

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080519\
 Data File : VX011327.D
 Acq On : 05 Aug 2019 15:40
 Operator : JC/SP
 Sample : K4129-16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 06 02:38:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	190888	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	278520	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	253586	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	112780	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	91224	47.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.90%	
35) Dibromofluoromethane	5.49	113	83494	45.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.84%	
50) Toluene-d8	8.71	98	331853	48.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.70%	
62) 4-Bromofluorobenzene	11.13	95	103743	42.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.66%	

Target Compounds

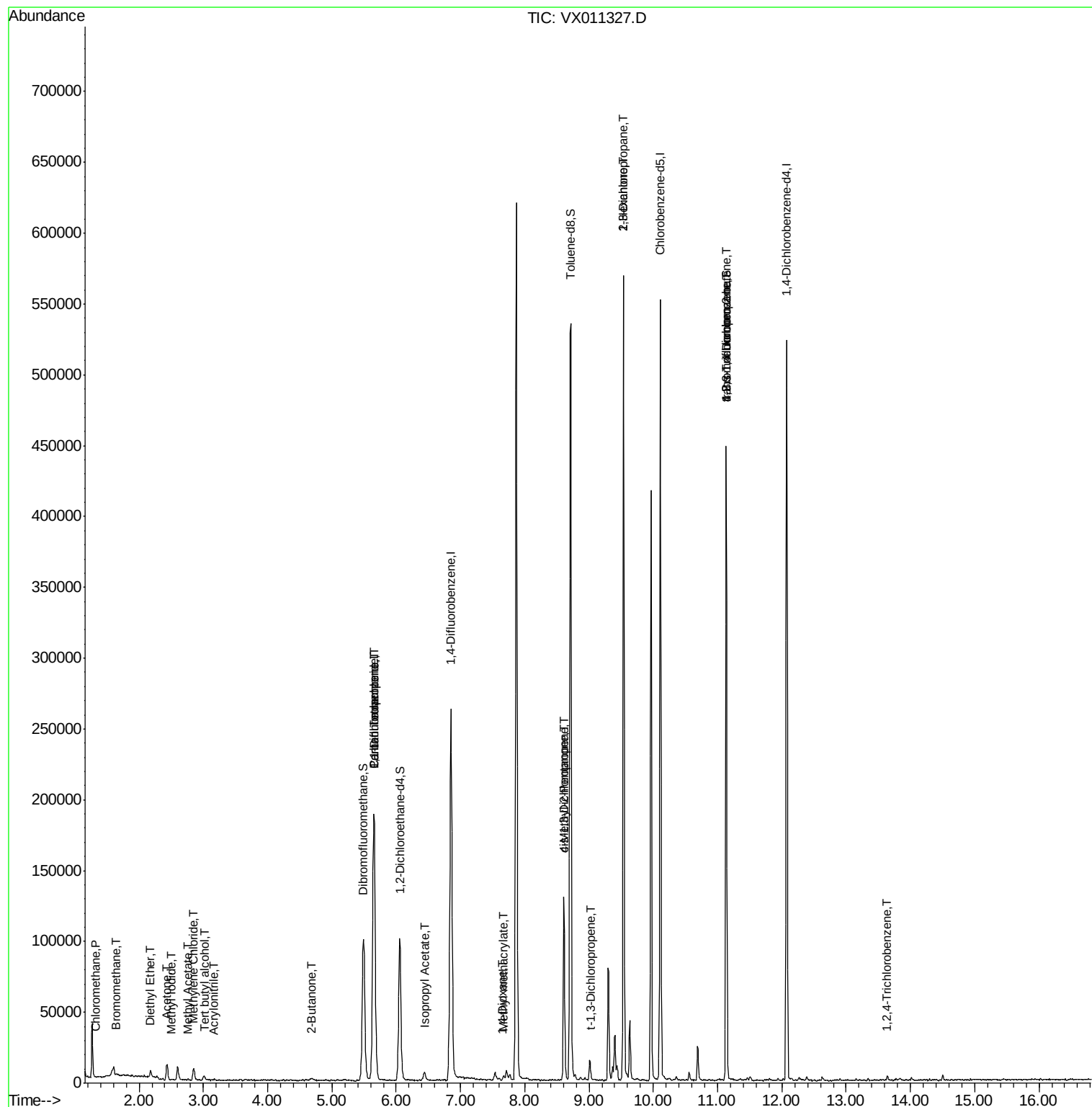
					Qvalue	
3) Chloromethane	1.32	50	377	0.228	ug/l	89
5) Bromomethane	1.64	94	504	0.388	ug/l #	54
6) Chloroethane	1.71	64	272	Below Cal	#	62
8) Diethyl Ether	2.18	74	1740	1.505	ug/l	88
10) Methyl Iodide	2.51	142	502	0.227	ug/l #	89
11) Tert butyl alcohol	3.01	59	1829	4.794	ug/l #	90
13) Acrolein	2.28	56	64	Below Cal		93
15) Acrylonitrile	3.15	53	233	0.255	ug/l #	34
16) Acetone	2.43	43	12369	13.518	ug/l	97
18) Methyl Acetate	2.76	43	910	0.435	ug/l	91
20) Methylene Chloride	2.85	84	4279	2.135	ug/l #	88
25) 2-Butanone	4.68	43	1368	1.051	ug/l #	81
36) 1,1-Dichloropropene	5.65	75	12897	5.304	ug/l #	49
38) Carbon Tetrachloride	5.65	117	17758	7.259	ug/l #	15
43) Isopropyl Acetate	6.44	43	8438	2.164	ug/l	97
48) Methyl methacrylate	7.67	41	3802	2.072	ug/l #	11
49) 1,4-Dioxane	7.65	88	60	1.128	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	40405	16.054	ug/l #	50
53) t-1,3-Dichloropropene	9.04	75	194	2.906	ug/l #	42
54) cis-1,3-Dichloropropene	8.61	75	20834	7.678	ug/l #	64
57) 1,3-Dichloropropane	9.54	76	5103	1.636	ug/l #	43
59) 2-Hexanone	9.54	43	62028	31.819	ug/l #	51
76) 1,2,3-Trichloropropane	11.13	75	53039	25.824	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	53039	67.241	ug/l #	10
93) 1,2,4-Trichlorobenzene	13.65	180	652	0.259	ug/l	86

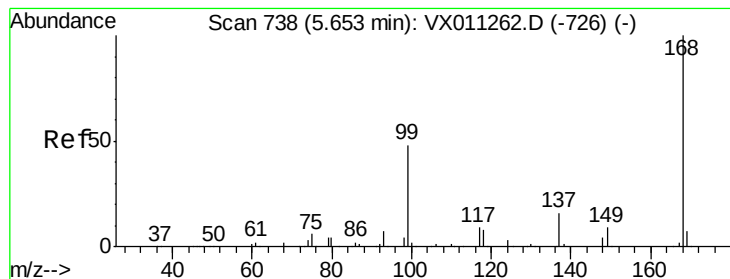
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Aug 02 01:55:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011327.D

Acq: 05 Aug 2019 15:40

Instrument :

MSVOA_X

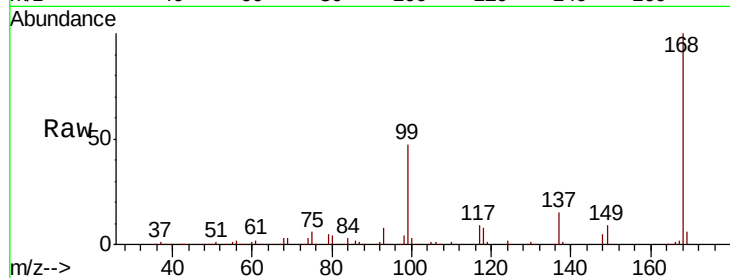
ClientSampleId :

Tot Ion:168 Resp: 190888

Ion Ratio Lower Upper

168 100

99 47.0 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

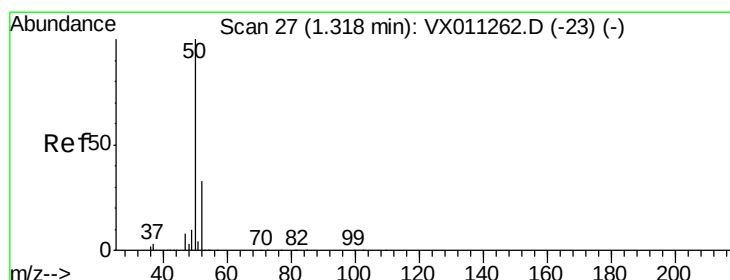
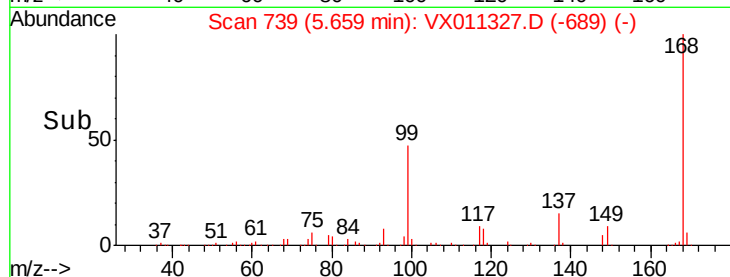
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.228 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX011327.D

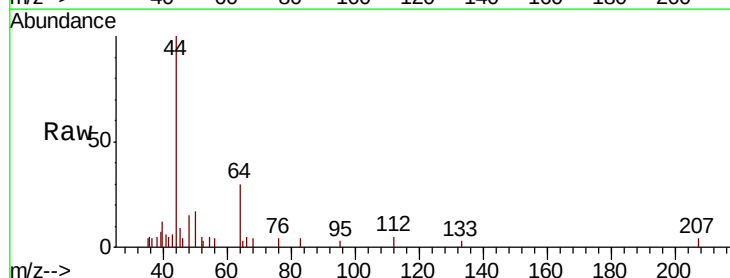
Acq: 05 Aug 2019 15:40

Tgt Ion: 50 Resp: 377

Ion Ratio Lower Upper

50 100

52 26.9 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

400

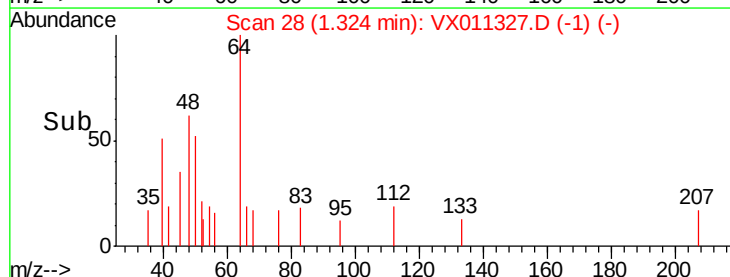
300

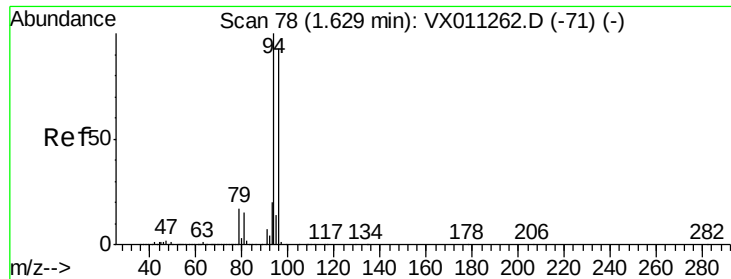
200

100

0

Time--> 1.28 1.30 1.32 1.34





#5

Bromomethane

Concen: 0.388 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.01 min

Lab File: VX011327.D

Acq: 05 Aug 2019 15:40

Instrument :

MSVOA_X

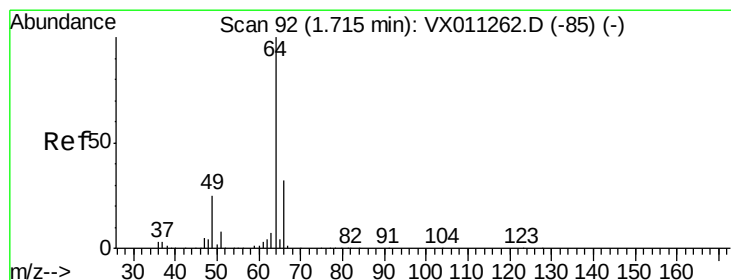
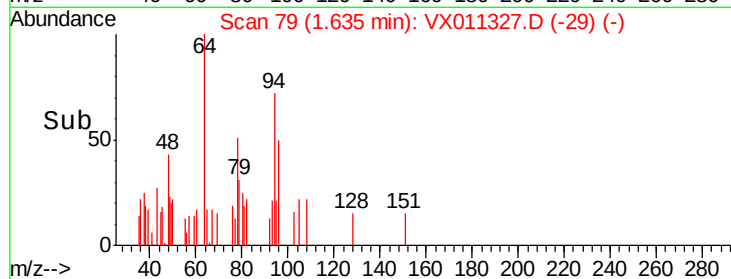
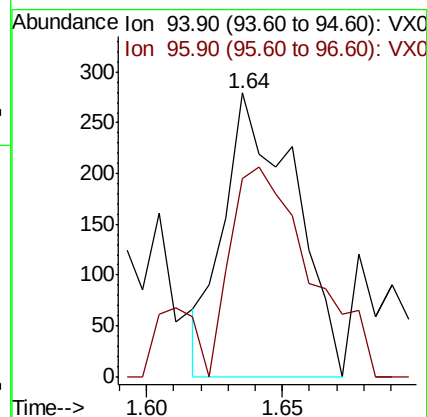
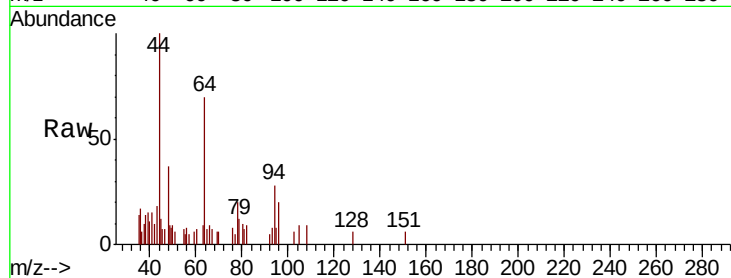
ClientSampled :

Tot Ion: 94 Resp: 504

Ion Ratio Lower Upper

94 100

96 48.7 74.6 112.0#



#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX011327.D

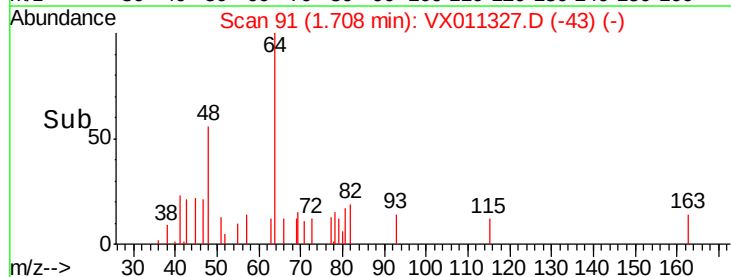
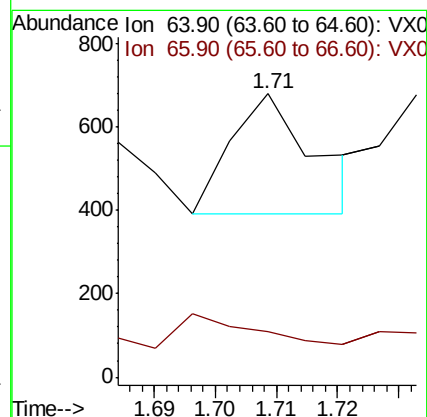
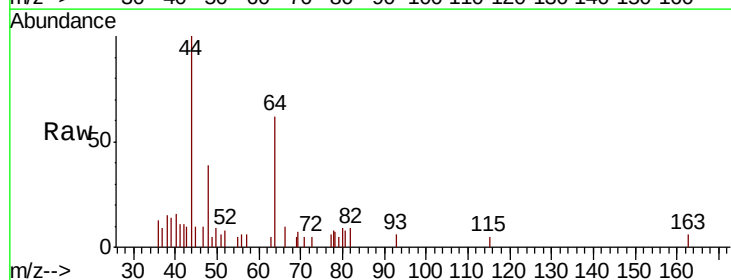
Acq: 05 Aug 2019 15:40

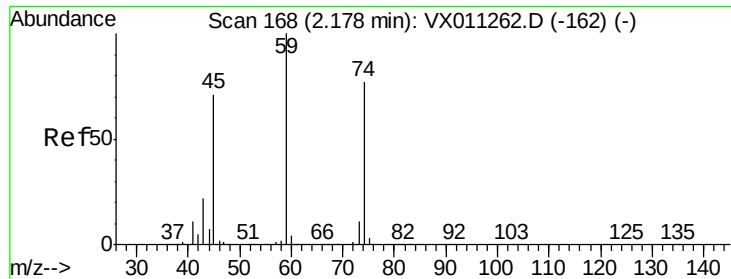
Tgt Ion: 64 Resp: 272

Ion Ratio Lower Upper

64 100

66 10.4 25.1 37.7#

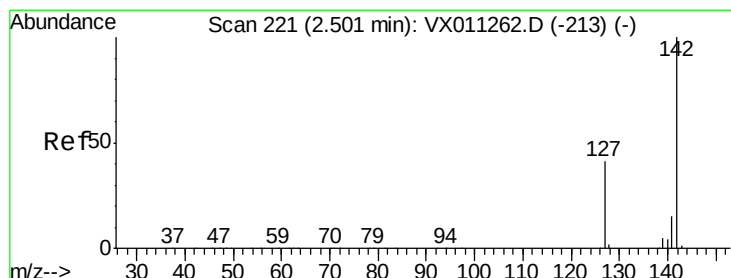
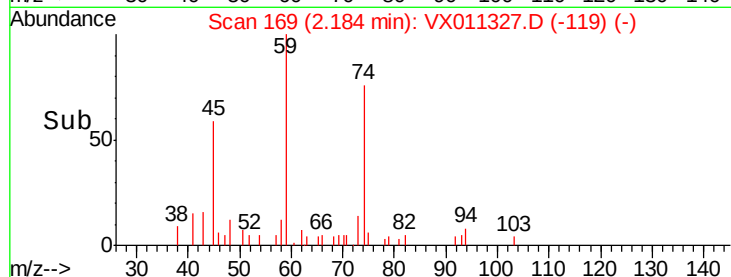
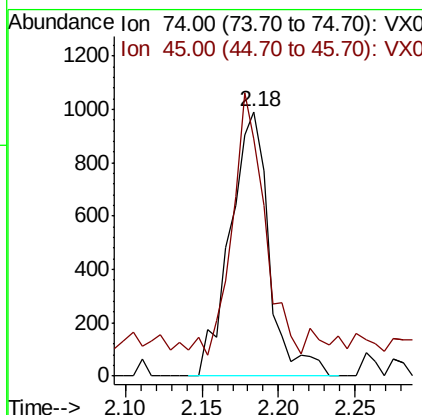
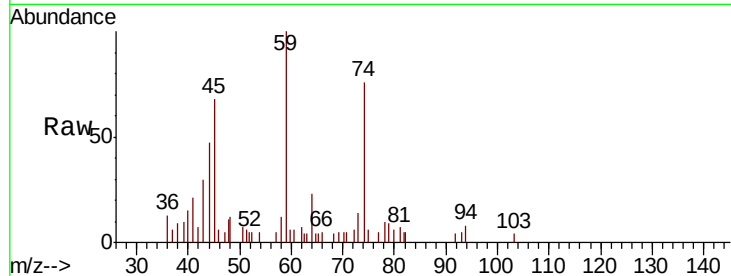




#8
Diethyl Ether
Concen: 1.505 ug/l
RT: 2.18 min Scan# 169
Delta R.T. 0.01 min
Lab File: VX011327.D
Acq: 05 Aug 2019 15:40

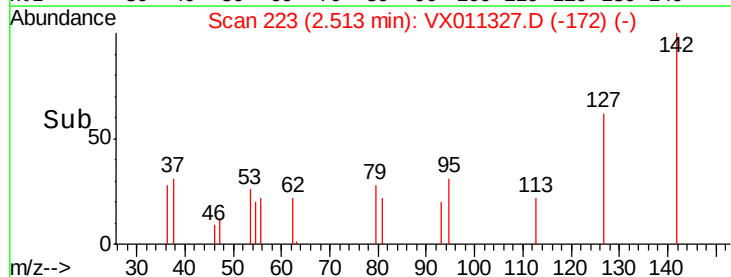
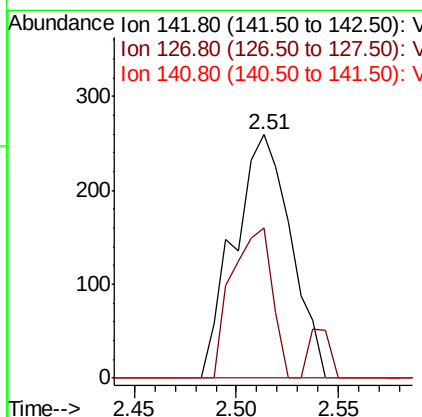
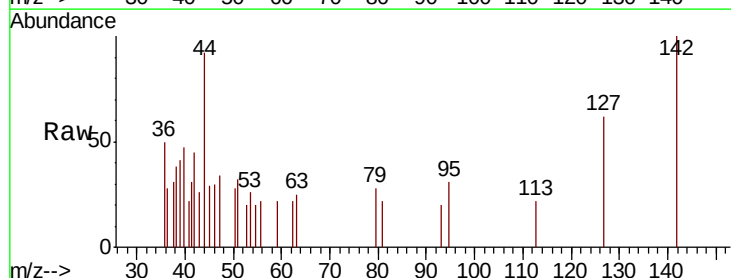
Instrument :
MSVOA_X
ClientSampleId :

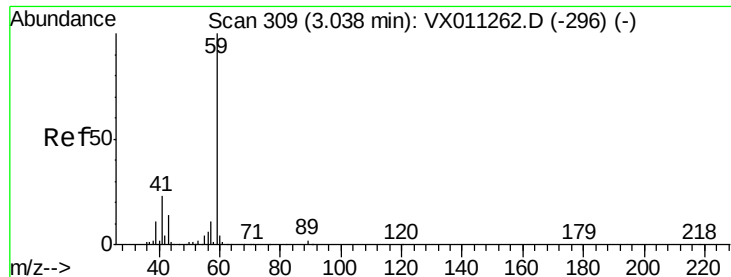
Tot Ion: 74 Resp: 1740
Ion Ratio Lower Upper
74 100
45 80.7 46.1 138.3



#10
Methyl Iodide
Concen: 0.227 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX011327.D
Acq: 05 Aug 2019 15:40

Tgt Ion:142 Resp: 502
Ion Ratio Lower Upper
142 100
127 44.0 33.8 50.8
141 0.0 11.4 17.2#



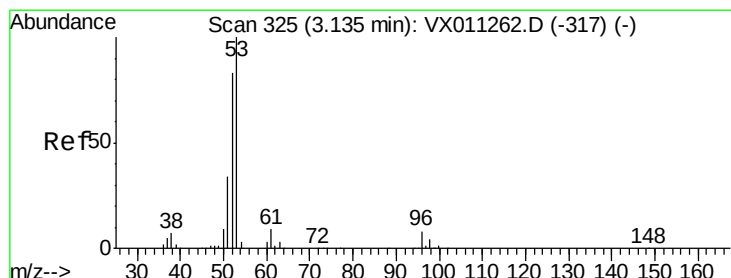
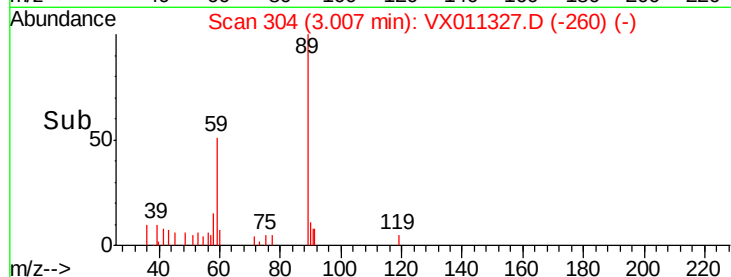
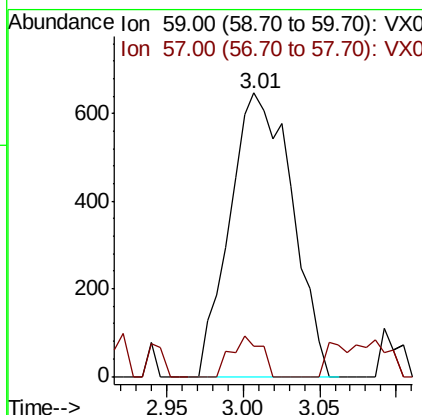
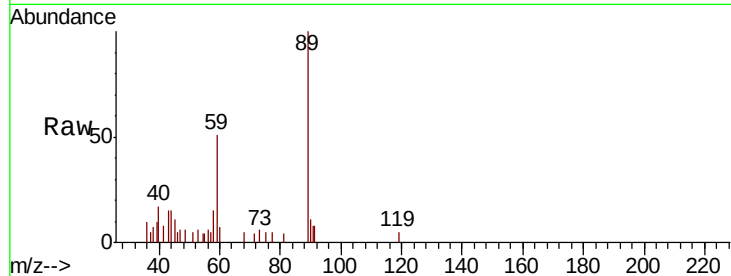


#11

Tert butyl alcohol
 Concen: 4.794 ug/l
 RT: 3.01 min Scan# 304
 Delta R.T. -0.03 min
 Lab File: VX011327.D
 Acq: 05 Aug 2019 15:40

Instrument :
 MSVOA_X
 ClientSampleId :

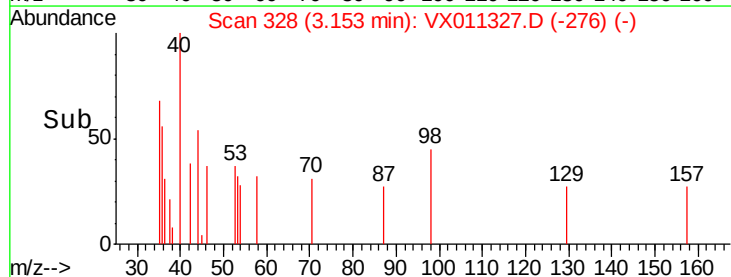
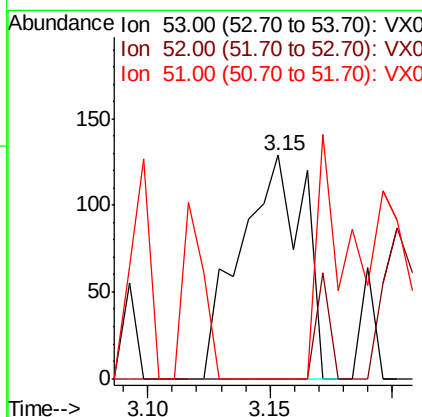
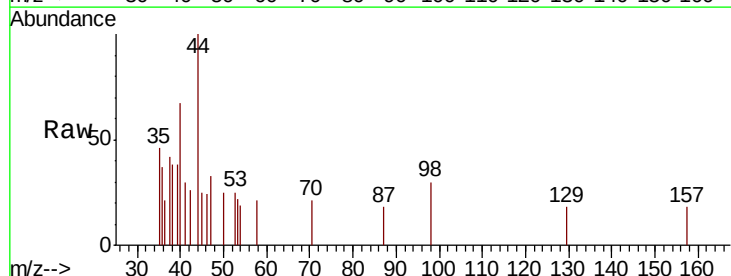
Tot Ion: 59 Resp: 1829
 Ion Ratio Lower Upper
 59 100
 57 6.8 8.3 12.5#

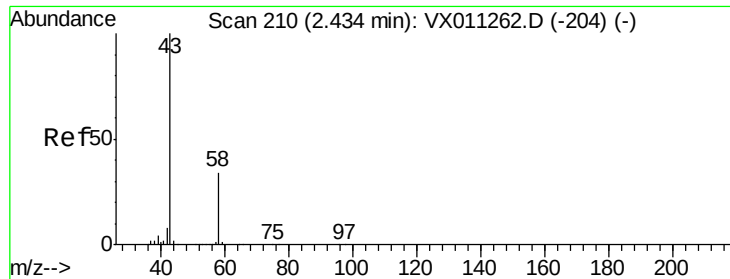


#15

Acrylonitrile
 Concen: 0.255 ug/l
 RT: 3.15 min Scan# 328
 Delta R.T. 0.02 min
 Lab File: VX011327.D
 Acq: 05 Aug 2019 15:40

Tgt Ion: 53 Resp: 233
 Ion Ratio Lower Upper
 53 100
 52 9.4 65.5 98.3#
 51 51.9 27.9 41.9#





#16

Acetone

Concen: 13.518 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011327.D

Acq: 05 Aug 2019 15:40

Instrument :

MSVOA_X

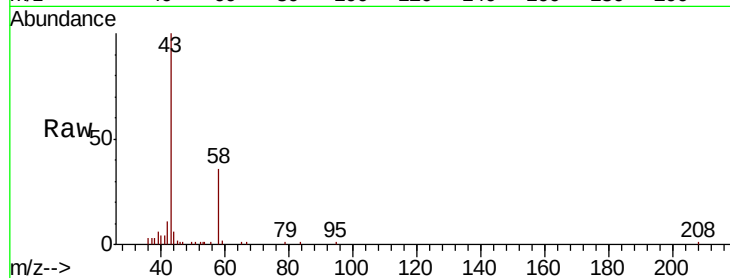
ClientSampleId :

Tot Ion: 43 Resp: 12369

Ion Ratio Lower Upper

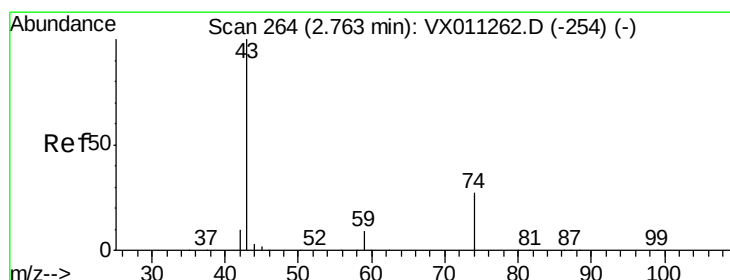
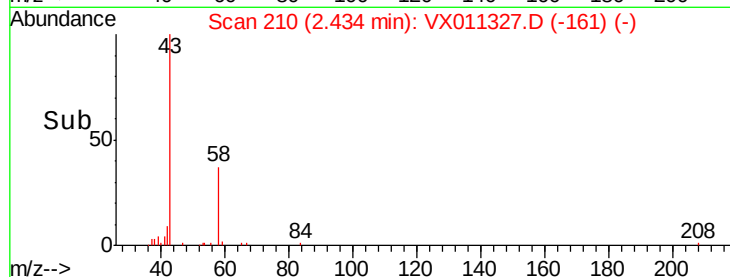
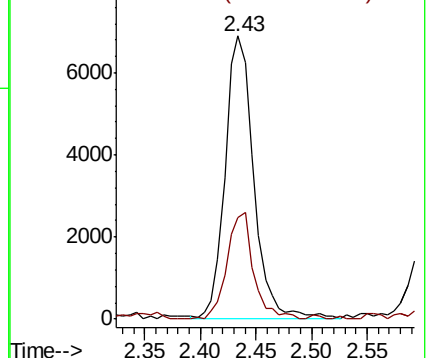
43 100

58 35.9 27.4 41.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.435 ug/l

RT: 2.76 min Scan# 264

Delta R.T. 0.00 min

Lab File: VX011327.D

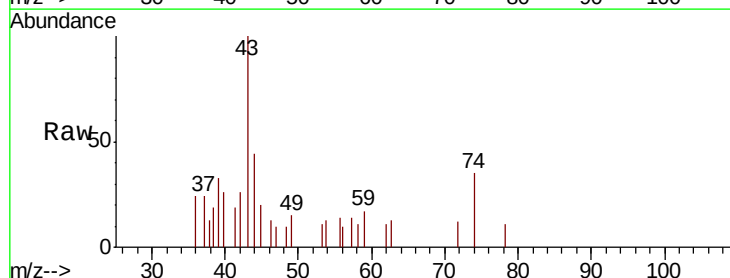
Acq: 05 Aug 2019 15:40

Tgt Ion: 43 Resp: 910

Ion Ratio Lower Upper

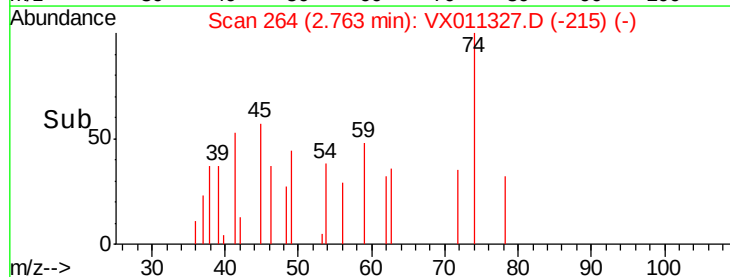
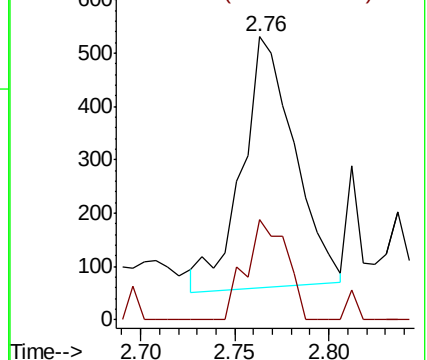
43 100

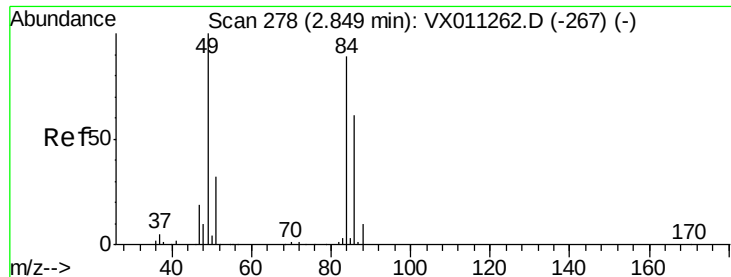
74 30.9 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

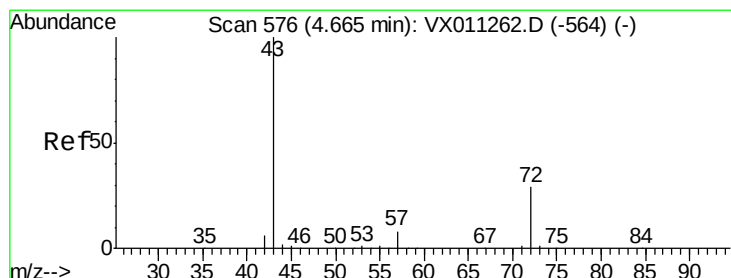
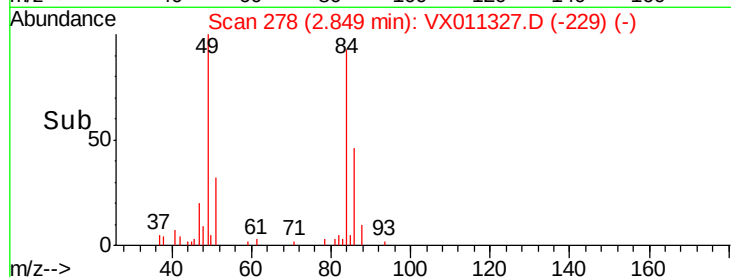
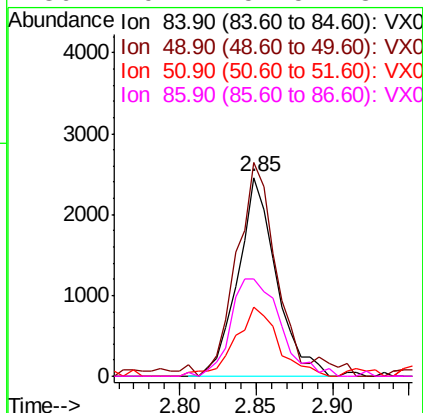
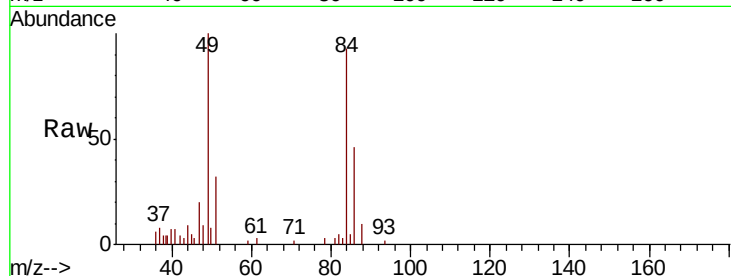




#20
Methvlene Chloride
Concen: 2.135 ug/l
RT: 2.85 min Scan# 278
Delta R.T. 0.00 min
Lab File: VX011327.D
Acq: 05 Aug 2019 15:40

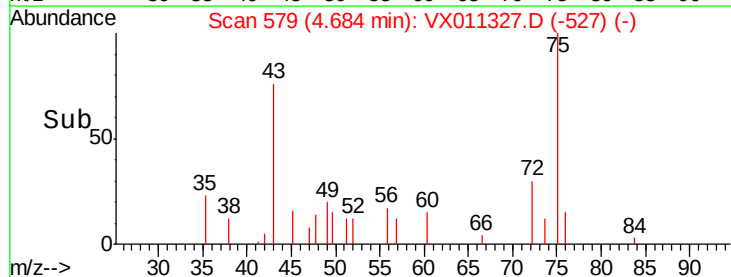
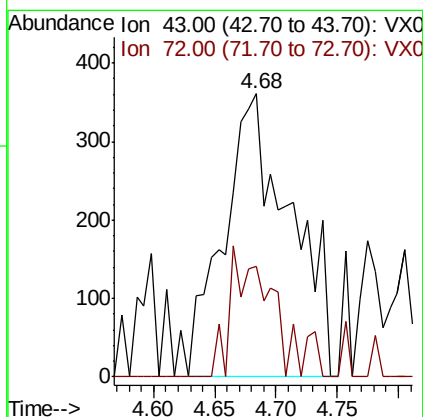
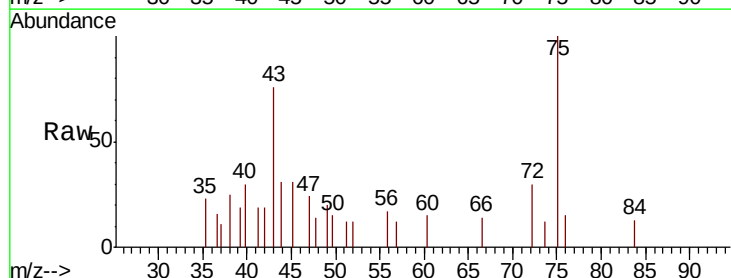
Instrument :
MSVOA_X
ClientSampleId :

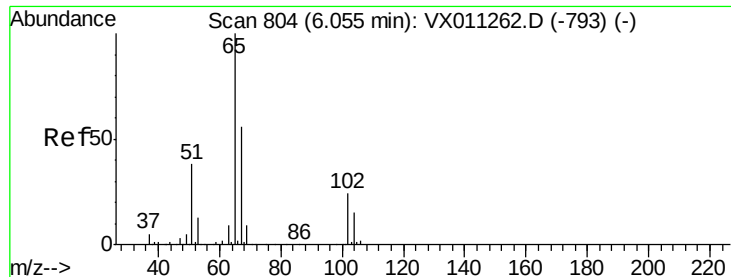
Tot Ion: 84 Resp: 4279
Ion Ratio Lower Upper
84 100
49 103.3 89.3 133.9
51 34.7 28.3 42.5
86 49.2 54.5 81.7#



#25
2-Butanone
Concen: 1.051 ug/l
RT: 4.68 min Scan# 579
Delta R.T. 0.02 min
Lab File: VX011327.D
Acq: 05 Aug 2019 15:40

Tgt Ion: 43 Resp: 1368
Ion Ratio Lower Upper
43 100
72 39.1 23.2 34.8#





#33

1,2-Dichloroethane-d4

Concen: 47.455 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011327.D

Acq: 05 Aug 2019 15:40

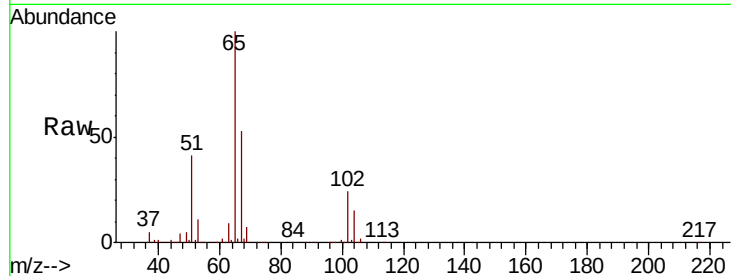
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 65 Resp: 91224

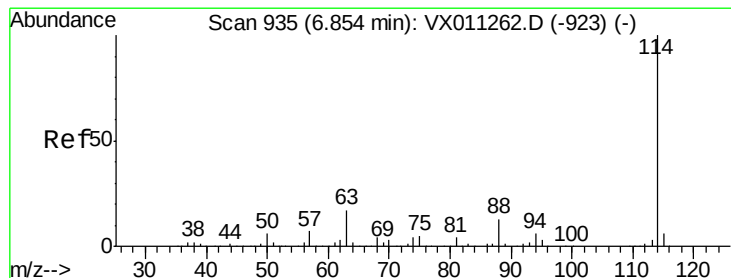
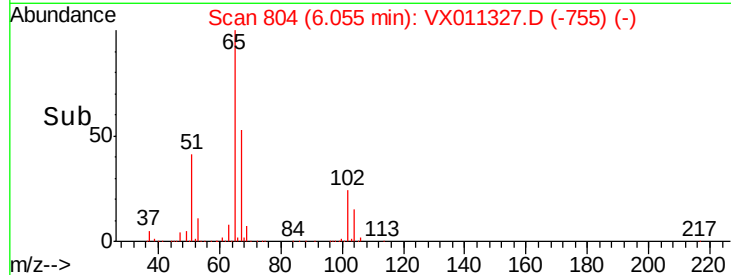
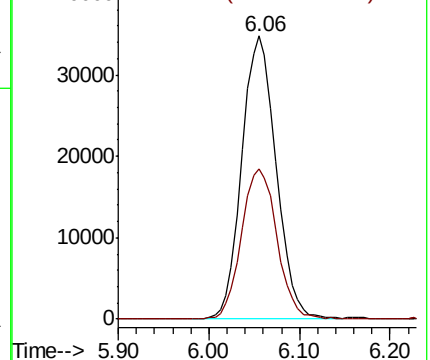
Ion Ratio Lower Upper

65 100

67 55.1 0.0 110.6



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: 6.85 min Scan# 935

Delta R.T. 0.00 min

Lab File: VX011327.D

Acq: 05 Aug 2019 15:40

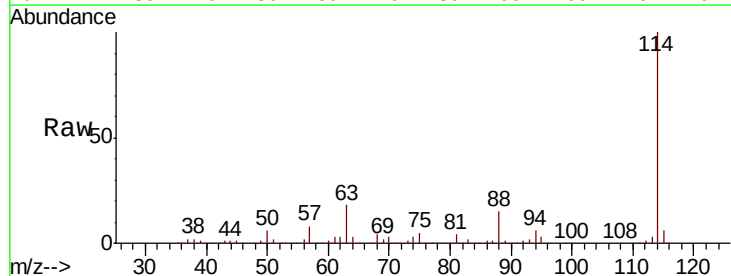
Tgt Ion: 114 Resp: 278520

Ion Ratio Lower Upper

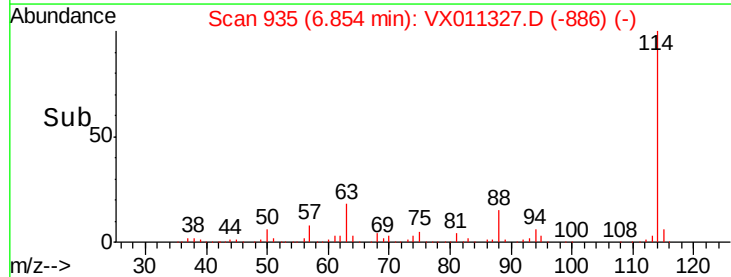
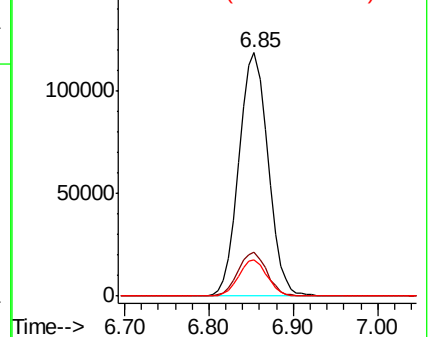
114 100

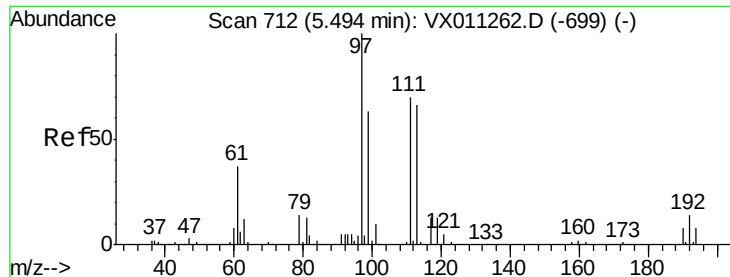
63 18.1 0.0 34.0

88 14.7 0.0 26.4



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: 45.916 ug/l

RT: 5.49 min Scan# 711

Delta R.T. -0.01 min

Lab File: VX011327.D

Acq: 05 Aug 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

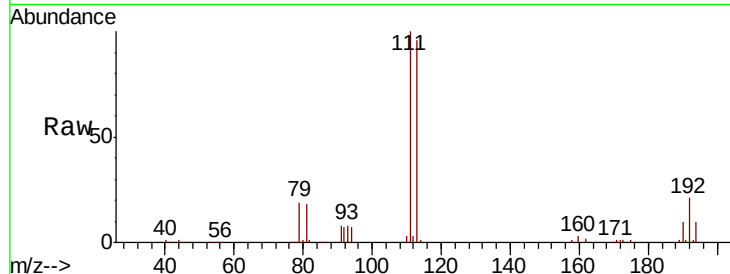
Tot Ion:113 Resp: 83494

Ion Ratio Lower Upper

113 100

111 103.2 81.9 122.9

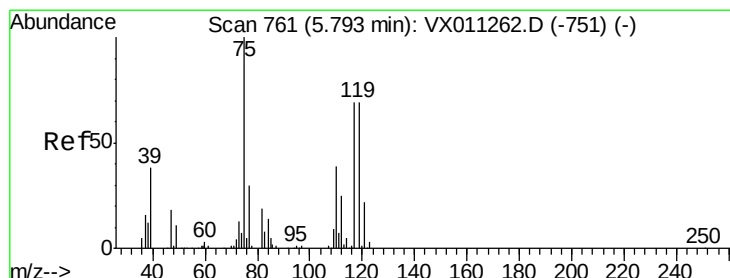
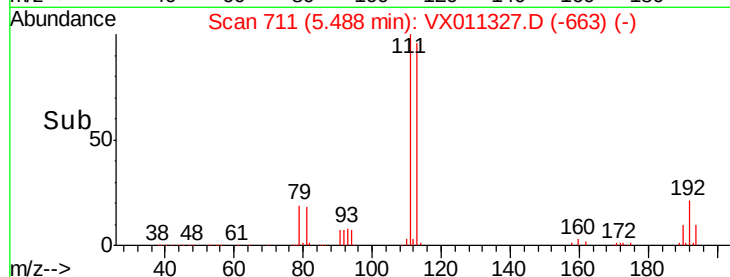
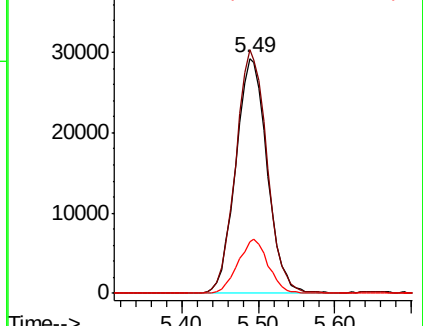
192 22.0 17.8 26.8



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: 5.304 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011327.D

Acq: 05 Aug 2019 15:40

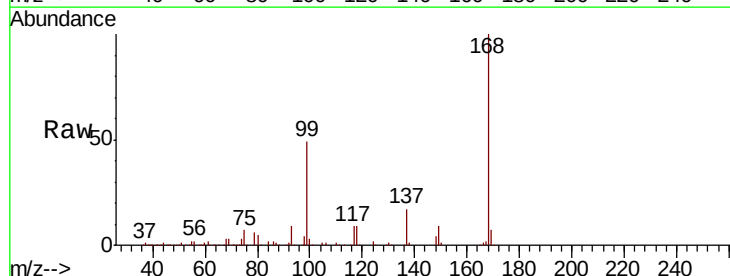
Tgt Ion: 75 Resp: 12897

Ion Ratio Lower Upper

75 100

110 10.2 20.0 59.9#

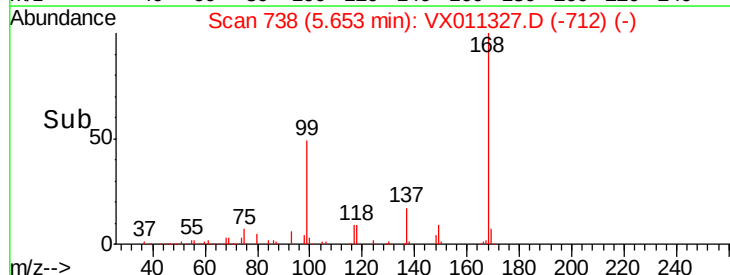
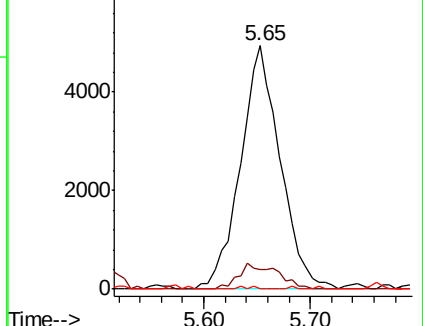
77 0.3 24.8 37.2#

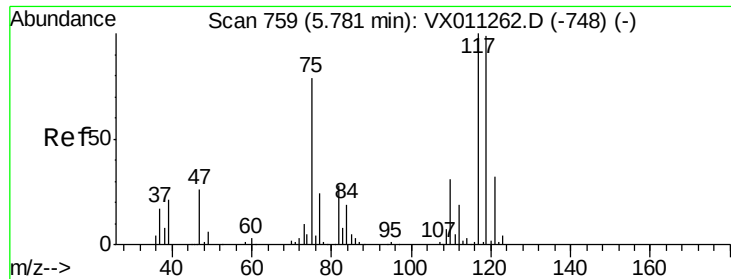


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.259 ug/l

RT: 5.65 min Scan# 737

Delta R.T. -0.13 min

Lab File: VX011327.D

Acq: 05 Aug 2019 15:40

Instrument :

MSVOA_X

ClientSampled :

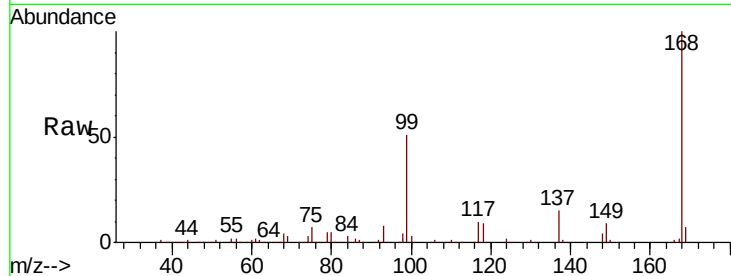
Tot Ion:117 Resp: 17758

Ion Ratio Lower Upper

117 100

119 5.1 79.0 118.4#

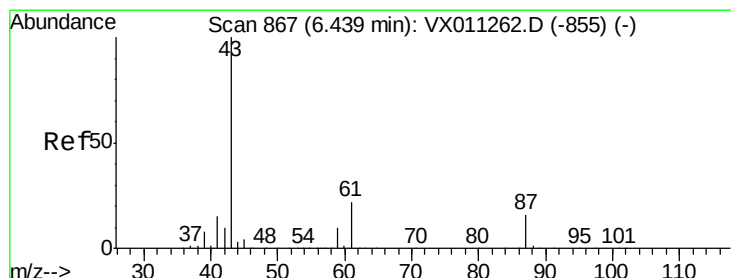
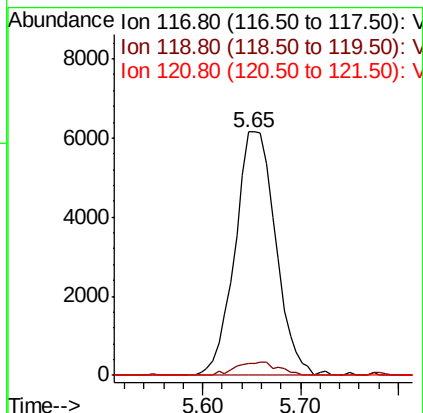
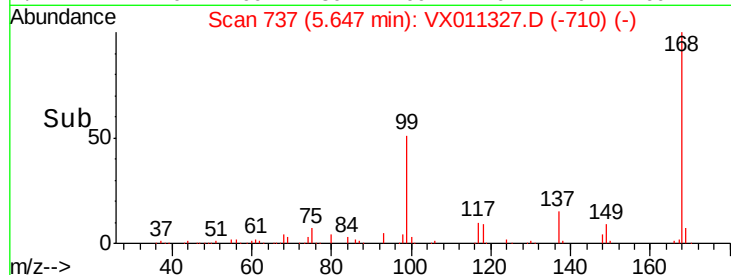
121 0.0 25.9 38.9#



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: 2.164 ug/l

RT: 6.44 min Scan# 867

Delta R.T. 0.00 min

Lab File: VX011327.D

Acq: 05 Aug 2019 15:40

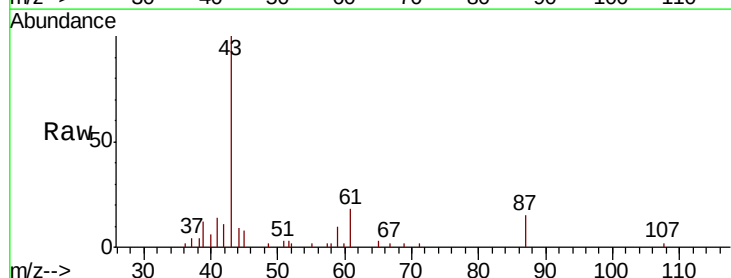
Tgt Ion: 43 Resp: 8438

Ion Ratio Lower Upper

43 100

61 23.2 16.5 24.7

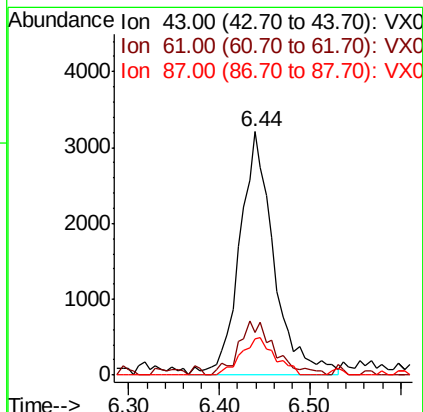
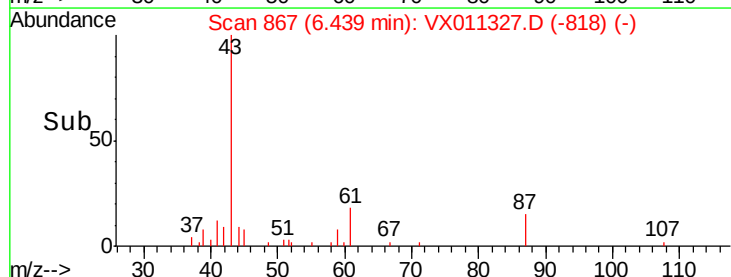
87 15.1 12.1 18.1

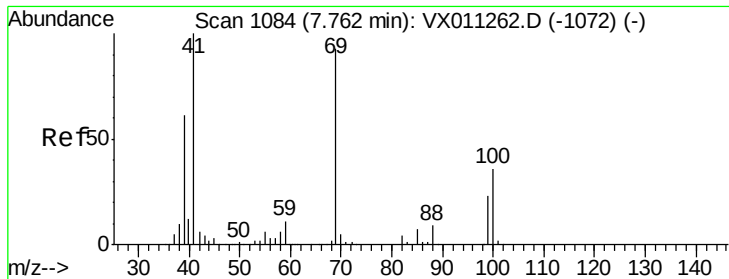


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

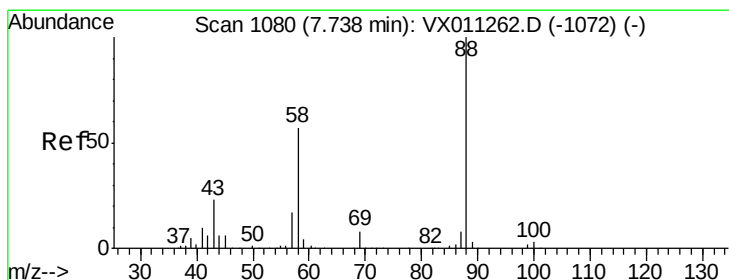
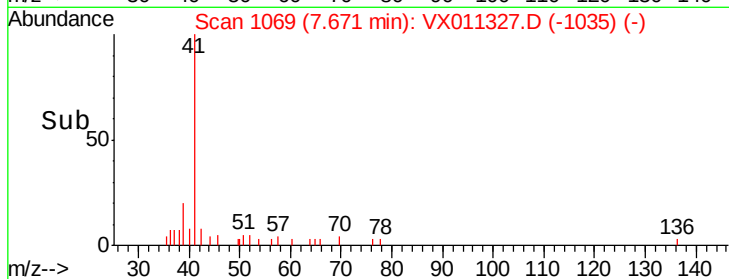
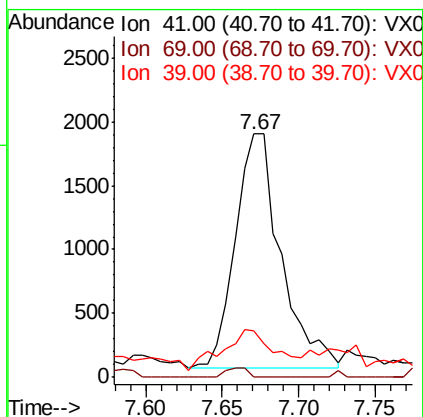
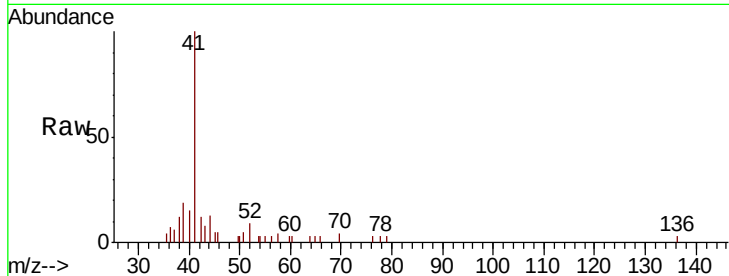




#48
Methvl methacrylate
Concen: 2.072 ug/l
RT: 7.67 min Scan# 1069
Delta R.T. -0.09 min
Lab File: VX011327.D
Acq: 05 Aug 2019 15:40

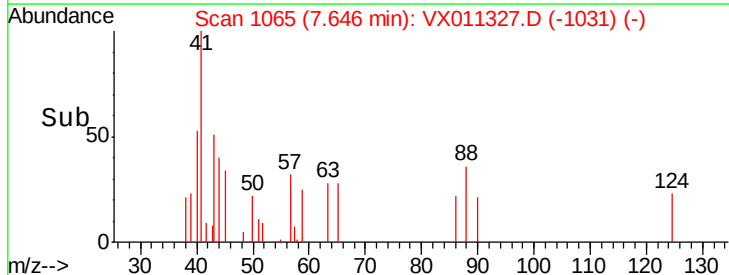
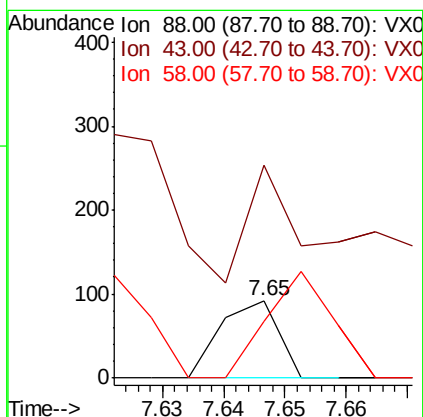
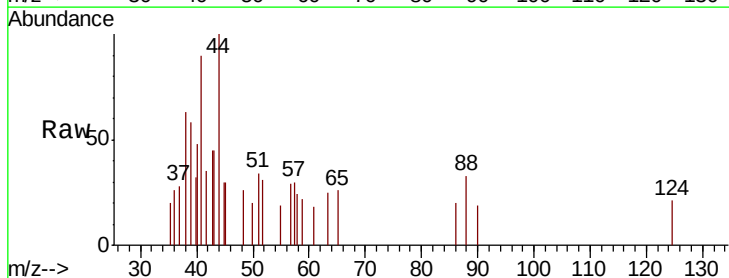
Instrument :
MSVOA_X
ClientSampleId :

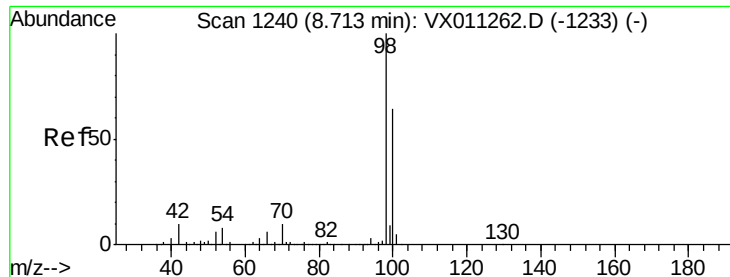
Tot Ion: 41 Resp: 3802
Ion Ratio Lower Upper
41 100
69 2.0 74.5 111.7#
39 0.0 48.6 72.8#



#49
1,4-Dioxane
Concen: 1.128 ug/l
RT: 7.65 min Scan# 1065
Delta R.T. -0.09 min
Lab File: VX011327.D
Acq: 05 Aug 2019 15:40

Tgt Ion: 88 Resp: 60
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.2#
58 156.7 47.8 71.8#

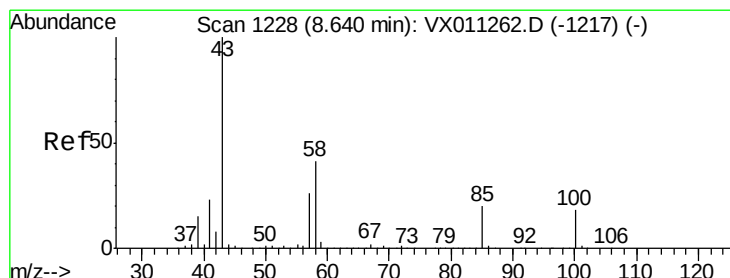
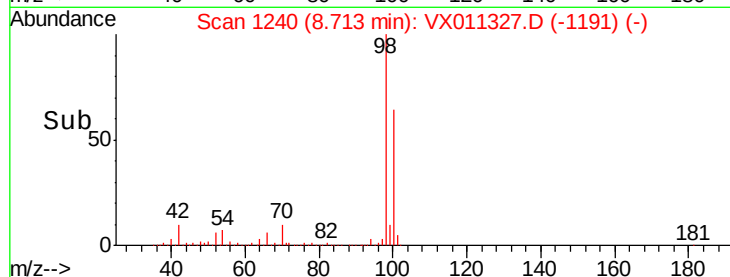
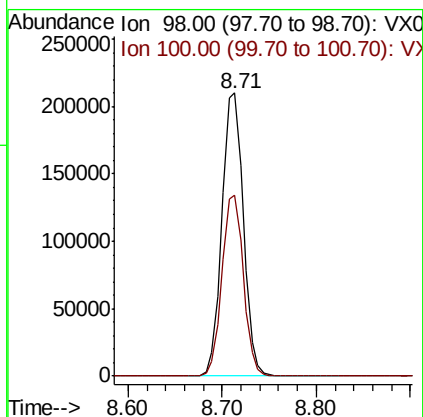
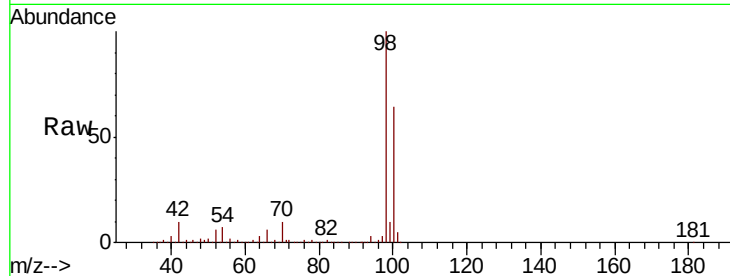




#50
Toluene-d8
Concen: 48.348 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011327.D
Acq: 05 Aug 2019 15:40

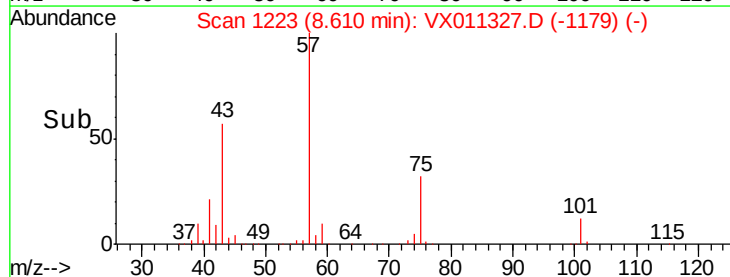
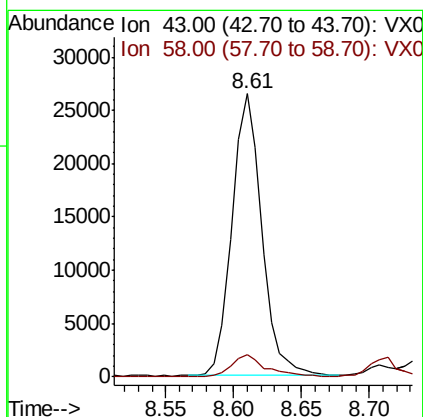
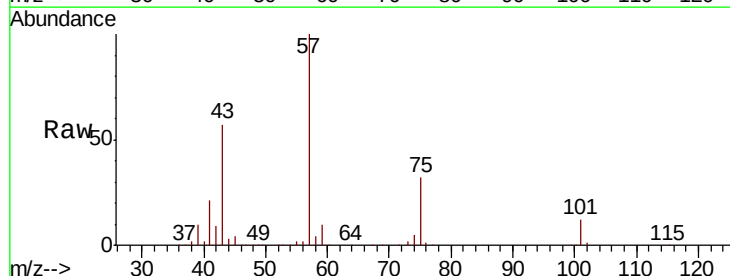
Instrument :
MSVOA_X
ClientSampleId :

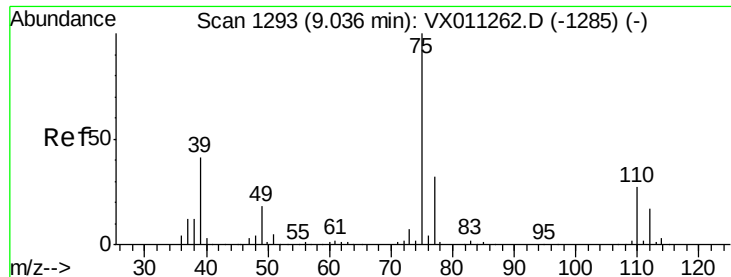
Tot Ion: 98 Resp: 331853
Ion Ratio Lower Upper
98 100
100 63.8 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 16.054 ug/l
RT: 8.61 min Scan# 1223
Delta R.T. -0.03 min
Lab File: VX011327.D
Acq: 05 Aug 2019 15:40

Tgt Ion: 43 Resp: 40405
Ion Ratio Lower Upper
43 100
58 9.2 32.3 48.5#

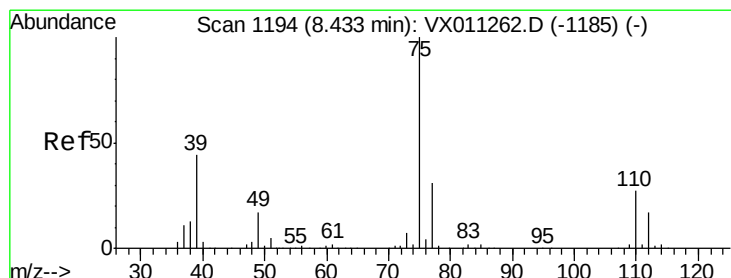
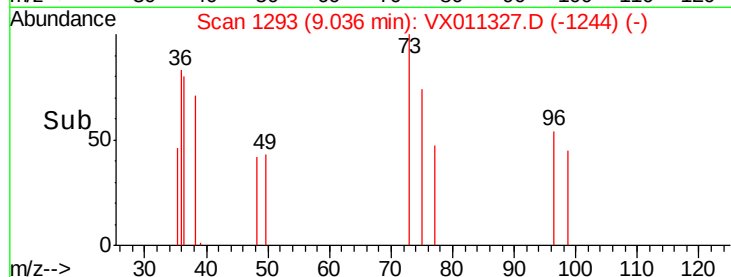
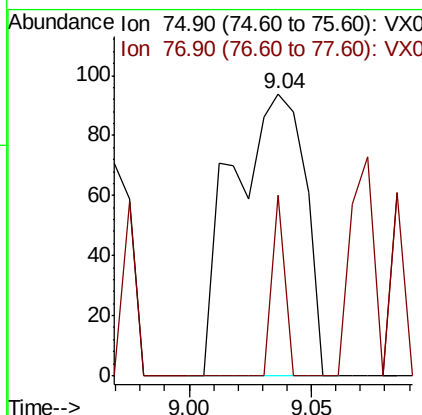
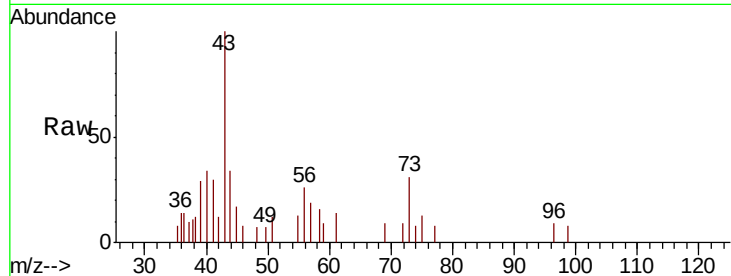




#53
 t-1,3-Dichloropropene
 Concen: 2.906 ug/l
 RT: 9.04 min Scan# 1293
 Delta R.T. 0.00 min
 Lab File: VX011327.D
 Acq: 05 Aug 2019 15:40

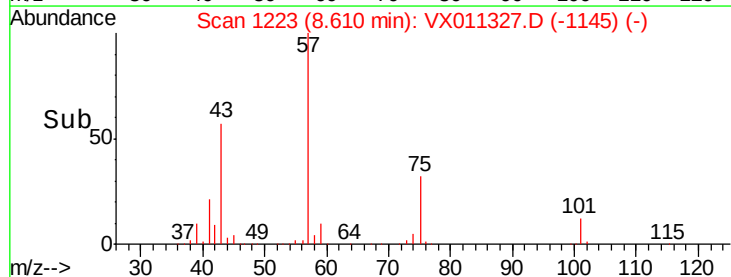
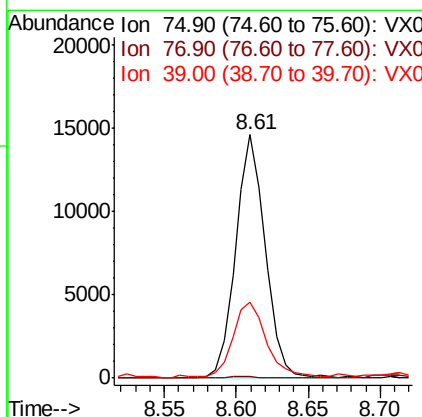
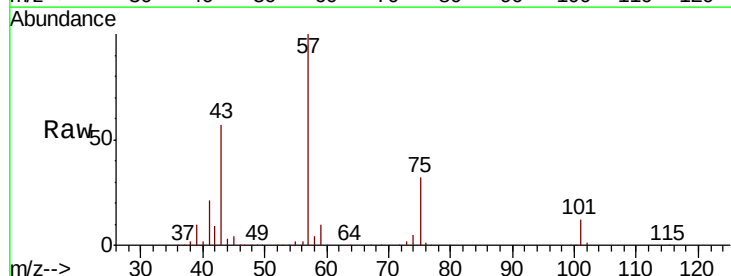
Instrument :
 MSVOA_X
 ClientSampleId :

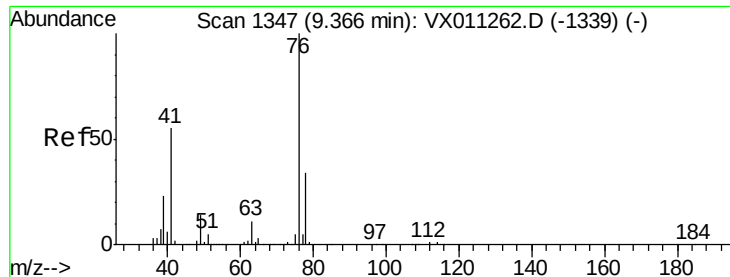
Tot Ion: 75 Resp: 194
 Ion Ratio Lower Upper
 75 100
 77 63.8 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 7.678 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011327.D
 Acq: 05 Aug 2019 15:40

Tgt Ion: 75 Resp: 20834
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.0 37.6#
 39 29.5 35.3 52.9#





#57

1,3-Dichloropropane

Concen: 1.636 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.17 min

Lab File: VX011327.D

Acq: 05 Aug 2019 15:40

Instrument :

MSVOA_X

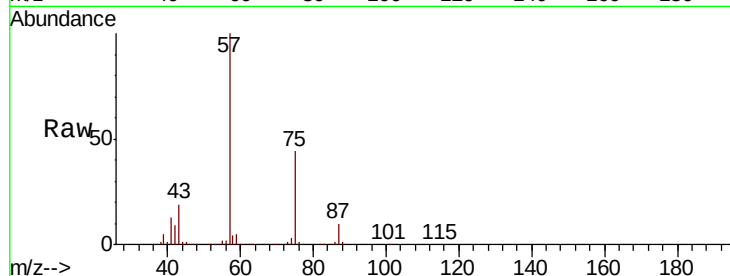
ClientSampleId :

Tot Ion: 76 Resp: 5103

Ion Ratio Lower Upper

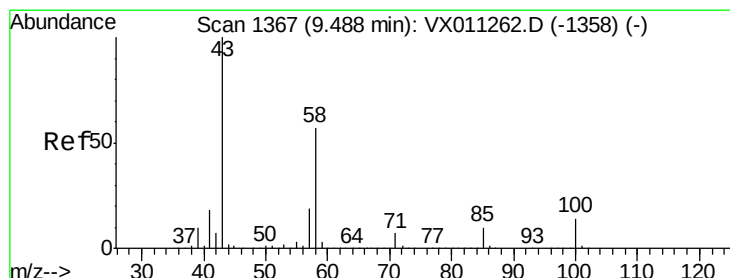
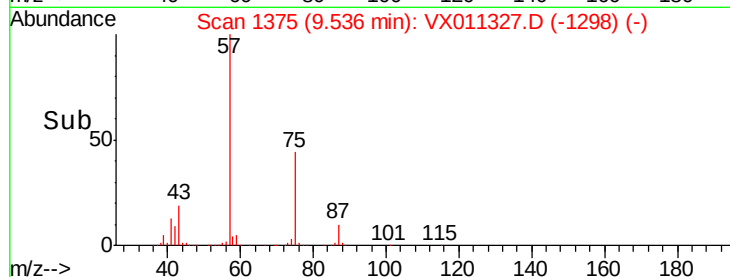
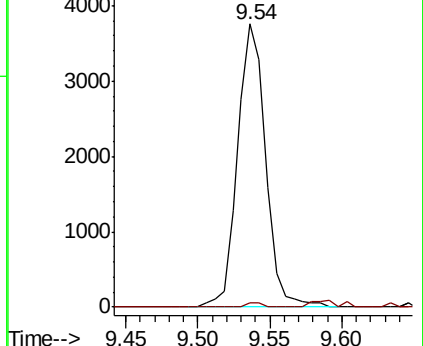
76 100

78 0.9 26.6 40.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#59

2-Hexanone

Concen: 31.819 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.05 min

Lab File: VX011327.D

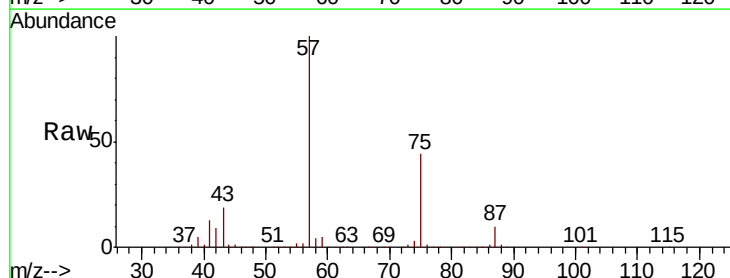
Acq: 05 Aug 2019 15:40

Tgt Ion: 43 Resp: 62028

Ion Ratio Lower Upper

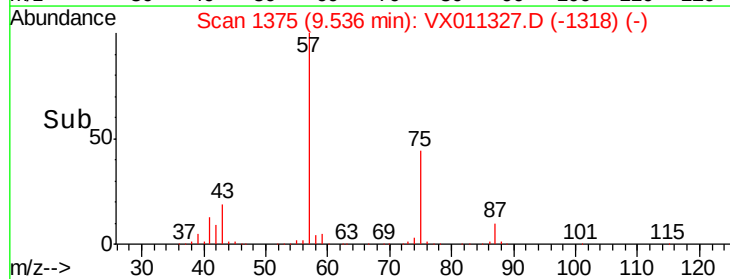
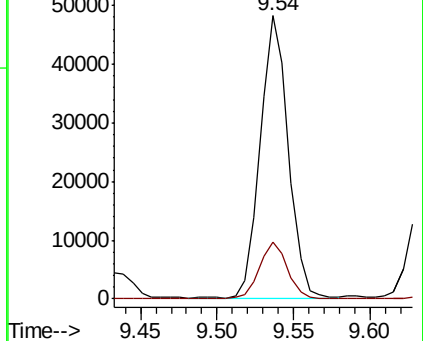
43 100

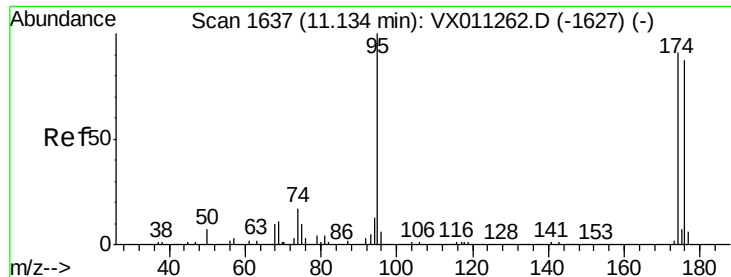
58 20.5 28.2 84.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 42.334 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011327.D

Acq: 05 Aug 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

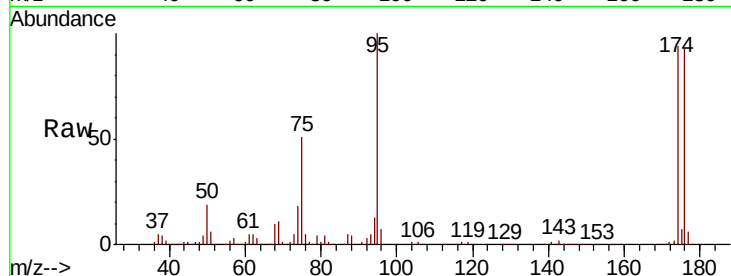
Tot Ion: 95 Resp: 103743

Ion Ratio Lower Upper

95 100

174 94.8 0.0 191.2

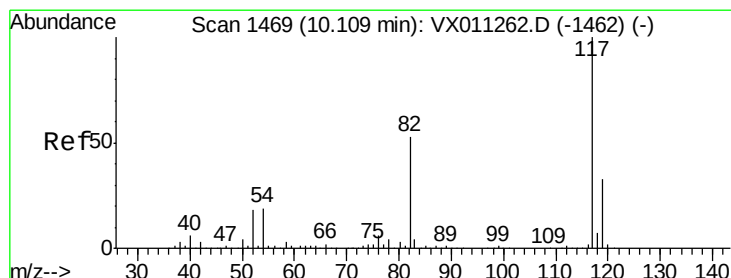
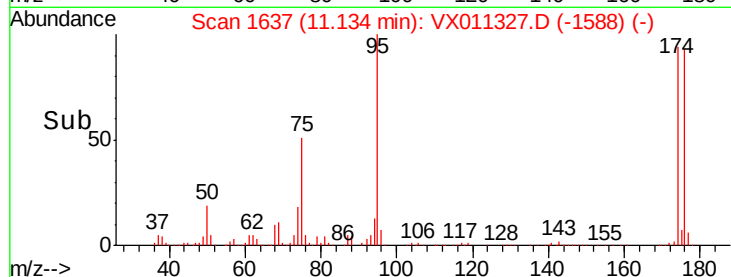
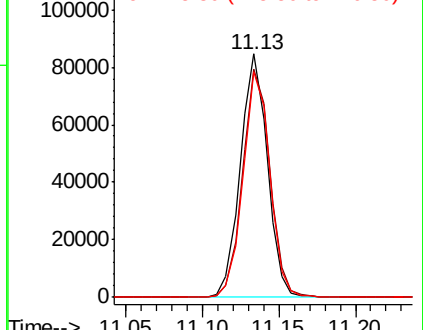
176 92.3 0.0 184.8



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: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX011327.D

Acq: 05 Aug 2019 15:40

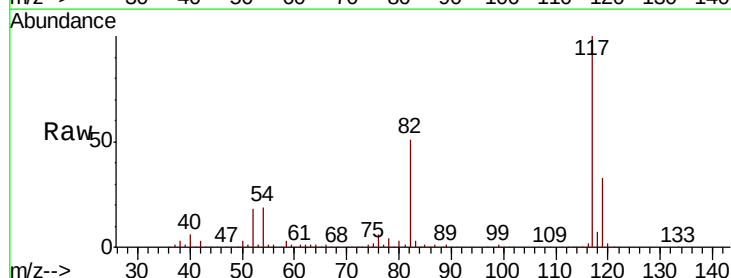
Tgt Ion: 117 Resp: 253586

Ion Ratio Lower Upper

117 100

82 51.0 42.2 63.2

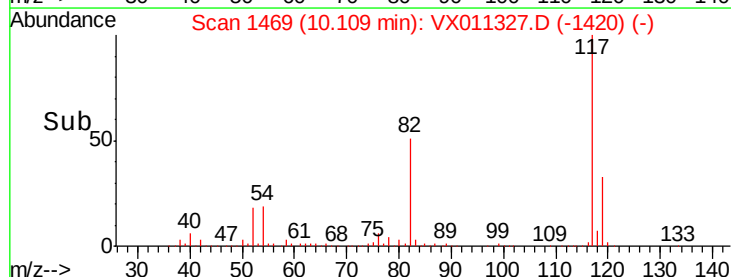
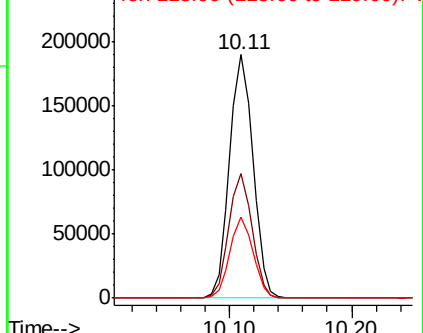
119 33.3 26.6 39.8

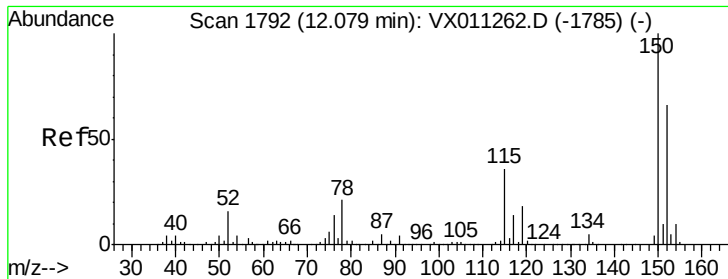


Abundance Ion 116.90 (116.60 to 117.60): V

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: 12.07 min Scan# 1791

Delta R.T. -0.01 min

Lab File: VX011327.D

Acq: 05 Aug 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

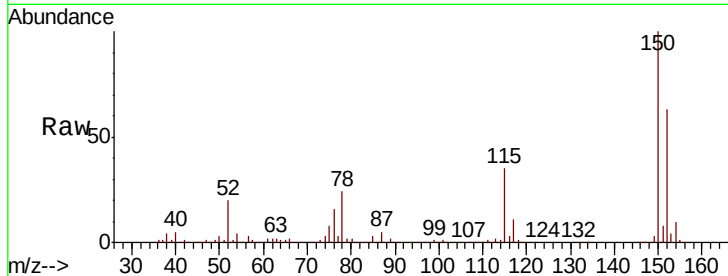
Tot Ion:152 Resp: 112780

Ion Ratio Lower Upper

152 100

115 54.0 40.0 119.9

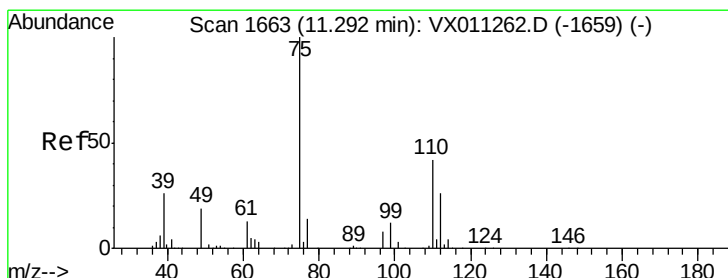
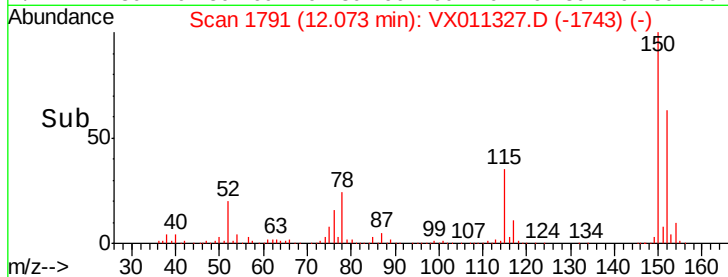
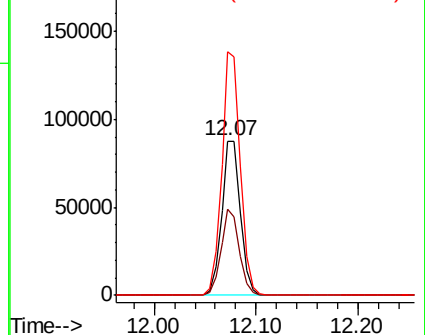
150 155.7 0.0 350.4



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: 25.824 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011327.D

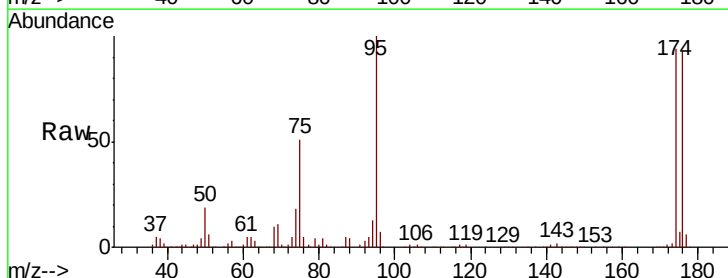
Acq: 05 Aug 2019 15:40

Tgt Ion: 75 Resp: 53039

Ion Ratio Lower Upper

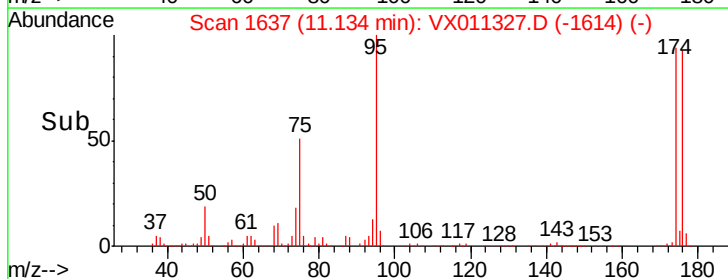
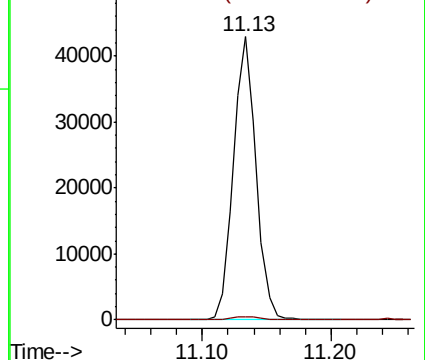
75 100

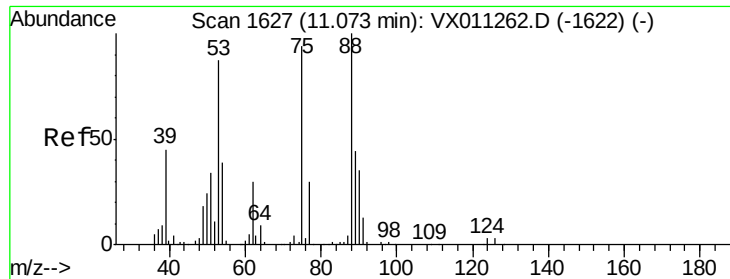
77 1.7 21.1 63.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

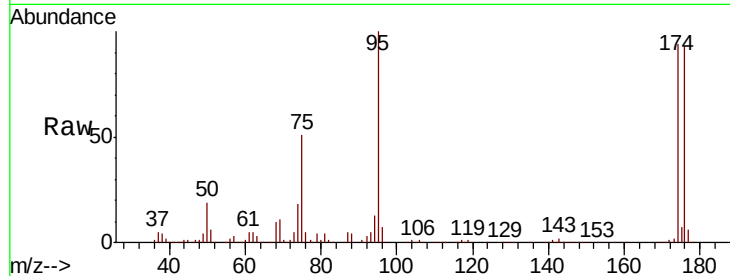




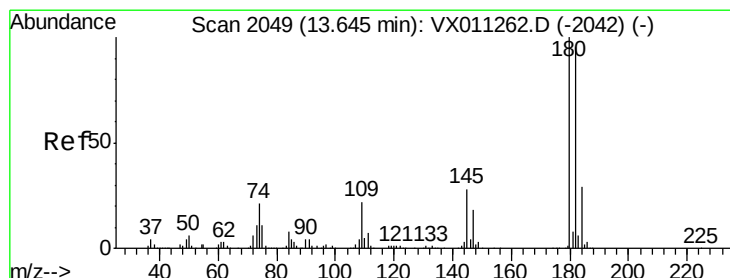
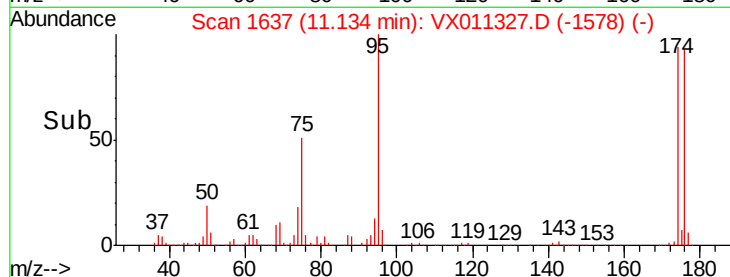
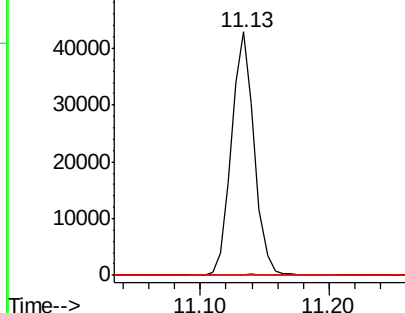
#81
trans-1,4-Dichloro-2-butene
Concen: 67.241 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX011327.D
Acq: 05 Aug 2019 15:40

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 75 Resp: 53039
Ion Ratio Lower Upper
75 100
53 0.1 78.2 117.4#
89 0.1 37.9 56.9#

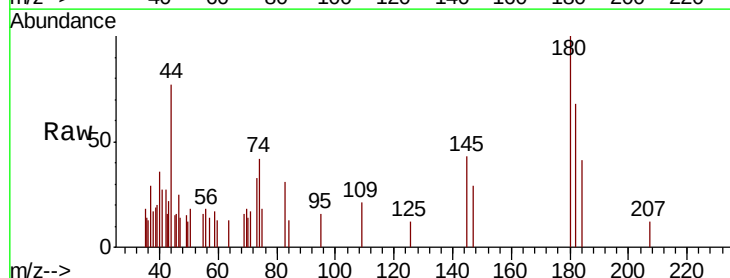


Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#93
1,2,4-Trichlorobenzene
Concen: 0.259 ug/l
RT: 13.65 min Scan# 2049
Delta R.T. 0.00 min
Lab File: VX011327.D
Acq: 05 Aug 2019 15:40

Tgt Ion:180 Resp: 652
Ion Ratio Lower Upper
180 100
182 78.8 47.8 143.4
145 30.7 14.8 44.3



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

