

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072420\
 Data File : VX017546.D
 Acq On : 24 Jul 2020 16:30
 Operator : JC/SP
 Sample : L3410-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FM-FRAC

Quant Time: Jul 25 01:51:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 24 05:48:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	437608	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	721373	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	754677	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	391127	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	304645	54.20	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	108.40%	
35) Dibromofluoromethane	5.47	113	256158	53.09	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	106.18%	
50) Toluene-d8	8.70	98	924472	53.12	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	106.24%	
62) 4-Bromofluorobenzene	11.12	95	389707	55.95	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	111.90%	

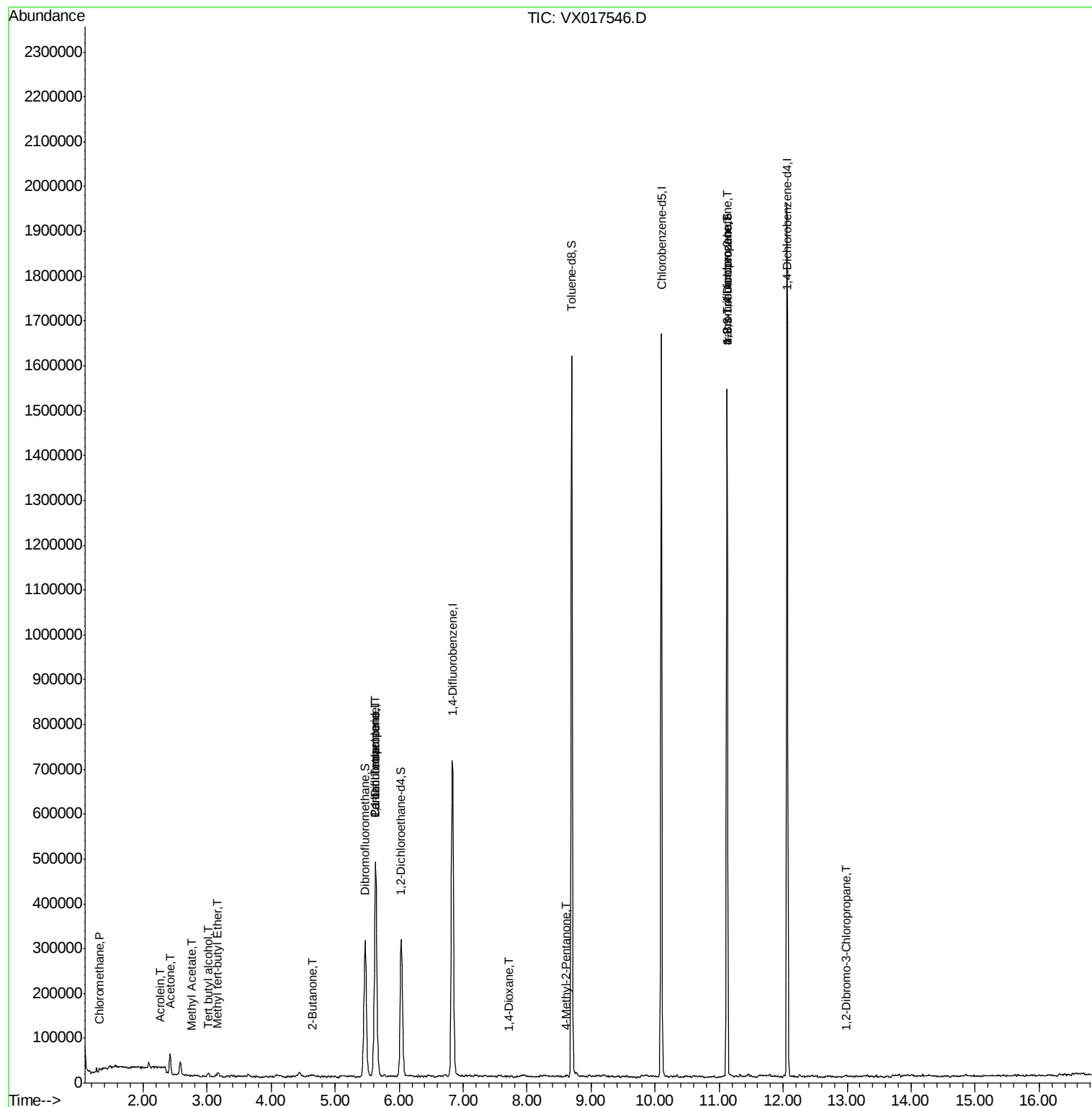
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	421	Below Cal		93
3) Chloromethane	1.32	50	3275	0.968 ug/l #		87
5) Bromomethane	1.64	94	640	Below Cal #		14
6) Chloroethane	1.70	64	358	Below Cal #		44
8) Diethyl Ether	2.24	74	604	Below Cal		78
11) Tert butyl alcohol	3.01	59	6921	5.842 ug/l #		75
13) Acrolein	2.27	56	281	4.454 ug/l #		56
16) Acetone	2.42	43	49146	19.864 ug/l		99
18) Methyl Acetate	2.75	43	1230	0.211 ug/l #		68
19) Methyl tert-butyl Ether	3.17	73	8654	0.553 ug/l #		83
20) Methylene Chloride	2.82	84	1640	Below Cal #		79
25) 2-Butanone	4.64	43	1917	0.545 ug/l #		89
36) 1,1-Dichloropropene	5.64	75	31755	4.590 ug/l #		53
38) Carbon Tetrachloride	5.63	117	44805	5.333 ug/l #		19
49) 1,4-Dioxane	7.71	88	120	1.011 ug/l #		1
51) 4-Methyl-2-Pentanone	8.61	43	2982	0.400 ug/l		92
76) 1,2,3-Trichloropropane	11.12	75	198169	24.631 ug/l #		34
81) trans-1,4-Dichloro-2-buten	11.12	75	198169	62.063 ug/l #		12
92) 1,2-Dibromo-3-Chloropropan	12.99	75	293	2.694 ug/l #		17

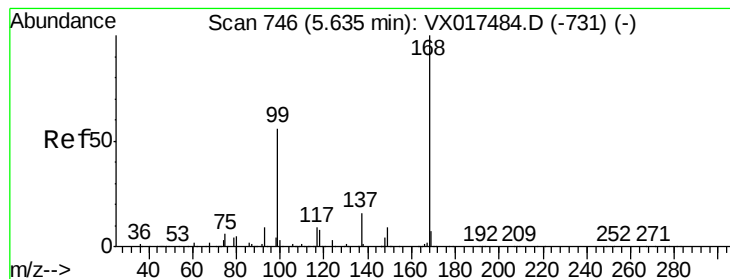
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017546.D

Acq: 24 Jul 2020 16:30

Instrument :

MSVOA_X

ClientSampleId :

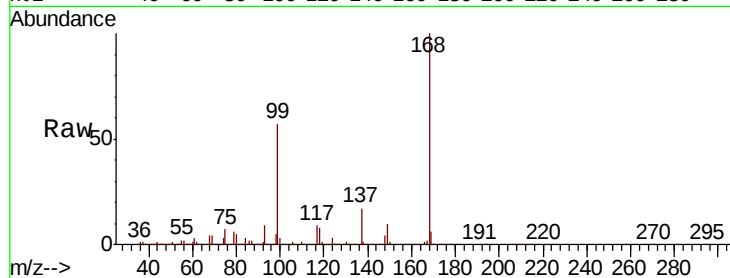
FM-FRAC

Tot Ion:168 Resp: 437608

Ion Ratio Lower Upper

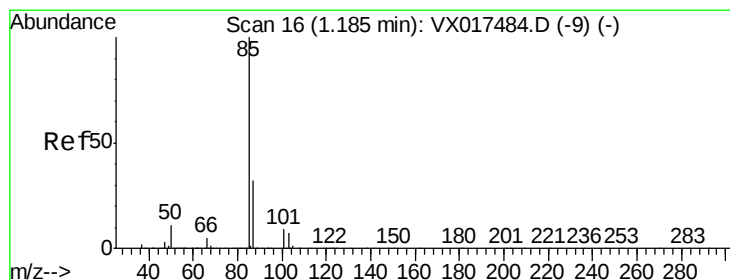
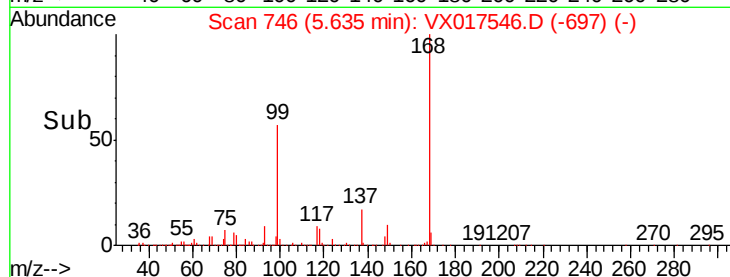
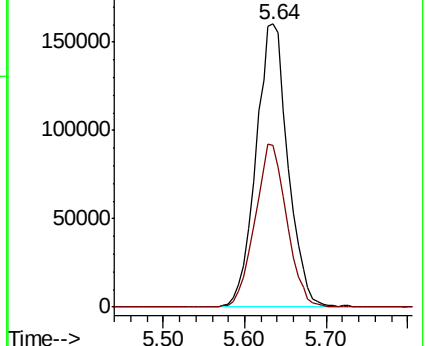
168 100

99 57.0 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX017546.D

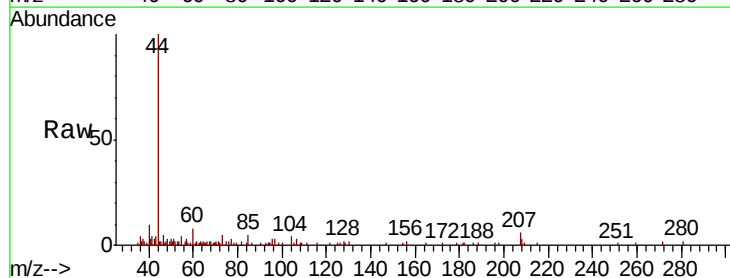
Acq: 24 Jul 2020 16:30

Tgt Ion: 85 Resp: 421

Ion Ratio Lower Upper

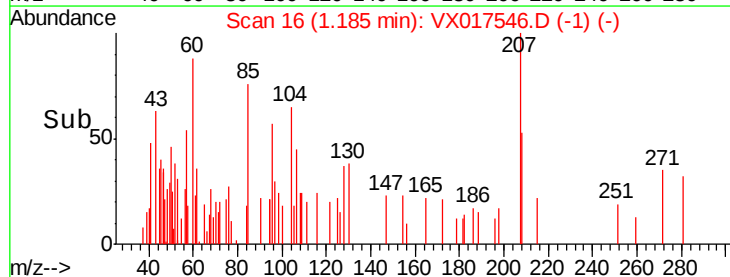
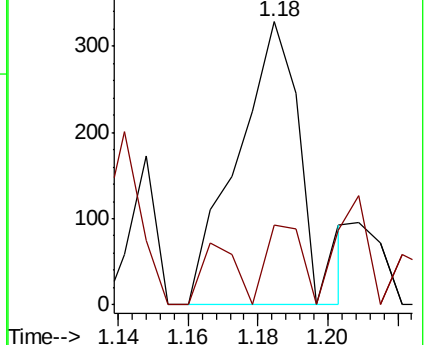
85 100

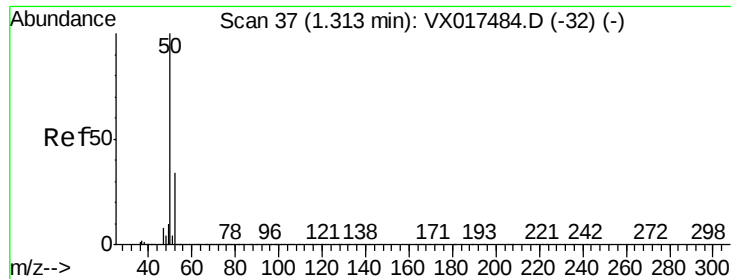
87 28.0 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.968 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017546.D

Acq: 24 Jul 2020 16:30

Instrument :

MSVOA_X

ClientSampleId :

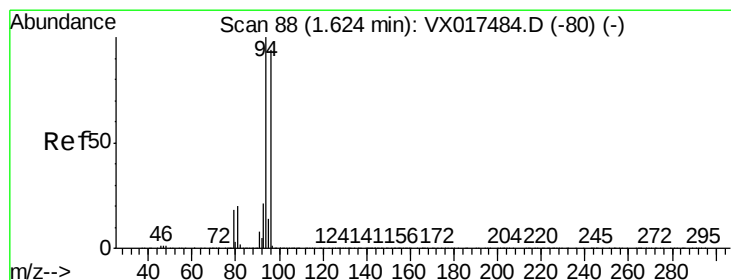
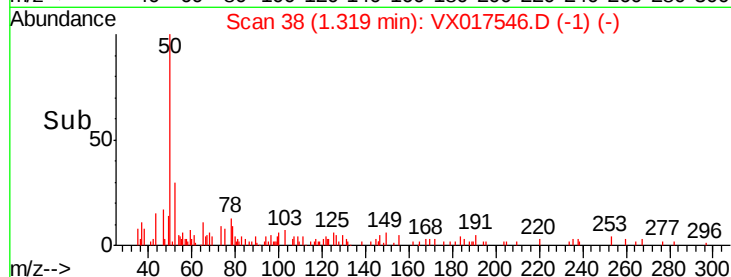
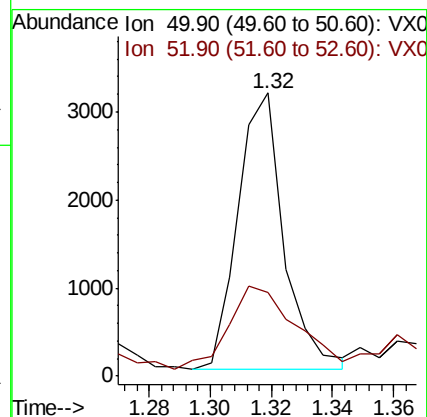
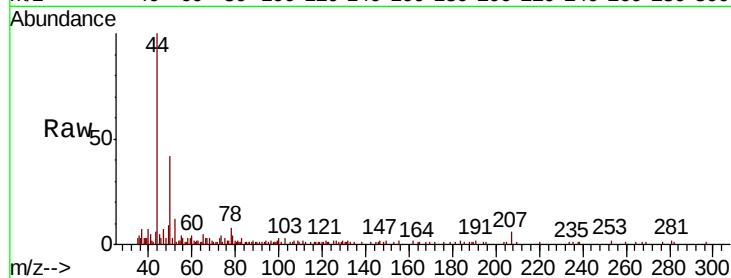
FM-FRAC

Tot Ion: 50 Resp: 3275

Ion Ratio Lower Upper

50 100

52 25.0 25.9 38.9#



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX017546.D

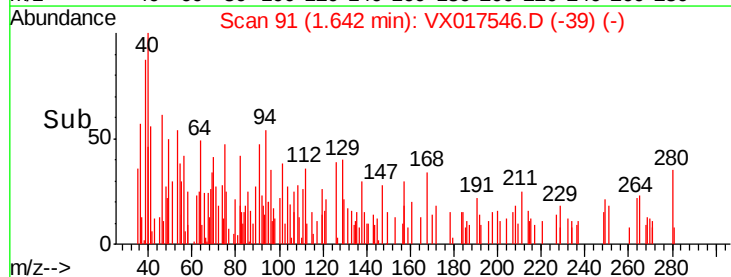
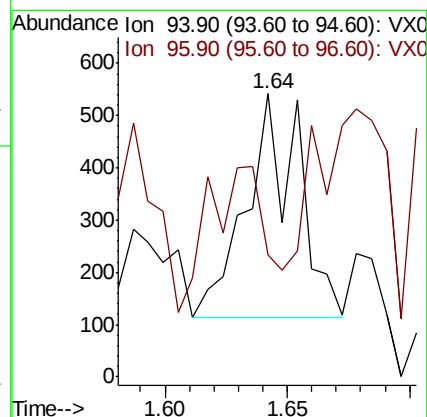
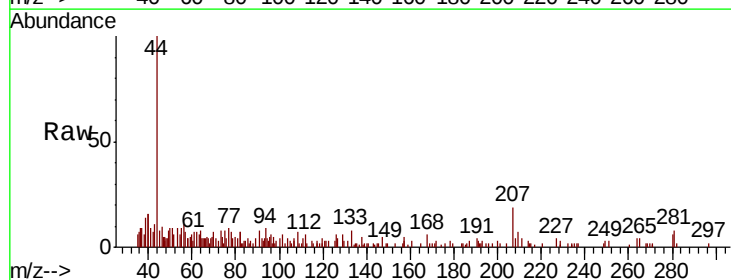
Acq: 24 Jul 2020 16:30

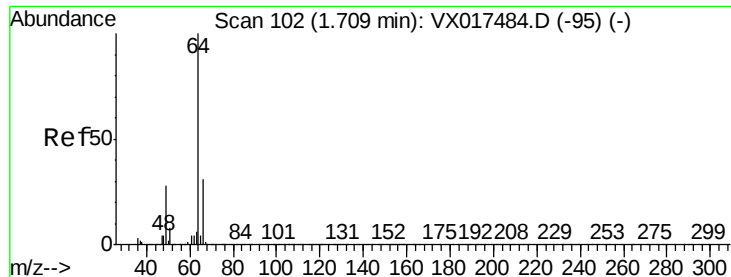
Tgt Ion: 94 Resp: 640

Ion Ratio Lower Upper

94 100

96 10.0 74.1 111.1#





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 100

Delta R.T. -0.01 min

Lab File: VX017546.D

Acq: 24 Jul 2020 16:30

Instrument :

MSVOA_X

ClientSampleId :

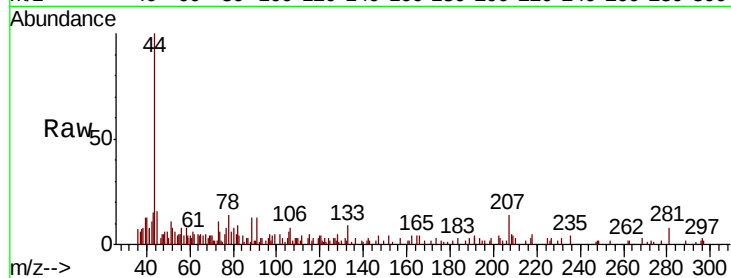
FM-FRAC

Tot Ion: 64 Resp: 358

Ion Ratio Lower Upper

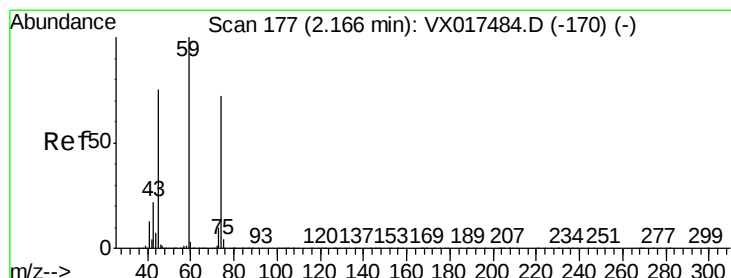
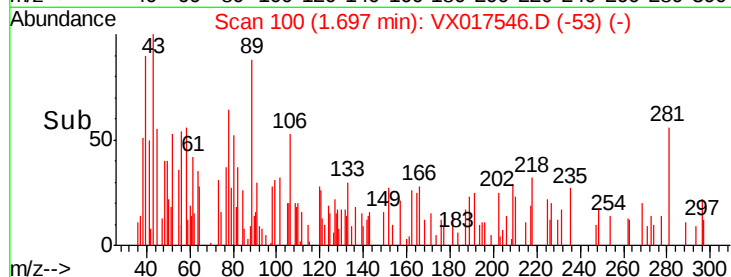
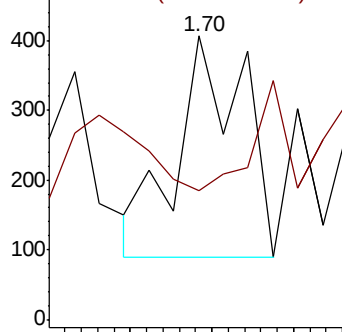
64 100

66 0.0 24.9 37.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.24 min Scan# 189

Delta R.T. 0.07 min

Lab File: VX017546.D

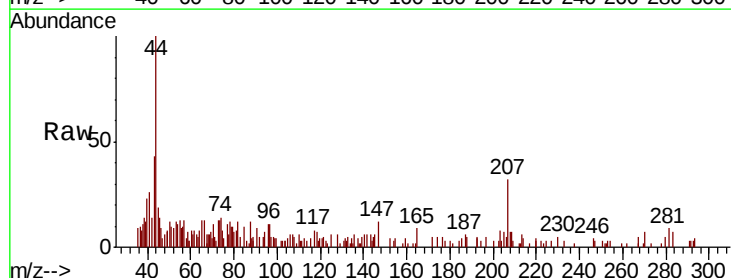
Acq: 24 Jul 2020 16:30

Tgt Ion: 74 Resp: 604

Ion Ratio Lower Upper

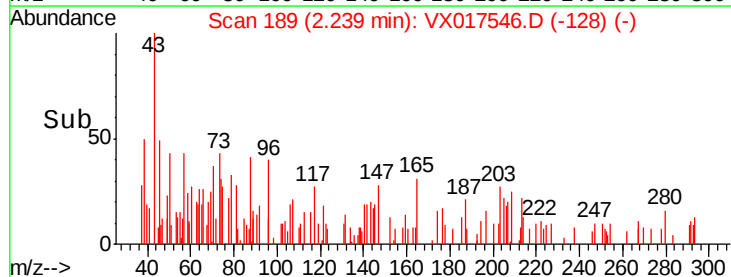
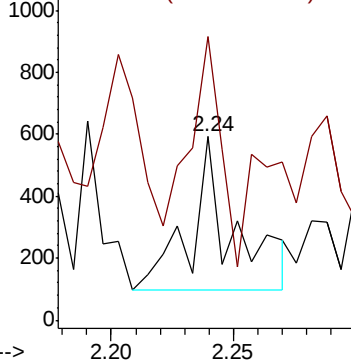
74 100

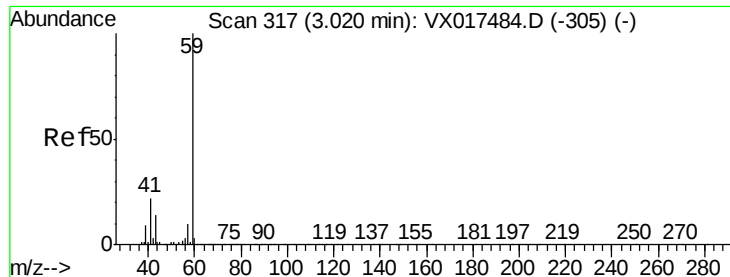
45 124.3 50.8 152.5



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

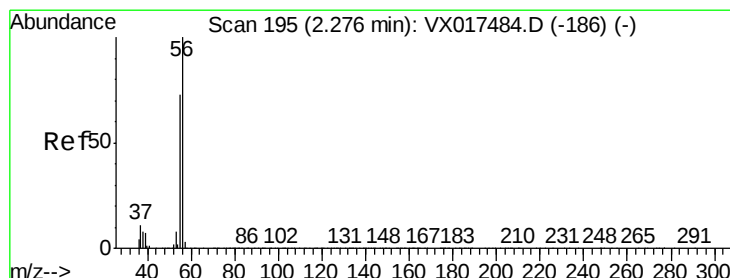
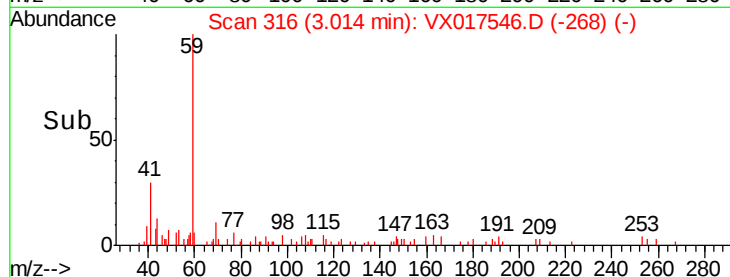
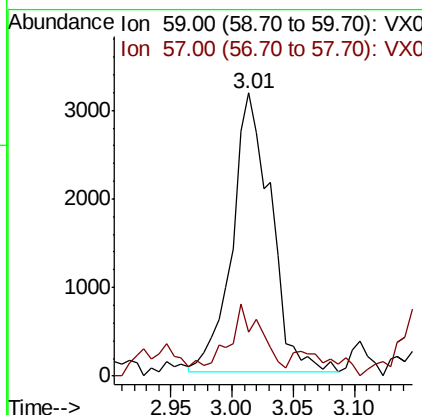
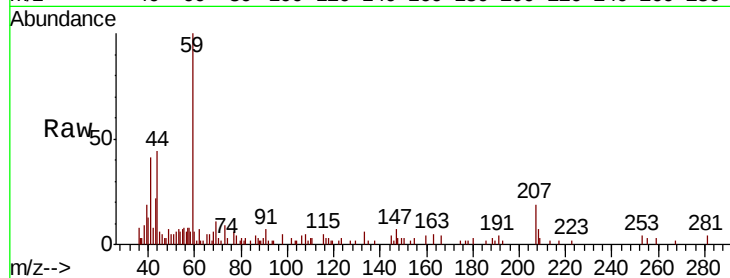




#11
Tert butyl alcohol
Concen: 5.842 ug/l
RT: 3.01 min Scan# 316
Delta R.T. -0.01 min
Lab File: VX017546.D
Acq: 24 Jul 2020 16:30

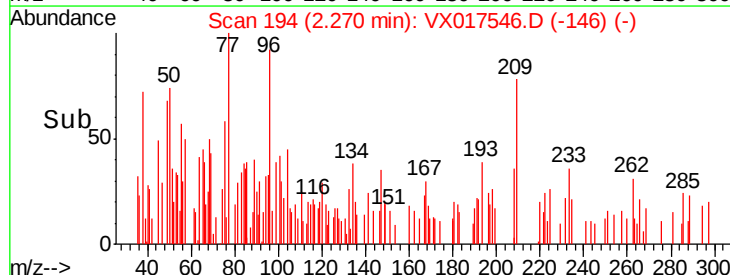
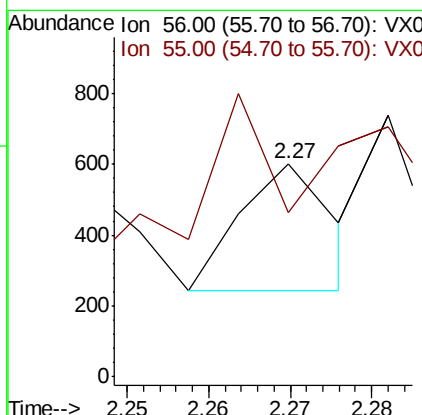
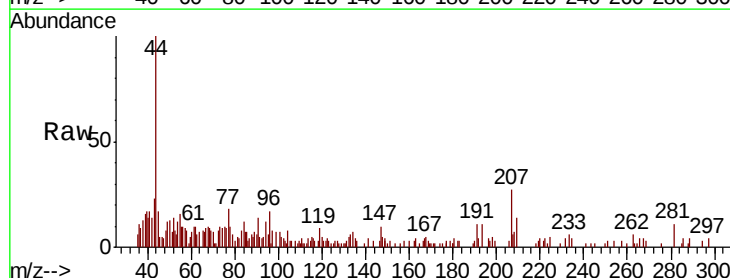
Instrument :
MSVOA_X
ClientSampleId :
FM-FRAC

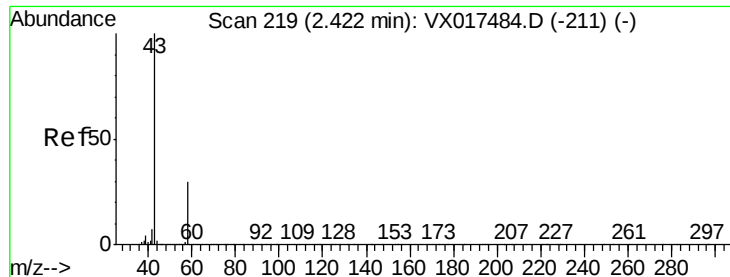
Tot Ion: 59 Resp: 6921
Ion Ratio Lower Upper
59 100
57 20.2 8.6 12.8#



#13
Acrolein
Concen: 4.454 ug/l
RT: 2.27 min Scan# 194
Delta R.T. -0.01 min
Lab File: VX017546.D
Acq: 24 Jul 2020 16:30

Tgt Ion: 56 Resp: 281
Ion Ratio Lower Upper
56 100
55 108.5 57.4 86.2#





#16

Acetone

Concen: 19.864 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX017546.D

Acq: 24 Jul 2020 16:30

Instrument :

MSVOA_X

ClientSampleId :

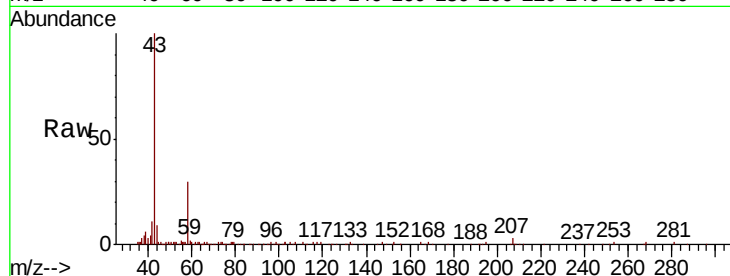
FM-FRAC

Tot Ion: 43 Resp: 49146

Ion Ratio Lower Upper

43 100

58 30.6 24.2 36.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.42

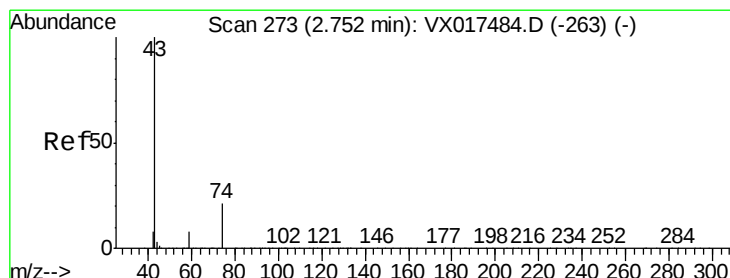
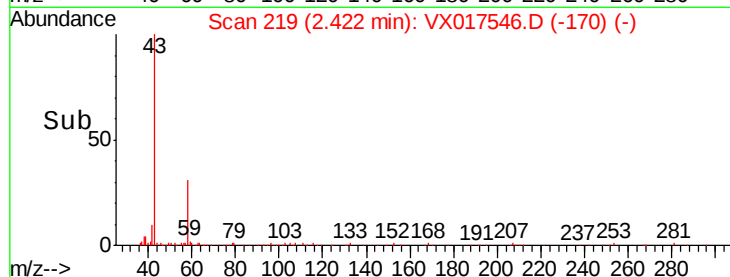
30000

20000

10000

0

Time--> 2.30 2.40 2.50



#18

Methyl Acetate

Concen: 0.211 ug/l

RT: 2.75 min Scan# 272

Delta R.T. -0.01 min

Lab File: VX017546.D

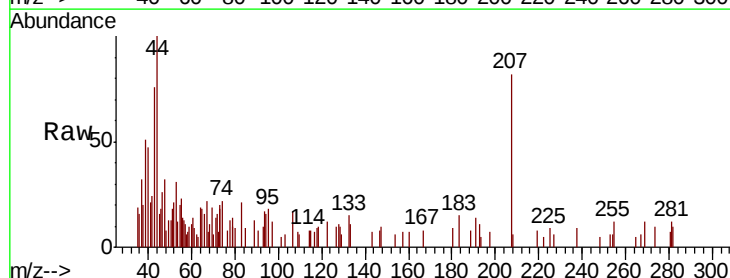
Acq: 24 Jul 2020 16:30

Tgt Ion: 43 Resp: 1230

Ion Ratio Lower Upper

43 100

74 37.1 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.75

800

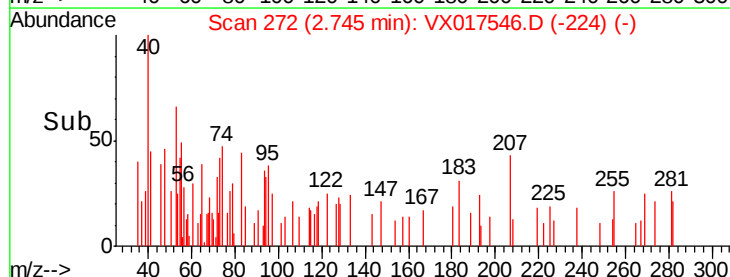
600

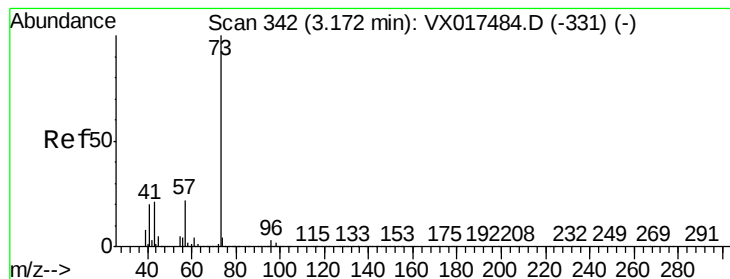
400

200

0

Time--> 2.70 2.75 2.80





#19

Methyl tert-butyl Ether

Concen: 0.553 ug/l

RT: 3.17 min Scan# 341

Delta R.T. -0.01 min

Lab File: VX017546.D

Acq: 24 Jul 2020 16:30

Instrument :

MSVOA_X

ClientSampleId :

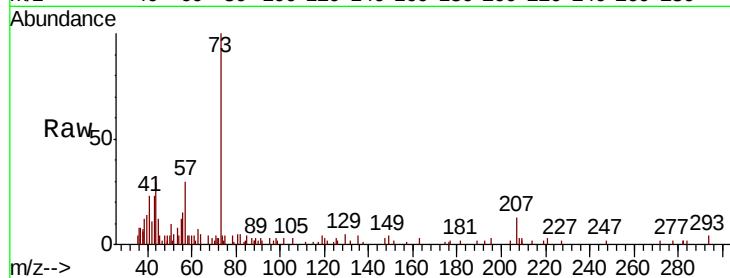
FM-FRAC

Tot Ion: 73 Resp: 8654

Ion Ratio Lower Upper

73 100

57 29.3 17.0 25.4#



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.17

4000

3000

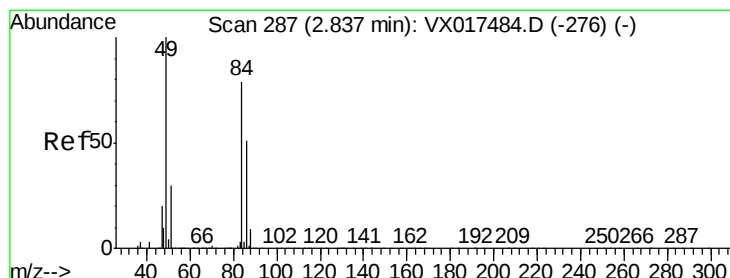
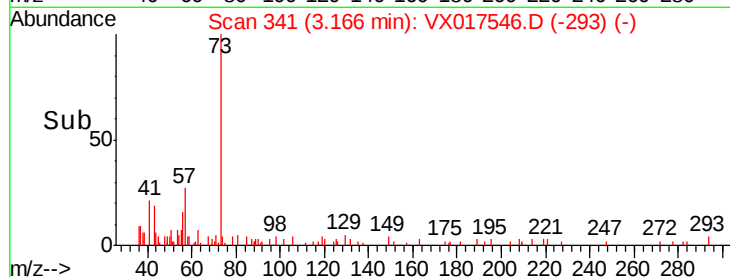
2000

1000

0

3.10 3.15 3.20 3.25

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 2.82 min Scan# 285

Delta R.T. -0.01 min

Lab File: VX017546.D

Acq: 24 Jul 2020 16:30

Tgt Ion: 84 Resp: 1640

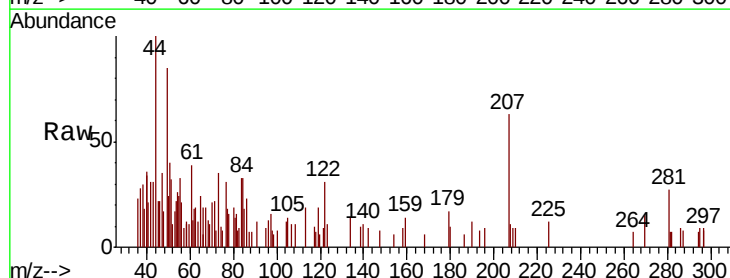
Ion Ratio Lower Upper

84 100

49 128.3 100.3 150.5

51 70.5 30.5 45.7#

86 34.8 51.1 76.7#



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

1200

1000

800

600

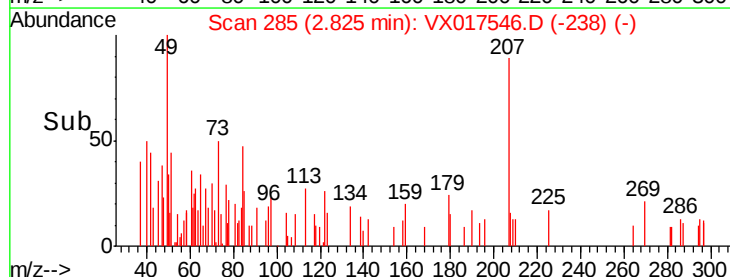
400

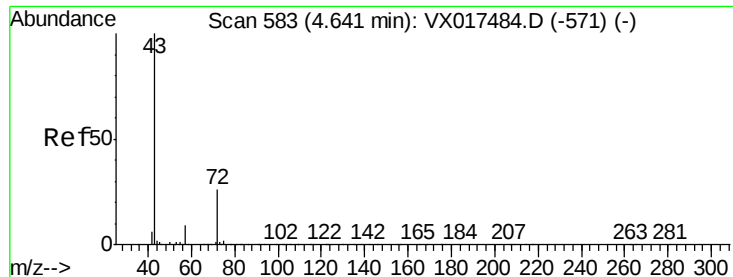
200

0

2.75 2.80 2.85 2.90

Time-->

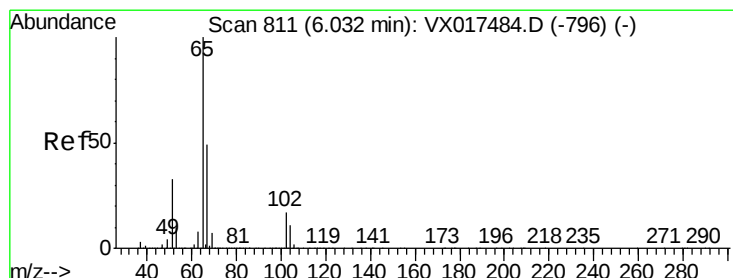
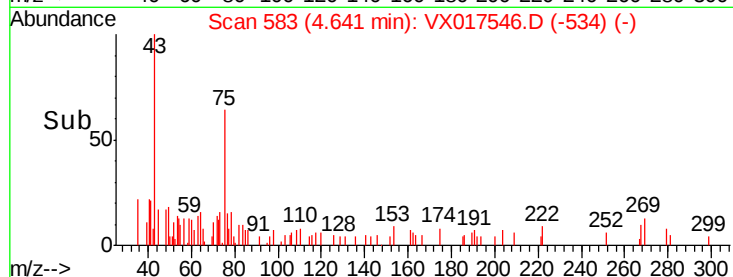
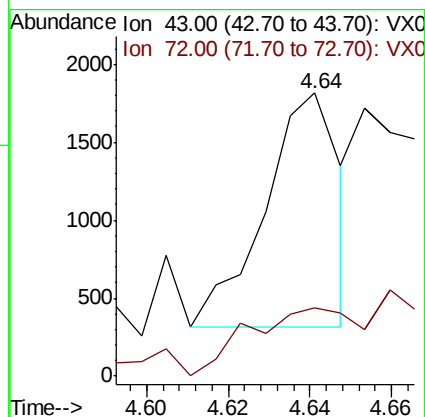
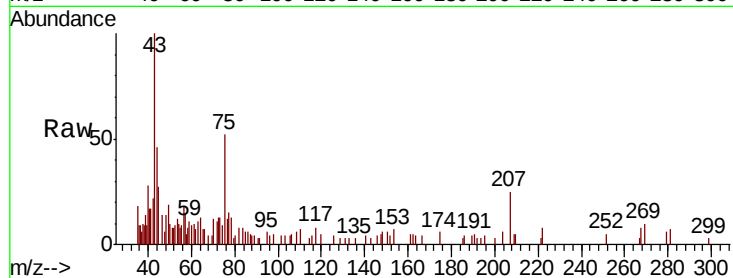




#25
2-Butanone
Concen: 0.545 ug/l
RT: 4.64 min Scan# 583
Delta R.T. -0.00 min
Lab File: VX017546.D
Acq: 24 Jul 2020 16:30

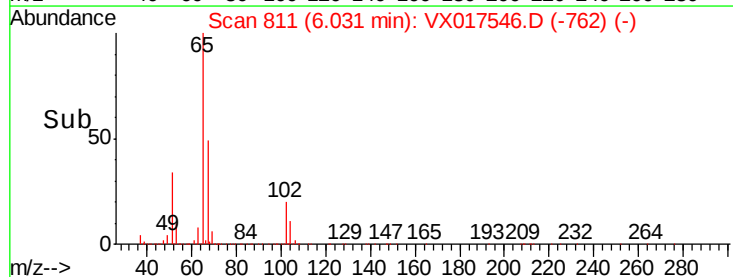
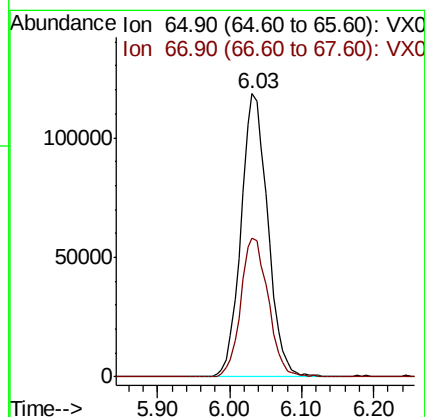
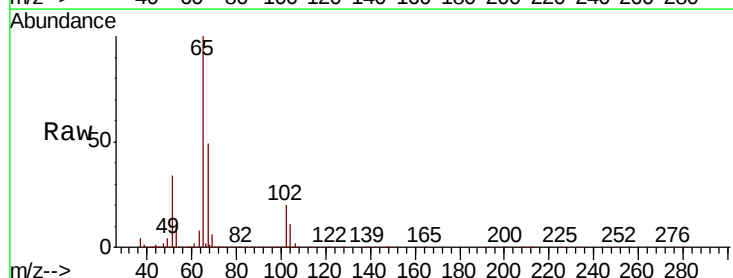
Instrument :
MSVOA_X
ClientSampled :
FM-FRAC

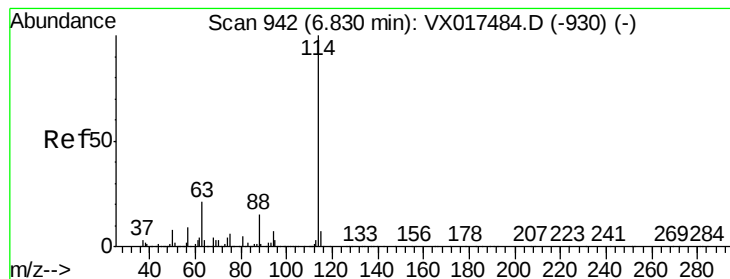
Tot Ion: 43 Resp: 1917
Ion Ratio Lower Upper
43 100
72 29.0 19.0 28.4#



#33
1,2-Dichloroethane-d4
Concen: 54.195 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX017546.D
Acq: 24 Jul 2020 16:30

Tgt Ion: 65 Resp: 304645
Ion Ratio Lower Upper
65 100
67 50.5 0.0 102.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017546.D

Acq: 24 Jul 2020 16:30

Instrument :

MSVOA_X

ClientSampleId :

FM-FRAC

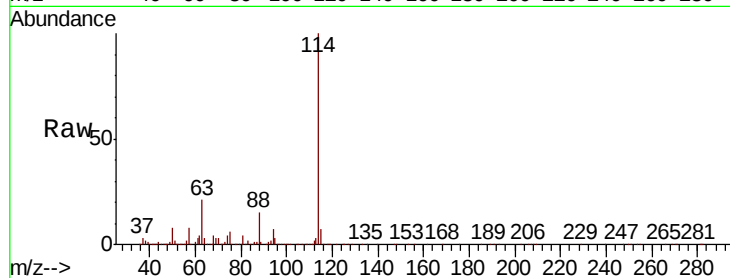
Tot Ion:114 Resp: 721373

Ion Ratio Lower Upper

114 100

63 20.7 0.0 40.6

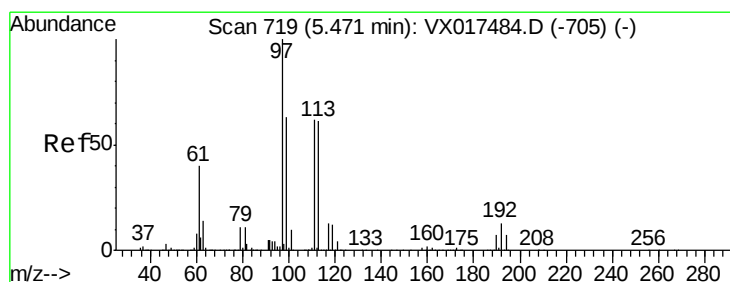
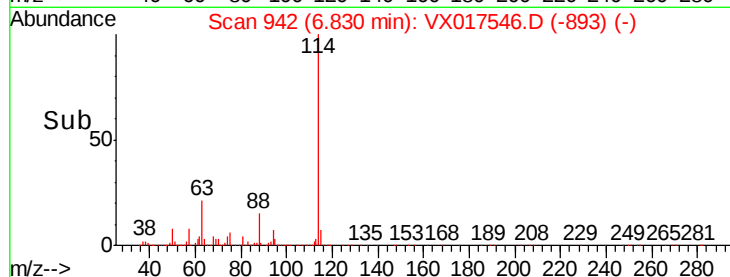
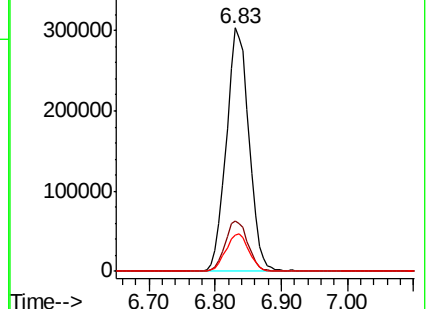
88 14.9 0.0 33.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 53.094 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX017546.D

Acq: 24 Jul 2020 16:30

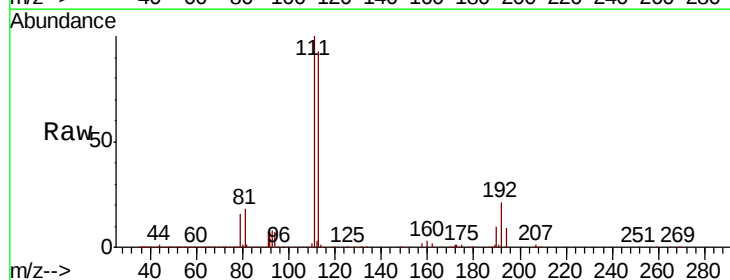
Tgt Ion:113 Resp: 256158

Ion Ratio Lower Upper

113 100

111 102.5 80.7 121.1

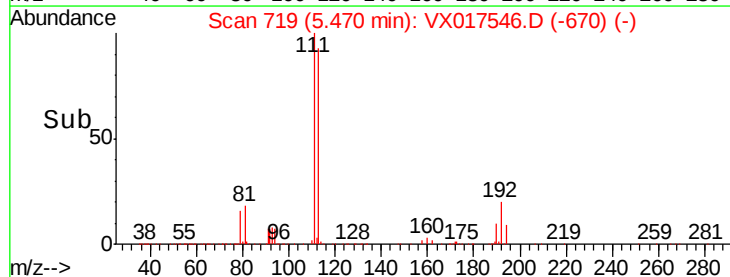
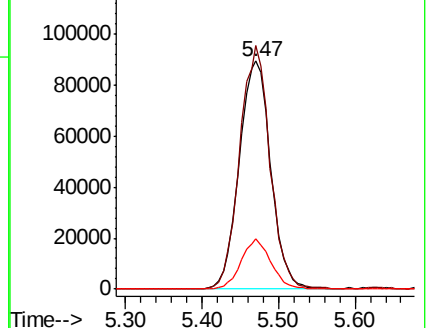
192 20.8 16.9 25.3

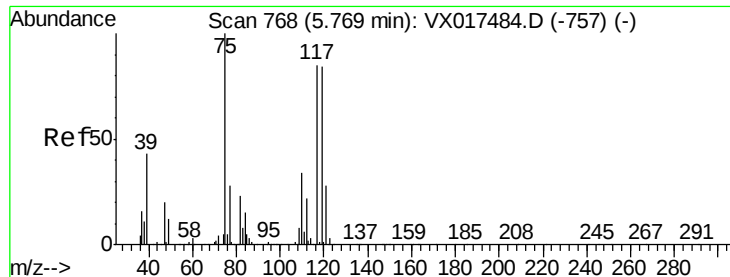


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.590 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX017546.D

Acq: 24 Jul 2020 16:30

Instrument :

MSVOA_X

ClientSampled :

FM-FRAC

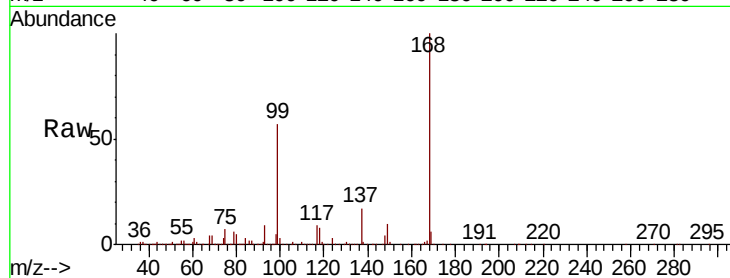
Tot Ion: 75 Resp: 31755

Ion Ratio Lower Upper

75 100

110 12.3 18.1 54.3#

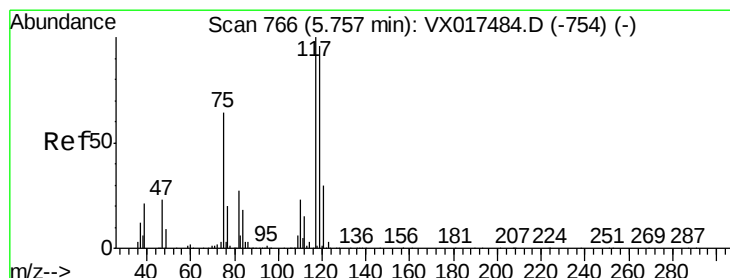
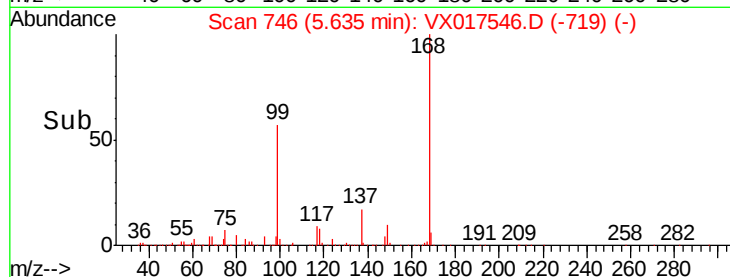
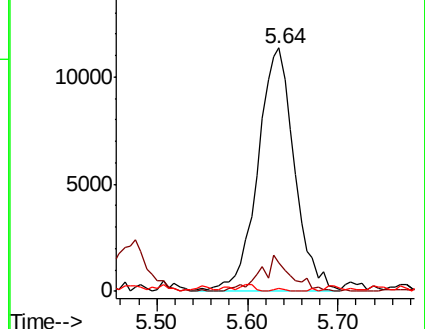
77 0.4 24.6 37.0#



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: 5.333 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX017546.D

Acq: 24 Jul 2020 16:30

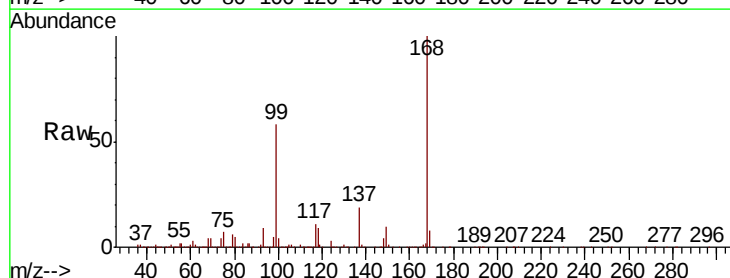
Tgt Ion: 117 Resp: 44805

Ion Ratio Lower Upper

117 100

119 8.4 75.4 113.0#

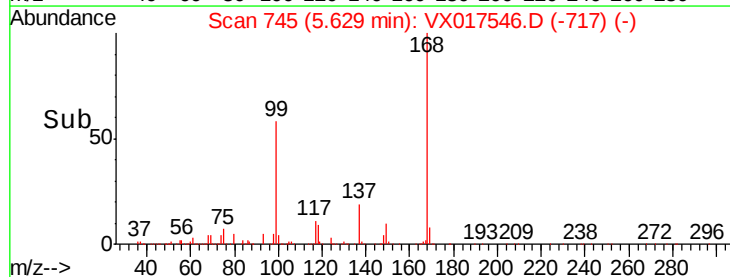
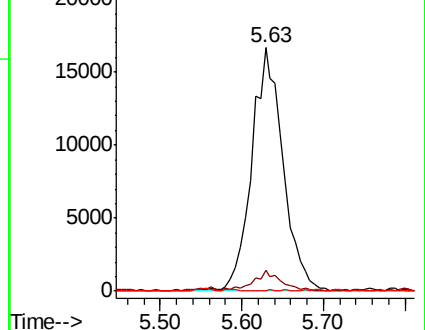
121 0.0 24.3 36.5#

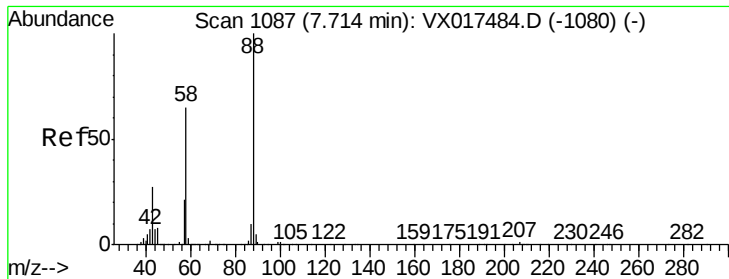


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 1.011 ug/l

RT: 7.71 min Scan# 1086

Delta R.T. -0.01 min

Lab File: VX017546.D

Acq: 24 Jul 2020 16:30

Instrument :

MSVOA_X

ClientSampleId :

FM-FRAC

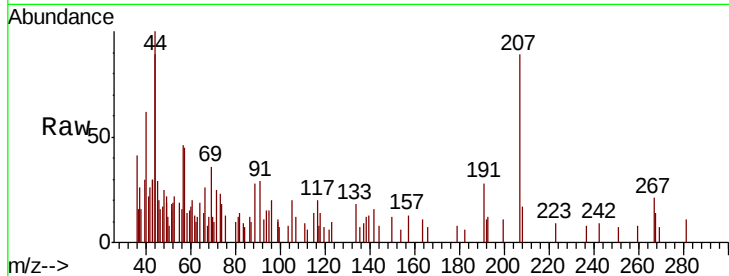
Tot Ion: 88 Resp: 120

Ion Ratio Lower Upper

88 100

43 277.5 27.8 41.6#

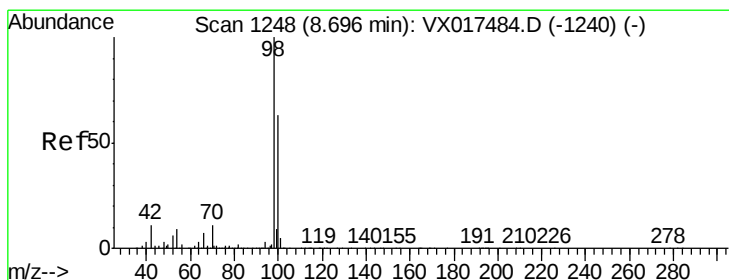
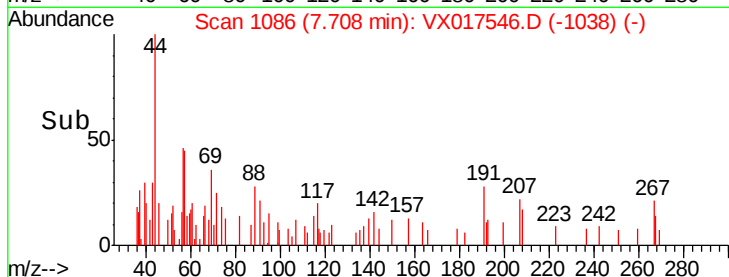
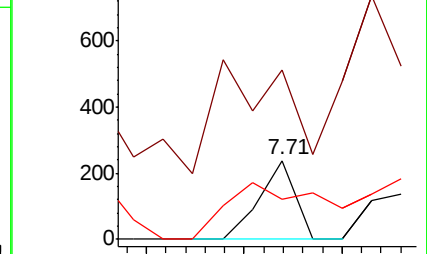
58 191.7 58.3 87.5#



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: 53.117 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017546.D

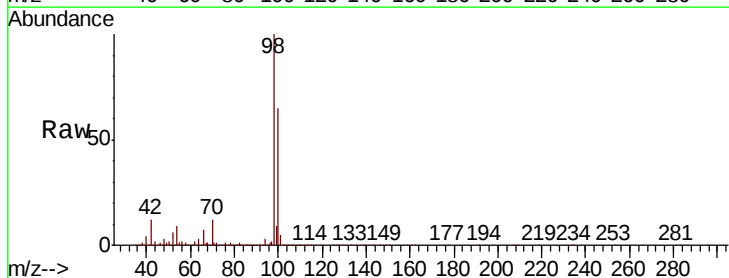
Acq: 24 Jul 2020 16:30

Tgt Ion: 98 Resp: 924472

Ion Ratio Lower Upper

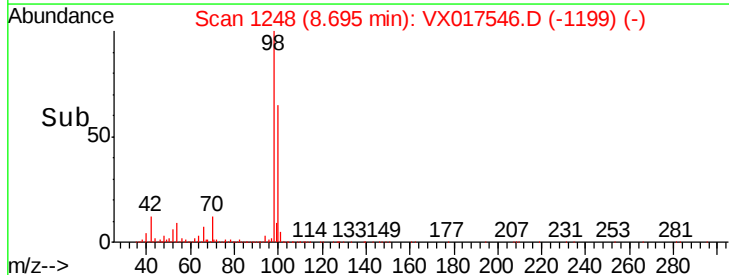
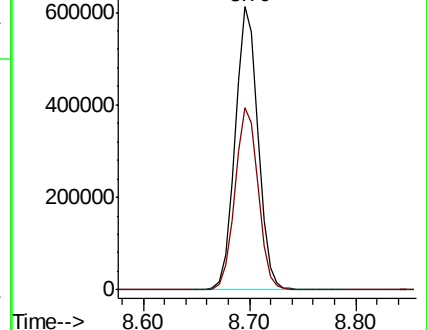
98 100

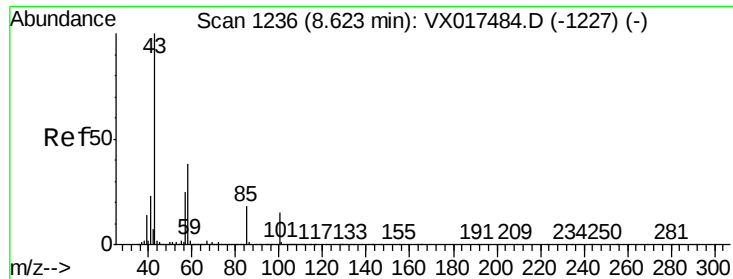
100 65.2 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 0.400 ug/l

RT: 8.61 min Scan# 1234

Delta R.T. -0.01 min

Lab File: VX017546.D

Acq: 24 Jul 2020 16:30

Instrument :

MSVOA_X

ClientSampleId :

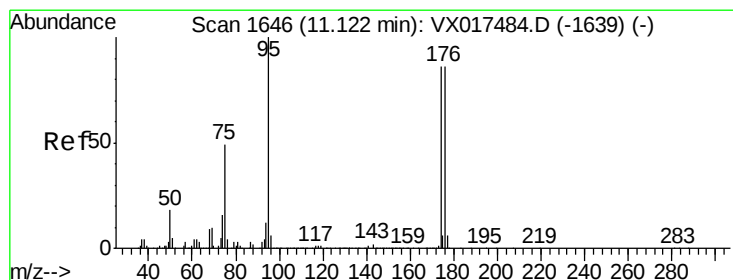
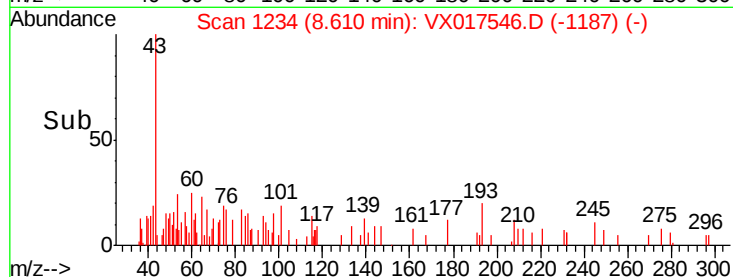
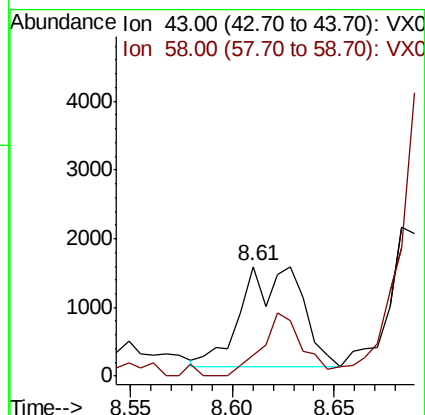
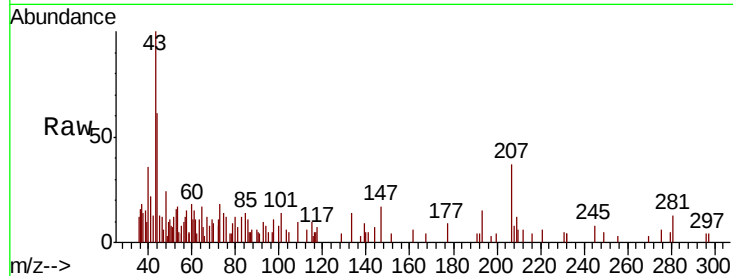
FM-FRAC

Tot Ion: 43 Resp: 2982

Ion Ratio Lower Upper

43 100

58 43.6 31.0 46.4



#62

4-Bromofluorobenzene

Concen: 55.949 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017546.D

Acq: 24 Jul 2020 16:30

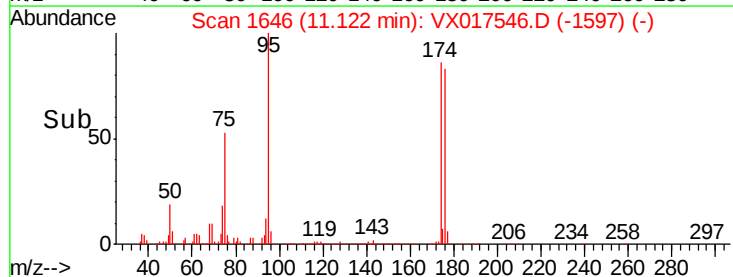
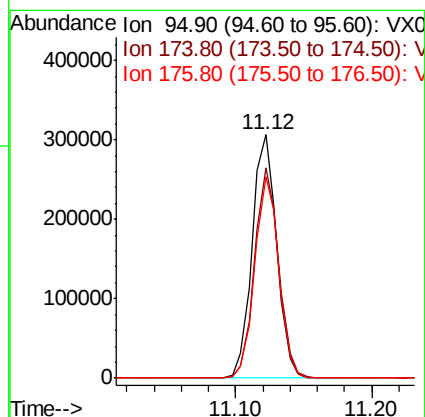
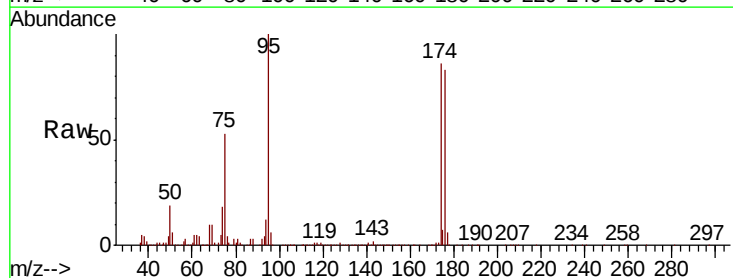
Tgt Ion: 95 Resp: 389707

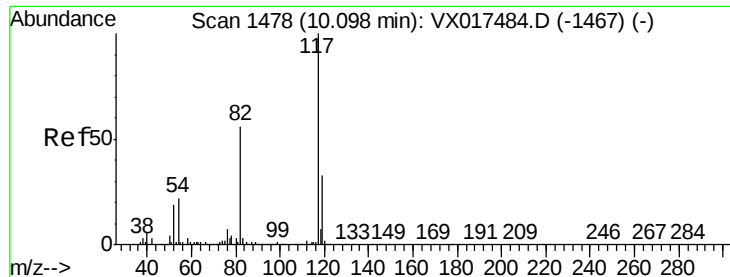
Ion Ratio Lower Upper

95 100

174 84.8 0.0 169.0

176 81.1 0.0 161.0

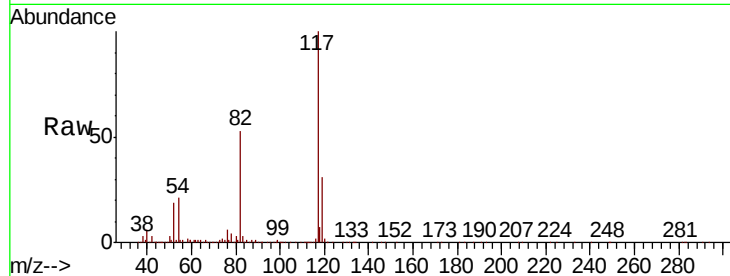




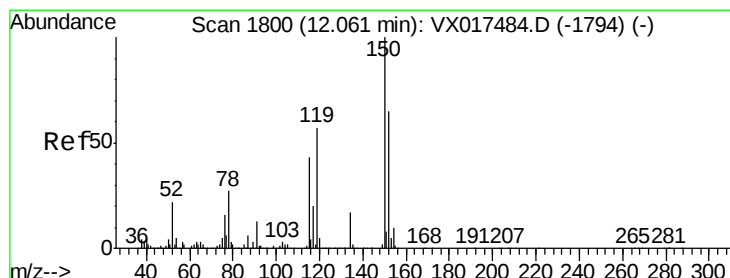
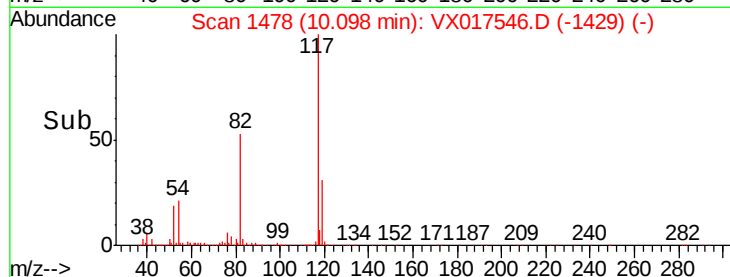
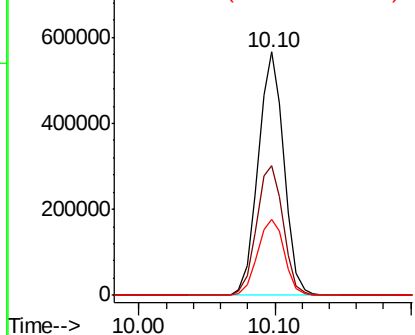
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017546.D
Acq: 24 Jul 2020 16:30

Instrument :
MSVOA_X
ClientSampleId :
FM-FRAC

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.2	44.0	66.0
119	31.3	25.4	38.0

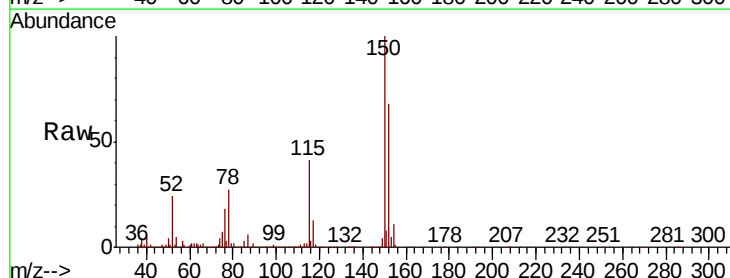


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

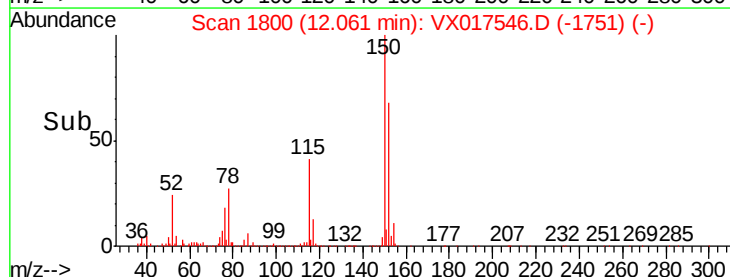
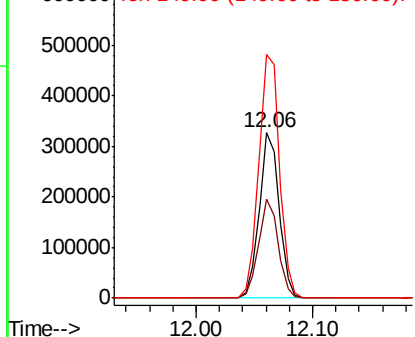


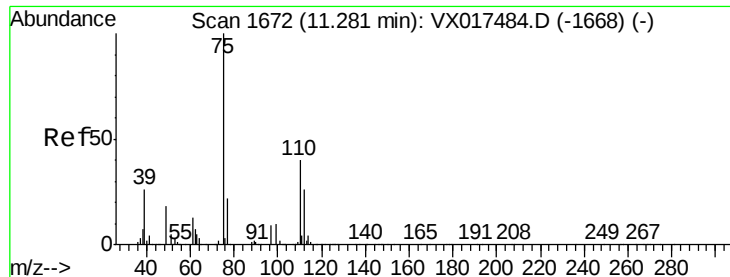
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017546.D
Acq: 24 Jul 2020 16:30

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.1	65.5	196.6#
150	154.3	0.0	412.6



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: 24.631 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017546.D

Acq: 24 Jul 2020 16:30

Instrument :

MSVOA_X

ClientSampleId :

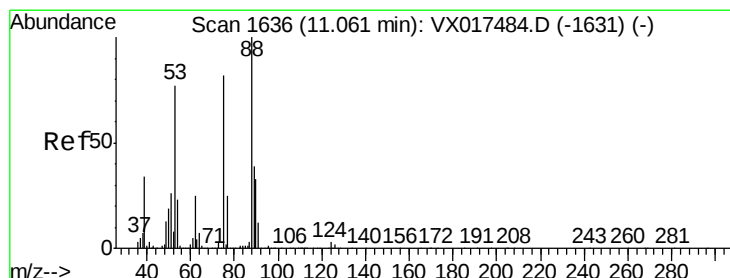
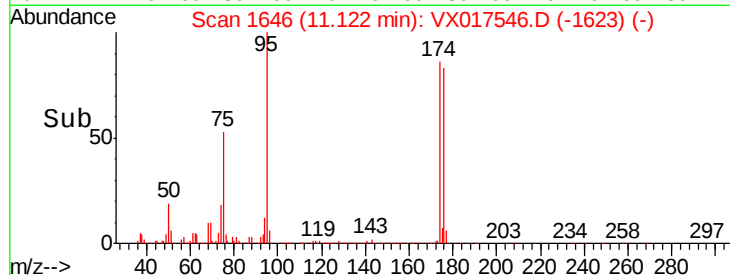
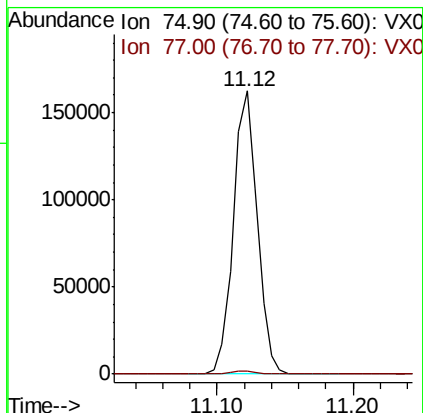
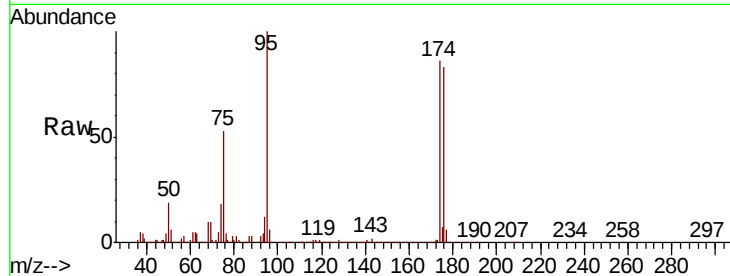
FM-FRAC

Tot Ion: 75 Resp: 198169

Ion Ratio Lower Upper

75 100

77 1.4 21.8 65.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 62.063 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017546.D

Acq: 24 Jul 2020 16:30

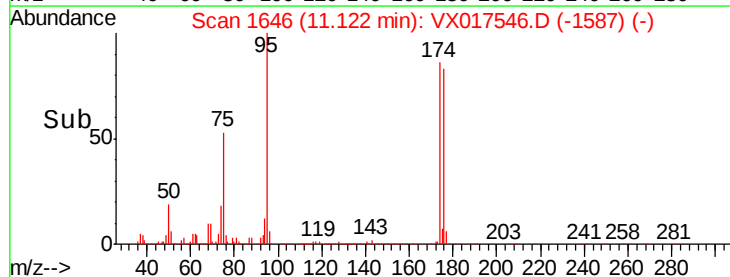
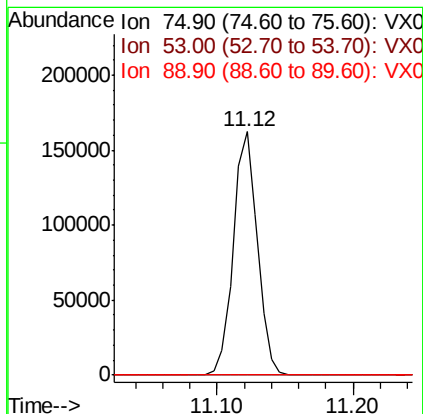
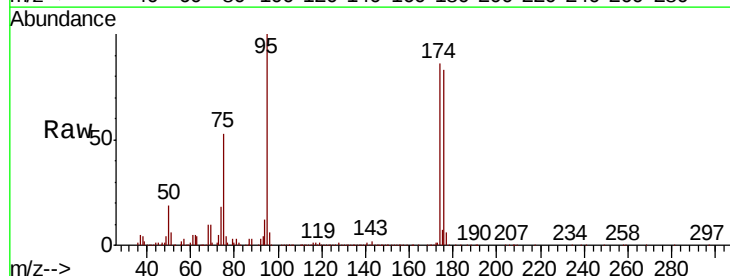
Tgt Ion: 75 Resp: 198169

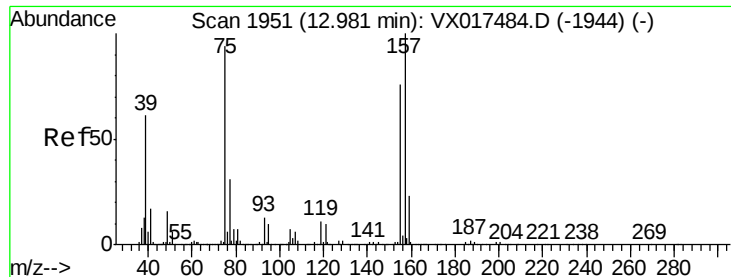
Ion Ratio Lower Upper

75 100

53 0.3 75.9 113.9#

89 0.0 37.8 56.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.694 ug/l

RT: 12.99 min Scan# 1953

Delta R.T. 0.01 min

Lab File: VX017546.D

Acq: 24 Jul 2020 16:30

Instrument :

MSVOA_X

ClientSampleId :

FM-FRAC

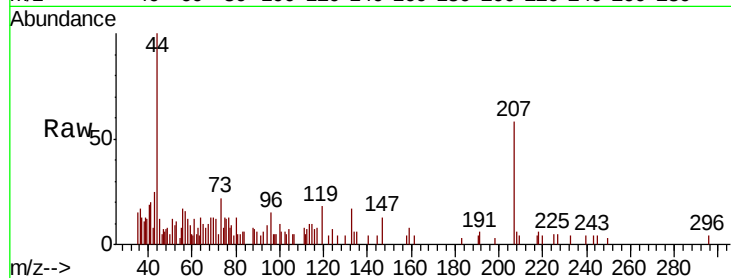
Tot Ion: 75 Resp: 293

Ion Ratio Lower Upper

75 100

155 0.0 42.3 126.8#

157 29.4 54.3 162.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

