

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112219\
 Data File : VX013556.D
 Acq On : 23 Nov 2019 00:53
 Operator : JC/SP
 Sample : K5962-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 22BR-20191120

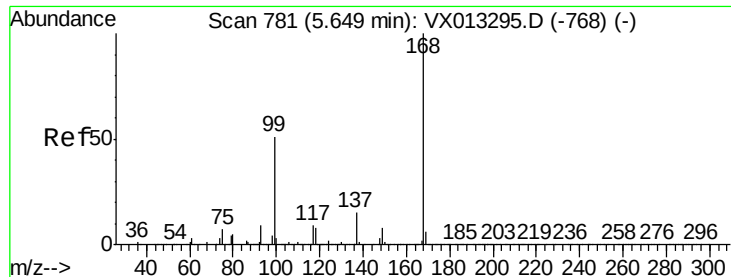
Quant Time: Nov 23 02:34:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X103119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 02 07:06:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	645007	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1051734	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	934116	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	416955	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	388171	50.80	ug/l	0.00
Spiked Amount			Recovery	=	101.60%	
35) Dibromofluoromethane	5.49	113	320037	48.52	ug/l	0.00
Spiked Amount			Recovery	=	97.04%	
50) Toluene-d8	8.71	98	1255796	50.50	ug/l	0.00
Spiked Amount			Recovery	=	101.00%	
62) 4-Bromofluorobenzene	11.14	95	415668	46.31	ug/l	0.00
Spiked Amount			Recovery	=	92.62%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	2611	0.351	ug/l	98
5) Bromomethane	1.65	94	1935	0.303	ug/l #	57
6) Chloroethane	1.72	64	260	Below Cal	#	66
9) 1,1,2-Trichlorotrifluoroet	2.38	101	2363	0.391	ug/l #	84
11) Tert butyl alcohol	3.05	59	405	0.201	ug/l #	73
12) 1,1-Dichloroethene	2.37	96	2594	0.438	ug/l #	76
13) Acrolein	2.30	56	815	0.747	ug/l #	36
15) Acrylonitrile	3.14	53	915	0.243	ug/l #	69
16) Acetone	2.43	43	10554	2.769	ug/l	91
21) trans-1,2-Dichloroethene	3.16	96	2775	0.431	ug/l	90
25) 2-Butanone	4.67	43	1608	0.288	ug/l	99
27) cis-1,2-Dichloroethene	4.59	96	102446	14.196	ug/l	90
28) Bromochloromethane	4.97	49	720	0.218	ug/l #	97
36) 1,1-Dichloropropene	5.65	75	43077	4.774	ug/l #	50
38) Carbon Tetrachloride	5.65	117	56051	6.353	ug/l #	18
44) Trichloroethene	7.21	130	66018	8.533	ug/l	99
49) 1,4-Dioxane	7.74	88	625	3.149	ug/l #	1
56) Ethyl methacrylate	9.15	69	293	1.586	ug/l #	1
64) Tetrachloroethene	9.33	164	1587	0.237	ug/l	89
71) Bromoform	10.86	173	557	3.284	ug/l #	28
76) 1,2,3-Trichloropropane	11.14	75	203998	24.088	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	203998	62.002	ug/l #	9

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013556.D

Acq: 23 Nov 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

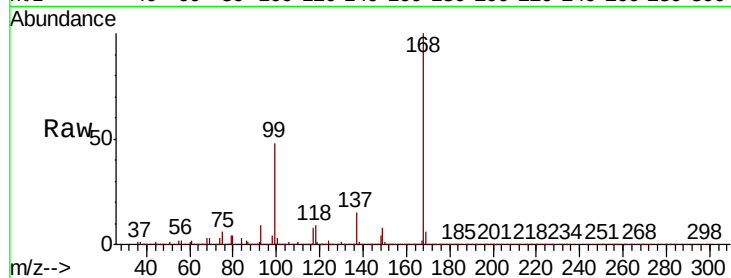
22BR-20191120

Tot Ion:168 Resp: 645007

Ion Ratio Lower Upper

168 100

99 48.4 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

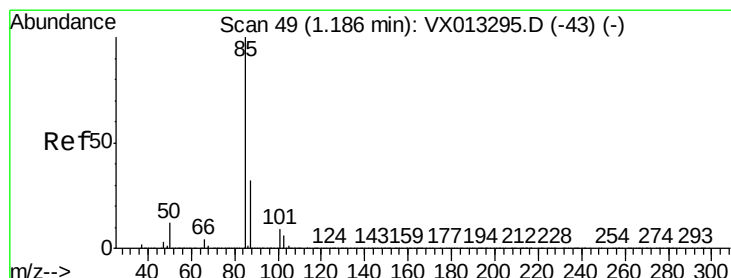
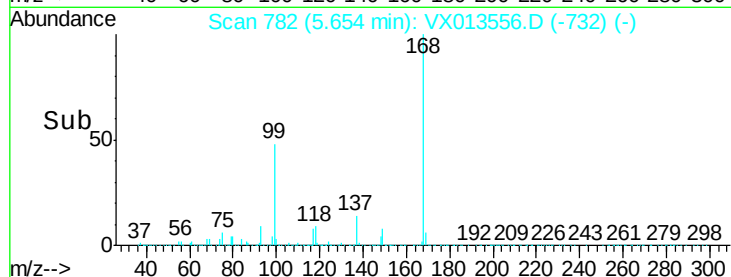
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.351 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.01 min

Lab File: VX013556.D

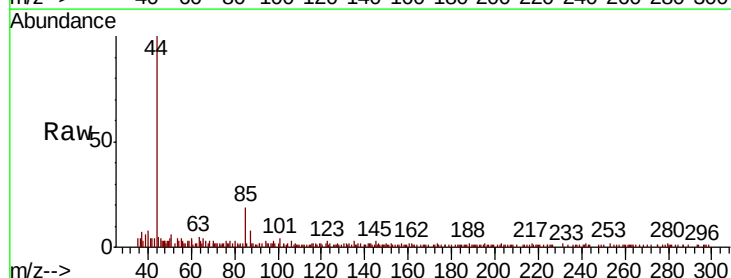
Acq: 23 Nov 2019 00:53

Tgt Ion: 85 Resp: 2611

Ion Ratio Lower Upper

85 100

87 30.6 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

2000

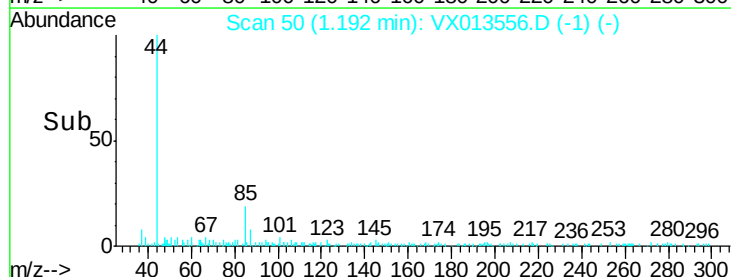
1500

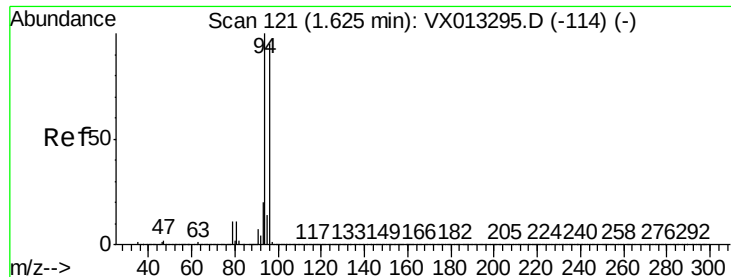
1000

500

0

Time-->





#5

Bromomethane

Concen: 0.303 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX013556.D

Acq: 23 Nov 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

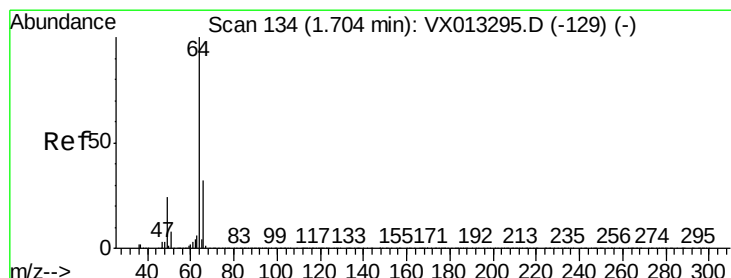
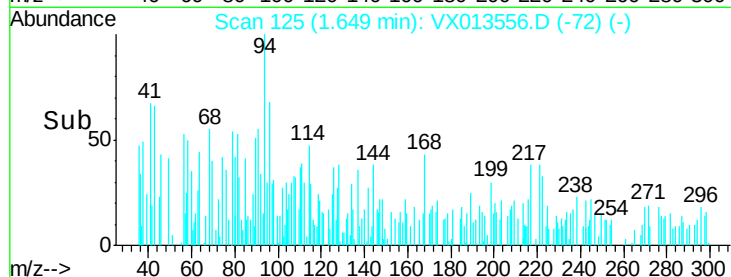
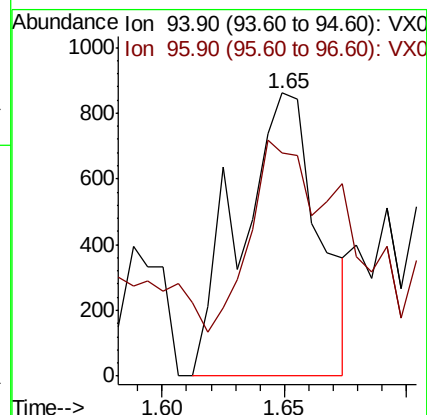
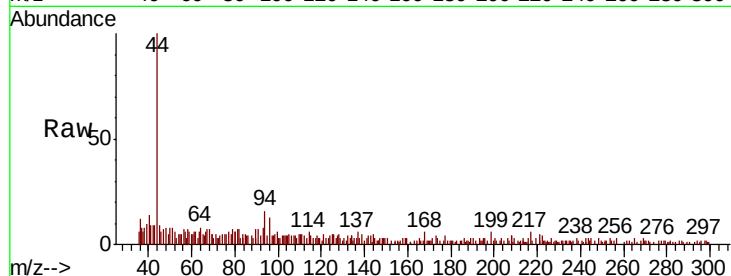
22BR-20191120

Tot Ion: 94 Resp: 1935

Ion Ratio Lower Upper

94 100

96 52.6 75.8 113.8#



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 136

Delta R.T. 0.01 min

Lab File: VX013556.D

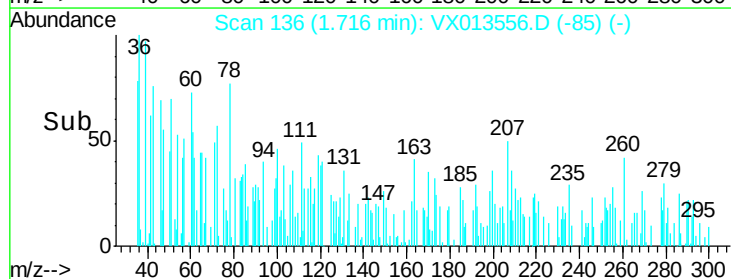
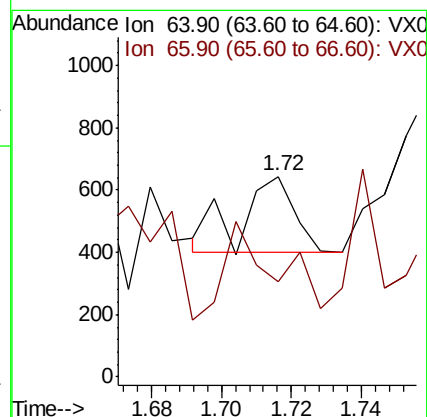
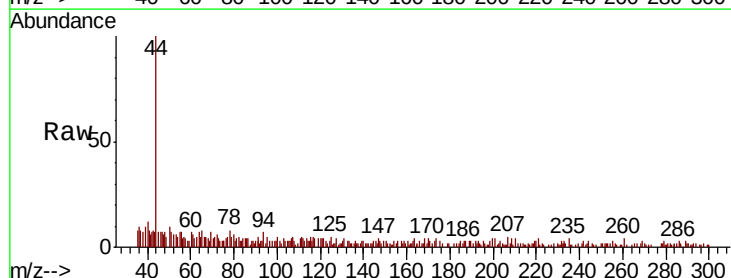
Acq: 23 Nov 2019 00:53

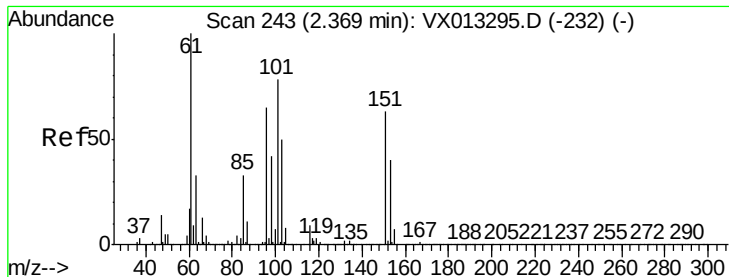
Tgt Ion: 64 Resp: 260

Ion Ratio Lower Upper

64 100

66 50.8 25.6 38.4#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.391 ug/l

RT: 2.38 min Scan# 245

Delta R.T. 0.01 min

Lab File: VX013556.D

Acq: 23 Nov 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

22BR-20191120

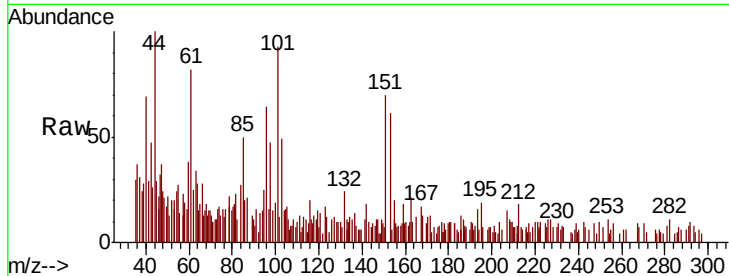
Tot Ion:101 Resp: 2363

Ion Ratio Lower Upper

101 100

85 68.8 34.4 51.6#

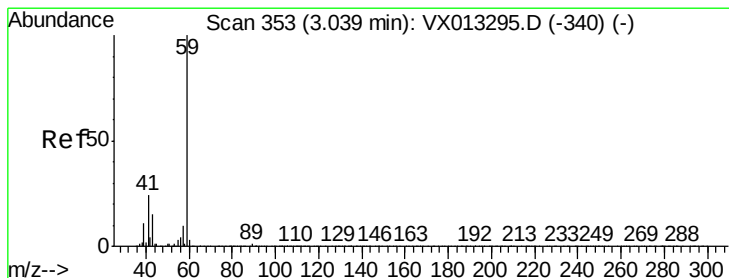
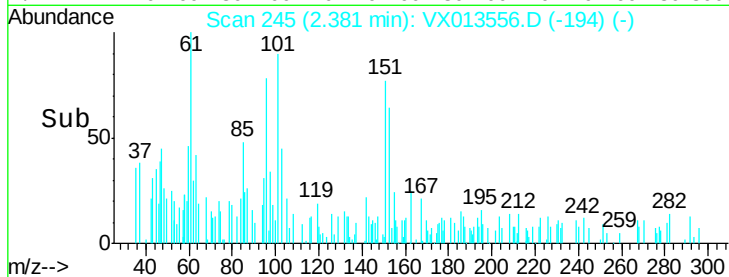
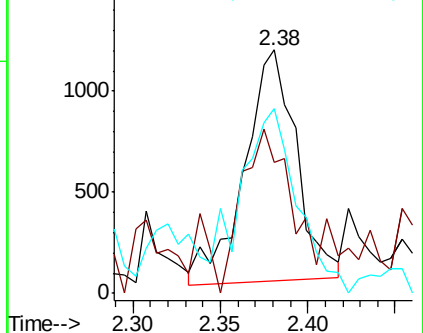
151 86.8 66.4 99.6



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: 0.201 ug/l

RT: 3.05 min Scan# 354

Delta R.T. 0.01 min

Lab File: VX013556.D

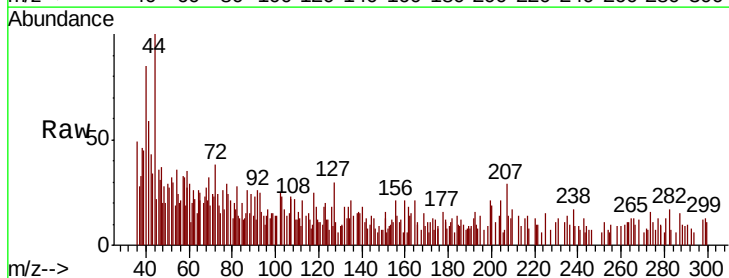
Acq: 23 Nov 2019 00:53

Tgt Ion: 59 Resp: 405

Ion Ratio Lower Upper

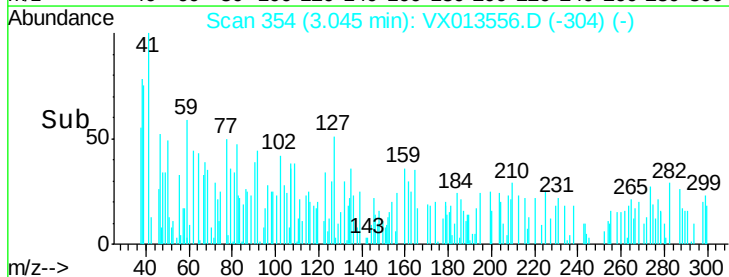
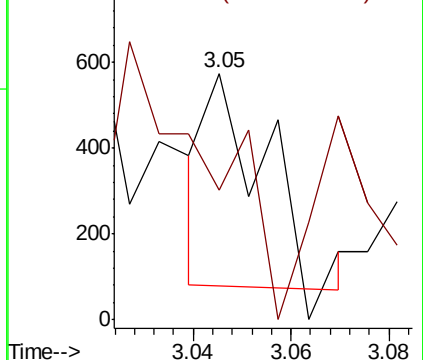
59 100

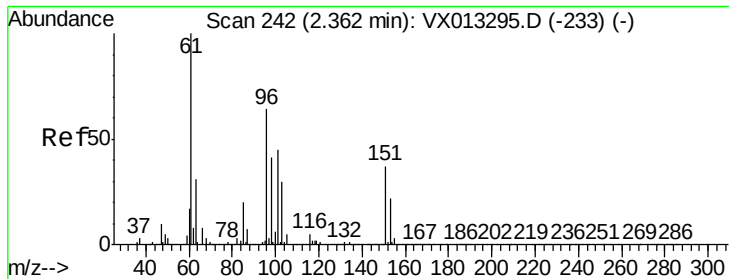
57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.438 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.01 min

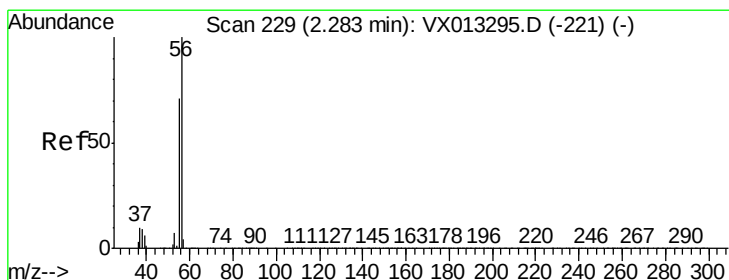
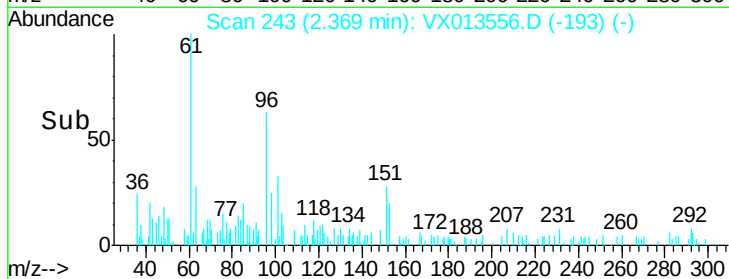
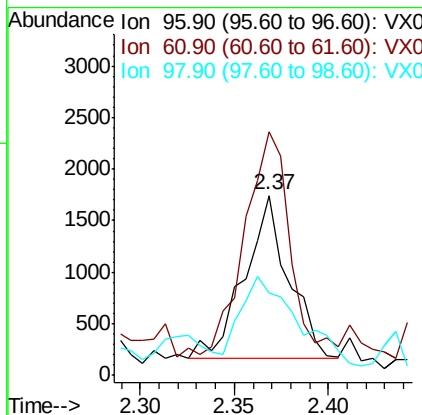
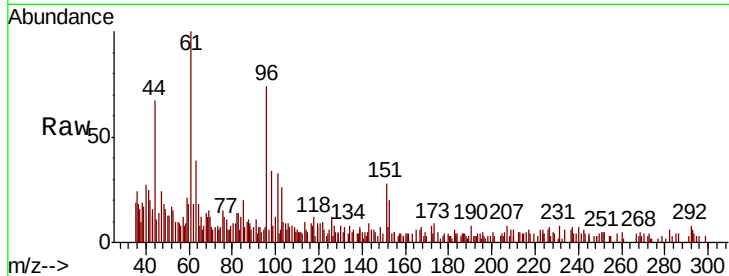
Lab File: VX013556.D

Acq: 23 Nov 2019 00:53

Instrument :
MSVOA_X
ClientSampleId :
22BR-20191120

Tot Ion: 96 Resp: 2594

Ion	Ratio	Lower	Upper
96	100		
61	131.8	125.0	187.6
98	35.2	50.7	76.1#



#13

Acrolein

Concen: 0.747 ug/l

RT: 2.30 min Scan# 231

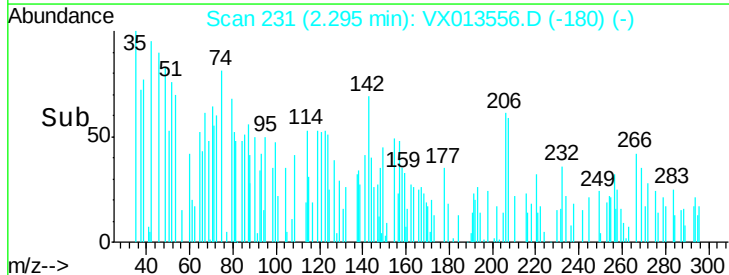
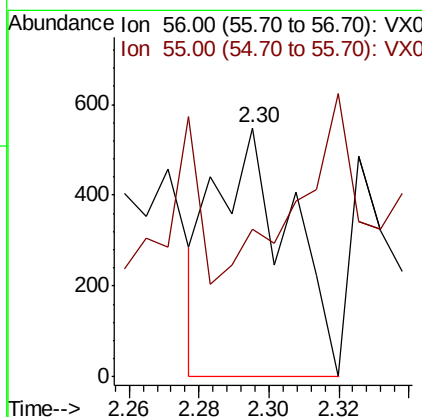
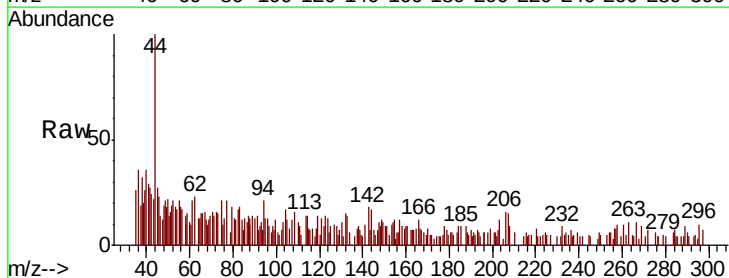
Delta R.T. 0.01 min

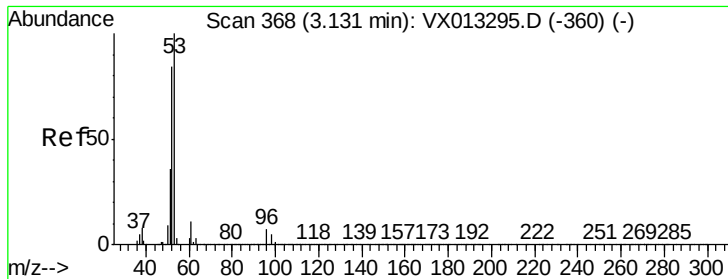
Lab File: VX013556.D

Acq: 23 Nov 2019 00:53

Tgt Ion: 56 Resp: 815

Ion	Ratio	Lower	Upper
56	100		
55	18.8	57.4	86.0#





#15

Acrylonitrile

Concen: 0.243 ug/l

RT: 3.14 min Scan# 370

Delta R.T. 0.01 min

Lab File: VX013556.D

Acq: 23 Nov 2019 00:53

Instrument :

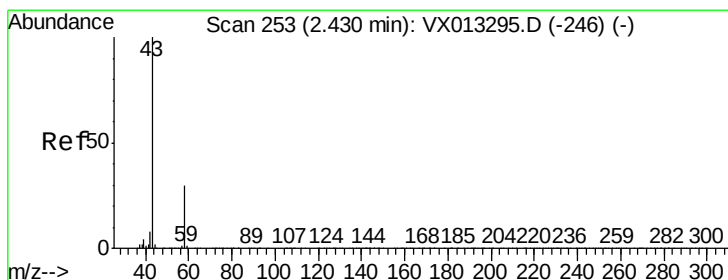
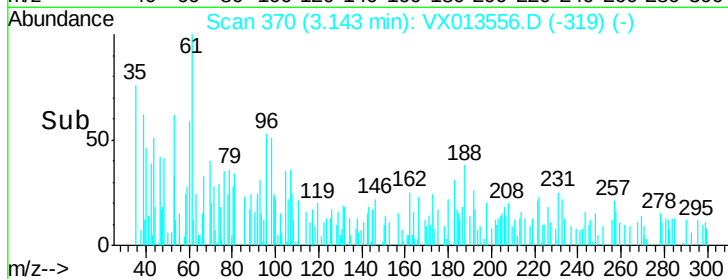
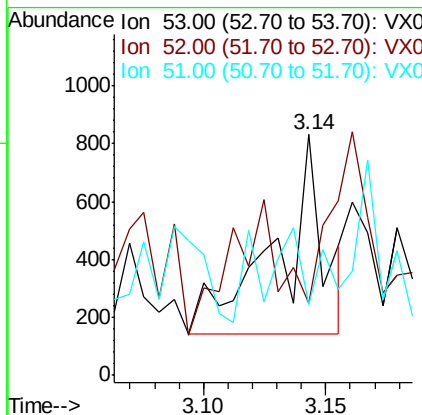
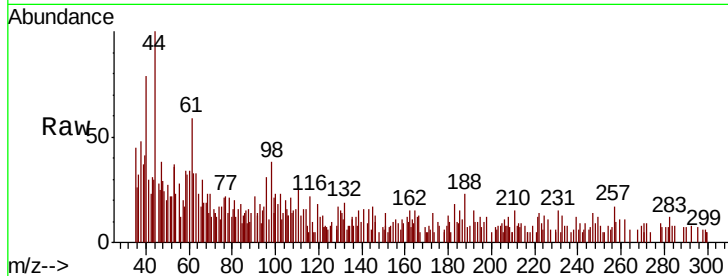
MSVOA_X

ClientSampled :

22BR-20191120

Tot Ion: 53 Resp: 915

Ion	Ratio	Lower	Upper
53	100		
52	46.4	67.4	101.0#
51	40.2	29.4	44.2



#16

Acetone

Concen: 2.769 ug/l

RT: 2.43 min Scan# 253

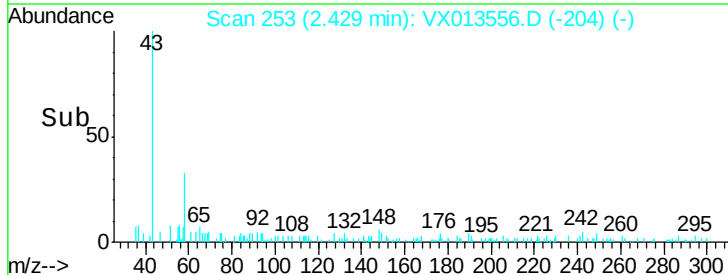
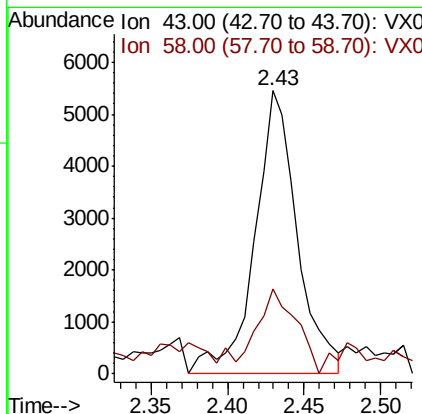
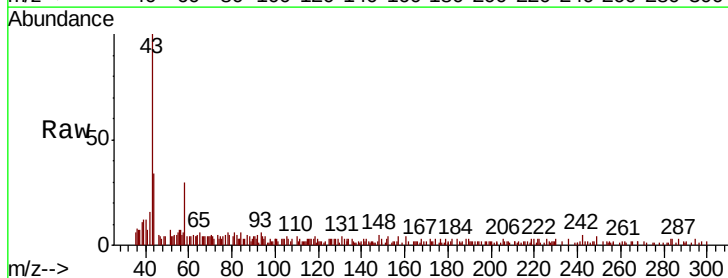
Delta R.T. -0.00 min

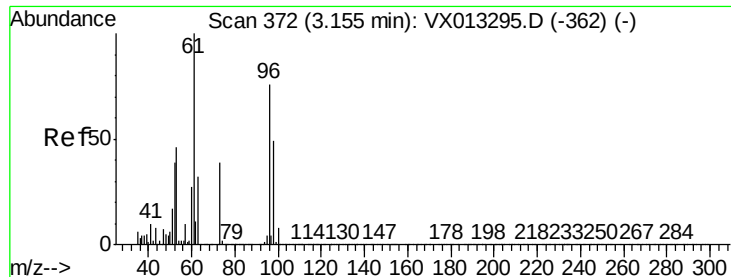
Lab File: VX013556.D

Acq: 23 Nov 2019 00:53

Tgt Ion: 43 Resp: 10554

Ion	Ratio	Lower	Upper
43	100		
58	25.4	24.3	36.5





#21

trans-1,2-Dichloroethene

Concen: 0.431 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX013556.D

Acq: 23 Nov 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

22BR-20191120

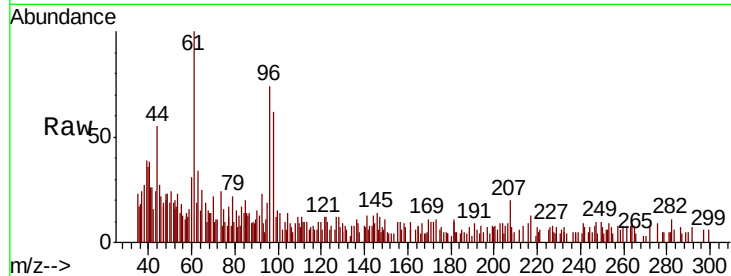
Tot Ion: 96 Resp: 2775

Ion Ratio Lower Upper

96 100

61 115.1 105.8 158.6

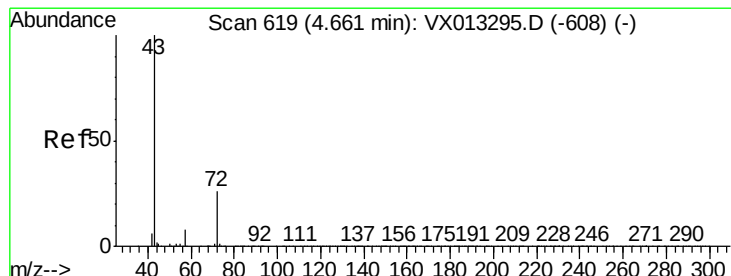
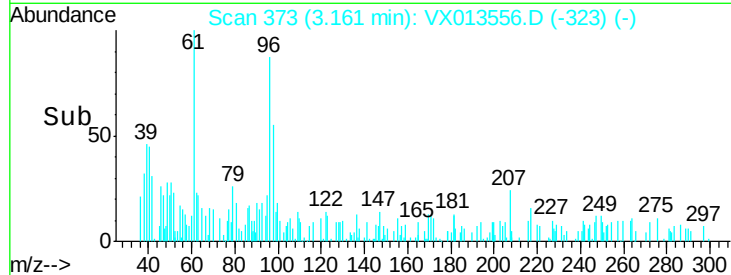
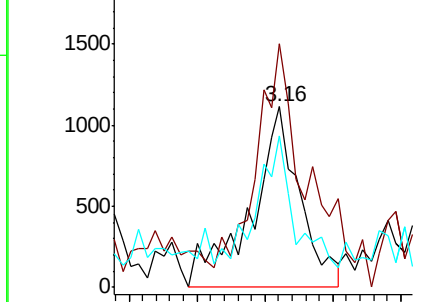
98 63.5 51.8 77.6



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



#25

2-Butanone

Concen: 0.288 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.01 min

Lab File: VX013556.D

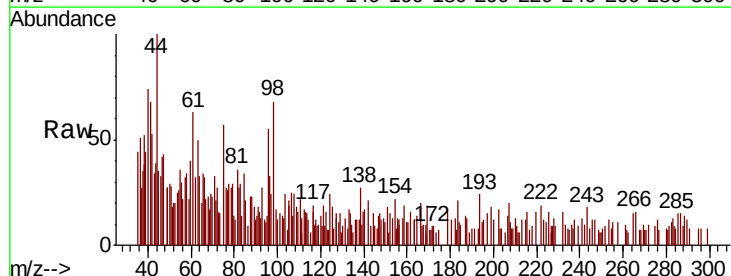
Acq: 23 Nov 2019 00:53

Tgt Ion: 43 Resp: 1608

Ion Ratio Lower Upper

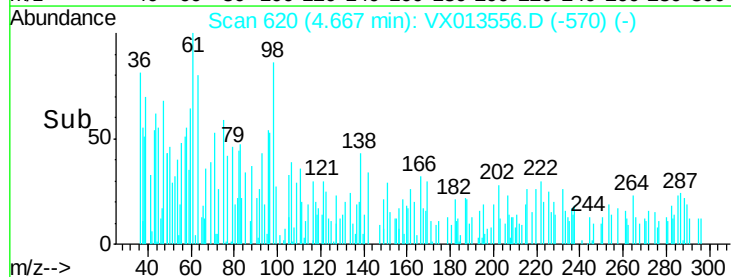
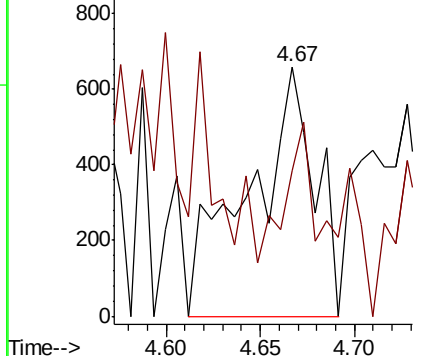
43 100

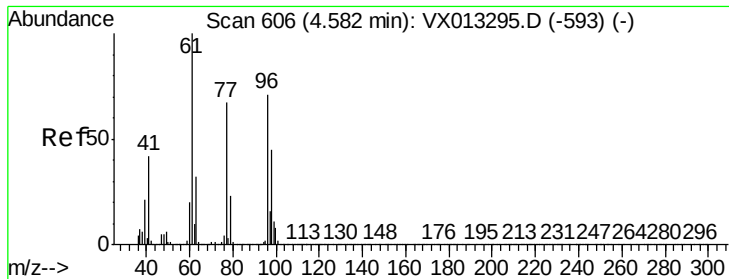
72 27.0 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



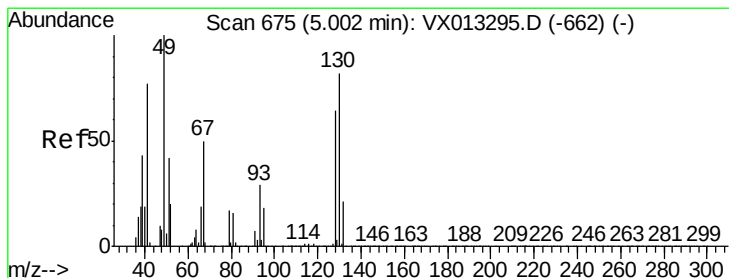
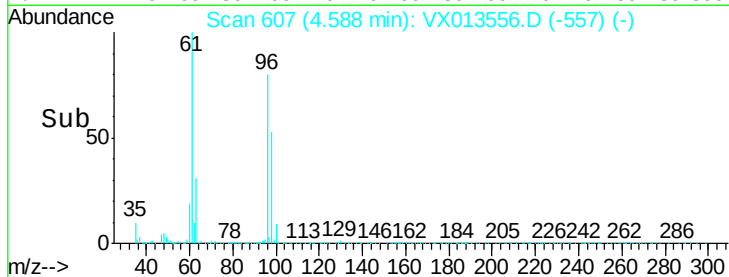
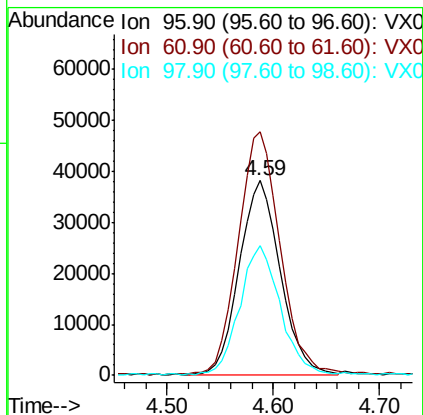
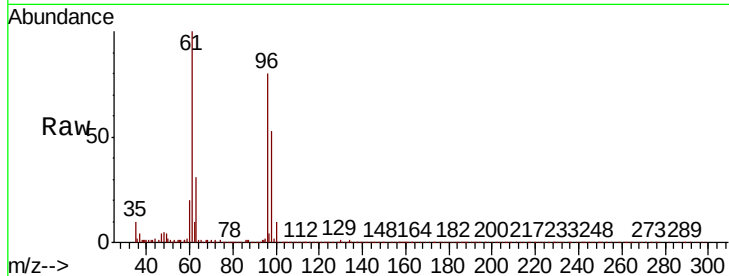


#27

cis-1,2-Dichloroethene
 Concen: 14.196 ug/l
 RT: 4.59 min Scan# 607
 Delta R.T. 0.01 min
 Lab File: VX013556.D
 Acq: 23 Nov 2019 00:53

Instrument :
 MSVOA_X
 ClientSampleId :
 22BR-20191120

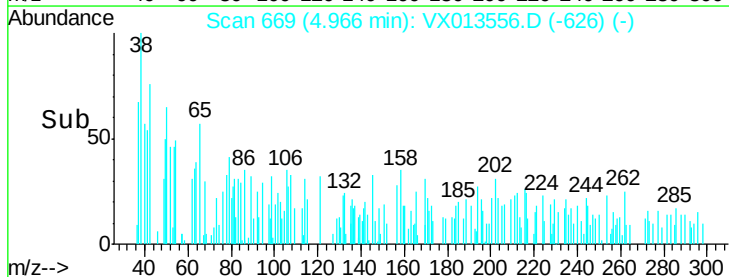
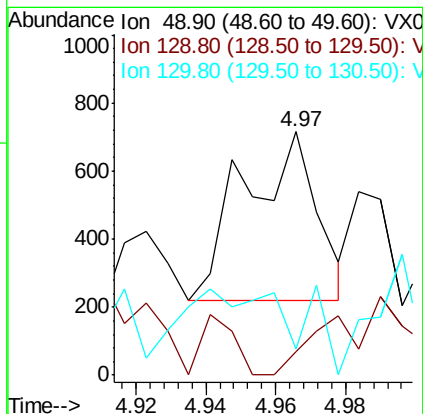
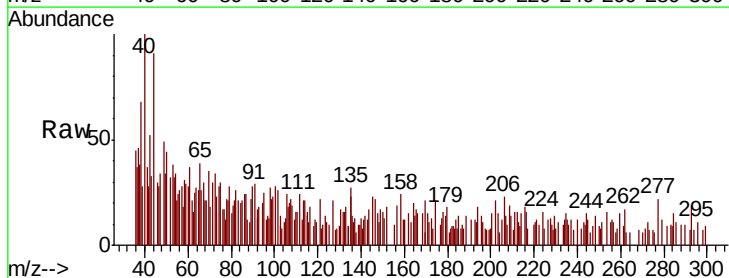
Tot Ion	Ratio	Lower	Upper
96	100		
61	127.6	0.0	288.0
98	66.8	0.0	129.6

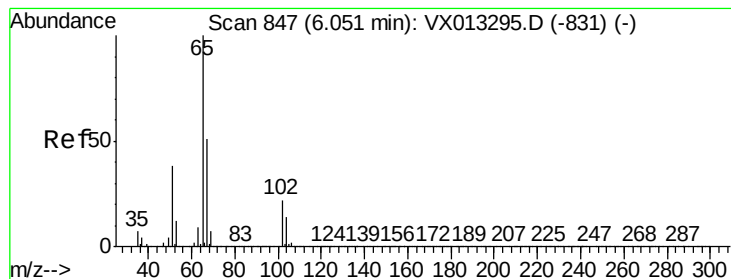


#28

Bromochloromethane
 Concen: 0.218 ug/l
 RT: 4.97 min Scan# 669
 Delta R.T. -0.04 min
 Lab File: VX013556.D
 Acq: 23 Nov 2019 00:53

Tgt Ion	Ratio	Lower	Upper
49	100		
129	23.1	0.0	5.2#
130	81.0	63.8	95.6





#33

1,2-Dichloroethane-d4

Concen: 50.798 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX013556.D

Acq: 23 Nov 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

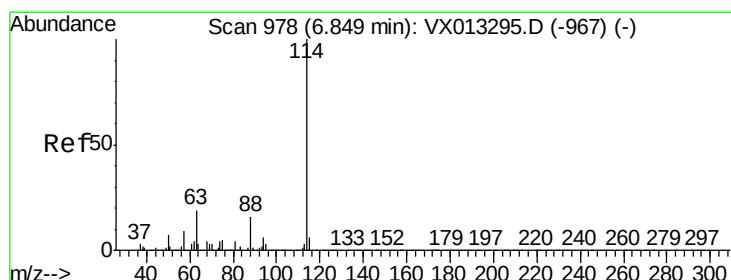
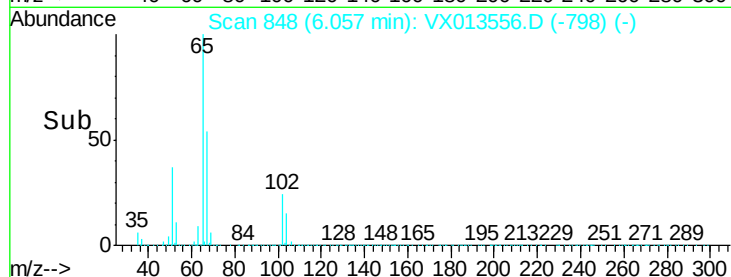
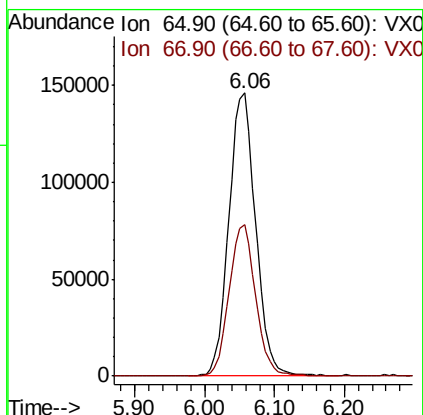
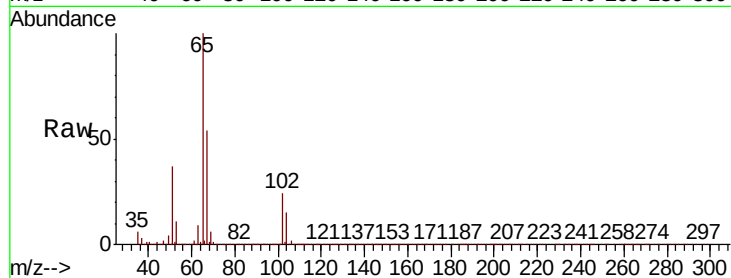
22BR-20191120

Tot Ion: 65 Resp: 388171

Ion Ratio Lower Upper

65 100

67 52.7 0.0 104.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013556.D

Acq: 23 Nov 2019 00:53

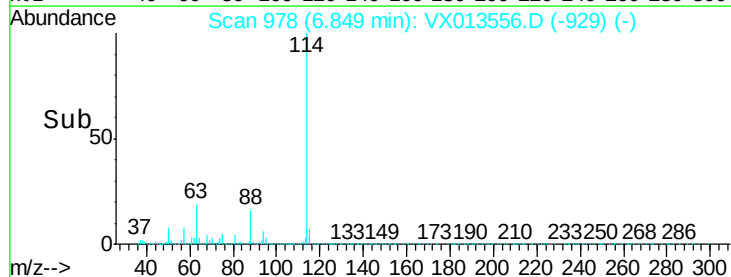
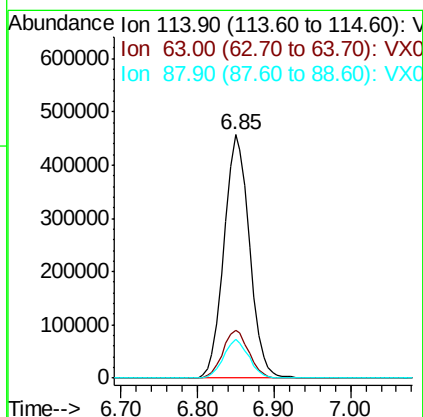
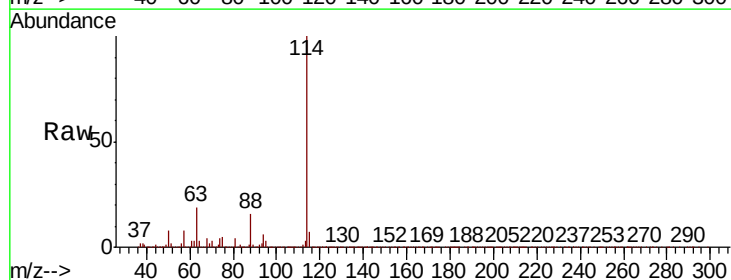
Tgt Ion: 114 Resp: 1051734

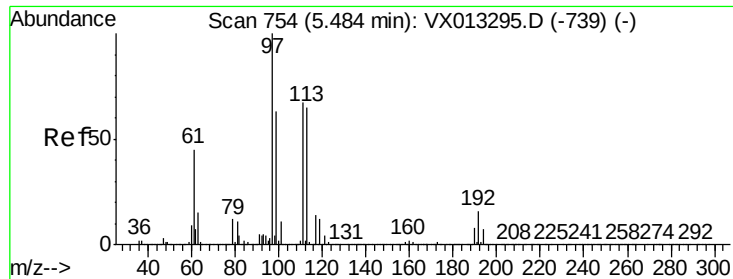
Ion Ratio Lower Upper

114 100

63 19.3 0.0 38.4

88 15.8 0.0 32.2

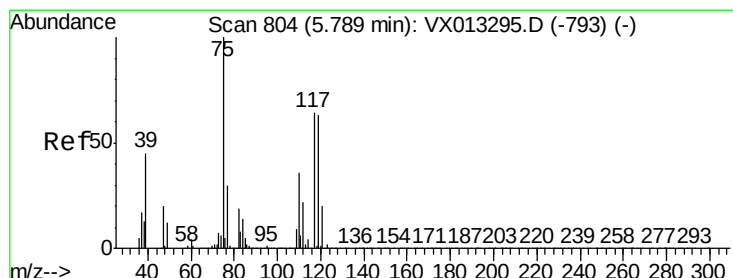
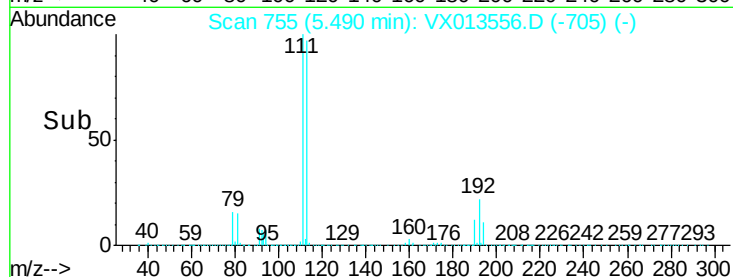
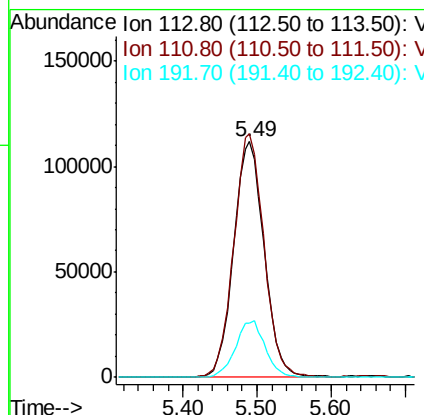
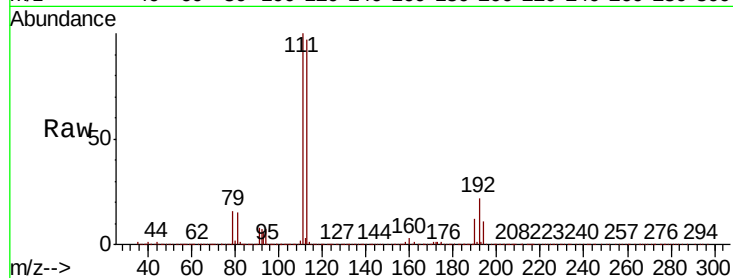




#35
Dibromofluoromethane
Concen: 48.515 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.01 min
Lab File: VX013556.D
Acq: 23 Nov 2019 00:53

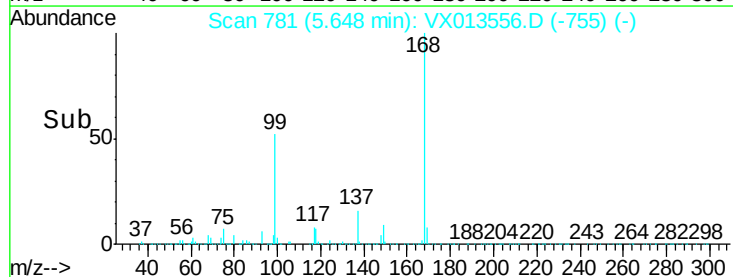
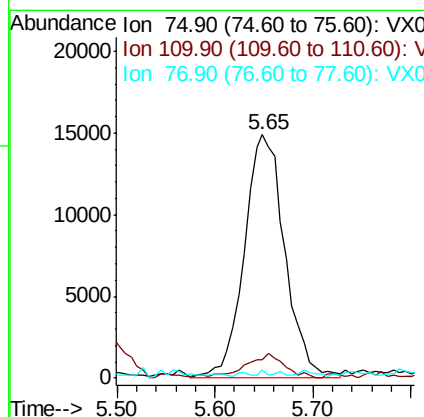
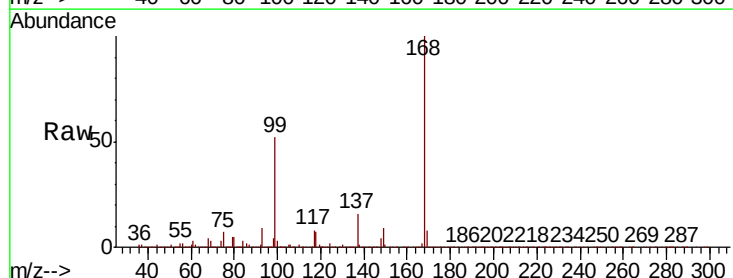
Instrument :
MSVOA_X
ClientSampleId :
22BR-20191120

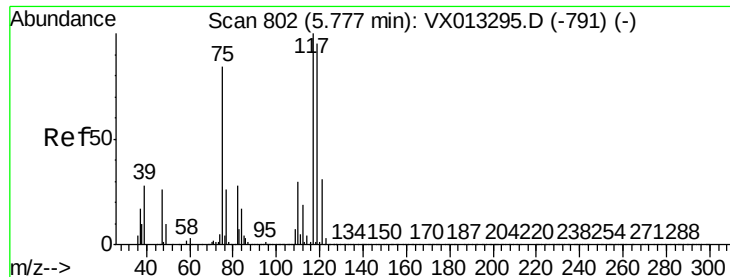
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.9	122.9
192	23.5	19.1	28.7



#36
1,1-Dichloropropene
Concen: 4.774 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.14 min
Lab File: VX013556.D
Acq: 23 Nov 2019 00:53

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.4	18.1	54.1#
77	0.4	25.0	37.4#

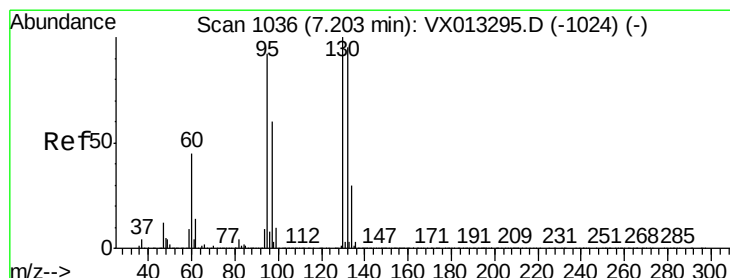
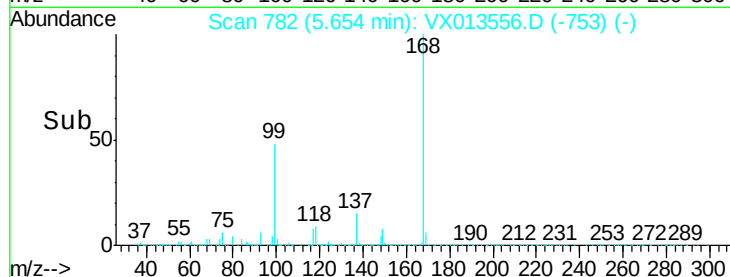
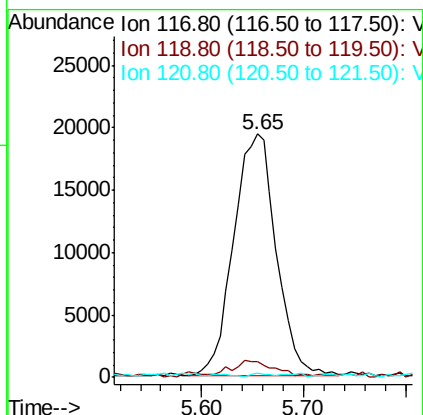
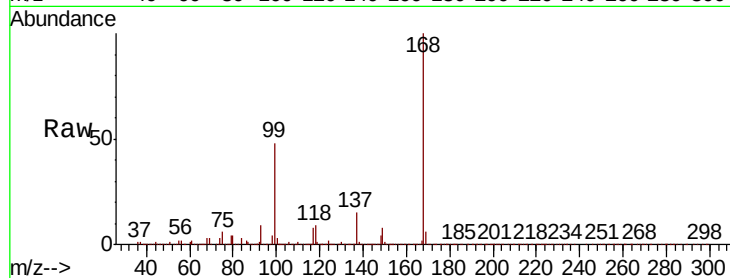




#38
Carbon Tetrachloride
Concen: 6.353 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX013556.D
Acq: 23 Nov 2019 00:53

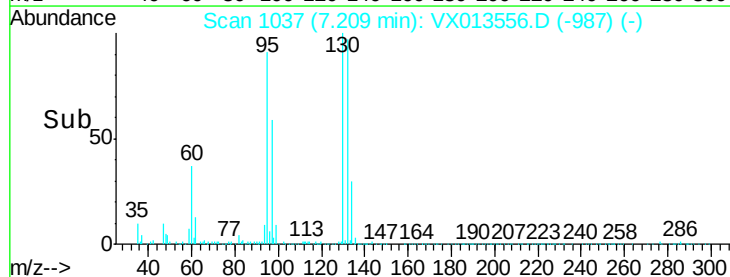
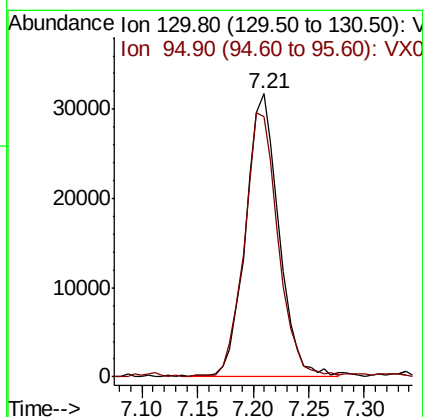
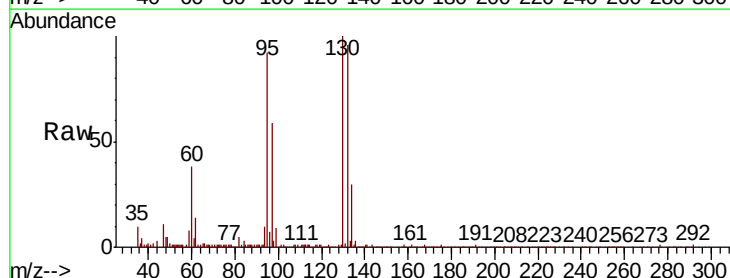
Instrument :
MSVOA_X
ClientSampleId :
22BR-20191120

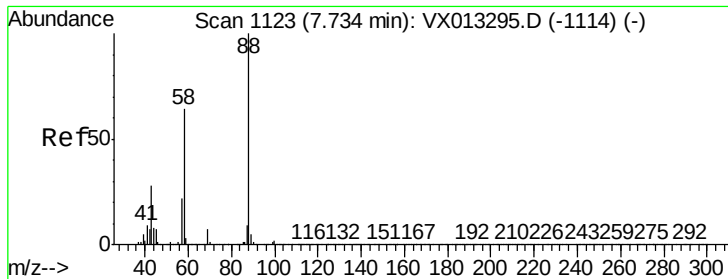
Tot Ion	Ratio	Lower	Upper
117	100		
119	6.2	76.1	114.1#
121	1.1	24.6	37.0#



#44
Trichloroethene
Concen: 8.533 ug/l
RT: 7.21 min Scan# 1037
Delta R.T. 0.01 min
Lab File: VX013556.D
Acq: 23 Nov 2019 00:53

Tgt Ion	Ratio	Lower	Upper
130	100		
95	91.7	0.0	184.8





#49

1,4-Dioxane

Concen: 3.149 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX013556.D

Acq: 23 Nov 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

22BR-20191120

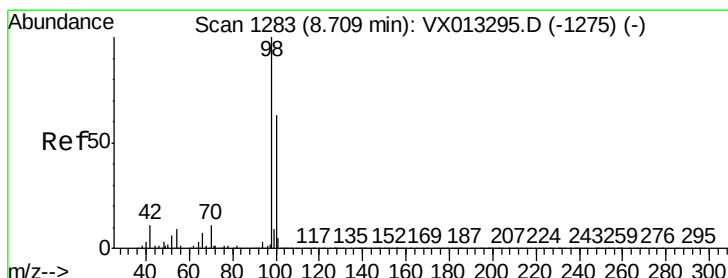
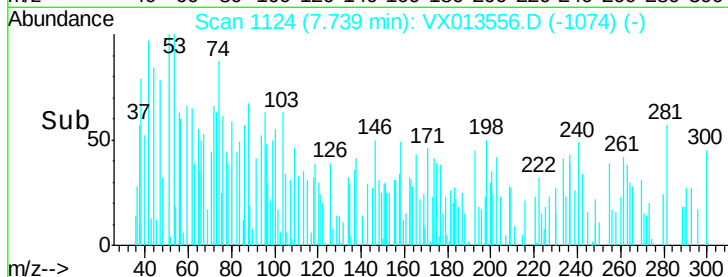
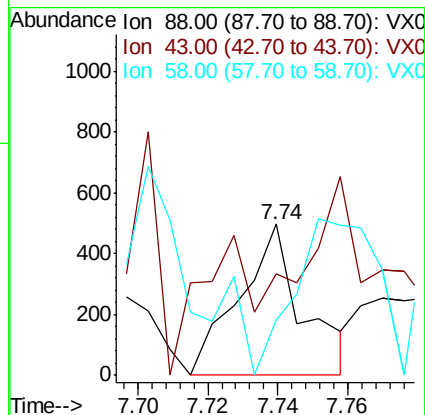
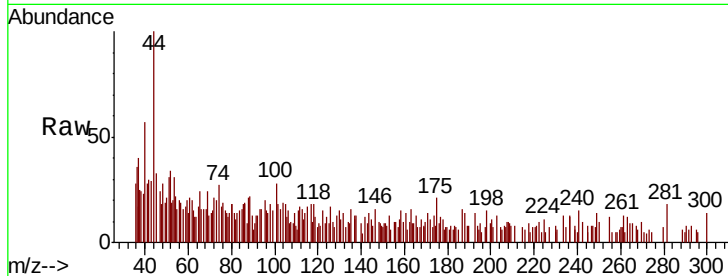
Tot Ion: 88 Resp: 625

Ion Ratio Lower Upper

88 100

43 157.0 26.6 39.8#

58 133.8 55.0 82.6#



#50

Toluene-d8

Concen: 50.497 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013556.D

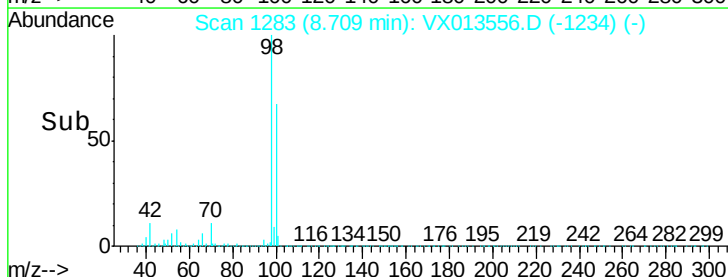
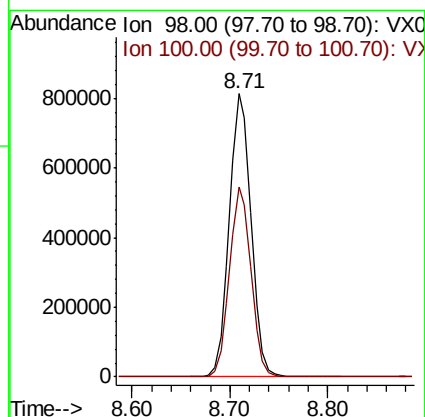
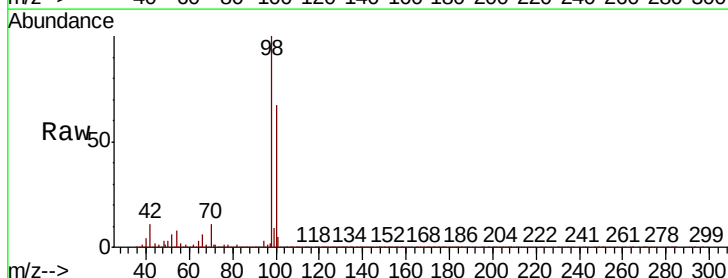
Acq: 23 Nov 2019 00:53

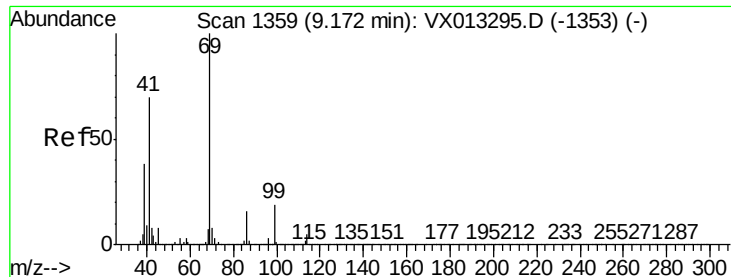
Tgt Ion: 98 Resp: 1255796

Ion Ratio Lower Upper

98 100

100 66.3 52.2 78.2





#56

Ethyl methacrylate

Concen: 1.586 ug/l

RT: 9.15 min Scan# 1355

Delta R.T. -0.02 min

Lab File: VX013556.D

Acq: 23 Nov 2019 00:53

Instrument :

MSVOA_X

ClientSampled :

22BR-20191120

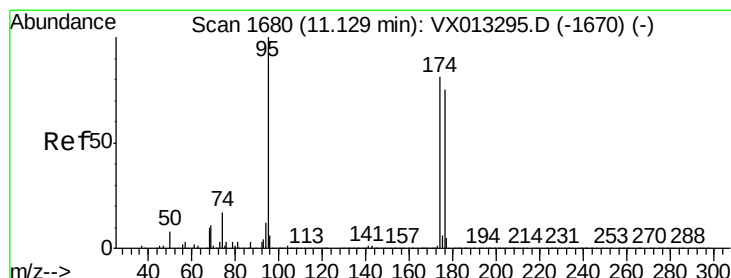
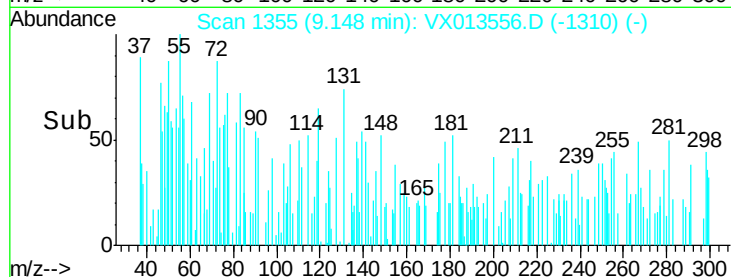
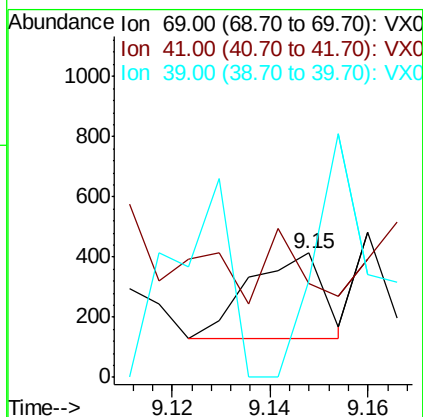
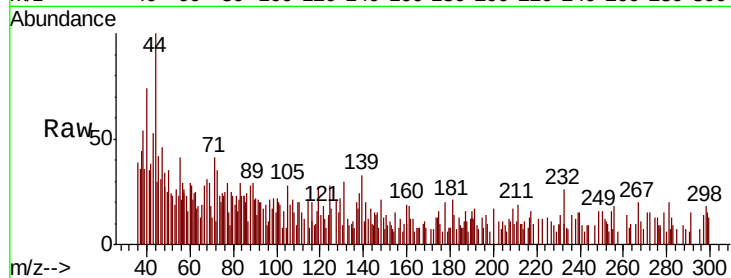
Tot Ion: 69 Resp: 293

Ion Ratio Lower Upper

69 100

41 42.3 56.2 84.2#

39 222.9 31.1 46.7#



#62

4-Bromofluorobenzene

Concen: 46.313 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX013556.D

Acq: 23 Nov 2019 00:53

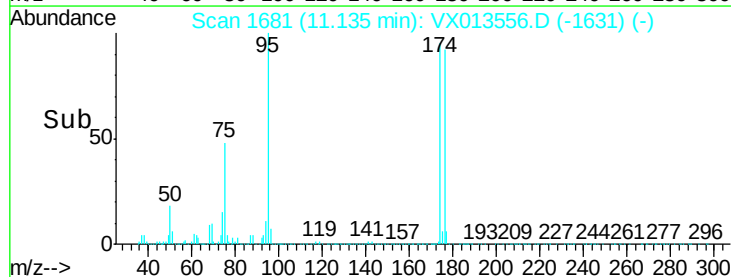
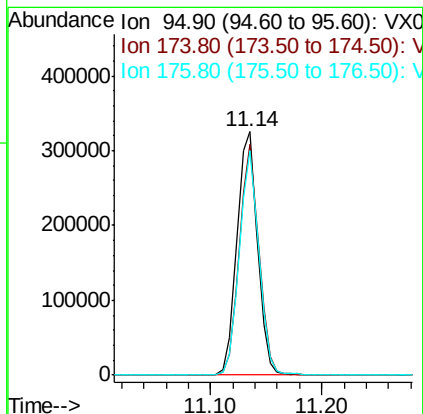
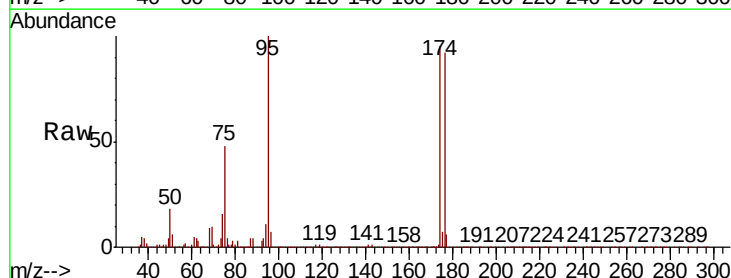
Tgt Ion: 95 Resp: 415668

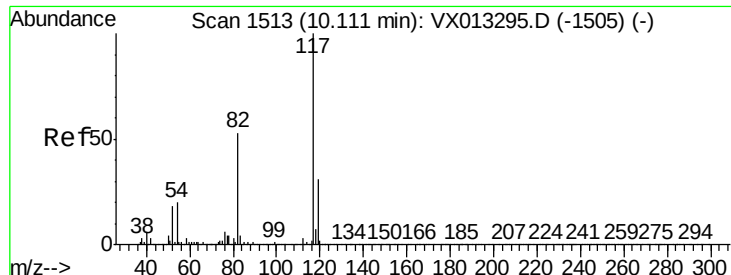
Ion Ratio Lower Upper

95 100

174 90.6 0.0 179.8

176 88.0 0.0 173.0

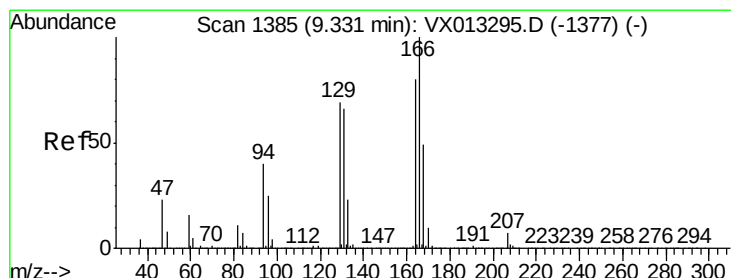
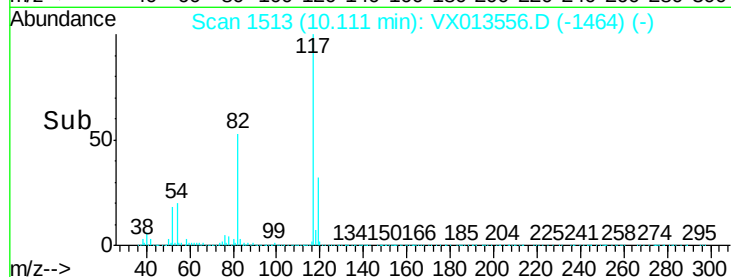
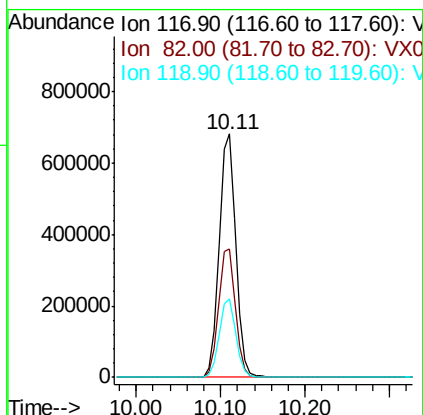
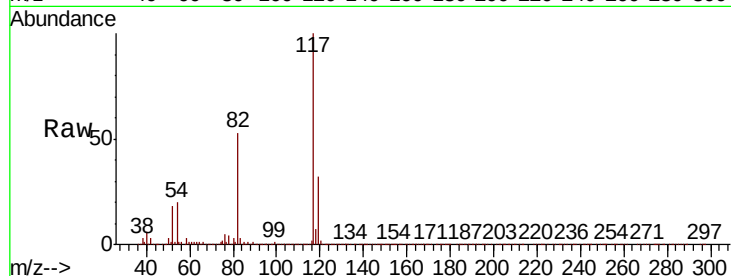




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013556.D
Acq: 23 Nov 2019 00:53

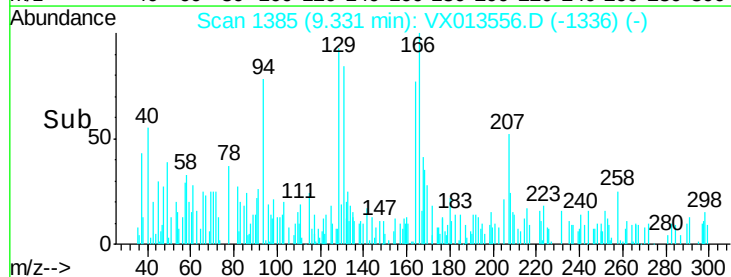
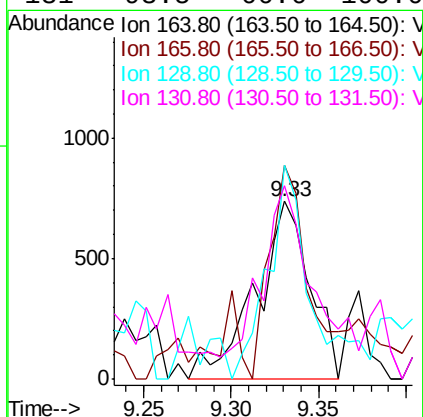
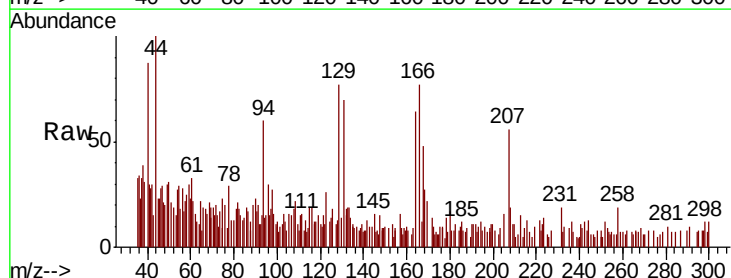
Instrument :
MSVOA_X
ClientSampleId :
22BR-20191120

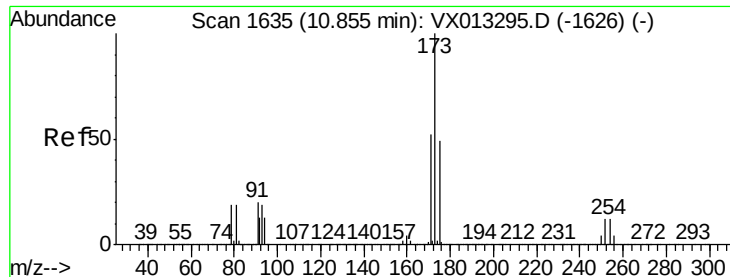
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.5	42.6	64.0
119	32.0	24.8	37.2



#64
Tetrachloroethene
Concen: 0.237 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX013556.D
Acq: 23 Nov 2019 00:53

Tgt Ion	Ratio	Lower	Upper
164	100		
166	111.0	100.4	150.6
129	95.5	69.4	104.2
131	93.5	66.6	100.0





#71

Bromoform

Concen: 3.284 ug/l

RT: 10.86 min Scan# 1636

Delta R.T. 0.01 min

Lab File: VX013556.D

Acq: 23 Nov 2019 00:53

Instrument :

MSVOA_X

ClientSampled :

22BR-20191120

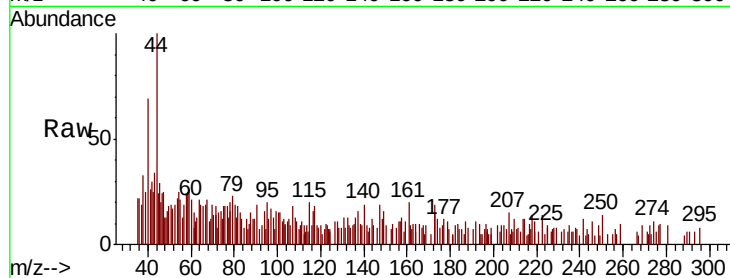
Tot Ion:173 Resp: 557

Ion Ratio Lower Upper

173 100

175 0.0 24.8 74.4#

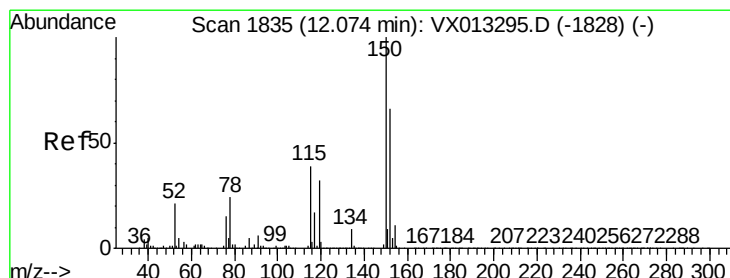
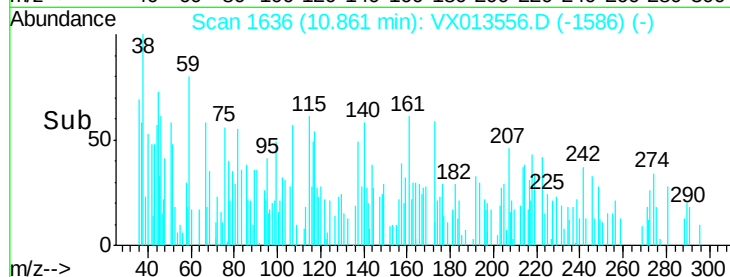
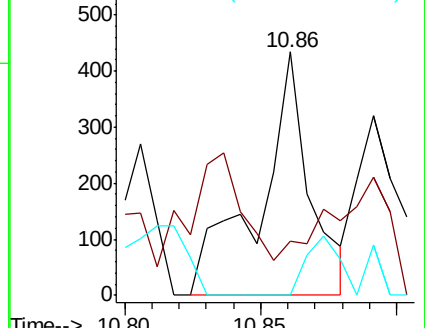
254 15.8 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013556.D

Acq: 23 Nov 2019 00:53

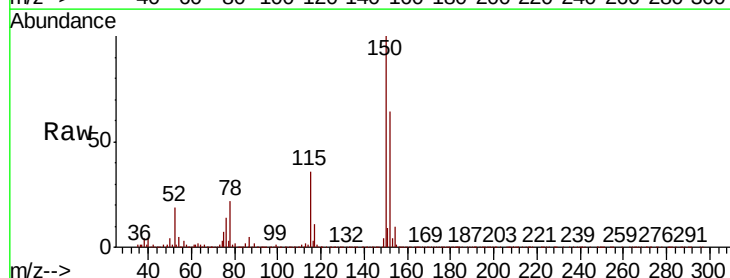
Tgt Ion:152 Resp: 416955

Ion Ratio Lower Upper

152 100

115 55.6 39.5 118.3

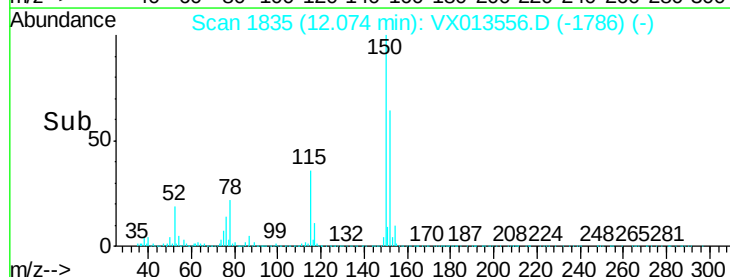
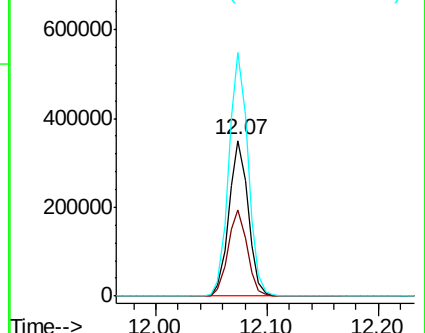
150 157.1 0.0 344.4

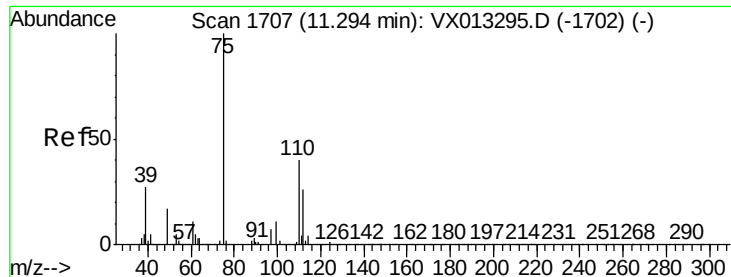


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.088 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013556.D

Acq: 23 Nov 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

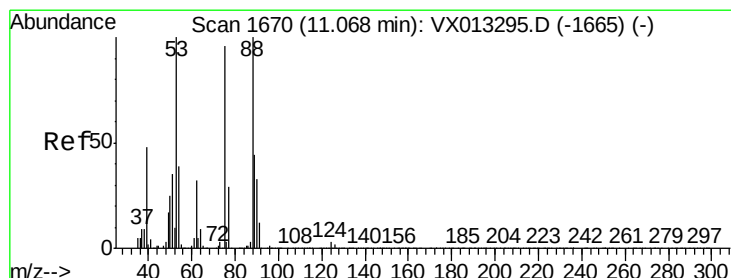
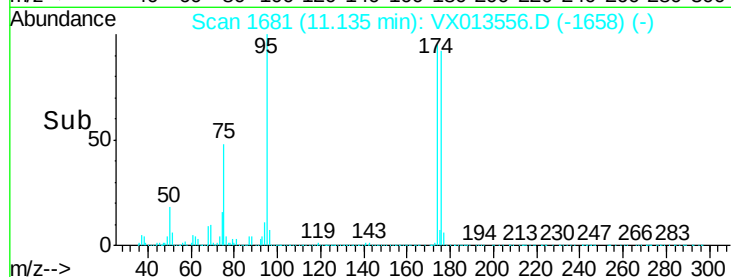
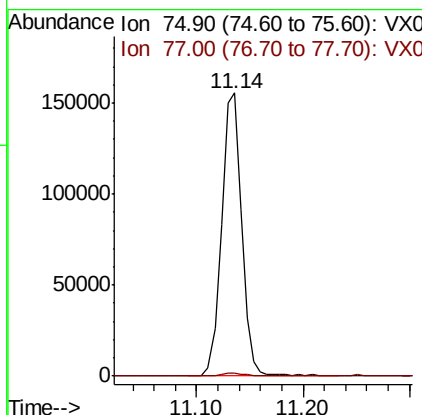
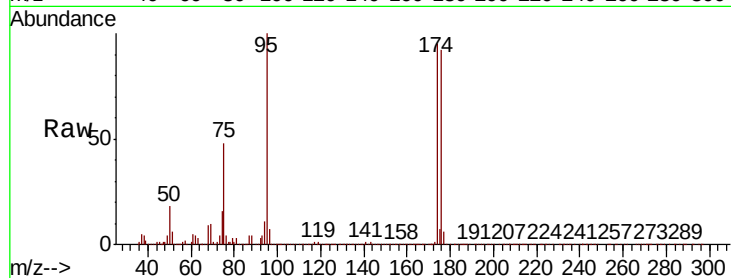
22BR-20191120

Tot Ion: 75 Resp: 203998

Ion Ratio Lower Upper

75 100

77 1.0 22.3 66.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 62.002 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013556.D

Acq: 23 Nov 2019 00:53

Tgt Ion: 75 Resp: 203998

Ion Ratio Lower Upper

75 100

53 0.2 81.0 121.6#

89 0.0 36.0 54.0#

