

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120919\
 Data File : VX0137862.D
 Acq On : 09 Dec 2019 19:41
 Operator : JC/SP
 Sample : K6185-10DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 10 03:28:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	597113	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	928661	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	814281	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	354819	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.05	65	340490	49.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.24%	
35) Dibromofluoromethane	5.49	113	277114	48.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.54%	
50) Toluene-d8	8.71	98	1091760	48.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.62%	
62) 4-Bromofluorobenzene	11.14	95	355439	44.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.14%	

Target Compounds

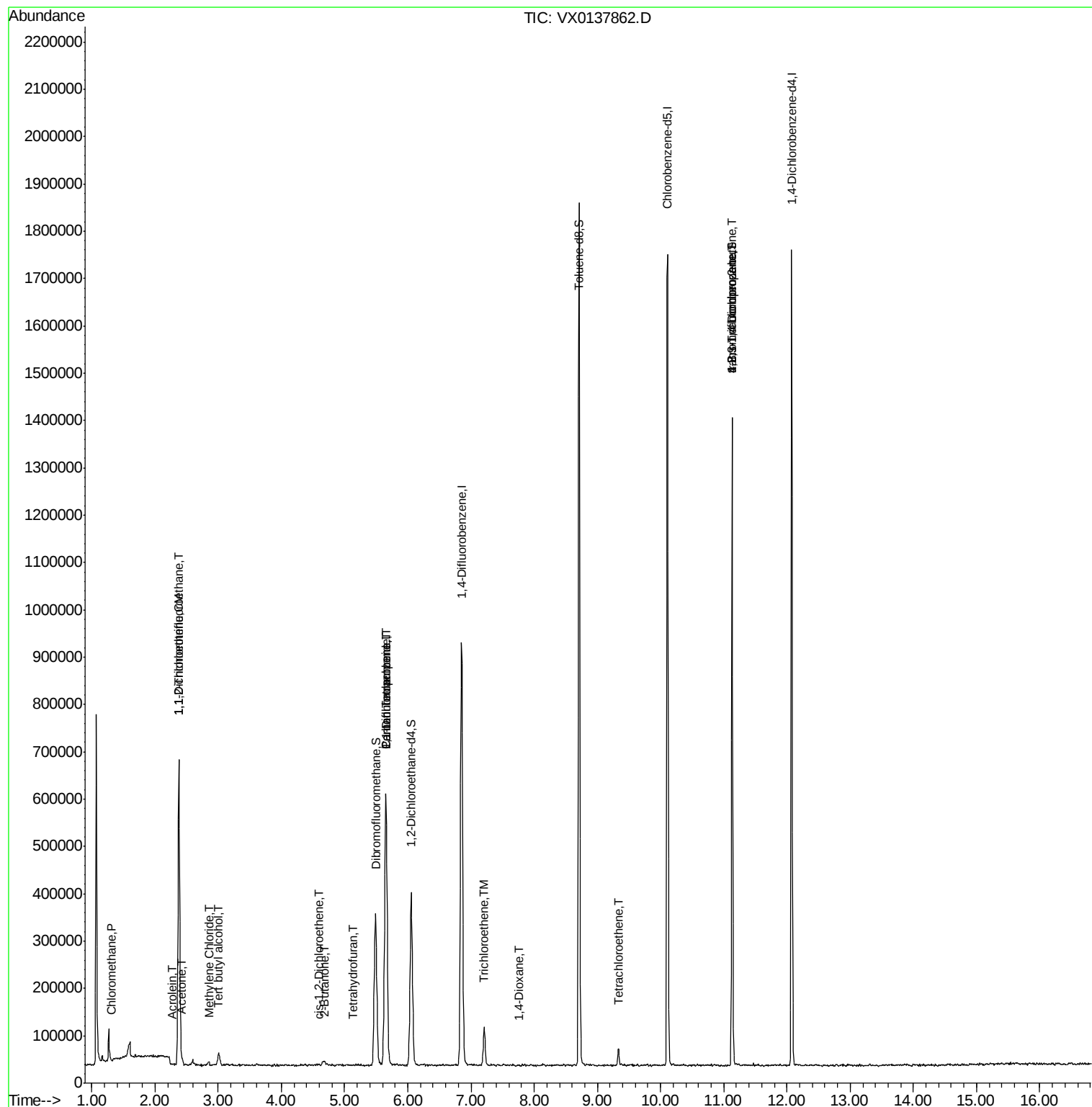
						Qvalue
3) Chloromethane	1.32	50	1594	0.214	ug/l #	50
9) 1,1,2-Trichlorotrifluoroet	2.37	101	268701	47.199	ug/l	98
11) Tert butyl alcohol	3.01	59	17091	9.990	ug/l #	77
12) 1,1-Dichloroethene	2.37	96	2184	0.384	ug/l #	62
13) Acrolein	2.28	56	595	6.511	ug/l #	69
16) Acetone	2.43	43	11007	3.217	ug/l	90
20) Methylene Chloride	2.86	84	4873	0.741	ug/l #	66
25) 2-Butanone	4.68	43	4612	0.907	ug/l #	72
27) cis-1,2-Dichloroethene	4.59	96	1956	0.275	ug/l	73
29) Tetrahydrofuran	5.13	42	1352	0.431	ug/l #	88
36) 1,1-Dichloropropene	5.65	75	41494	4.922	ug/l #	52
38) Carbon Tetrachloride	5.65	117	51196	6.586	ug/l #	17
44) Trichloroethene	7.21	130	33656	4.776	ug/l	99
49) 1,4-Dioxane	7.75	88	167	0.986	ug/l #	1
64) Tetrachloroethene	9.34	164	8417	1.386	ug/l	86
76) 1,2,3-Trichloropropane	11.13	75	177498	22.241	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	177498	60.849	ug/l #	11

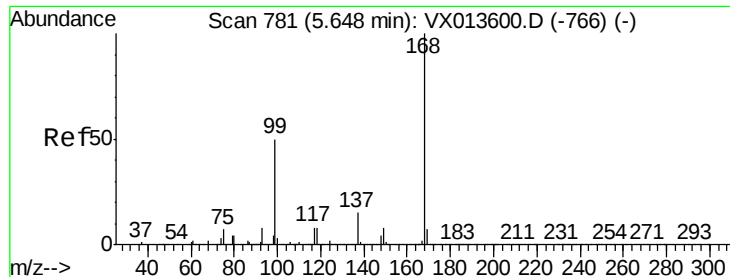
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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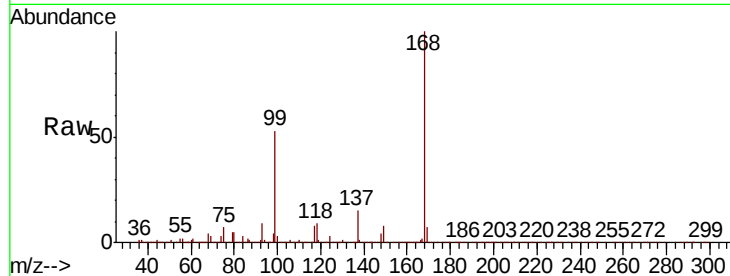


#1

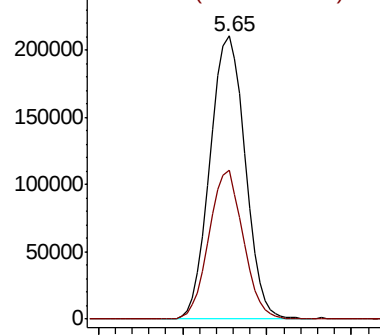
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. 0.01 min
 Lab File: VX0137862.D
 Acq: 09 Dec 2019 19:41

Instrument :
 MSVOA_X
 ClientSampleId :

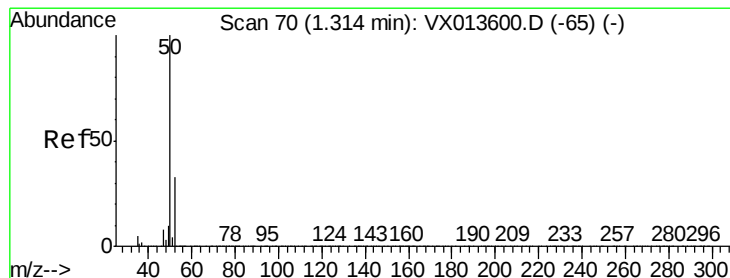
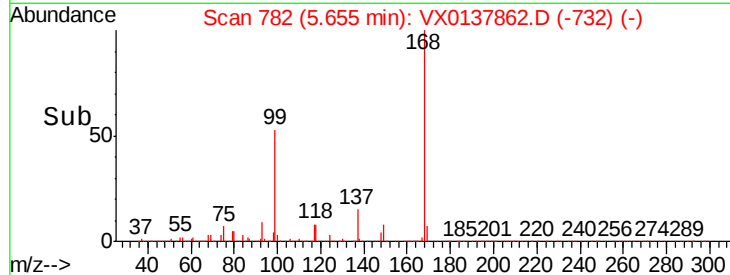
Tot Ion:168 Resp: 597113
 Ion Ratio Lower Upper
 168 100
 99 52.6 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.90 (98.60 to 99.60): VX0



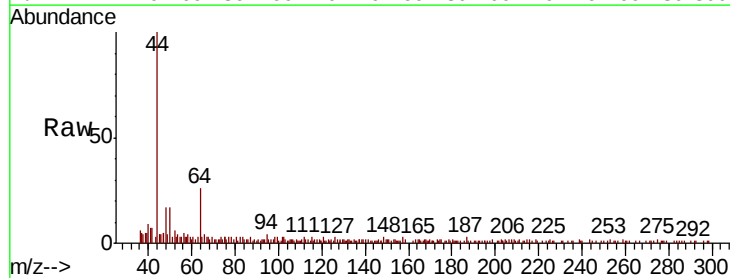
Time--> 5.50 5.60 5.70 5.80



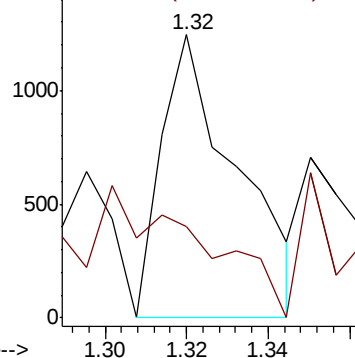
#3

Chloromethane
 Concen: 0.214 ug/l
 RT: 1.32 min Scan# 71
 Delta R.T. 0.01 min
 Lab File: VX0137862.D
 Acq: 09 Dec 2019 19:41

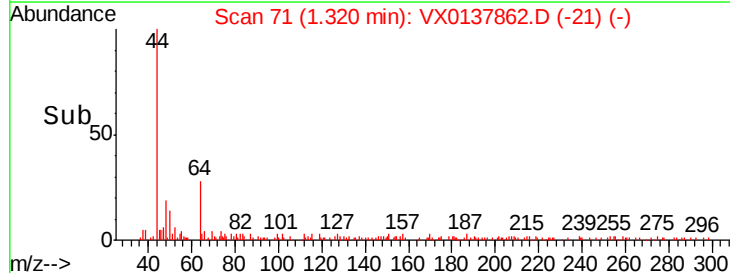
Tgt Ion: 50 Resp: 1594
 Ion Ratio Lower Upper
 50 100
 52 4.4 26.0 39.0#

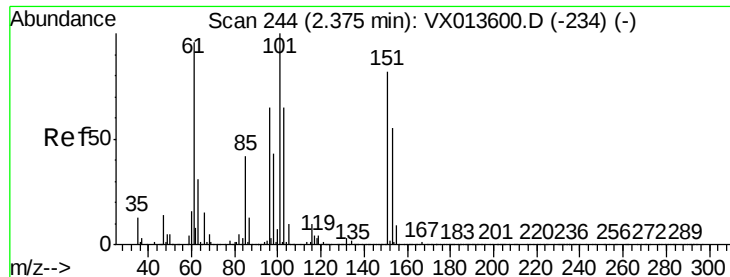


Abundance Ion 49.90 (49.60 to 50.60): VX0
 Ion 51.90 (51.60 to 52.60): VX0



Time--> 1.30 1.32 1.34





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.199 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.00 min

Lab File: VX0137862.D

Acq: 09 Dec 2019 19:41

Instrument :

MSVOA_X

ClientSampleId :

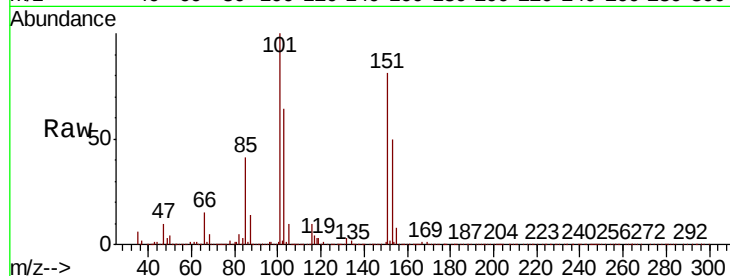
Tot Ion:101 Resp: 268701

Ion Ratio Lower Upper

101 100

85 41.3 33.9 50.9

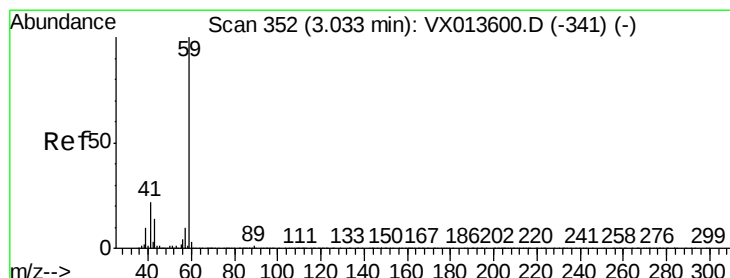
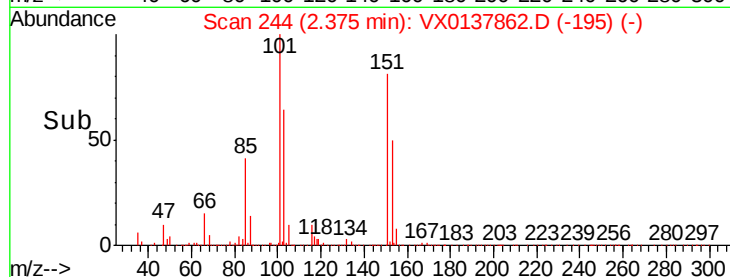
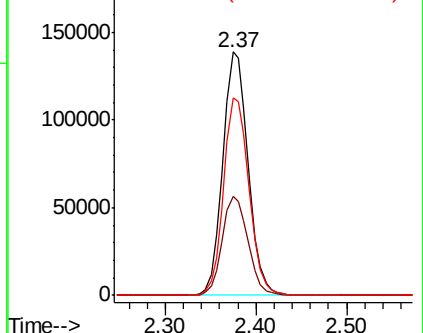
151 81.7 64.2 96.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 9.990 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.02 min

Lab File: VX0137862.D

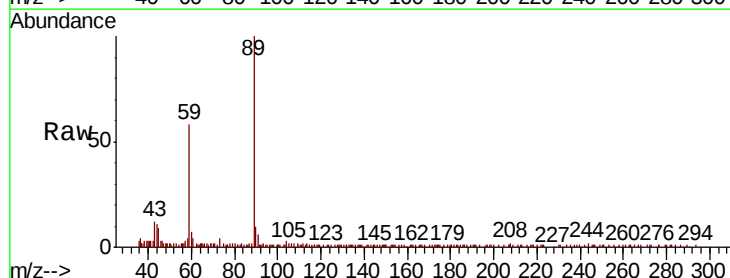
Acq: 09 Dec 2019 19:41

Tgt Ion: 59 Resp: 17091

Ion Ratio Lower Upper

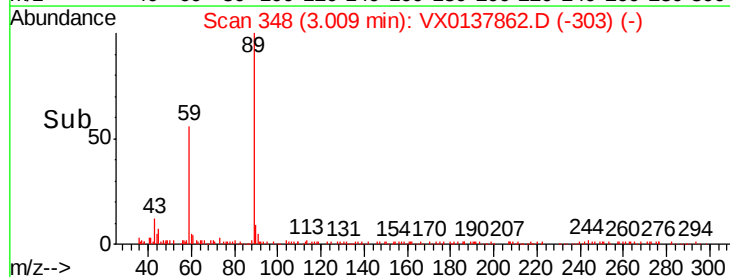
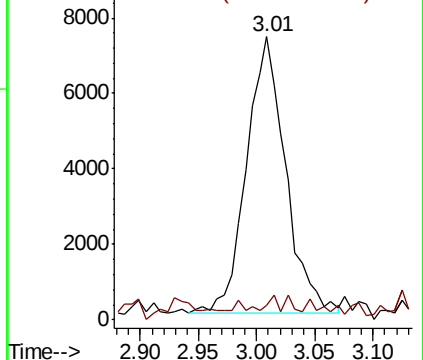
59 100

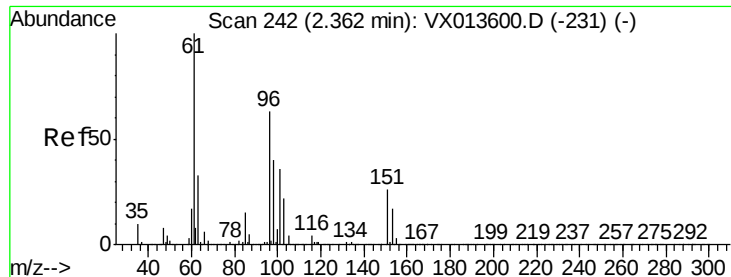
57 1.3 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.384 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.01 min

Lab File: VX0137862.D

Acq: 09 Dec 2019 19:41

Instrument :

MSVOA_X

ClientSampleId :

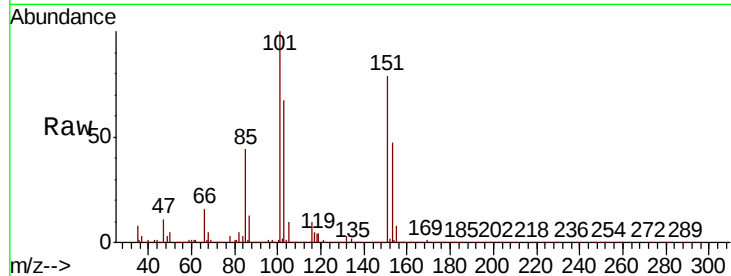
Tot Ion: 96 Resp: 2184

Ion Ratio Lower Upper

96 100

61 97.8 126.6 190.0#

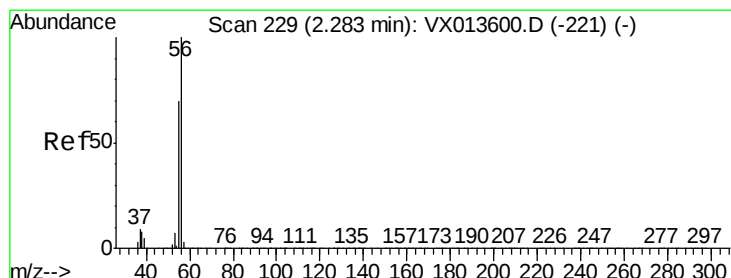
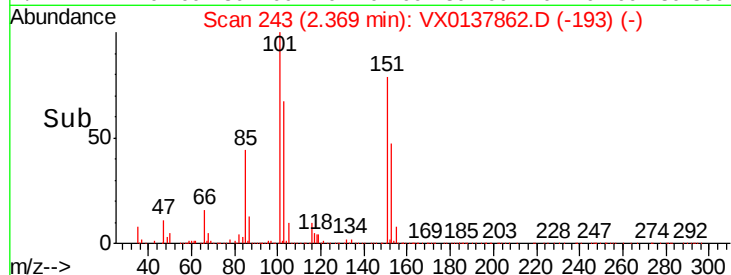
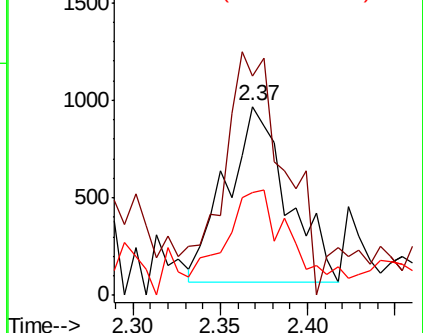
98 48.7 50.6 76.0#



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 6.511 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX0137862.D

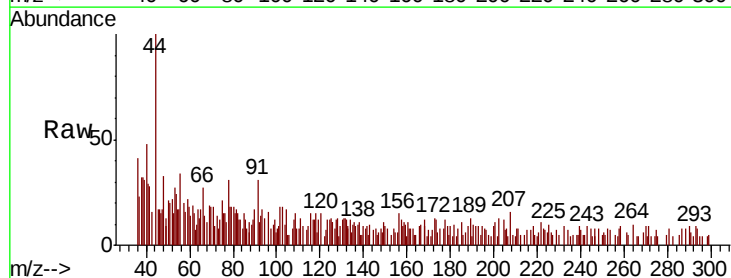
Acq: 09 Dec 2019 19:41

Tgt Ion: 56 Resp: 595

Ion Ratio Lower Upper

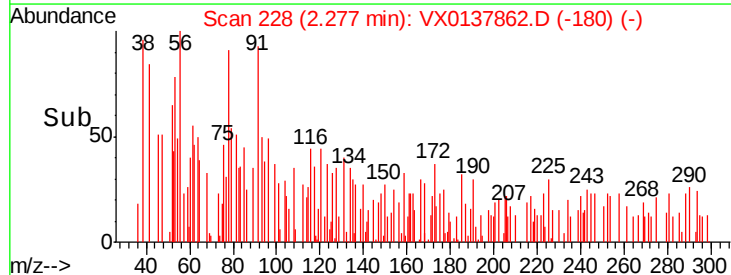
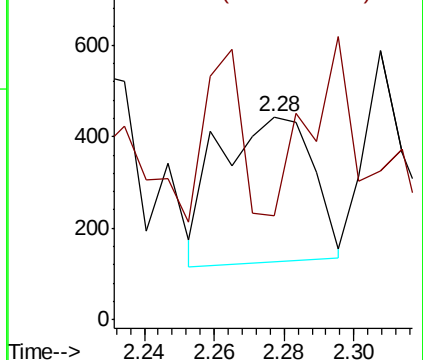
56 100

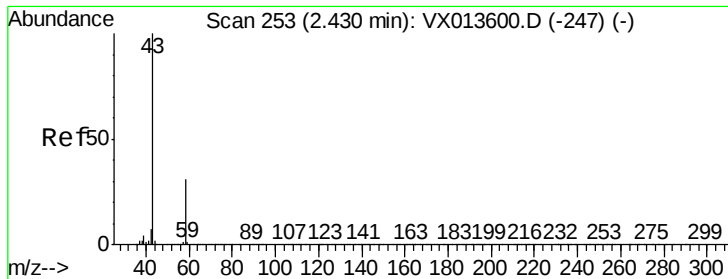
55 45.2 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

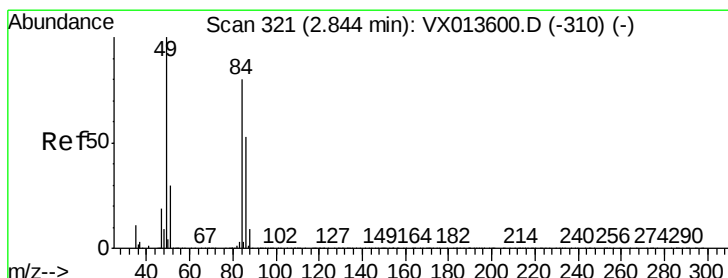
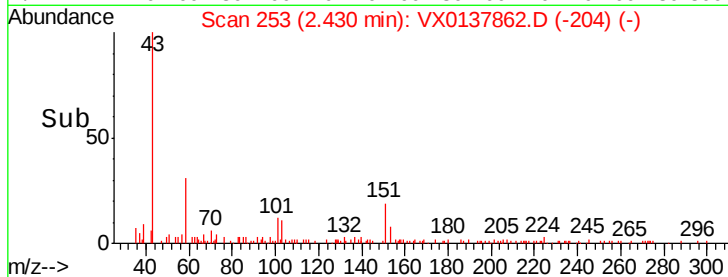
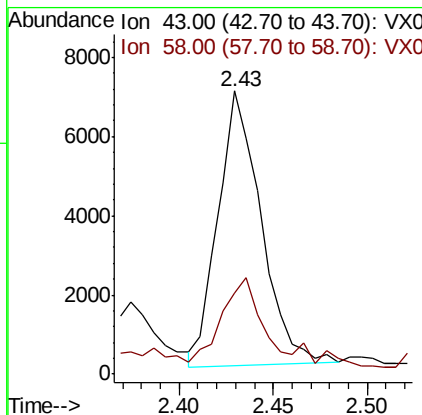
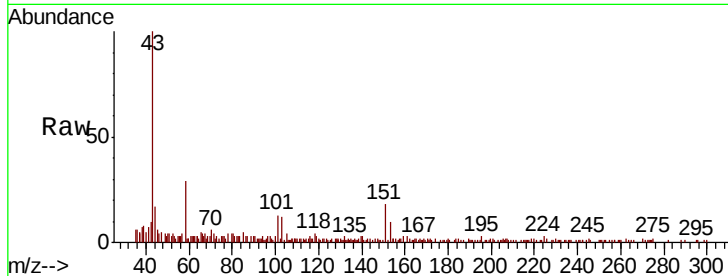




#16
Acetone
Concen: 3.217 ug/l
RT: 2.43 min Scan# 253
Delta R.T. 0.00 min
Lab File: VX0137862.D
Acq: 09 Dec 2019 19:41

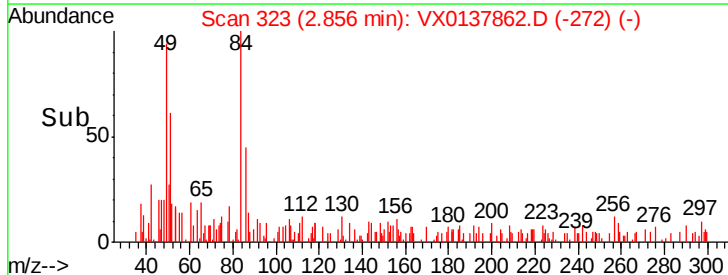
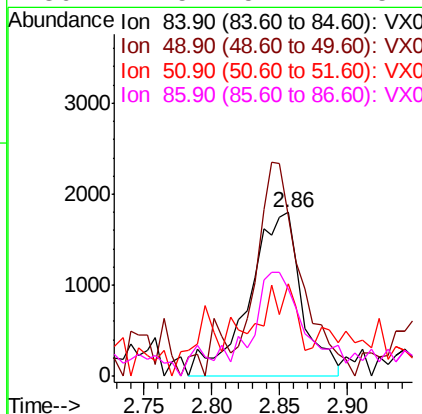
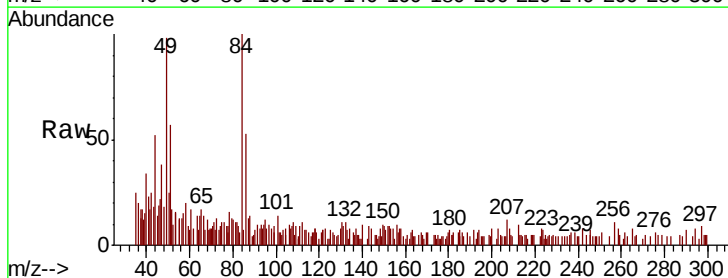
Instrument :
MSVOA_X
ClientSampleId :

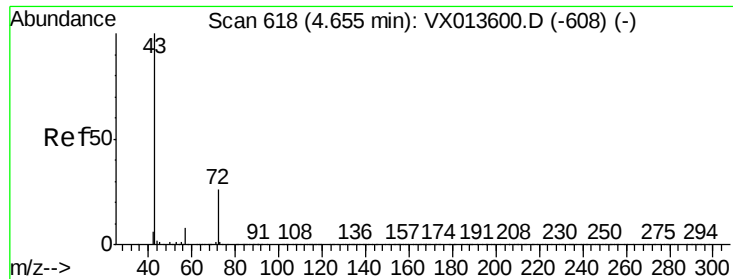
Tot Ion: 43 Resp: 11007
Ion Ratio Lower Upper
43 100
58 25.4 24.6 36.8



#20
Methylene Chloride
Concen: 0.741 ug/l
RT: 2.86 min Scan# 323
Delta R.T. 0.01 min
Lab File: VX0137862.D
Acq: 09 Dec 2019 19:41

Tgt Ion: 84 Resp: 4873
Ion Ratio Lower Upper
84 100
49 74.4 99.7 149.5#
51 41.1 29.9 44.9
86 42.5 52.2 78.4#





#25

2-Butanone

Concen: 0.907 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX0137862.D

Acq: 09 Dec 2019 19:41

Instrument :

MSVOA_X

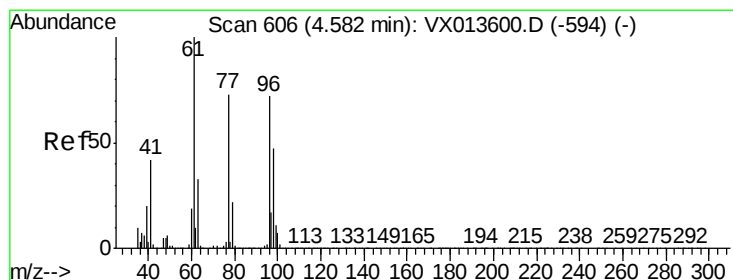
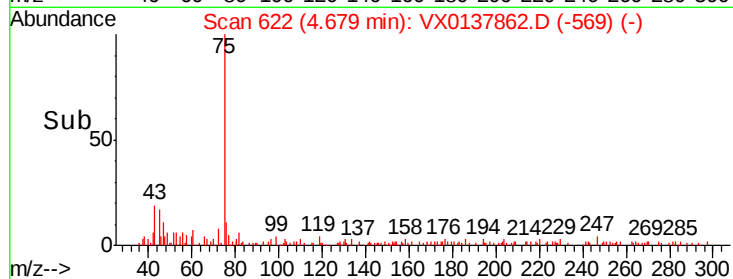
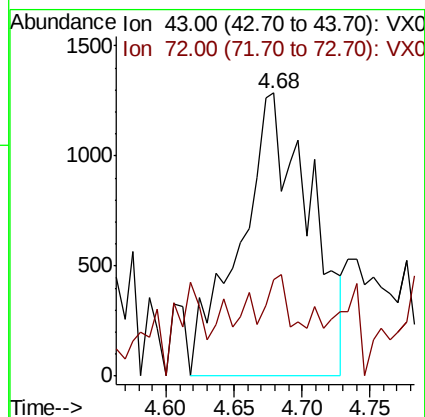
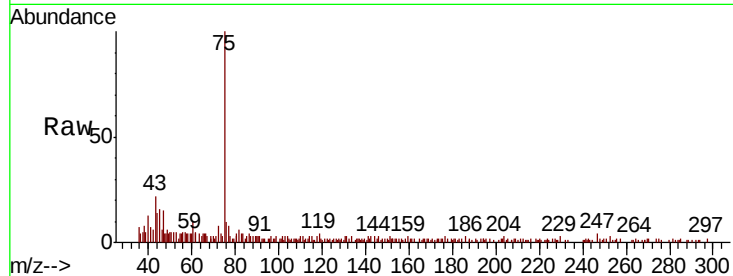
ClientSampleId :

Tot Ion: 43 Resp: 4612

Ion Ratio Lower Upper

43 100

72 11.5 20.6 31.0#



#27

cis-1,2-Dichloroethene

Concen: 0.275 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.01 min

Lab File: VX0137862.D

Acq: 09 Dec 2019 19:41

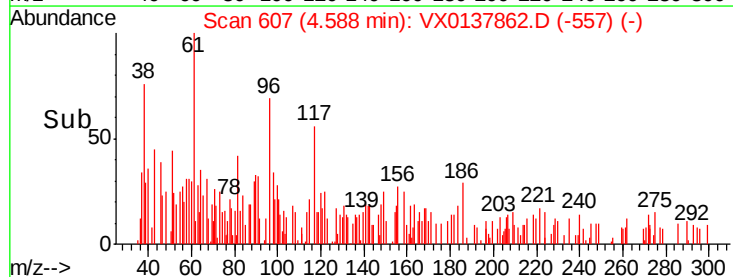
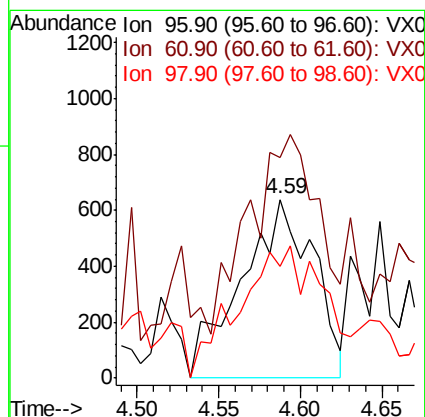
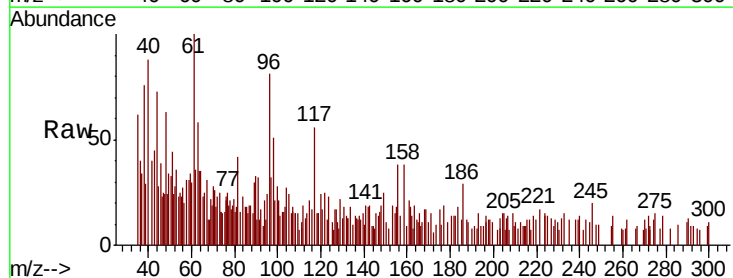
Tgt Ion: 96 Resp: 1956

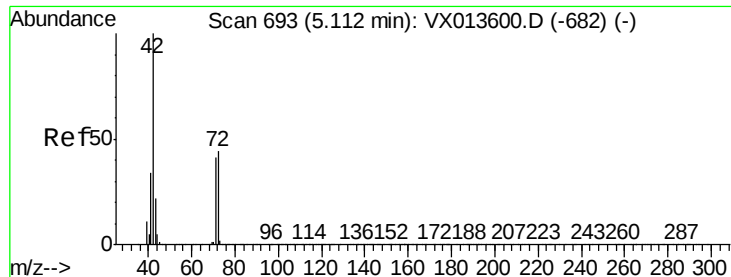
Ion Ratio Lower Upper

96 100

61 112.0 0.0 286.4

98 86.5 0.0 127.4





#29

Tetrahydrofuran

Concen: 0.431 ug/l

RT: 5.13 min Scan# 696

Delta R.T. 0.02 min

Lab File: VX0137862.D

Acq: 09 Dec 2019 19:41

Instrument :

MSVOA_X

ClientSampleId :

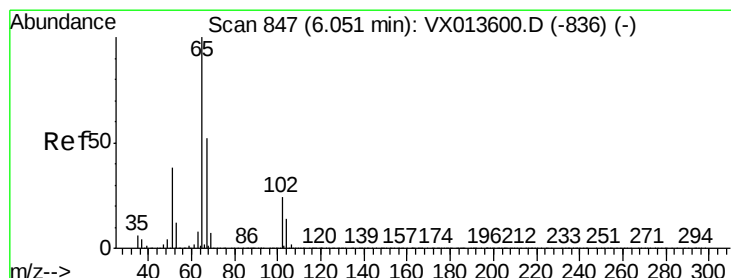
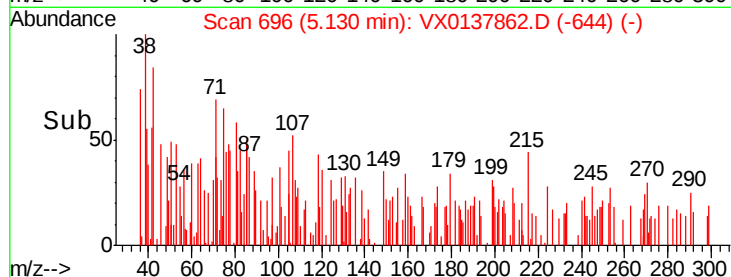
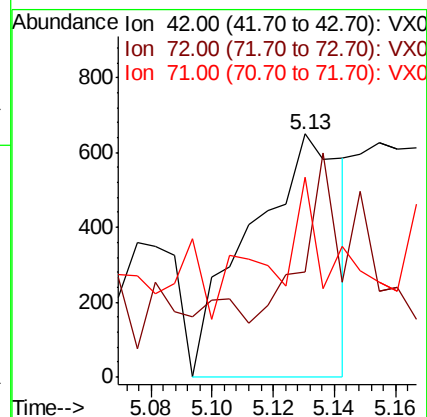
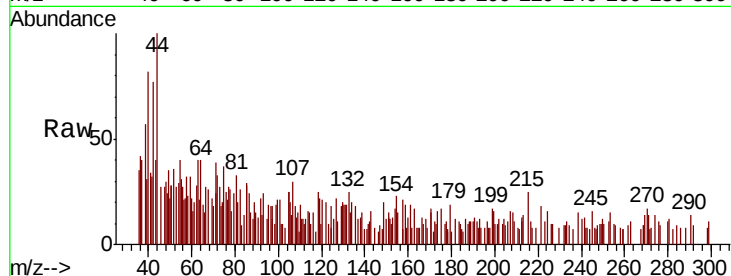
Tot Ion: 42 Resp: 1352

Ion Ratio Lower Upper

42 100

72 38.6 36.3 54.5

71 50.5 33.2 49.8#



#33

1,2-Dichloroethane-d4

Concen: 49.125 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX0137862.D

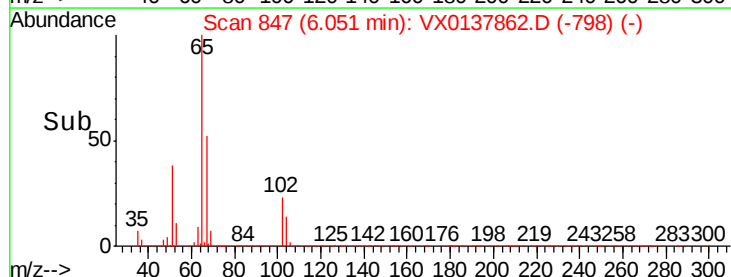
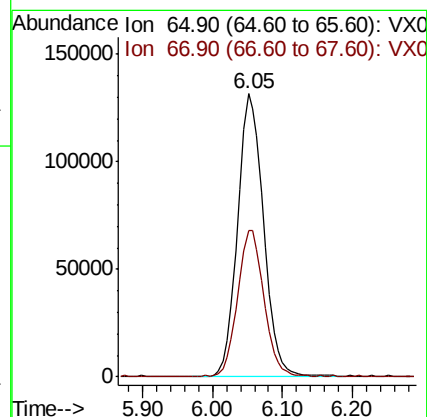
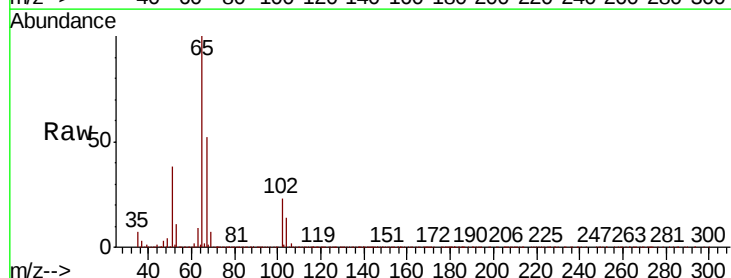
Acq: 09 Dec 2019 19:41

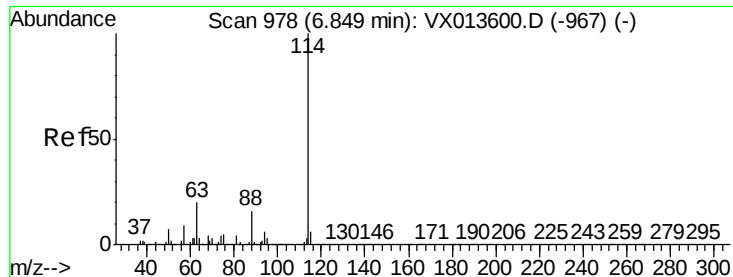
Tgt Ion: 65 Resp: 340490

Ion Ratio Lower Upper

65 100

67 52.4 0.0 104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX0137862.D

Acq: 09 Dec 2019 19:41

Instrument :

MSVOA_X

ClientSampleId :

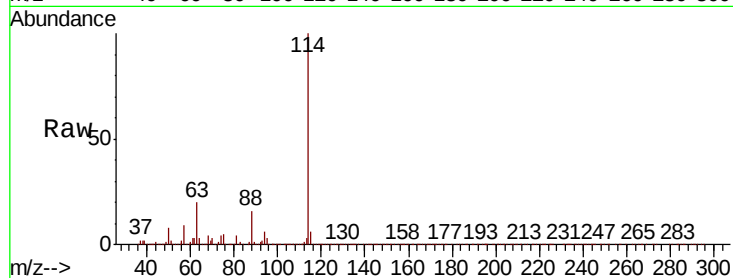
Tot Ion:114 Resp: 928661

Ion Ratio Lower Upper

114 100

63 20.3 0.0 39.6

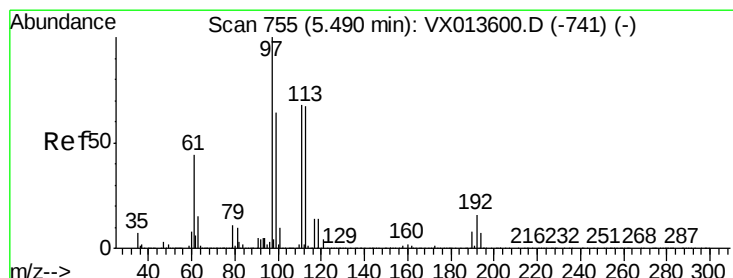
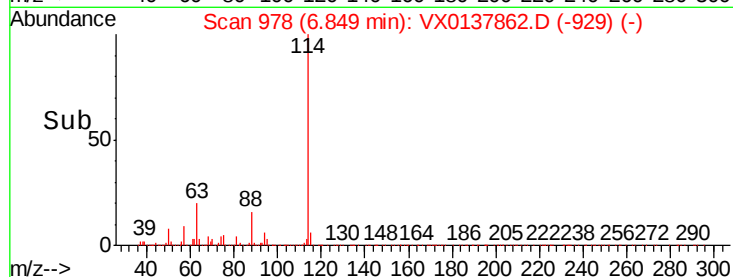
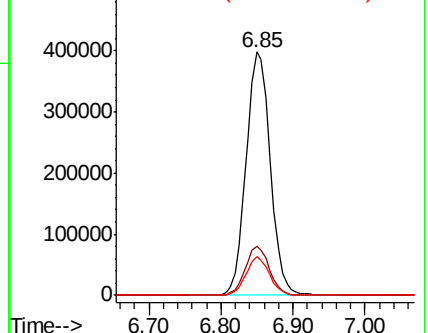
88 15.7 0.0 31.4



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: 48.268 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX0137862.D

Acq: 09 Dec 2019 19:41

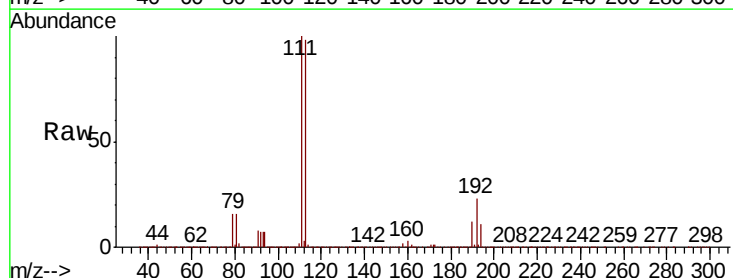
Tgt Ion:113 Resp: 277114

Ion Ratio Lower Upper

113 100

111 102.5 83.6 125.4

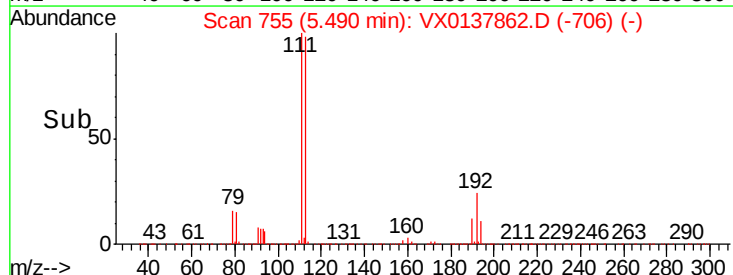
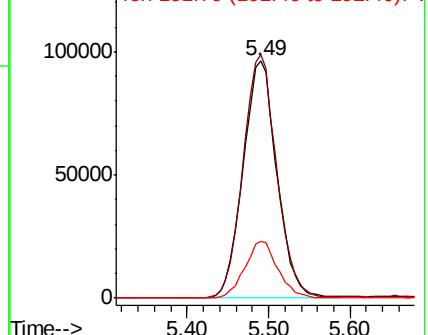
192 23.5 19.2 28.8

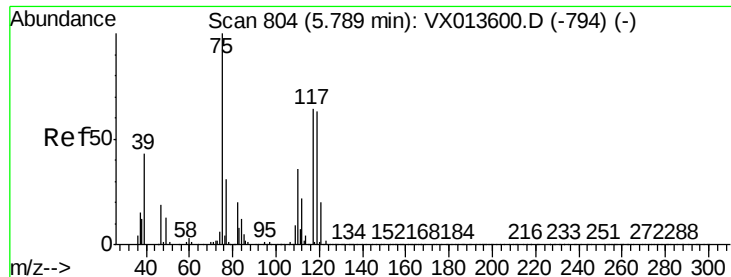


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

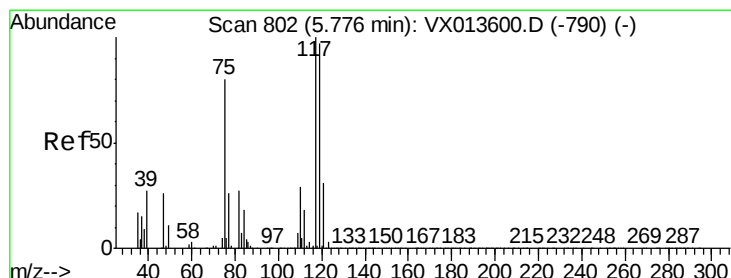
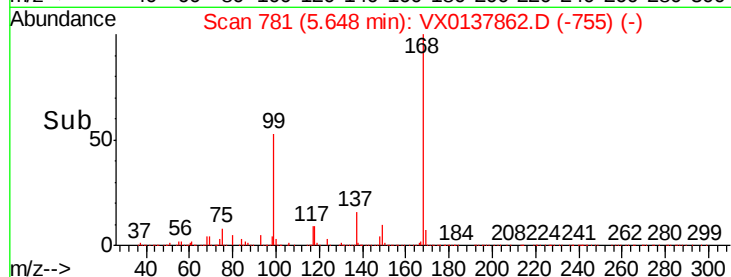
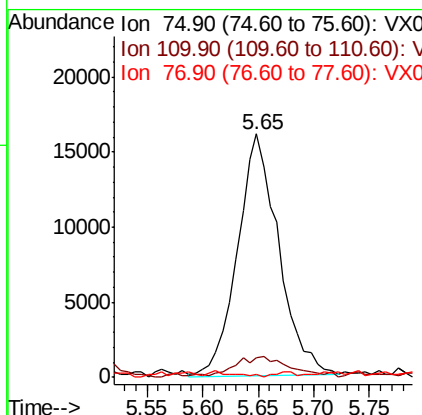
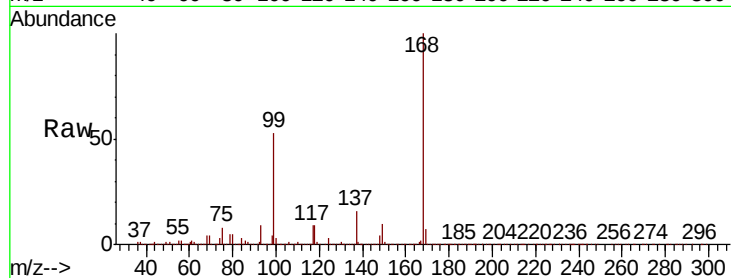




#36
 1,1-Dichloropropene
 Concen: 4.922 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX0137862.D
 Acq: 09 Dec 2019 19:41

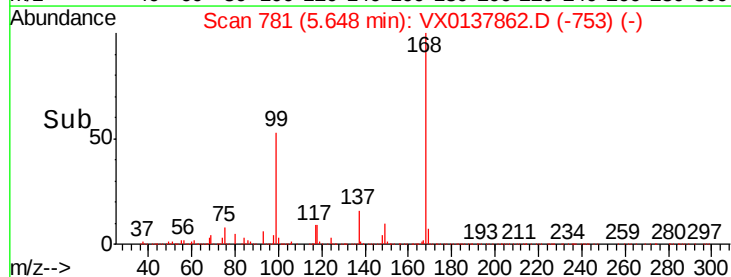
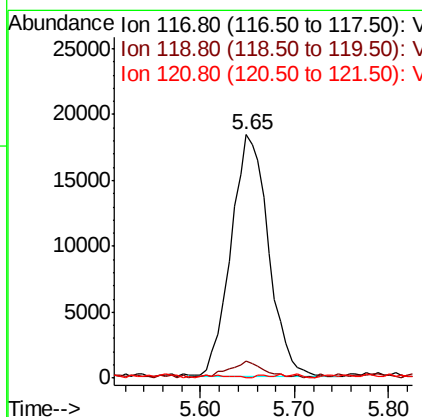
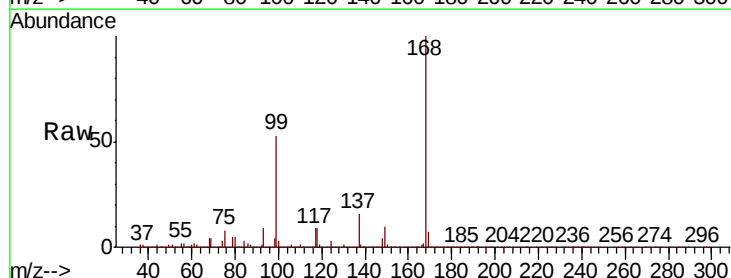
Instrument :
 MSVOA_X
 ClientSampleId :

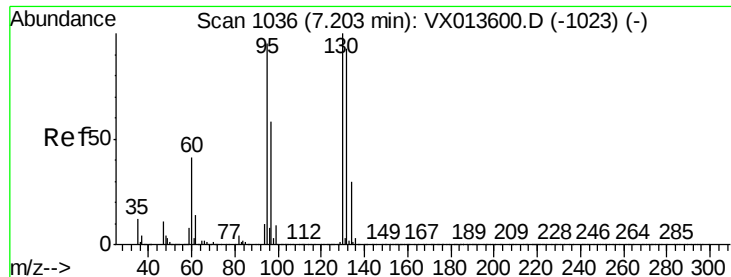
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.8	18.1	54.1#
77	0.0	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 6.586 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX0137862.D
 Acq: 09 Dec 2019 19:41

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.9	77.5	116.3#
121	0.0	25.0	37.6#





#44

Trichloroethene

Concen: 4.776 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX0137862.D

Acq: 09 Dec 2019 19:41

Instrument :

MSVOA_X

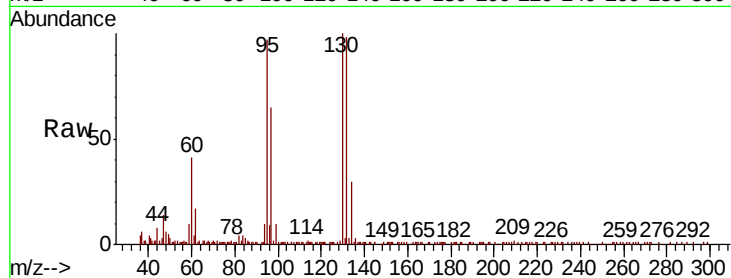
ClientSampled :

Tot Ion:130 Resp: 33656

Ion Ratio Lower Upper

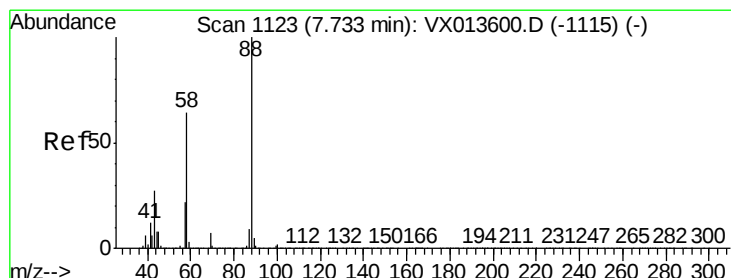
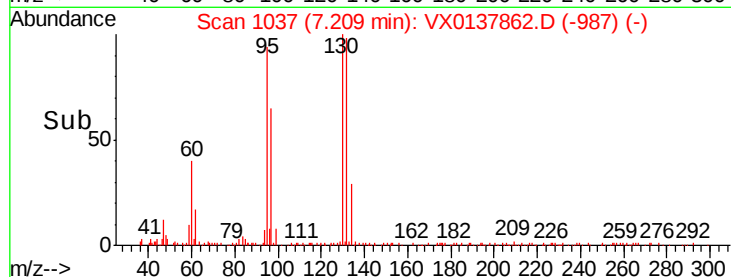
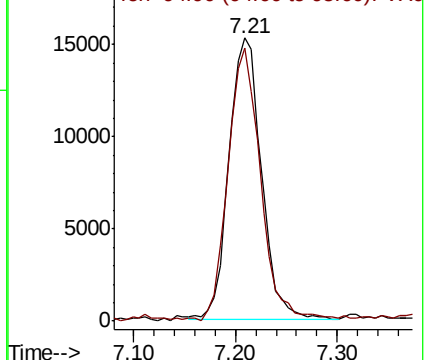
130 100

95 96.2 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.986 ug/l

RT: 7.75 min Scan# 1126

Delta R.T. 0.02 min

Lab File: VX0137862.D

Acq: 09 Dec 2019 19:41

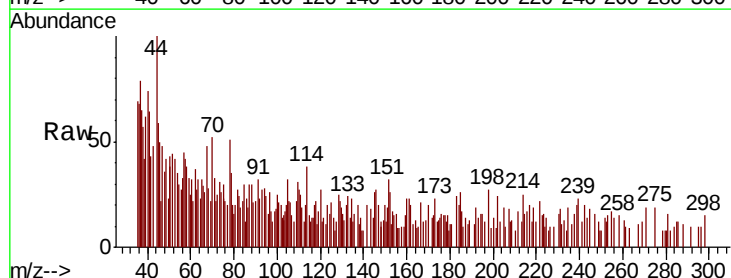
Tgt Ion: 88 Resp: 167

Ion Ratio Lower Upper

88 100

43 732.9 25.8 38.6#

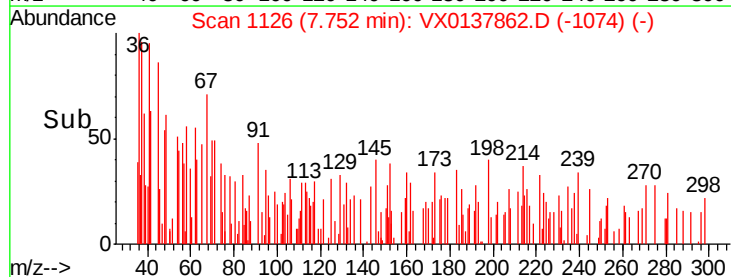
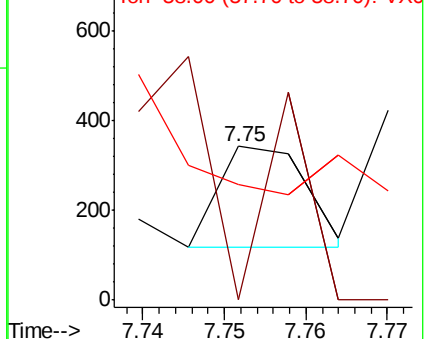
58 415.6 54.6 82.0#

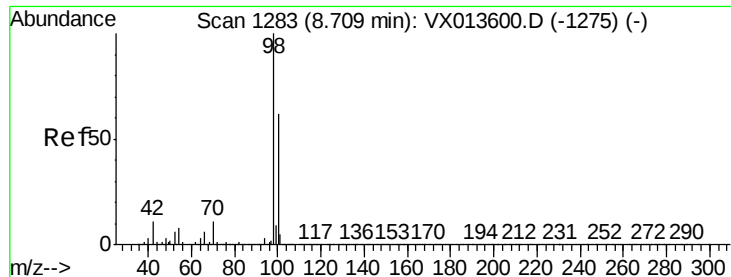


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

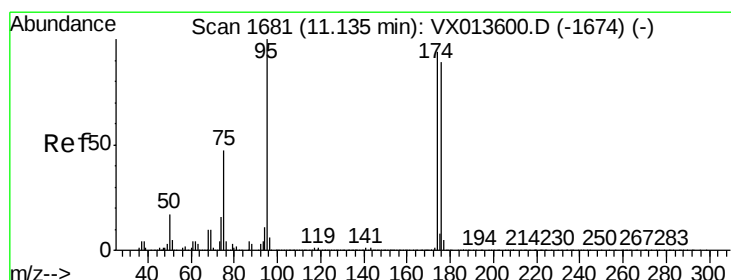
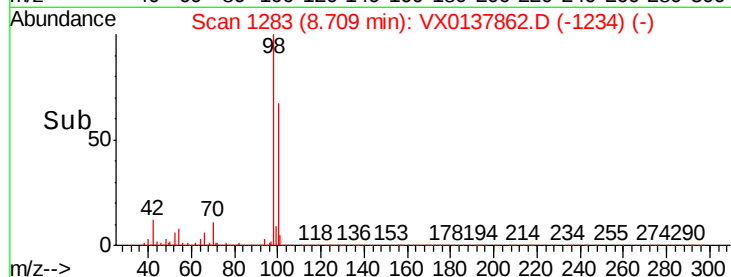
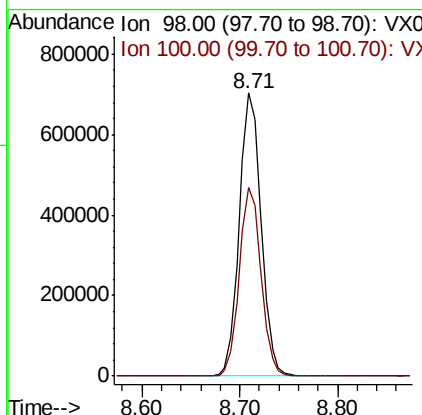
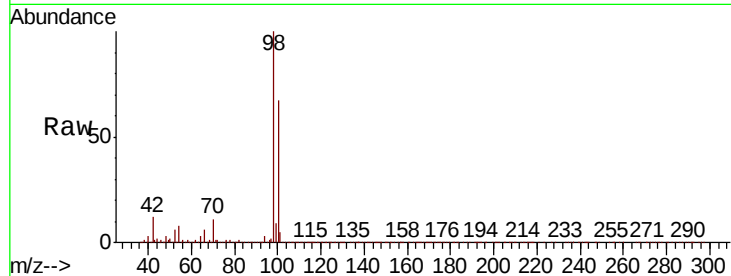




#50
Toluene-d8
Concen: 48.809 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX0137862.D
Acq: 09 Dec 2019 19:41

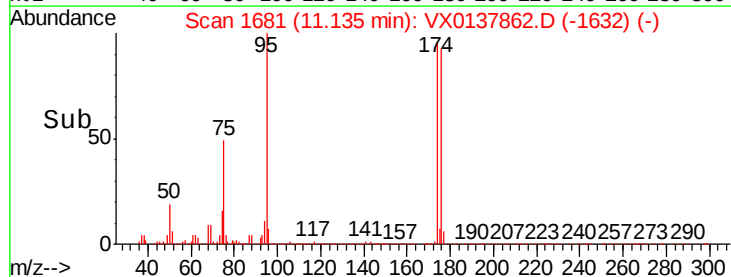
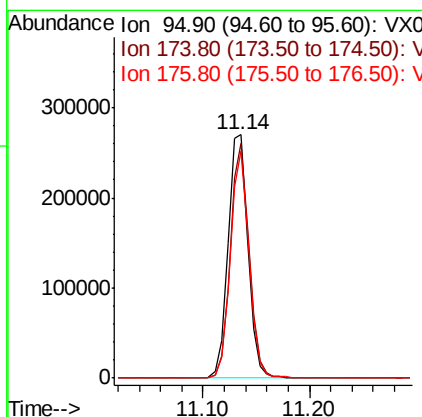
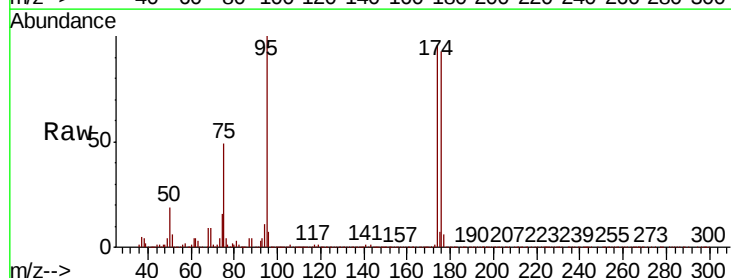
Instrument :
MSVOA_X
ClientSampled :

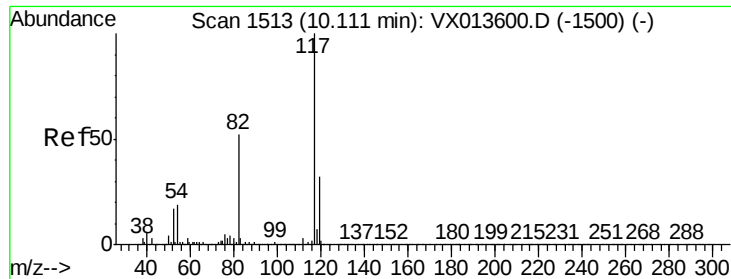
Tot Ion: 98 Resp: 1091760
Ion Ratio Lower Upper
98 100
100 66.1 53.1 79.7



#62
4-Bromofluorobenzene
Concen: 44.067 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX0137862.D
Acq: 09 Dec 2019 19:41

Tgt Ion: 95 Resp: 355439
Ion Ratio Lower Upper
95 100
174 90.6 0.0 180.0
176 87.4 0.0 173.6

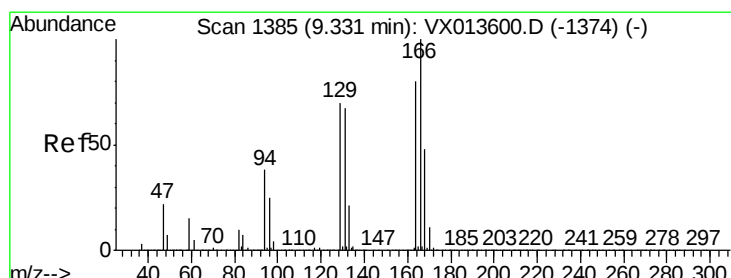
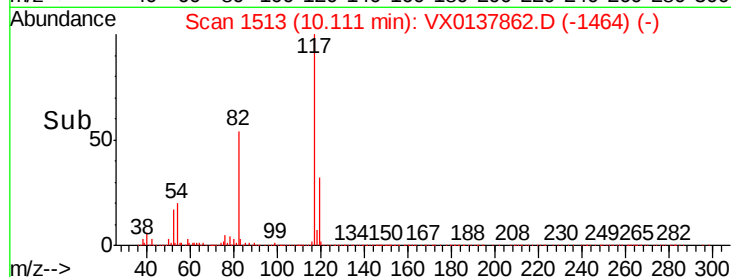
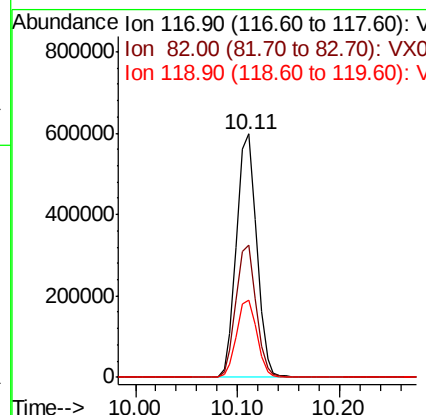
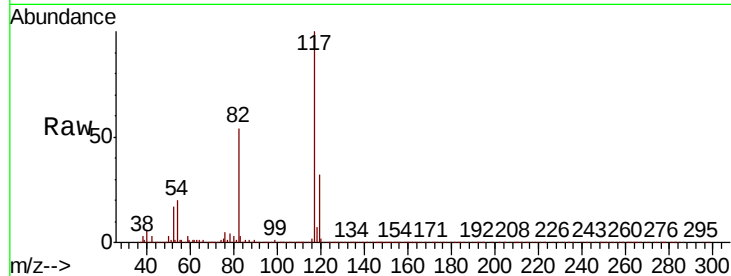




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX0137862.D
Acq: 09 Dec 2019 19:41

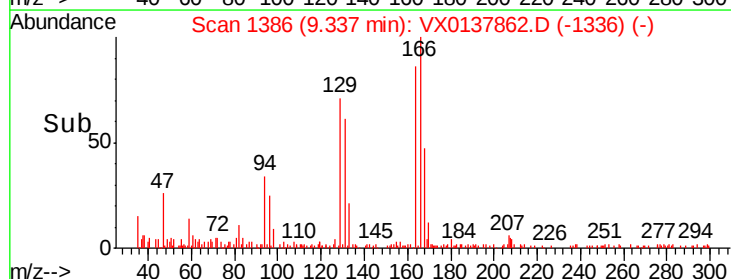
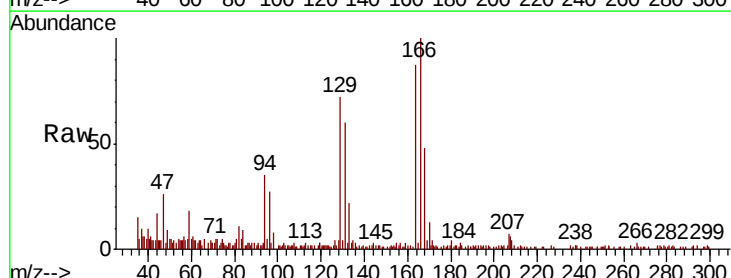
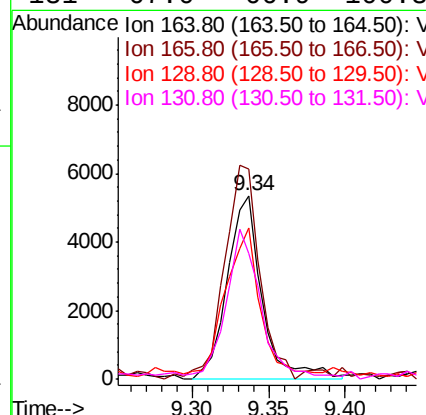
Instrument :
MSVOA_X
ClientSampleId :

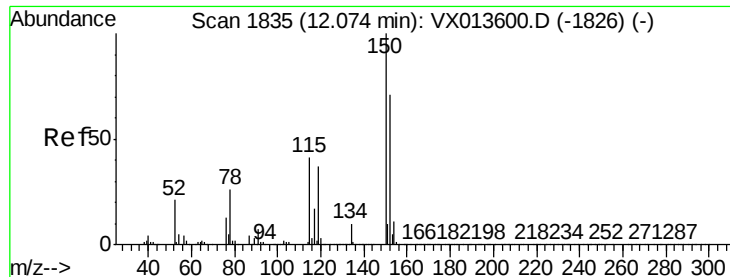
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.2	41.8	62.8
119	31.8	25.8	38.8



#64
Tetrachloroethene
Concen: 1.386 ug/l
RT: 9.34 min Scan# 1386
Delta R.T. 0.01 min
Lab File: VX0137862.D
Acq: 09 Dec 2019 19:41

Tgt Ion	Ratio	Lower	Upper
164	100		
166	110.0	99.7	149.5
129	78.3	70.1	105.1
131	67.0	66.9	100.3



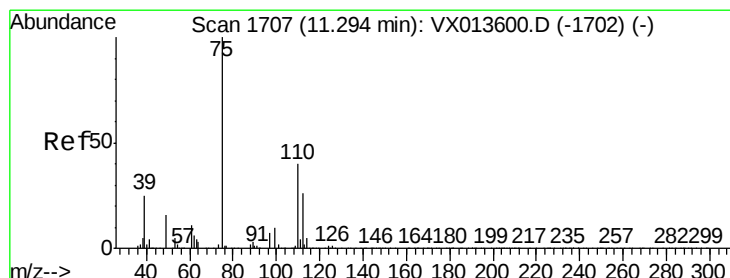
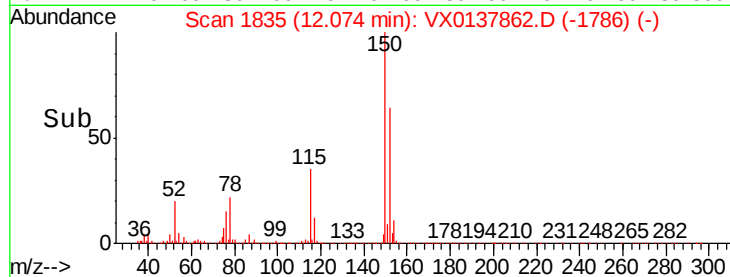
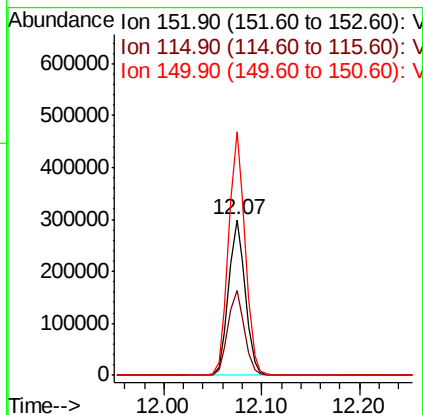
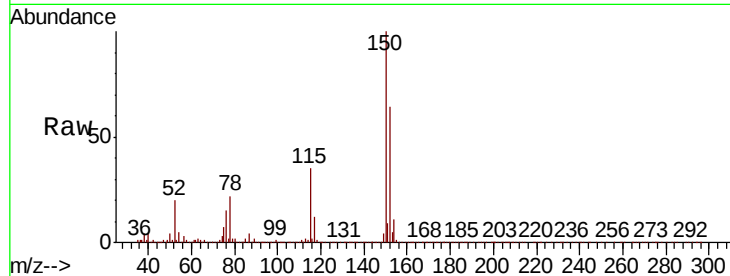


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX0137862.D
Acq: 09 Dec 2019 19:41

Instrument :
MSVOA_X
ClientSampleId :

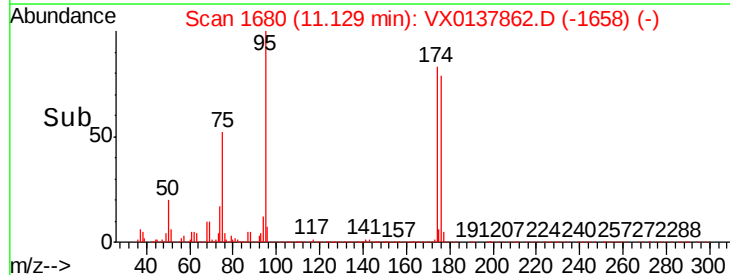
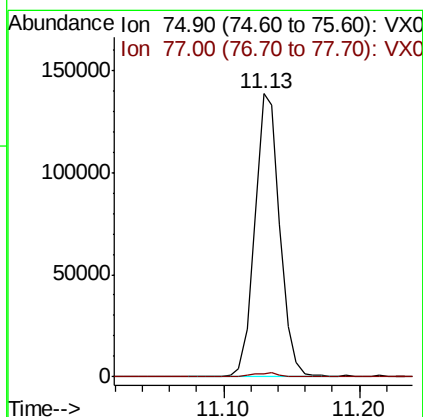
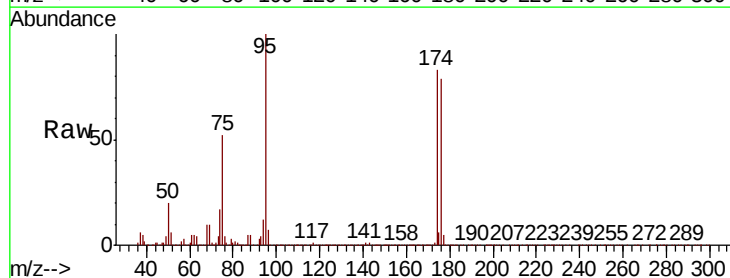
Tot Ion	Ratio	Lower	Upper
152	100		
115	54.8	38.4	115.1
150	154.9	0.0	346.8

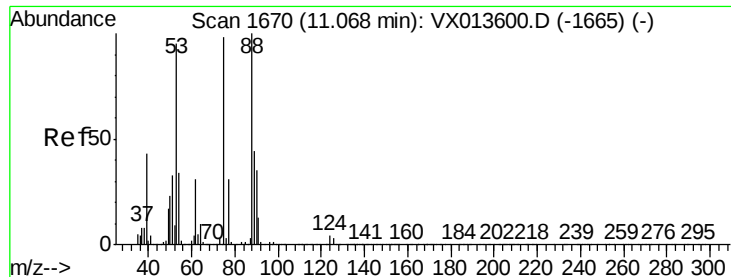


#76

1,2,3-Trichloropropane
Concen: 22.241 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX0137862.D
Acq: 09 Dec 2019 19:41

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.3	19.1	57.5#





#81

trans-1,4-Dichloro-2-butene

Concen: 60.849 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX0137862.D

Acq: 09 Dec 2019 19:41

Instrument :

MSVOA_X

ClientSampleId :

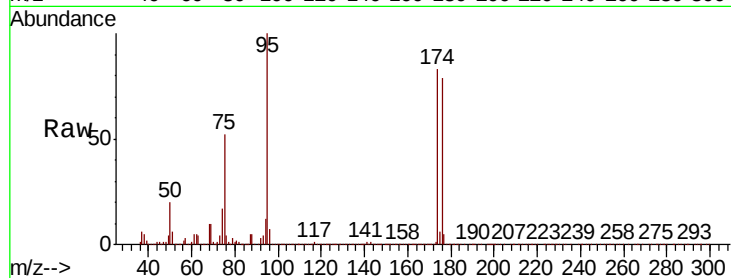
Tot Ion: 75 Resp: 177498

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.2#

89 0.0 35.4 53.2#



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

