

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX123019\
 Data File : VX014354.D
 Acq On : 30 Dec 2019 15:23
 Operator : JC/SP
 Sample : K6461-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 31 01:18:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	522383	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	810538	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	723689	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	319036	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	290871	49.13	ug/l	0.00
Spiked Amount			Recovery	=	98.26%	
35) Dibromofluoromethane	5.49	113	240292	48.77	ug/l	0.00
Spiked Amount			Recovery	=	97.54%	
50) Toluene-d8	8.71	98	960340	50.06	ug/l	0.00
Spiked Amount			Recovery	=	100.12%	
62) 4-Bromofluorobenzene	11.13	95	322241	45.95	ug/l	0.00
Spiked Amount			Recovery	=	91.90%	

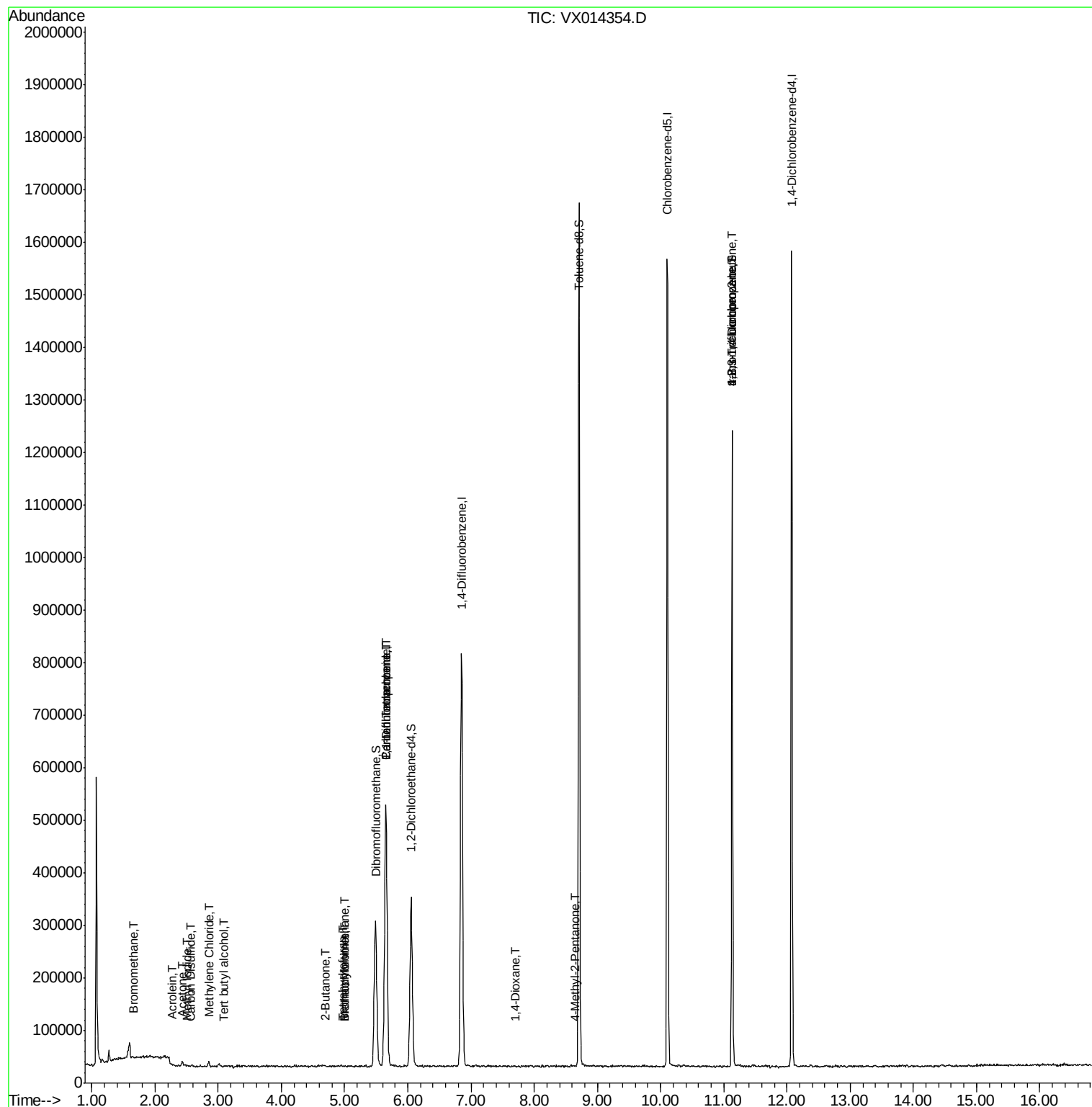
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.66	94	1532	0.326	ug/l #	29
10) Methyl Iodide	2.51	142	1210	2.797	ug/l #	51
11) Tert butyl alcohol	3.09	59	379	0.296	ug/l #	72
13) Acrolein	2.28	56	607	0.829	ug/l #	77
16) Acetone	2.43	43	9762	2.540	ug/l	98
17) Carbon Disulfide	2.56	76	1074	0.826	ug/l #	75
20) Methylene Chloride	2.85	84	5372	0.888	ug/l	88
25) 2-Butanone	4.69	43	1553	0.328	ug/l #	63
28) Bromochloromethane	5.00	49	1296	0.789	ug/l #	37
29) Tetrahydrofuran	4.98	42	724	0.273	ug/l	97
36) 1,1-Dichloropropene	5.65	75	35546	4.780	ug/l #	51
38) Carbon Tetrachloride	5.65	117	44120	6.512	ug/l #	17
41) Methacrylonitrile	5.01	41	1091	0.239	ug/l #	51
49) 1,4-Dioxane	7.70	88	252	1.861	ug/l #	11
51) 4-Methyl-2-Pentanone	8.64	43	2099	0.246	ug/l	91
76) 1,2,3-Trichloropropane	11.13	75	157286	22.709	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	157286	64.096	ug/l #	12

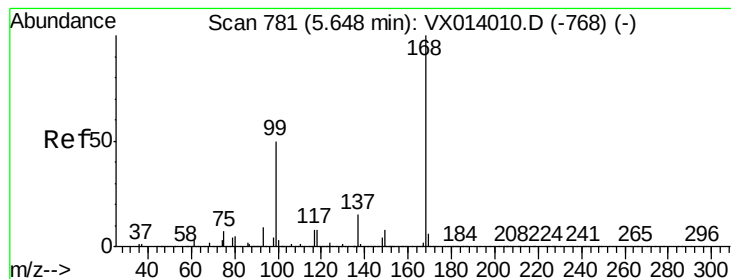
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014354.D

Acq: 30 Dec 2019 15:23

Instrument :

MSVOA_X

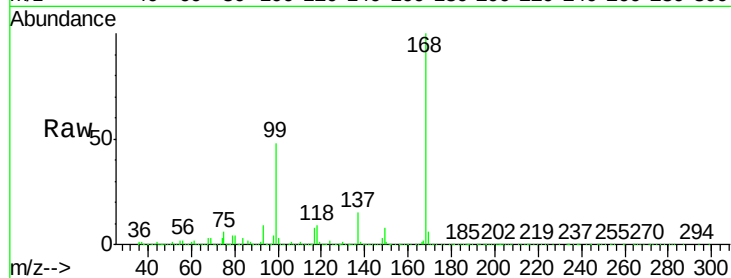
ClientSampleId :

Tot Ion:168 Resp: 522383

Ion Ratio Lower Upper

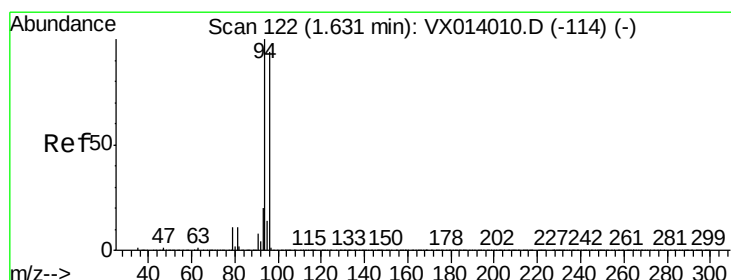
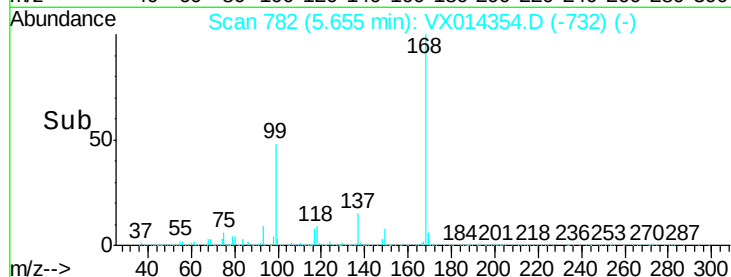
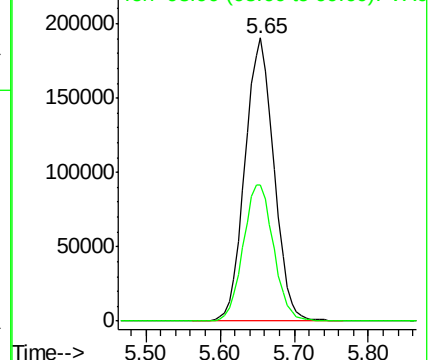
168 100

99 48.2 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.326 ug/l

RT: 1.66 min Scan# 127

Delta R.T. 0.03 min

Lab File: VX014354.D

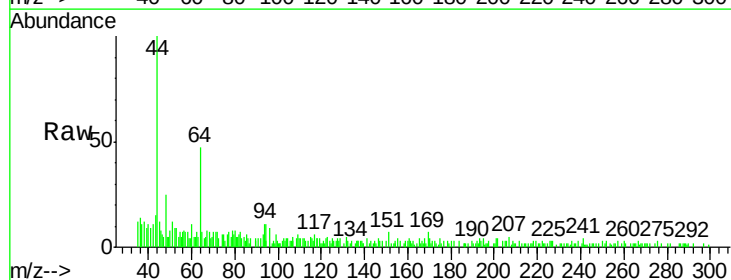
Acq: 30 Dec 2019 15:23

Tgt Ion: 94 Resp: 1532

Ion Ratio Lower Upper

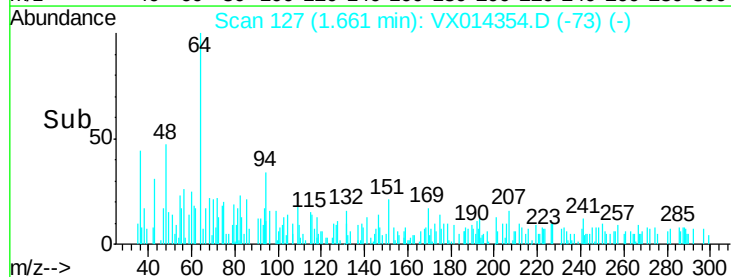
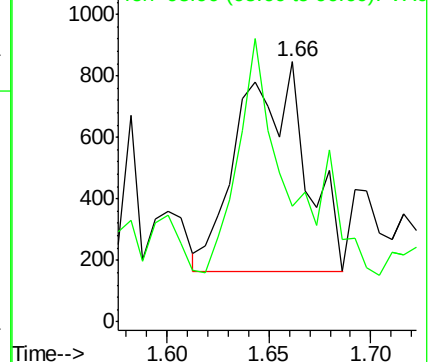
94 100

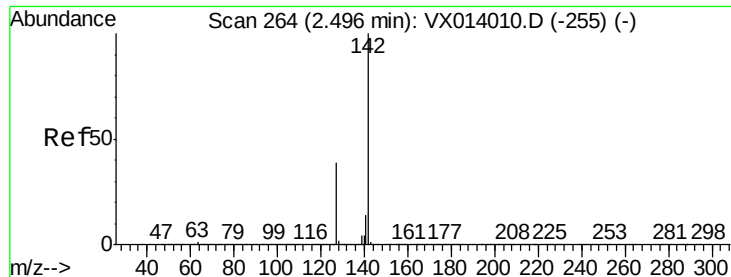
96 25.3 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

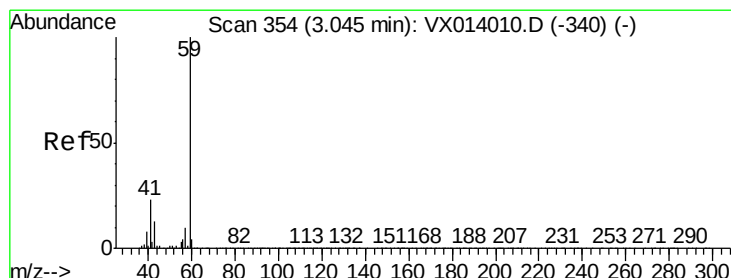
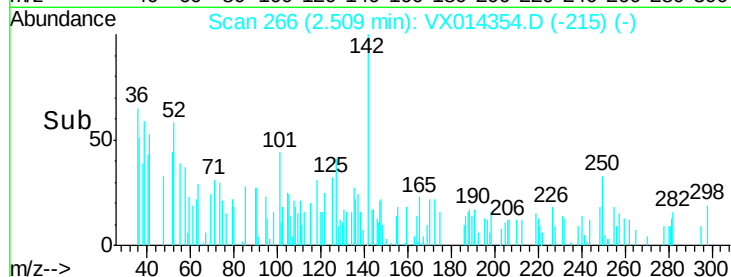
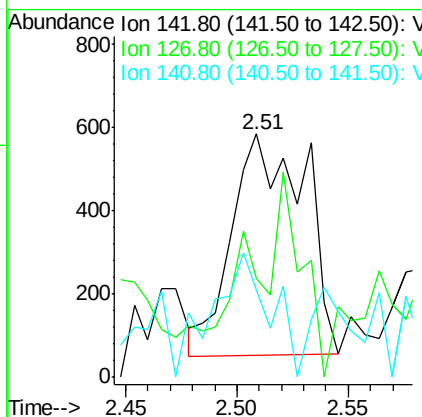
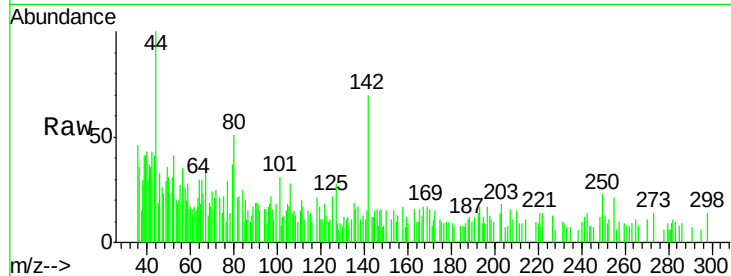




#10
Methvl Iodide
Concen: 2.797 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX014354.D
Acq: 30 Dec 2019 15:23

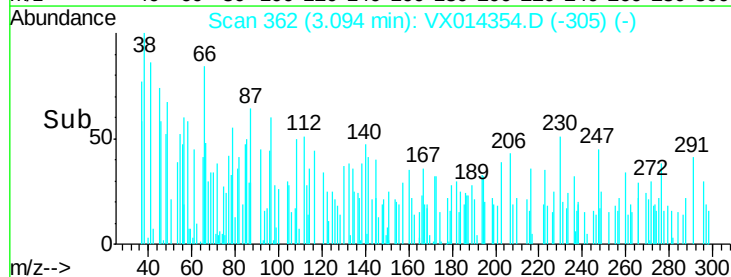
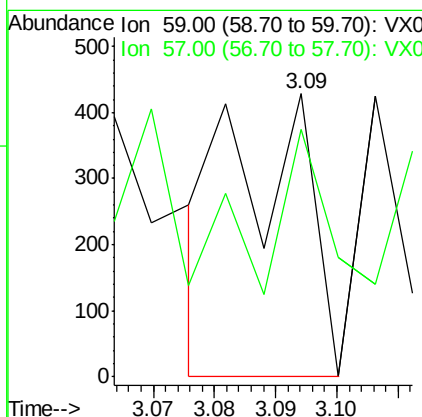
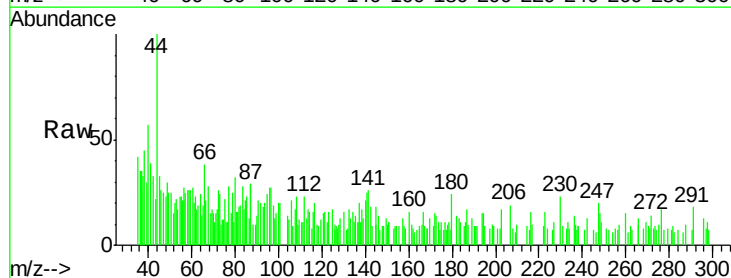
Instrument :
MSVOA_X
ClientSampleId :

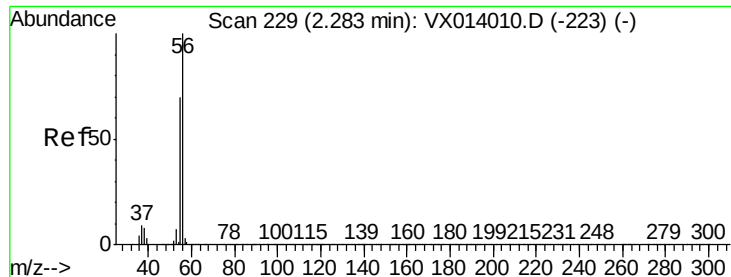
Tot Ion:142 Resp: 1210
Ion Ratio Lower Upper
142 100
127 64.0 31.6 47.4#
141 44.6 11.6 17.4#



#11
Tert butyl alcohol
Concen: 0.296 ug/l
RT: 3.09 min Scan# 362
Delta R.T. 0.05 min
Lab File: VX014354.D
Acq: 30 Dec 2019 15:23

Tgt Ion: 59 Resp: 379
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#

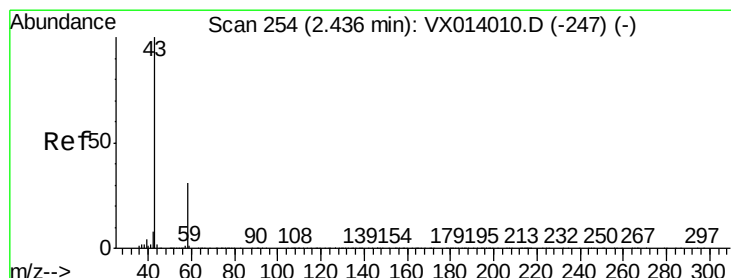
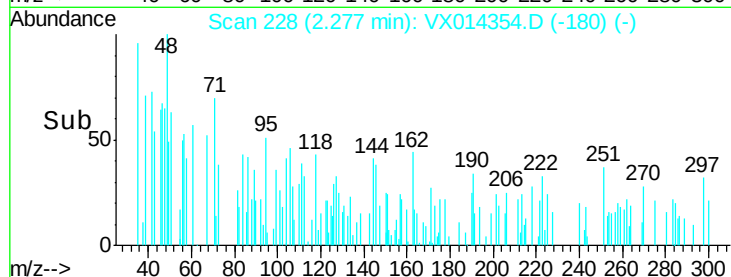
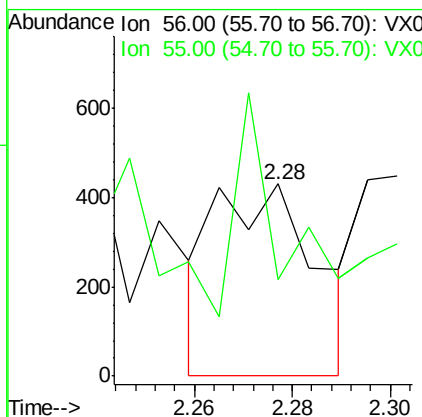
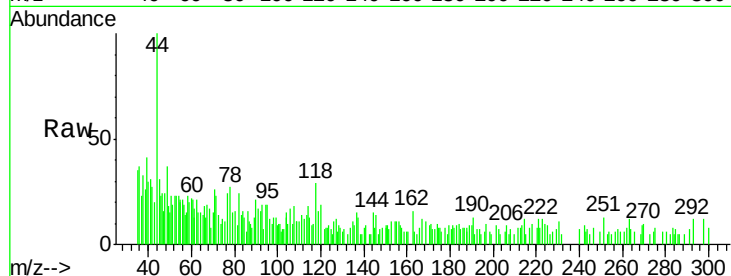




#13
Acrolein
Concen: 0.829 ug/l
RT: 2.28 min Scan# 228
Delta R.T. -0.01 min
Lab File: VX014354.D
Acq: 30 Dec 2019 15:23

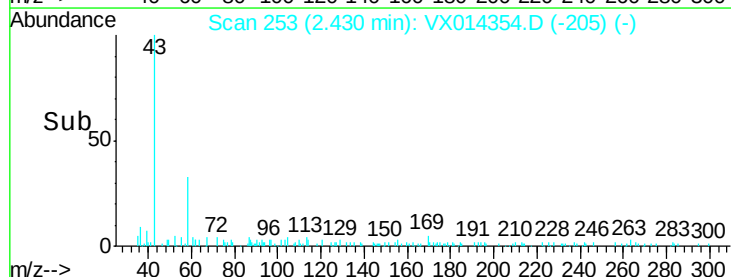
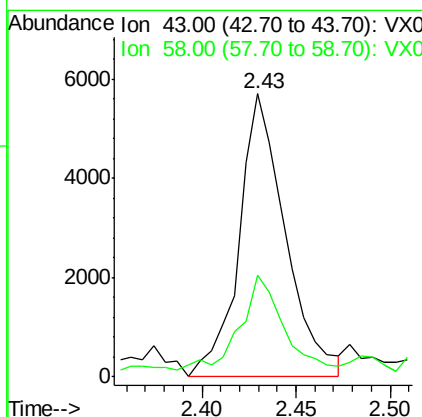
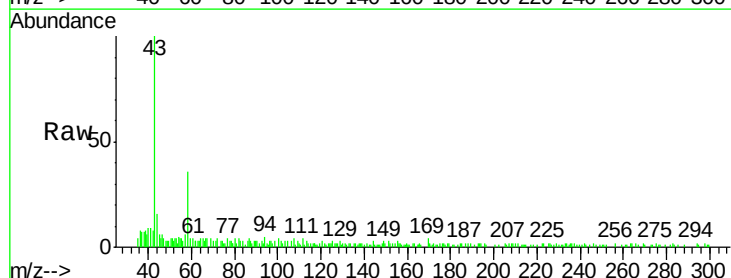
Instrument :
MSVOA_X
ClientSampled :

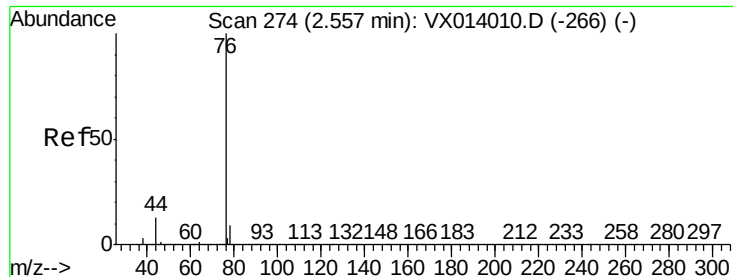
Tot Ion: 56 Resp: 607
Ion Ratio Lower Upper
56 100
55 52.2 56.9 85.3#



#16
Acetone
Concen: 2.540 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX014354.D
Acq: 30 Dec 2019 15:23

Tgt Ion: 43 Resp: 9762
Ion Ratio Lower Upper
43 100
58 32.2 24.9 37.3





#17

Carbon Disulfide

Concen: 0.826 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014354.D

Acq: 30 Dec 2019 15:23

Instrument :

MSVOA_X

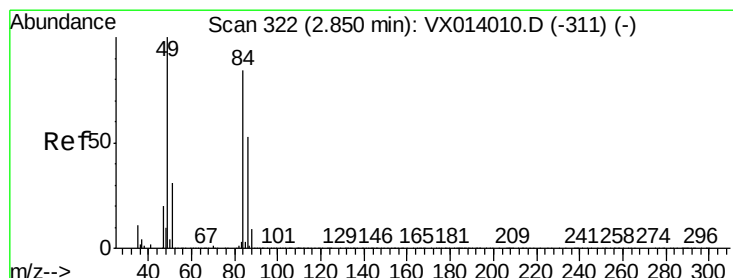
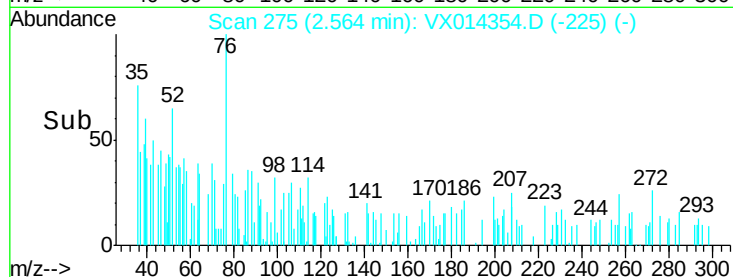
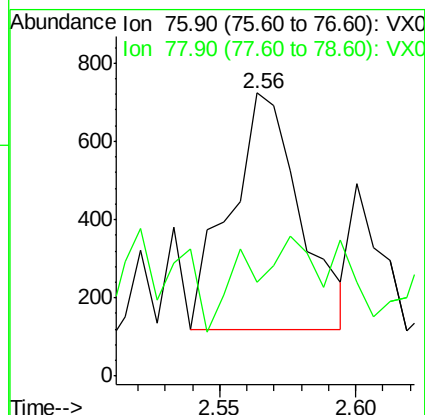
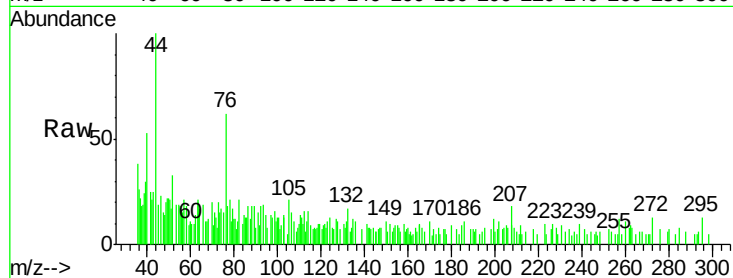
ClientSampled :

Tot Ion: 76 Resp: 1074

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



#20

Methylene Chloride

Concen: 0.888 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.00 min

Lab File: VX014354.D

Acq: 30 Dec 2019 15:23

Tgt Ion: 84 Resp: 5372

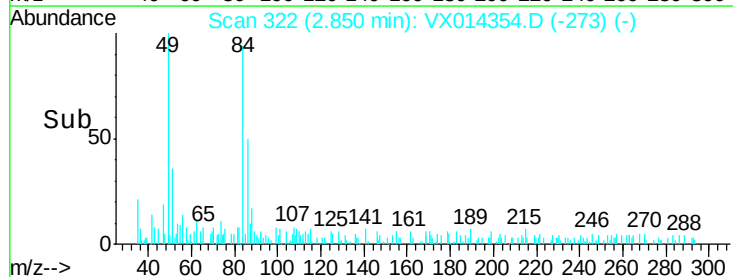
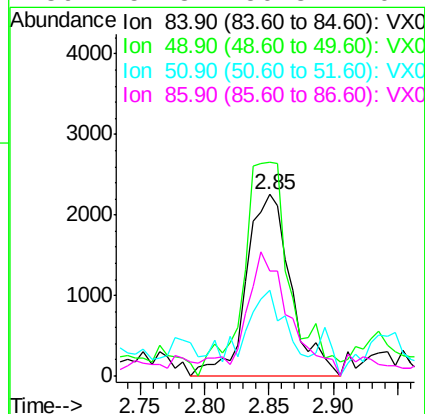
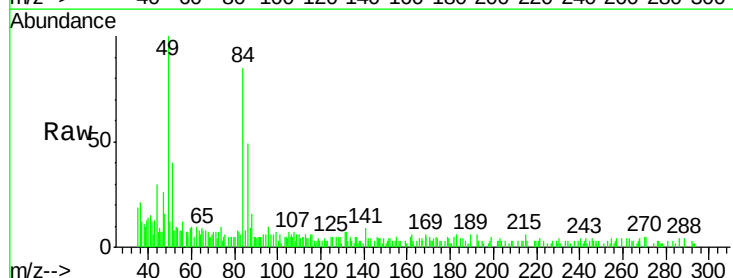
Ion Ratio Lower Upper

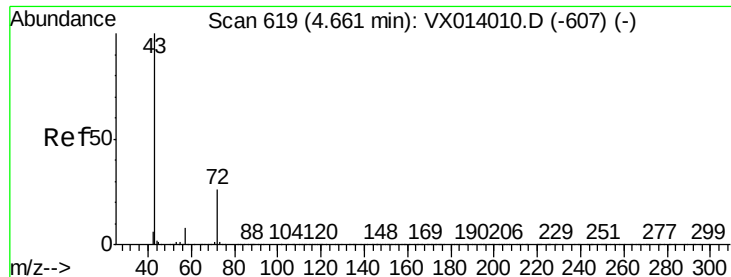
84 100

49 103.2 95.8 143.6

51 35.9 29.8 44.8

86 52.8 50.8 76.2





#25

2-Butanone

Concen: 0.328 ug/l

RT: 4.69 min Scan# 624

Delta R.T. 0.03 min

Lab File: VX014354.D

Acq: 30 Dec 2019 15:23

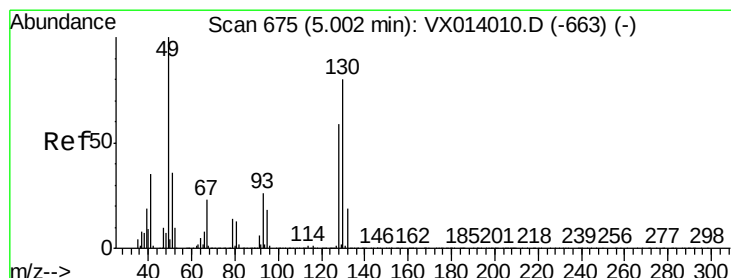
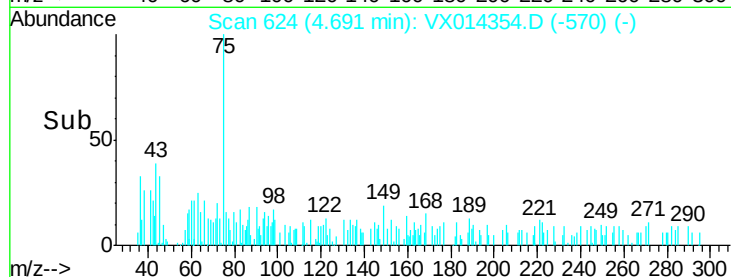
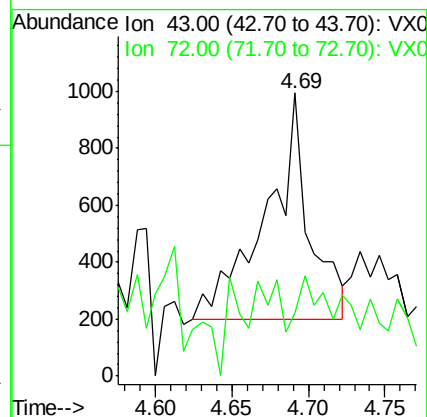
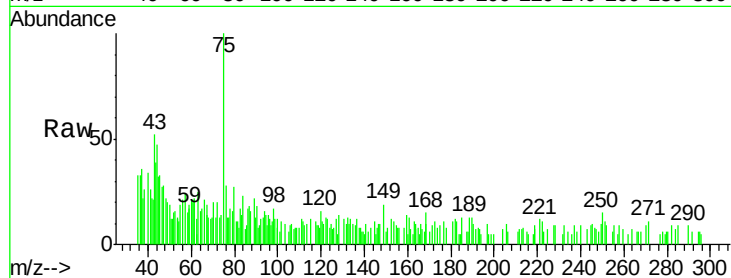
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 1553

Ion Ratio Lower Upper

43 100

72 7.1 21.0 31.4#



#28

Bromochloromethane

Concen: 0.789 ug/l

RT: 5.00 min Scan# 675

Delta R.T. 0.00 min

Lab File: VX014354.D

Acq: 30 Dec 2019 15:23

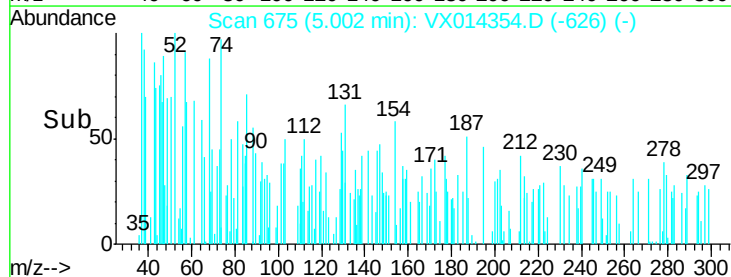
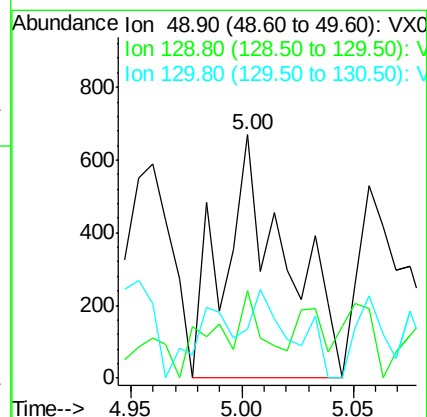
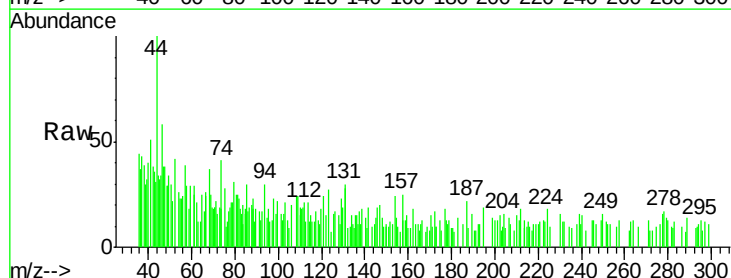
Tgt Ion: 49 Resp: 1296

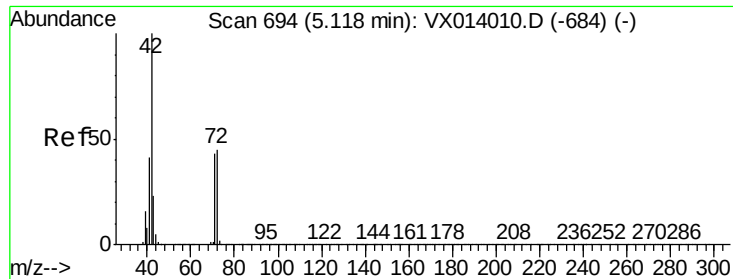
Ion Ratio Lower Upper

49 100

129 28.3 0.0 5.0#

130 25.6 64.6 97.0#

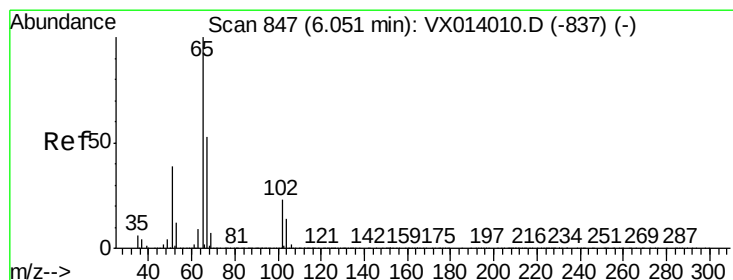
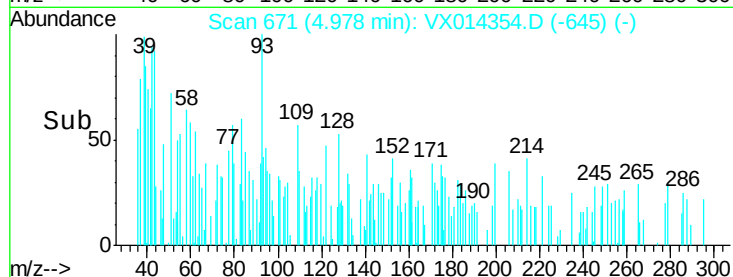
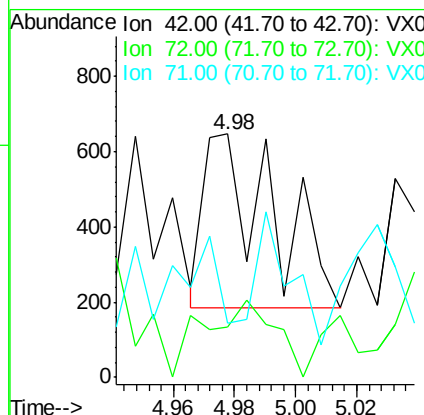
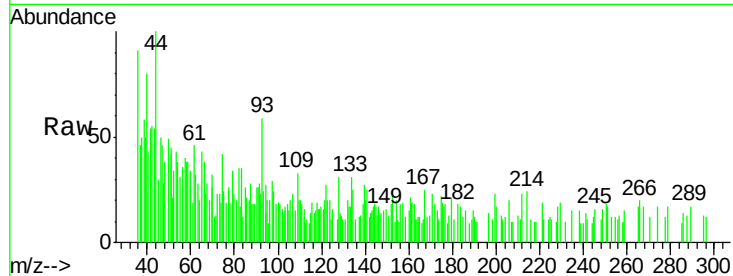




#29
Tetrahydrofuran
Concen: 0.273 ug/l
RT: 4.98 min Scan# 671
Delta R.T. -0.14 min
Lab File: VX014354.D
Acq: 30 Dec 2019 15:23

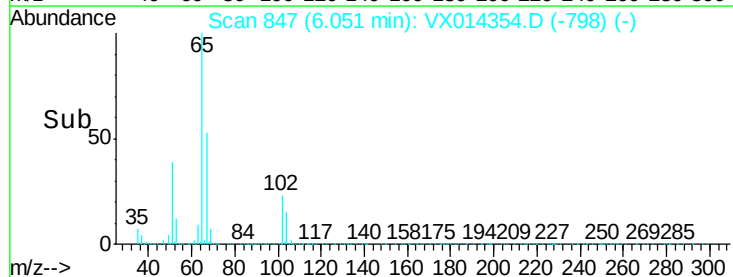
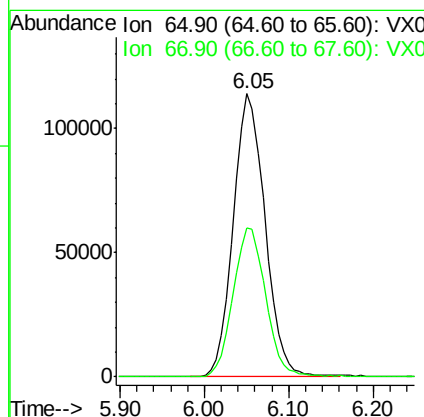
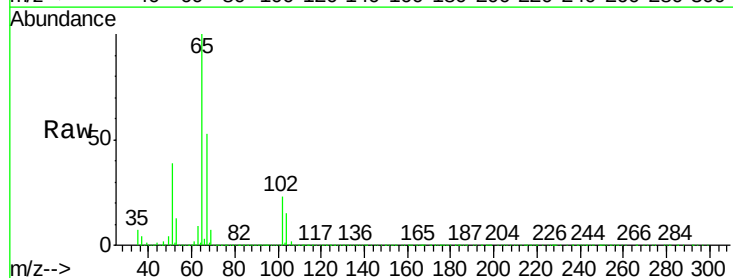
Instrument :
MSVOA_X
ClientSampleId :

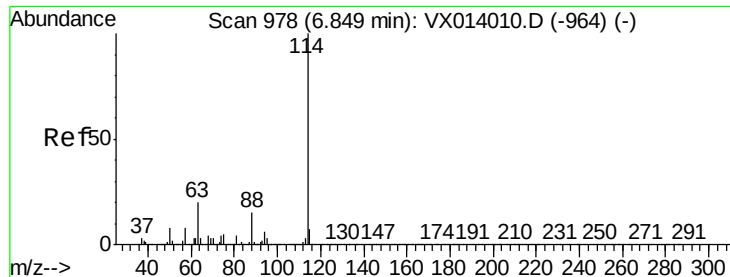
Tot Ion: 42 Resp: 724
Ion Ratio Lower Upper
42 100
72 45.7 35.8 53.8
71 39.0 33.6 50.4



#33
1,2-Dichloroethane-d4
Concen: 49.130 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX014354.D
Acq: 30 Dec 2019 15:23

Tgt Ion: 65 Resp: 290871
Ion Ratio Lower Upper
65 100
67 53.1 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014354.D

Acq: 30 Dec 2019 15:23

Instrument :

MSVOA_X

ClientSampleId :

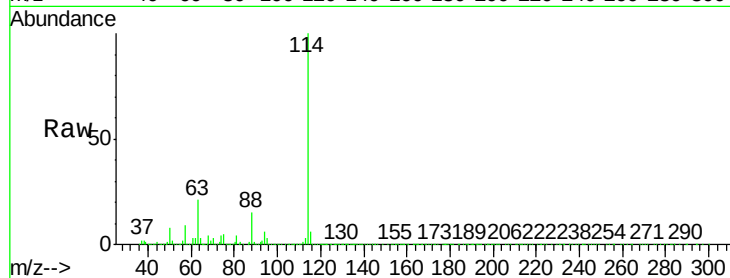
Tot Ion:114 Resp: 810538

Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.8

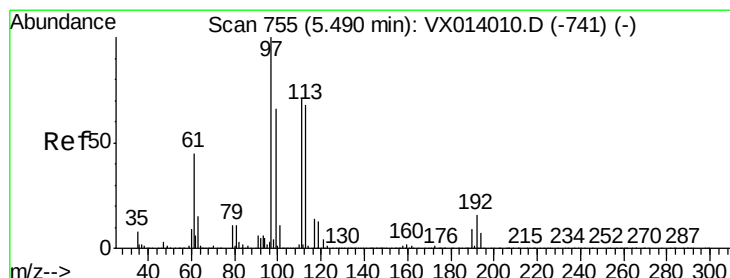
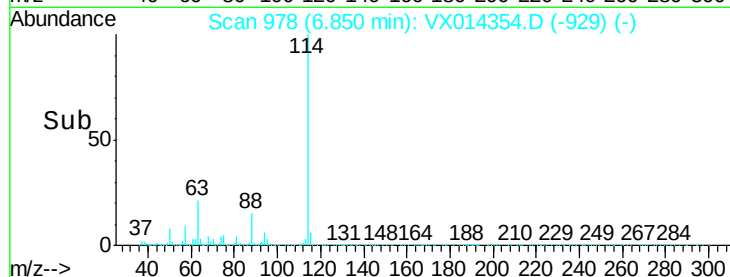
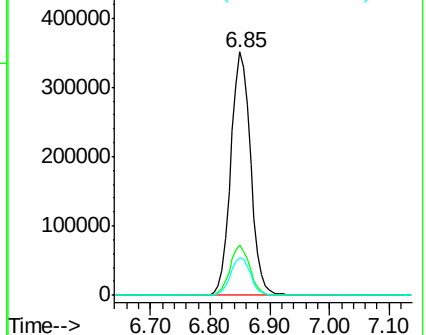
88 15.3 0.0 30.4



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: 48.769 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014354.D

Acq: 30 Dec 2019 15:23

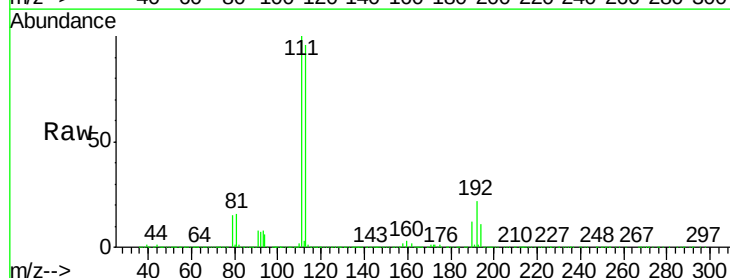
Tgt Ion:113 Resp: 240292

Ion Ratio Lower Upper

113 100

111 102.4 82.0 123.0

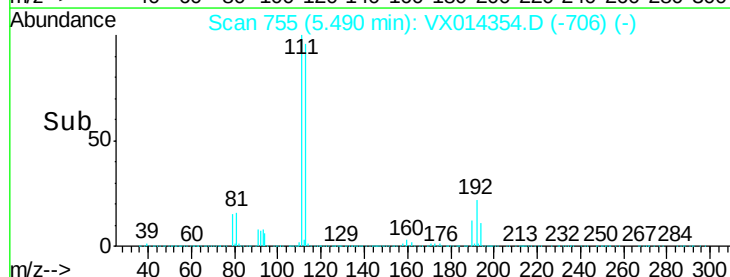
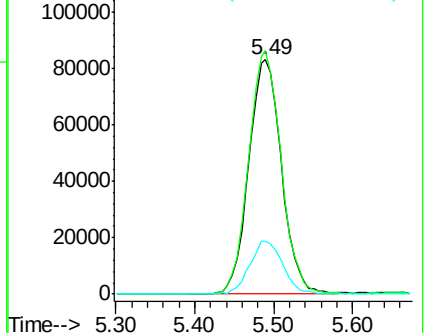
192 23.2 19.3 28.9

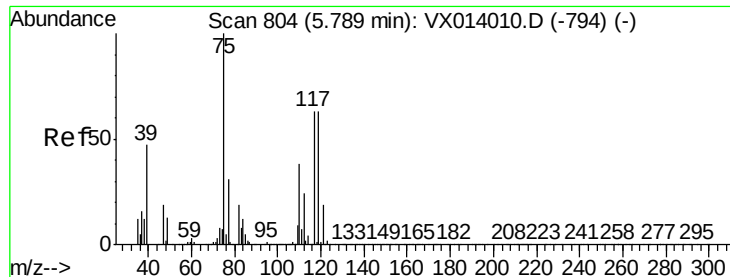


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

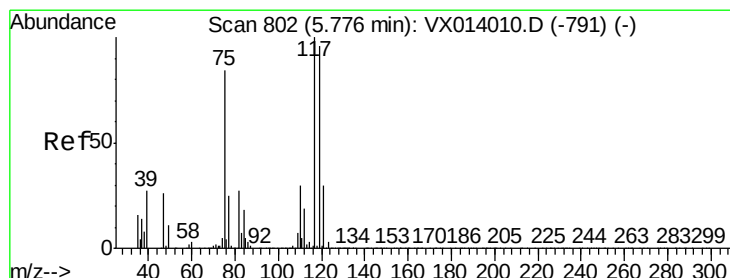
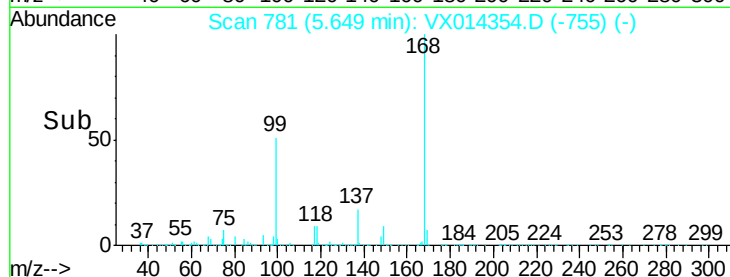
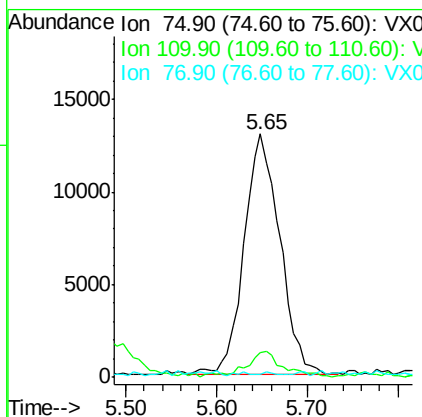
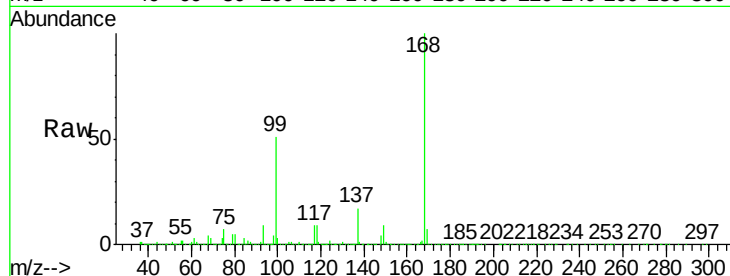




#36
 1,1-Dichloropropene
 Concen: 4.780 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX014354.D
 Acq: 30 Dec 2019 15:23

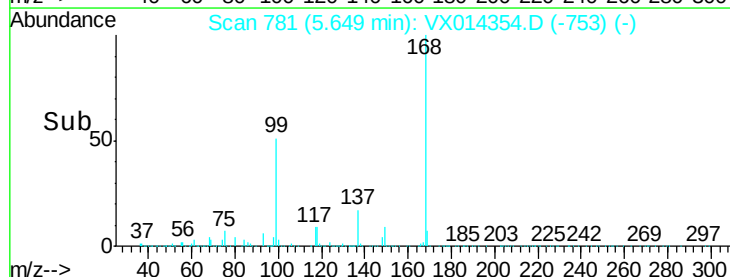
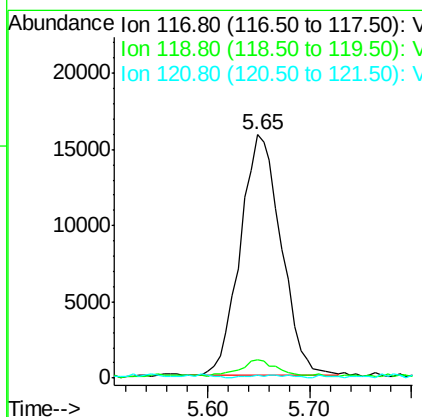
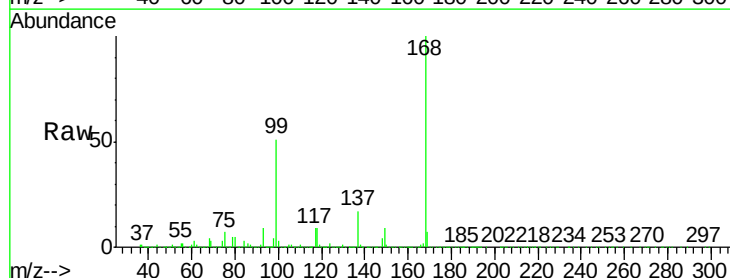
Instrument :
 MSVOA_X
 ClientSampleId :

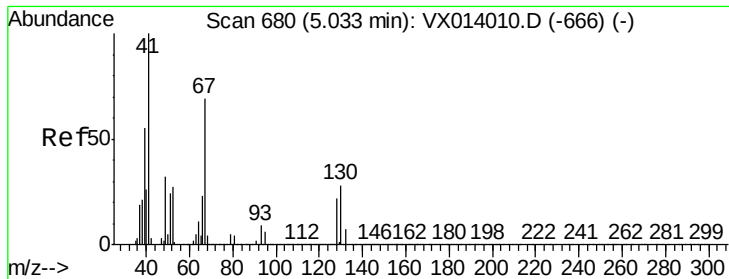
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.6	18.3	54.9#
77	0.5	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.512 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX014354.D
 Acq: 30 Dec 2019 15:23

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.6	76.2	114.4#
121	0.2	23.6	35.4#





#41

Methacrylonitrile

Concen: 0.239 ug/l

RT: 5.01 min Scan# 676

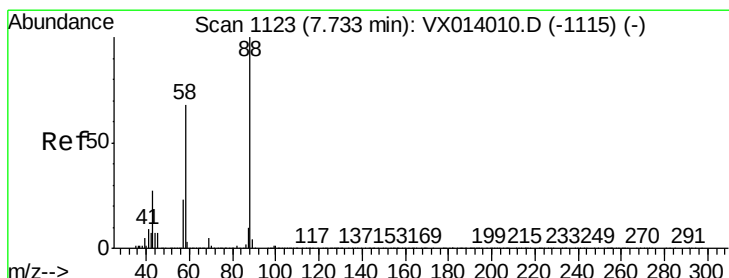
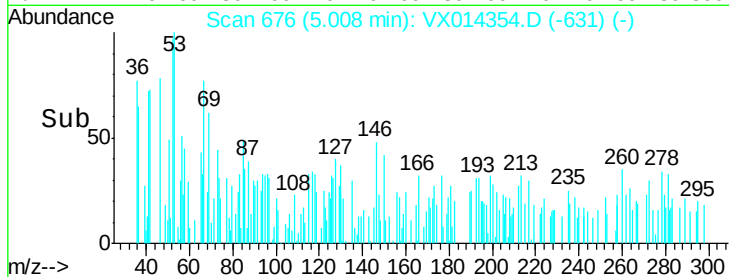
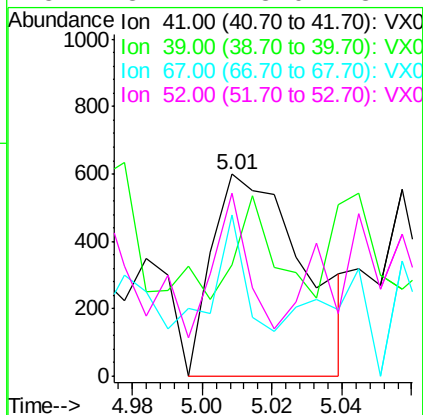
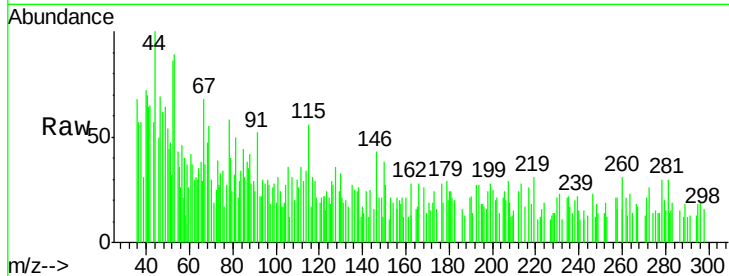
Delta R.T. -0.02 min

Lab File: VX014354.D

Acq: 30 Dec 2019 15:23

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	41	Resp:	1091
Ion	Ratio	Lower	Upper
41	100		
39	19.9	44.5	66.7#
67	17.8	57.4	86.0#
52	34.7	23.0	34.4#



#49

1,4-Dioxane

Concen: 1.861 ug/l

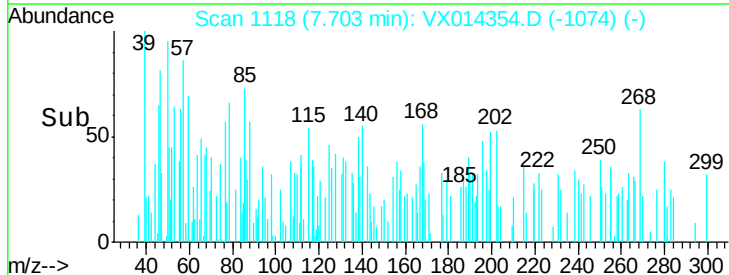
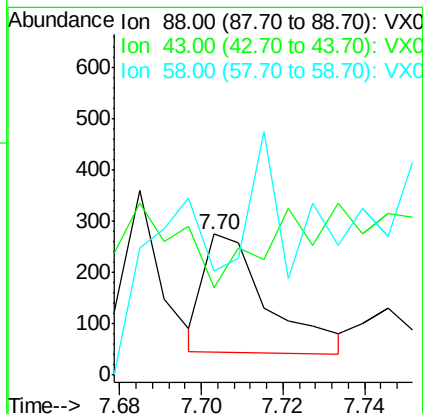
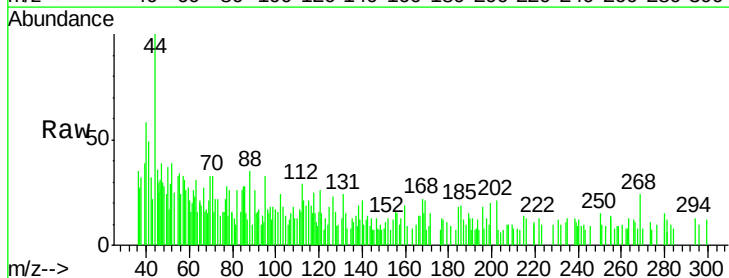
RT: 7.70 min Scan# 1118

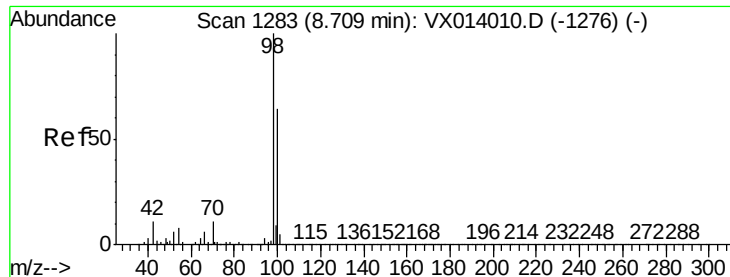
Delta R.T. -0.03 min

Lab File: VX014354.D

Acq: 30 Dec 2019 15:23

Tgt Ion:	88	Resp:	252
Ion	Ratio	Lower	Upper
88	100		
43	0.0	26.5	39.7#
58	156.7	56.8	85.2#





#50

Toluene-d8

Concen: 50.063 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014354.D

Acq: 30 Dec 2019 15:23

Instrument :

MSVOA_X

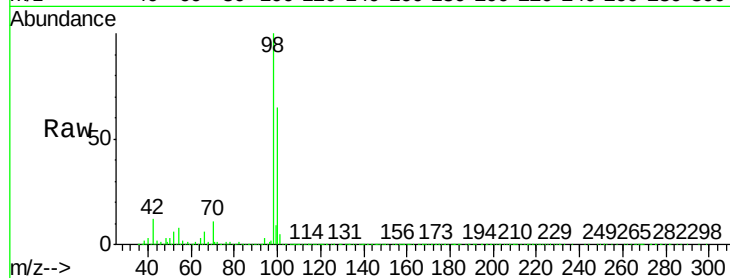
ClientSampleId :

Tot Ion: 98 Resp: 960340

Ion Ratio Lower Upper

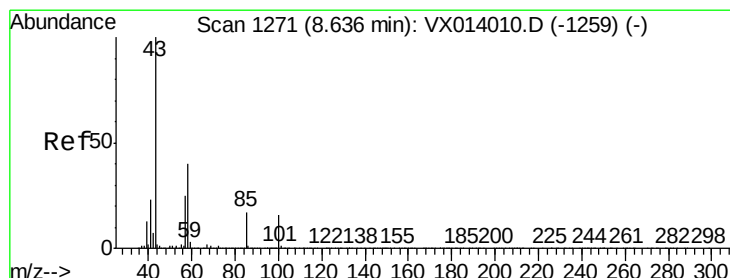
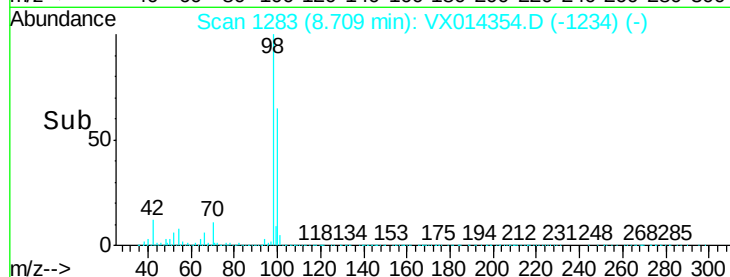
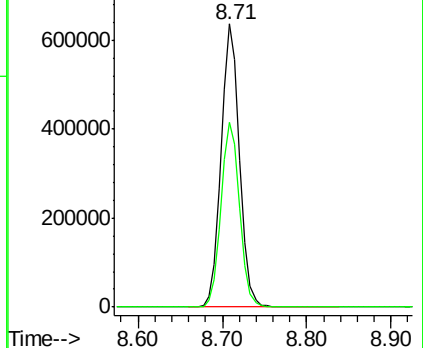
98 100

100 66.0 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#51

4-Methyl-2-Pentanone

Concen: 0.246 ug/l

RT: 8.64 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VX014354.D

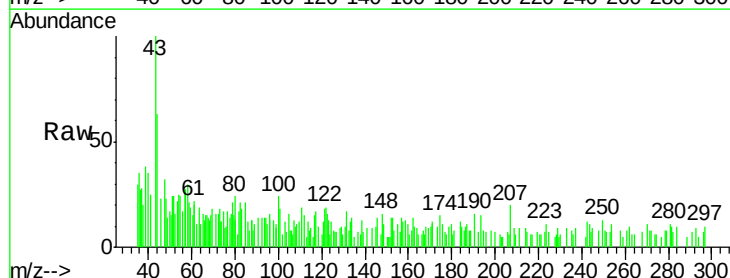
Acq: 30 Dec 2019 15:23

Tgt Ion: 43 Resp: 2099

Ion Ratio Lower Upper

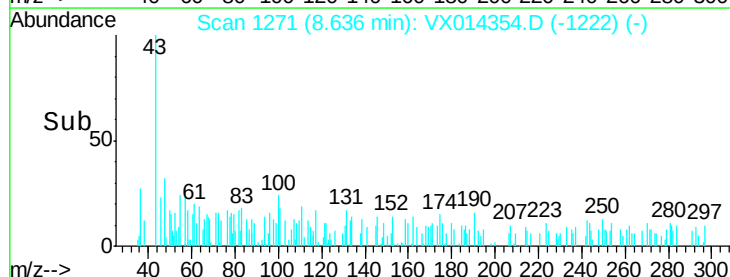
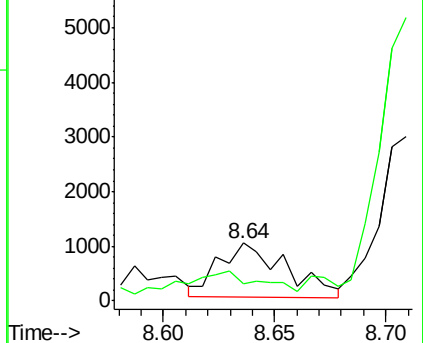
43 100

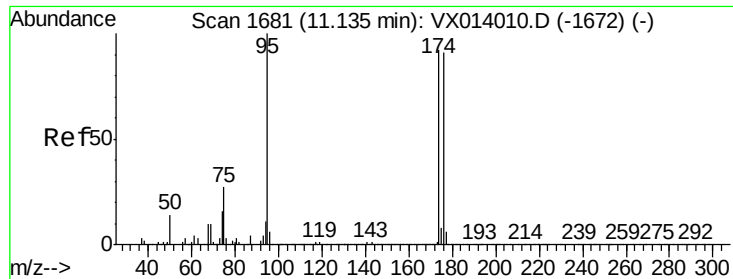
58 45.7 32.2 48.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

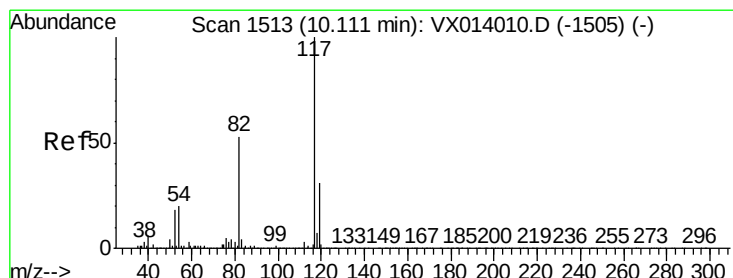
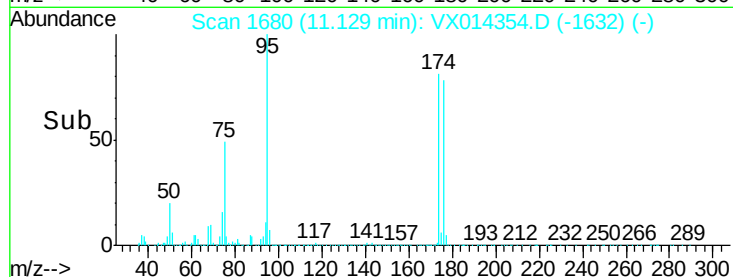
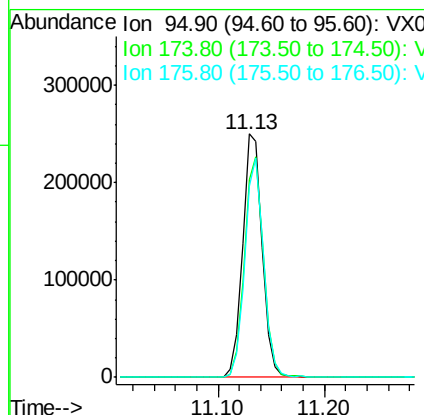
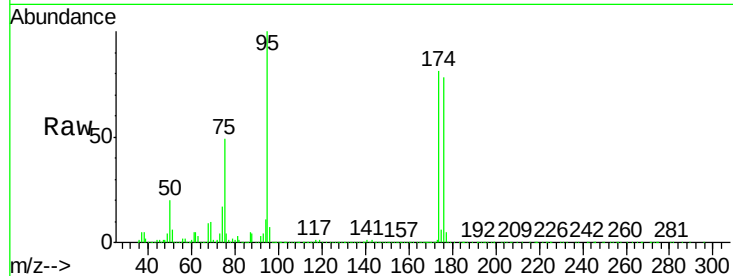




#62
4-Bromofluorobenzene
Concen: 45.955 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX014354.D
Acq: 30 Dec 2019 15:23

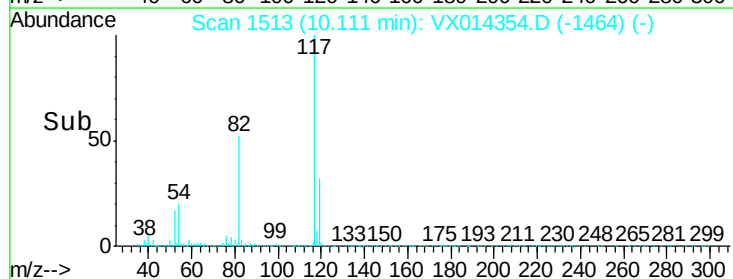
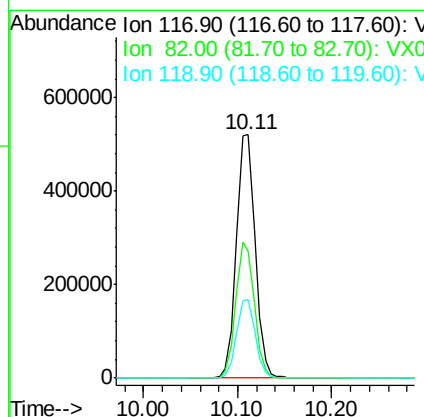
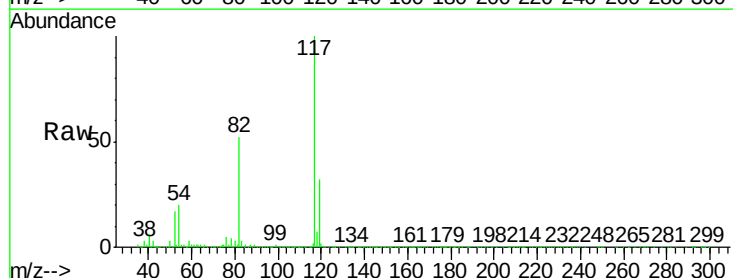
Instrument :
MSVOA_X
ClientSampleId :

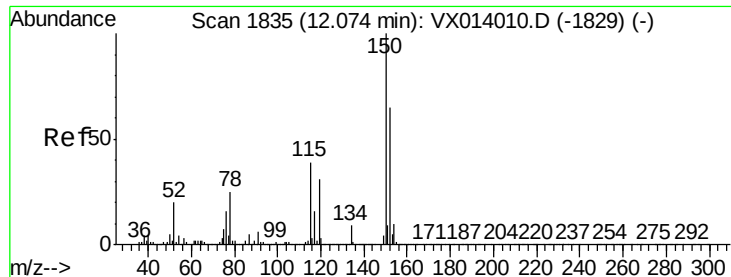
Tot Ion	Ratio	Lower	Upper
95	100		
174	88.8	0.0	175.8
176	86.4	0.0	173.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014354.D
Acq: 30 Dec 2019 15:23

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.4	42.2	63.4
119	32.3	25.1	37.7



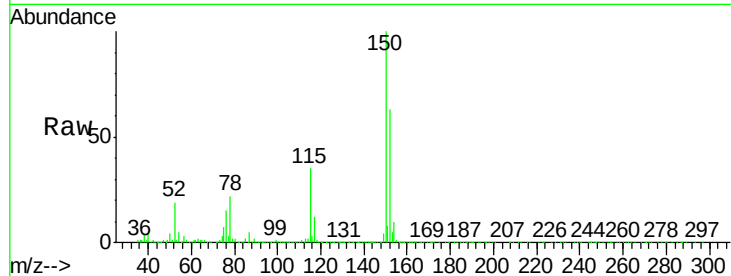


#72

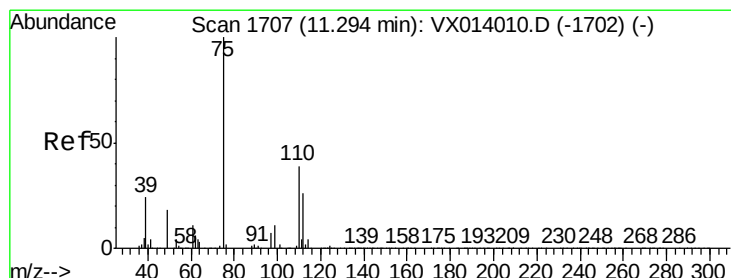
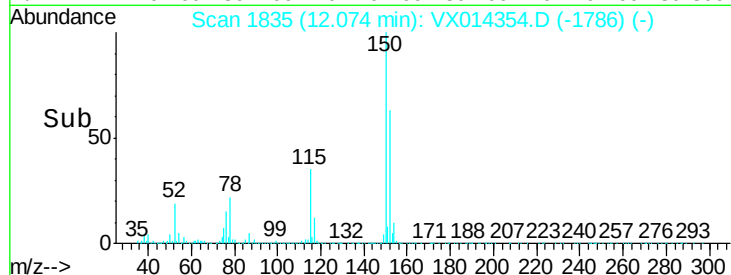
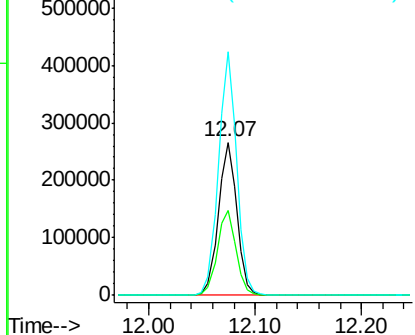
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014354.D
Acq: 30 Dec 2019 15:23

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.9	38.3	114.9
150	157.4	0.0	345.4



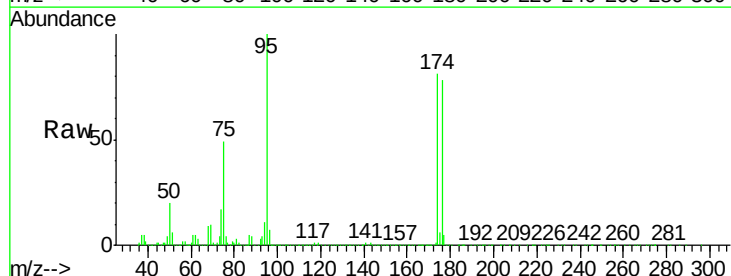
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



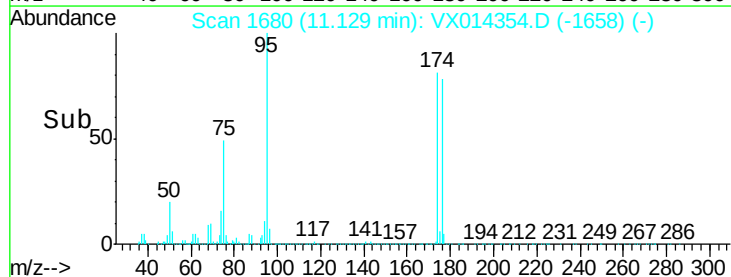
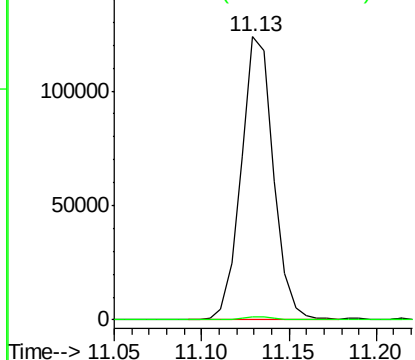
#76

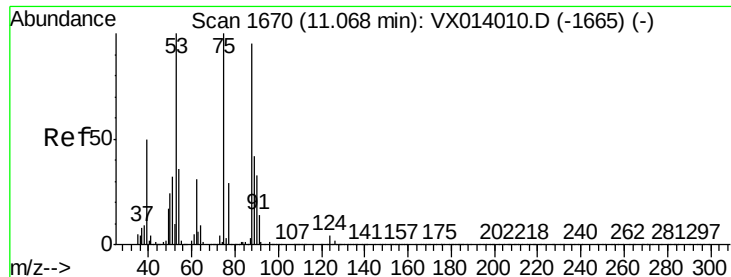
1,2,3-Trichloropropane
Concen: 22.709 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX014354.D
Acq: 30 Dec 2019 15:23

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.3	19.3	57.8#



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: 64.096 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014354.D

Acq: 30 Dec 2019 15:23

Instrument :

MSVOA_X

ClientSampleId :

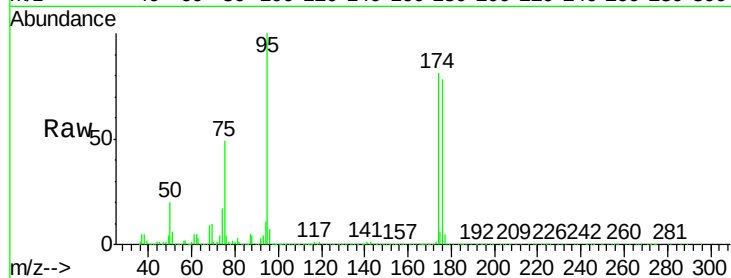
Tot Ion: 75 Resp: 157286

Ion Ratio Lower Upper

75 100

53 0.1 76.7 115.1#

89 0.1 34.6 51.8#



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

