

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121719\
 Data File : VX014064.D
 Acq On : 17 Dec 2019 20:06
 Operator : JC/SP
 Sample : K6251-22
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D2-20191209

Quant Time: Dec 18 07:16:49 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	563131	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	866572	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	769480	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	323523	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	318358	49.88	ug/l	0.00
Spiked Amount			Recovery	=	99.76%	
35) Dibromofluoromethane	5.49	113	259693	49.30	ug/l	0.00
Spiked Amount			Recovery	=	98.60%	
50) Toluene-d8	8.71	98	1022403	49.85	ug/l	0.00
Spiked Amount			Recovery	=	99.70%	
62) 4-Bromofluorobenzene	11.14	95	333538	44.49	ug/l	0.00
Spiked Amount			Recovery	=	88.98%	

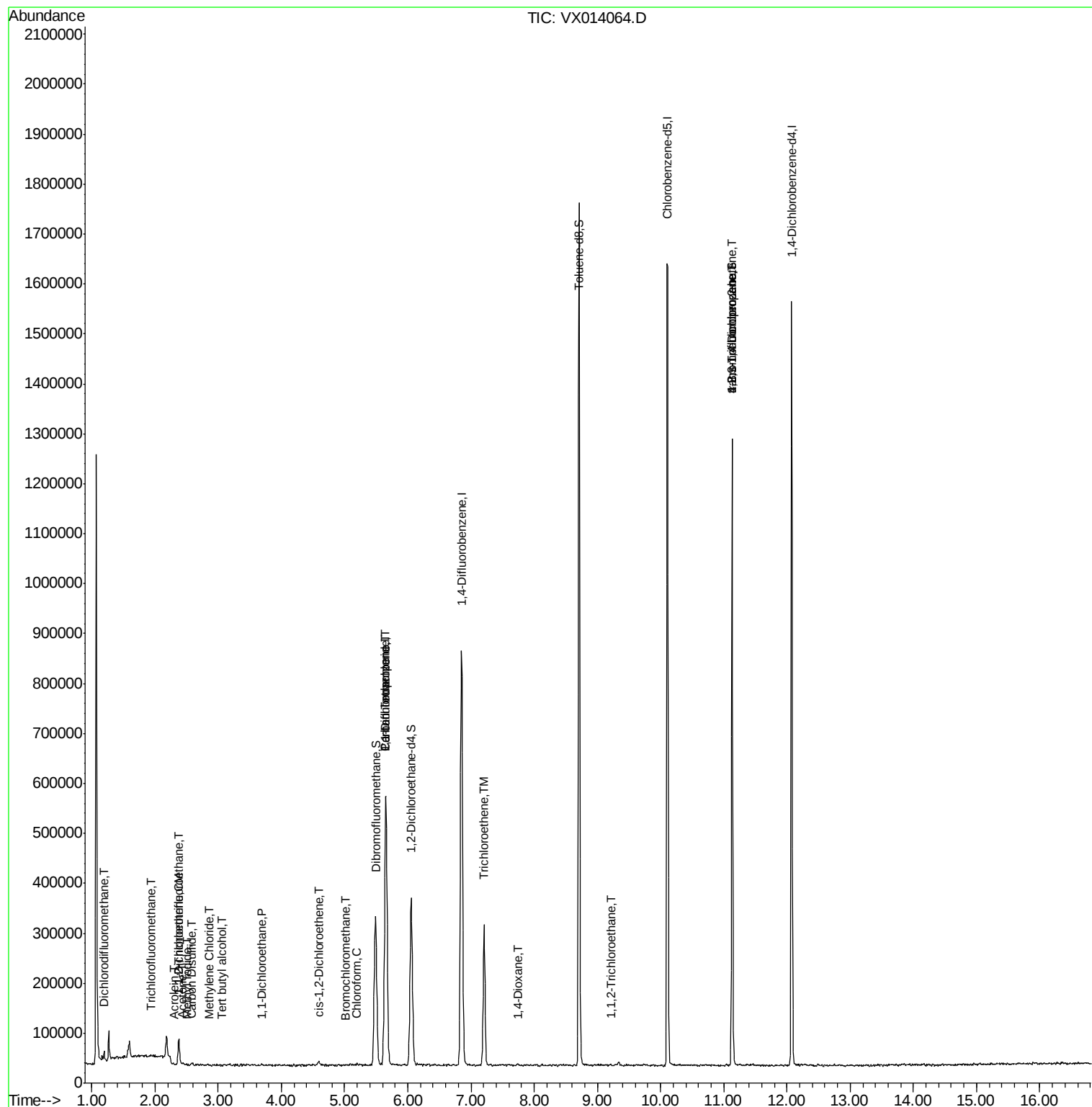
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	8115	1.611	ug/l	100
7) Trichlorofluoromethane	1.94	101	1888	0.214	ug/l #	17
9) 1,1,2-Trichlorotrifluoroet	2.37	101	19729	3.706	ug/l	98
10) Methyl Iodide	2.50	142	432	2.679	ug/l #	3
11) Tert butyl alcohol	3.06	59	696	0.505	ug/l #	72
12) 1,1-Dichloroethene	2.37	96	2463	0.455	ug/l #	68
13) Acrolein	2.31	56	729	0.923	ug/l #	41
16) Acetone	2.43	43	3143	0.759	ug/l #	88
17) Carbon Disulfide	2.58	76	1175	0.827	ug/l #	75
20) Methylene Chloride	2.85	84	1582	0.242	ug/l #	53
24) 1,1-Dichloroethane	3.69	63	3002	0.280	ug/l #	62
27) cis-1,2-Dichloroethene	4.59	96	5437	0.806	ug/l	82
28) Bromochloromethane	5.01	49	266	0.518	ug/l #	11
30) Chloroform	5.20	83	2246	0.221	ug/l	85
36) 1,1-Dichloropropene	5.65	75	38497	4.842	ug/l #	52
38) Carbon Tetrachloride	5.65	117	50027	6.906	ug/l #	17
44) Trichloroethene	7.20	130	114275	16.911	ug/l	97
49) 1,4-Dioxane	7.75	88	2509	17.327	ug/l #	72
55) 1,1,2-Trichloroethane	9.21	97	1262	0.204	ug/l #	88
76) 1,2,3-Trichloropropane	11.13	75	163548	23.285	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	163548	65.724	ug/l #	12

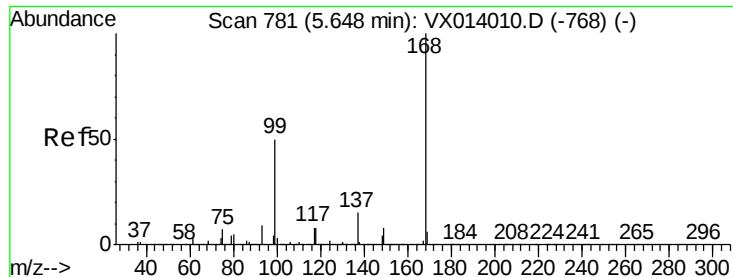
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX121719\
Data File : VX014064.D
Acq On : 17 Dec 2019 20:06
Operator : JC/SP
Sample : K6251-22
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE132D2-20191209

Quant Time: Dec 18 07:16:49 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: VX014064.D

Acq: 17 Dec 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

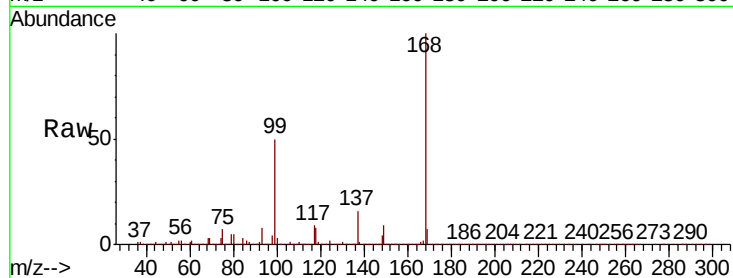
RE132D2-20191209

Tot Ion:168 Resp: 563131

Ion Ratio Lower Upper

168 100

99 49.7 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

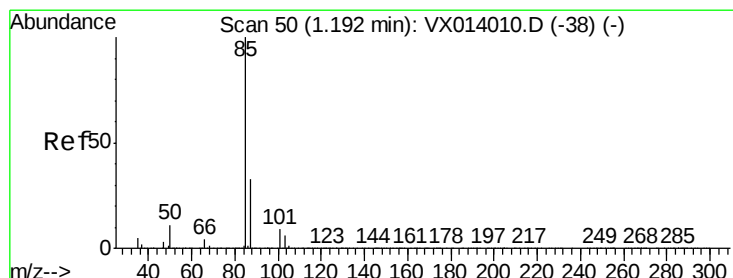
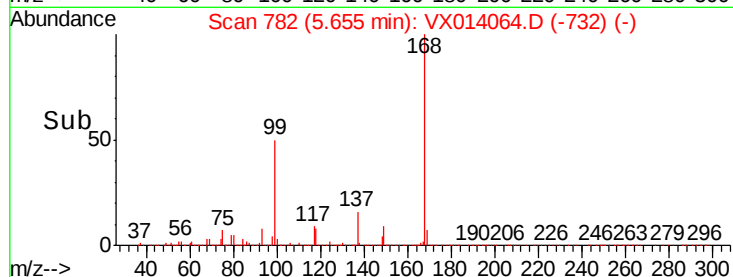
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 1.611 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX014064.D

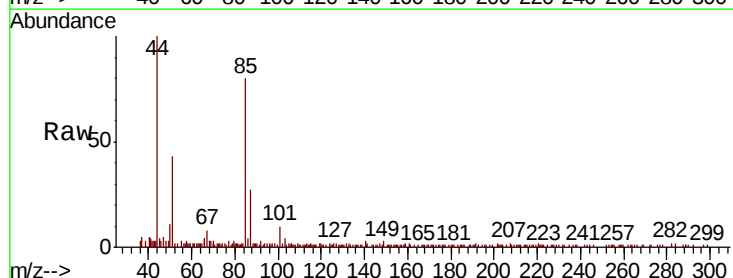
Acq: 17 Dec 2019 20:06

Tgt Ion: 85 Resp: 8115

Ion Ratio Lower Upper

85 100

87 32.7 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

8000

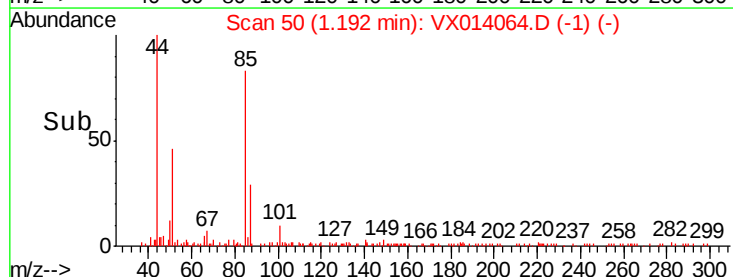
6000

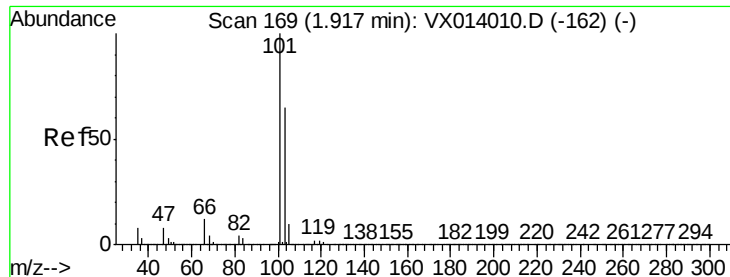
4000

2000

0

Time-->



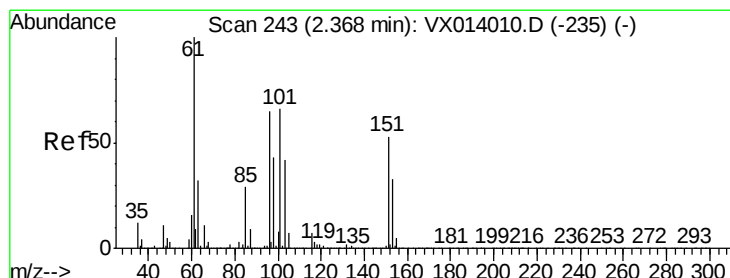
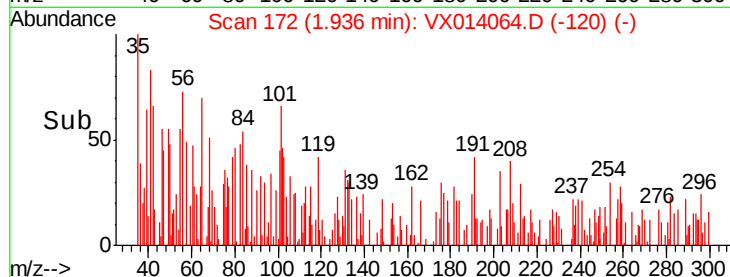
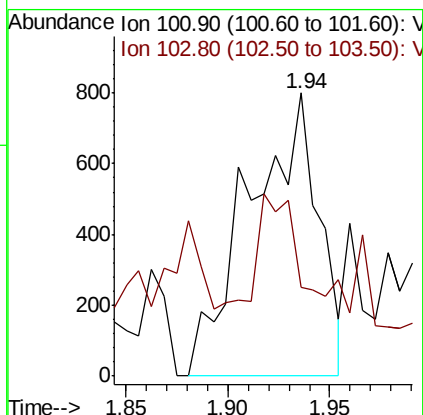
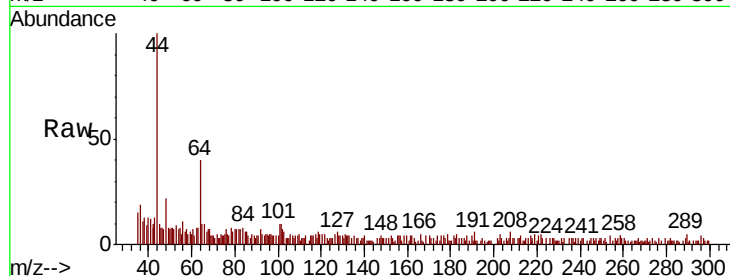


#7

Trichlorofluoromethane
Concen: 0.214 ug/l
RT: 1.94 min Scan# 172
Delta R.T. 0.02 min
Lab File: VX014064.D
Acq: 17 Dec 2019 20:06

Instrument :
MSVOA_X
ClientSampleId :
RE132D2-20191209

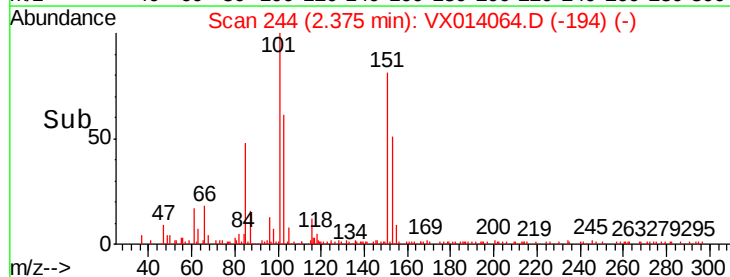
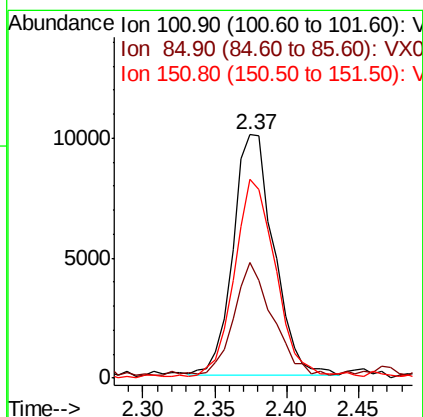
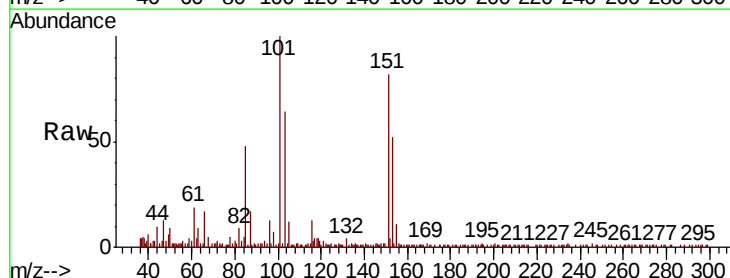
Tot Ion:101 Resp: 1888
Ion Ratio Lower Upper
101 100
103 0.0 52.2 78.4#

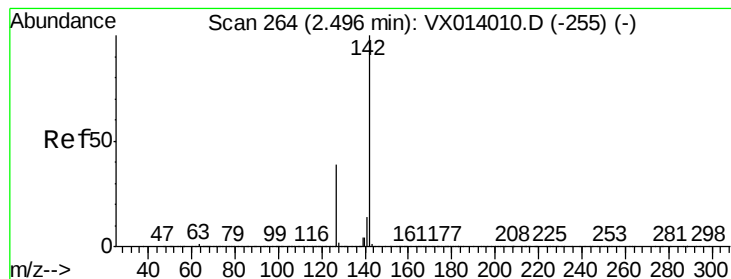


#9

1,1,2-Trichlorotrifluoroethane
Concen: 3.706 ug/l
RT: 2.37 min Scan# 244
Delta R.T. 0.01 min
Lab File: VX014064.D
Acq: 17 Dec 2019 20:06

Tgt Ion:101 Resp: 19729
Ion Ratio Lower Upper
101 100
85 43.6 33.7 50.5
151 82.5 64.5 96.7





#10

Methyl Iodide

Concen: 2.679 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX014064.D

Acq: 17 Dec 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

RE132D2-20191209

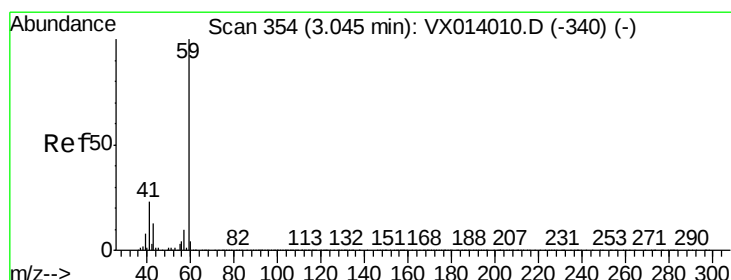
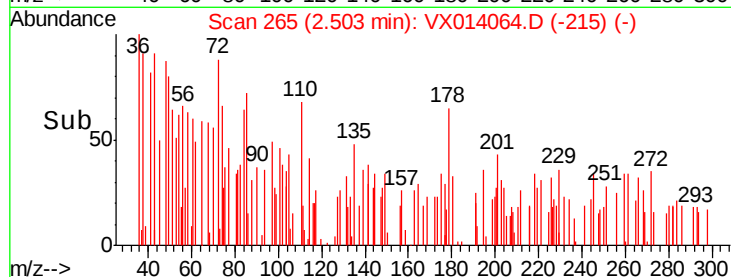
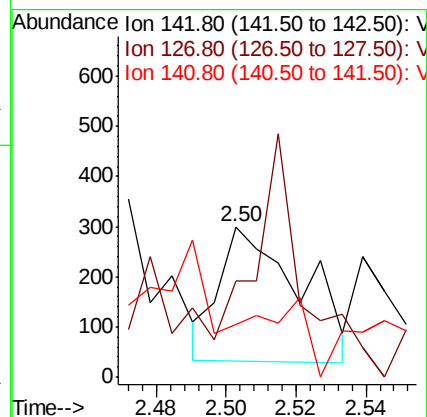
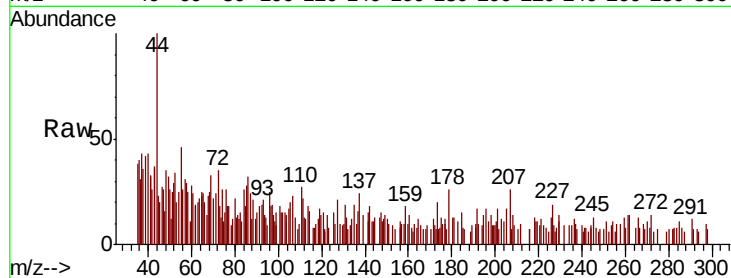
Tot Ion:142 Resp: 432

Ion Ratio Lower Upper

142 100

127 110.6 31.6 47.4#

141 33.1 11.6 17.4#



#11

Tert butyl alcohol

Concen: 0.505 ug/l

RT: 3.06 min Scan# 357

Delta R.T. 0.02 min

Lab File: VX014064.D

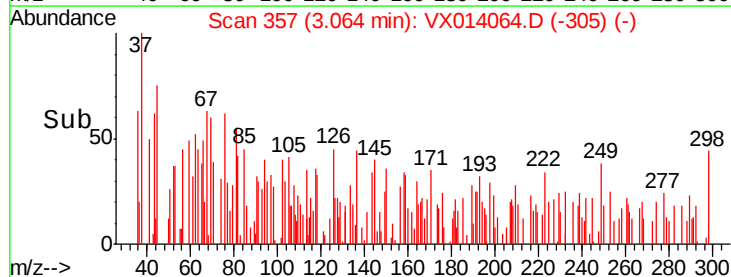
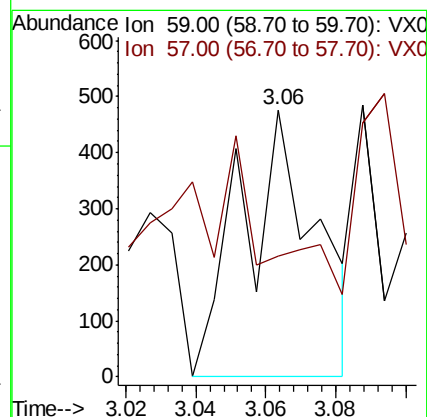
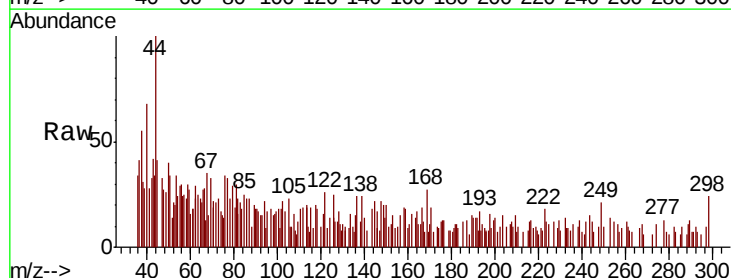
Acq: 17 Dec 2019 20:06

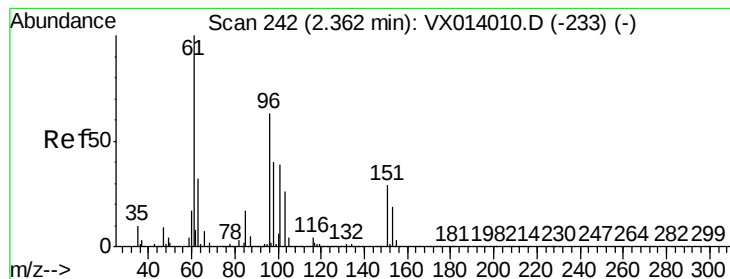
Tgt Ion: 59 Resp: 696

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#





#12

1,1-Dichloroethene

Concen: 0.455 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.01 min

Lab File: VX014064.D

Acq: 17 Dec 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

RE132D2-20191209

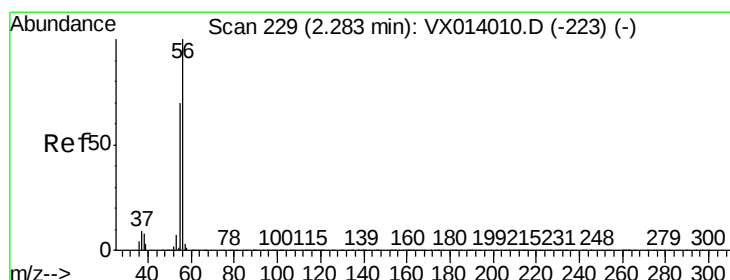
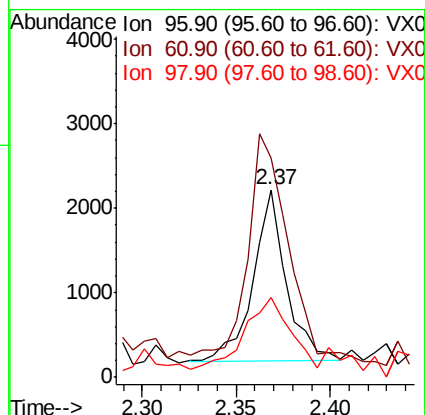
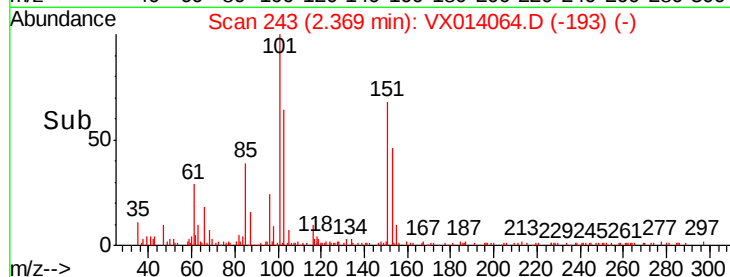
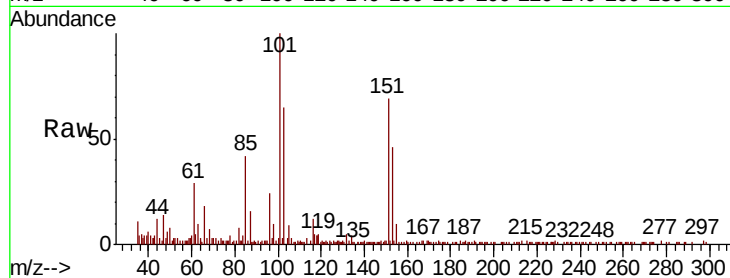
Tot Ion: 96 Resp: 2463

Ion Ratio Lower Upper

96 100

61 115.9 127.9 191.9#

98 42.1 50.5 75.7#



#13

Acrolein

Concen: 0.923 ug/l

RT: 2.31 min Scan# 234

Delta R.T. 0.03 min

Lab File: VX014064.D

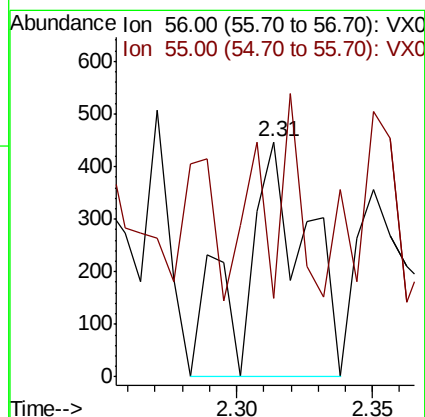
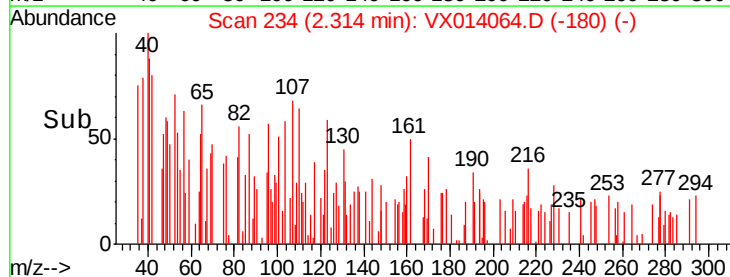
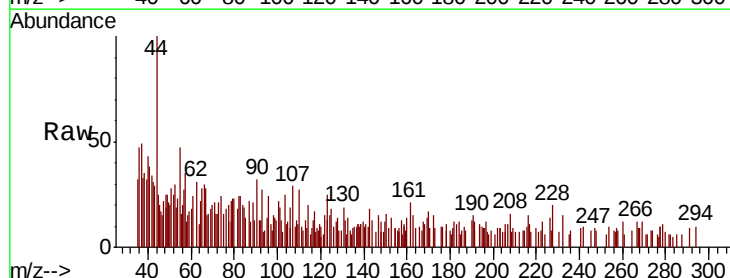
Acq: 17 Dec 2019 20:06

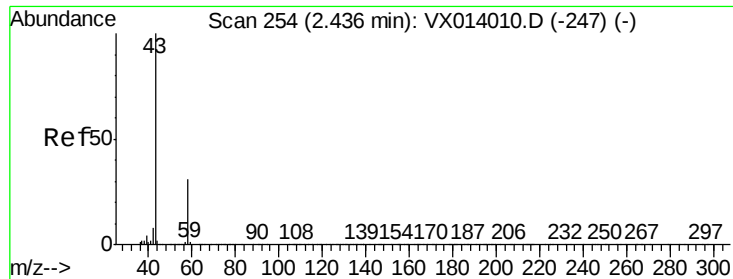
Tgt Ion: 56 Resp: 729

Ion Ratio Lower Upper

56 100

55 22.6 56.9 85.3#





#16

Acetone

Concen: 0.759 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014064.D

Acq: 17 Dec 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

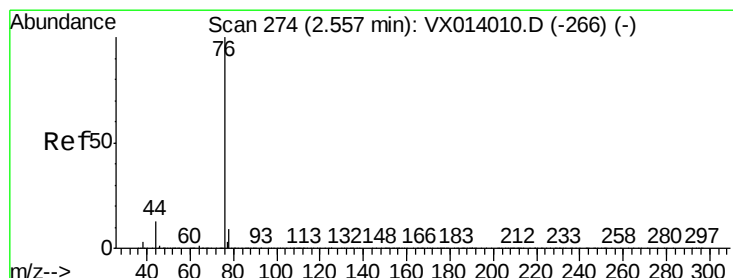
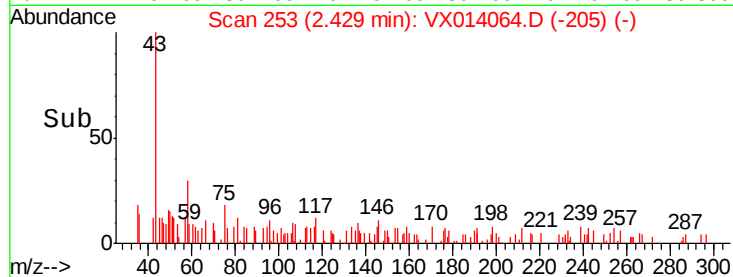
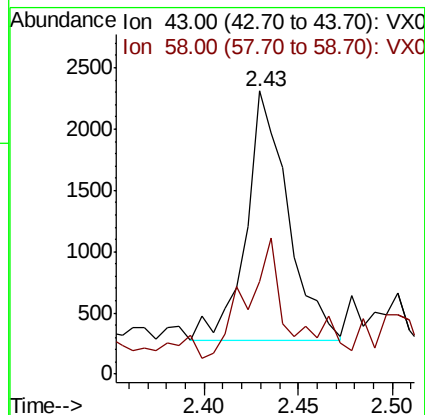
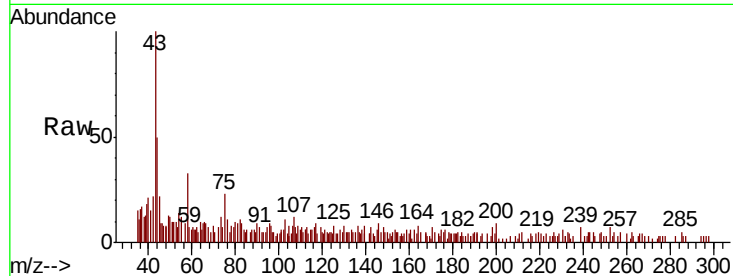
RE132D2-20191209

Tot Ion: 43 Resp: 3143

Ion Ratio Lower Upper

43 100

58 24.7 24.9 37.3#



#17

Carbon Disulfide

Concen: 0.827 ug/l

RT: 2.58 min Scan# 277

Delta R.T. 0.02 min

Lab File: VX014064.D

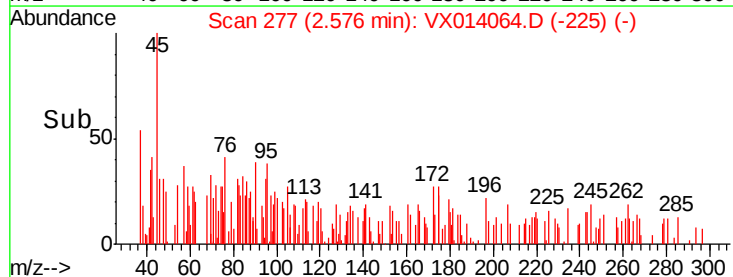
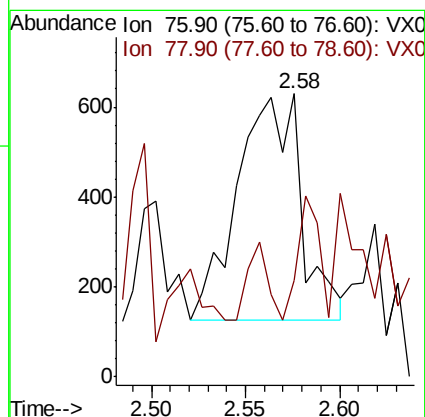
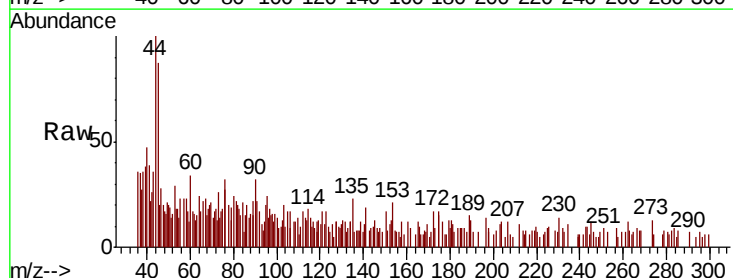
Acq: 17 Dec 2019 20:06

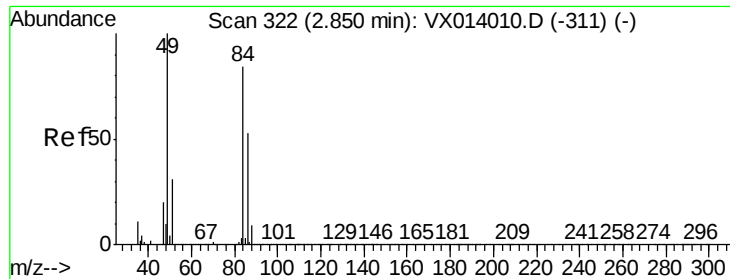
Tgt Ion: 76 Resp: 1175

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#

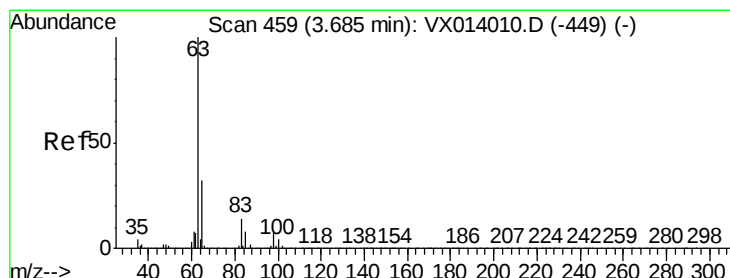
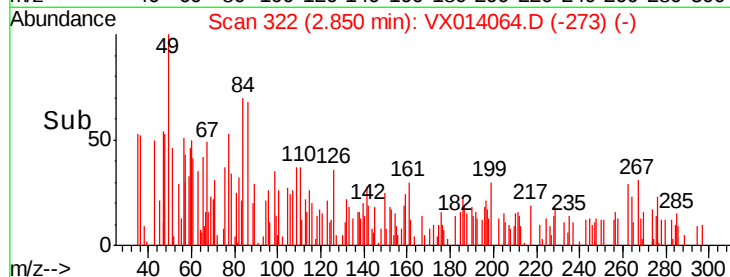
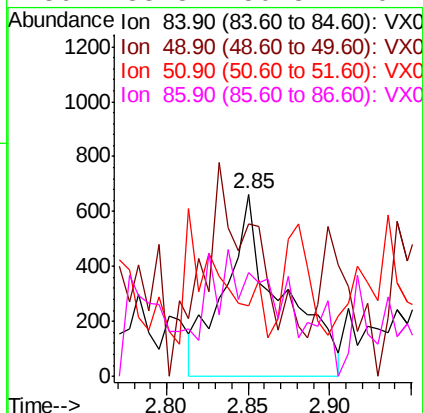
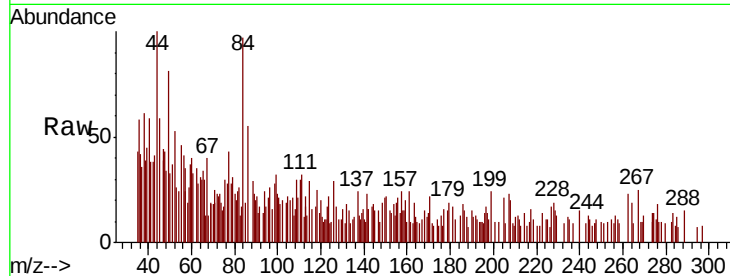




#20
Methvlene Chloride
Concen: 0.242 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014064.D
Acq: 17 Dec 2019 20:06

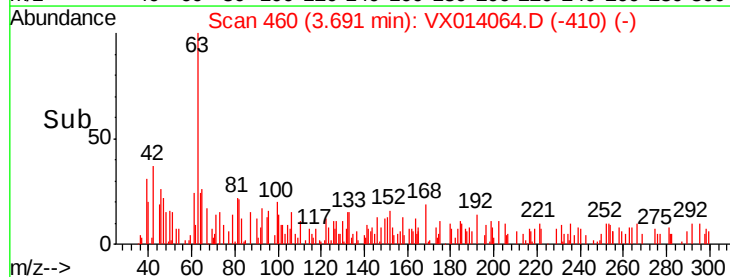
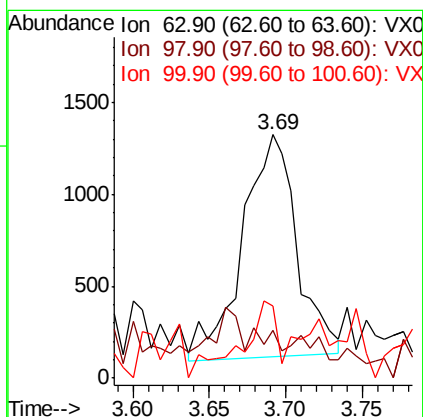
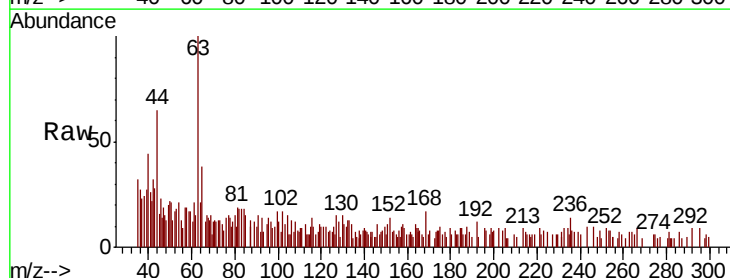
Instrument :
MSVOA_X
ClientSampleId :
RE132D2-20191209

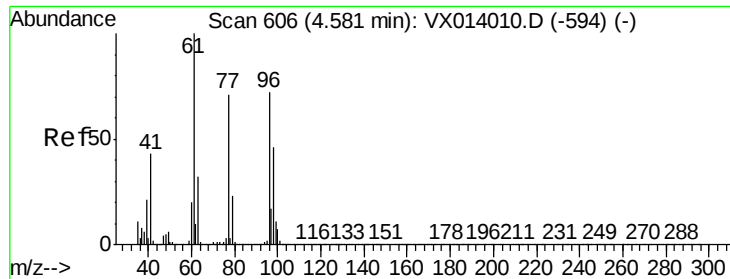
Tot Ion:	84	Resp:	1582
Ion	Ratio	Lower	Upper
84	100		
49	59.5	95.8	143.6#
51	6.1	29.8	44.8#
86	38.8	50.8	76.2#



#24
1,1-Dichloroethane
Concen: 0.280 ug/l
RT: 3.69 min Scan# 460
Delta R.T. 0.01 min
Lab File: VX014064.D
Acq: 17 Dec 2019 20:06

Tgt Ion:	63	Resp:	3002
Ion	Ratio	Lower	Upper
63	100		
98	9.8	3.6	10.8
100	32.9	2.3	6.8#

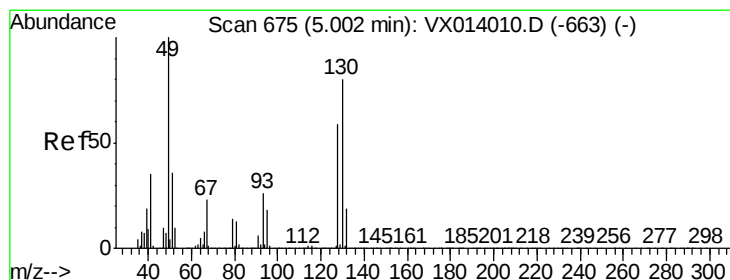
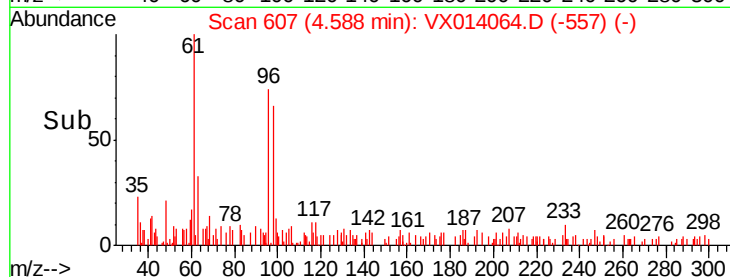
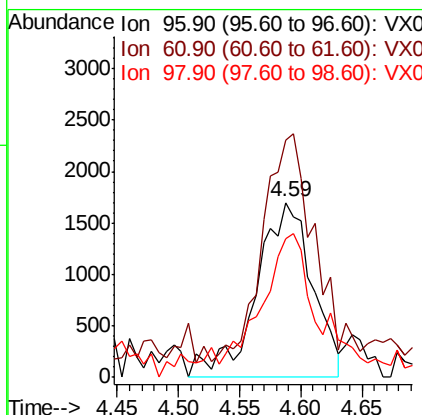
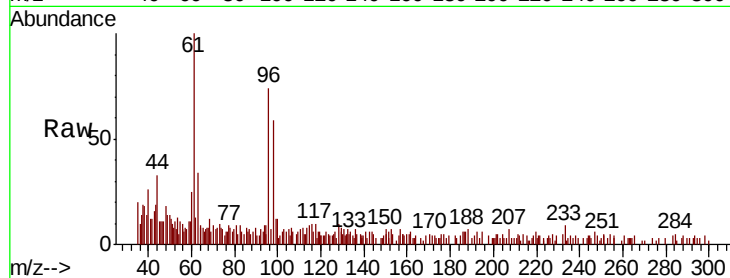




#27
 cis-1,2-Dichloroethene
 Concen: 0.806 ug/l
 RT: 4.59 min Scan# 607
 Delta R.T. 0.01 min
 Lab File: VX014064.D
 Acq: 17 Dec 2019 20:06

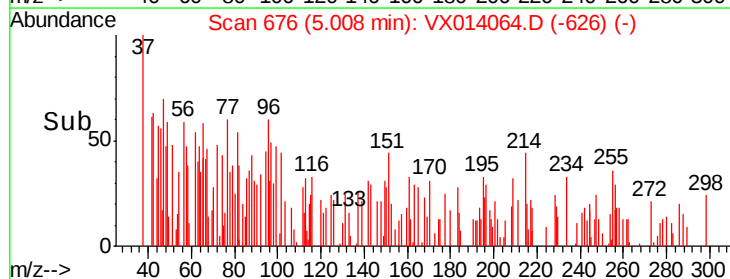
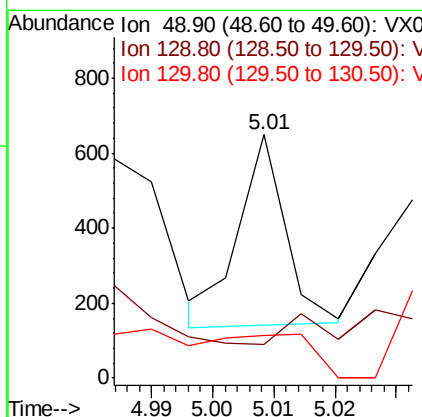
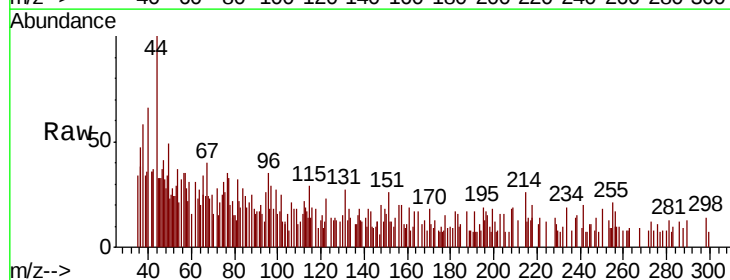
Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D2-20191209

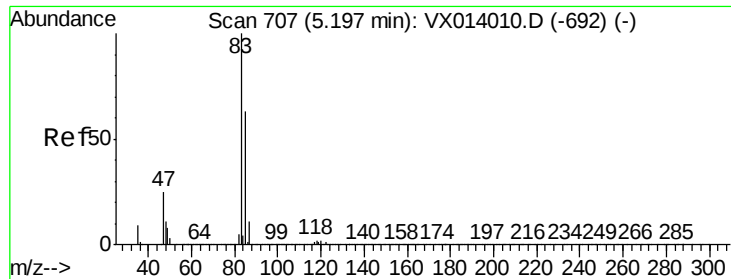
Tot Ion	Ratio	Lower	Upper
96	100		
61	119.8	0.0	288.4
98	75.9	0.0	129.6



#28
 Bromochloromethane
 Concen: 0.518 ug/l
 RT: 5.01 min Scan# 676
 Delta R.T. 0.01 min
 Lab File: VX014064.D
 Acq: 17 Dec 2019 20:06

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	5.0
130	0.0	64.6	97.0#





#30

Chloroform

Concen: 0.221 ug/l

RT: 5.20 min Scan# 707

Delta R.T. 0.00 min

Lab File: VX014064.D

Acq: 17 Dec 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

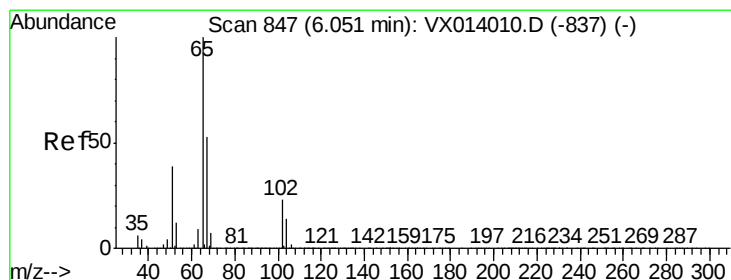
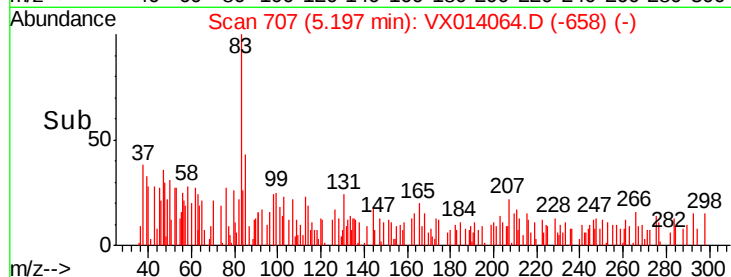
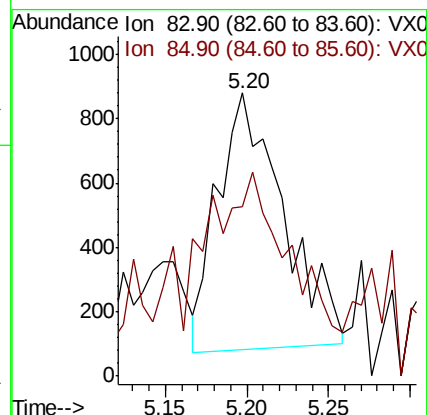
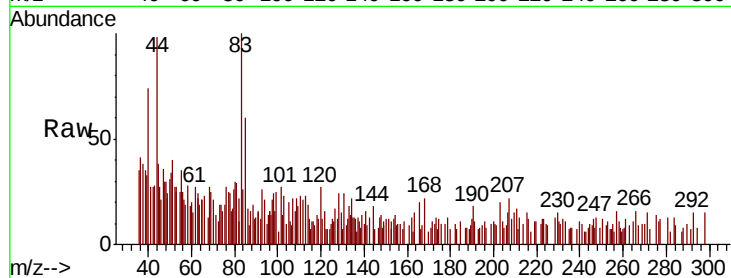
RE132D2-20191209

Tot Ion: 83 Resp: 2246

Ion Ratio Lower Upper

83 100

85 52.1 50.8 76.2



#33

1,2-Dichloroethane-d4

Concen: 49.881 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014064.D

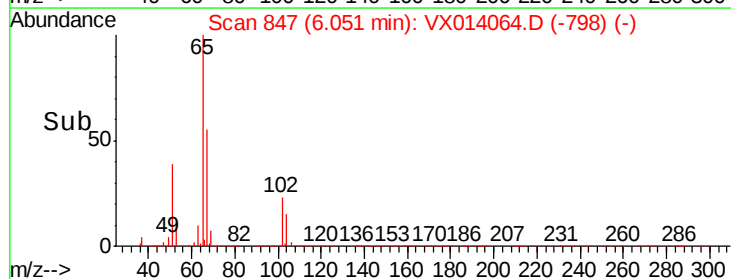
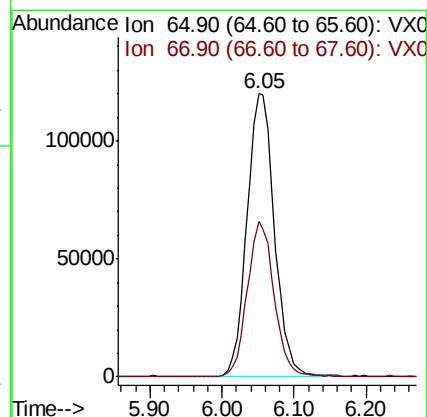
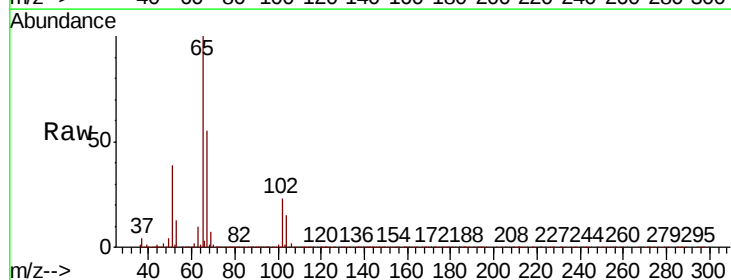
Acq: 17 Dec 2019 20:06

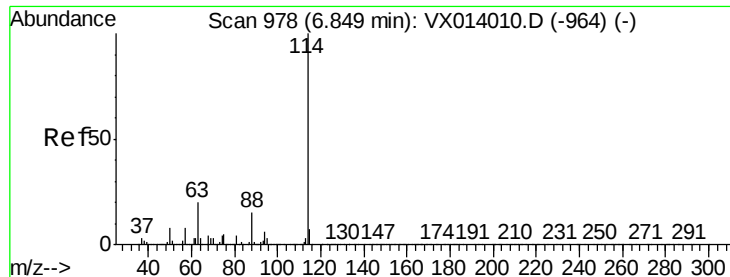
Tgt Ion: 65 Resp: 318358

Ion Ratio Lower Upper

65 100

67 52.9 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: VX014064.D

Acq: 17 Dec 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

RE132D2-20191209

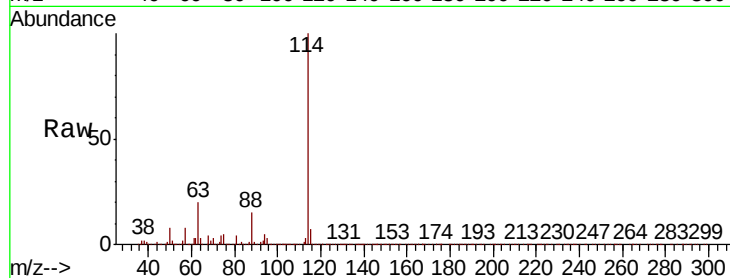
Tot Ion:114 Resp: 866572

Ion Ratio Lower Upper

114 100

63 20.1 0.0 40.8

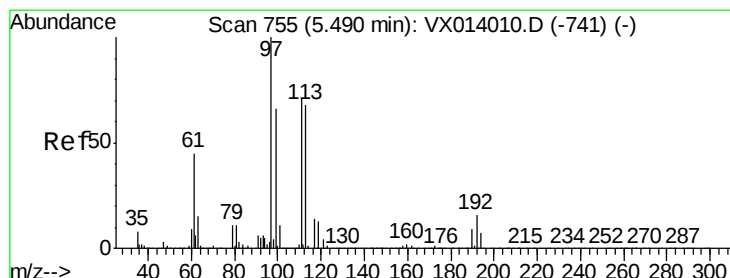
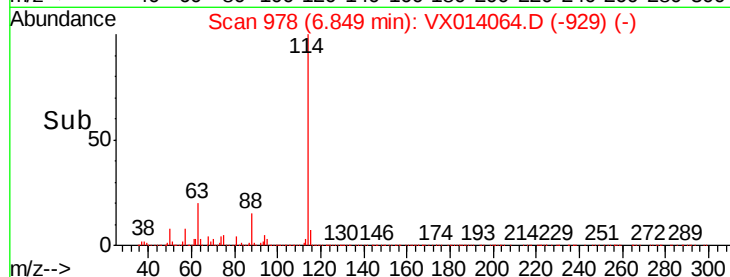
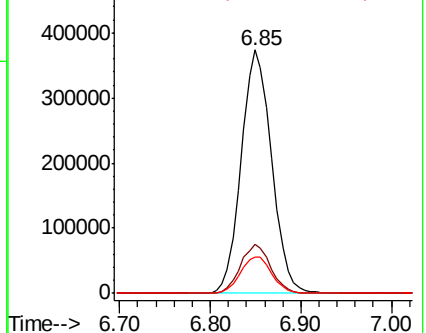
88 14.9 0.0 30.4



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: 49.298 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014064.D

Acq: 17 Dec 2019 20:06

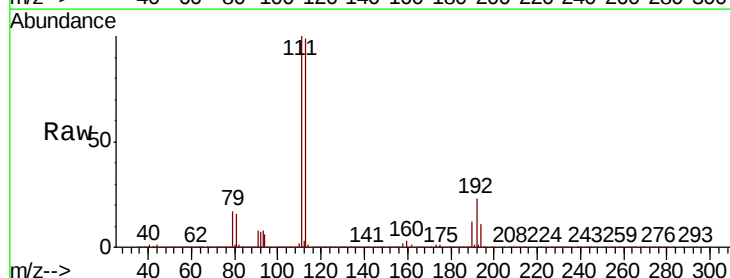
Tgt Ion:113 Resp: 259693

Ion Ratio Lower Upper

113 100

111 102.5 82.0 123.0

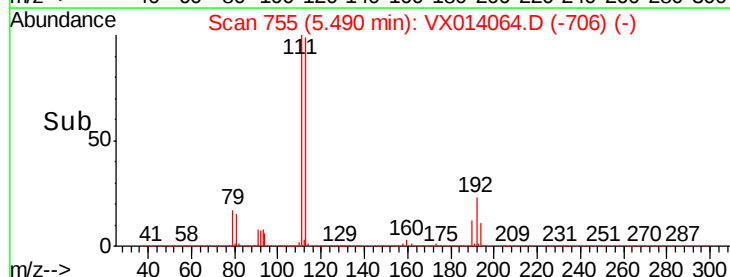
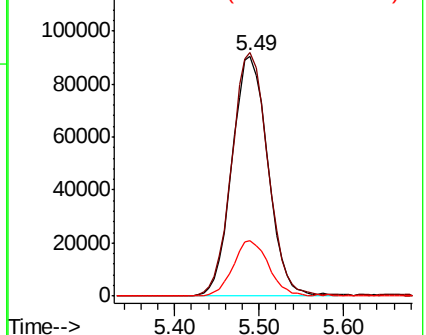
192 23.3 19.3 28.9

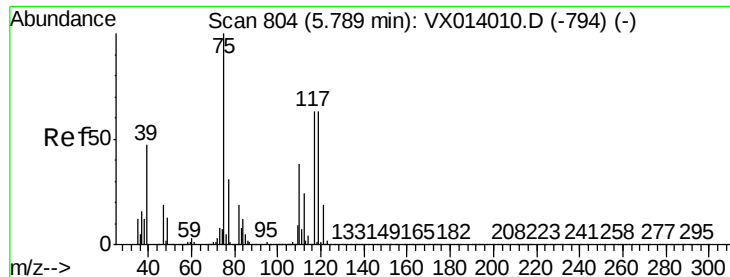


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

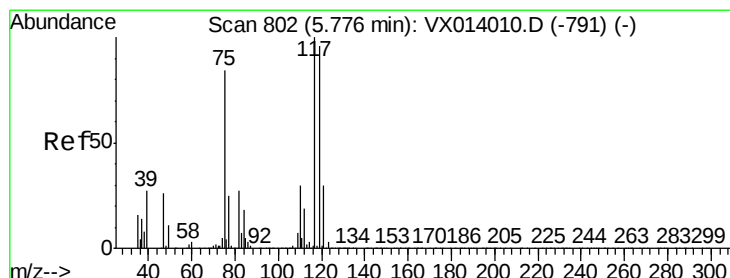
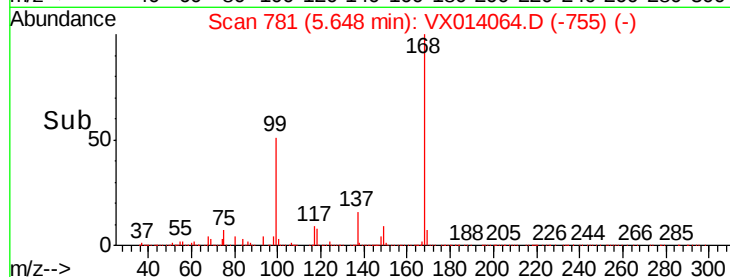
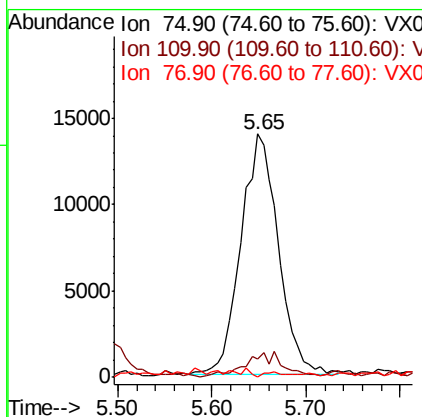
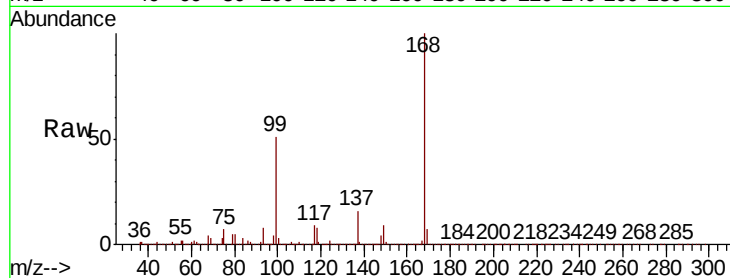




#36
 1,1-Dichloropropene
 Concen: 4.842 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX014064.D
 Acq: 17 Dec 2019 20:06

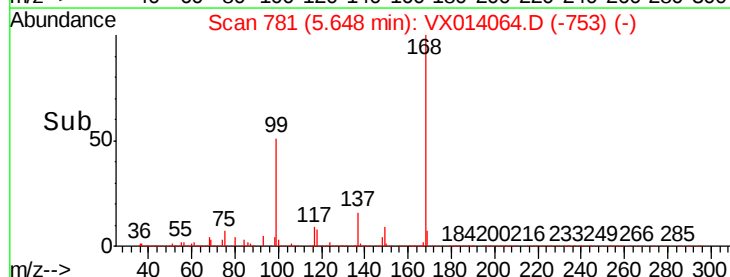
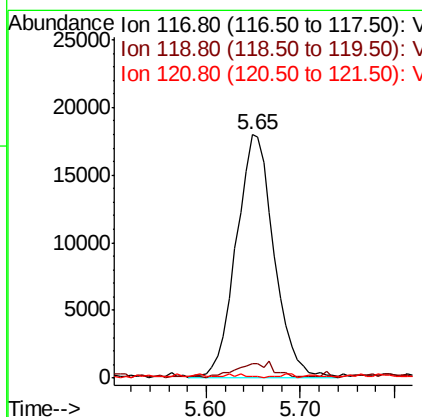
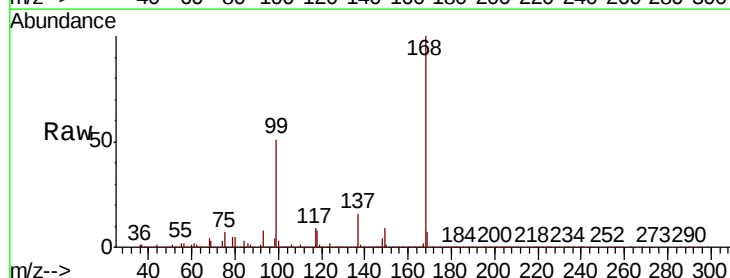
Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D2-20191209

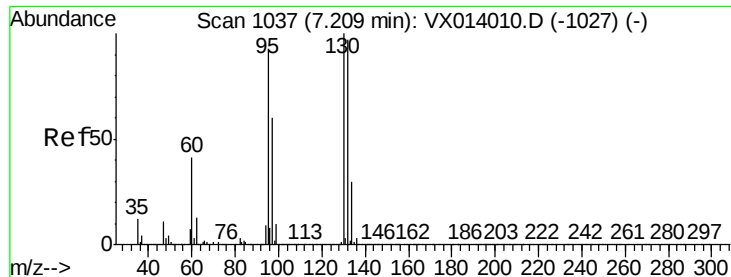
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.0	18.3	54.9#
77	1.2	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.906 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX014064.D
 Acq: 17 Dec 2019 20:06

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.6	76.2	114.4#
121	0.4	23.6	35.4#





#44

Trichloroethene

Concen: 16.911 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.01 min

Lab File: VX014064.D

Acq: 17 Dec 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

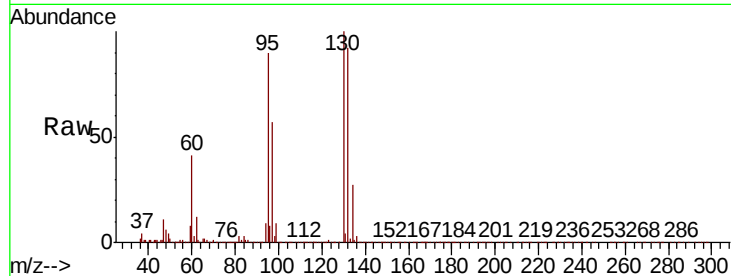
RE132D2-20191209

Tot Ion:130 Resp: 114275

Ion Ratio Lower Upper

130 100

95 89.7 0.0 185.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

60000

50000

40000

30000

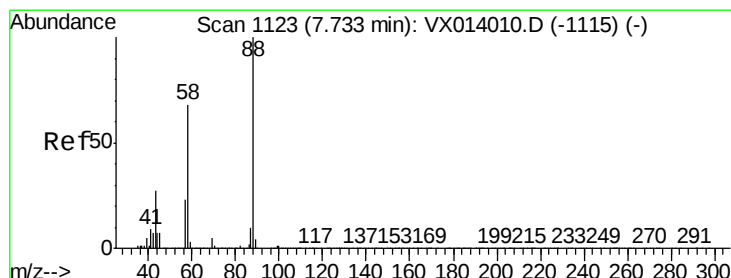
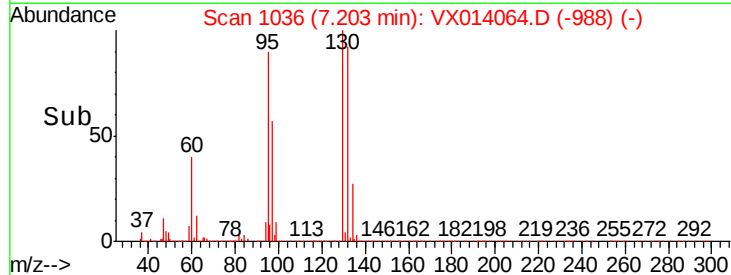
20000

10000

0

7.10 7.15 7.20 7.25 7.30

Time-->



#49

1,4-Dioxane

Concen: 17.327 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX014064.D

Acq: 17 Dec 2019 20:06

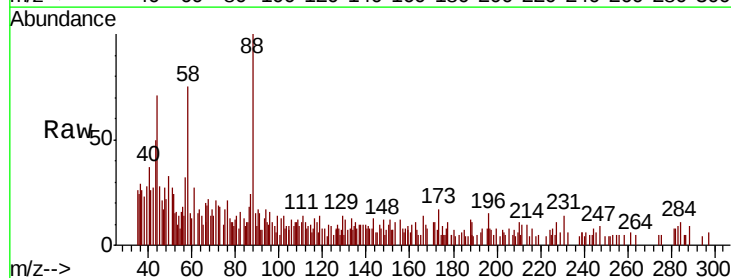
Tgt Ion: 88 Resp: 2509

Ion Ratio Lower Upper

88 100

43 67.0 26.5 39.7#

58 81.3 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

1500

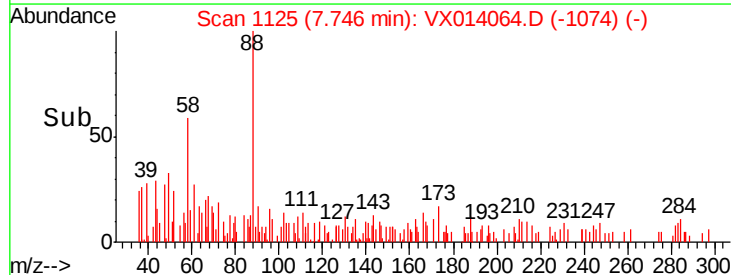
1000

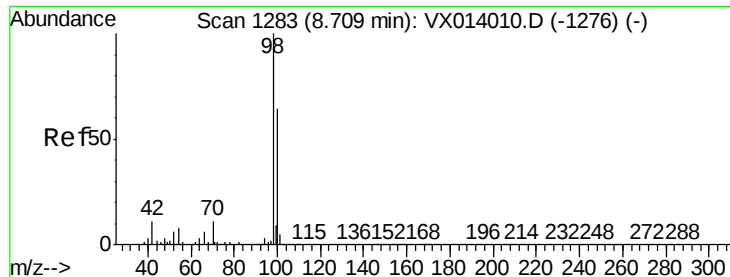
500

0

7.70 7.75 7.80

Time-->





#50

Toluene-d8

Concen: 49.852 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014064.D

Acq: 17 Dec 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

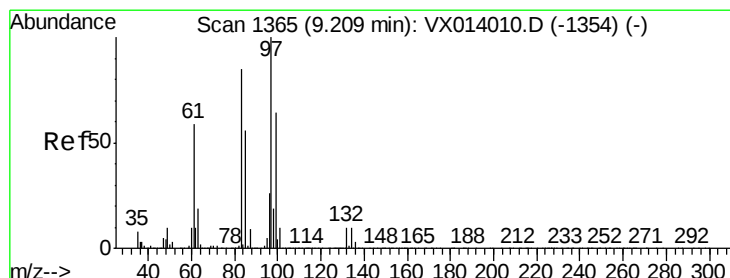
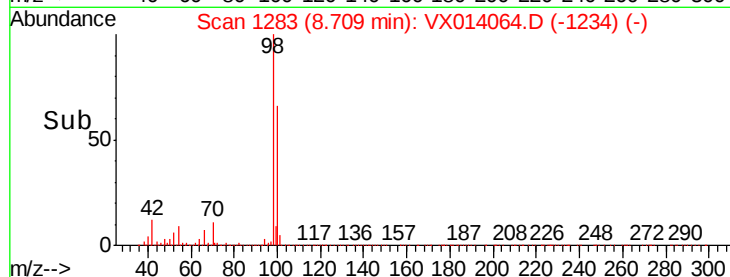
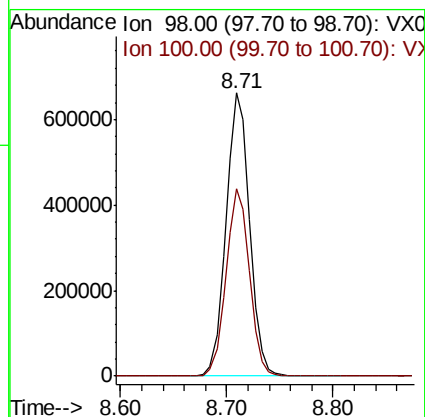
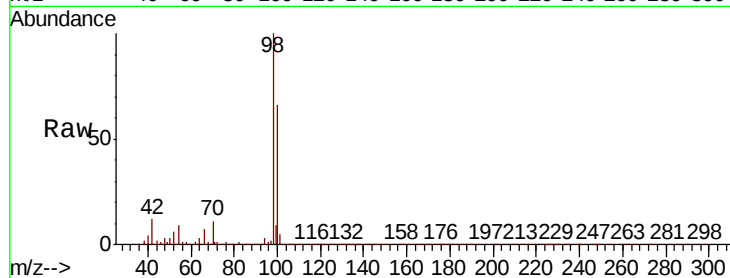
RE132D2-20191209

Tot Ion: 98 Resp: 1022403

Ion Ratio Lower Upper

98 100

100 65.9 52.9 79.3



#55

1,1,2-Trichloroethane

Concen: 0.204 ug/l

RT: 9.21 min Scan# 1365

Delta R.T. 0.00 min

Lab File: VX014064.D

Acq: 17 Dec 2019 20:06

Tgt Ion: 97 Resp: 1262

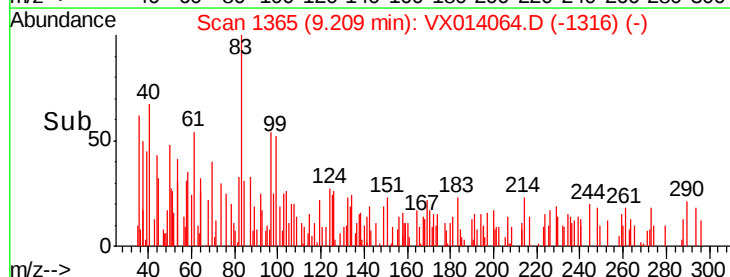
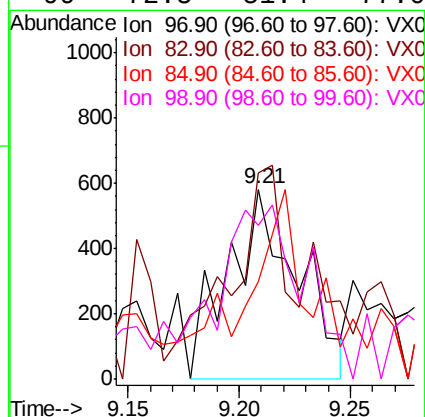
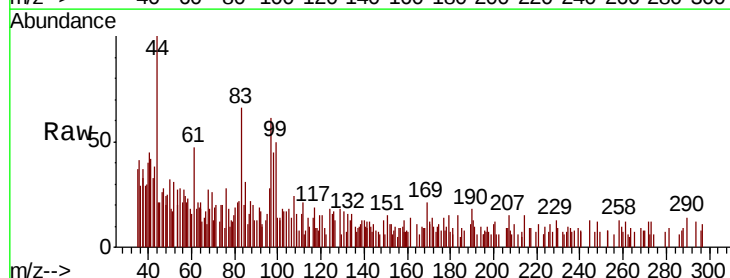
Ion Ratio Lower Upper

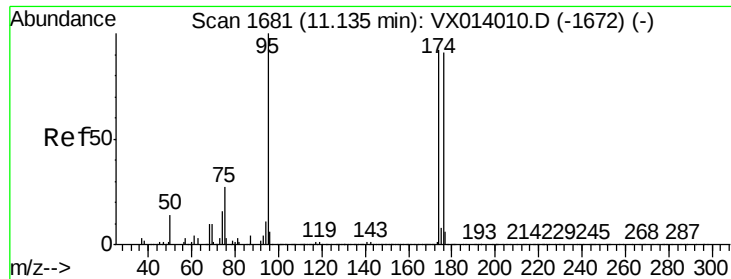
97 100

83 93.9 68.2 102.4

85 43.5 44.6 66.8#

99 72.5 51.4 77.0





#62

4-Bromofluorobenzene

Concen: 44.490 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX014064.D

Acq: 17 Dec 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

RE132D2-20191209

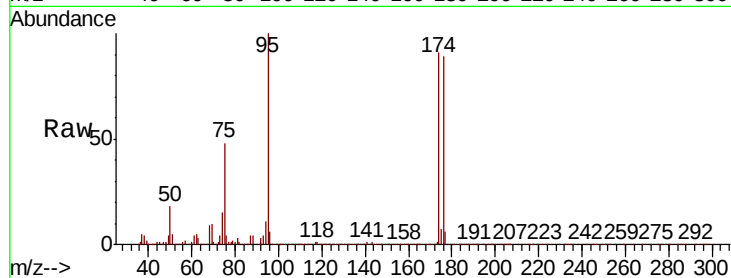
Tot Ion: 95 Resp: 333538

Ion Ratio Lower Upper

95 100

174 88.2 0.0 175.8

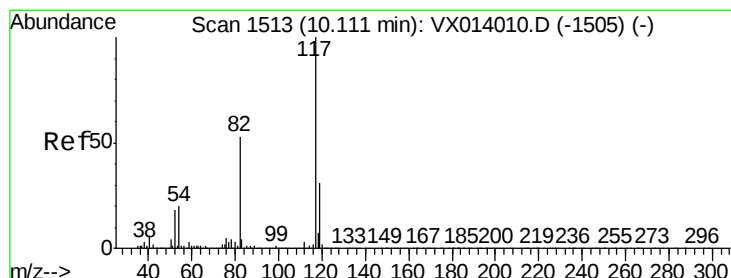
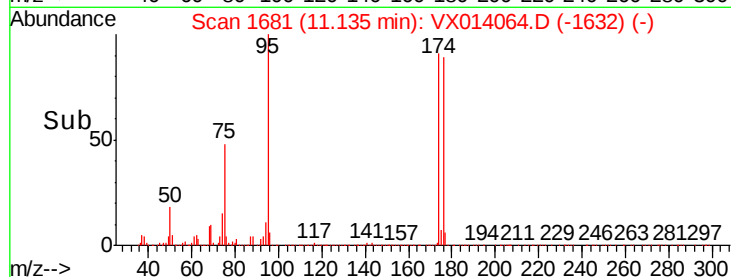
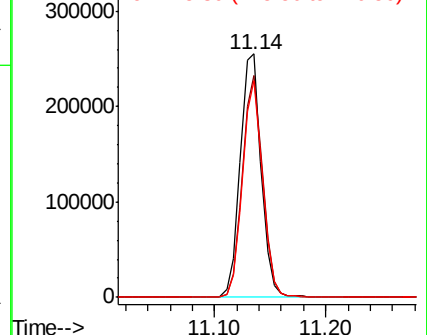
176 85.2 0.0 173.0



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: VX014064.D

Acq: 17 Dec 2019 20:06

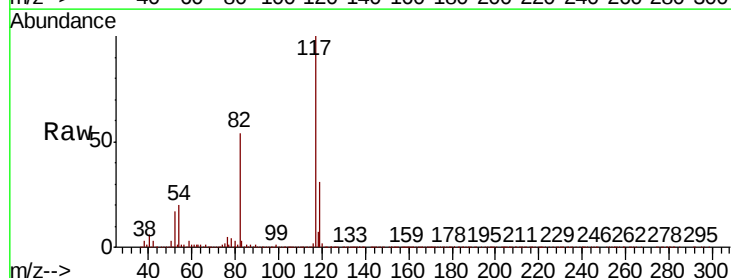
Tgt Ion: 117 Resp: 769480

Ion Ratio Lower Upper

117 100

82 53.7 42.2 63.4

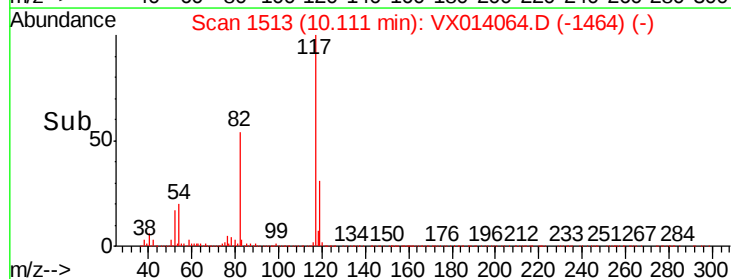
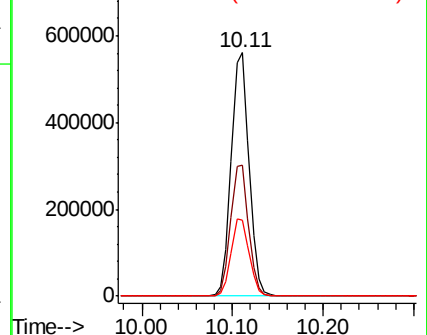
119 31.2 25.1 37.7

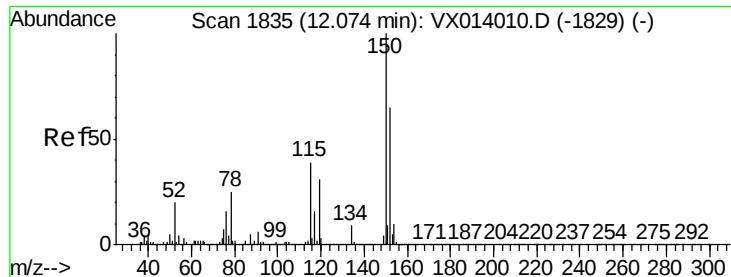


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014064.D

Acq: 17 Dec 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

RE132D2-20191209

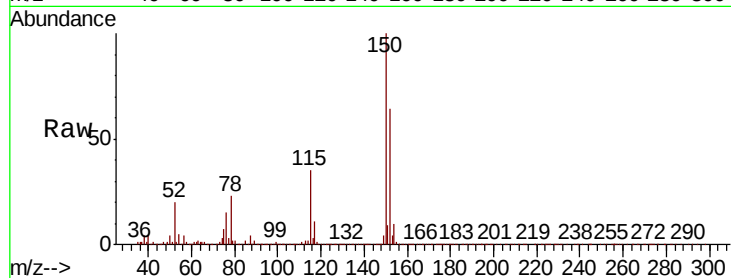
Tot Ion:152 Resp: 323523

Ion Ratio Lower Upper

152 100

115 55.0 38.3 114.9

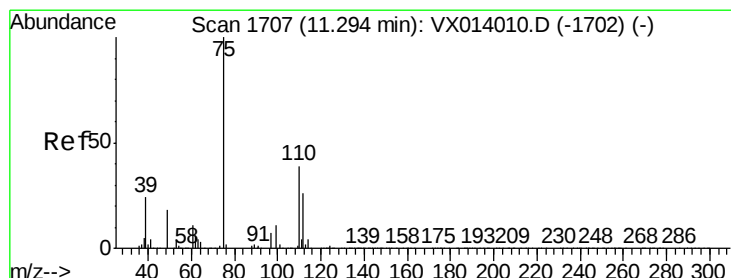
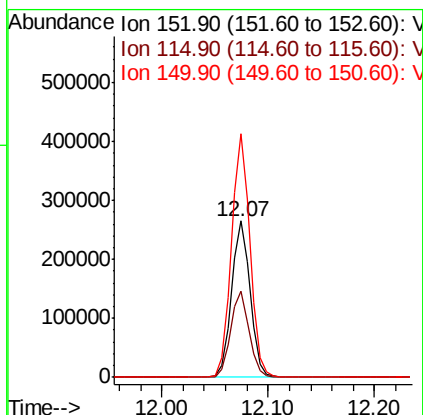
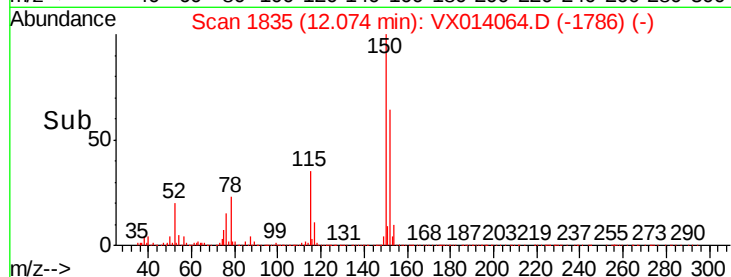
150 155.6 0.0 345.4



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



#76

1,2,3-Trichloropropane

Concen: 23.285 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014064.D

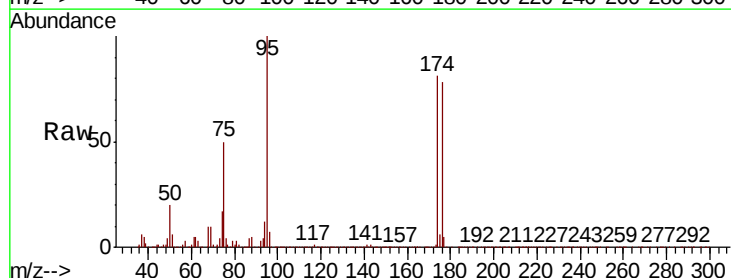
Acq: 17 Dec 2019 20:06

Tgt Ion: 75 Resp: 163548

Ion Ratio Lower Upper

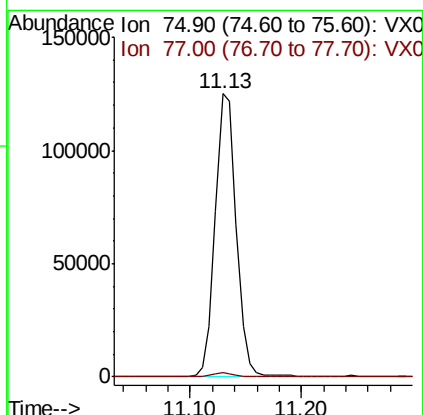
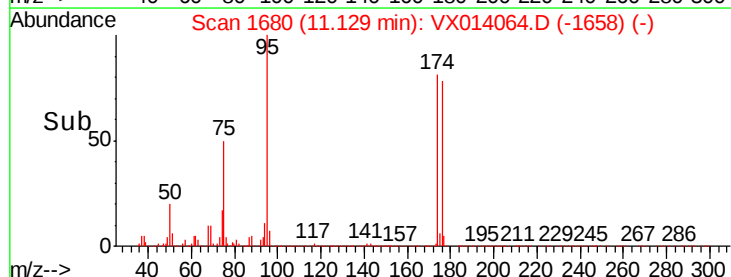
75 100

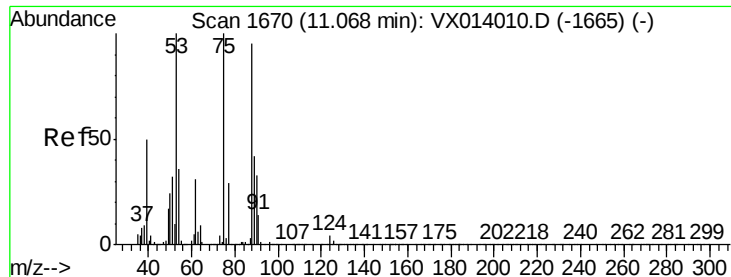
77 1.7 19.3 57.8#



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: 65.724 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014064.D

Acq: 17 Dec 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

RE132D2-20191209

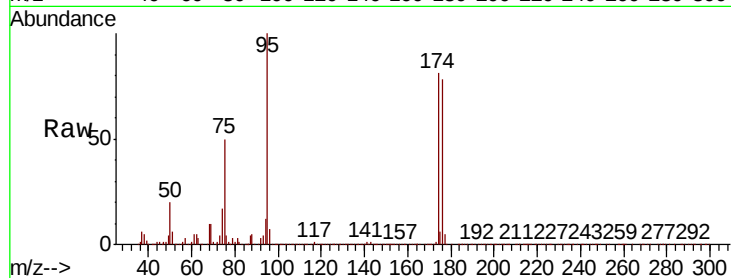
Tot Ion: 75 Resp: 163548

Ion Ratio Lower Upper

75 100

53 0.0 76.7 115.1#

89 0.4 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

