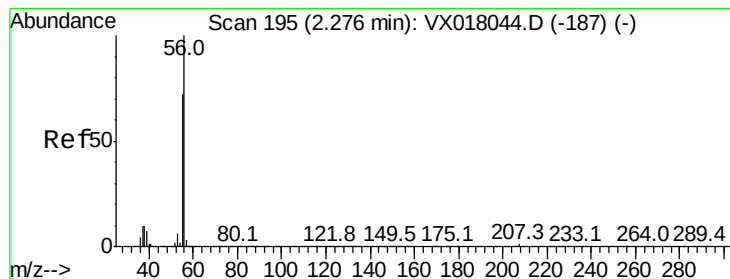
Tot Ion:142 Resp: 171
Ion Ratio Lower Upper
142 100
127 43.9 37.0 55.6
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 2.809 ug/l
RT: 3.01 min Scan# 316
Delta R.T. -0.01 min
Lab File: VX018082.D
Acq: 26 Aug 2020 17:05

Tgt Ion: 59 Resp: 3359
Ion Ratio Lower Upper
59 100
57 29.7 8.9 13.3#





#13

Acrolein

Concen: 1.400 ug/l

RT: 2.28 min Scan# 195

Delta R.T. -0.00 min

Lab File: VX018082.D

Acq: 26 Aug 2020 17:05

Instrument :

MSVOA_X

ClientSampleId :

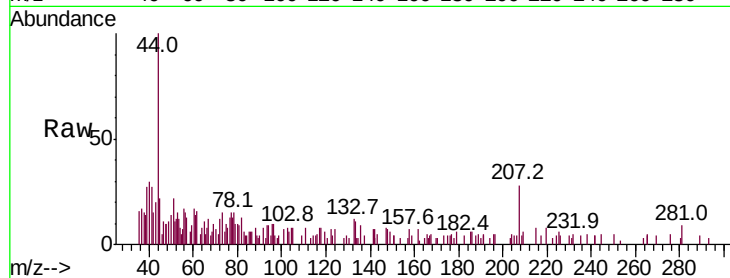
RO-04

Tot Ion: 56 Resp: 694

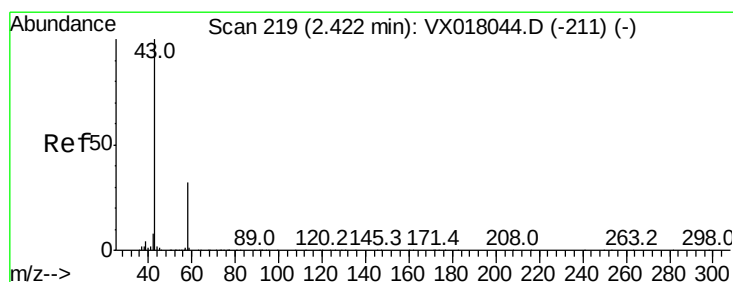
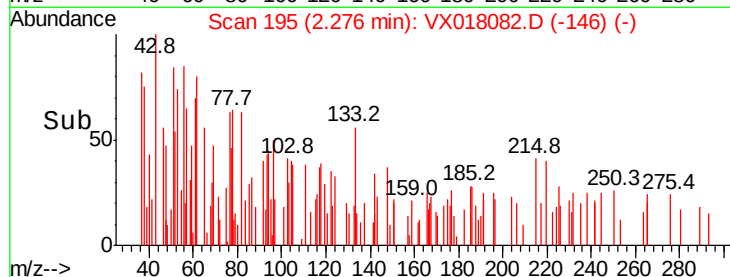
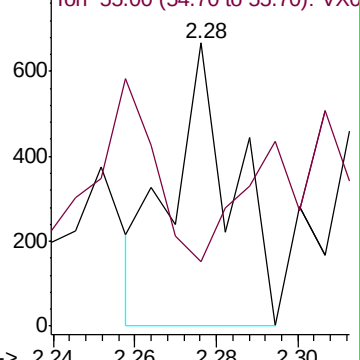
Ion Ratio Lower Upper

56 100

55 63.1 57.0 85.6



Abundance Ion 56.00 (55.70 to 56.70): VX0



#16

Acetone

Concen: 32.790 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX018082.D

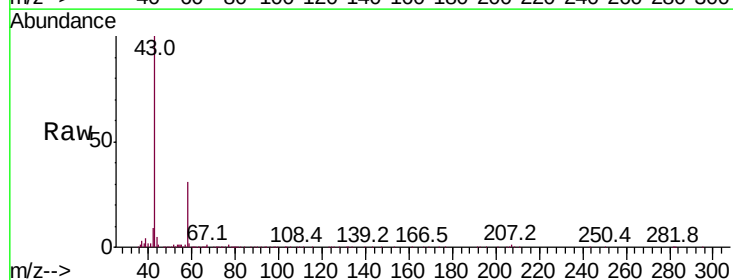
Acq: 26 Aug 2020 17:05

Tgt Ion: 43 Resp: 78569

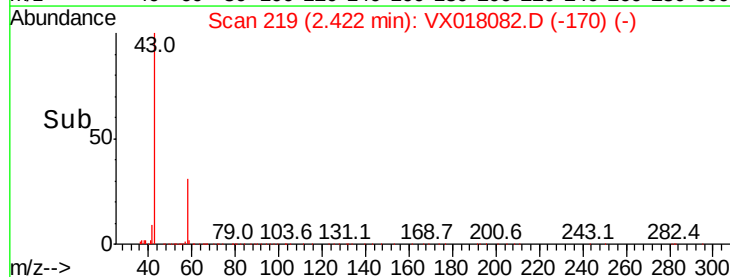
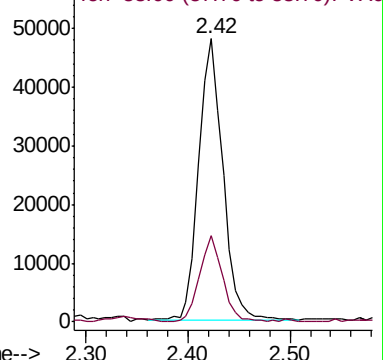
Ion Ratio Lower Upper

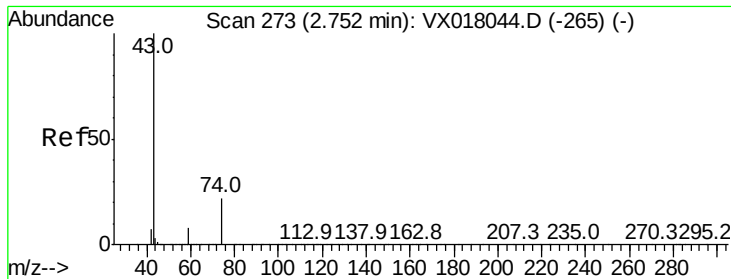
43 100

58 30.5 25.5 38.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

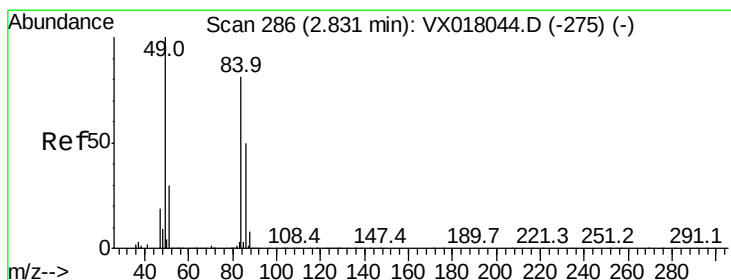
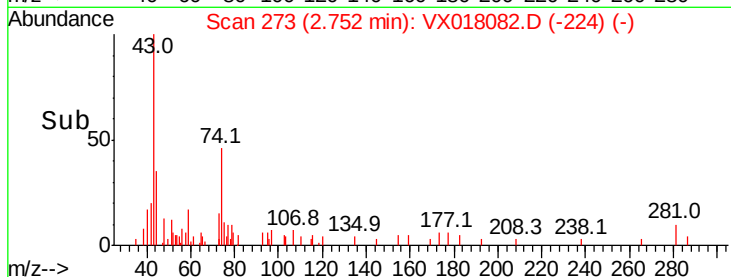
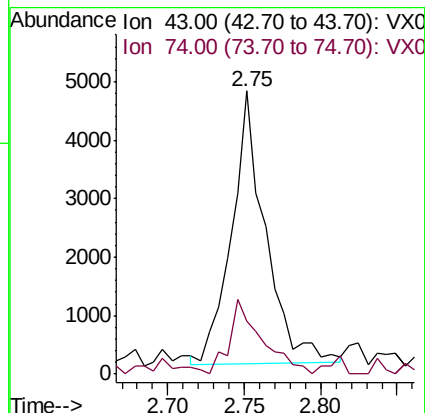
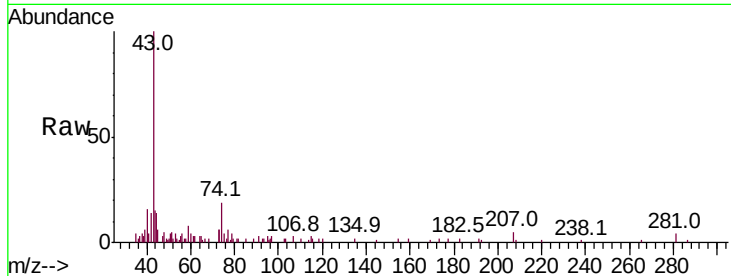




#18
Methvl Acetate
Concen: 1.250 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX018082.D
Acq: 26 Aug 2020 17:05

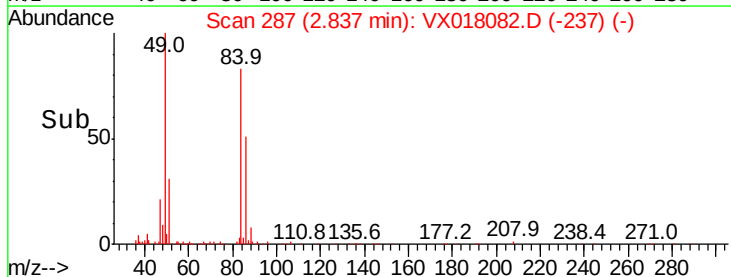
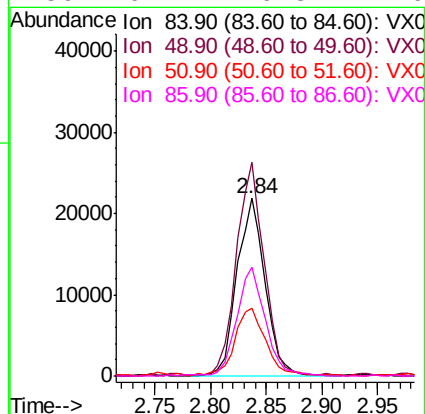
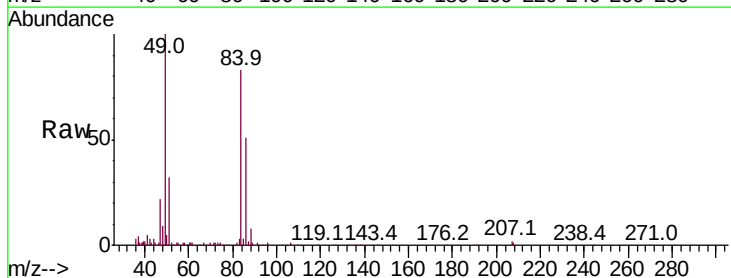
Instrument :
MSVOA_X
ClientSampled :
RO-04

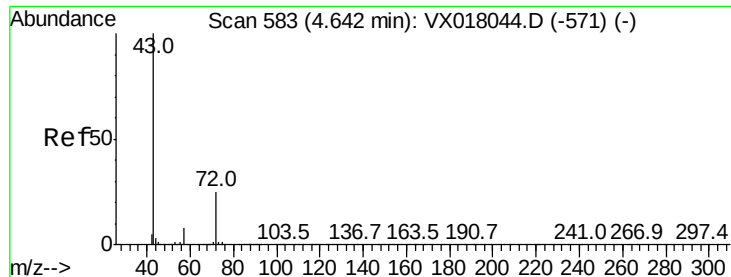
Tot Ion: 43 Resp: 7230
Ion Ratio Lower Upper
43 100
74 25.9 18.2 27.4



#20
Methylene Chloride
Concen: 6.827 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX018082.D
Acq: 26 Aug 2020 17:05

Tgt Ion: 84 Resp: 38386
Ion Ratio Lower Upper
84 100
49 119.6 98.6 148.0
51 38.4 29.6 44.4
86 61.1 49.8 74.6





#25

2-Butanone

Concen: 2.892 ug/l

RT: 4.65 min Scan# 585

Delta R.T. 0.01 min

Lab File: VX018082.D

Acq: 26 Aug 2020 17:05

Instrument :

MSVOA_X

ClientSampled :

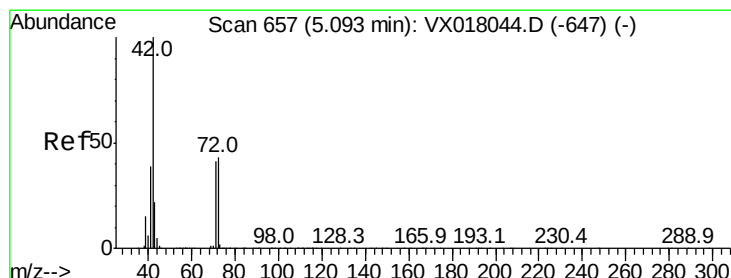
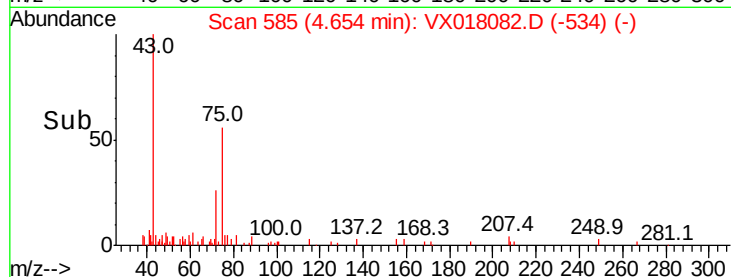
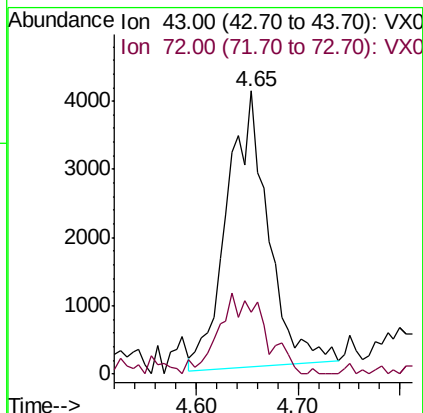
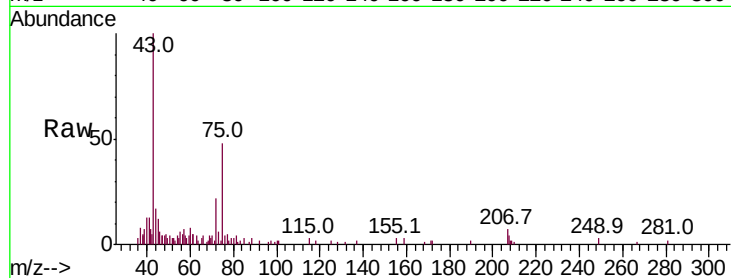
RO-04

Tot Ion: 43 Resp: 11390

Ion Ratio Lower Upper

43 100

72 23.1 19.8 29.6



#29

Tetrahydrofuran

Concen: 0.777 ug/l

RT: 5.12 min Scan# 662

Delta R.T. 0.03 min

Lab File: VX018082.D

Acq: 26 Aug 2020 17:05

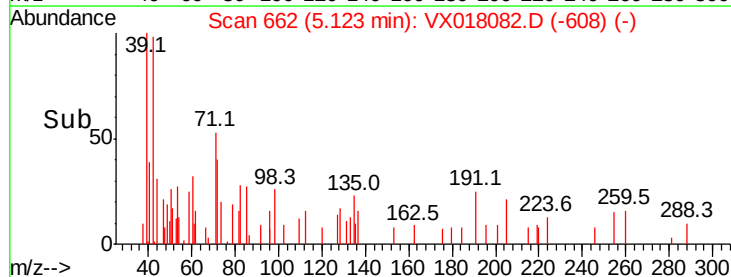
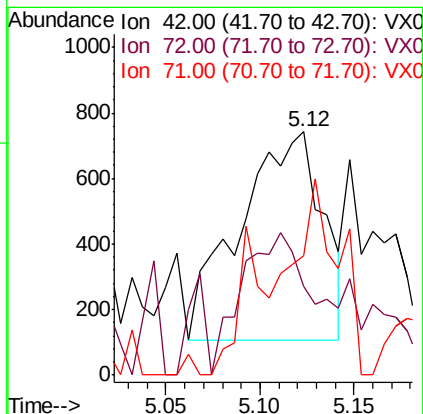
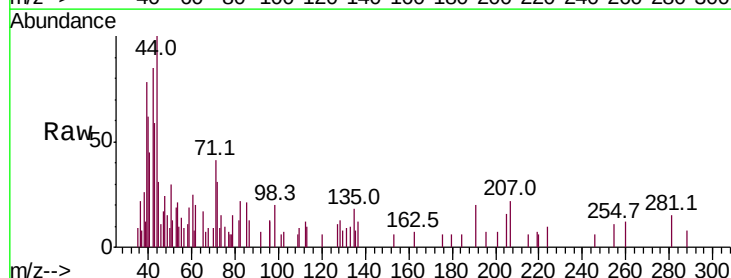
Tgt Ion: 42 Resp: 1947

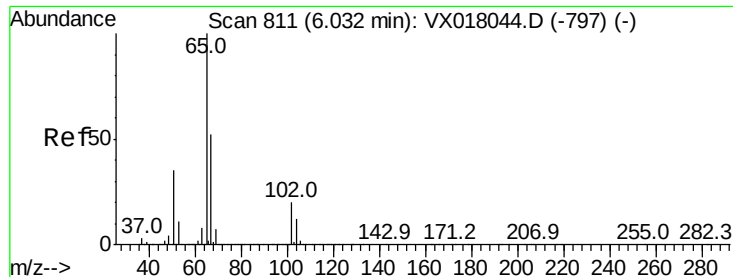
Ion Ratio Lower Upper

42 100

72 82.2 34.2 51.4#

71 51.9 32.1 48.1#





#33

1,2-Dichloroethane-d4

Concen: 52.465 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX018082.D

Acq: 26 Aug 2020 17:05

Instrument :

MSVOA_X

ClientSampled :

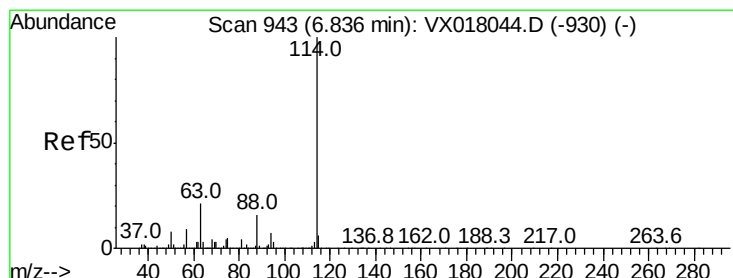
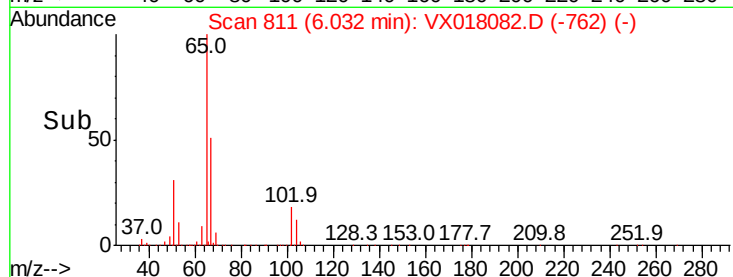
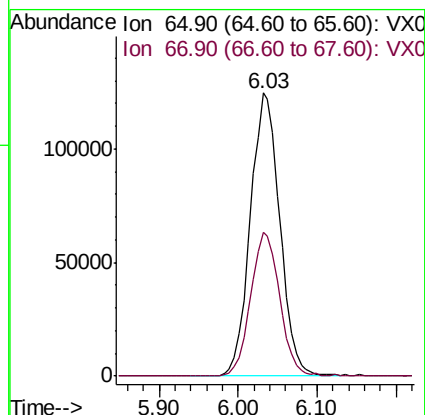
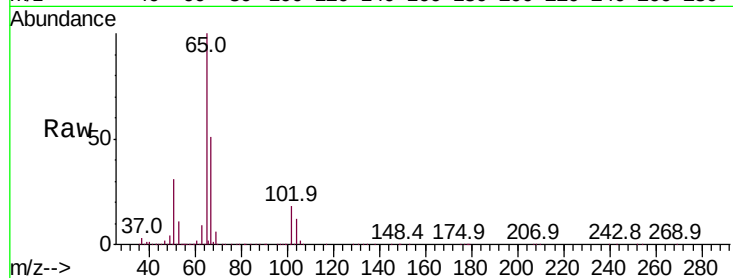
RO-04

Tot Ion: 65 Resp: 322622

Ion Ratio Lower Upper

65 100

67 50.2 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.01 min

Lab File: VX018082.D

Acq: 26 Aug 2020 17:05

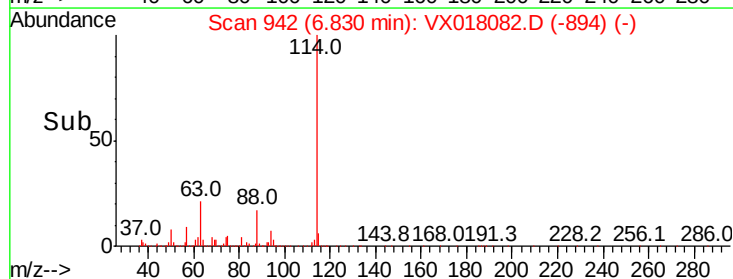
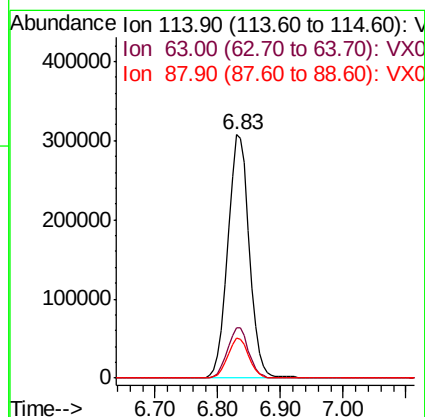
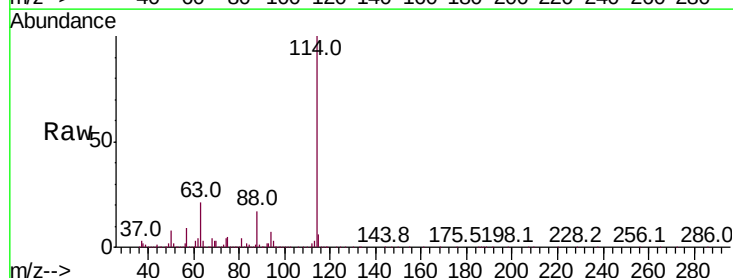
Tgt Ion: 114 Resp: 728688

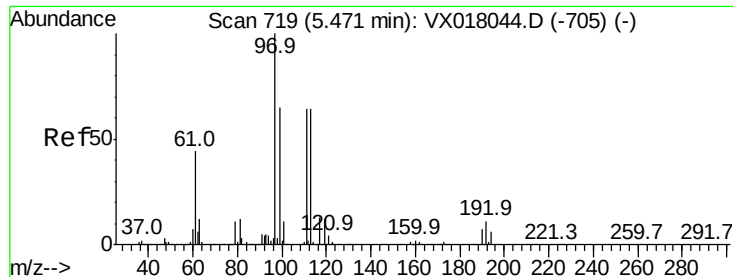
Ion Ratio Lower Upper

114 100

63 20.5 0.0 42.6

88 16.6 0.0 31.8





#35

Dibromofluoromethane

Concen: 50.614 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX018082.D

Acq: 26 Aug 2020 17:05

Instrument :

MSVOA_X

ClientSampled :

RO-04

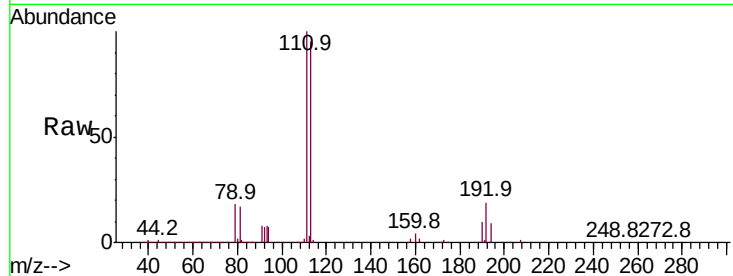
Tot Ion:113 Resp: 251185

Ion Ratio Lower Upper

113 100

111 102.4 81.6 122.4

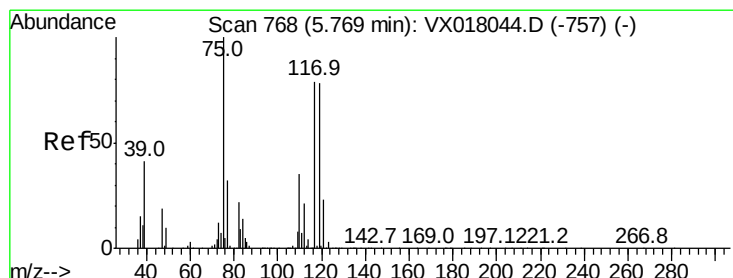
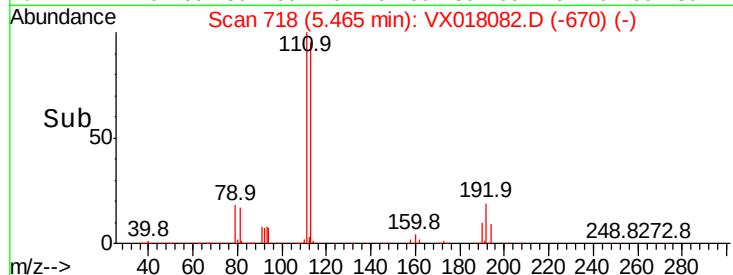
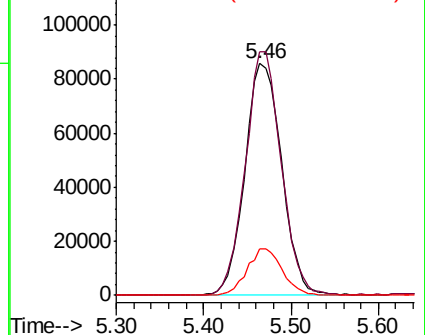
192 19.3 15.8 23.8



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: 5.337 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018082.D

Acq: 26 Aug 2020 17:05

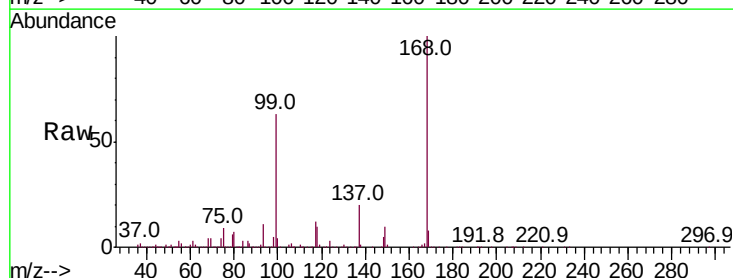
Tgt Ion: 75 Resp: 35870

Ion Ratio Lower Upper

75 100

110 12.8 18.0 54.0#

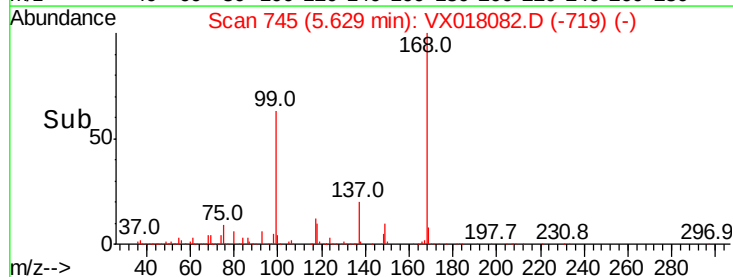
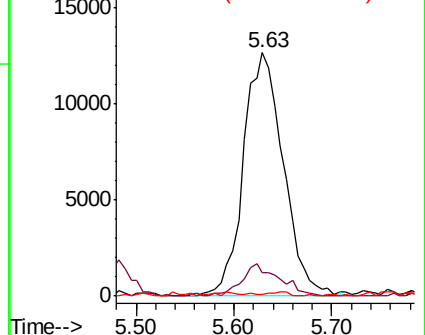
77 0.0 24.4 36.6#

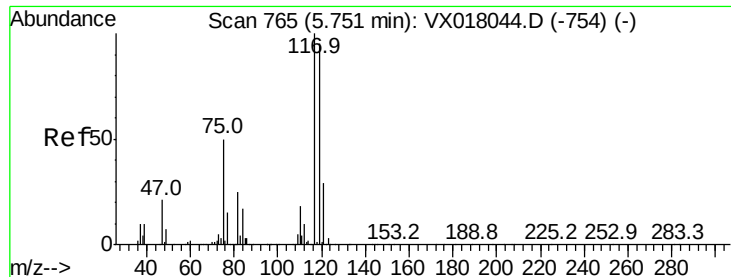


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.104 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX018082.D

Acq: 26 Aug 2020 17:05

Instrument :

MSVOA_X

ClientSampleId :

RO-04

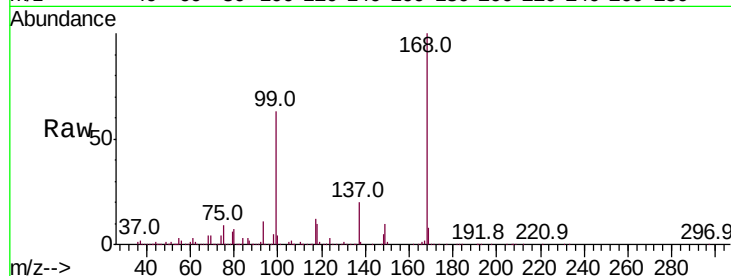
Tot Ion:117 Resp: 46235

Ion Ratio Lower Upper

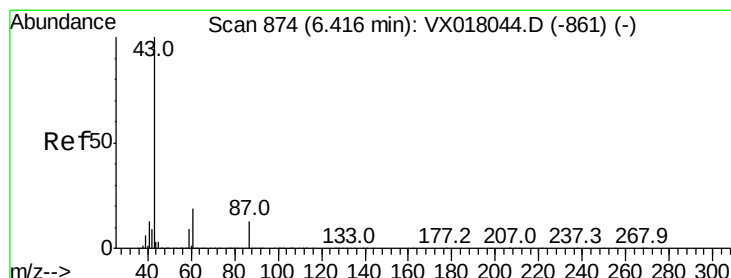
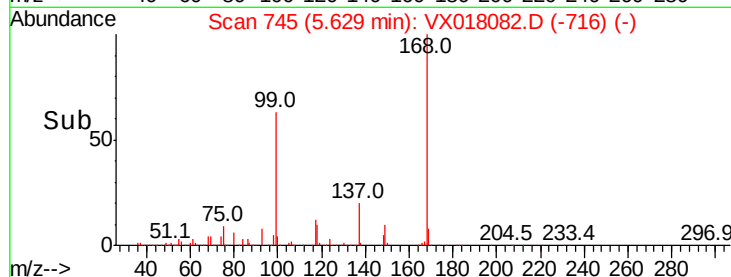
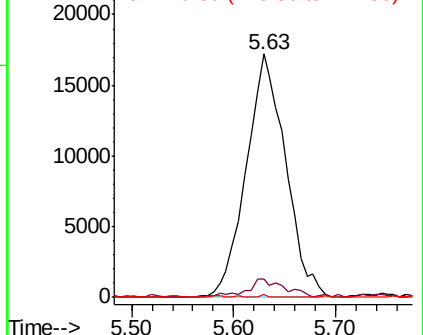
117 100

119 7.6 75.8 113.6#

121 1.2 23.4 35.0#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 8.479 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX018082.D

Acq: 26 Aug 2020 17:05

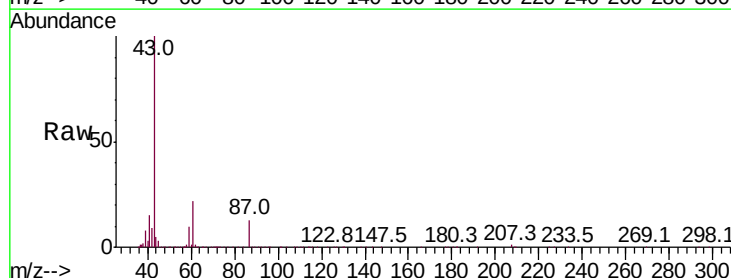
Tgt Ion: 43 Resp: 106899

Ion Ratio Lower Upper

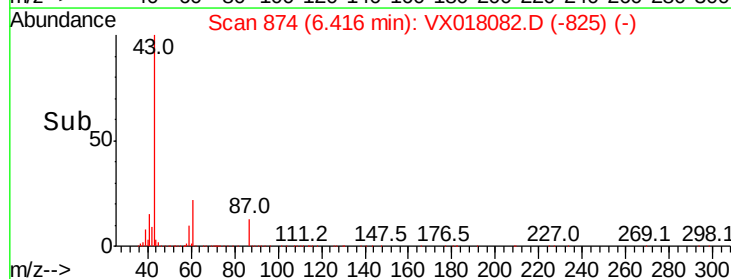
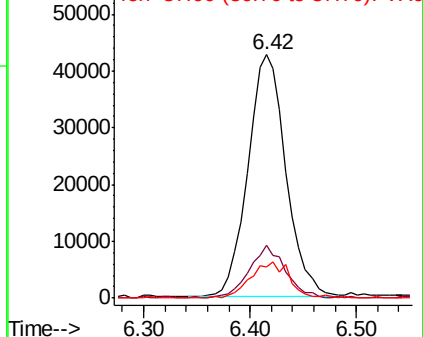
43 100

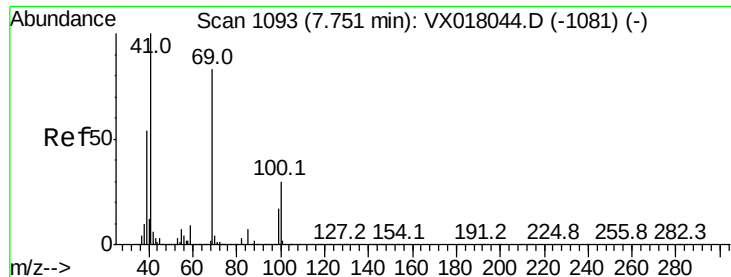
61 20.3 15.7 23.5

87 15.7 10.3 15.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0

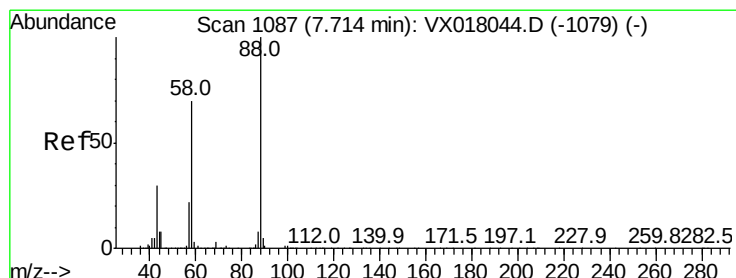
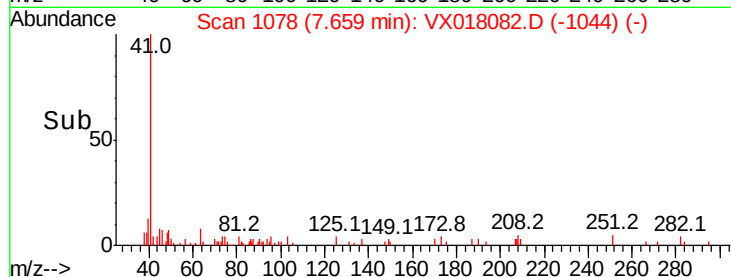
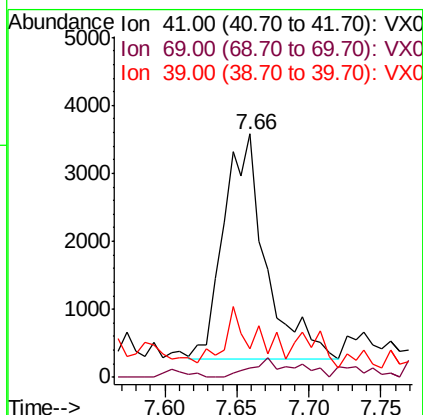
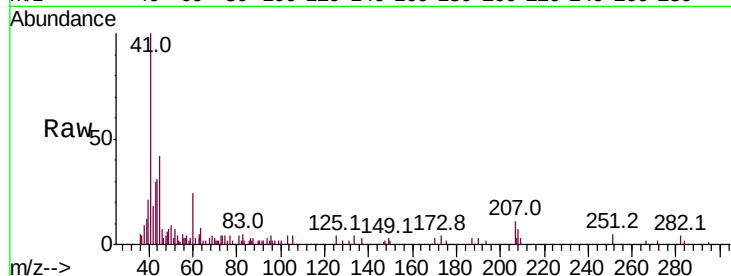




#48
Methvl methacrylate
Concen: 1.072 ug/l
RT: 7.66 min Scan# 1078
Delta R.T. -0.09 min
Lab File: VX018082.D
Acq: 26 Aug 2020 17:05

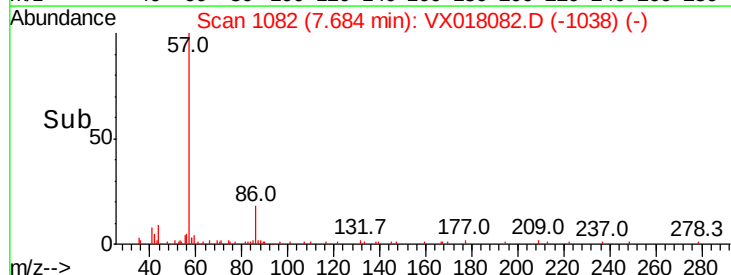
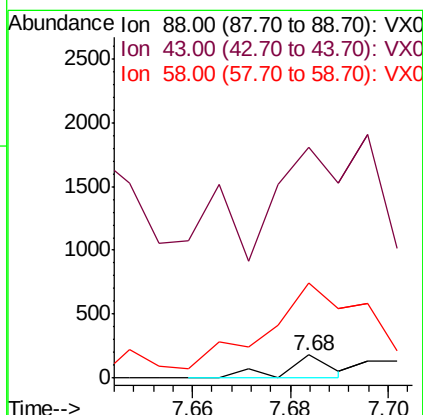
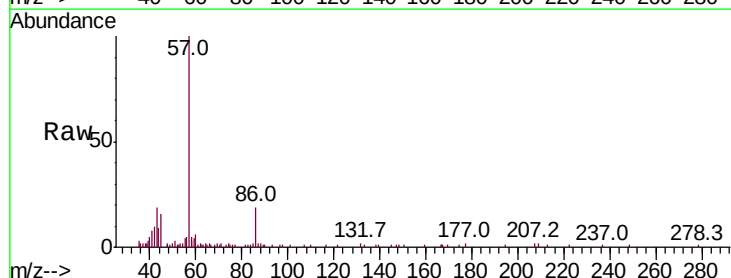
Instrument :
MSVOA_X
ClientSampleId :
RO-04

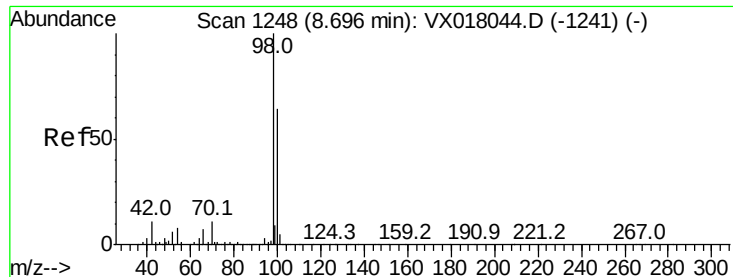
Tot Ion: 41 Resp: 6728
Ion Ratio Lower Upper
41 100
69 6.3 65.5 98.3#
39 0.0 44.5 66.7#



#49
1,4-Dioxane
Concen: 1.003 ug/l
RT: 7.68 min Scan# 1082
Delta R.T. -0.03 min
Lab File: VX018082.D
Acq: 26 Aug 2020 17:05

Tgt Ion: 88 Resp: 114
Ion Ratio Lower Upper
88 100
43 0.0 27.4 41.0#
58 1281.6 56.4 84.6#

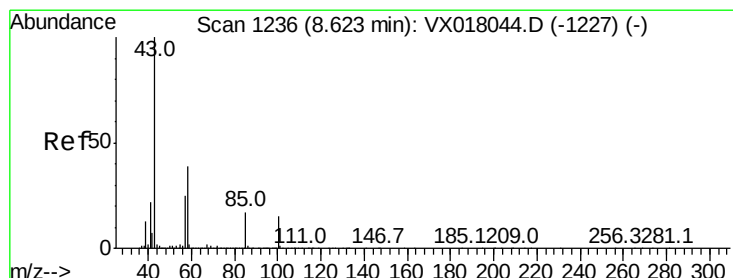
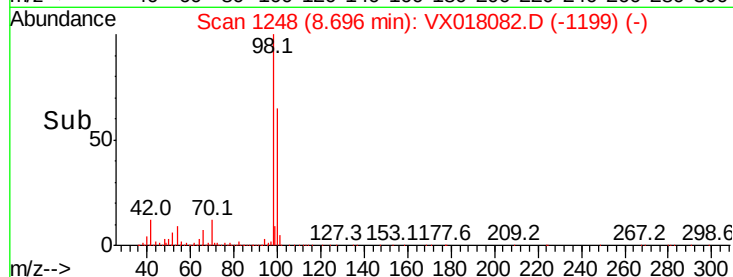
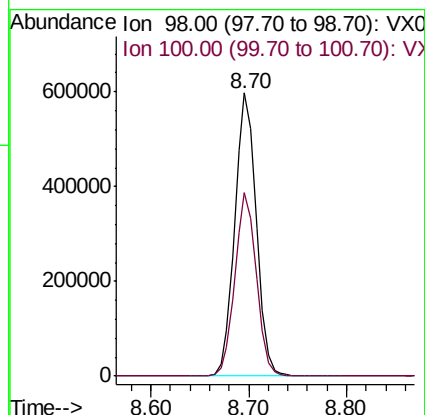
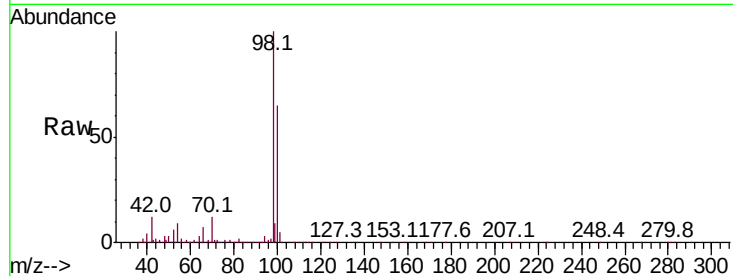




#50
Toluene-d8
Concen: 49.470 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX018082.D
Acq: 26 Aug 2020 17:05

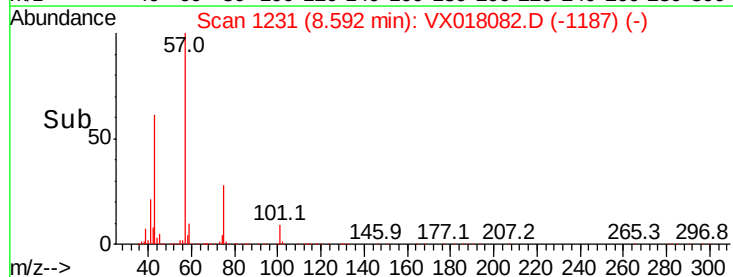
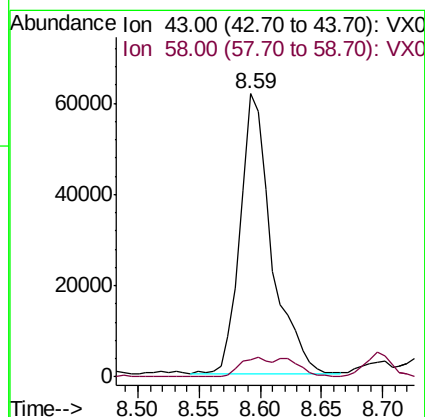
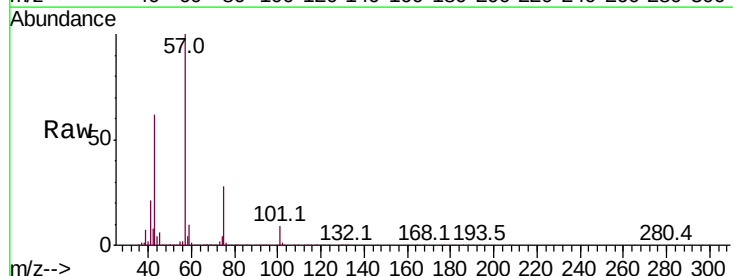
Instrument :
MSVOA_X
ClientSampleId :
RO-04

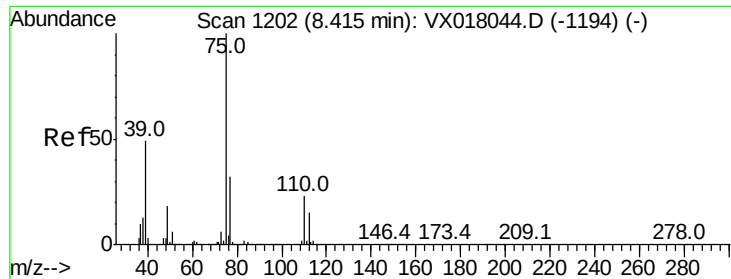
Tot Ion: 98 Resp: 914398
Ion Ratio Lower Upper
98 100
100 64.6 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 13.906 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. -0.03 min
Lab File: VX018082.D
Acq: 26 Aug 2020 17:05

Tgt Ion: 43 Resp: 108304
Ion Ratio Lower Upper
43 100
58 7.1 30.7 46.1#





#54

cis-1,3-Dichloropropene

Concen: 5.183 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX018082.D

Acq: 26 Aug 2020 17:05

Instrument :

MSVOA_X

ClientSampleId :

RO-04

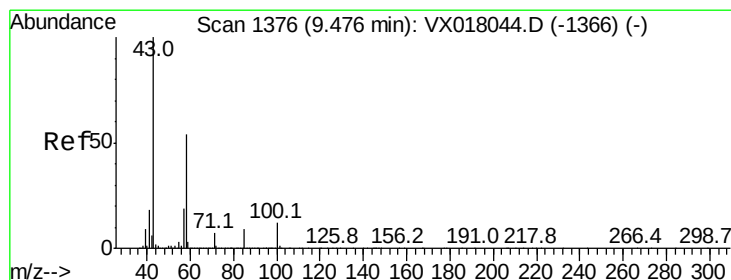
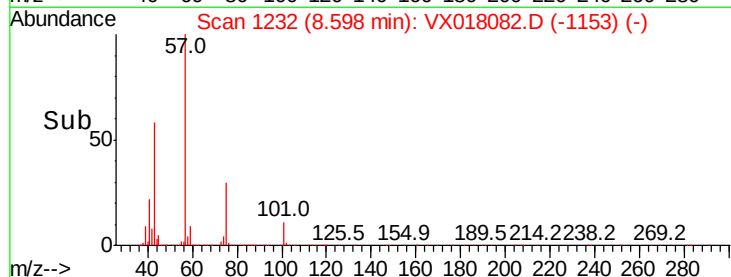
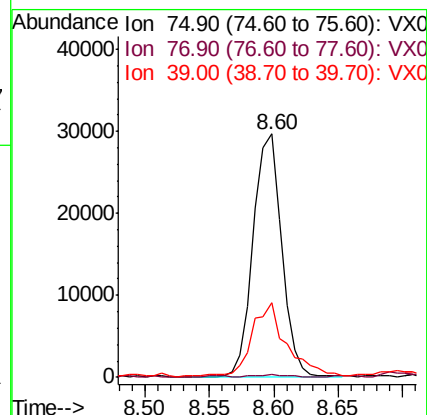
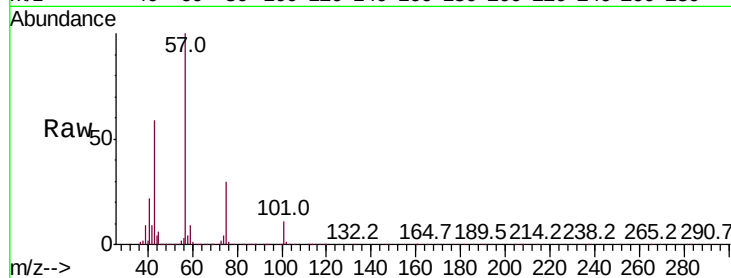
Tot Ion: 75 Resp: 45476

Ion Ratio Lower Upper

75 100

77 1.1 25.8 38.8#

39 30.2 38.8 58.2#



#59

2-Hexanone

Concen: 20.400 ug/l

RT: 9.42 min Scan# 1367

Delta R.T. -0.05 min

Lab File: VX018082.D

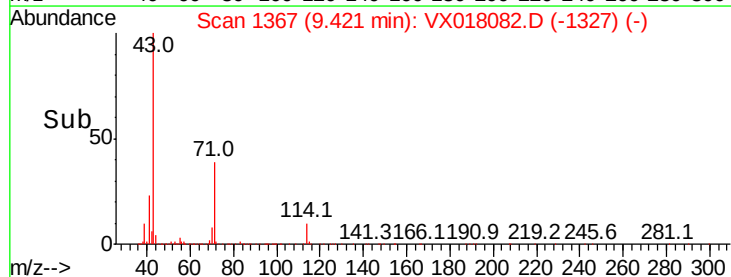
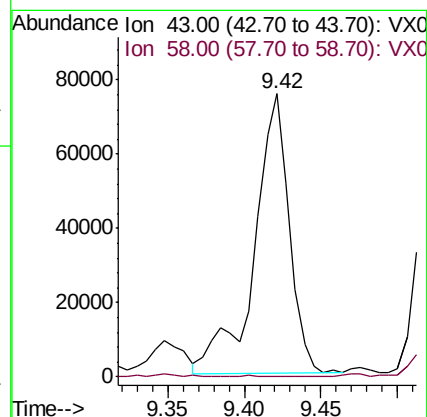
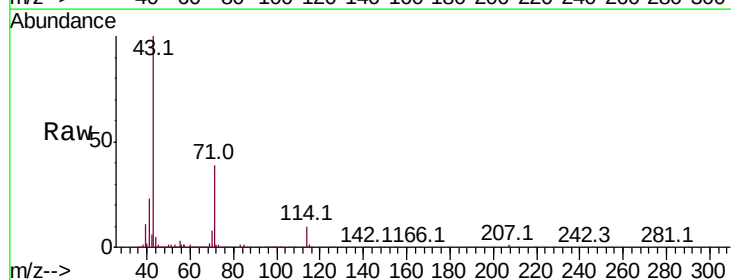
Acq: 26 Aug 2020 17:05

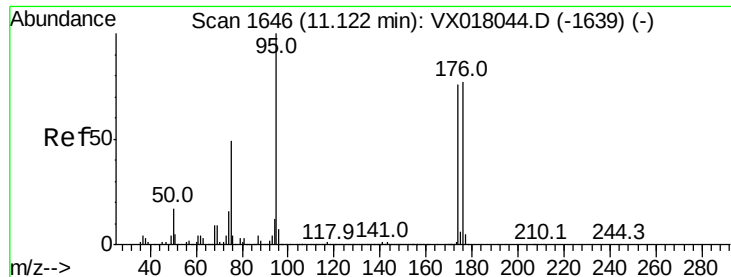
Tgt Ion: 43 Resp: 120809

Ion Ratio Lower Upper

43 100

58 0.0 26.6 79.7#





#62

4-Bromofluorobenzene

Concen: 46.178 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018082.D

Acq: 26 Aug 2020 17:05

Instrument :

MSVOA_X

ClientSampleId :

RO-04

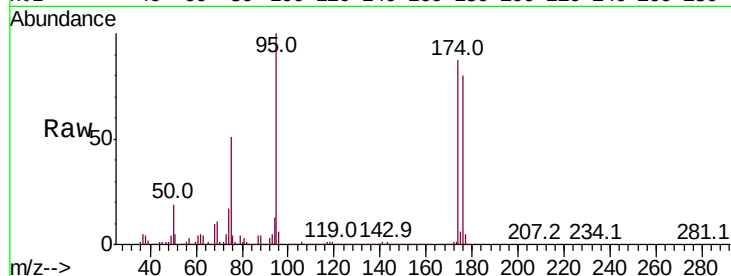
Tot Ion: 95 Resp: 335822

Ion Ratio Lower Upper

95 100

174 82.1 0.0 160.2

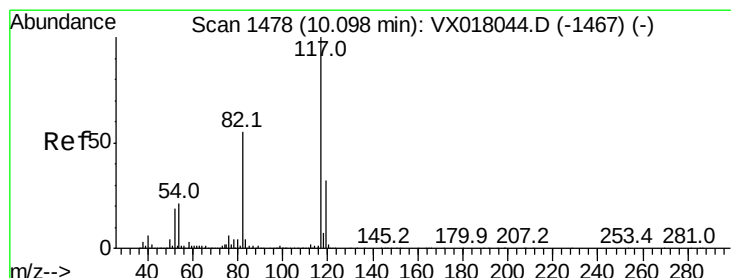
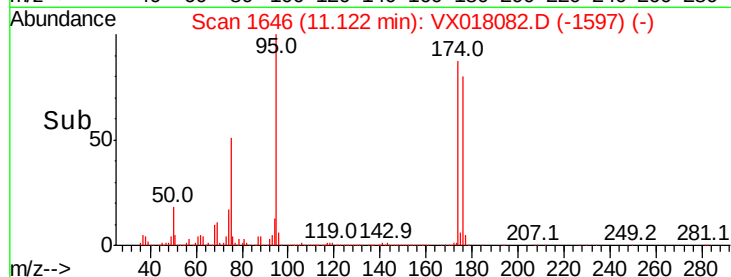
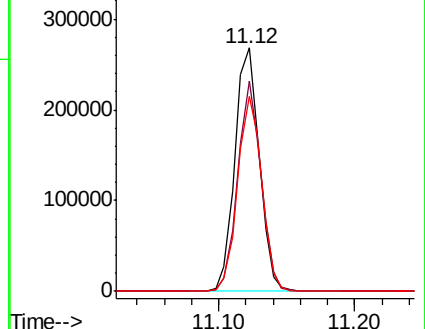
176 78.9 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX018044.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX018044.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX018044.D (-1639) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX018082.D

Acq: 26 Aug 2020 17:05

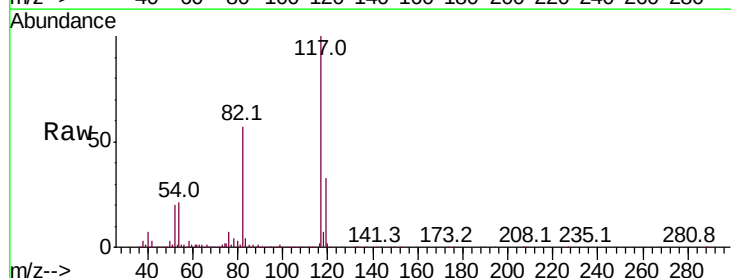
Tgt Ion: 117 Resp: 715158

Ion Ratio Lower Upper

117 100

82 57.2 44.2 66.2

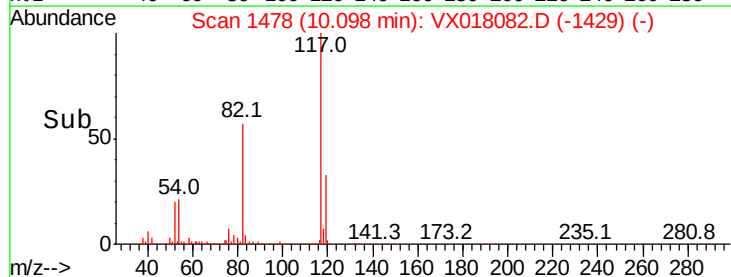
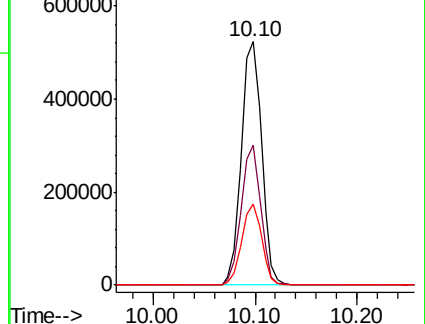
119 33.3 25.7 38.5

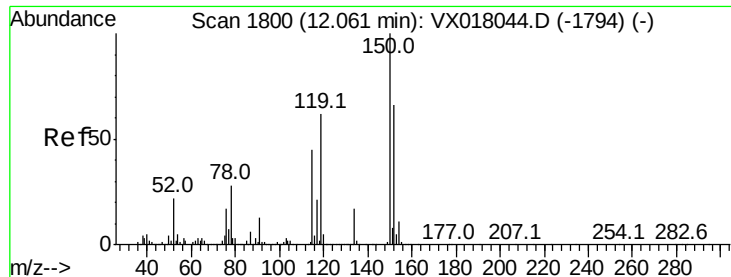


Abundance Ion 116.90 (116.60 to 117.60): VX018044.D (-1467) (-)

Ion 82.00 (81.70 to 82.70): VX018044.D (-1467) (-)

Ion 118.90 (118.60 to 119.60): VX018044.D (-1467) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX018082.D

Acq: 26 Aug 2020 17:05

Instrument :

MSVOA_X

ClientSampled :

RO-04

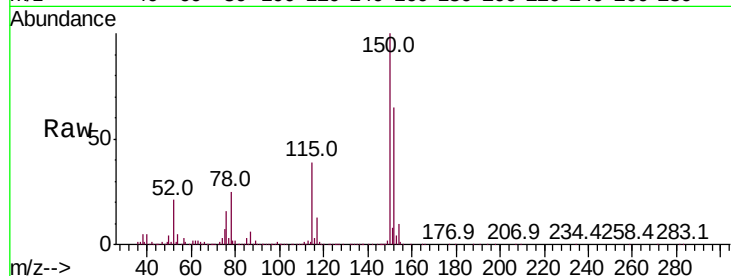
Tot Ion:152 Resp: 336661

Ion Ratio Lower Upper

152 100

115 58.8 41.5 124.5

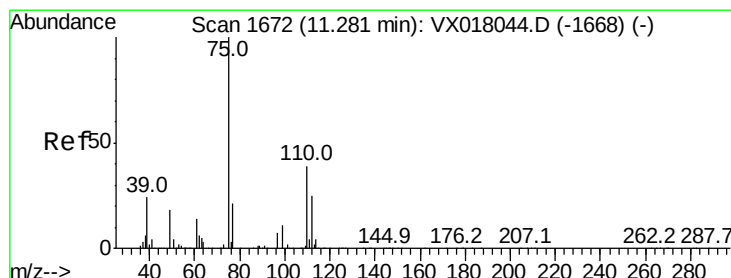
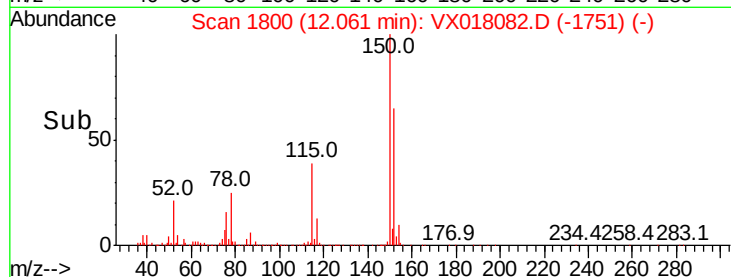
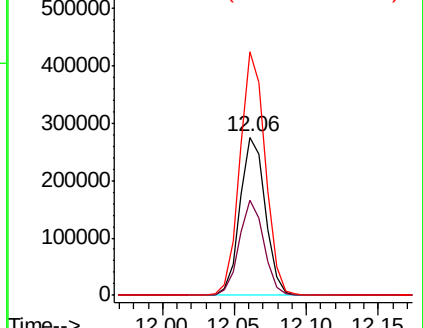
150 153.8 0.0 343.8



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: 22.850 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018082.D

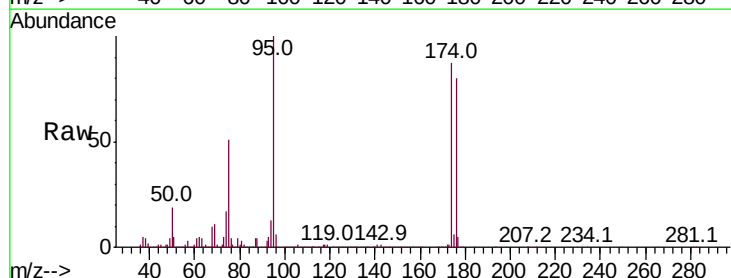
Acq: 26 Aug 2020 17:05

Tgt Ion: 75 Resp: 171130

Ion Ratio Lower Upper

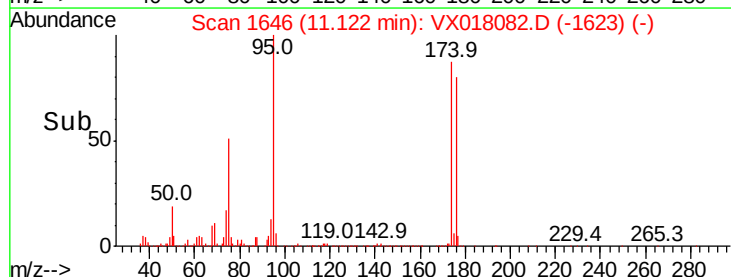
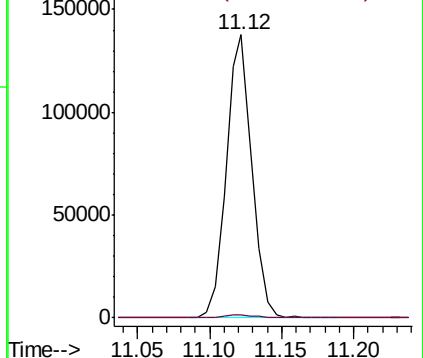
75 100

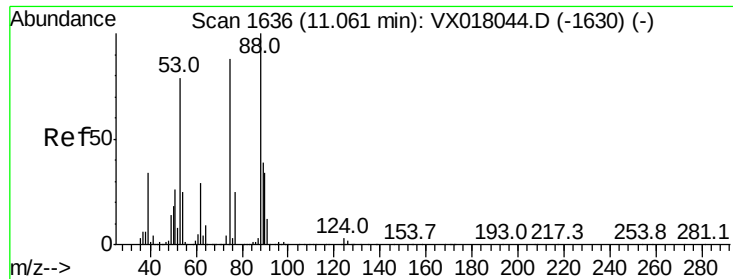
77 1.4 20.8 62.2#



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: 61.715 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018082.D

Acq: 26 Aug 2020 17:05

Instrument :

MSVOA_X

ClientSampleId :

RO-04

Tot Ion: 75 Resp: 171130

Ion Ratio Lower Upper

75 100

53 0.6 74.7 112.1#

89 0.1 36.6 54.8#

