

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121819\
 Data File : VX014093.D
 Acq On : 18 Dec 2019 13:51
 Operator : JC/SP
 Sample : K6252-09DL 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D2-20191210DL

Quant Time: Dec 18 16:18:24 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	551634	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	847131	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	750941	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	323974	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	311183	49.77	ug/l	0.00
Spiked Amount			Recovery	=	99.54%	
35) Dibromofluoromethane	5.49	113	254505	49.42	ug/l	0.00
Spiked Amount			Recovery	=	98.84%	
50) Toluene-d8	8.71	98	1004033	50.08	ug/l	0.00
Spiked Amount			Recovery	=	100.16%	
62) 4-Bromofluorobenzene	11.14	95	330816	45.14	ug/l	0.00
Spiked Amount			Recovery	=	90.28%	

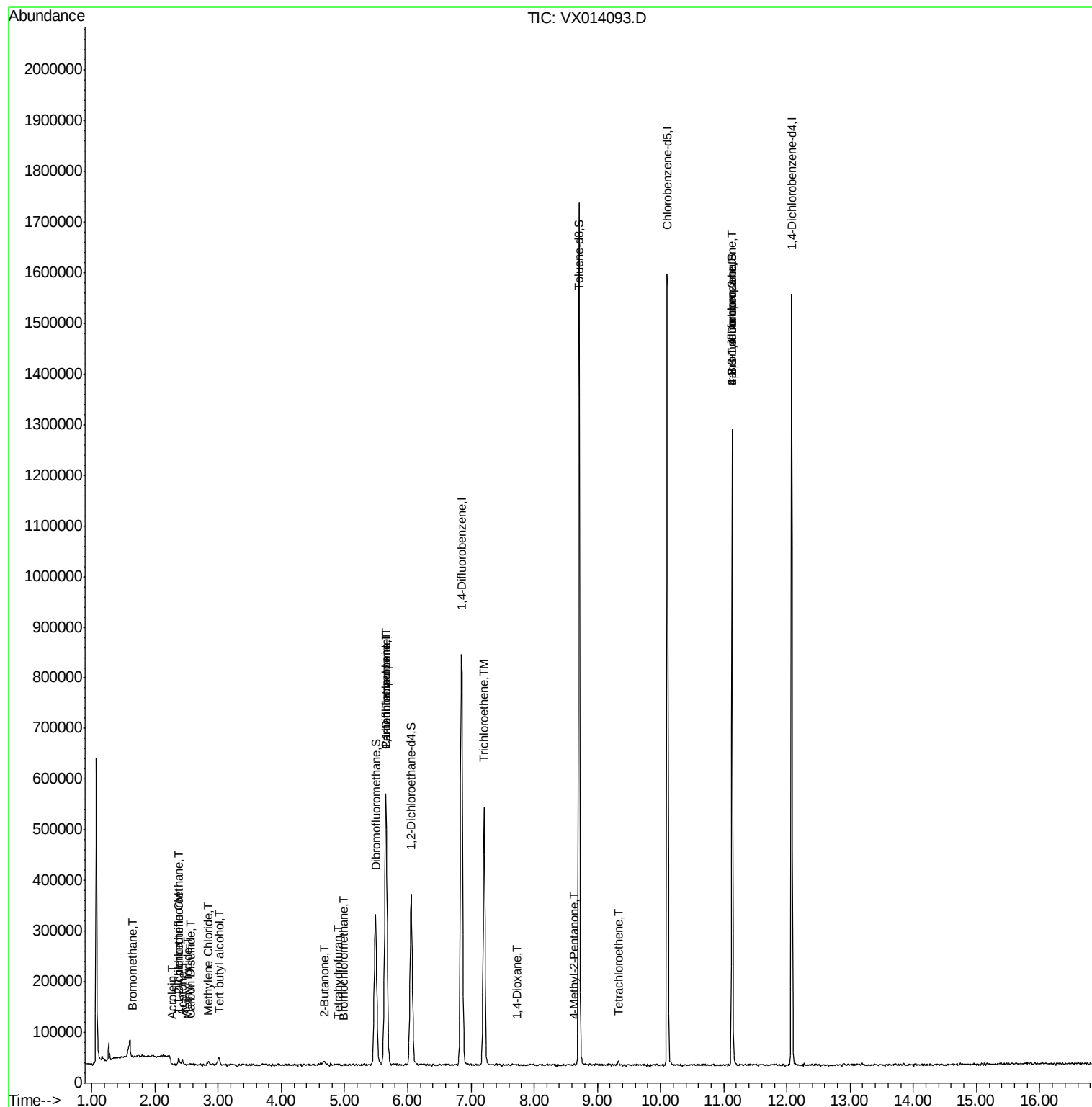
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1605	0.324	ug/l #	68
9) 1,1,2-Trichlorotrifluoroet	2.37	101	5651	1.084	ug/l	98
10) Methyl Iodide	2.52	142	973	2.755	ug/l #	66
11) Tert butyl alcohol	3.01	59	9034	6.687	ug/l #	83
12) 1,1-Dichloroethene	2.36	96	1860	0.351	ug/l #	44
13) Acrolein	2.28	56	315	0.407	ug/l	90
16) Acetone	2.44	43	12514	3.083	ug/l	96
17) Carbon Disulfide	2.56	76	1424	0.845	ug/l	98
20) Methylene Chloride	2.85	84	4156	0.650	ug/l #	79
25) 2-Butanone	4.67	43	2026	0.405	ug/l #	84
28) Bromochloromethane	5.00	49	145	0.489	ug/l #	1
29) Tetrahydrofuran	4.90	42	681	0.243	ug/l	95
36) 1,1-Dichloropropene	5.65	75	37748	4.856	ug/l #	50
38) Carbon Tetrachloride	5.65	117	47515	6.710	ug/l #	17
44) Trichloroethene	7.20	130	205160	31.057	ug/l	100
49) 1,4-Dioxane	7.73	88	241	1.703	ug/l #	1
51) 4-Methyl-2-Pentanone	8.64	43	2085	0.234	ug/l	97
64) Tetrachloroethene	9.34	164	2012	0.303	ug/l #	78
76) 1,2,3-Trichloropropane	11.14	75	163207	23.204	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	163207	65.495	ug/l #	12

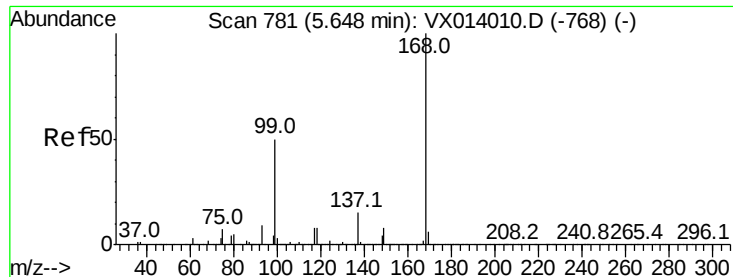
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX121819\
Data File : VX014093.D
Acq On : 18 Dec 2019 13:51
Operator : JC/SP
Sample : K6252-09DL 20X
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20191210DL

Quant Time: Dec 18 16:18:24 2019
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: VX014093.D

Acq: 18 Dec 2019 13:51

Instrument :

MSVOA_X

ClientSampleId :

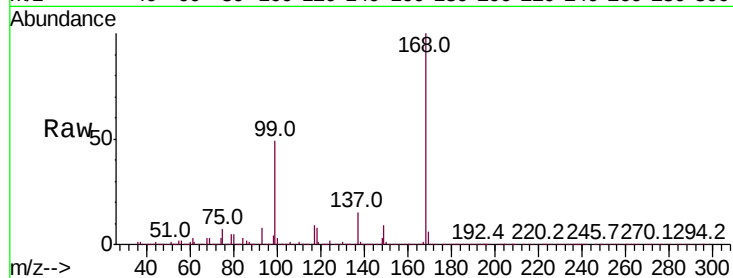
RE120D2-20191210DL

Tot Ion:168 Resp: 551634

Ion Ratio Lower Upper

168 100

99 48.8 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

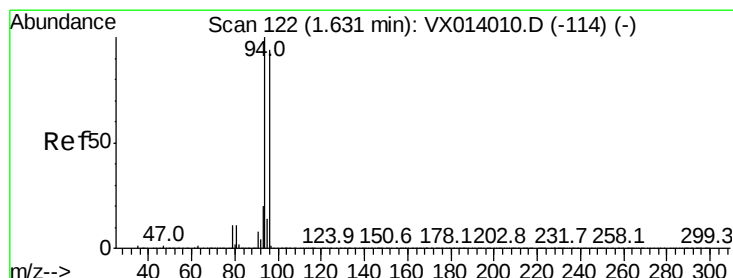
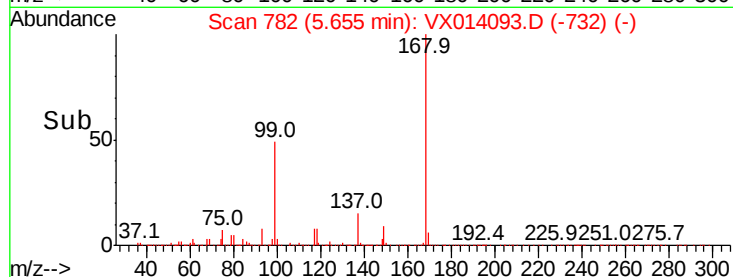
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.324 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX014093.D

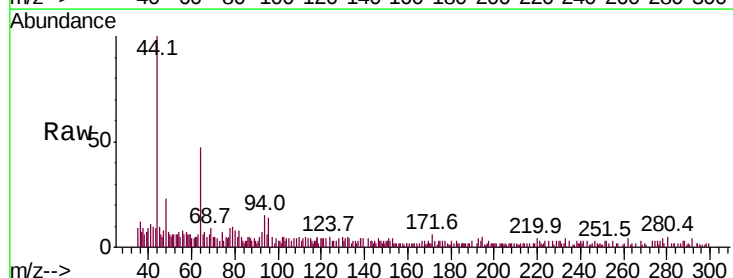
Acq: 18 Dec 2019 13:51

Tgt Ion: 94 Resp: 1605

Ion Ratio Lower Upper

94 100

96 63.5 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

800

600

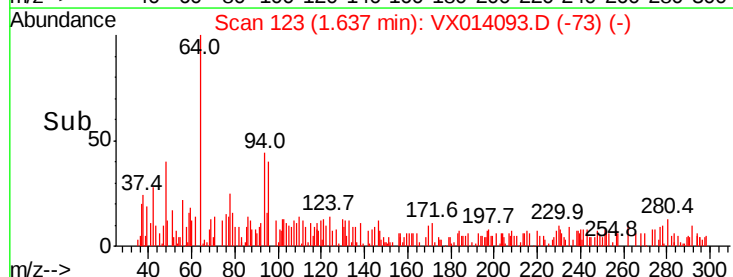
400

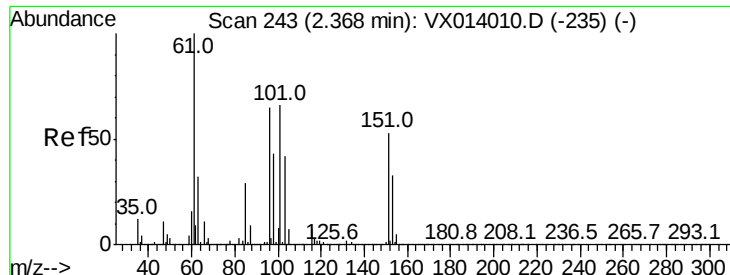
200

0

Time-->

1.60 1.65 1.70





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.084 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.01 min

Lab File: VX014093.D

Acq: 18 Dec 2019 13:51

Instrument :

MSVOA_X

ClientSampleId :

RE120D2-20191210DL

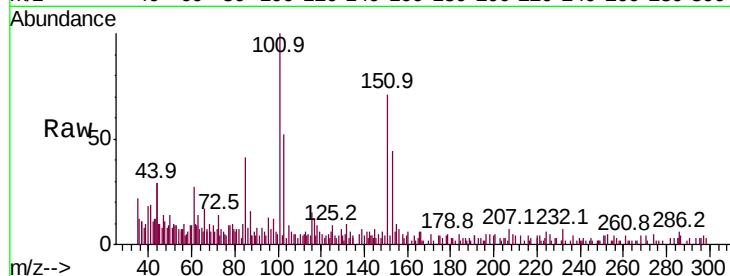
Tot Ion:101 Resp: 5651

Ion Ratio Lower Upper

101 100

85 42.1 33.7 50.5

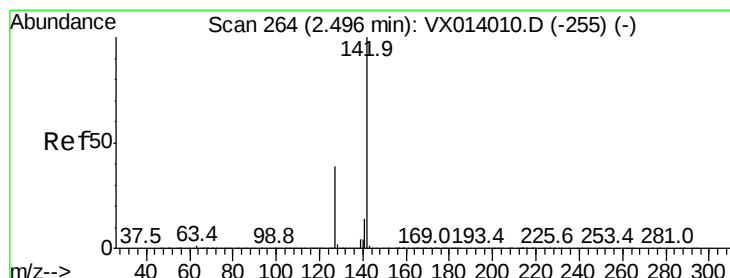
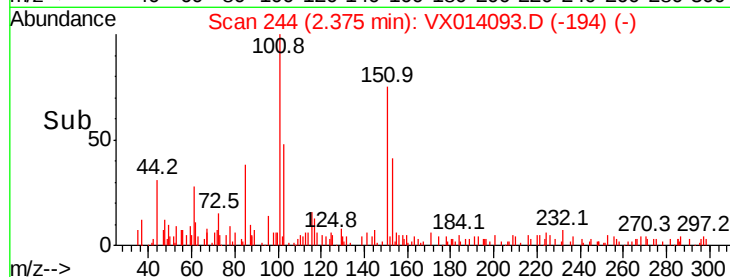
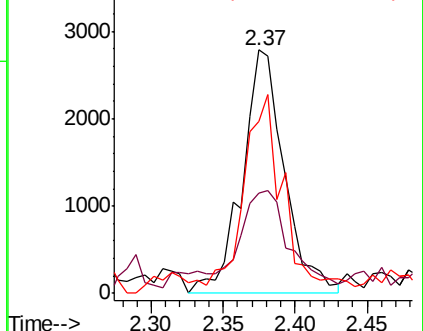
151 77.7 64.5 96.7



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



#10

Methyl Iodide

Concen: 2.755 ug/l

RT: 2.52 min Scan# 267

Delta R.T. 0.02 min

Lab File: VX014093.D

Acq: 18 Dec 2019 13:51

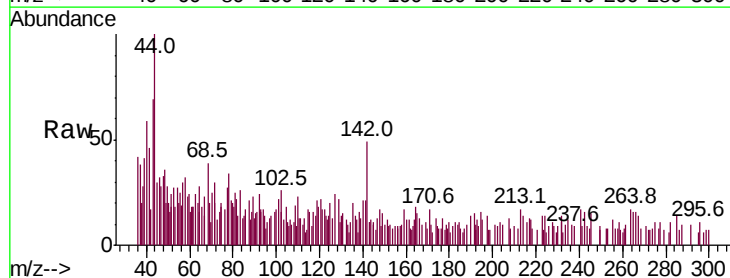
Tgt Ion:142 Resp: 973

Ion Ratio Lower Upper

142 100

127 40.7 31.6 47.4

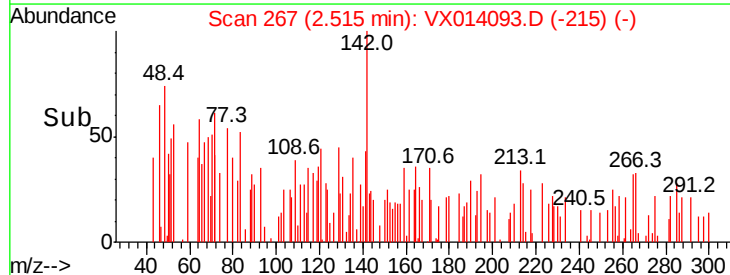
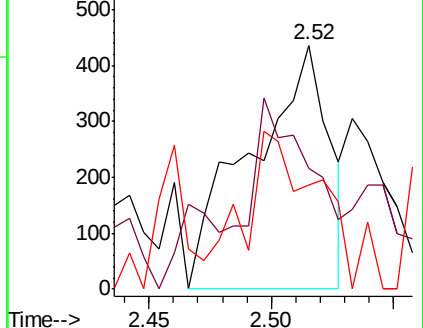
141 63.6 11.6 17.4#

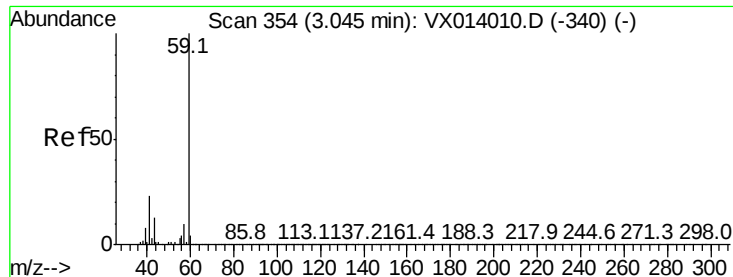


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



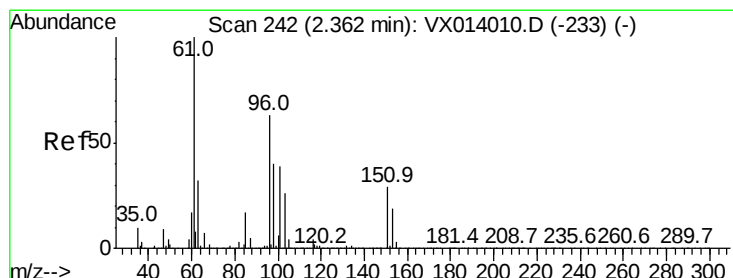
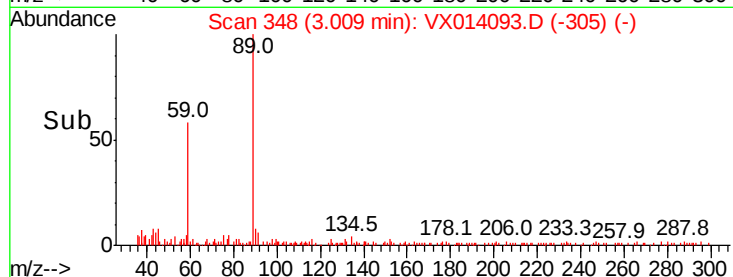
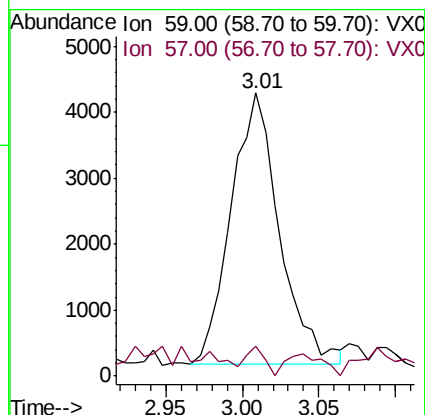
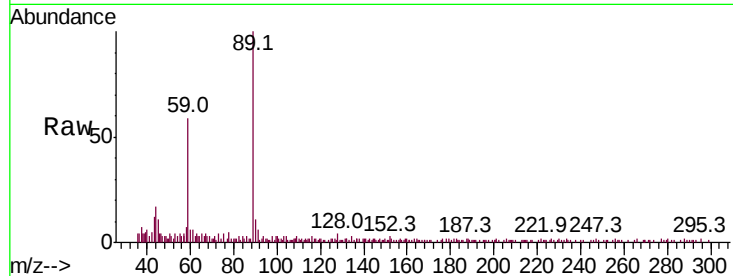


#11

Tert butyl alcohol
Concen: 6.687 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.04 min
Lab File: VX014093.D
Acq: 18 Dec 2019 13:51

Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20191210DL

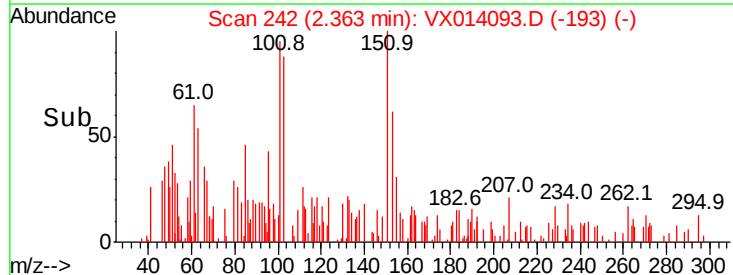
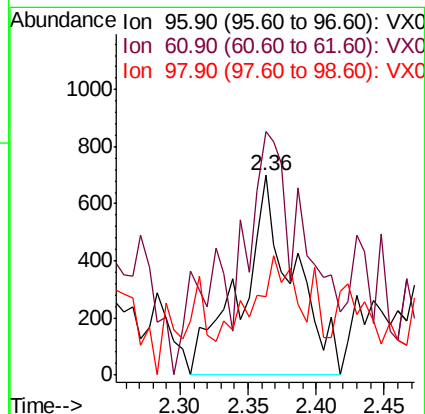
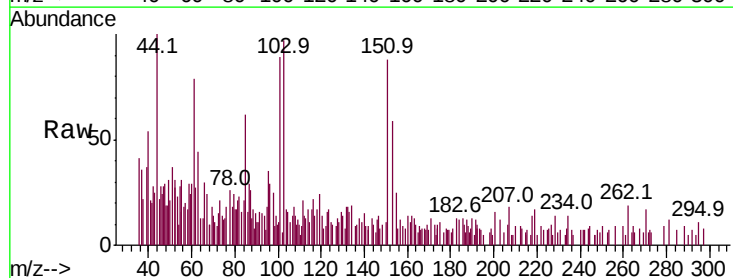
Tot Ion: 59 Resp: 9034
Ion Ratio Lower Upper
59 100
57 4.1 8.4 12.6#

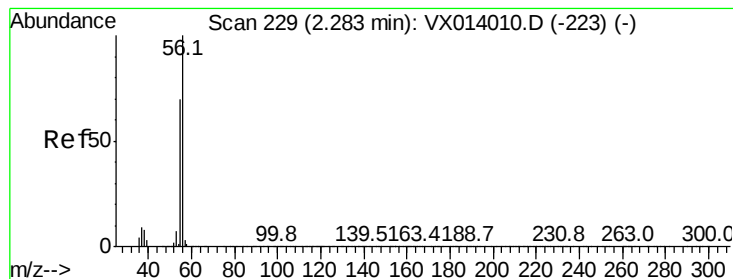


#12

1,1-Dichloroethene
Concen: 0.351 ug/l
RT: 2.36 min Scan# 242
Delta R.T. 0.00 min
Lab File: VX014093.D
Acq: 18 Dec 2019 13:51

Tgt Ion: 96 Resp: 1860
Ion Ratio Lower Upper
96 100
61 90.7 127.9 191.9#
98 12.2 50.5 75.7#





#13

Acrolein

Concen: 0.407 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX014093.D

Acq: 18 Dec 2019 13:51

Instrument :

MSVOA_X

ClientSampleId :

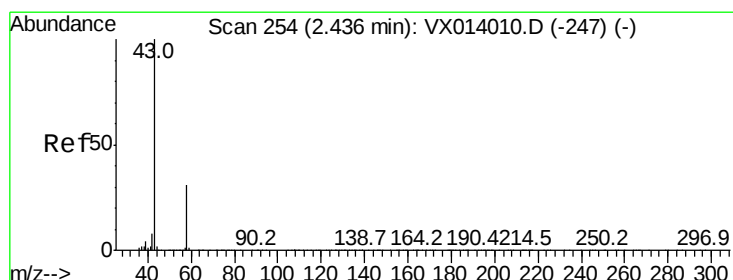
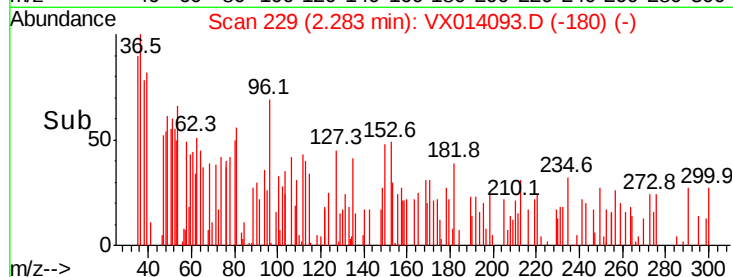
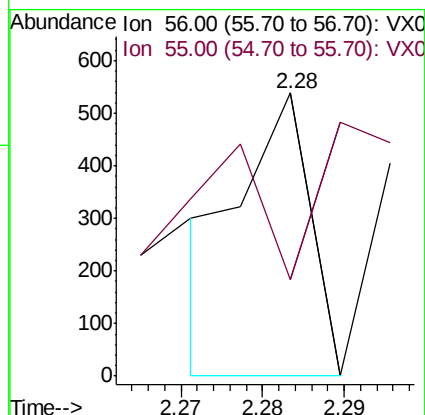
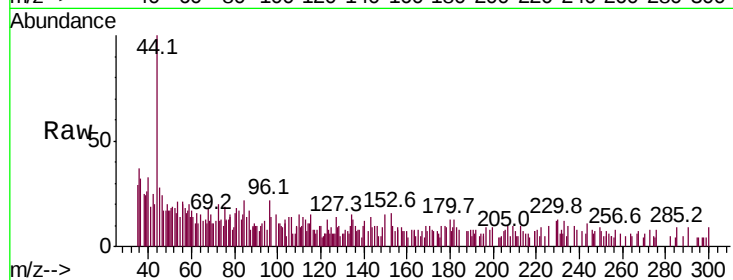
RE120D2-20191210DL

Tot Ion: 56 Resp: 315

Ion Ratio Lower Upper

56 100

55 79.4 56.9 85.3



#16

Acetone

Concen: 3.083 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX014093.D

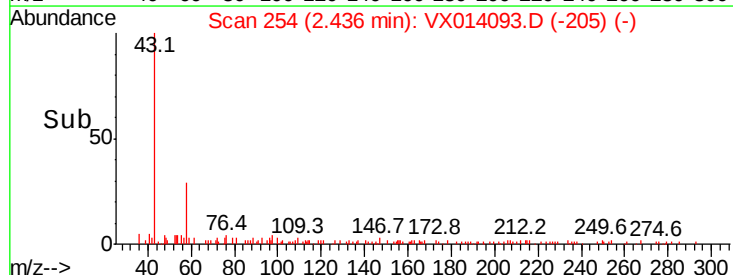
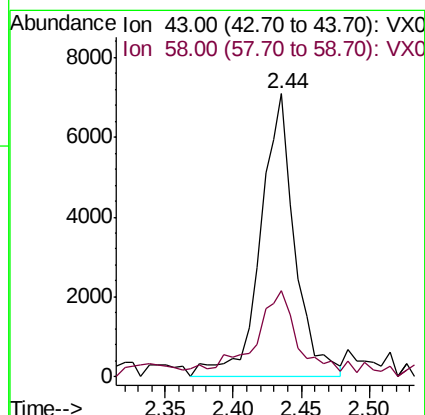
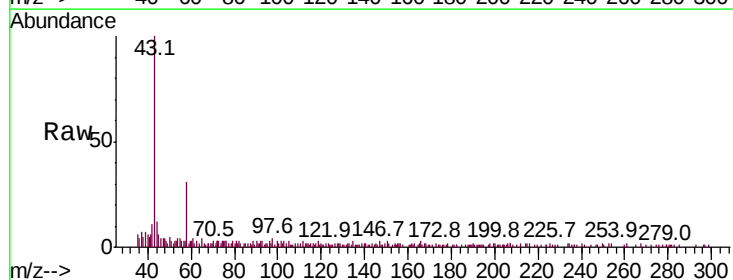
Acq: 18 Dec 2019 13:51

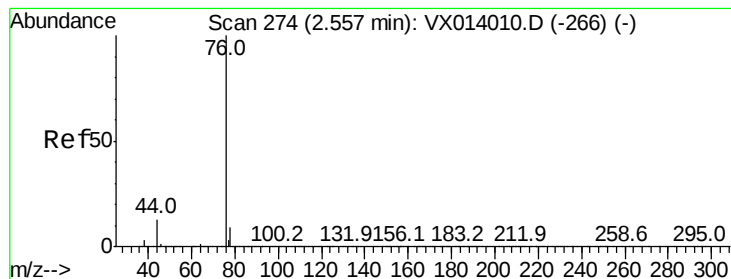
Tgt Ion: 43 Resp: 12514

Ion Ratio Lower Upper

43 100

58 28.7 24.9 37.3





#17

Carbon Disulfide

Concen: 0.845 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014093.D

Acq: 18 Dec 2019 13:51

Instrument :

MSVOA_X

ClientSampleId :

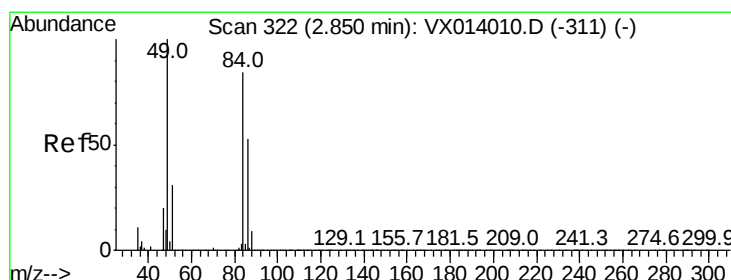
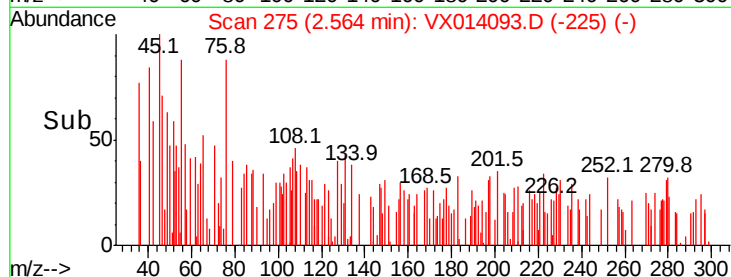
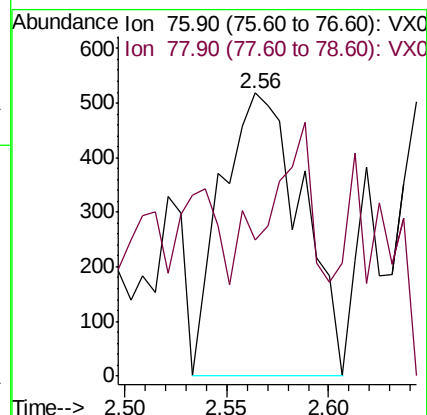
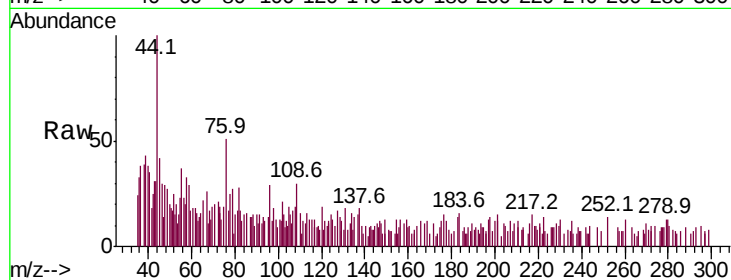
RE120D2-20191210DL

Tot Ion: 76 Resp: 1424

Ion Ratio Lower Upper

76 100

78 8.1 7.2 10.8



#20

Methylene Chloride

Concen: 0.650 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.00 min

Lab File: VX014093.D

Acq: 18 Dec 2019 13:51

Tgt Ion: 84 Resp: 4156

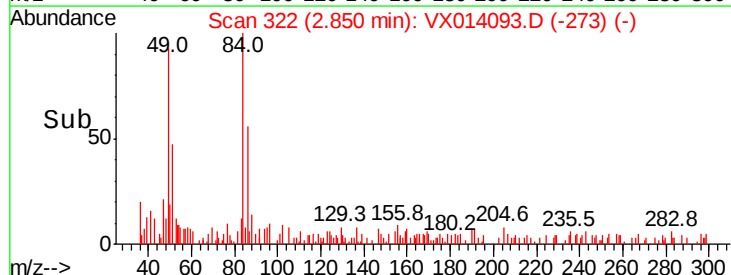
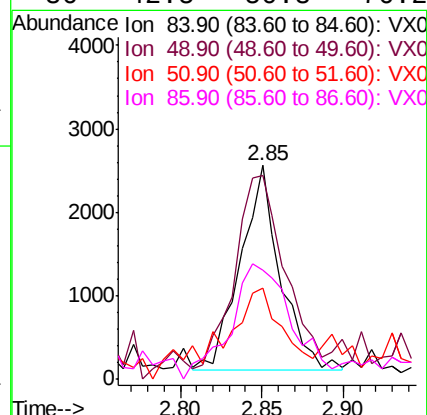
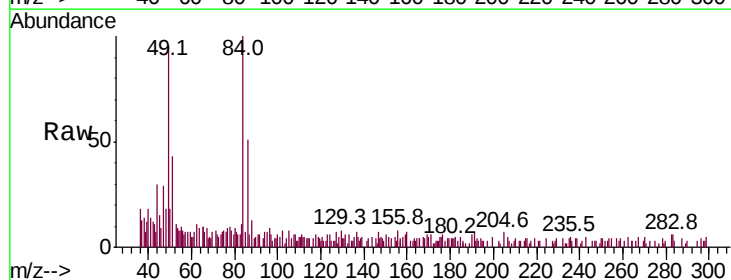
Ion Ratio Lower Upper

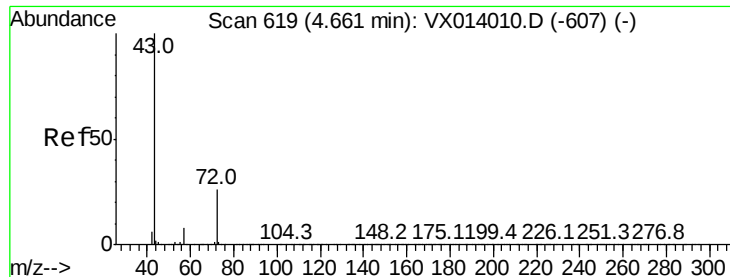
84 100

49 95.7 95.8 143.6#

51 33.2 29.8 44.8

86 42.5 50.8 76.2#





#25

2-Butanone

Concen: 0.405 ug/l

RT: 4.67 min Scan# 621

Delta R.T. 0.01 min

Lab File: VX014093.D

Acq: 18 Dec 2019 13:51

Instrument :

MSVOA_X

ClientSampleId :

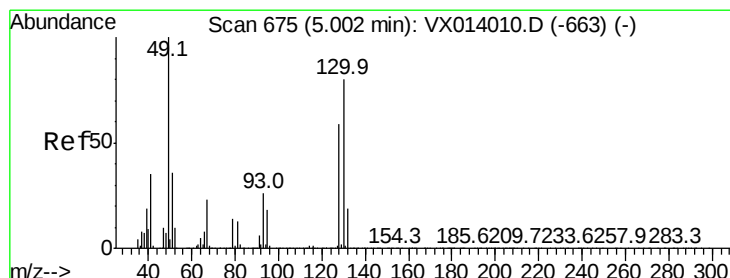
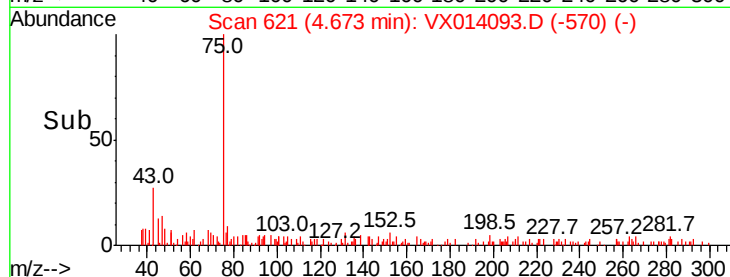
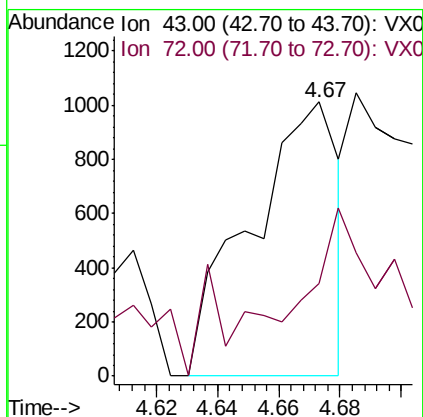
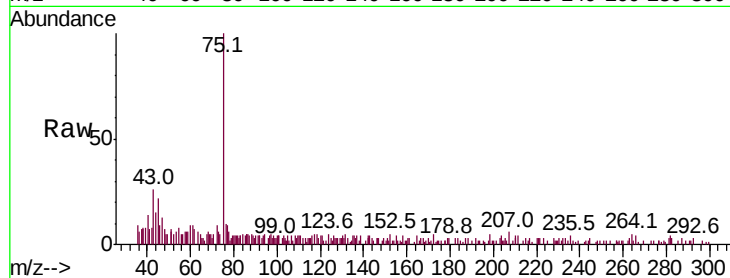
RE120D2-20191210DL

Tot Ion: 43 Resp: 2026

Ion Ratio Lower Upper

43 100

72 17.8 21.0 31.4#



#28

Bromochloromethane

Concen: 0.489 ug/l

RT: 5.00 min Scan# 674

Delta R.T. -0.01 min

Lab File: VX014093.D

Acq: 18 Dec 2019 13:51

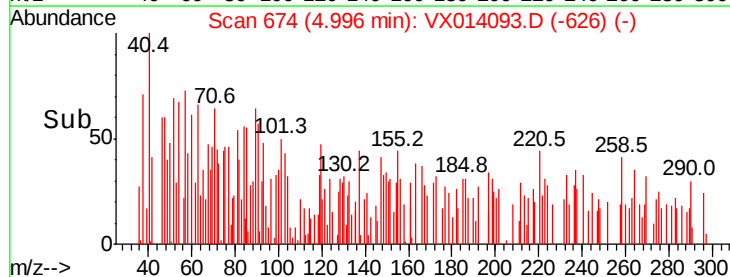
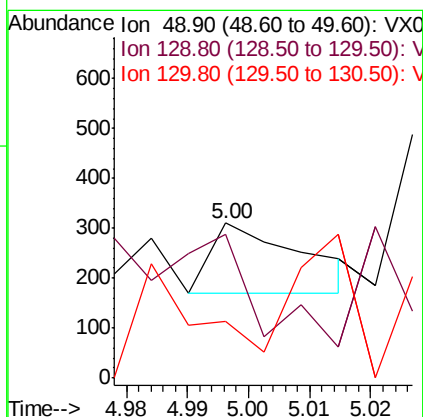
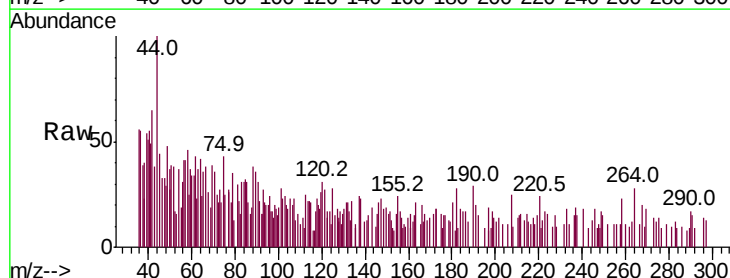
Tgt Ion: 49 Resp: 145

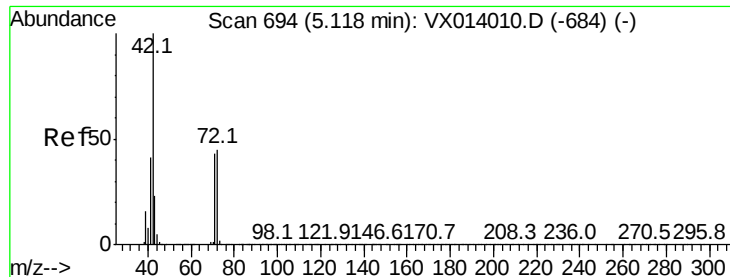
Ion Ratio Lower Upper

49 100

129 218.6 0.0 5.0#

130 0.0 64.6 97.0#





#29

Tetrahydrofuran

Concen: 0.243 ug/l

RT: 4.90 min Scan# 658

Delta R.T. -0.22 min

Lab File: VX014093.D

Acq: 18 Dec 2019 13:51

Instrument :

MSVOA_X

ClientSampleID :

RE120D2-20191210DL

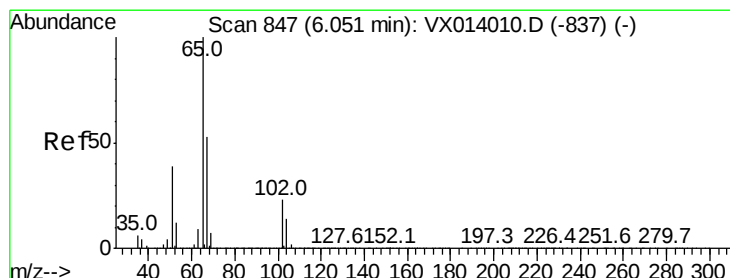
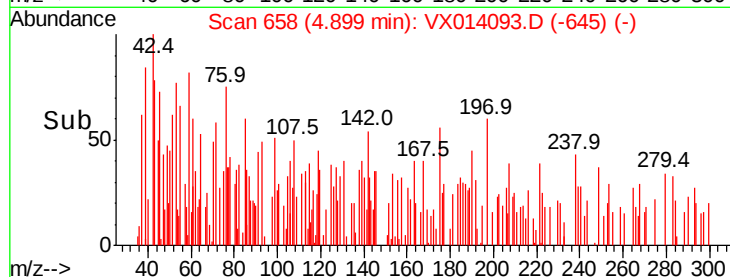
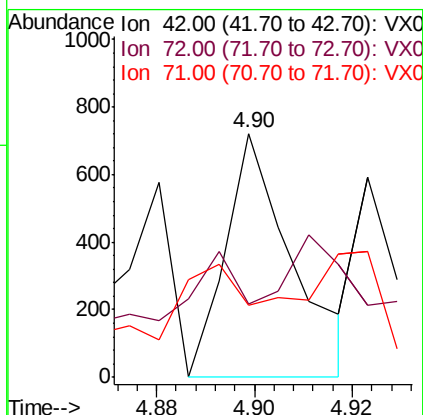
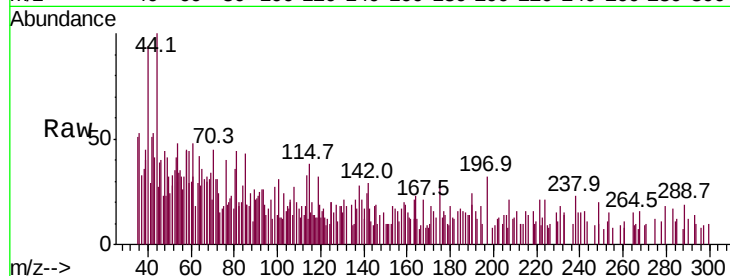
Tot Ion: 42 Resp: 681

Ion Ratio Lower Upper

42 100

72 40.5 35.8 53.8

71 39.8 33.6 50.4



#33

1,2-Dichloroethane-d4

Concen: 49.773 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014093.D

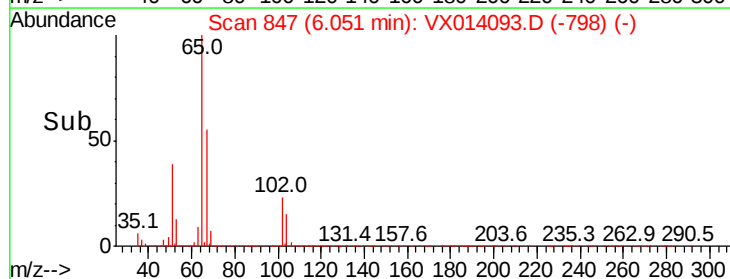
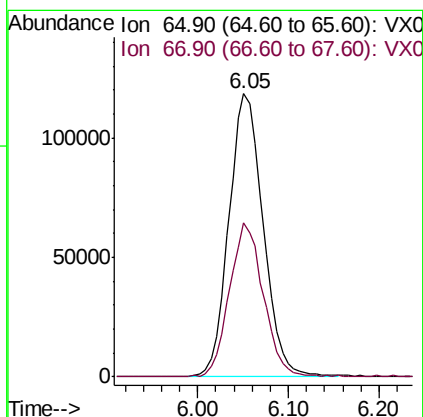
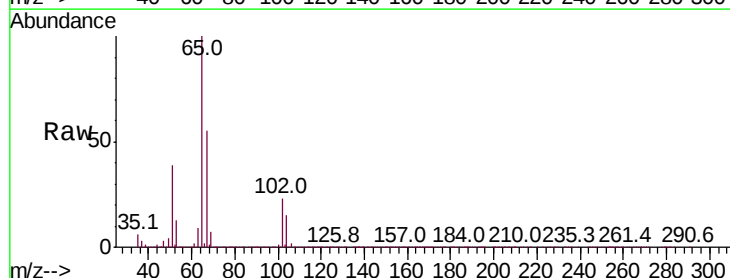
Acq: 18 Dec 2019 13:51

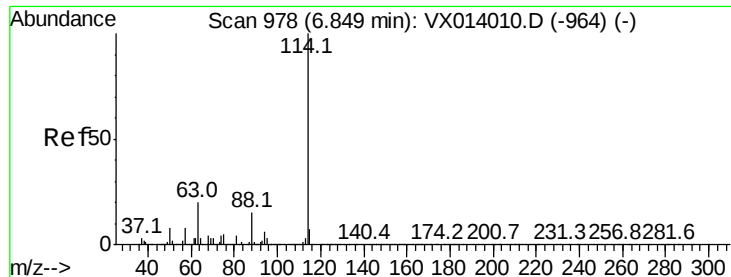
Tgt Ion: 65 Resp: 311183

Ion Ratio Lower Upper

65 100

67 53.4 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: VX014093.D

Acq: 18 Dec 2019 13:51

Instrument :

MSVOA_X

ClientSampleId :

RE120D2-20191210DL

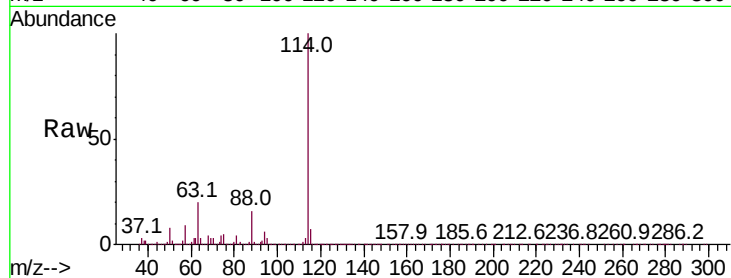
Tot Ion:114 Resp: 847131

Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.8

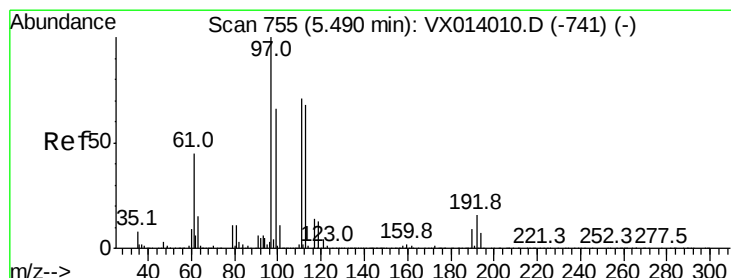
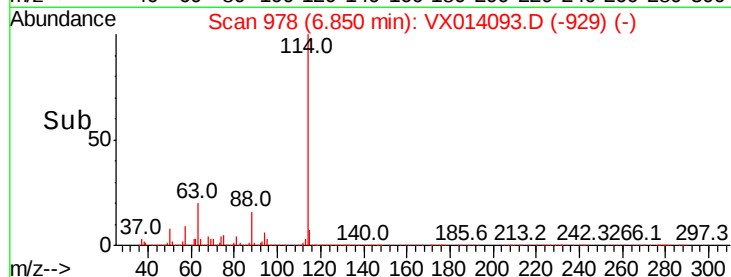
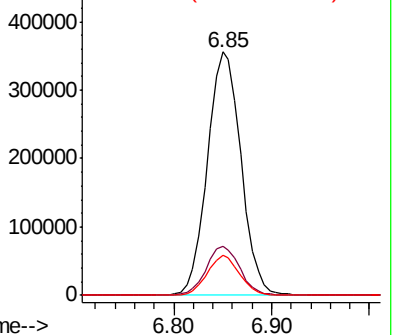
88 16.3 0.0 30.4



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: 49.422 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014093.D

Acq: 18 Dec 2019 13:51

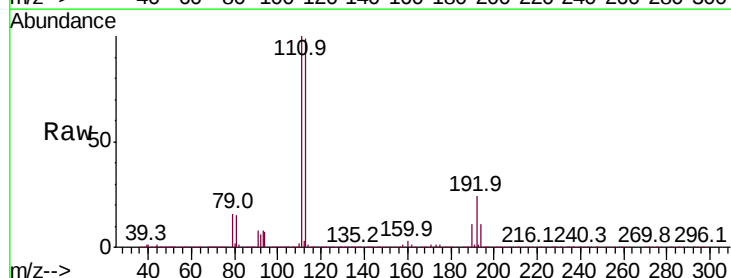
Tgt Ion:113 Resp: 254505

Ion Ratio Lower Upper

113 100

111 103.1 82.0 123.0

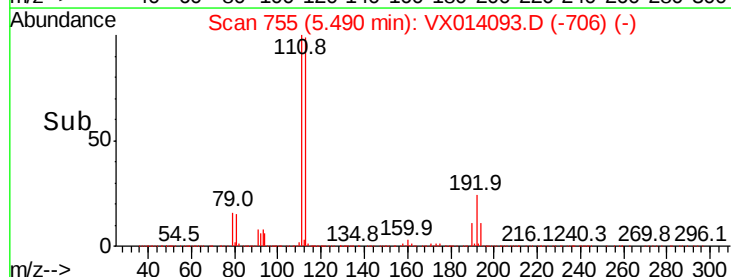
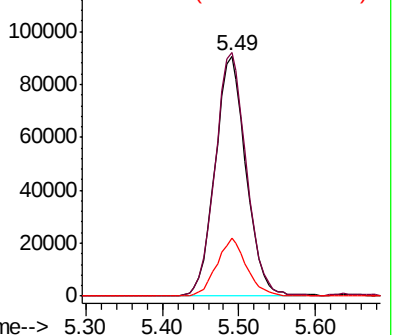
192 23.5 19.3 28.9

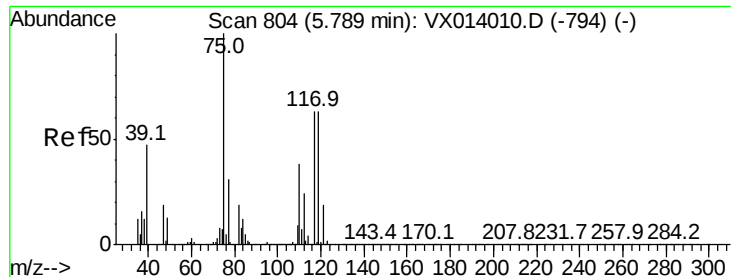


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

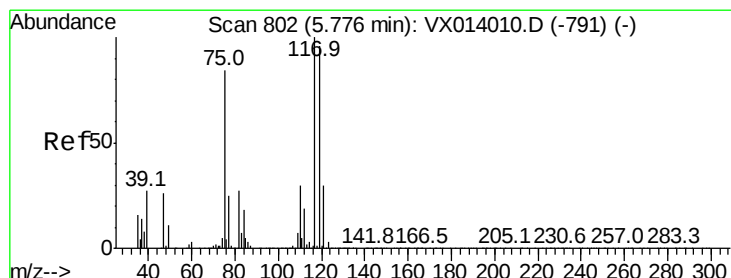
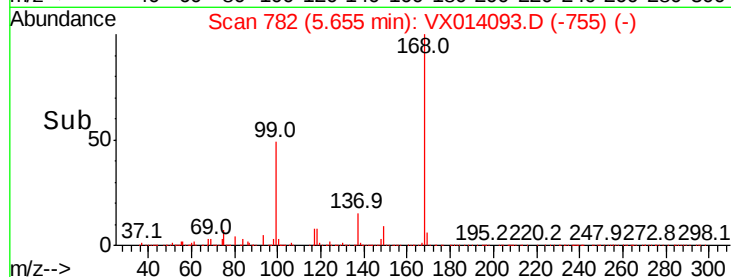
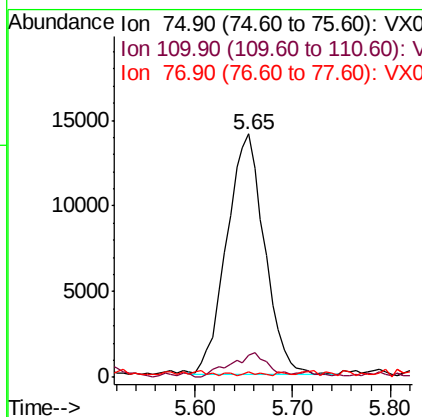
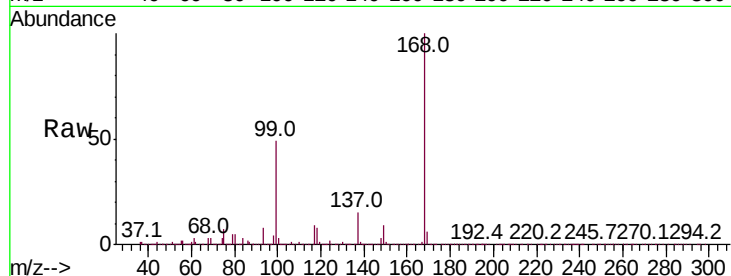




#36
 1,1-Dichloropropene
 Concen: 4.856 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX014093.D
 Acq: 18 Dec 2019 13:51

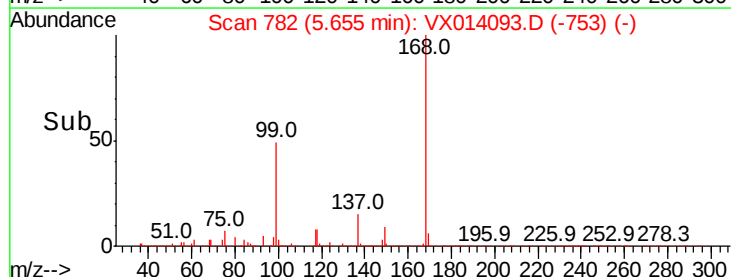
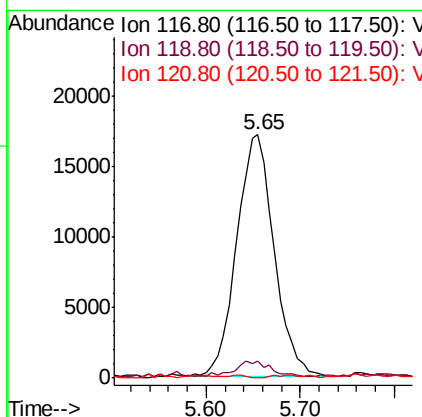
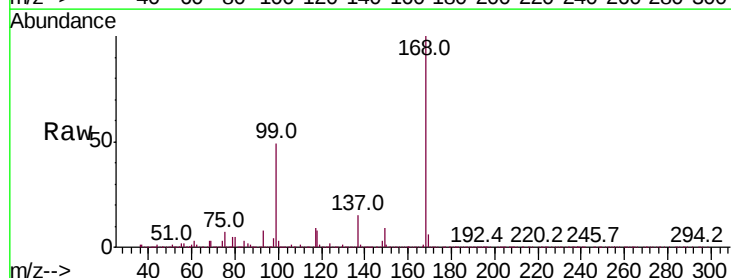
Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D2-20191210DL

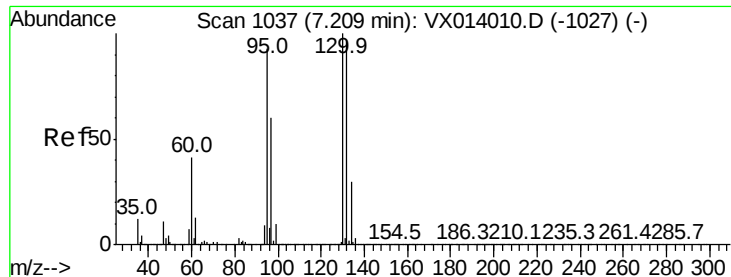
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.1	18.3	54.9#
77	0.6	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.710 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX014093.D
 Acq: 18 Dec 2019 13:51

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	76.2	114.4#
121	0.0	23.6	35.4#





#44

Trichloroethene

Concen: 31.057 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.01 min

Lab File: VX014093.D

Acq: 18 Dec 2019 13:51

Instrument :

MSVOA_X

ClientSampleId :

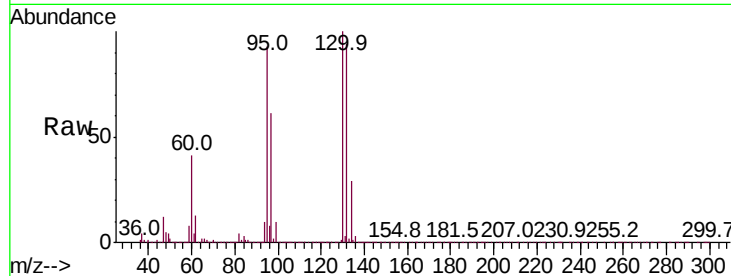
RE120D2-20191210DL

Tot Ion:130 Resp: 205160

Ion Ratio Lower Upper

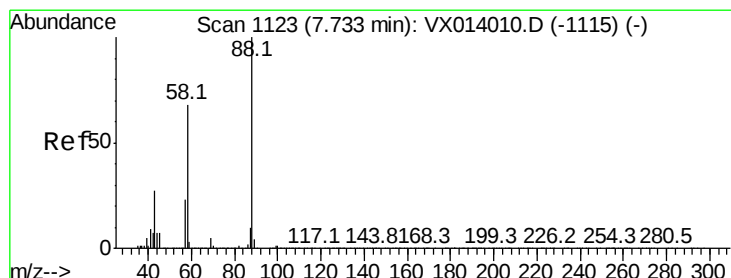
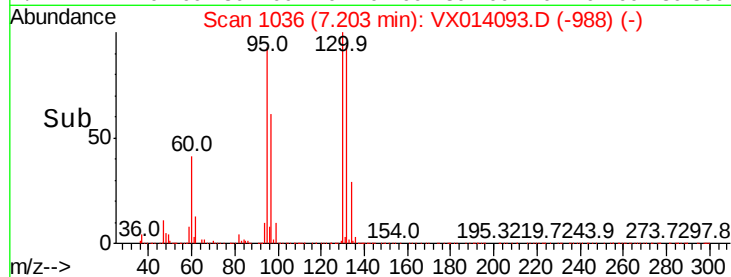
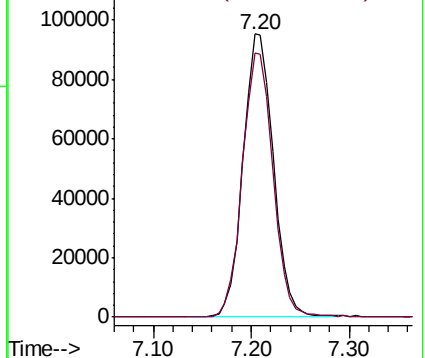
130 100

95 93.1 0.0 185.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 1.703 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX014093.D

Acq: 18 Dec 2019 13:51

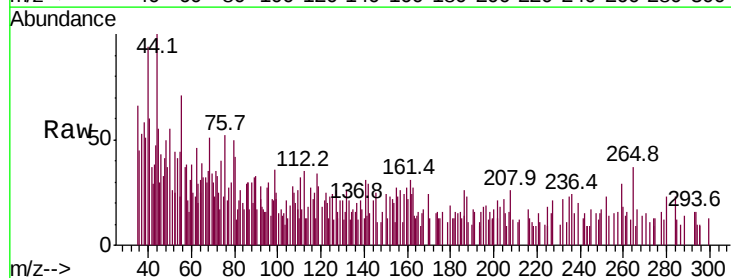
Tgt Ion: 88 Resp: 241

Ion Ratio Lower Upper

88 100

43 277.6 26.5 39.7#

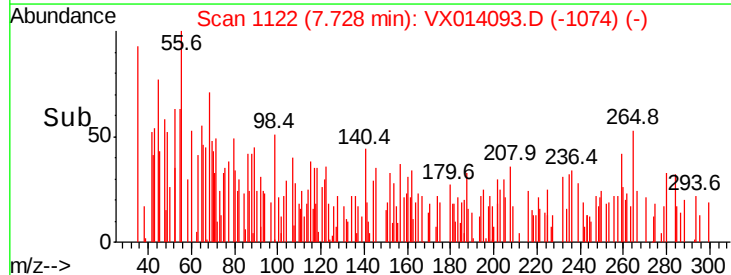
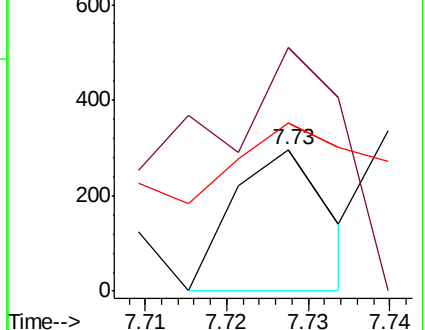
58 103.7 56.8 85.2#

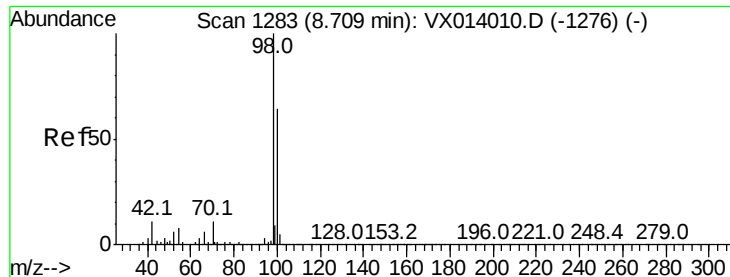


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.080 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014093.D

Acq: 18 Dec 2019 13:51

Instrument :

MSVOA_X

ClientSampleId :

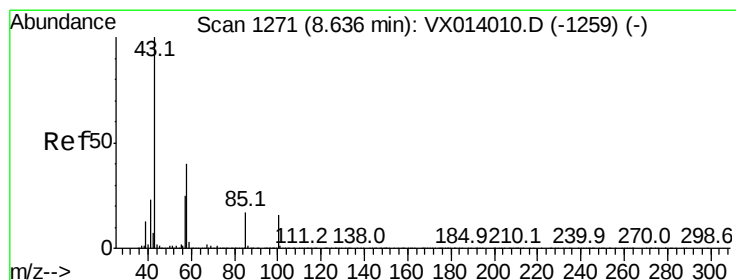
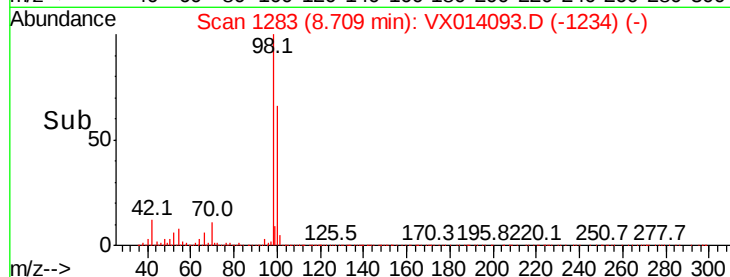
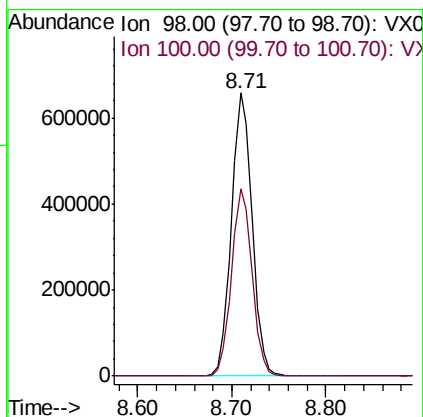
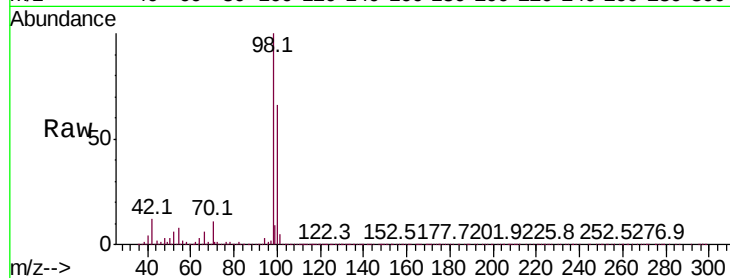
RE120D2-20191210DL

Tot Ion: 98 Resp: 1004033

Ion Ratio Lower Upper

98 100

100 65.8 52.9 79.3



#51

4-Methyl-2-Pentanone

Concen: 0.234 ug/l

RT: 8.64 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VX014093.D

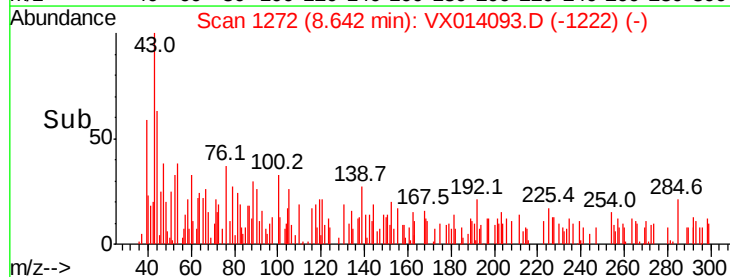
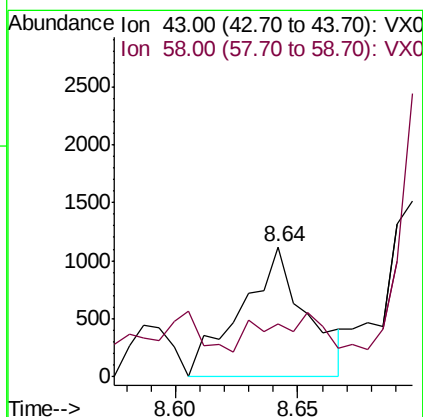
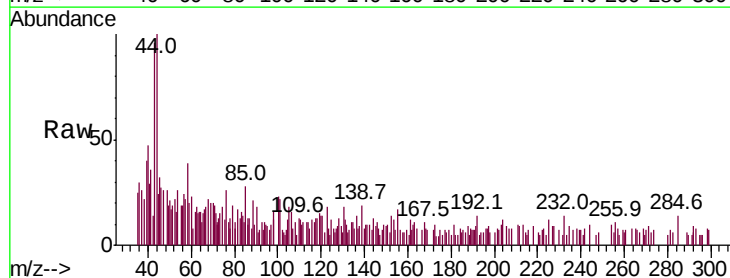
Acq: 18 Dec 2019 13:51

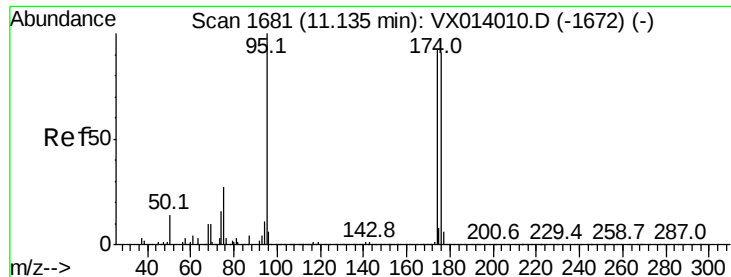
Tgt Ion: 43 Resp: 2085

Ion Ratio Lower Upper

43 100

58 38.0 32.2 48.2





#62

4-Bromofluorobenzene

Concen: 45.140 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX014093.D

Acq: 18 Dec 2019 13:51

Instrument :

MSVOA_X

ClientSampleId :

RE120D2-20191210DL

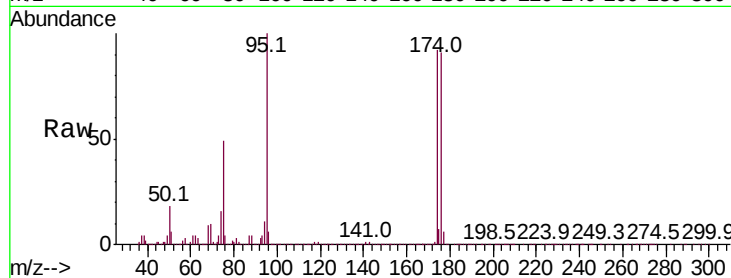
Tot Ion: 95 Resp: 330816

Ion Ratio Lower Upper

95 100

174 88.9 0.0 175.8

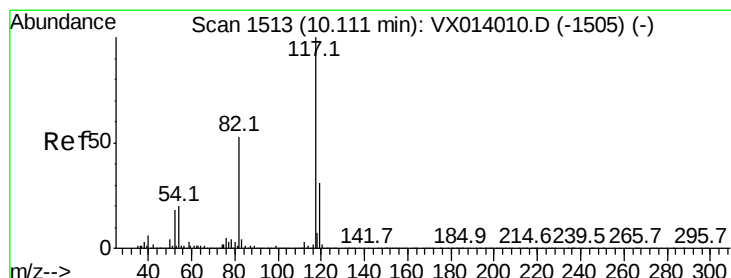
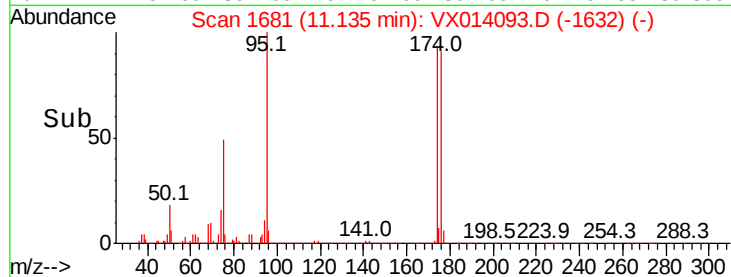
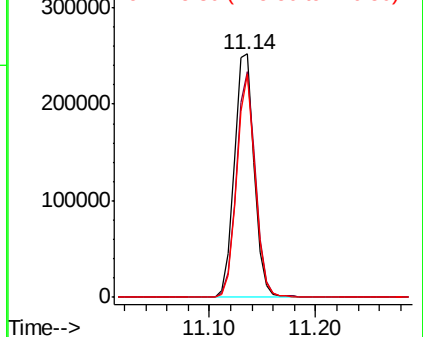
176 85.8 0.0 173.0



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# 1513

Delta R.T. 0.00 min

Lab File: VX014093.D

Acq: 18 Dec 2019 13:51

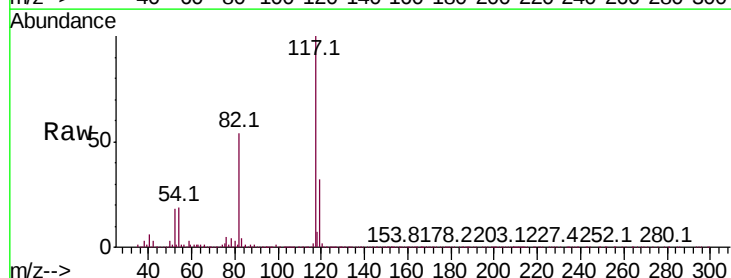
Tgt Ion: 117 Resp: 750941

Ion Ratio Lower Upper

117 100

82 53.7 42.2 63.4

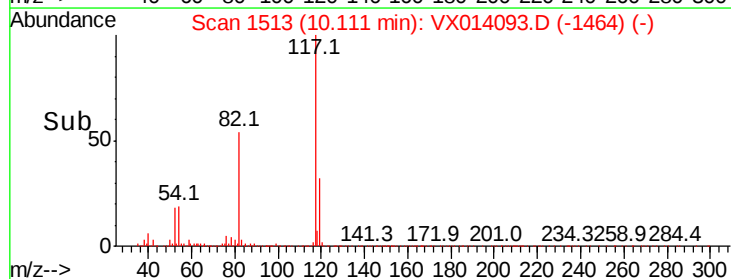
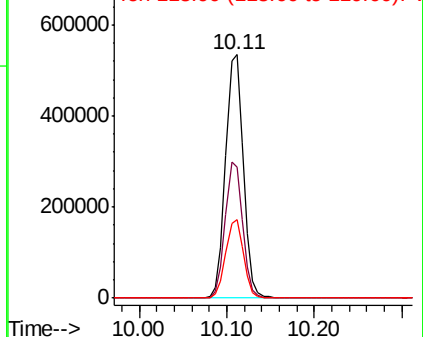
119 32.3 25.1 37.7

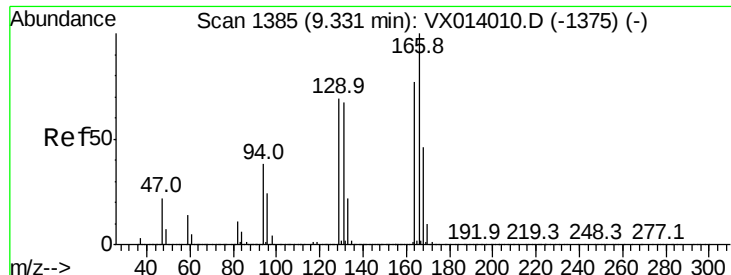


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 0.303 ug/l

RT: 9.34 min Scan# 1386

Delta R.T. 0.01 min

Lab File: VX014093.D

Acq: 18 Dec 2019 13:51

Instrument :

MSVOA_X

ClientSampleId :

RE120D2-20191210DL

Tot Ion:164 Resp: 2012

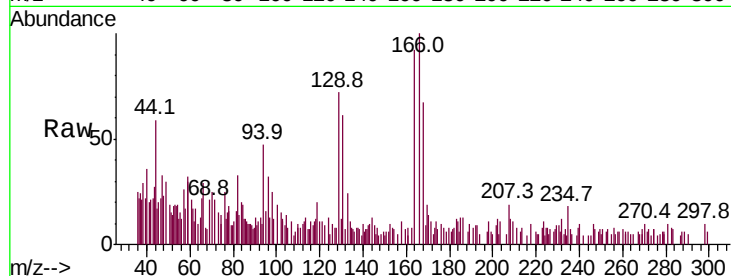
Ion Ratio Lower Upper

164 100

166 108.3 104.0 156.0

129 72.0 72.2 108.4#

131 61.1 69.6 104.4#



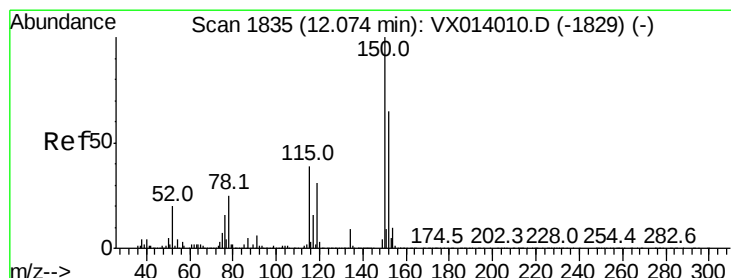
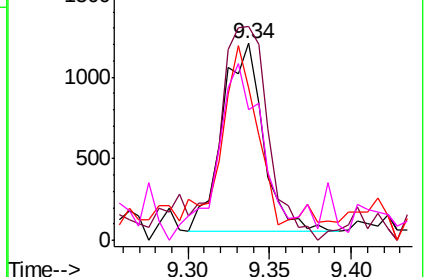
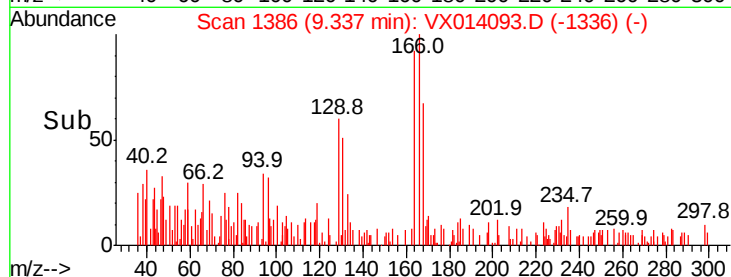
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014093.D

Acq: 18 Dec 2019 13:51

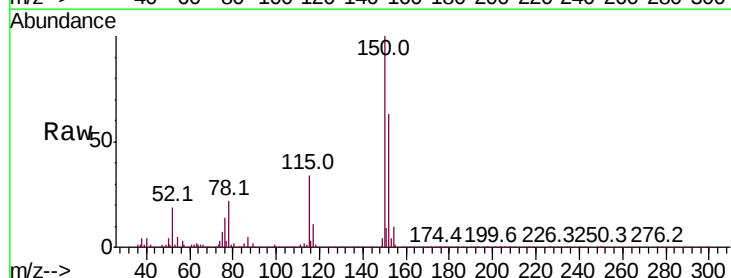
Tgt Ion:152 Resp: 323974

Ion Ratio Lower Upper

152 100

115 55.8 38.3 114.9

150 157.6 0.0 345.4

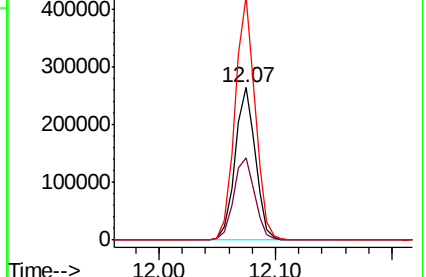
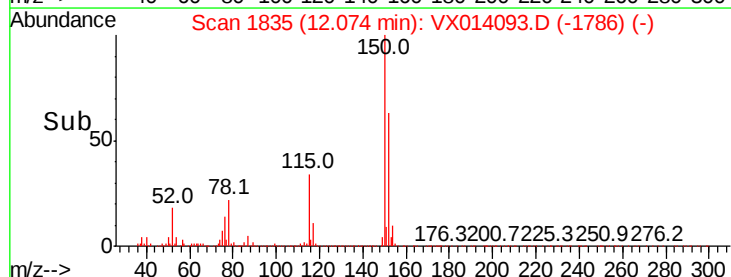


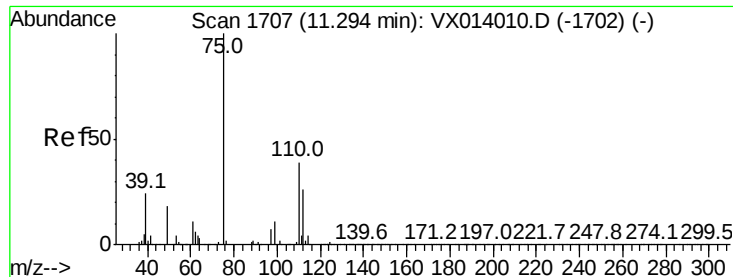
Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

Time-->





#76

1,2,3-Trichloropropane

Concen: 23.204 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX014093.D

Acq: 18 Dec 2019 13:51

Instrument :

MSVOA_X

ClientSampleId :

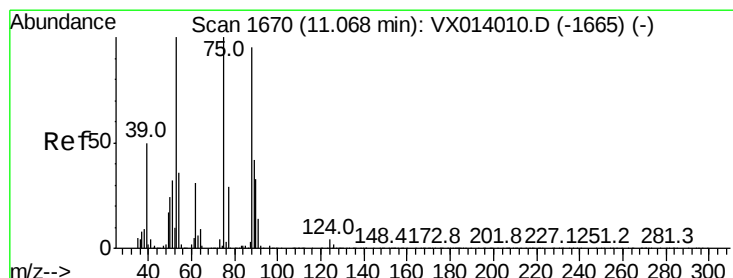
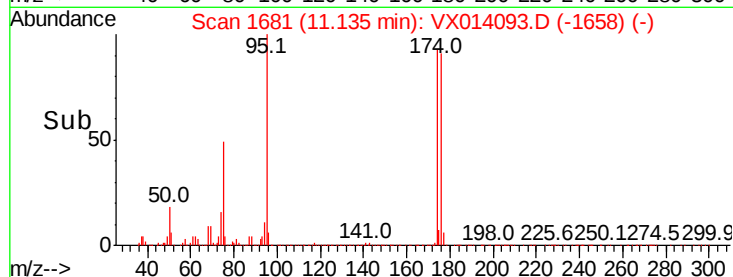
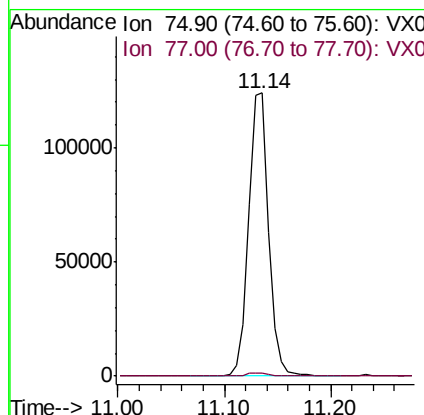
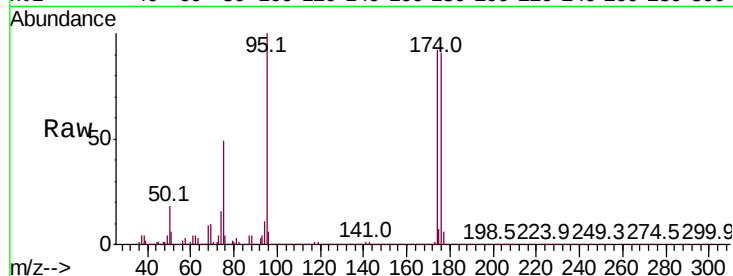
RE120D2-20191210DL

Tot Ion: 75 Resp: 163207

Ion Ratio Lower Upper

75 100

77 1.4 19.3 57.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 65.495 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX014093.D

Acq: 18 Dec 2019 13:51

Tgt Ion: 75 Resp: 163207

Ion Ratio Lower Upper

75 100

53 0.2 76.7 115.1#

89 0.2 34.6 51.8#

