

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120619\
 Data File : VX013826.D
 Acq On : 07 Dec 2019 02:21
 Operator : JC/SP
 Sample : K6185-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE125D2-20191205

Quant Time: Dec 07 02:48:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	621837	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	942737	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	847265	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	366104	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.05	65	342884	47.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.00%	
35) Dibromofluoromethane	5.49	113	281260	48.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.52%	
50) Toluene-d8	8.71	98	1125637	49.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.14%	
62) 4-Bromofluorobenzene	11.14	95	367018	44.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.64%	

Target Compounds

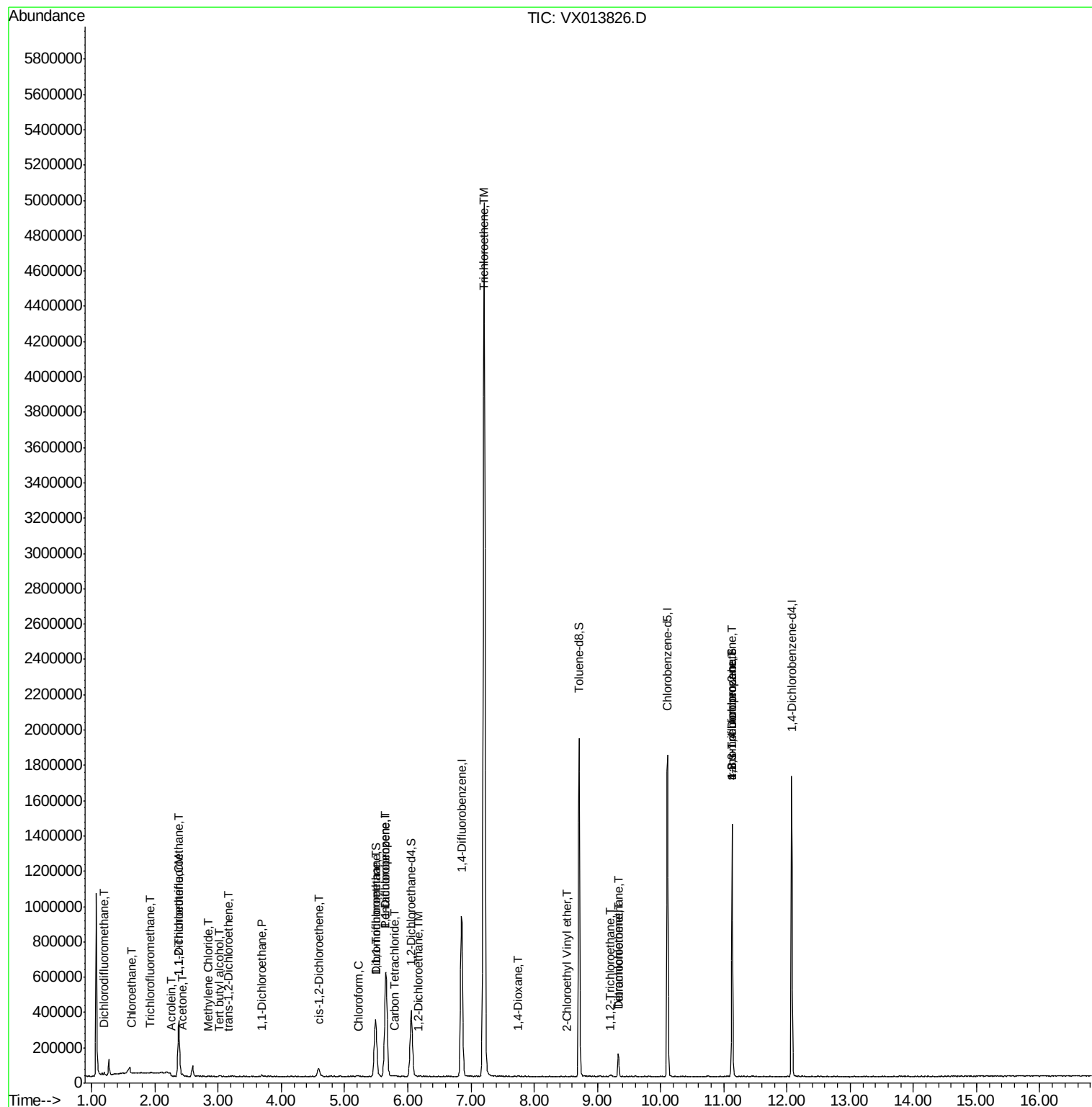
						Qvalue
2) Dichlorodifluoromethane	1.19	85	3485	0.504	ug/l	94
6) Chloroethane	1.62	64	2424	0.487	ug/l #	46
7) Trichlorofluoromethane	1.92	101	2916	0.300	ug/l #	82
9) 1,1,2-Trichlorotrifluoroet	2.38	101	101948	17.196	ug/l	98
11) Tert butyl alcohol	3.03	59	2658	1.492	ug/l #	73
12) 1,1-Dichloroethene	2.37	96	32813	5.545	ug/l	87
13) Acrolein	2.26	56	188	6.158	ug/l #	1
16) Acetone	2.43	43	9004	2.527	ug/l	94
20) Methylene Chloride	2.84	84	1660	0.242	ug/l #	55
21) trans-1,2-Dichloroethene	3.15	96	1474	0.229	ug/l #	68
24) 1,1-Dichloroethane	3.69	63	8090	0.716	ug/l #	85
27) cis-1,2-Dichloroethene	4.59	96	30178	4.076	ug/l	89
30) Chloroform	5.22	83	5853	0.511	ug/l #	55
32) 1,1,1-Trichloroethane	5.50	97	3272	0.342	ug/l #	23
36) 1,1-Dichloropropene	5.65	75	42625	4.981	ug/l #	53
38) Carbon Tetrachloride	5.78	117	4290	0.544	ug/l #	91
42) 1,2-Dichloroethane	6.17	62	2810	0.316	ug/l	90
44) Trichloroethene	7.21	130	1974224	275.994	ug/l	97
49) 1,4-Dioxane	7.74	88	4342	25.260	ug/l #	90
55) 1,1,2-Trichloroethane	9.21	97	2633	0.404	ug/l #	82
58) 2-Chloroethyl Vinyl ether	8.51	63	834	0.203	ug/l	99
60) Dibromochloromethane	9.33	129	22112	3.265	ug/l #	12
64) Tetrachloroethene	9.33	164	27122	4.293	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	179007	21.739	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	179007	59.474	ug/l #	11

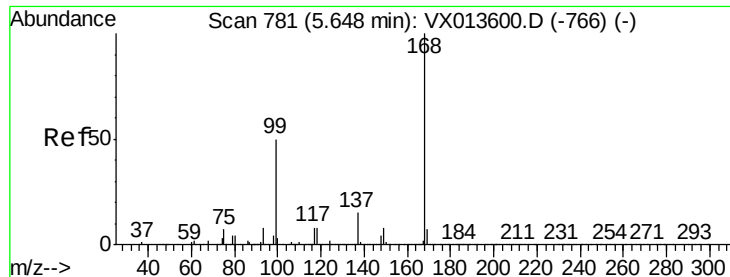
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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 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: VX013826.D

Acq: 07 Dec 2019 02:21

Instrument :

MSVOA_X

ClientSampleId :

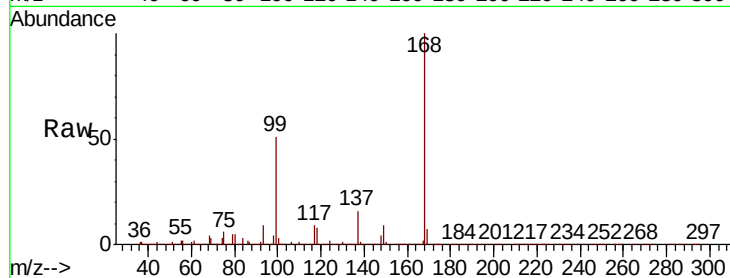
RE125D2-20191205

Tot Ion:168 Resp: 621837

Ion Ratio Lower Upper

168 100

99 50.8 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

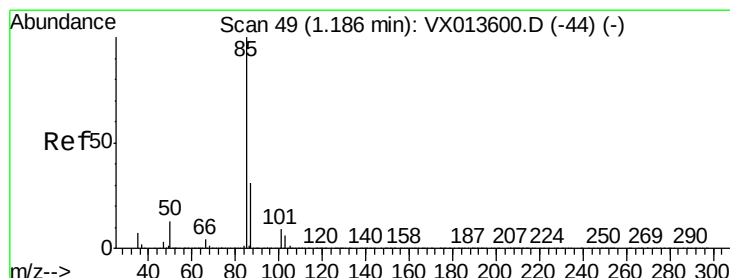
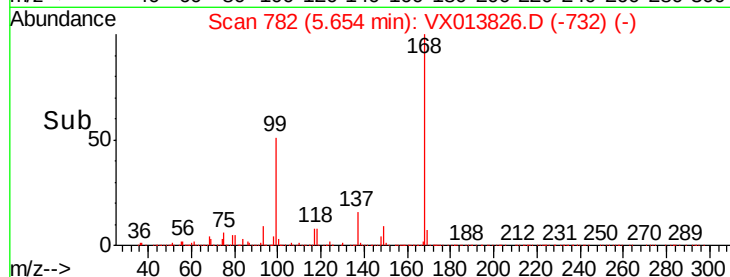
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.504 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.01 min

Lab File: VX013826.D

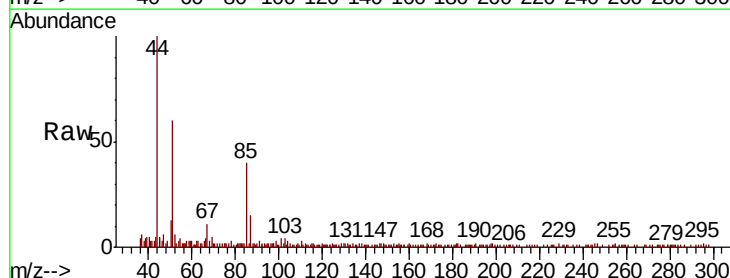
Acq: 07 Dec 2019 02:21

Tgt Ion: 85 Resp: 3485

Ion Ratio Lower Upper

85 100

87 34.9 15.7 47.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

4000

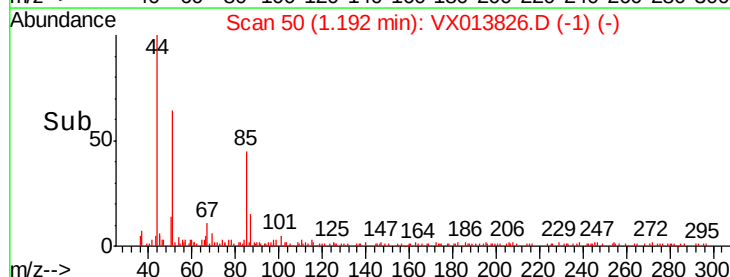
3000

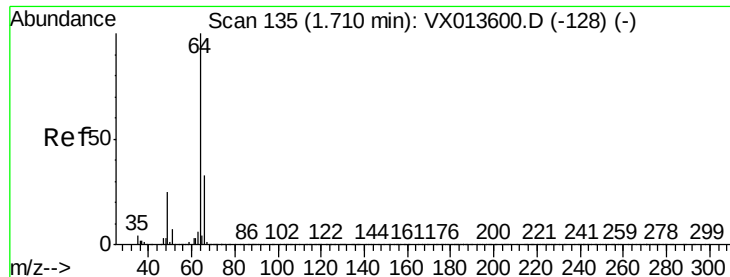
2000

1000

0

Time-->





#6

Chloroethane

Concen: 0.487 ug/l

RT: 1.62 min Scan# 121

Delta R.T. -0.09 min

Lab File: VX013826.D

Acq: 07 Dec 2019 02:21

Instrument :

MSVOA_X

ClientSampleId :

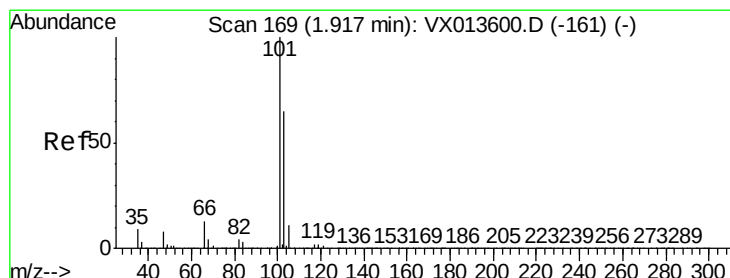
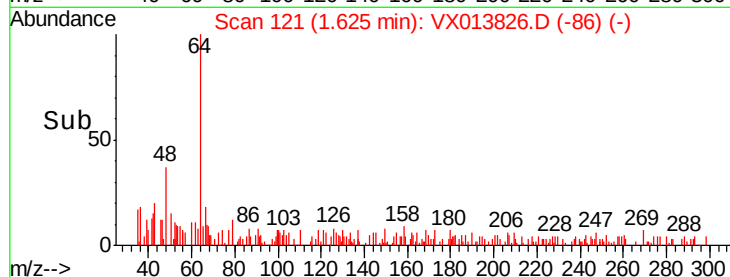
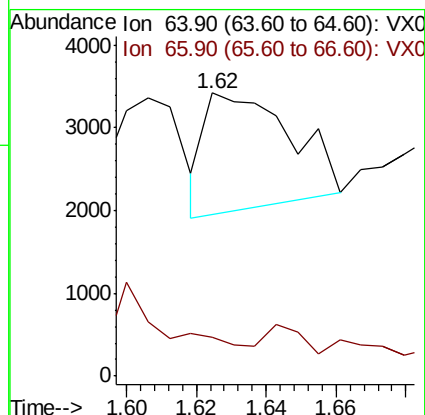
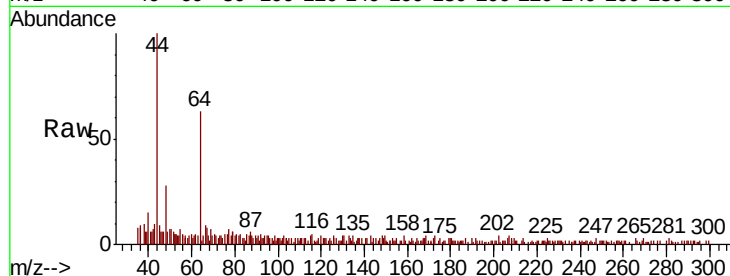
RE125D2-20191205

Tot Ion: 64 Resp: 2424

Ion Ratio Lower Upper

64 100

66 2.5 26.7 40.1#



#7

Trichlorofluoromethane

Concen: 0.300 ug/l

RT: 1.92 min Scan# 170

Delta R.T. 0.01 min

Lab File: VX013826.D

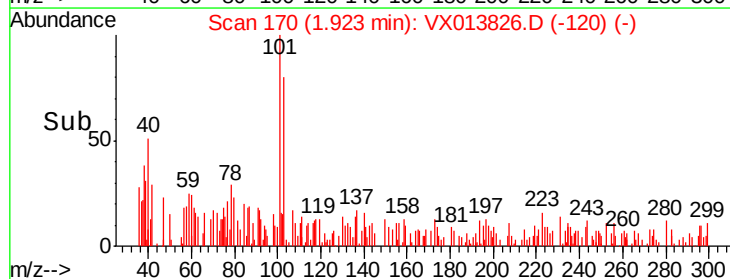
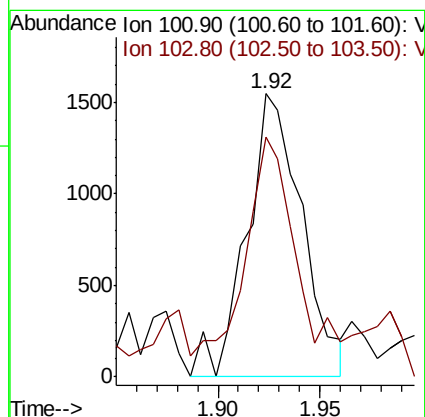
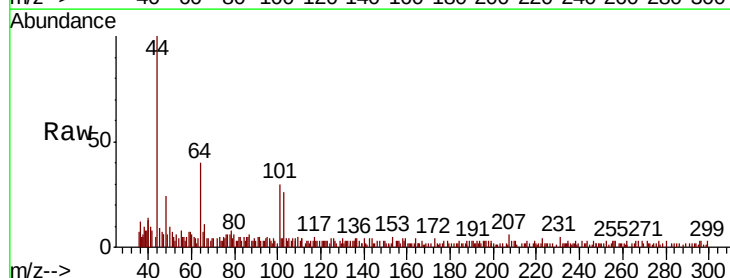
Acq: 07 Dec 2019 02:21

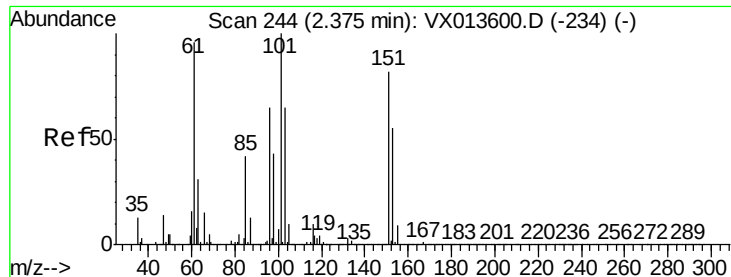
Tgt Ion: 101 Resp: 2916

Ion Ratio Lower Upper

101 100

103 78.8 51.8 77.6#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 17.196 ug/l

RT: 2.38 min Scan# 245

Delta R.T. 0.01 min

Lab File: VX013826.D

Acq: 07 Dec 2019 02:21

Instrument :

MSVOA_X

ClientSampleId :

RE125D2-20191205

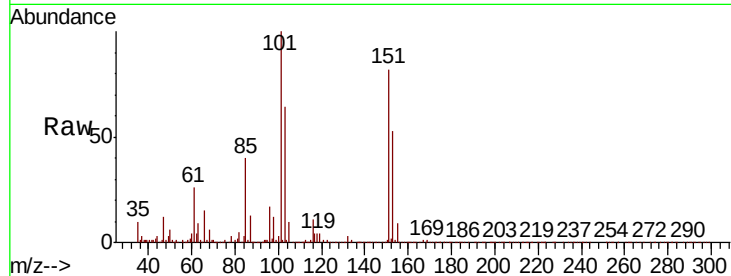
Tot Ion:101 Resp: 101948

Ion Ratio Lower Upper

101 100

85 42.4 33.9 50.9

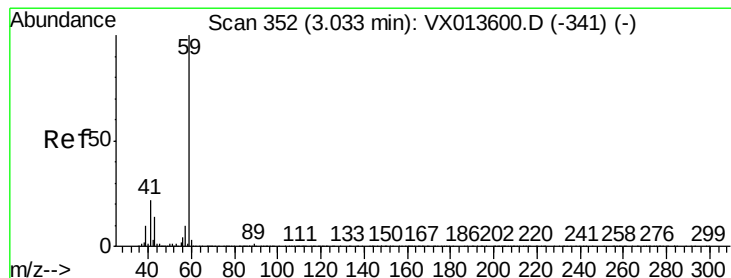
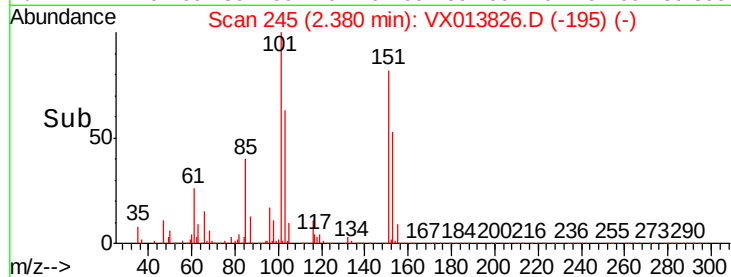
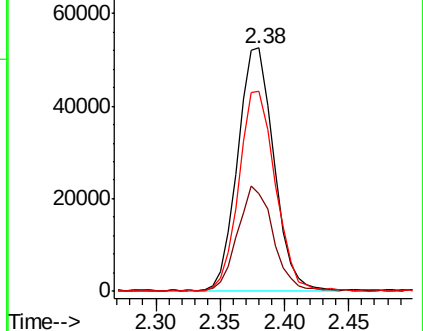
151 82.6 64.2 96.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 1.492 ug/l

RT: 3.03 min Scan# 351

Delta R.T. -0.01 min

Lab File: VX013826.D

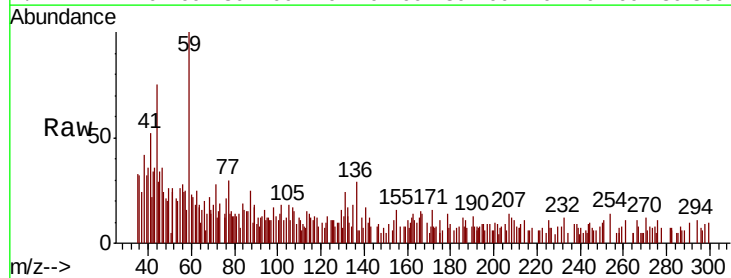
Acq: 07 Dec 2019 02:21

Tgt Ion: 59 Resp: 2658

Ion Ratio Lower Upper

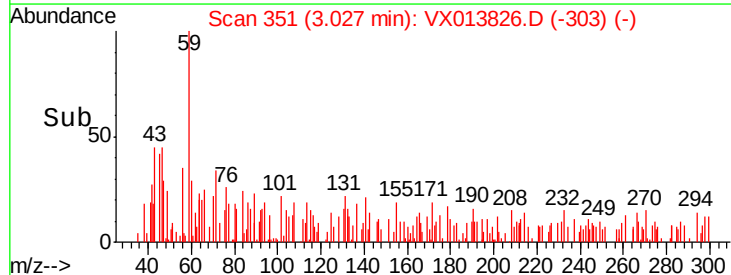
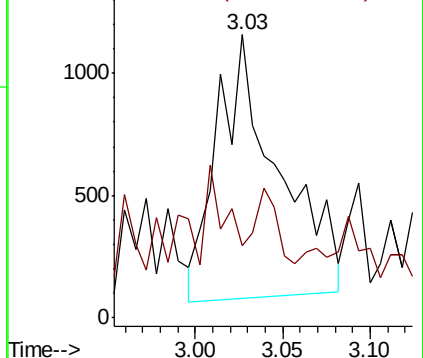
59 100

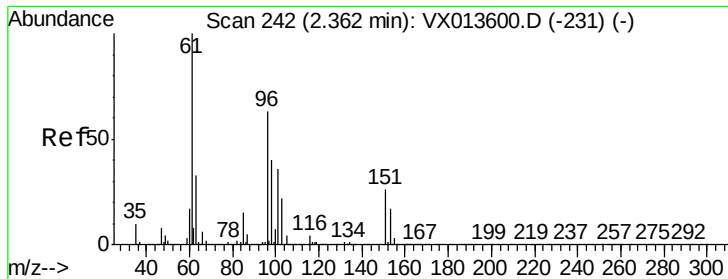
57 19.5 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 5.545 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.01 min

Lab File: VX013826.D

Acq: 07 Dec 2019 02:21

Instrument :

MSVOA_X

ClientSampleId :

RE125D2-20191205

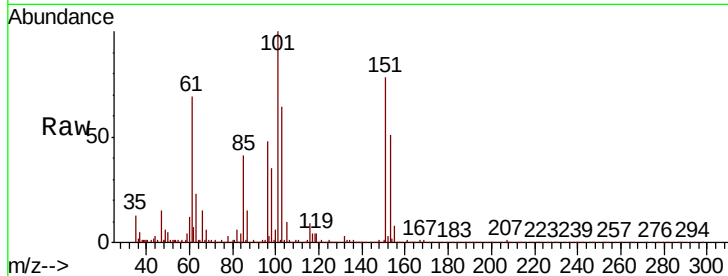
Tot Ion: 96 Resp: 32813

Ion Ratio Lower Upper

96 100

61 141.3 126.6 190.0

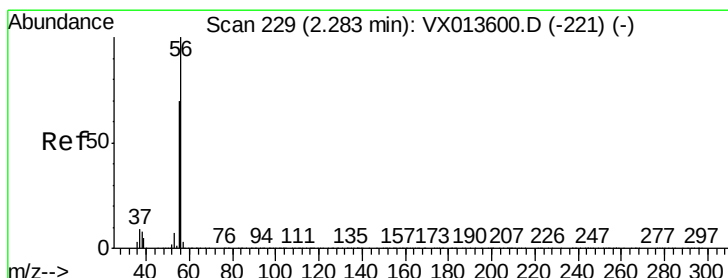
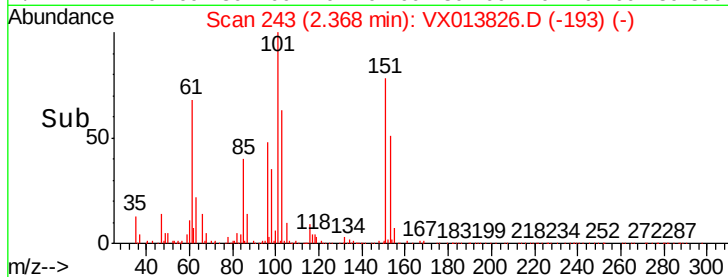
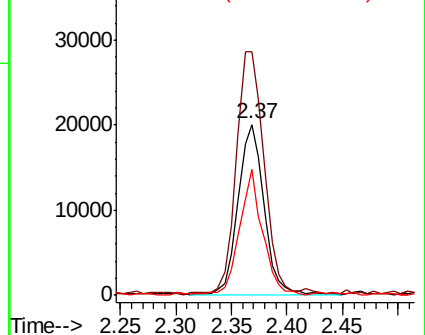
98 72.8 50.6 76.0



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 6.158 ug/l

RT: 2.26 min Scan# 226

Delta R.T. -0.02 min

Lab File: VX013826.D

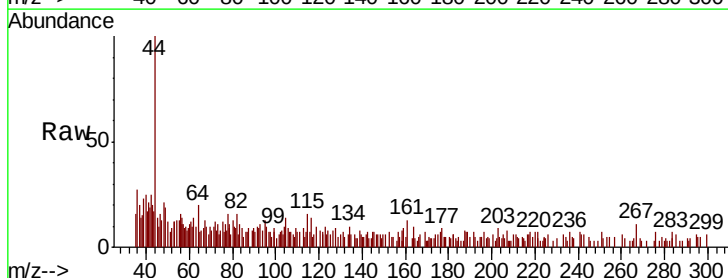
Acq: 07 Dec 2019 02:21

Tgt Ion: 56 Resp: 188

Ion Ratio Lower Upper

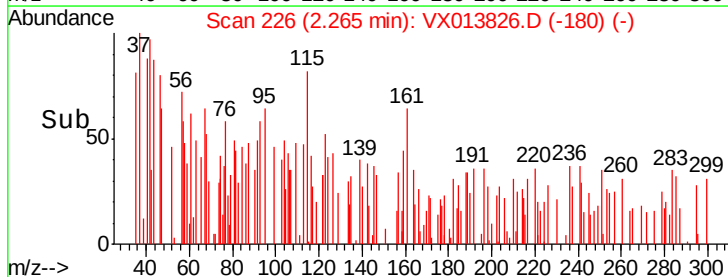
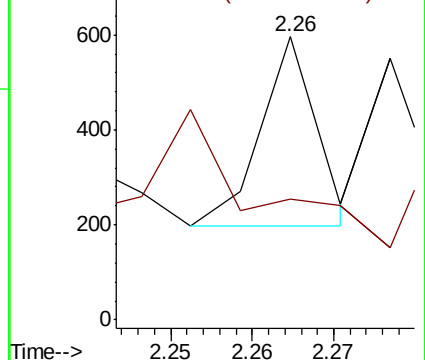
56 100

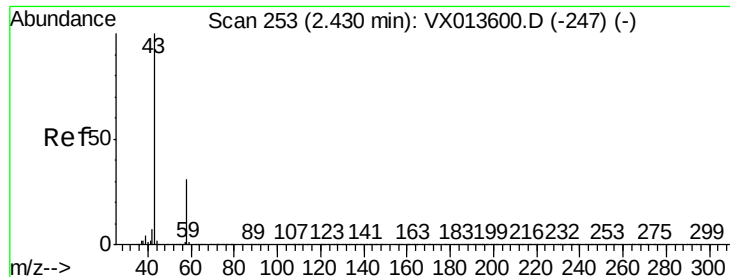
55 170.7 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

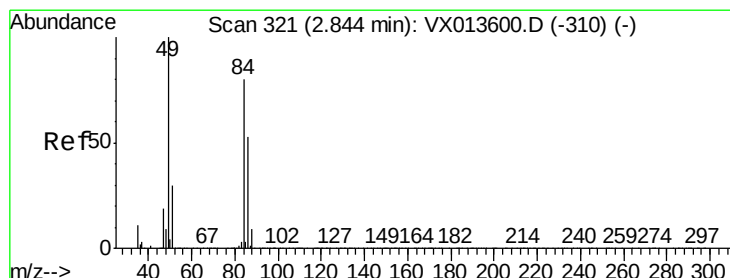
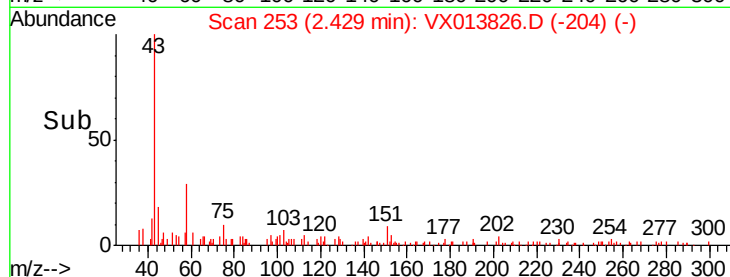
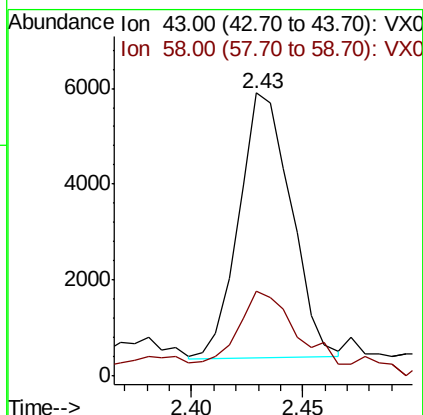
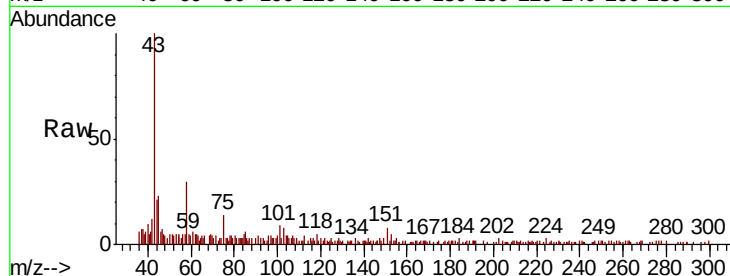




#16
Acetone
Concen: 2.527 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.00 min
Lab File: VX013826.D
Acq: 07 Dec 2019 02:21

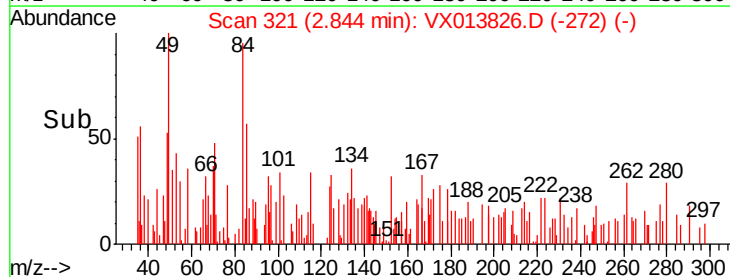
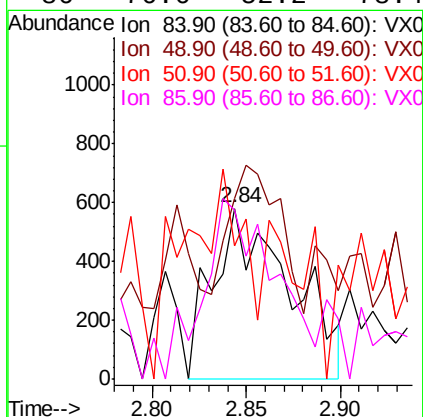
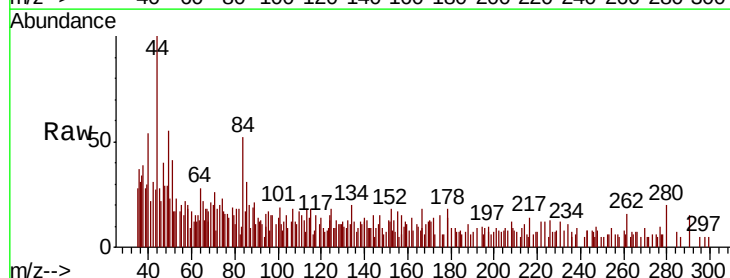
Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20191205

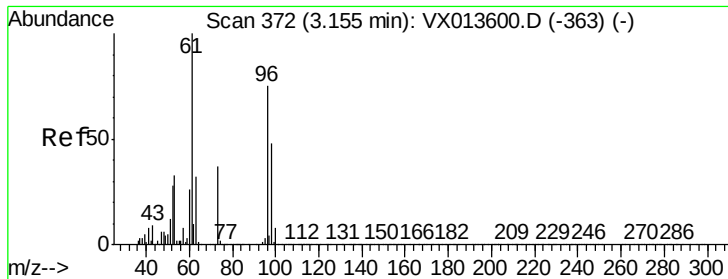
Tot Ion: 43 Resp: 9004
Ion Ratio Lower Upper
43 100
58 27.6 24.6 36.8



#20
Methylene Chloride
Concen: 0.242 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.00 min
Lab File: VX013826.D
Acq: 07 Dec 2019 02:21

Tgt Ion: 84 Resp: 1660
Ion Ratio Lower Upper
84 100
49 54.2 99.7 149.5#
51 11.7 29.9 44.9#
86 76.6 52.2 78.4





#21

trans-1,2-Dichloroethene

Concen: 0.229 ug/l

RT: 3.15 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX013826.D

Acq: 07 Dec 2019 02:21

Instrument :

MSVOA_X

ClientSampleId :

RE125D2-20191205

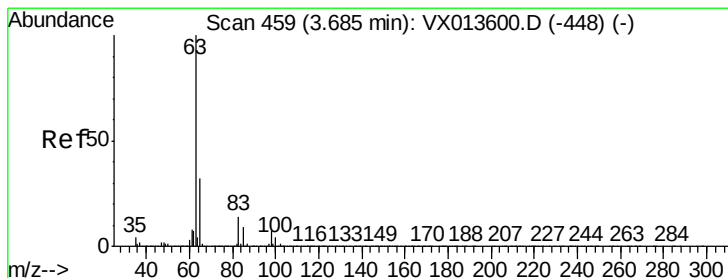
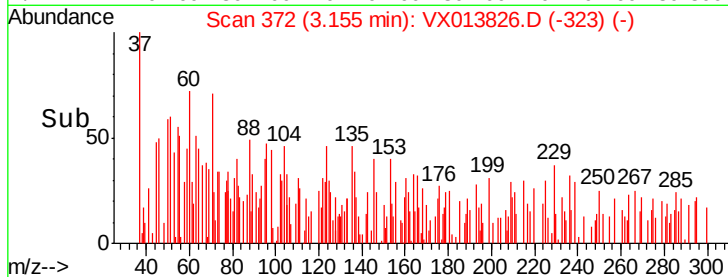
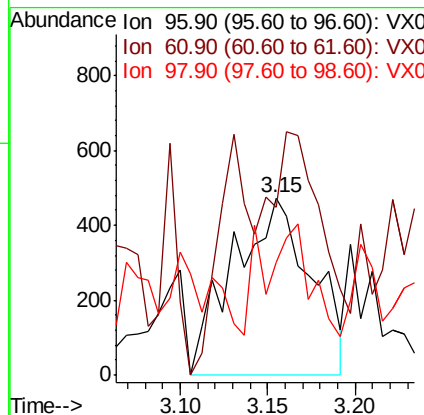
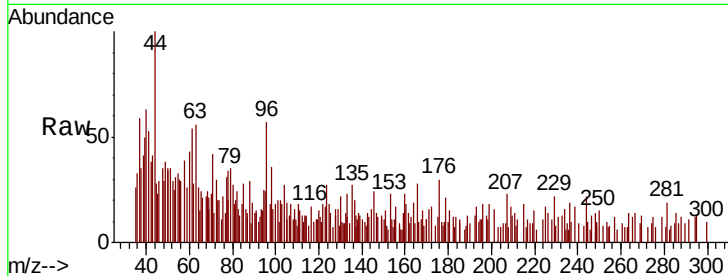
Tot Ion: 96 Resp: 1474

Ion Ratio Lower Upper

96 100

61 94.3 107.2 160.8#

98 41.4 51.4 77.0#



#24

1,1-Dichloroethane

Concen: 0.716 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.01 min

Lab File: VX013826.D

Acq: 07 Dec 2019 02:21

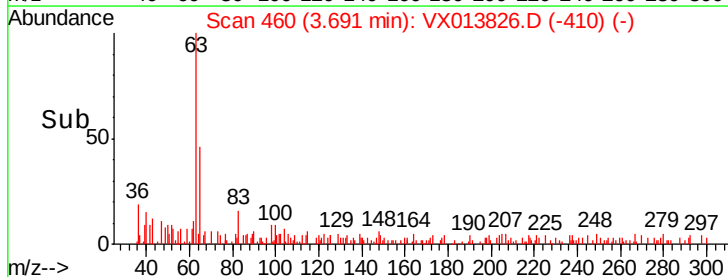
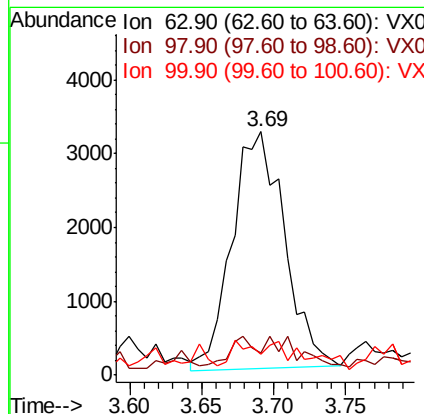
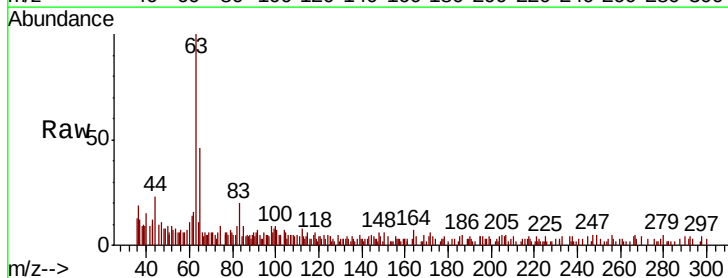
Tgt Ion: 63 Resp: 8090

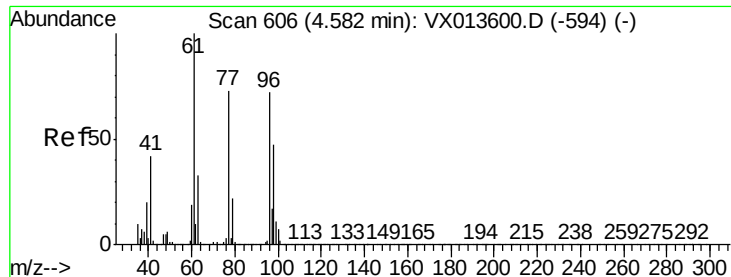
Ion Ratio Lower Upper

63 100

98 10.9 3.5 10.4#

100 11.4 2.1 6.3#



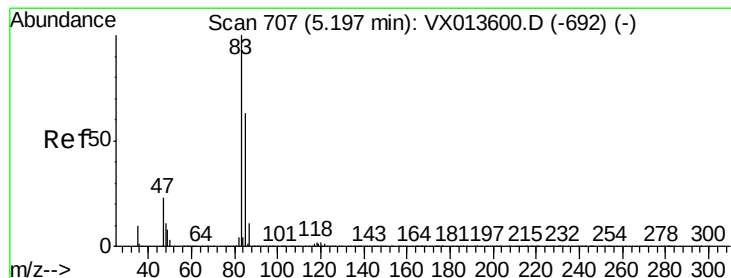
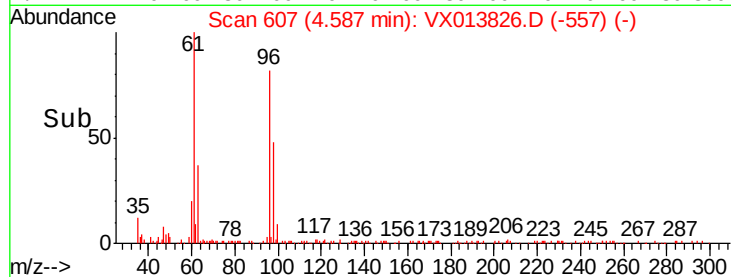
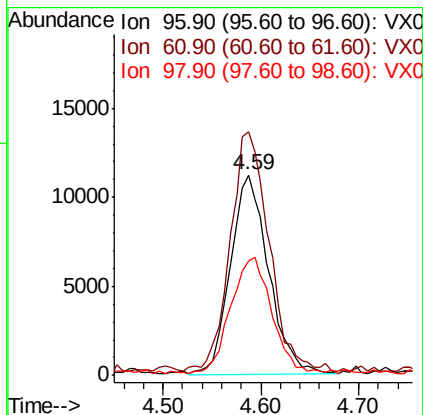
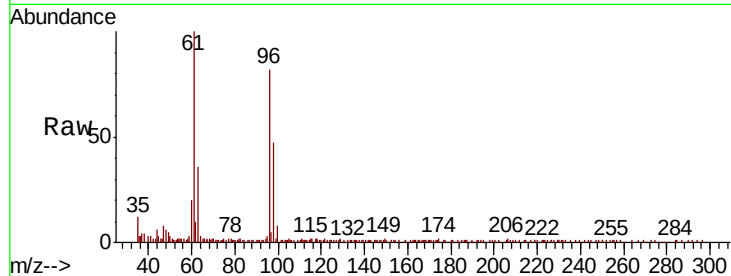


#27

cis-1,2-Dichloroethene
 Concen: 4.076 ug/l
 RT: 4.59 min Scan# 607
 Delta R.T. 0.01 min
 Lab File: VX013826.D
 Acq: 07 Dec 2019 02:21

Instrument :
 MSVOA_X
 ClientSampleId :
 RE125D2-20191205

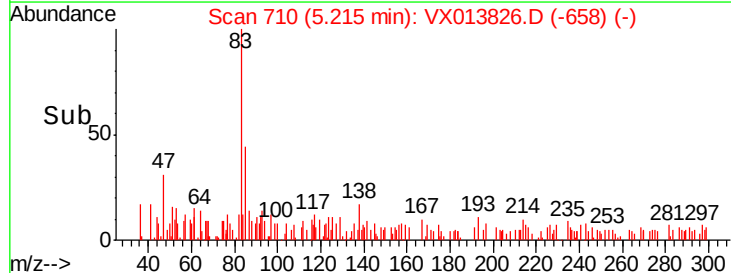
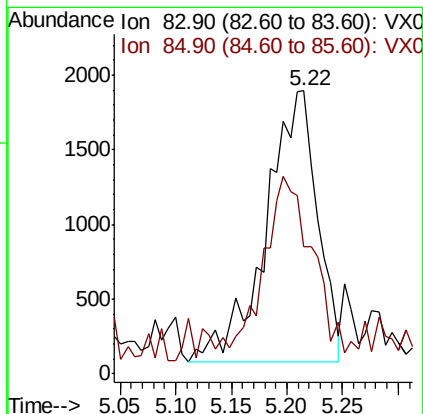
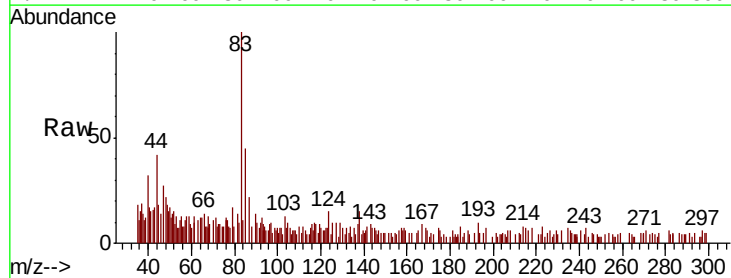
Tot Ion	Ratio	Lower	Upper
96	100		
61	124.0	0.0	286.4
98	63.1	0.0	127.4

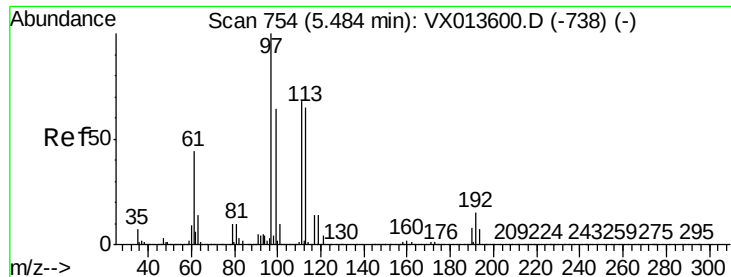


#30

Chloroform
 Concen: 0.511 ug/l
 RT: 5.22 min Scan# 710
 Delta R.T. 0.02 min
 Lab File: VX013826.D
 Acq: 07 Dec 2019 02:21

Tgt Ion	Ratio	Lower	Upper
83	100		
85	27.8	50.2	75.4#





#32

1,1,1-Trichloroethane

Concen: 0.342 ug/l

RT: 5.50 min Scan# 756

Delta R.T. 0.01 min

Lab File: VX013826.D

Acq: 07 Dec 2019 02:21

Instrument :

MSVOA_X

ClientSampleId :

RE125D2-20191205

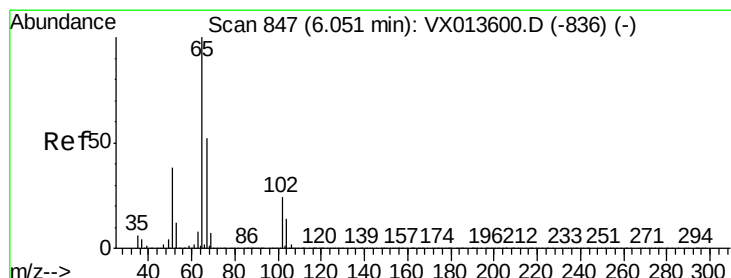
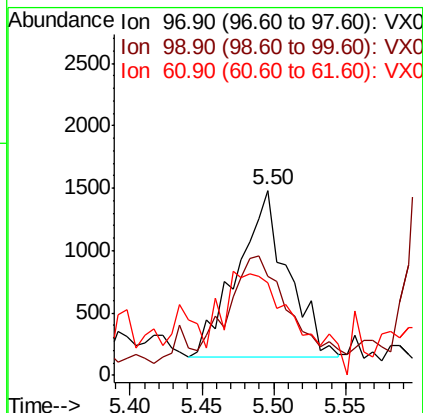
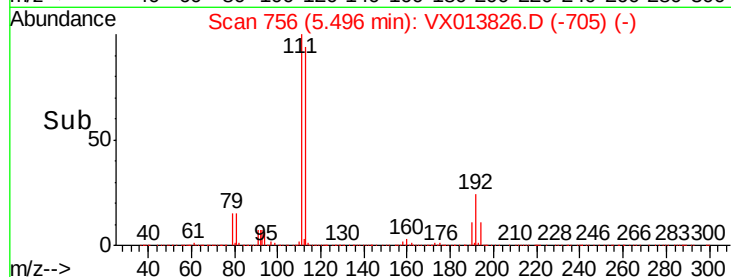
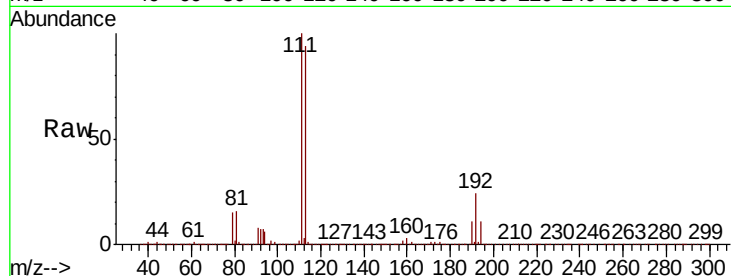
Tot Ion: 97 Resp: 3272

Ion Ratio Lower Upper

97 100

99 0.0 51.6 77.4#

61 0.0 36.1 54.1#



#33

1,2-Dichloroethane-d4

Concen: 47.503 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013826.D

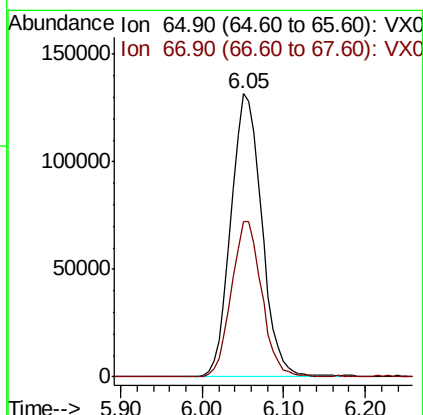
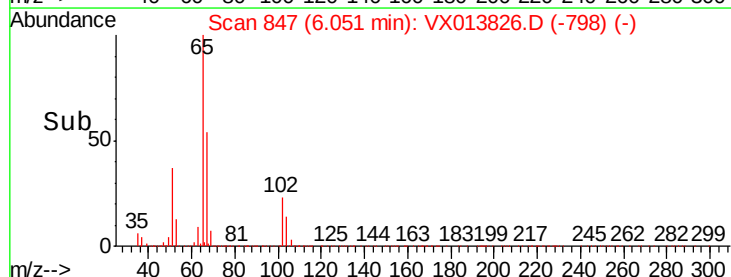
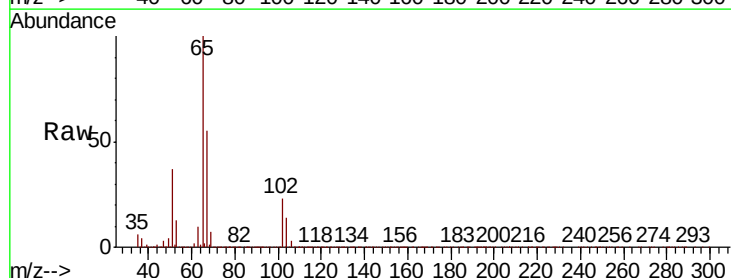
Acq: 07 Dec 2019 02:21

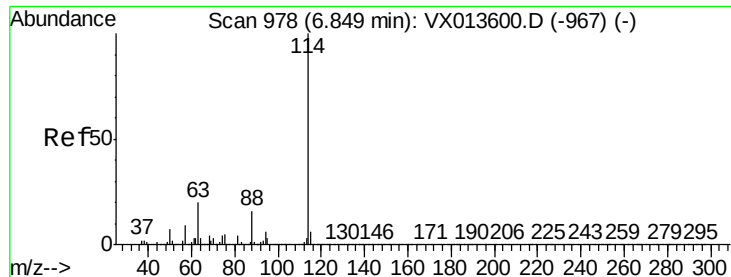
Tgt Ion: 65 Resp: 342884

Ion Ratio Lower Upper

65 100

67 53.7 0.0 104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013826.D

Acq: 07 Dec 2019 02:21

Instrument :

MSVOA_X

ClientSampleId :

RE125D2-20191205

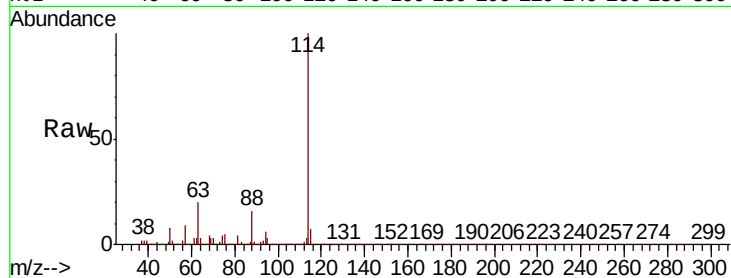
Tot Ion:114 Resp: 942737

Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.6

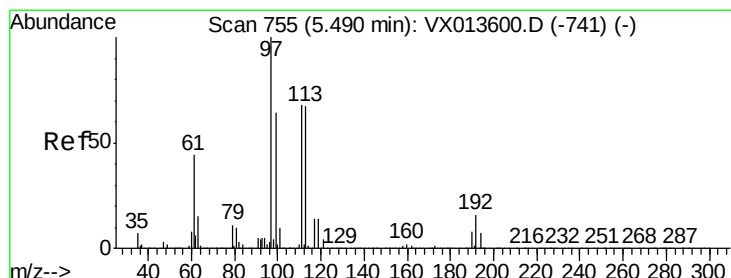
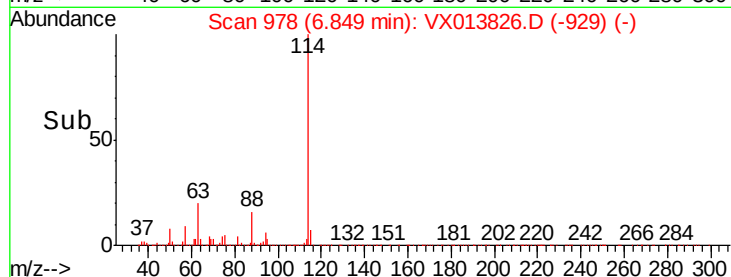
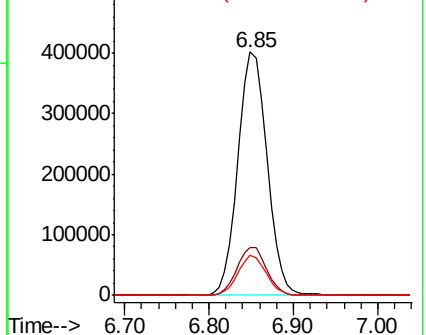
88 16.3 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.259 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013826.D

Acq: 07 Dec 2019 02:21

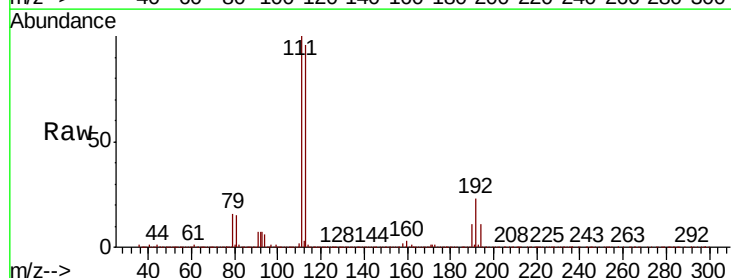
Tgt Ion:113 Resp: 281260

Ion Ratio Lower Upper

113 100

111 102.3 83.6 125.4

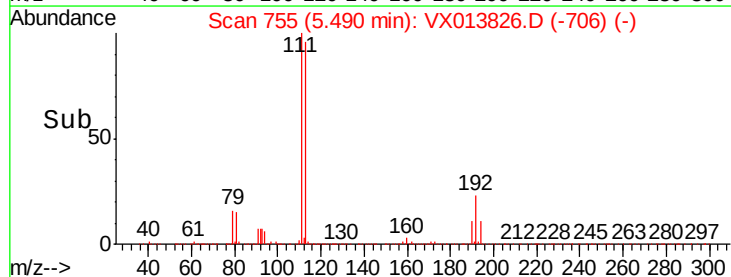
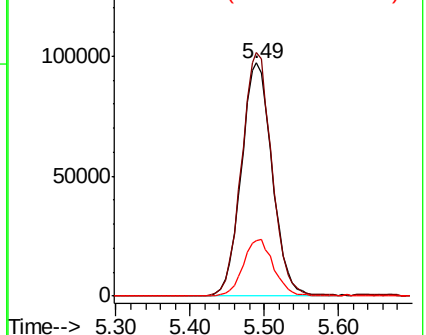
192 23.8 19.2 28.8

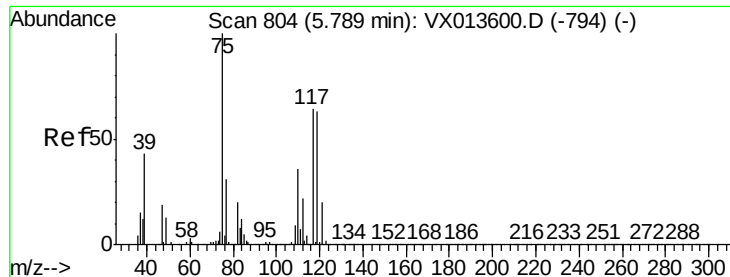


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.981 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013826.D

Acq: 07 Dec 2019 02:21

Instrument :

MSVOA_X

ClientSampleId :

RE125D2-20191205

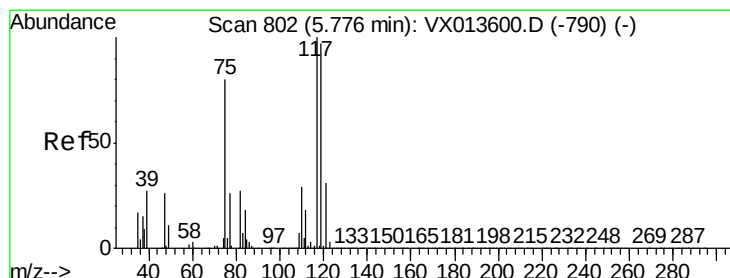
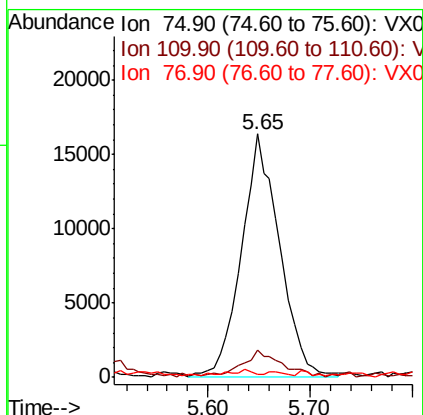
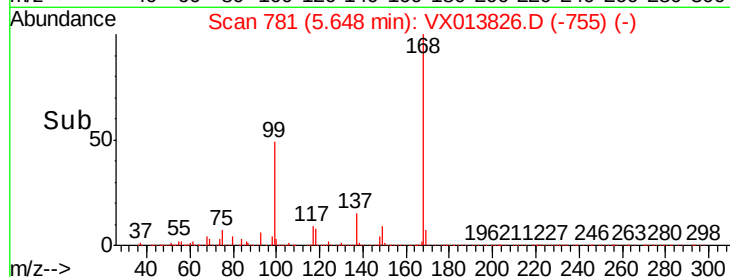
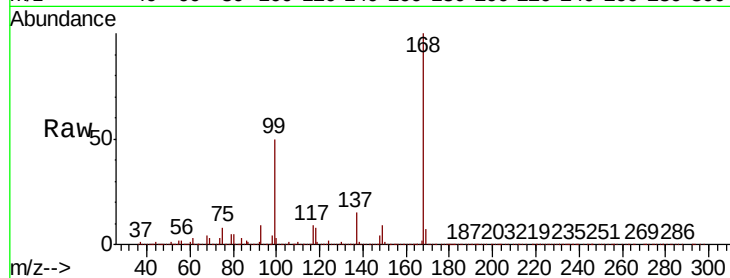
Tot Ion: 75 Resp: 42625

Ion Ratio Lower Upper

75 100

110 11.7 18.1 54.1#

77 1.2 24.5 36.7#



#38

Carbon Tetrachloride

Concen: 0.544 ug/l

RT: 5.78 min Scan# 803

Delta R.T. 0.01 min

Lab File: VX013826.D

Acq: 07 Dec 2019 02:21

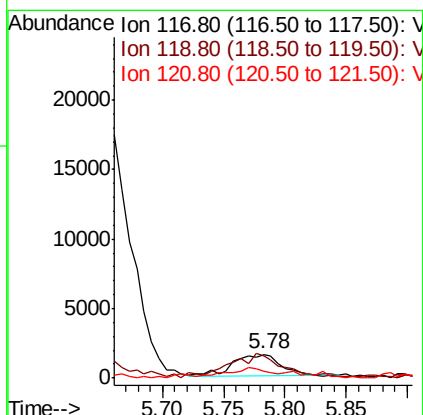
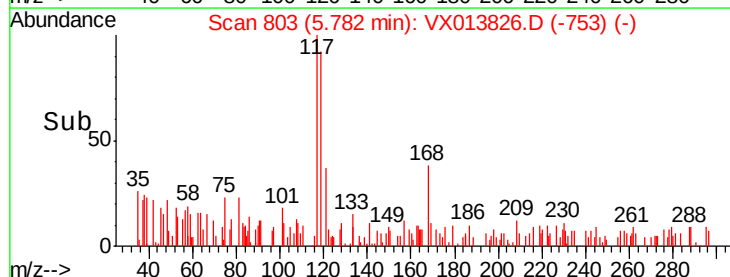
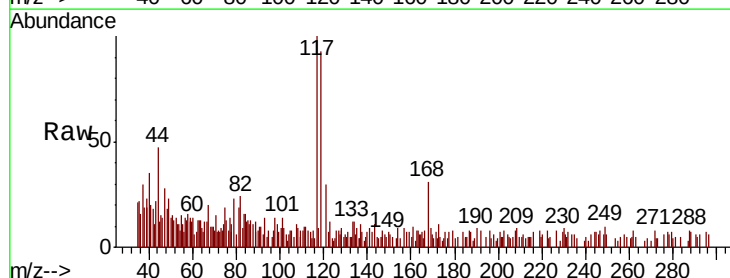
Tgt Ion: 117 Resp: 4290

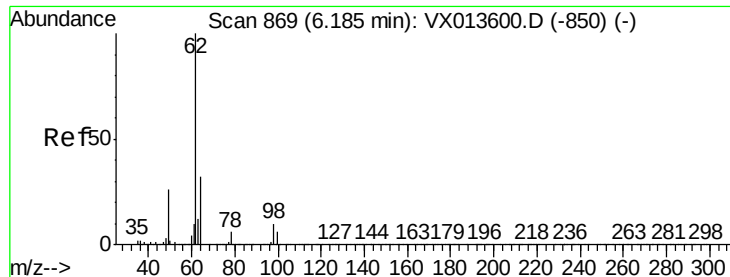
Ion Ratio Lower Upper

117 100

119 93.1 77.5 116.3

121 18.4 25.0 37.6#





#42

1,2-Dichloroethane

Concen: 0.316 ug/l

RT: 6.17 min Scan# 867

Delta R.T. -0.01 min

Lab File: VX013826.D

Acq: 07 Dec 2019 02:21

Instrument :

MSVOA_X

ClientSampleId :

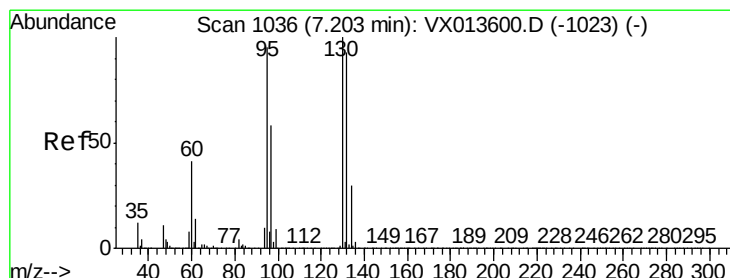
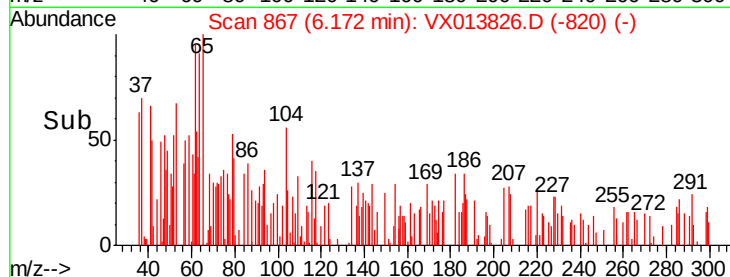
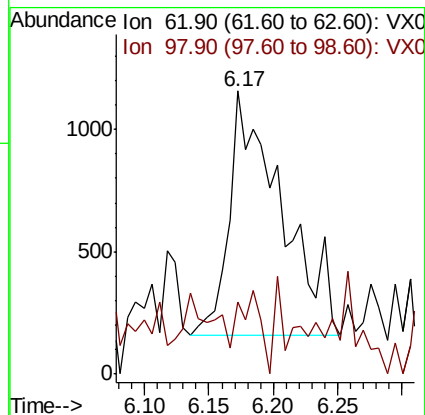
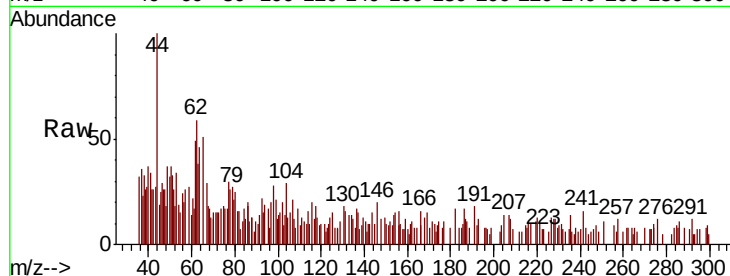
RE125D2-20191205

Tot Ion: 62 Resp: 2810

Ion Ratio Lower Upper

62 100

98 14.1 0.0 20.8



#44

Trichloroethene

Concen: 275.994 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013826.D

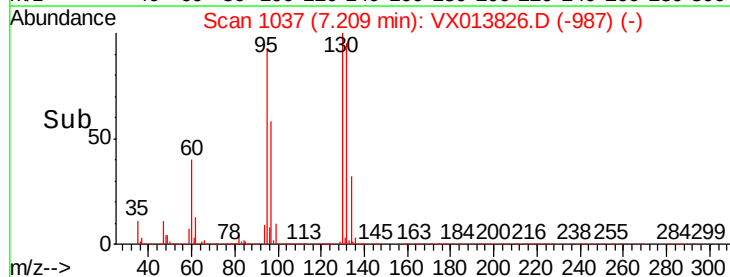
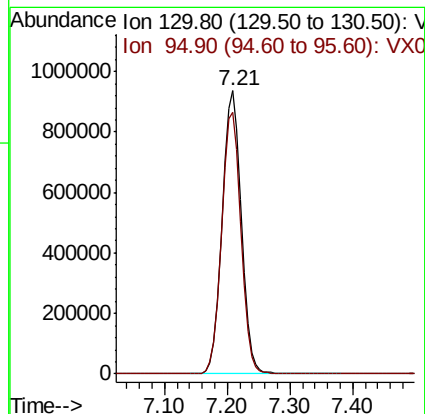
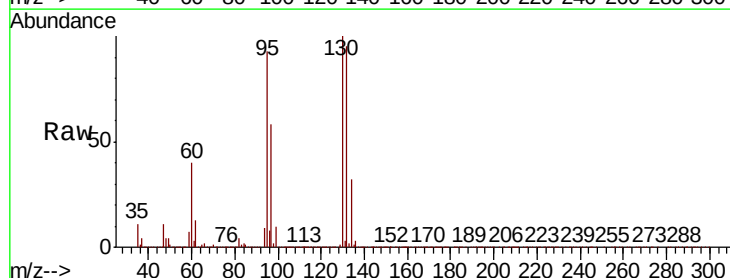
Acq: 07 Dec 2019 02:21

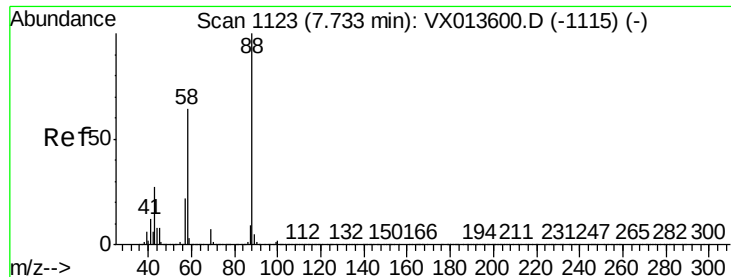
Tgt Ion:130 Resp: 1974224

Ion Ratio Lower Upper

130 100

95 92.5 0.0 190.8

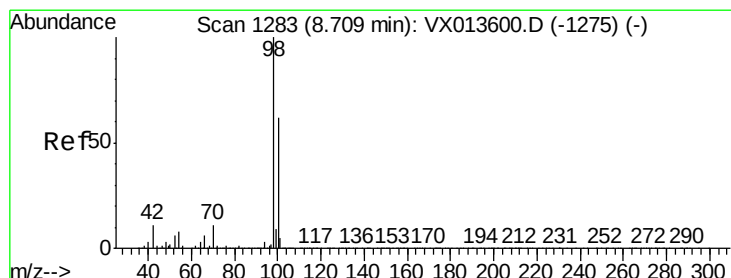
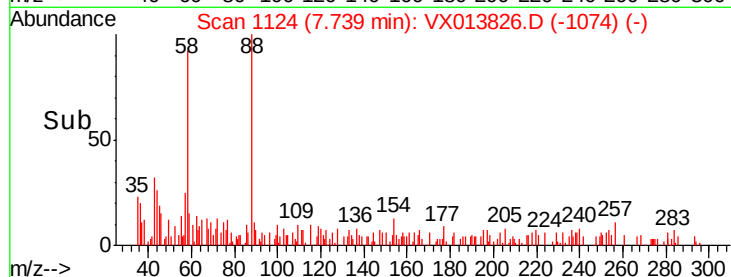
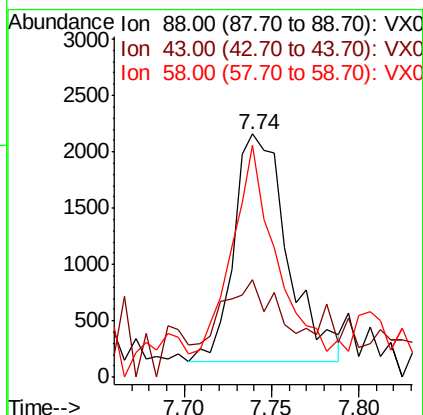
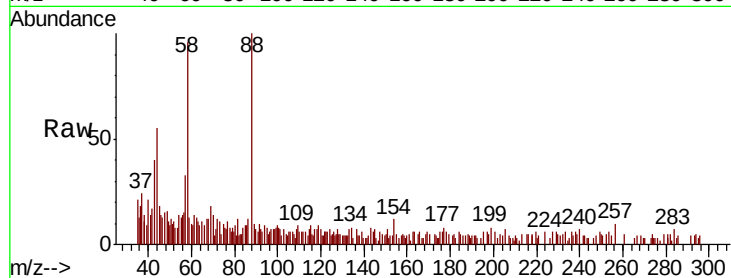




#49
1,4-Dioxane
Concen: 25.260 ug/l
RT: 7.74 min Scan# 1124
Delta R.T. 0.01 min
Lab File: VX013826.D
Acq: 07 Dec 2019 02:21

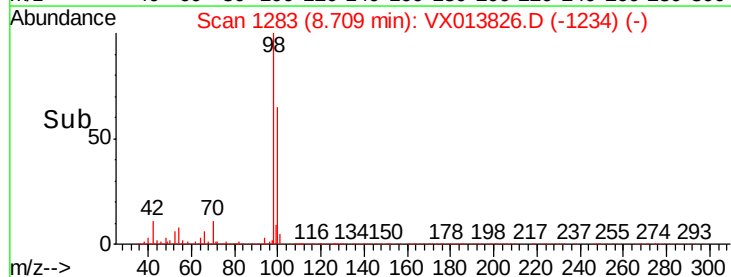
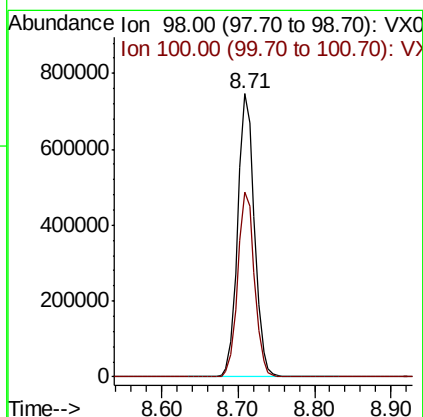
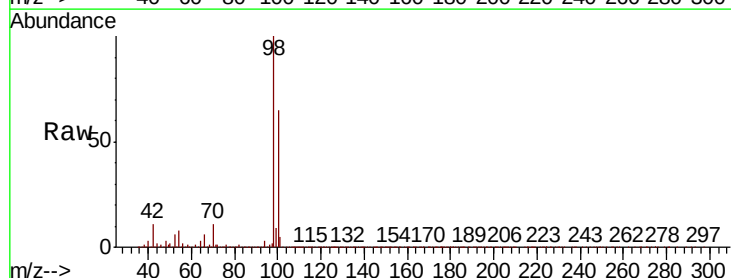
Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20191205

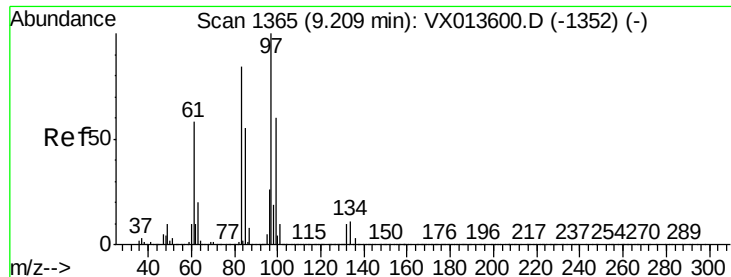
Tot Ion: 88 Resp: 4342
Ion Ratio Lower Upper
88 100
43 25.3 25.8 38.6#
58 75.0 54.6 82.0



#50
Toluene-d8
Concen: 49.572 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX013826.D
Acq: 07 Dec 2019 02:21

Tgt Ion: 98 Resp: 1125637
Ion Ratio Lower Upper
98 100
100 65.4 53.1 79.7





#55

1,1,2-Trichloroethane

Concen: 0.404 ug/l

RT: 9.21 min Scan# 1365

Delta R.T. -0.00 min

Lab File: VX013826.D

Acq: 07 Dec 2019 02:21

Instrument :

MSVOA_X

ClientSampleId :

RE125D2-20191205

Tot Ion: 97 Resp: 2633

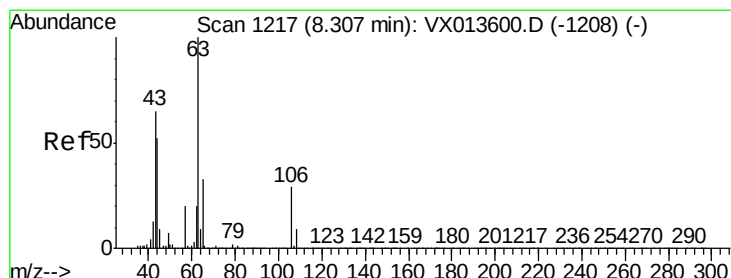
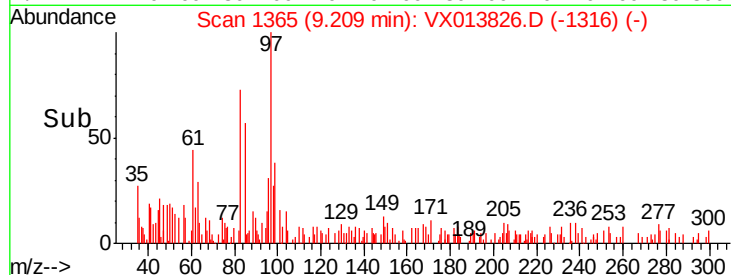
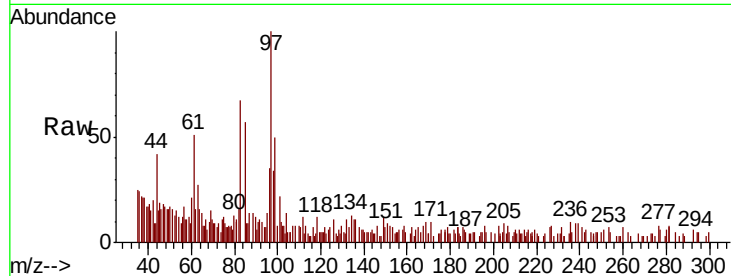
Ion Ratio Lower Upper

97 100

83 68.3 67.3 100.9

85 42.3 43.6 65.4#

99 45.0 48.2 72.4#



#58

2-Chloroethyl Vinyl ether

Concen: 0.203 ug/l

RT: 8.51 min Scan# 1251

Delta R.T. 0.21 min

Lab File: VX013826.D

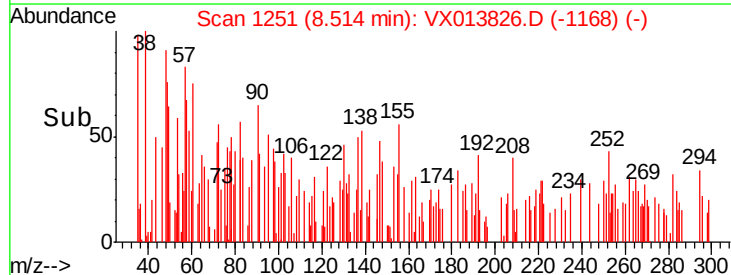
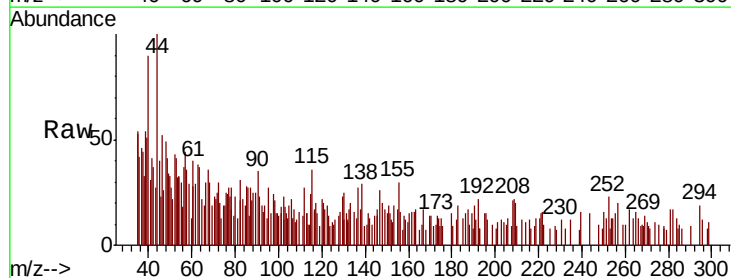
Acq: 07 Dec 2019 02:21

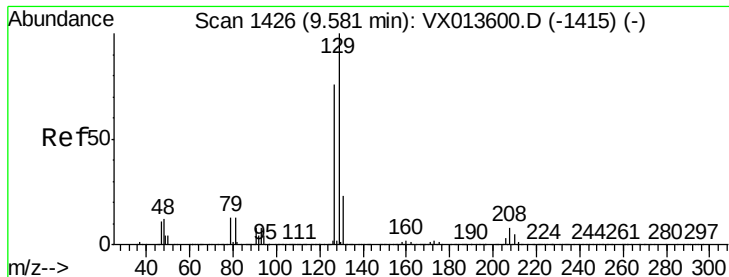
Tgt Ion: 63 Resp: 834

Ion Ratio Lower Upper

63 100

106 29.7 23.4 35.0





#60

Dibromochloromethane

Concen: 3.265 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX013826.D

Acq: 07 Dec 2019 02:21

Instrument :

MSVOA_X

ClientSampleId :

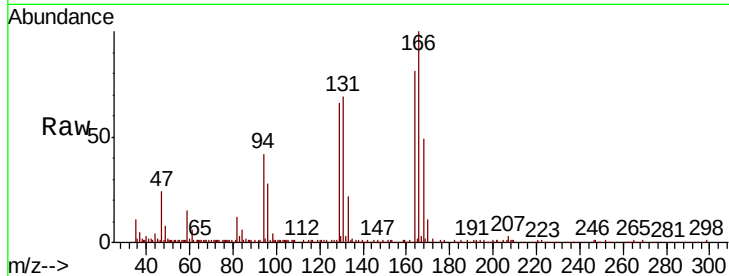
RE125D2-20191205

Tot Ion:129 Resp: 22112

Ion Ratio Lower Upper

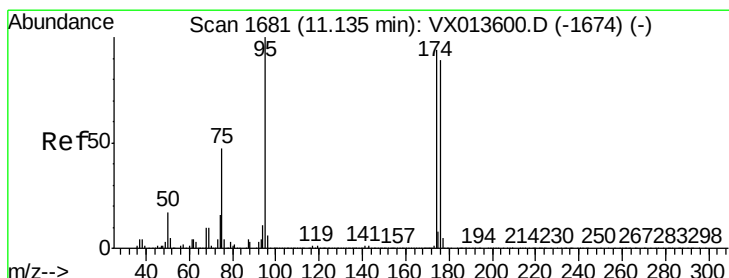
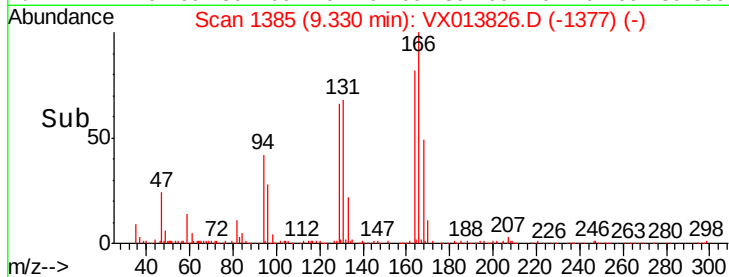
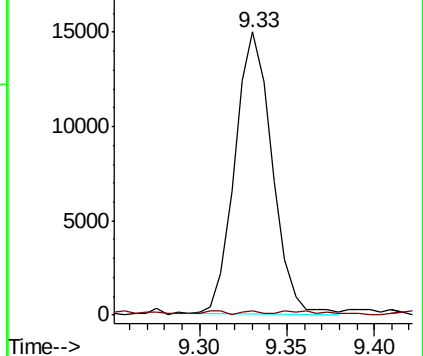
129 100

127 0.9 38.5 115.5#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 44.823 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013826.D

Acq: 07 Dec 2019 02:21

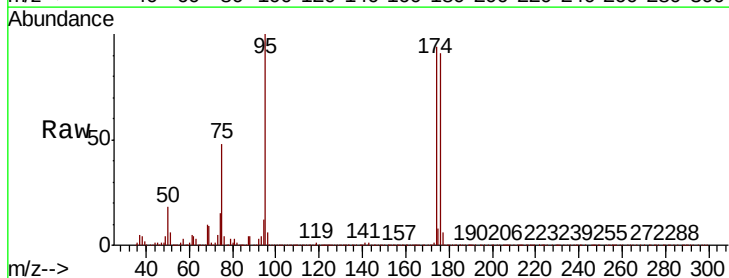
Tgt Ion: 95 Resp: 367018

Ion Ratio Lower Upper

95 100

174 89.5 0.0 180.0

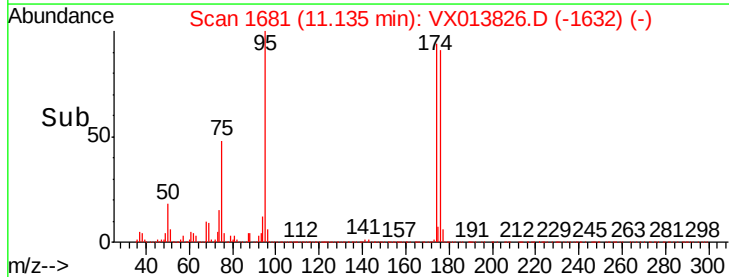
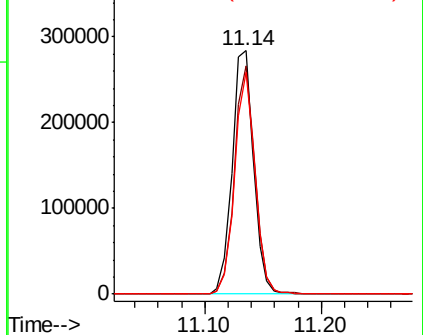
176 86.7 0.0 173.6

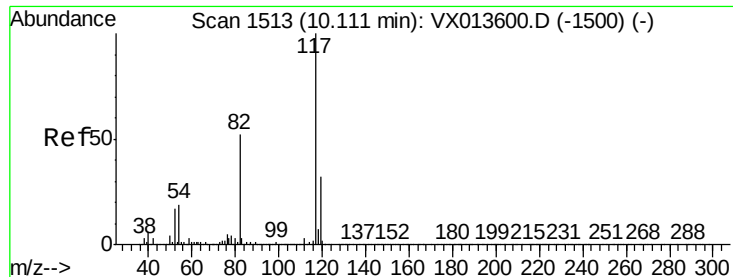


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

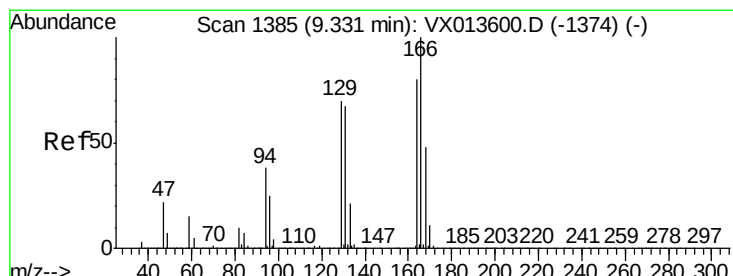
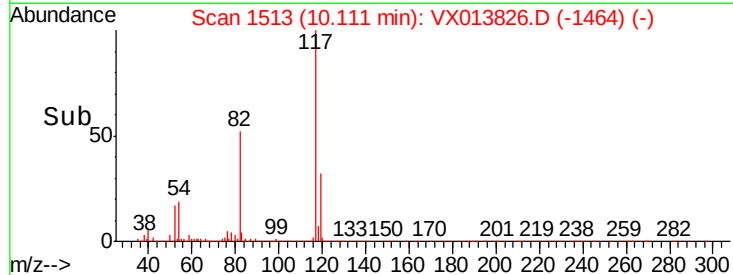
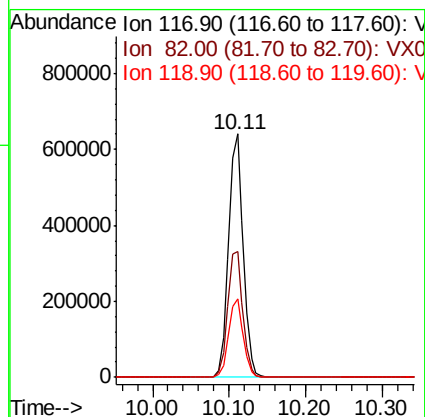
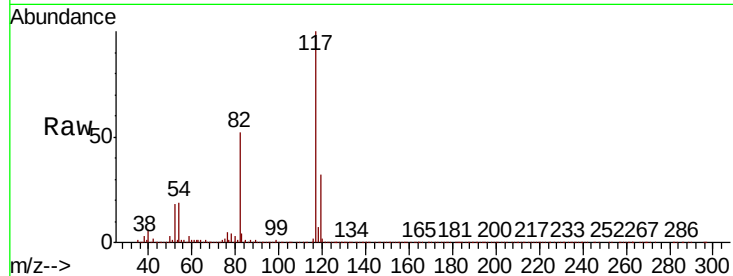




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013826.D
Acq: 07 Dec 2019 02:21

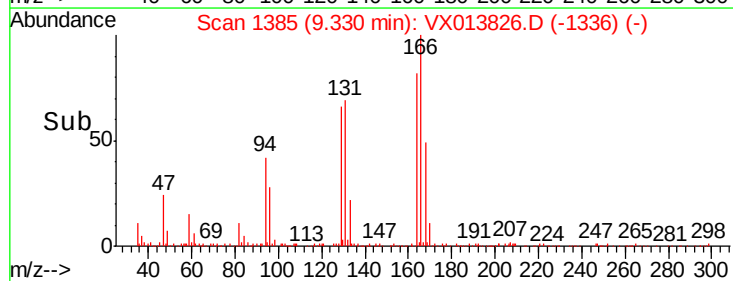
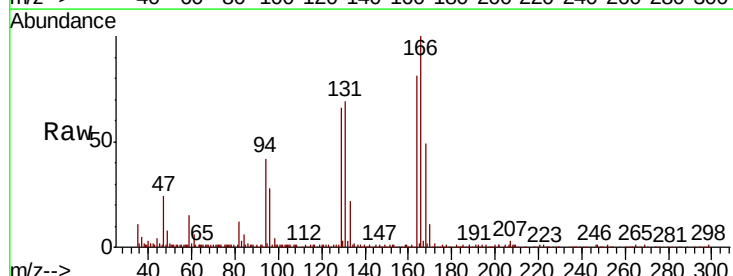
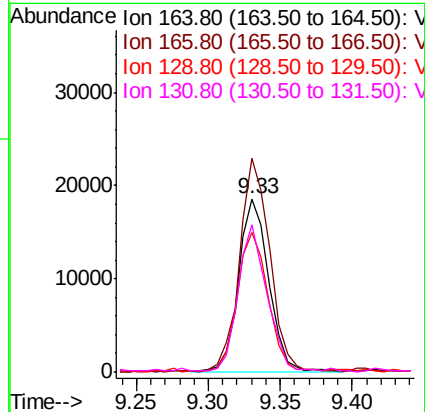
Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20191205

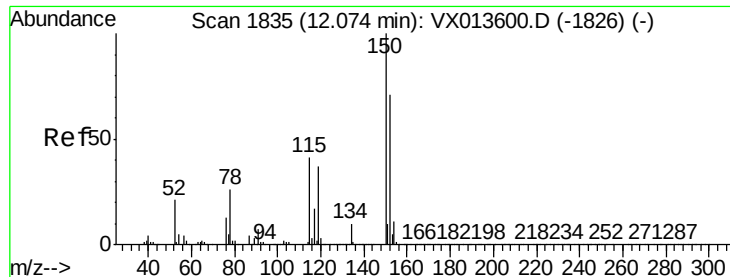
Tot Ion	Ratio	Lower	Upper
117	100		
82	51.8	41.8	62.8
119	32.3	25.8	38.8



#64
Tetrachloroethene
Concen: 4.293 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX013826.D
Acq: 07 Dec 2019 02:21

Tgt Ion	Ratio	Lower	Upper
164	100		
166	123.4	99.7	149.5
129	80.3	70.1	105.1
131	84.2	66.9	100.3



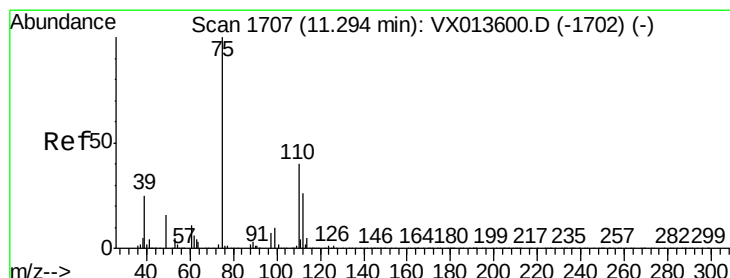
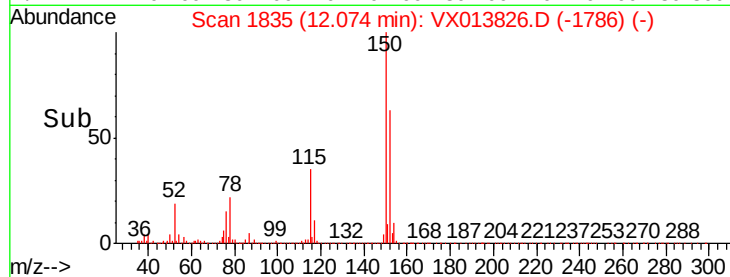
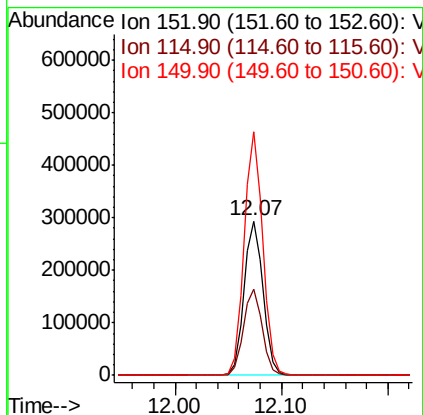
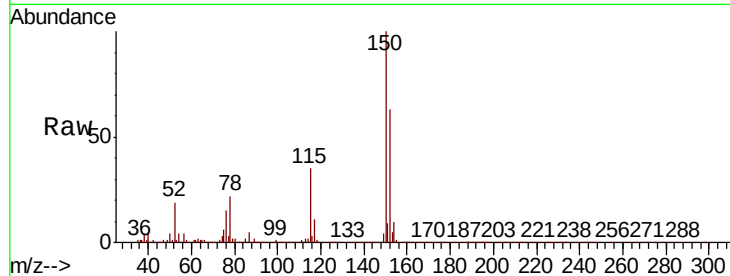


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013826.D
Acq: 07 Dec 2019 02:21

Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20191205

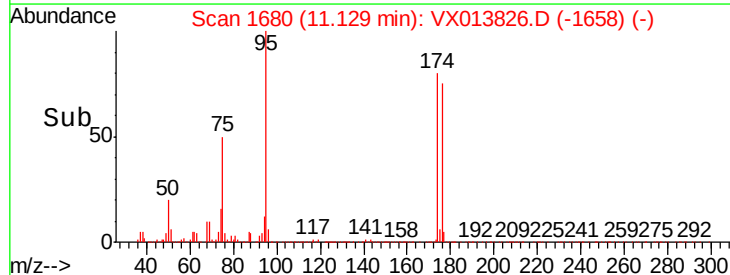
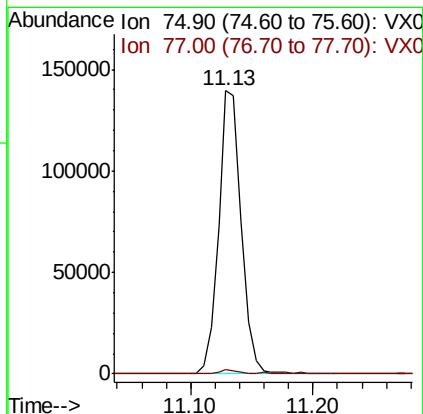
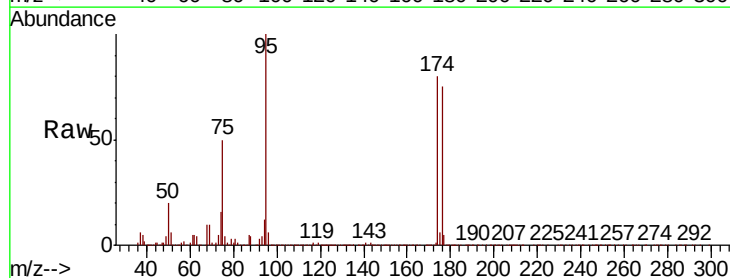
Tot Ion	Ratio	Lower	Upper
152	100		
115	55.3	38.4	115.1
150	155.4	0.0	346.8

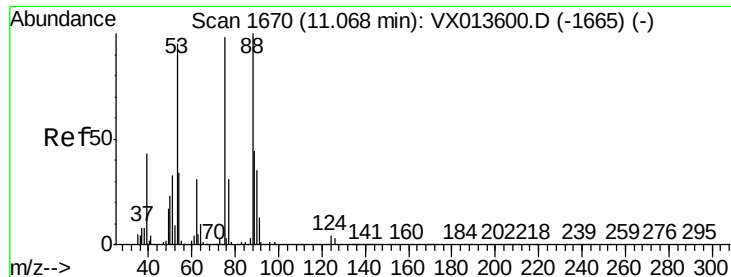


#76

1,2,3-Trichloropropane
Concen: 21.739 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX013826.D
Acq: 07 Dec 2019 02:21

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.4	19.1	57.5#





#81

trans-1,4-Dichloro-2-butene

Concen: 59.474 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013826.D

Acq: 07 Dec 2019 02:21

Instrument :

MSVOA_X

ClientSampleId :

RE125D2-20191205

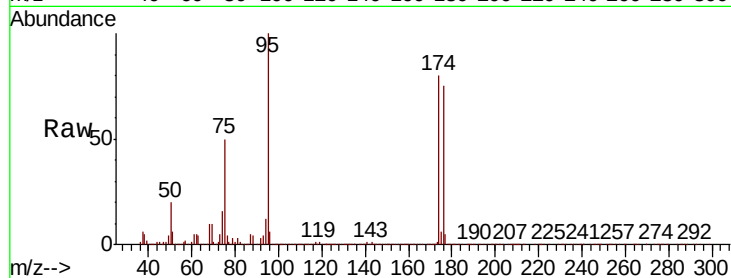
Tot Ion: 75 Resp: 179007

Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.2#

89 0.0 35.4 53.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

