

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071720\
 Data File : VX017419.D
 Acq On : 17 Jul 2020 15:02
 Operator : JC/SP
 Sample : PB130263ZHE#11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 18 06:58:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071320W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 14 02:59:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	243517	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	429443	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	466121	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	245026	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	175882	57.55	ug/l	0.00
Spiked Amount			Recovery	=	115.10%	
35) Dibromofluoromethane	5.47	113	152019	52.55	ug/l	0.00
Spiked Amount			Recovery	=	105.10%	
50) Toluene-d8	8.70	98	552552	52.95	ug/l	0.00
Spiked Amount			Recovery	=	105.90%	
62) 4-Bromofluorobenzene	11.12	95	224316	54.12	ug/l	0.00
Spiked Amount			Recovery	=	108.24%	

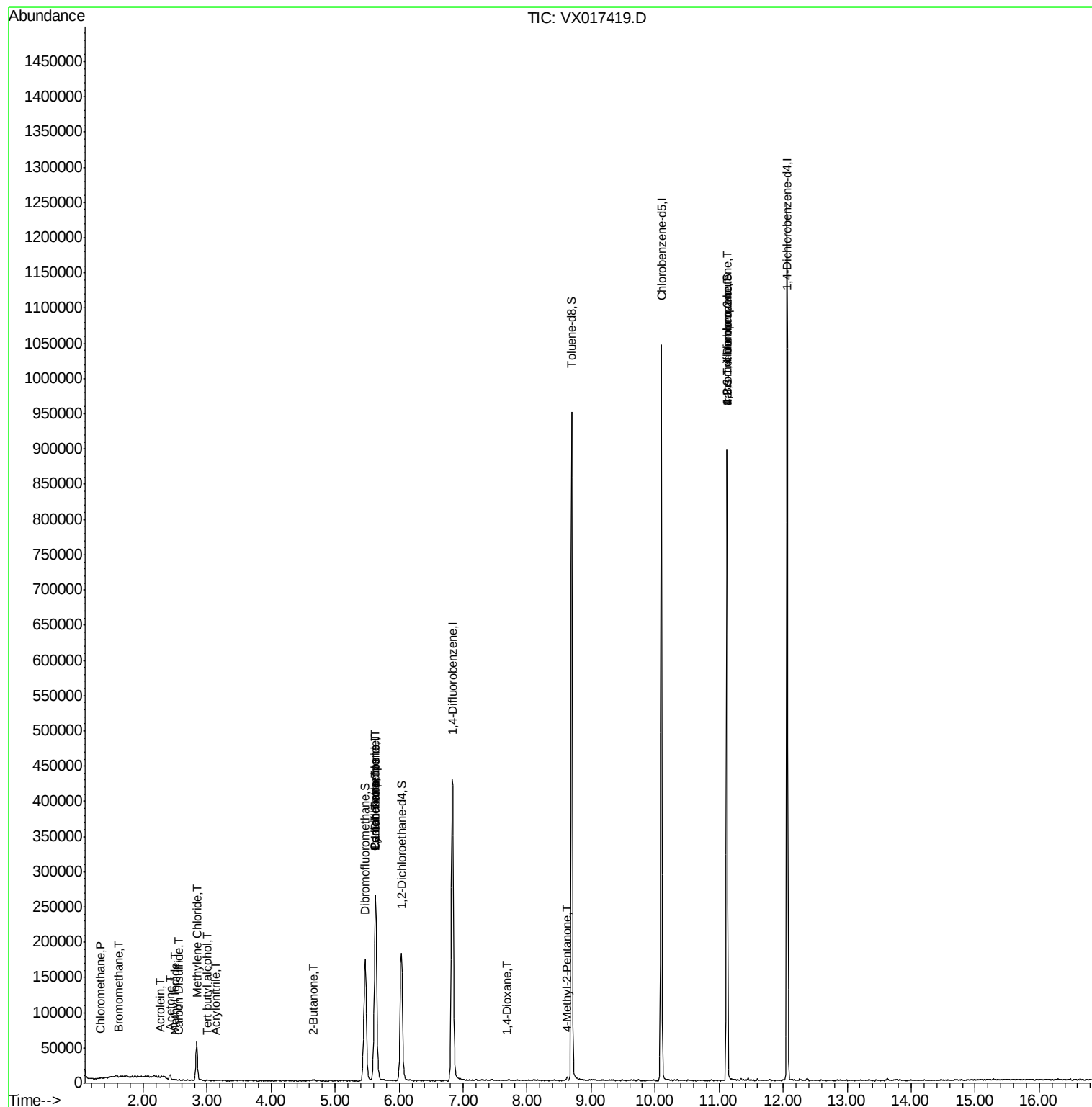
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	804	0.347	ug/l	91
5) Bromomethane	1.63	94	305	0.204	ug/l #	33
10) Methyl Iodide	2.50	142	170	2.429	ug/l #	75
11) Tert butyl alcohol	3.01	59	483	0.938	ug/l #	94
13) Acrolein	2.26	56	215	0.762	ug/l #	20
15) Acrylonitrile	3.13	53	327	0.262	ug/l #	69
16) Acetone	2.42	43	6974	6.396	ug/l	94
17) Carbon Disulfide	2.55	76	1567	0.242	ug/l #	91
20) Methylene Chloride	2.84	84	25531	9.597	ug/l	94
25) 2-Butanone	4.65	43	2516	1.453	ug/l #	61
31) Cyclohexane	5.63	56	5548	1.577	ug/l #	9
36) 1,1-Dichloropropene	5.64	75	18956	4.799	ug/l #	50
38) Carbon Tetrachloride	5.64	117	24923	5.389	ug/l #	18
49) 1,4-Dioxane	7.68	88	69	1.076	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	2668	0.670	ug/l #	82
76) 1,2,3-Trichloropropane	11.12	75	111427	24.610	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	111427	62.431	ug/l #	11

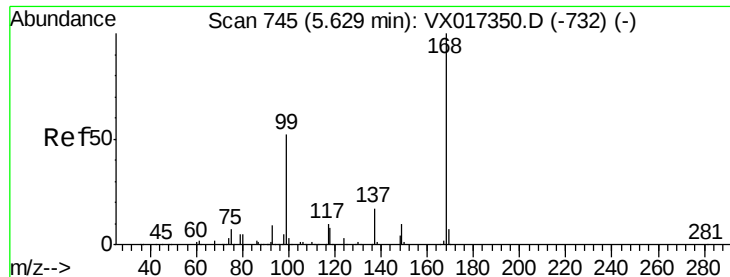
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.00 min

Lab File: VX017419.D

Acq: 17 Jul 2020 15:02

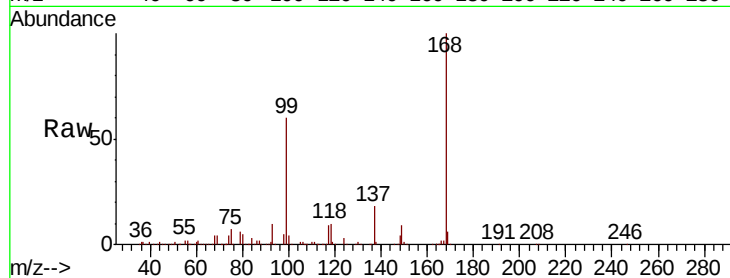
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 243517

Ion Ratio Lower Upper

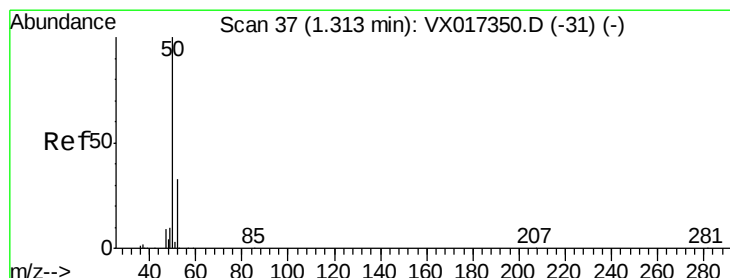
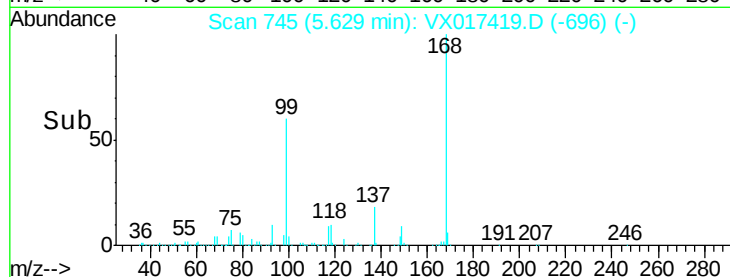
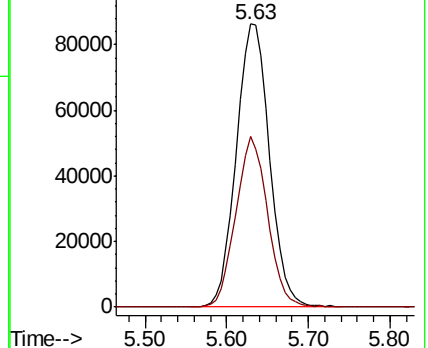
168 100

99 60.4 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.347 ug/l

RT: 1.32 min Scan# 39

Delta R.T. 0.01 min

Lab File: VX017419.D

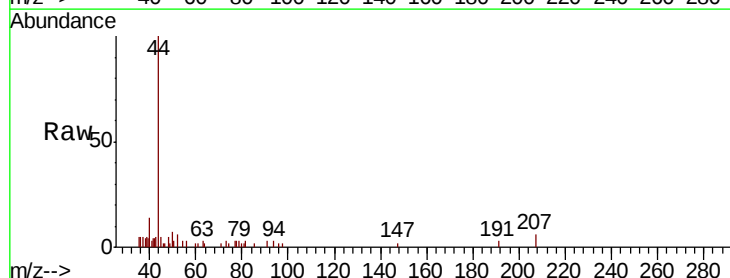
Acq: 17 Jul 2020 15:02

Tgt Ion: 50 Resp: 804

Ion Ratio Lower Upper

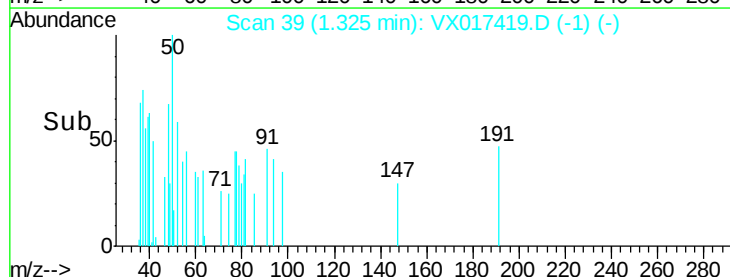
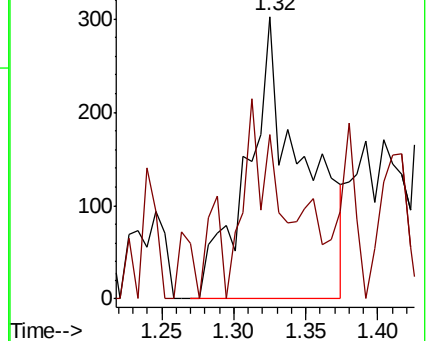
50 100

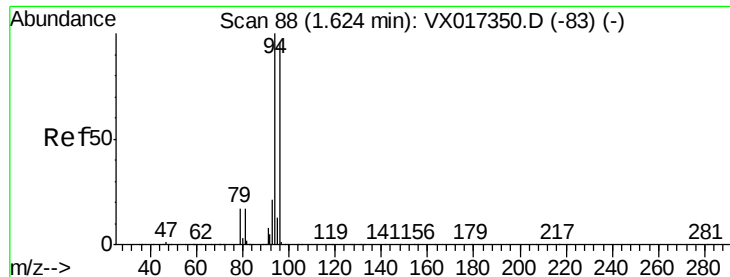
52 38.6 26.7 40.1



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.204 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX017419.D

Acq: 17 Jul 2020 15:02

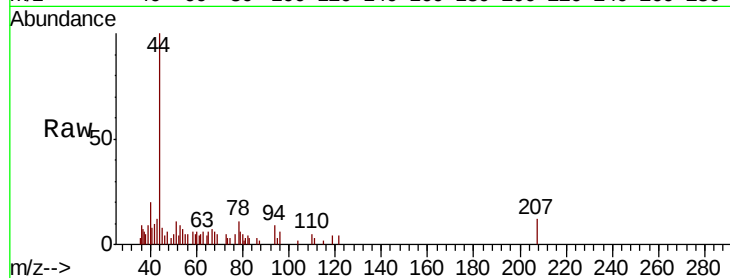
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 94 Resp: 305

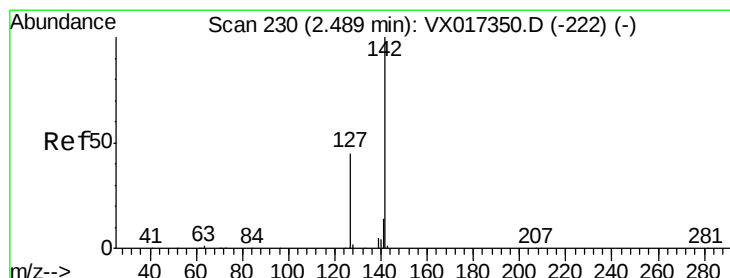
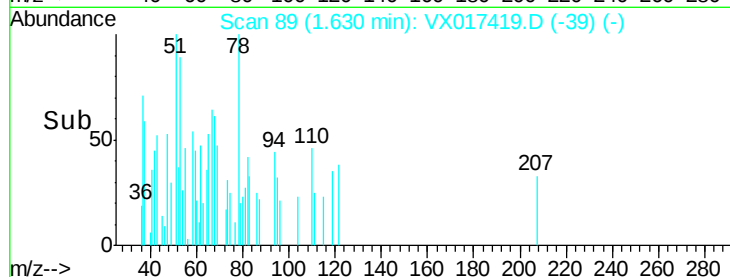
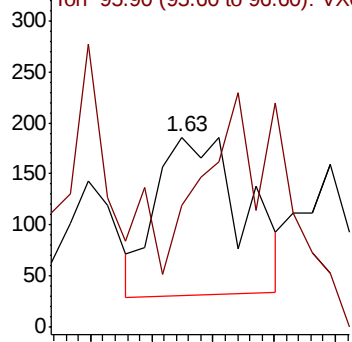
Ion Ratio Lower Upper

94 100

96 30.4 76.6 115.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0
Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 2.429 ug/l

RT: 2.50 min Scan# 232

Delta R.T. 0.01 min

Lab File: VX017419.D

Acq: 17 Jul 2020 15:02

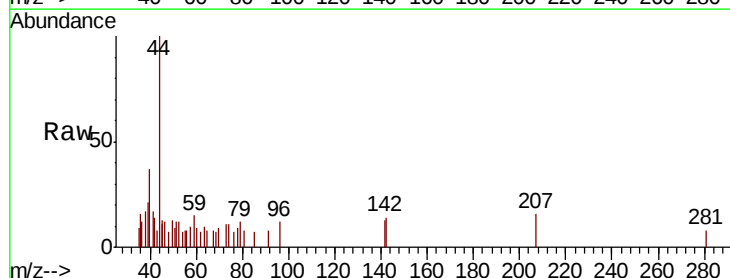
Tgt Ion: 142 Resp: 170

Ion Ratio Lower Upper

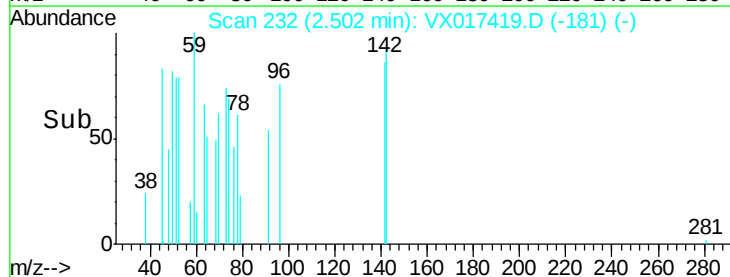
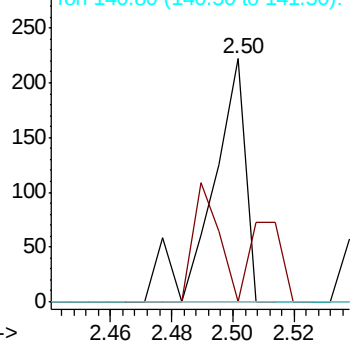
142 100

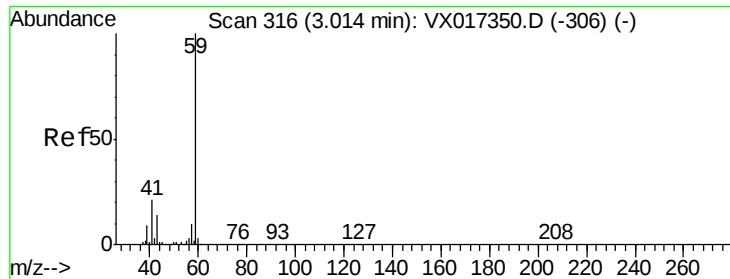
127 31.2 36.8 55.2#

141 0.0 11.4 17.0#



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



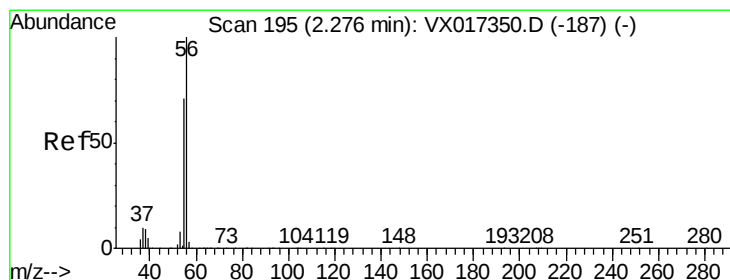
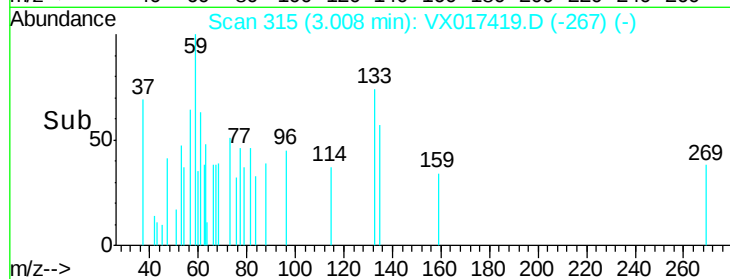
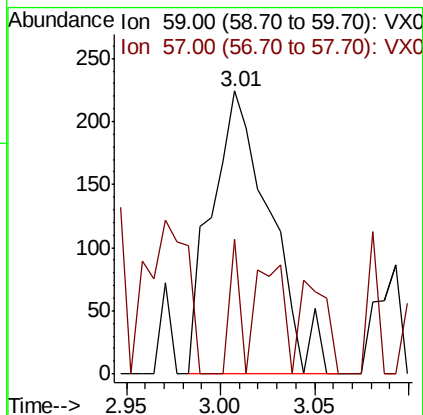
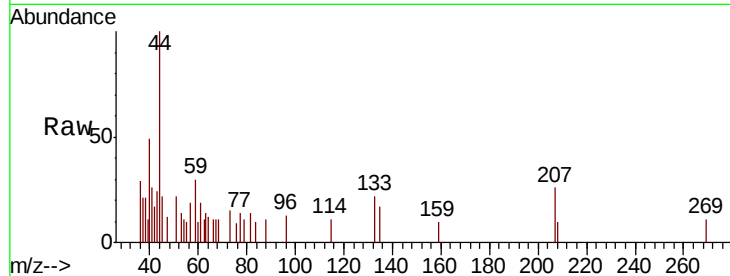


#11

Tert butyl alcohol
 Concen: 0.938 ug/l
 RT: 3.01 min Scan# 315
 Delta R.T. -0.01 min
 Lab File: VX017419.D
 Acq: 17 Jul 2020 15:02

Instrument :
 MSVOA_X
 ClientSampled :

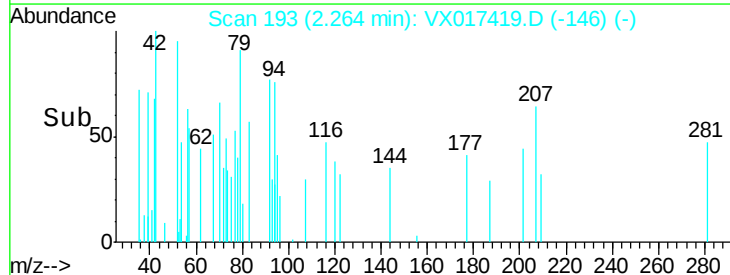
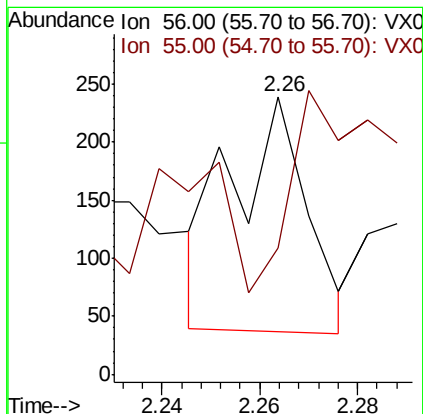
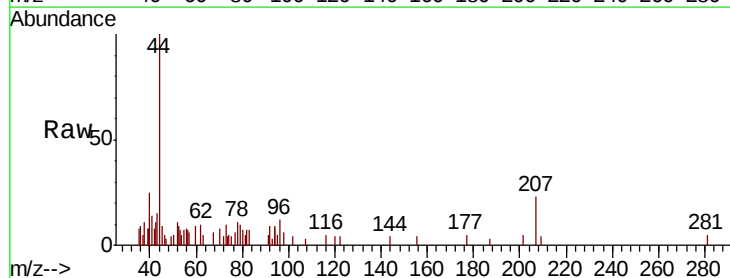
Tot Ion: 59 Resp: 483
 Ion Ratio Lower Upper
 59 100
 57 8.1 8.3 12.5#

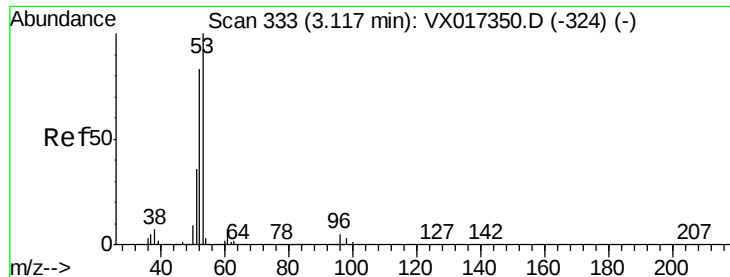


#13

Acrolein
 Concen: 0.762 ug/l
 RT: 2.26 min Scan# 193
 Delta R.T. -0.01 min
 Lab File: VX017419.D
 Acq: 17 Jul 2020 15:02

Tgt Ion: 56 Resp: 215
 Ion Ratio Lower Upper
 56 100
 55 137.7 57.1 85.7#





#15

Acrylonitrile

Concen: 0.262 ug/l

RT: 3.13 min Scan# 335

Delta R.T. 0.01 min

Lab File: VX017419.D

Acq: 17 Jul 2020 15:02

Instrument :
MSVOA_X
ClientSampled :

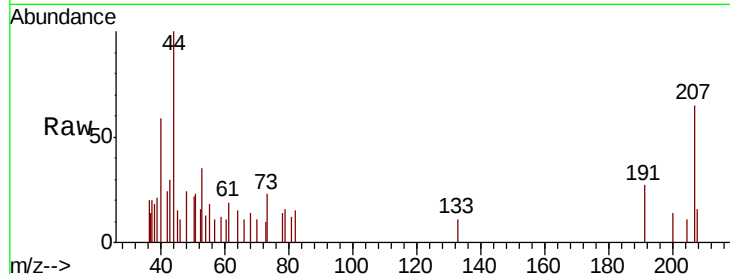
Tot Ion: 53 Resp: 327

Ion Ratio Lower Upper

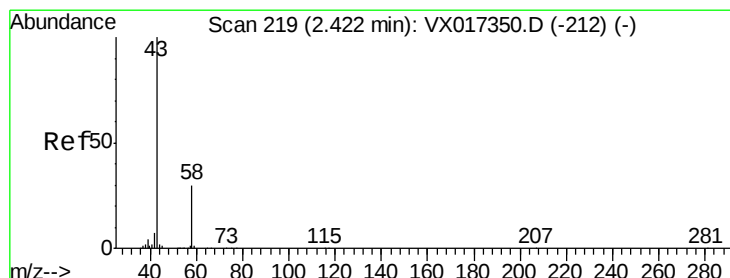
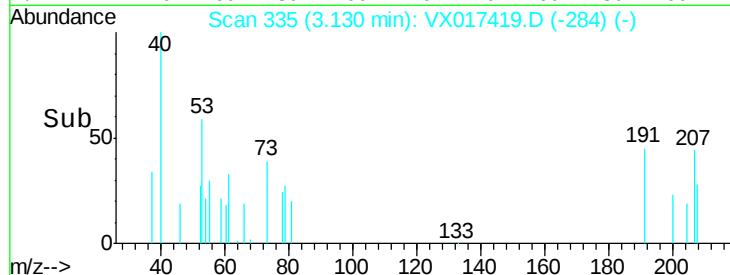
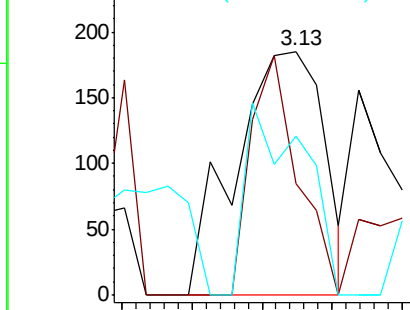
53 100

52 52.0 65.8 98.6#

51 52.0 29.2 43.8#



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: 6.396 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.00 min

Lab File: VX017419.D

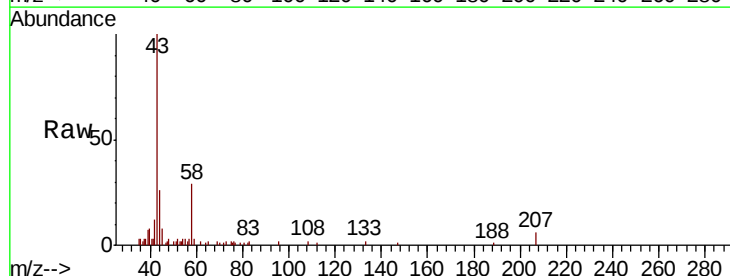
Acq: 17 Jul 2020 15:02

Tgt Ion: 43 Resp: 6974

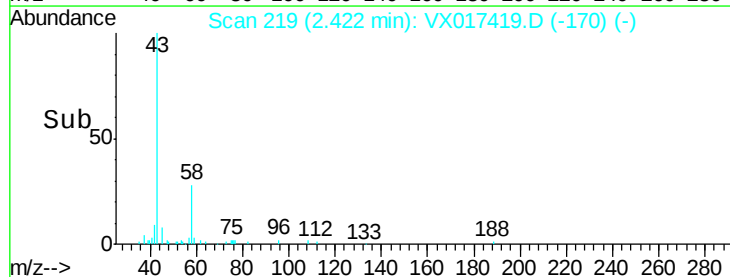
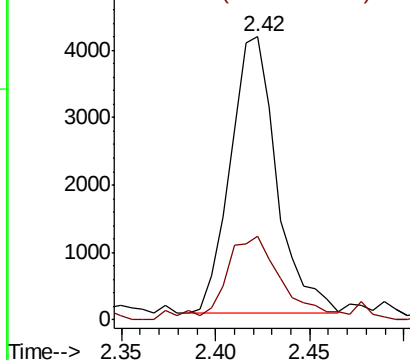
Ion Ratio Lower Upper

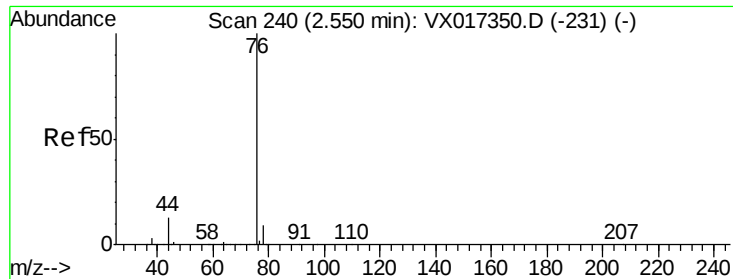
43 100

58 27.1 24.2 36.2



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

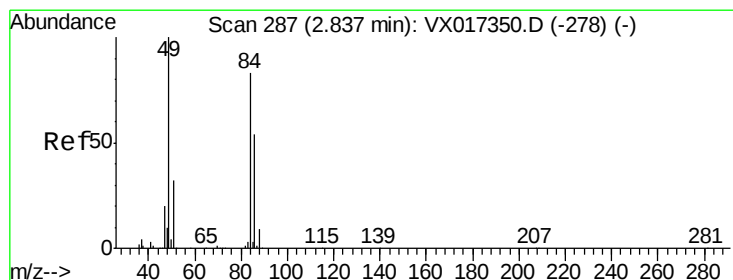
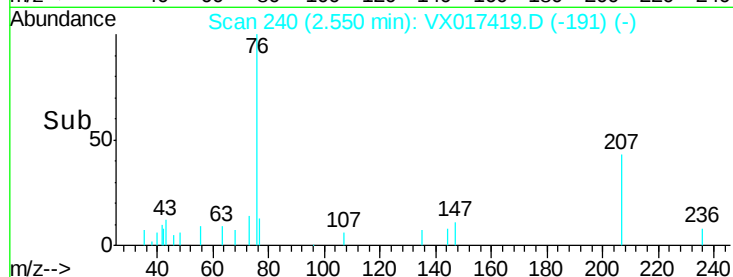
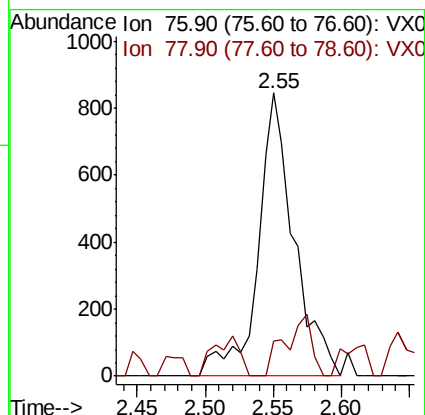
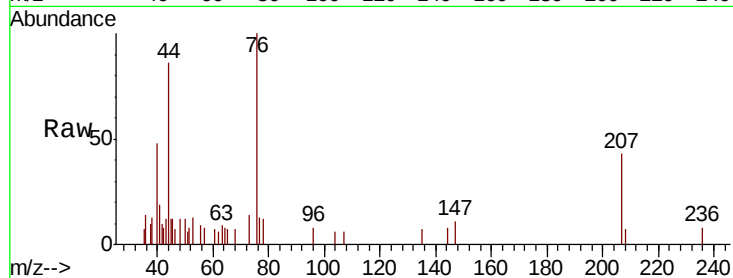




#17
Carbon Disulfide
Concen: 0.242 ug/l
RT: 2.55 min Scan# 240
Delta R.T. 0.00 min
Lab File: VX017419.D
Acq: 17 Jul 2020 15:02

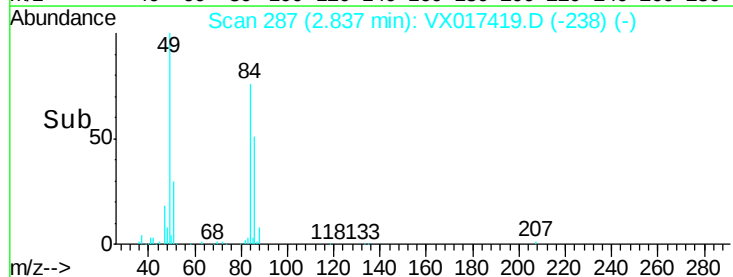
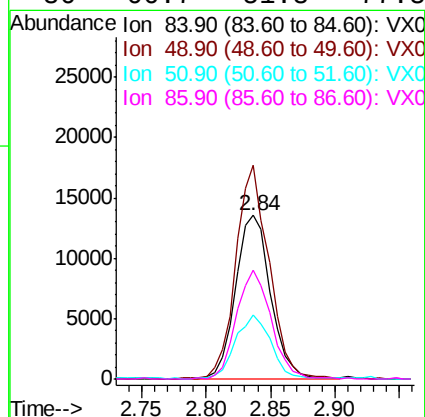
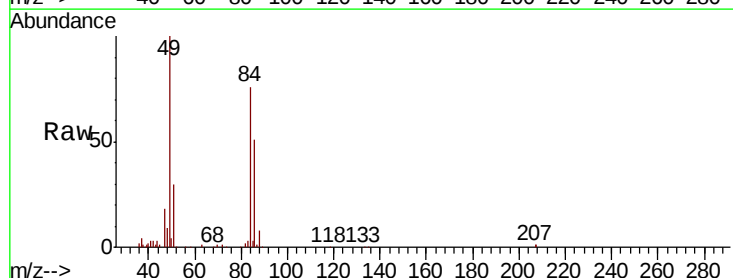
Instrument :
MSVOA_X
ClientSampleId :

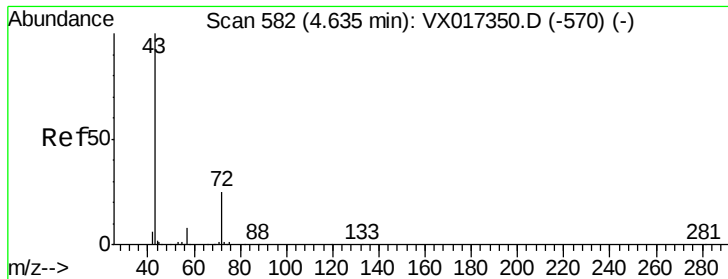
Tot Ion: 76 Resp: 1567
Ion Ratio Lower Upper
76 100
78 12.3 7.3 10.9#



#20
Methylene Chloride
Concen: 9.597 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017419.D
Acq: 17 Jul 2020 15:02

Tgt Ion: 84 Resp: 25531
Ion Ratio Lower Upper
84 100
49 130.3 95.8 143.8
51 39.1 31.0 46.4
86 66.7 51.8 77.8





#25

2-Butanone

Concen: 1.453 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX017419.D

Acq: 17 Jul 2020 15:02

Instrument :

MSVOA_X

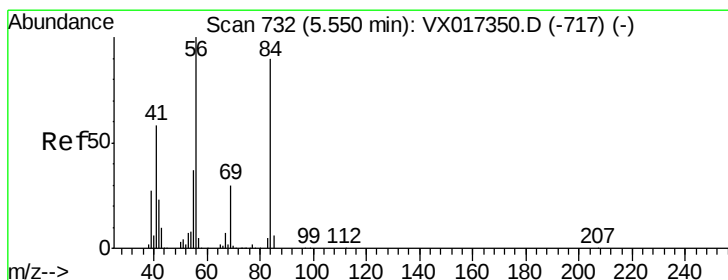
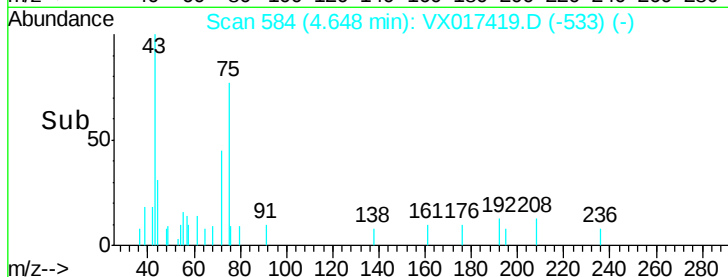
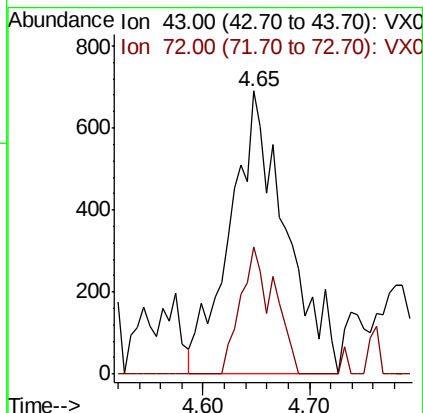
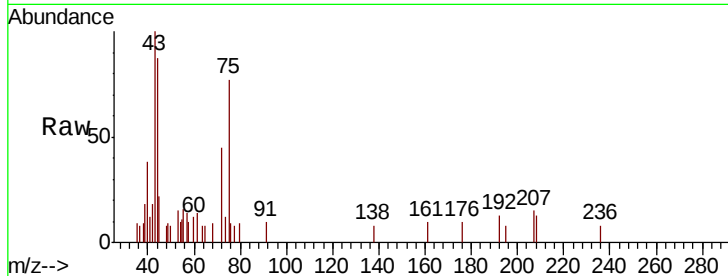
ClientSampleId :

Tot Ion: 43 Resp: 2516

Ion Ratio Lower Upper

43 100

72 45.1 20.4 30.6#



#31

Cyclohexane

Concen: 1.577 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.08 min

Lab File: VX017419.D

Acq: 17 Jul 2020 15:02

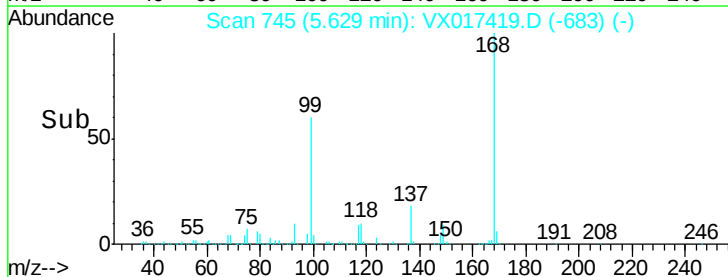
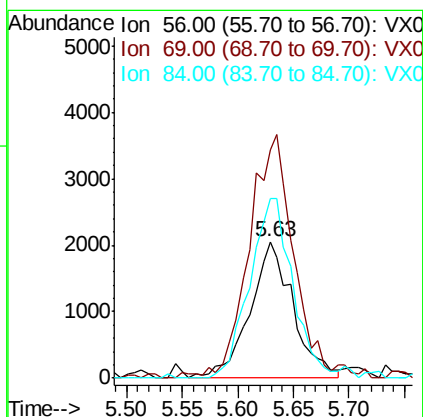
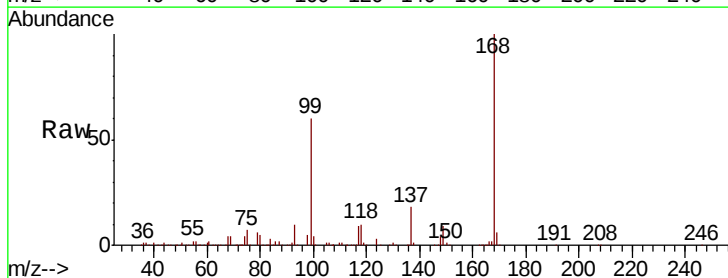
Tgt Ion: 56 Resp: 5548

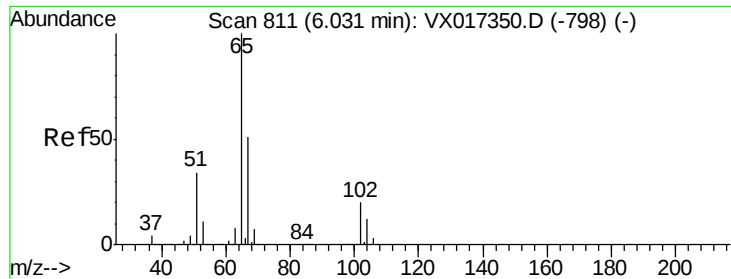
Ion Ratio Lower Upper

56 100

69 160.5 23.7 35.5#

84 128.5 71.8 107.6#

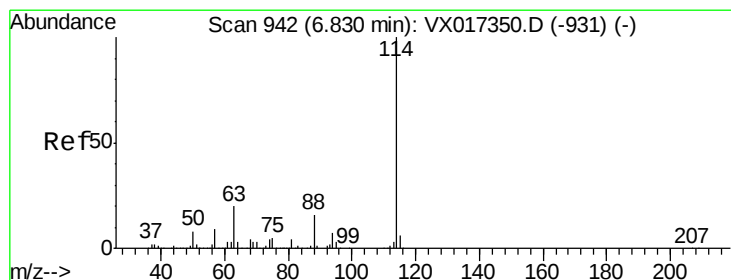
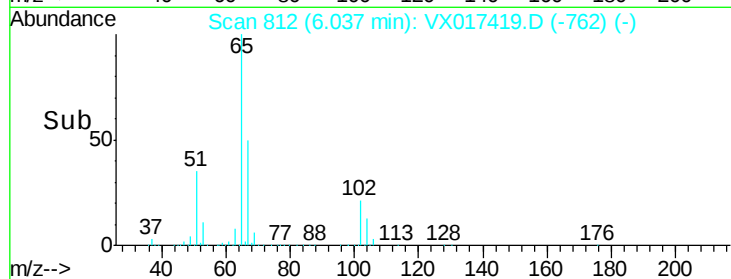
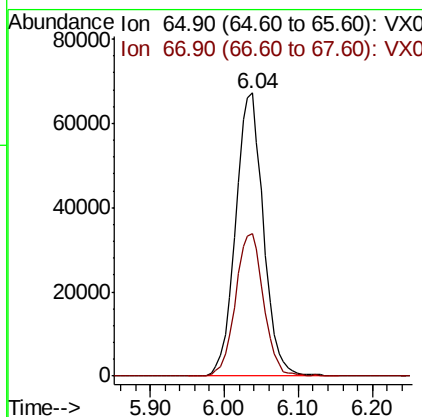
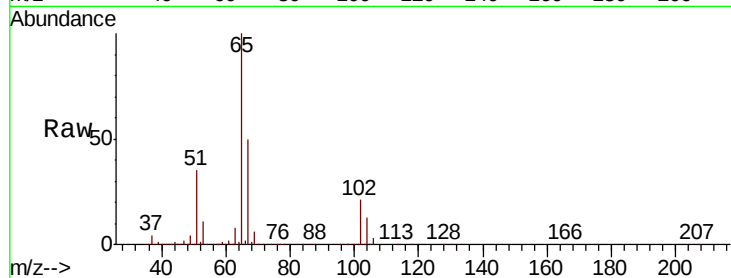




#33
 1,2-Dichloroethane-d4
 Concen: 57.547 ug/l
 RT: 6.04 min Scan# 812
 Delta R.T. 0.01 min
 Lab File: VX017419.D
 Acq: 17 Jul 2020 15:02

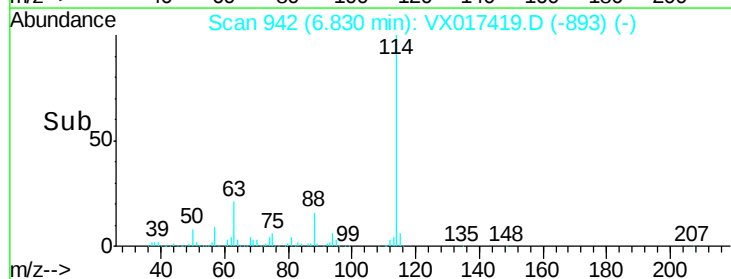
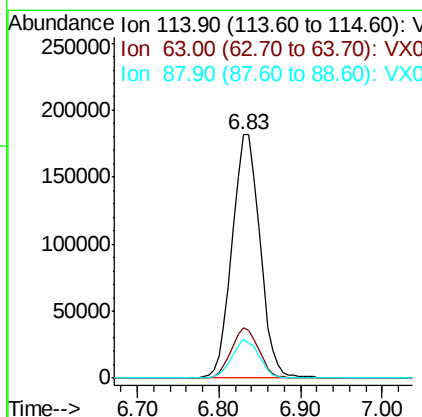
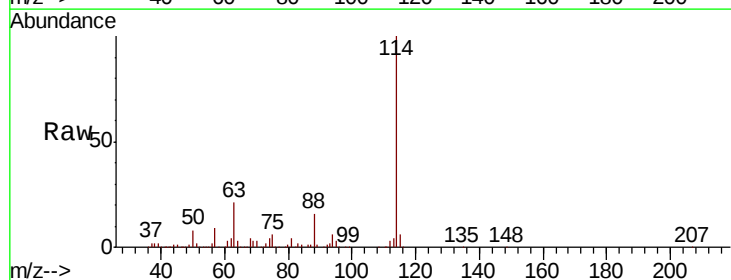
Instrument :
 MSVOA_X
 ClientSampleId :

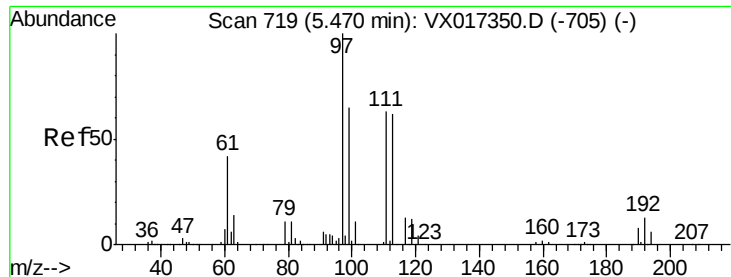
Tot Ion: 65 Resp: 175882
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 101.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.00 min
 Lab File: VX017419.D
 Acq: 17 Jul 2020 15:02

Tgt Ion: 114 Resp: 429443
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 40.0
 88 16.0 0.0 32.8

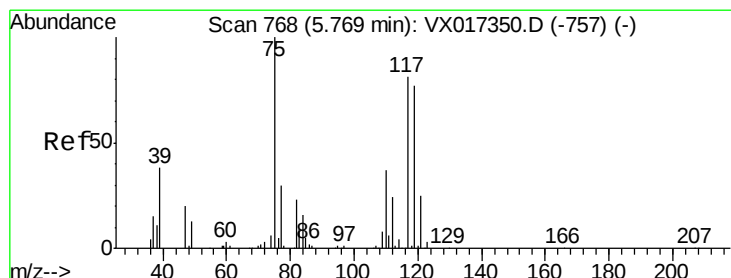
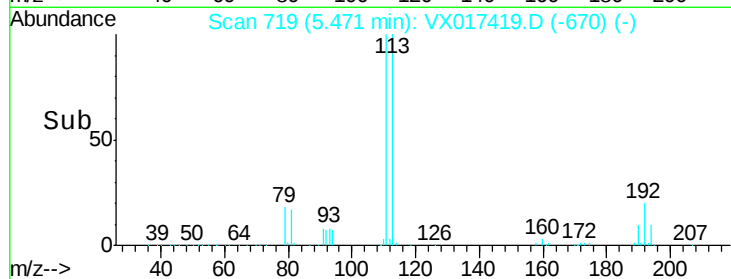
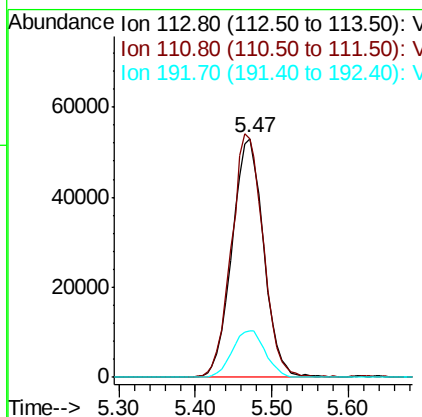
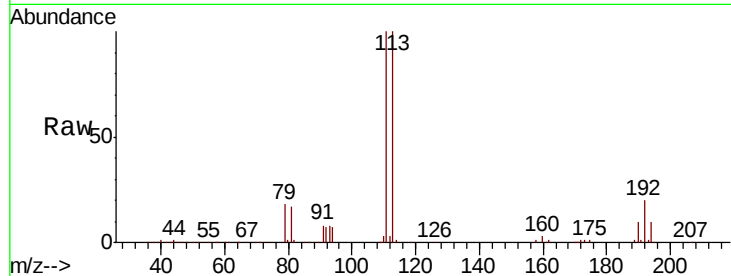




#35
 Dibromofluoromethane
 Concen: 52.551 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. 0.00 min
 Lab File: VX017419.D
 Acq: 17 Jul 2020 15:02

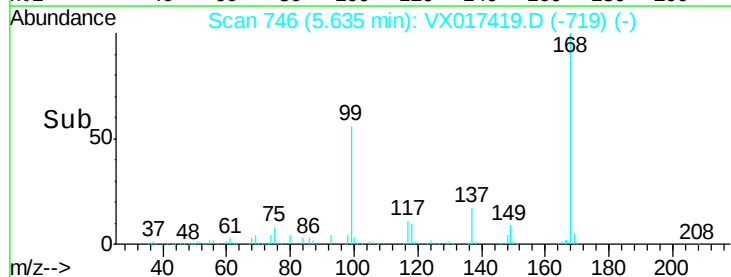
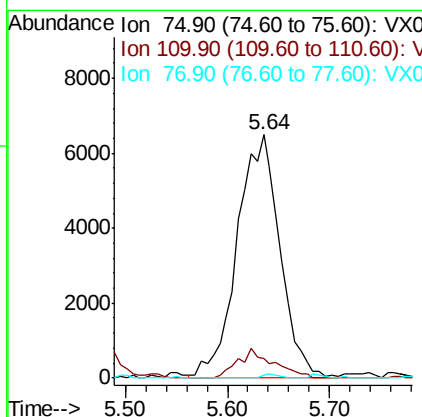
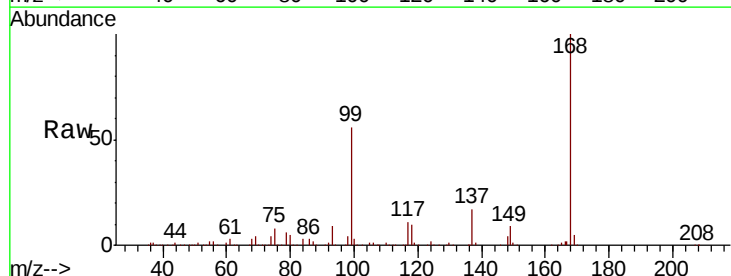
Instrument :
 MSVOA_X
 ClientSampleId :

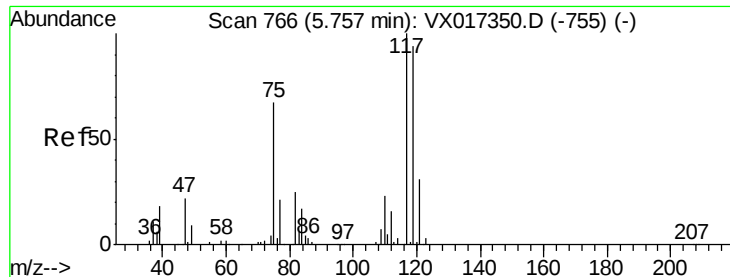
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.0	82.4	123.6
192	20.6	17.2	25.8



#36
 1,1-Dichloropropene
 Concen: 4.799 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX017419.D
 Acq: 17 Jul 2020 15:02

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.1	18.6	55.8#
77	0.6	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 5.389 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017419.D

Acq: 17 Jul 2020 15:02

Instrument :

MSVOA_X

ClientSampleId :

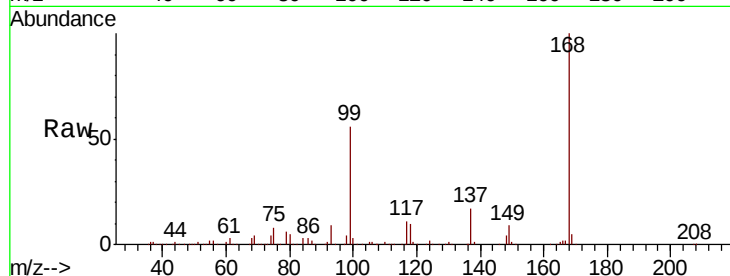
Tot Ion:117 Resp: 24923

Ion Ratio Lower Upper

117 100

119 5.8 74.7 112.1#

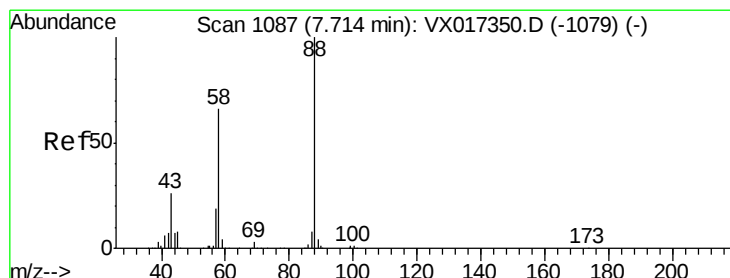
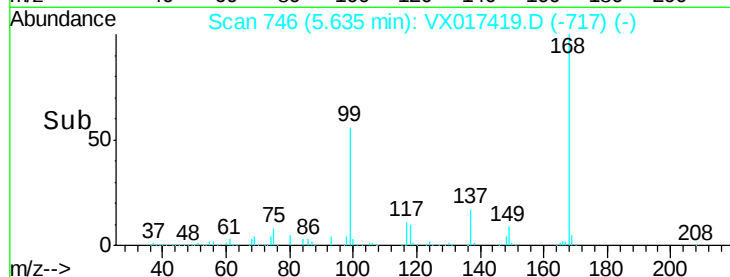
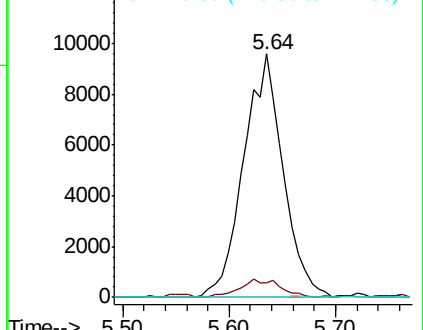
121 0.0 24.5 36.7#



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: 1.076 ug/l

RT: 7.68 min Scan# 1082

Delta R.T. -0.03 min

Lab File: VX017419.D

Acq: 17 Jul 2020 15:02

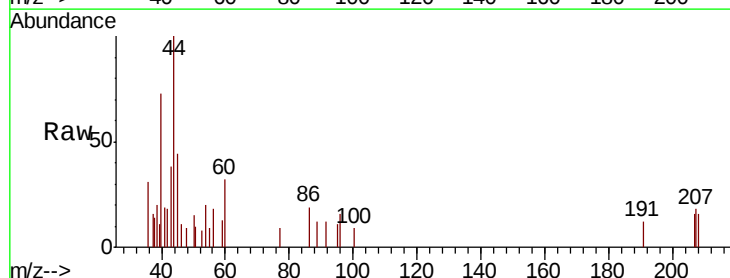
Tgt Ion: 88 Resp: 69

Ion Ratio Lower Upper

88 100

43 165.2 25.6 38.4#

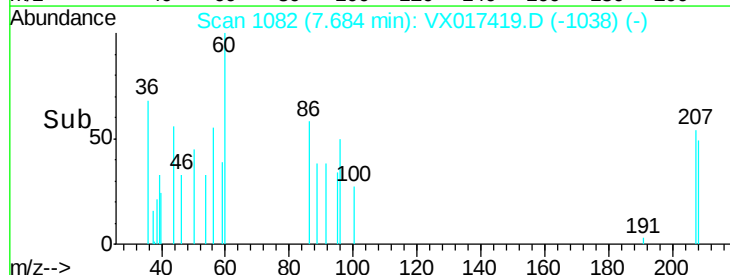
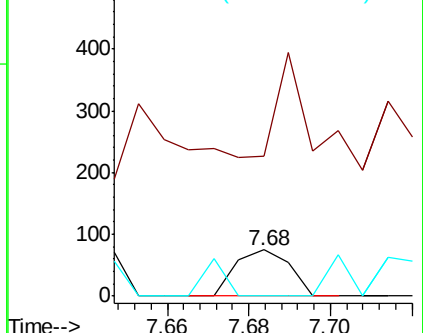
58 31.9 53.9 80.9#

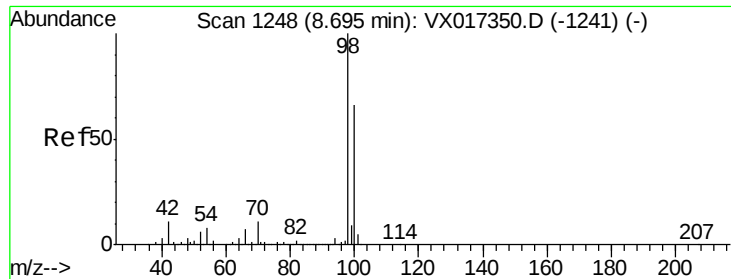


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

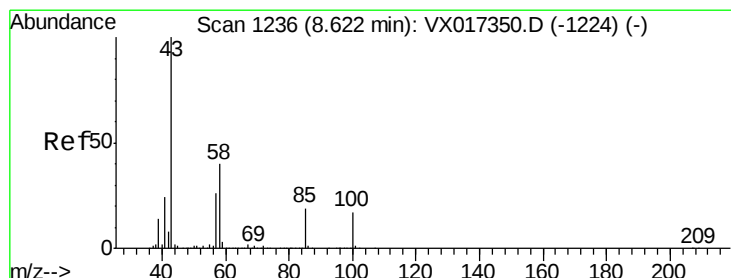
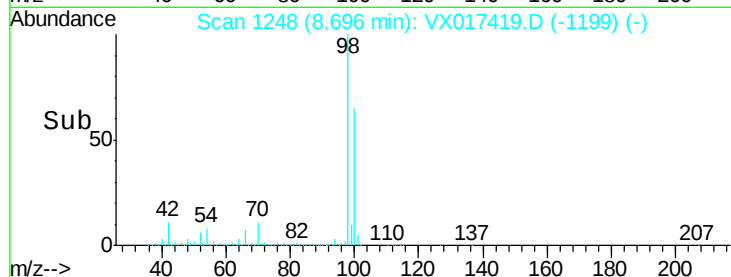
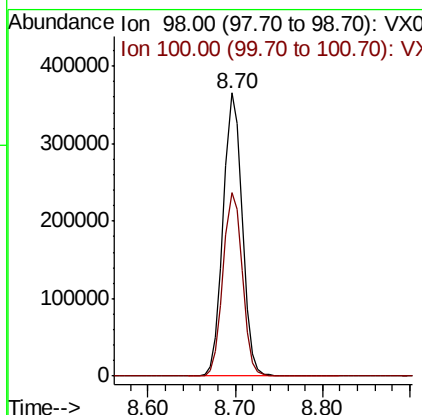
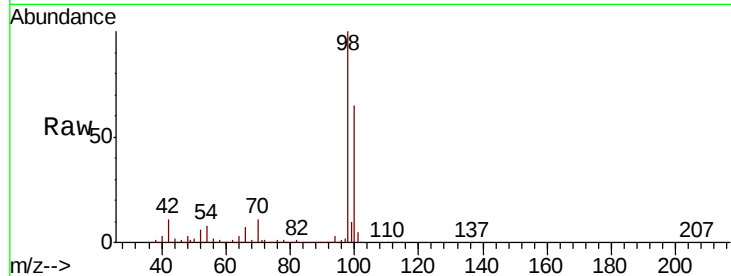




#50
Toluene-d8
Concen: 52.953 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX017419.D
Acq: 17 Jul 2020 15:02

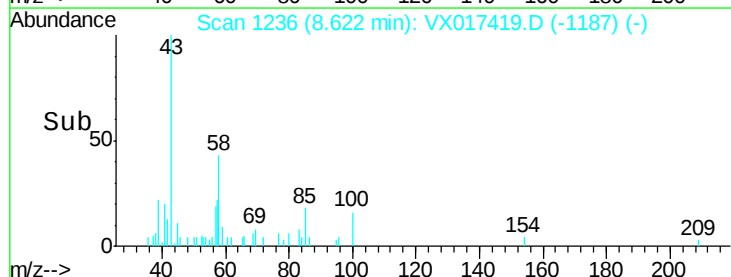
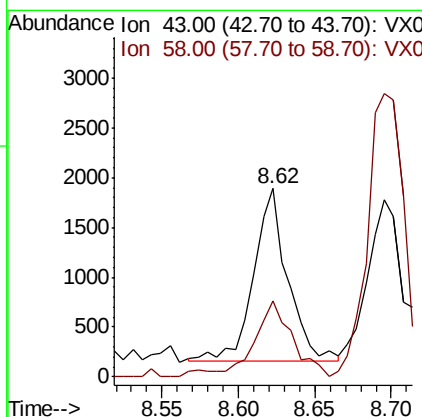
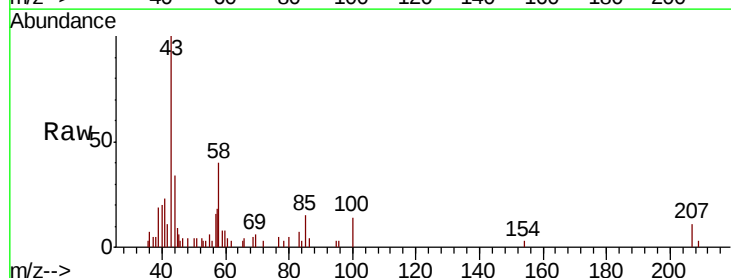
Instrument :
MSVOA_X
ClientSampleId :

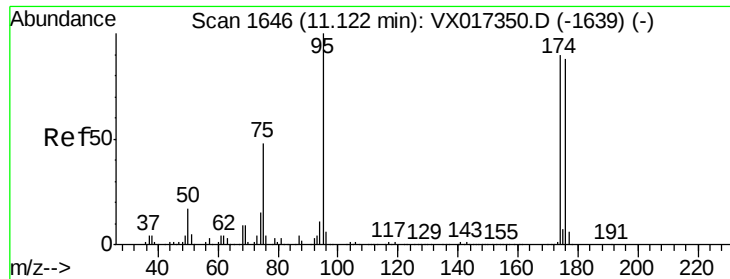
Tot Ion: 98 Resp: 552552
Ion Ratio Lower Upper
98 100
100 65.3 53.4 80.2



#51
4-Methyl-2-Pentanone
Concen: 0.670 ug/l
RT: 8.62 min Scan# 1236
Delta R.T. 0.00 min
Lab File: VX017419.D
Acq: 17 Jul 2020 15:02

Tgt Ion: 43 Resp: 2668
Ion Ratio Lower Upper
43 100
58 51.5 32.2 48.2#





#62

4-Bromofluorobenzene

Concen: 54.119 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX017419.D

Acq: 17 Jul 2020 15:02

Instrument :

MSVOA_X

ClientSampleId :

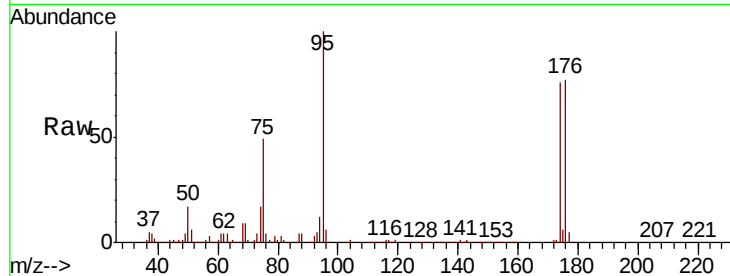
Tot Ion: 95 Resp: 224316

Ion Ratio Lower Upper

95 100

174 80.0 0.0 175.8

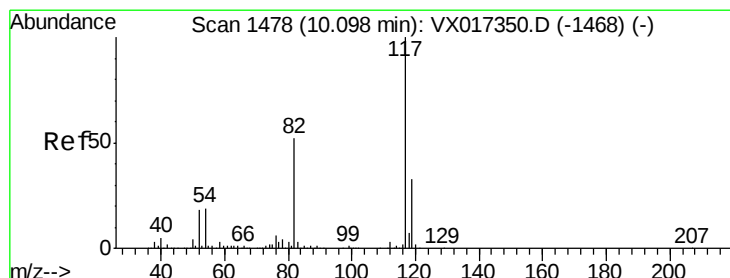
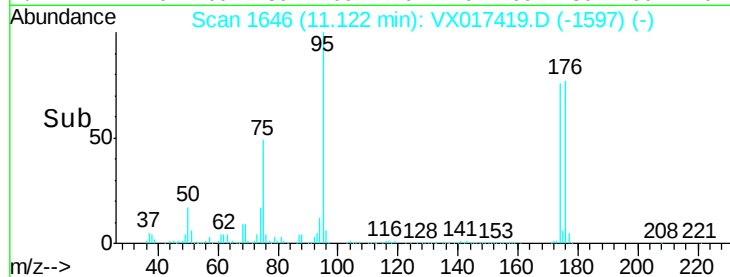
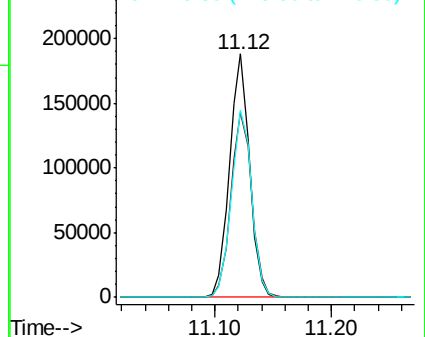
176 78.8 0.0 164.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX017419.D

Acq: 17 Jul 2020 15:02

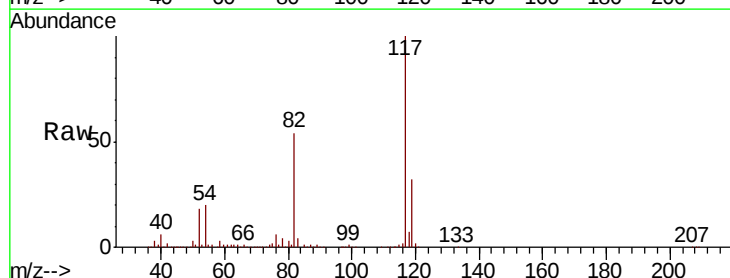
Tgt Ion: 117 Resp: 466121

Ion Ratio Lower Upper

117 100

82 53.9 42.0 63.0

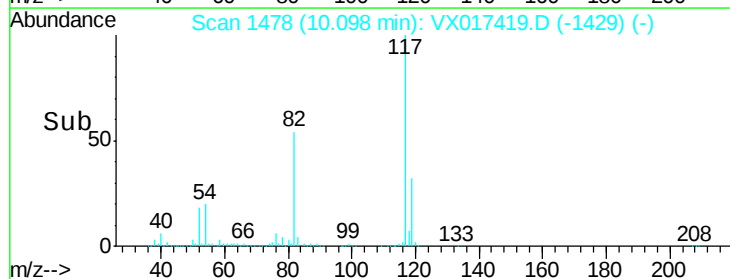
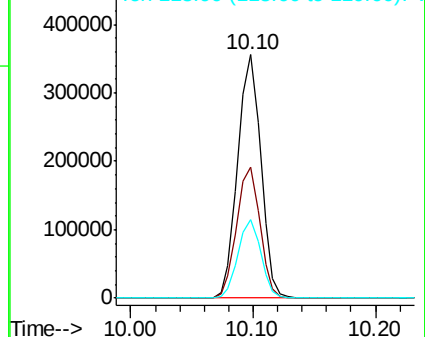
119 32.4 26.3 39.5

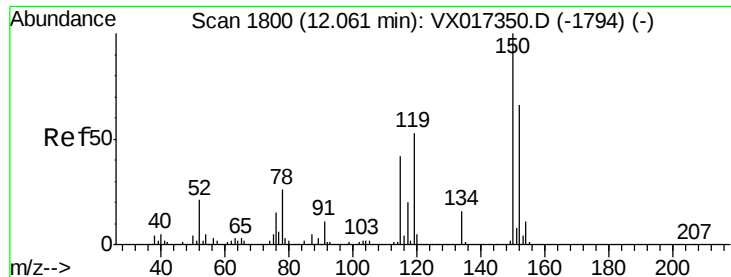


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX017419.D

Acq: 17 Jul 2020 15:02

Instrument :

MSVOA_X

ClientSampleId :

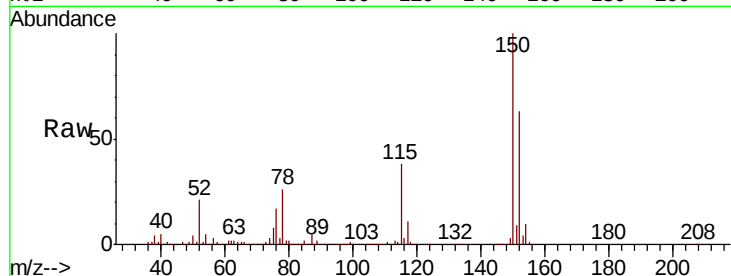
Tot Ion:152 Resp: 245026

Ion Ratio Lower Upper

152 100

115 58.1 39.9 119.7

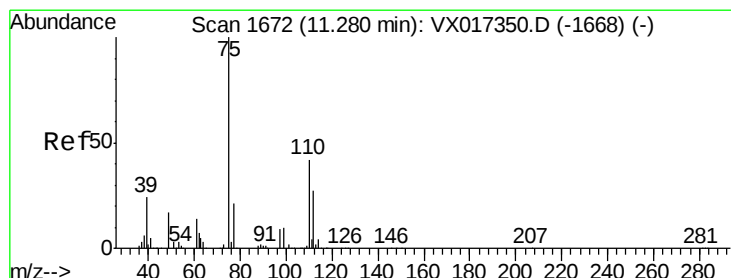
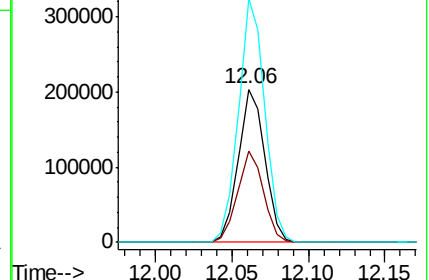
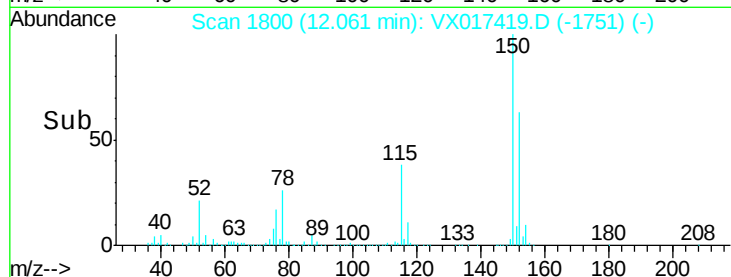
150 157.3 0.0 343.4



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



#76

1,2,3-Trichloropropane

Concen: 24.610 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017419.D

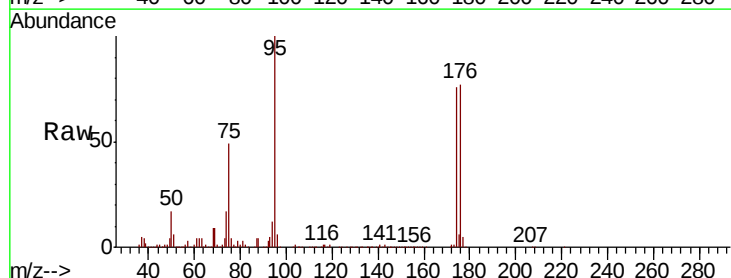
Acq: 17 Jul 2020 15:02

Tgt Ion: 75 Resp: 111427

Ion Ratio Lower Upper

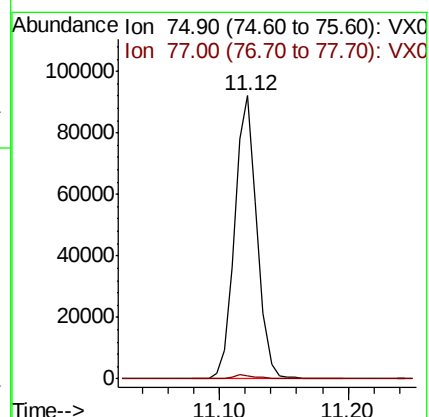
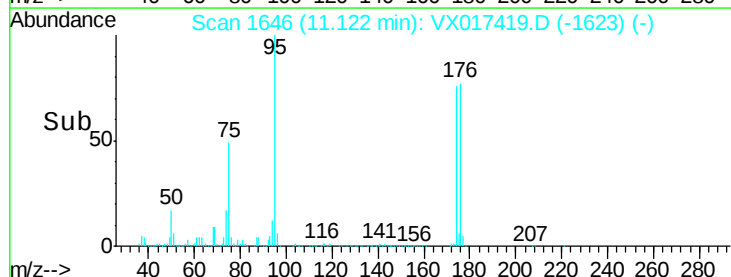
75 100

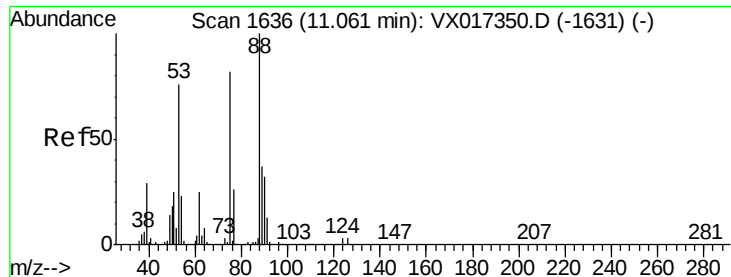
77 1.5 20.3 60.9#



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: 62.431 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017419.D

Acq: 17 Jul 2020 15:02

Instrument :

MSVOA_X

ClientSampleId :

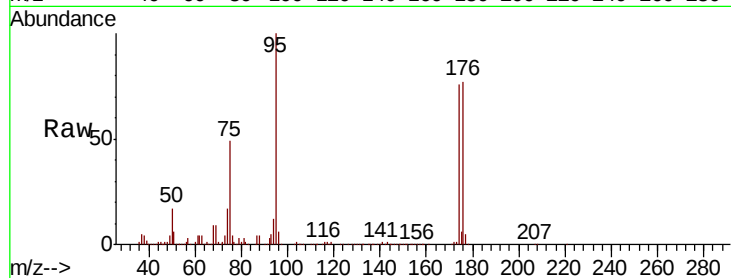
Tot Ion: 75 Resp: 111427

Ion Ratio Lower Upper

75 100

53 0.4 76.5 114.7#

89 0.1 38.1 57.1#



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

