

Data File : VX013898.D
Acq On : 10 Dec 2019 15:13
Operator : JC/SP
Sample : K6184-14
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE122D2-20191203

Quant Time: Dec 11 02:25:38 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	591148	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	917602	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	811765	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	359021	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	334507	48.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.50%	
35) Dibromofluoromethane	5.49	113	276943	48.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.64%	
50) Toluene-d8	8.71	98	1070726	48.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.90%	
62) 4-Bromofluorobenzene	11.14	95	358033	44.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.84%	

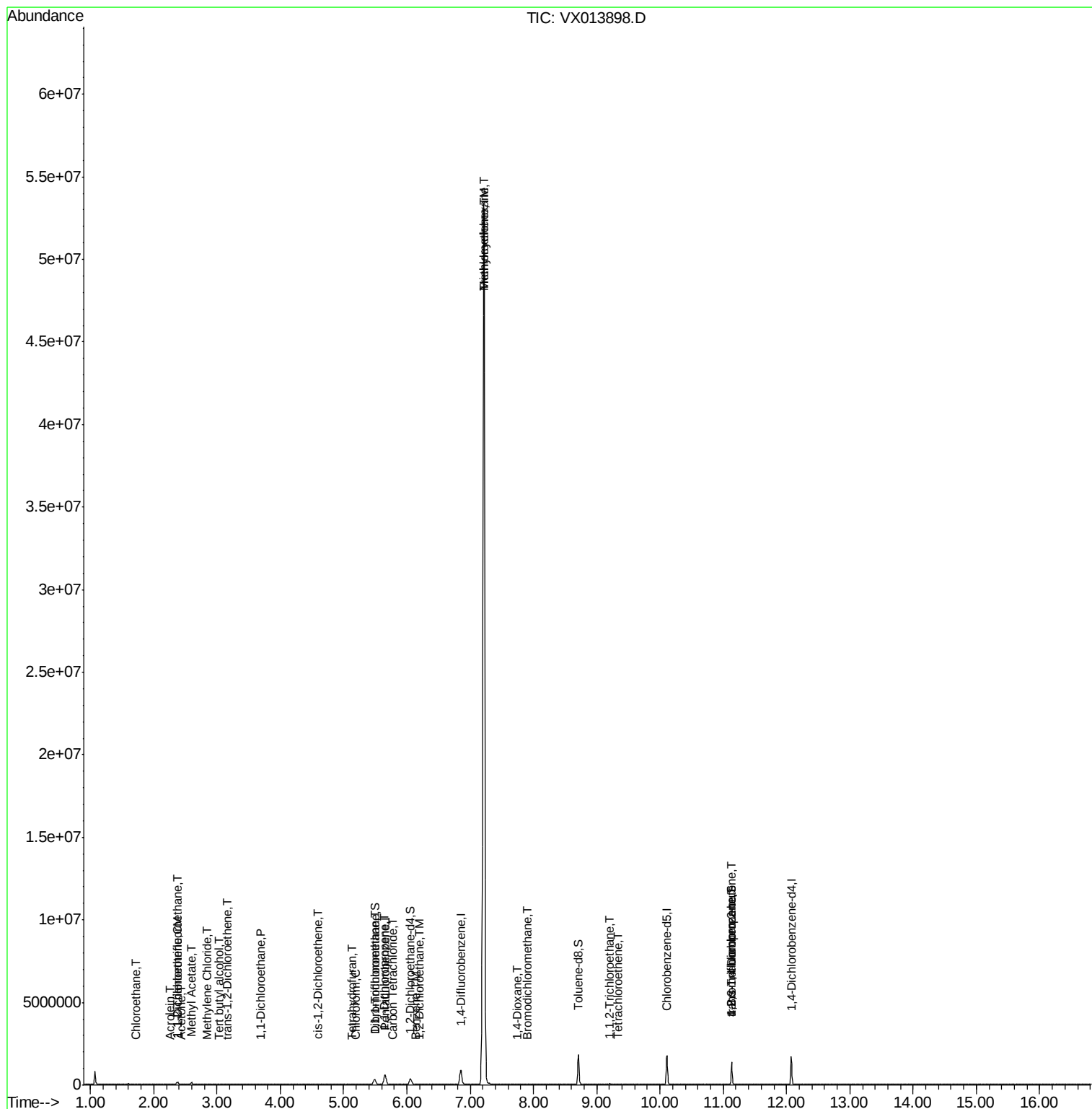
Target Compounds				Qvalue		
6) Chloroethane	1.72	64	1346	0.285	ug/l #	42
9) 1,1,2-Trichlorotrifluoroet	2.37	101	38137	6.767	ug/l	98
11) Tert butyl alcohol	3.03	59	3232	1.908	ug/l #	91
12) 1,1-Dichloroethene	2.37	96	23877	4.244	ug/l	95
13) Acrolein	2.27	56	330	6.288	ug/l #	66
16) Acetone	2.43	43	15832	4.673	ug/l #	85
18) Methyl Acetate	2.59	43	42406	4.495	ug/l #	52
20) Methylene Chloride	2.85	84	2414	0.371	ug/l #	75
21) trans-1,2-Dichloroethene	3.15	96	1883	0.307	ug/l #	80
24) 1,1-Dichloroethane	3.69	63	12240	1.139	ug/l #	93
27) cis-1,2-Dichloroethene	4.59	96	26607	3.780	ug/l	91
29) Tetrahydrofuran	5.14	42	5439	1.752	ug/l #	84
30) Chloroform	5.19	83	23051	2.115	ug/l	93
32) 1,1,1-Trichloroethane	5.49	97	3577	0.393	ug/l #	23
36) 1,1-Dichloropropene	5.64	75	40934	4.914	ug/l #	51
38) Carbon Tetrachloride	5.78	117	13956	1.817	ug/l	91
39) Methylcyclohexane	7.22	83	274937	26.703	ug/l #	1
40) Benzene	6.14	78	8028	0.316	ug/l #	87
42) 1,2-Dichloroethane	6.19	62	5982	0.691	ug/l #	72
44) Trichloroethene	7.22	130	20833391	2992.256	ug/l	95
47) Bromodichloromethane	7.89	83	3087	0.379	ug/l #	60
49) 1,4-Dioxane	7.74	88	2696	16.114	ug/l #	83
55) 1,1,2-Trichloroethane	9.21	97	14465	2.278	ug/l	94
64) Trachloroethene	9.33	164	7826	1.293	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	178837	22.147	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	178837	60.590	ug/l #	11

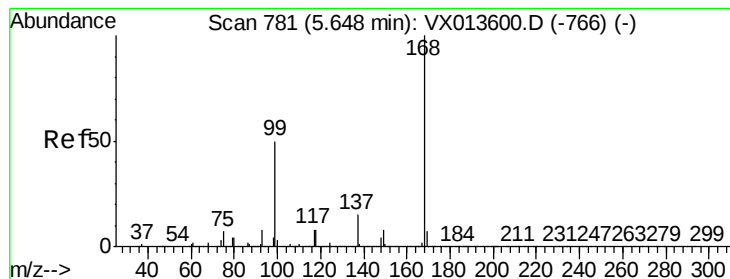
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013898.D

Acq: 10 Dec 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

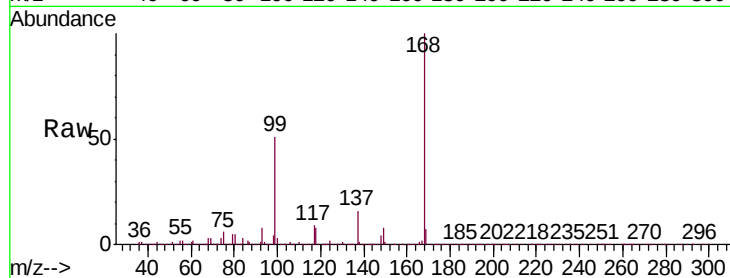
RE122D2-20191203

Tgt Ion: 168 Resp: 591148

Ion Ratio Lower Upper

168 100

99 51.3 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

250000

200000

150000

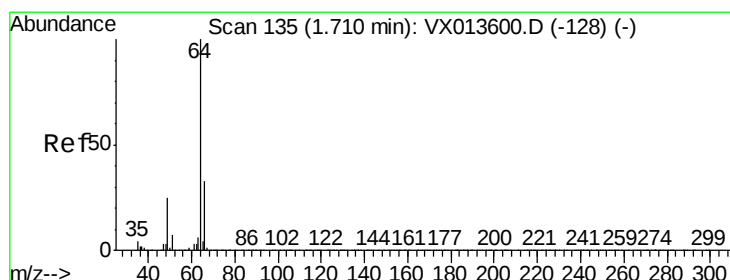
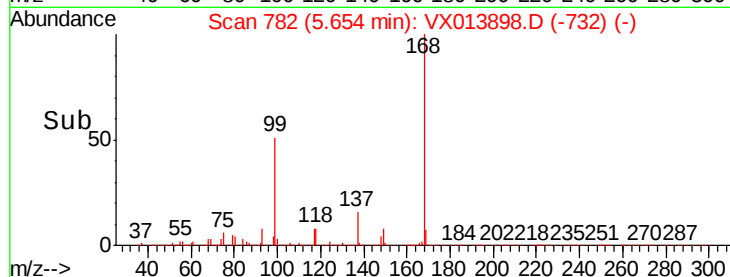
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#6

Chloroethane

Concen: 0.285 ug/l

RT: 1.72 min Scan# 136

Delta R.T. 0.01 min

Lab File: VX013898.D

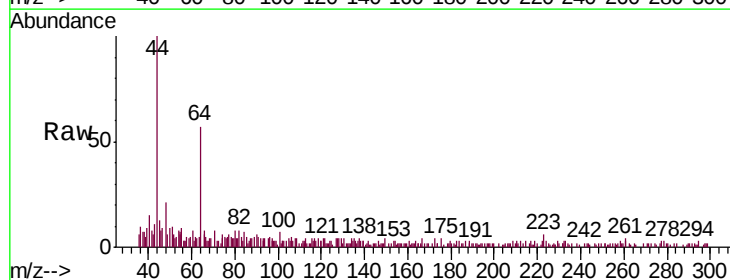
Acq: 10 Dec 2019 15:13

Tgt Ion: 64 Resp: 1346

Ion Ratio Lower Upper

64 100

66 66.2 26.7 40.1#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

3000

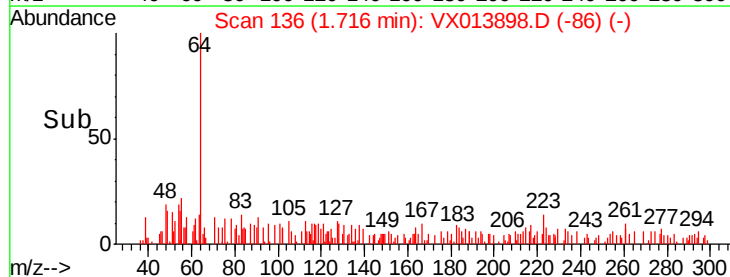
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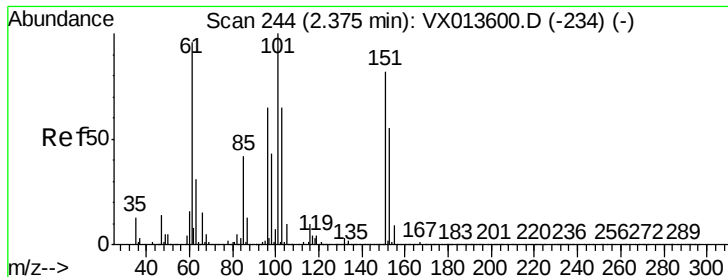
1000

0

1.70 1.72 1.74 1.76

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 6.767 ug/l

RT: 2.37 min Scan# 244

Delta R.T. -0.00 min

Lab File: VX013898.D

Acq: 10 Dec 2019 15:13

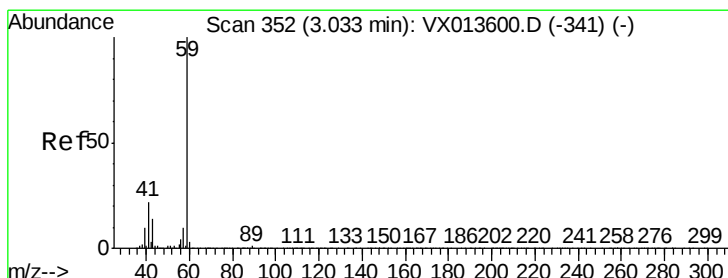
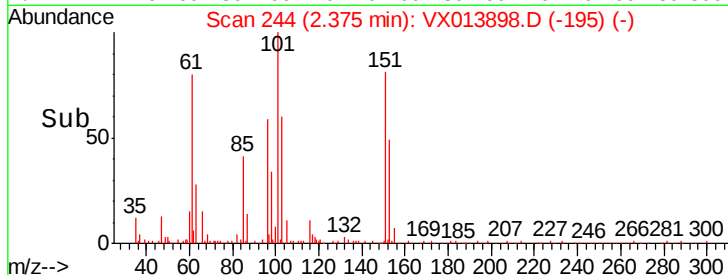
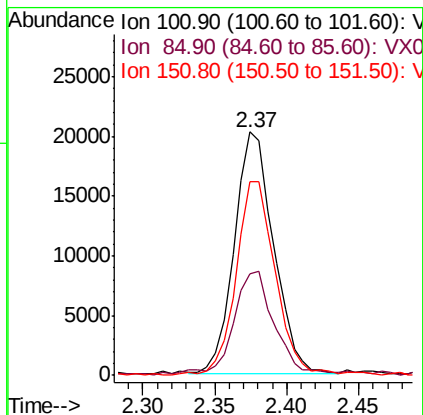
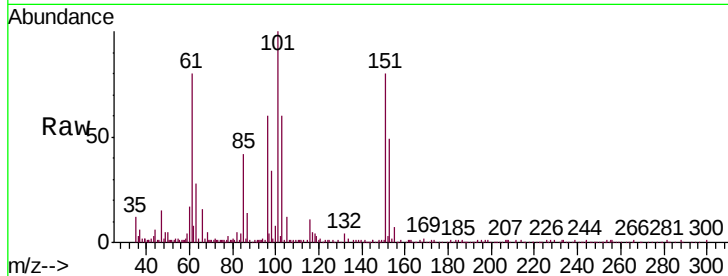
Instrument :

MSVOA_X

ClientSampleId :

RE122D2-20191203

Tgt Ion:	101	Resp:	38137
Ion Ratio	Lower	Upper	
101	100		
85	44.7	33.9	50.9
151	80.9	64.2	96.2



#11

Tert butyl alcohol

Concen: 1.908 ug/l

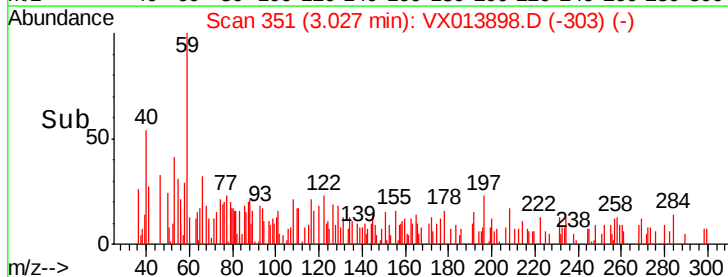
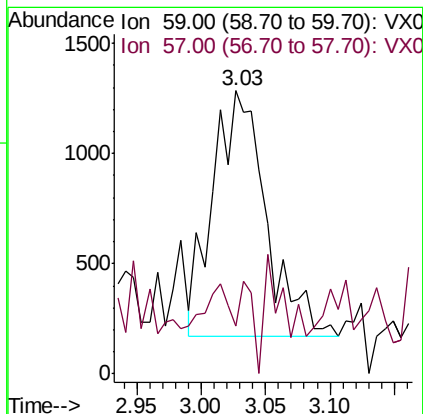
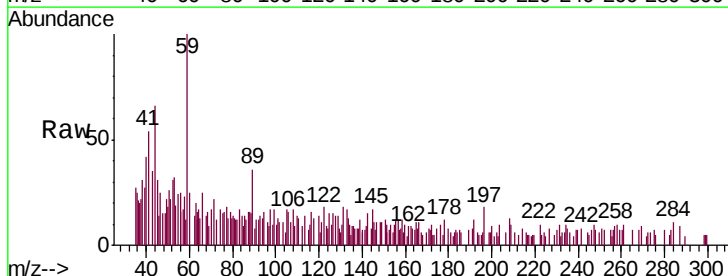
RT: 3.03 min Scan# 351

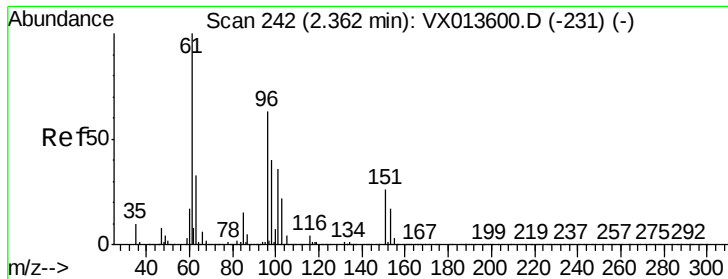
Delta R.T. -0.01 min

Lab File: VX013898.D

Acq: 10 Dec 2019 15:13

Tgt Ion:	59	Resp:	3232
Ion Ratio	Lower	Upper	
59	100		
57	6.3	7.8	11.6#

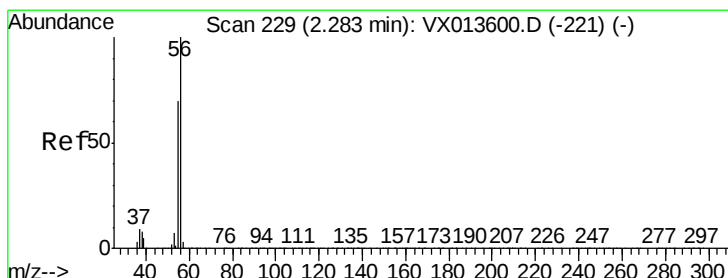
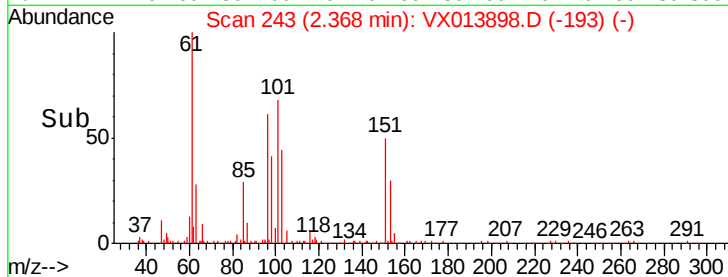
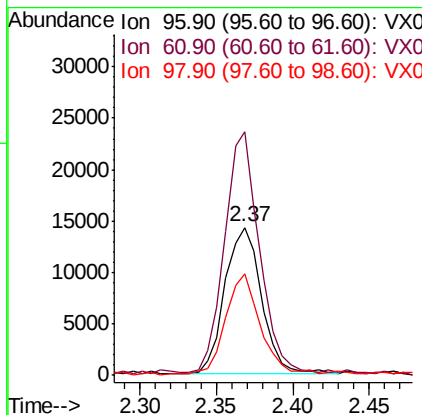
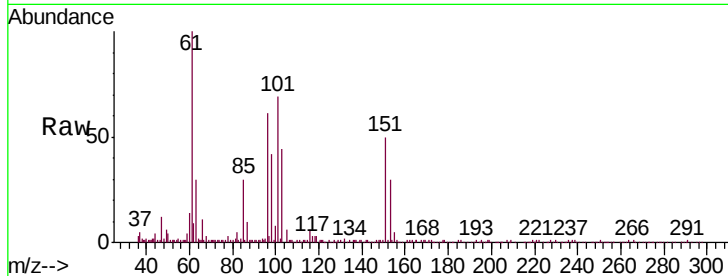




#12
 1,1-Dichloroethene
 Concen: 4.244 ug/l
 RT: 2.37 min Scan# 243
 Delta R.T. 0.01 min
 Lab File: VX013898.D
 Acq: 10 Dec 2019 15:13

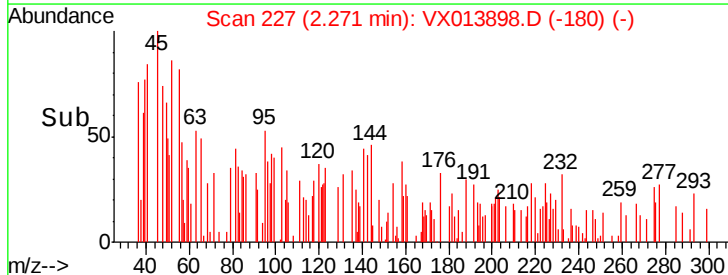
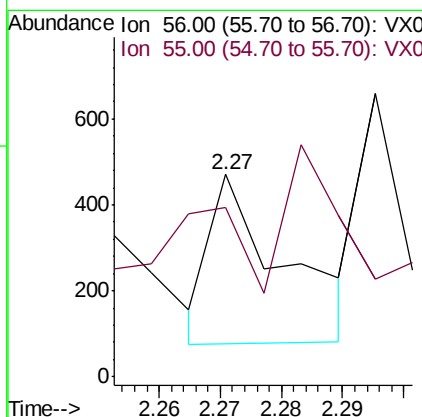
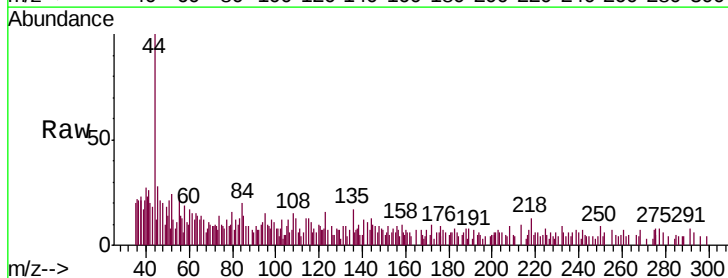
Instrument :
 MSVOA_X
 ClientSampleId :
 RE122D2-20191203

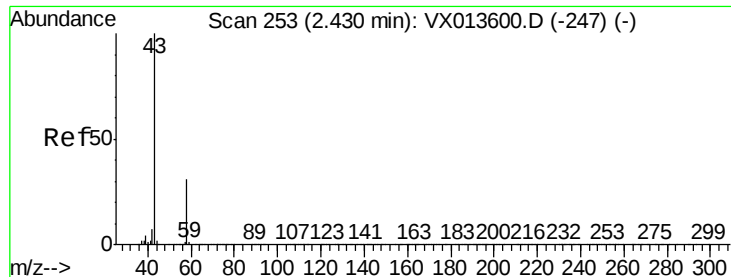
Tgt Ion: 96 Resp: 23877
 Ion Ratio Lower Upper
 96 100
 61 164.3 126.6 190.0
 98 68.3 50.6 76.0



#13
 Acrolein
 Concen: 6.288 ug/l
 RT: 2.27 min Scan# 227
 Delta R.T. -0.01 min
 Lab File: VX013898.D
 Acq: 10 Dec 2019 15:13

Tgt Ion: 56 Resp: 330
 Ion Ratio Lower Upper
 56 100
 55 42.7 56.2 84.4#





#16

Acetone

Concen: 4.673 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013898.D

Acq: 10 Dec 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

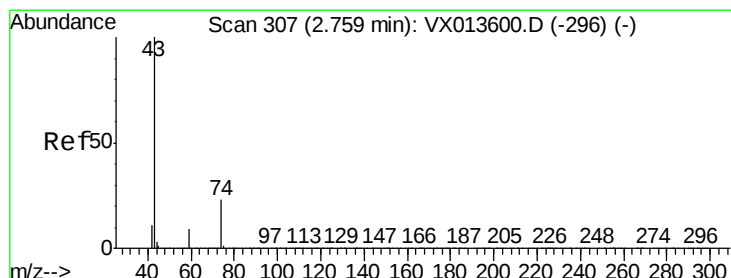
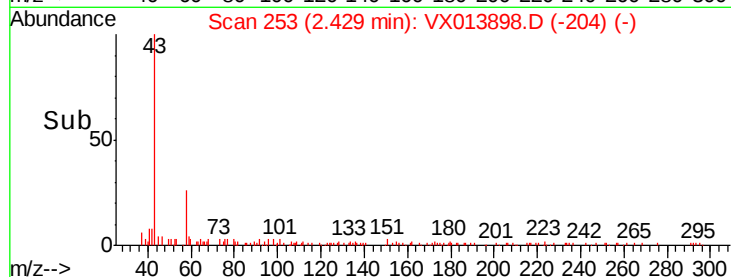
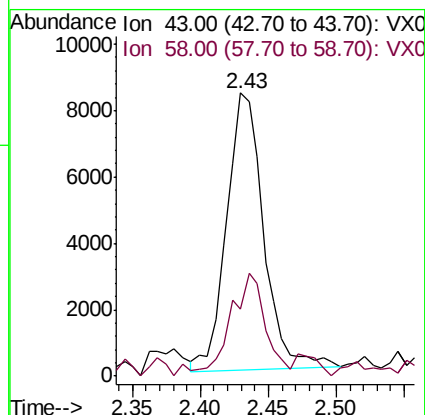
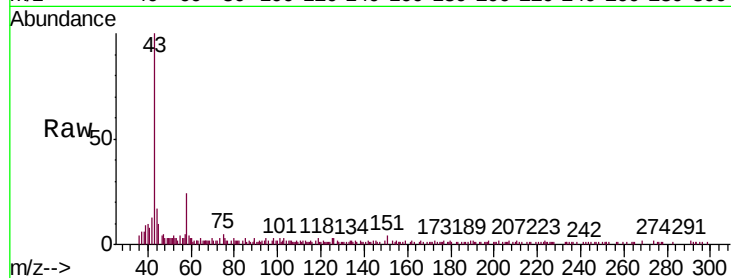
RE122D2-20191203

Tgt Ion: 43 Resp: 15832

Ion Ratio Lower Upper

43 100

58 22.6 24.6 36.8#



#18

Methyl Acetate

Concen: 4.495 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.16 min

Lab File: VX013898.D

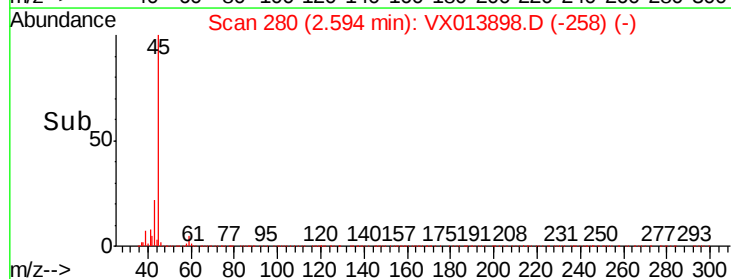
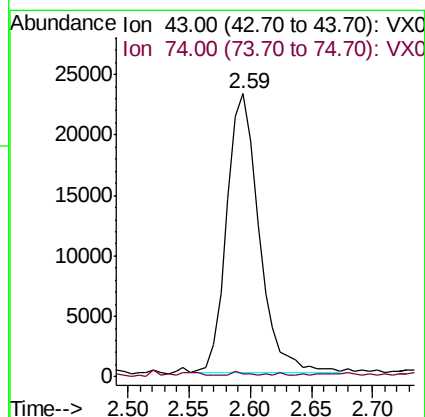
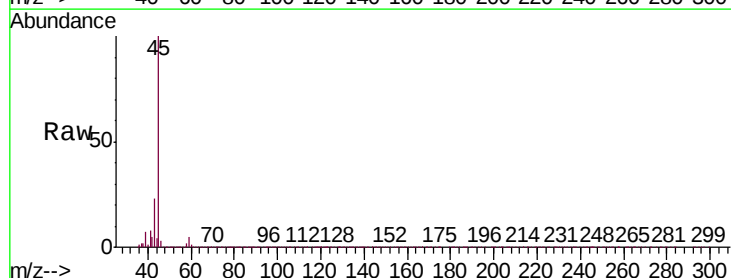
Acq: 10 Dec 2019 15:13

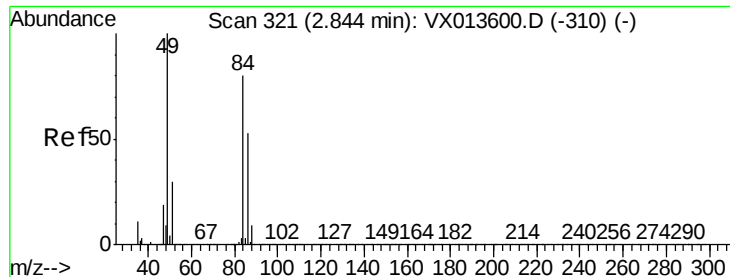
Tgt Ion: 43 Resp: 42406

Ion Ratio Lower Upper

43 100

74 0.7 19.5 29.3#





#20

Methylene Chloride

Concen: 0.371 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.01 min

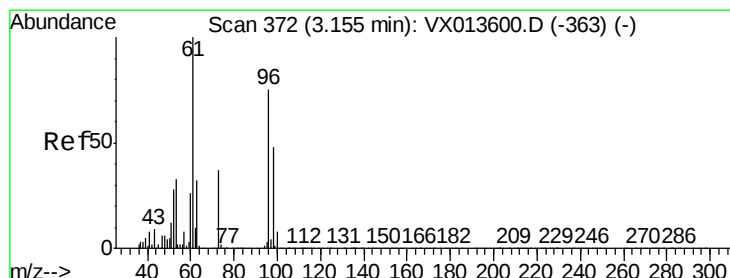
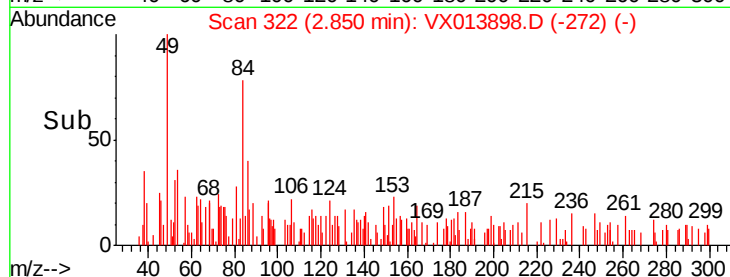
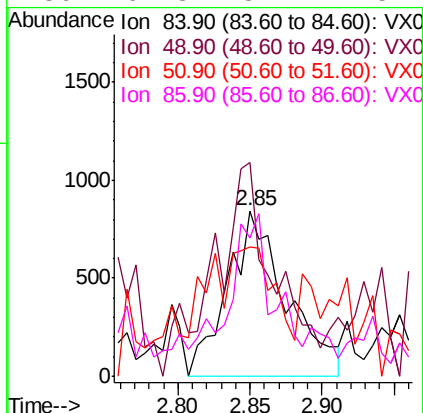
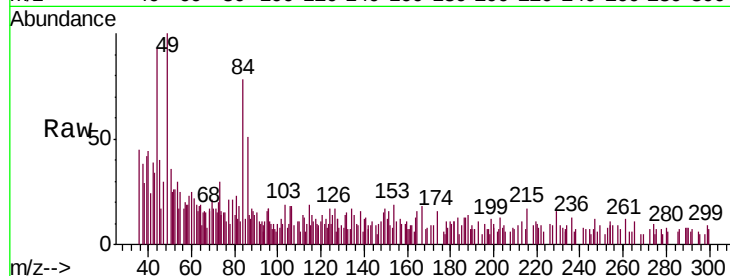
Lab File: VX013898.D

Acq: 10 Dec 2019 15:13

Instrument :
MSVOA_X
ClientSampleId :
RE122D2-20191203

Tgt Ion: 84 Resp: 2414

Ion	Ratio	Lower	Upper
84	100		
49	102.7	99.7	149.5
51	88.3	29.9	44.9#
86	67.3	52.2	78.4



#21

trans-1,2-Dichloroethene

Concen: 0.307 ug/l

RT: 3.15 min Scan# 372

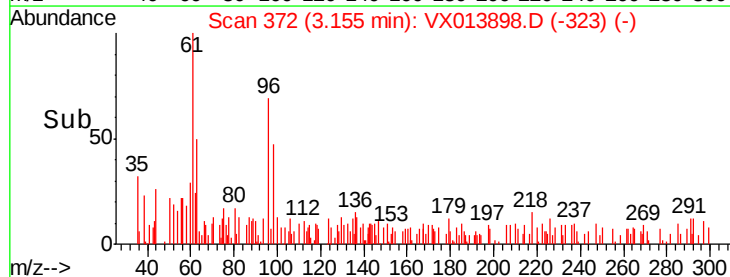
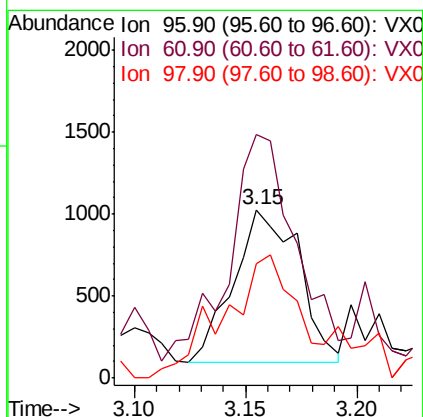
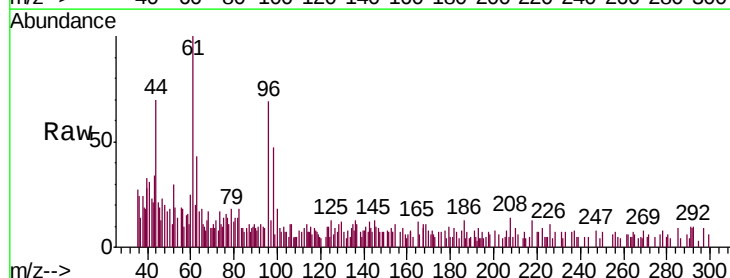
Delta R.T. -0.00 min

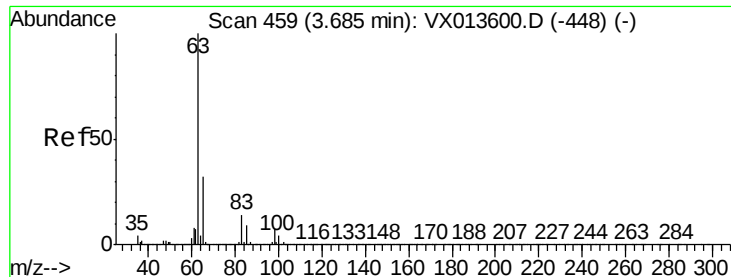
Lab File: VX013898.D

Acq: 10 Dec 2019 15:13

Tgt Ion: 96 Resp: 1883

Ion	Ratio	Lower	Upper
96	100		
61	163.8	107.2	160.8#
98	72.4	51.4	77.0





#24

1,1-Dichloroethane

Concen: 1.139 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.01 min

Lab File: VX013898.D

Acq: 10 Dec 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

RE122D2-20191203

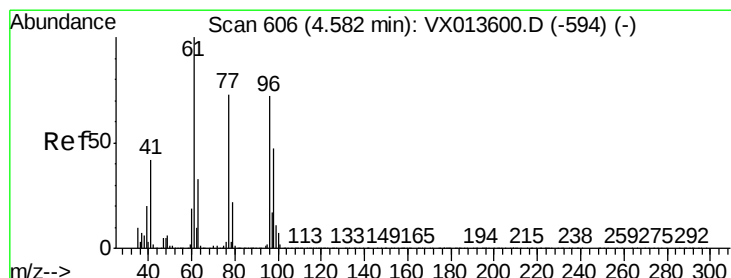
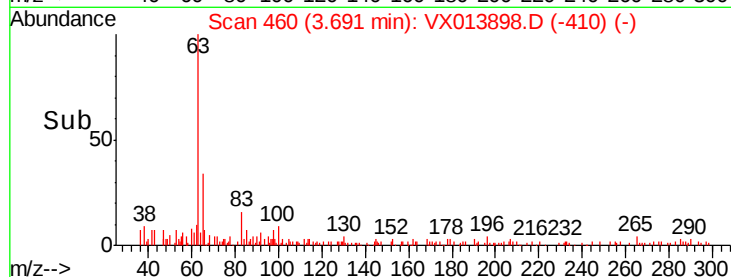
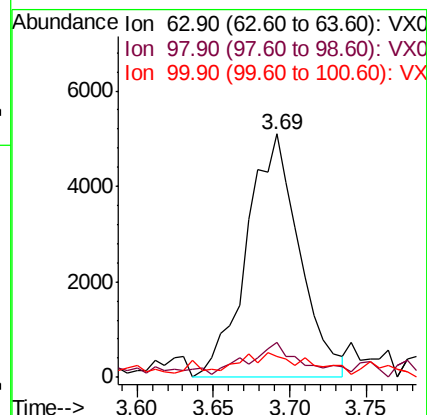
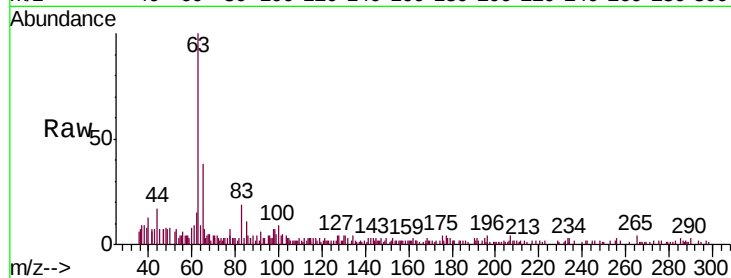
Tgt Ion: 63 Resp: 12240

Ion Ratio Lower Upper

63 100

98 10.6 3.5 10.4#

100 3.7 2.1 6.3



#27

cis-1,2-Dichloroethene

Concen: 3.780 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.01 min

Lab File: VX013898.D

Acq: 10 Dec 2019 15:13

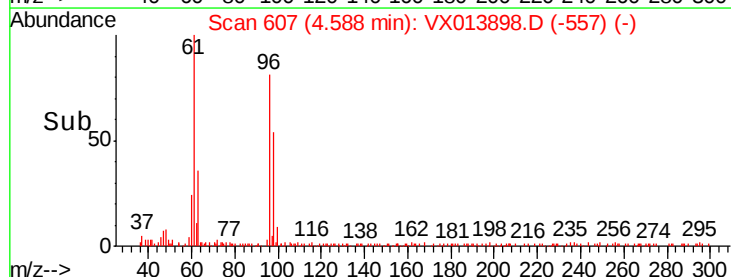
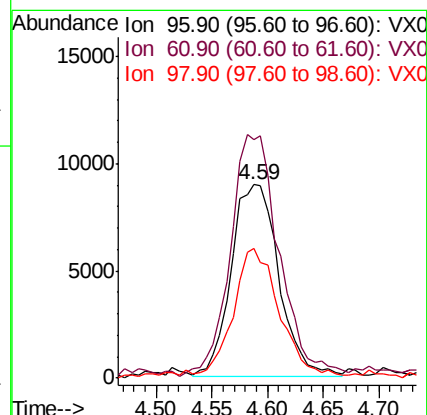
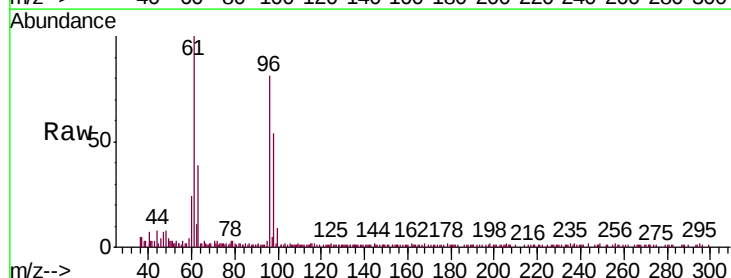
Tgt Ion: 96 Resp: 26607

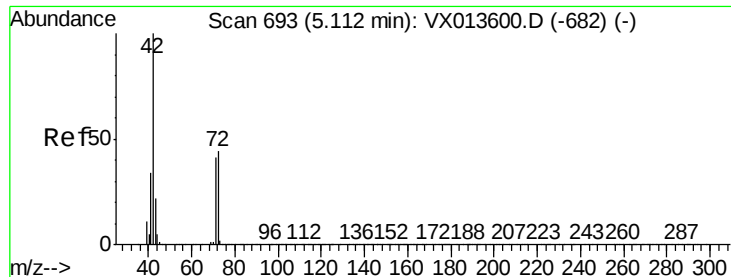
Ion Ratio Lower Upper

96 100

61 128.7 0.0 286.4

98 61.4 0.0 127.4





#29

Tetrahydrofuran

Concen: 1.752 ug/l

RT: 5.14 min Scan# 697

Delta R.T. 0.02 min

Lab File: VX013898.D

Acq: 10 Dec 2019 15:13

Instrument :

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ClientSampleId :

RE122D2-20191203

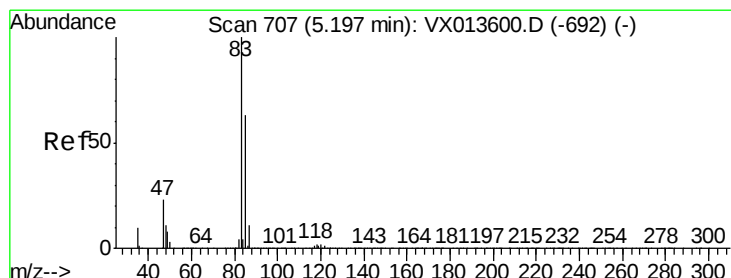
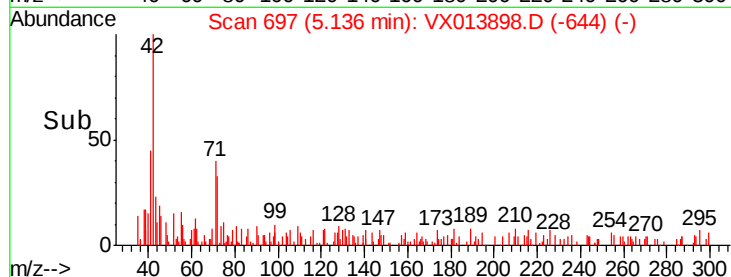
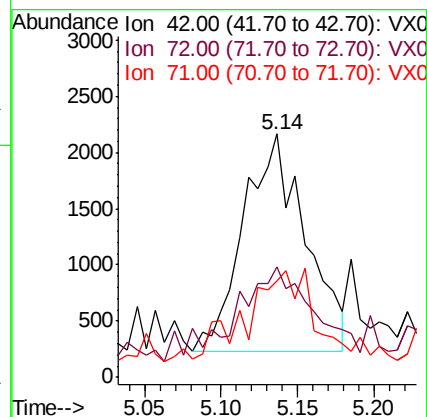
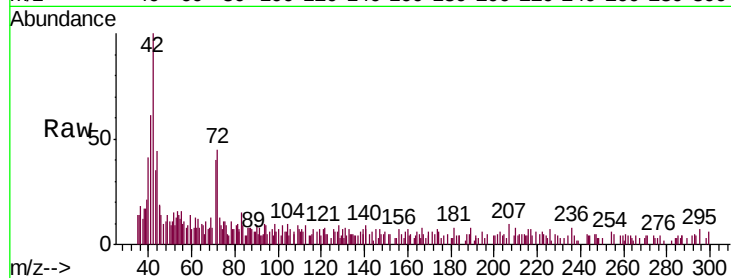
Tgt Ion: 42 Resp: 5439

Ion Ratio Lower Upper

42 100

72 56.7 36.3 54.5#

71 32.8 33.2 49.8#



#30

Chloroform

Concen: 2.115 ug/l

RT: 5.19 min Scan# 706

Delta R.T. -0.01 min

Lab File: VX013898.D

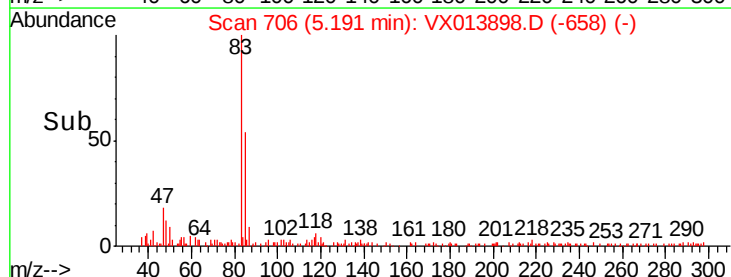
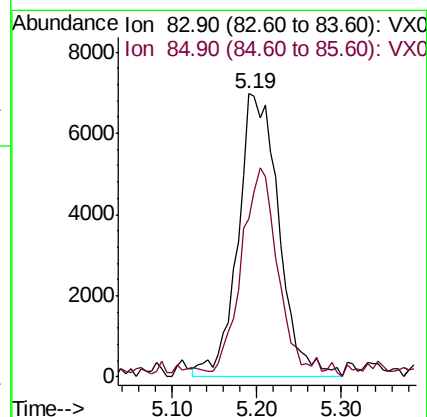
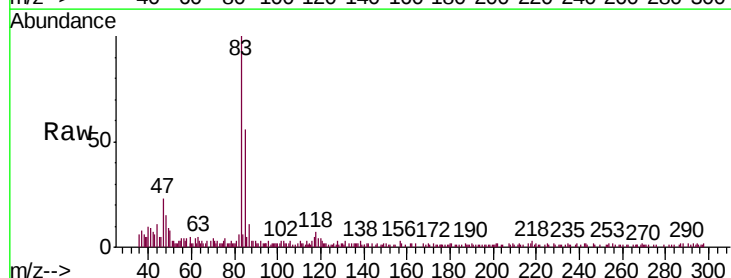
Acq: 10 Dec 2019 15:13

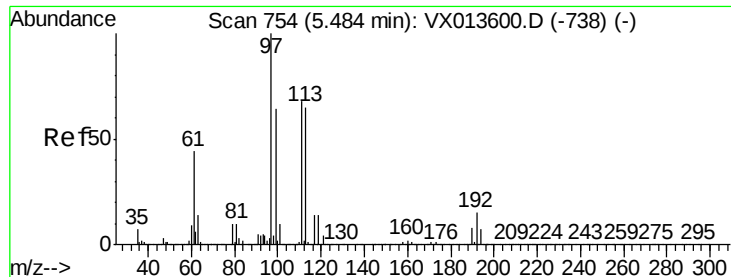
Tgt Ion: 83 Resp: 23051

Ion Ratio Lower Upper

83 100

85 57.0 50.2 75.4





#32

1,1,1-Trichloroethane

Concen: 0.393 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX013898.D

Acq: 10 Dec 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

RE122D2-20191203

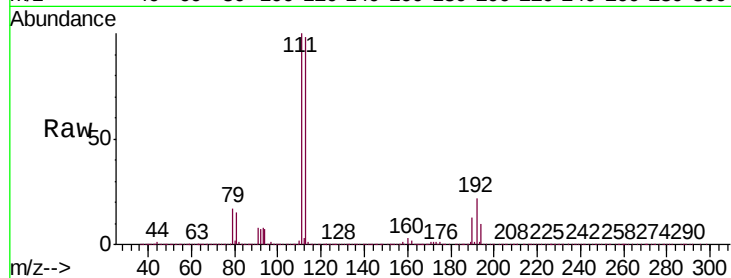
Tgt Ion: 97 Resp: 3577

Ion Ratio Lower Upper

97 100

99 0.0 51.6 77.4#

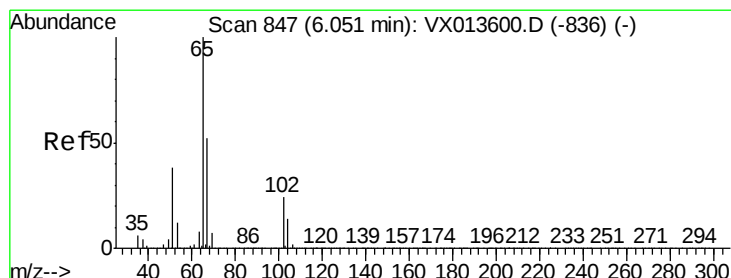
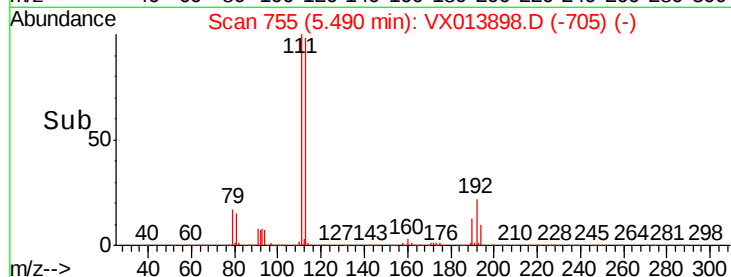
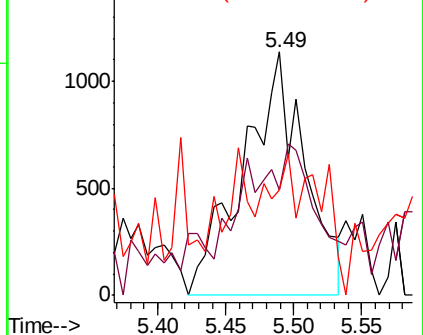
61 0.0 36.1 54.1#



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.749 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX013898.D

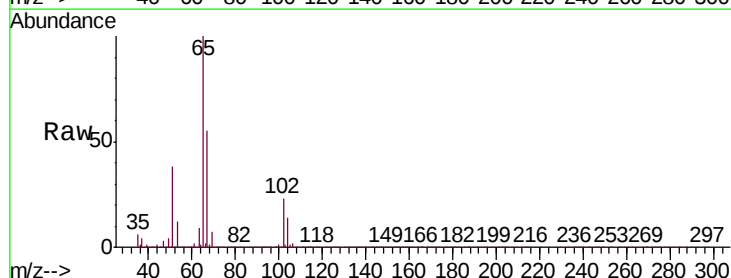
Acq: 10 Dec 2019 15:13

Tgt Ion: 65 Resp: 334507

Ion Ratio Lower Upper

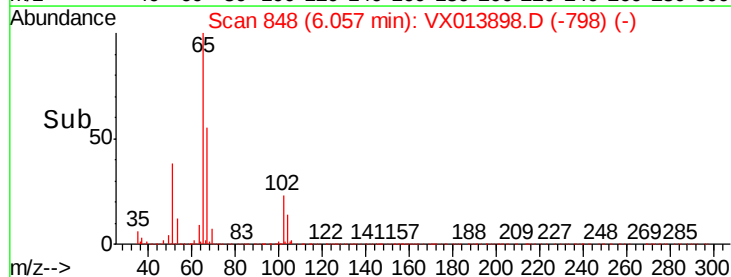
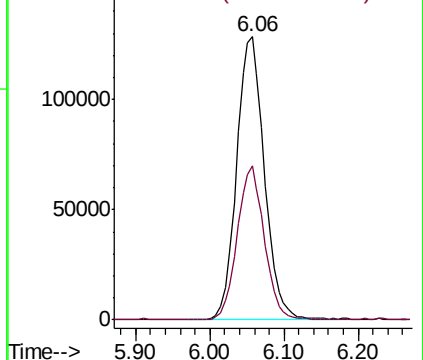
65 100

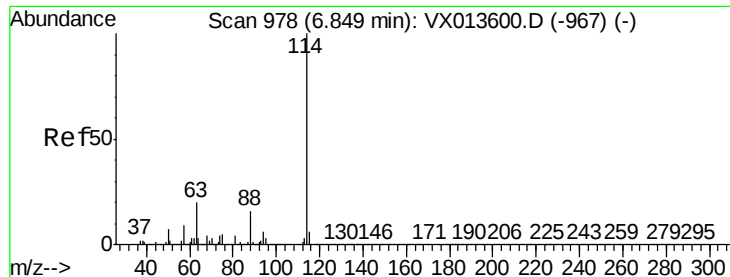
67 53.7 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

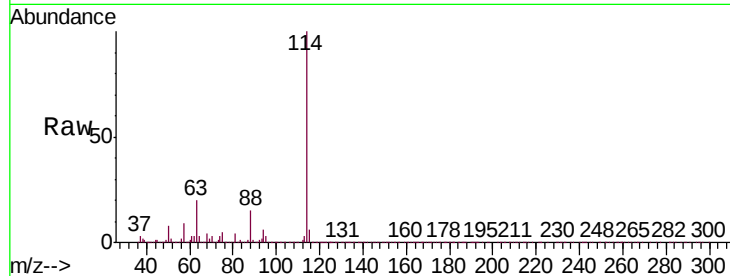




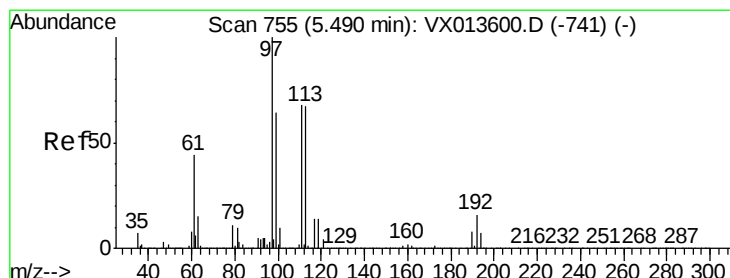
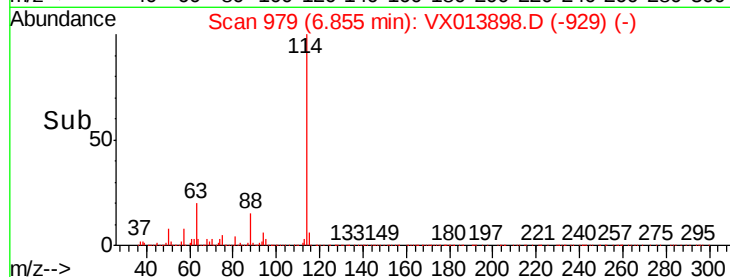
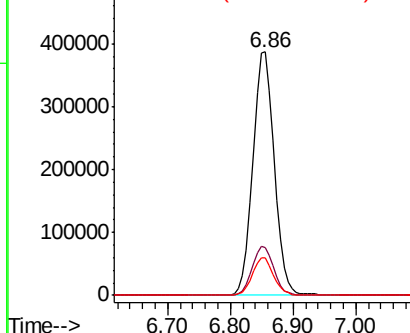
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 979
Delta R.T. 0.01 min
Lab File: VX013898.D
Acq: 10 Dec 2019 15:13

Instrument :
MSVOA_X
ClientSampleId :
RE122D2-20191203

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	39.6
88	15.4	0.0	31.4

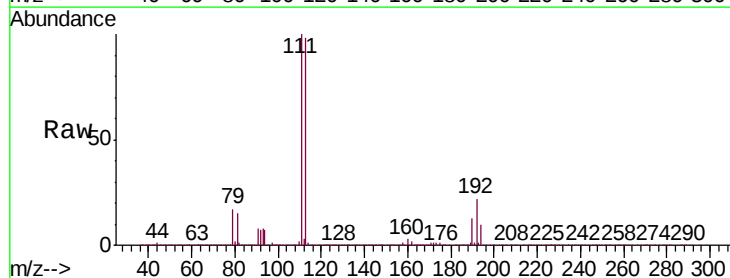


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

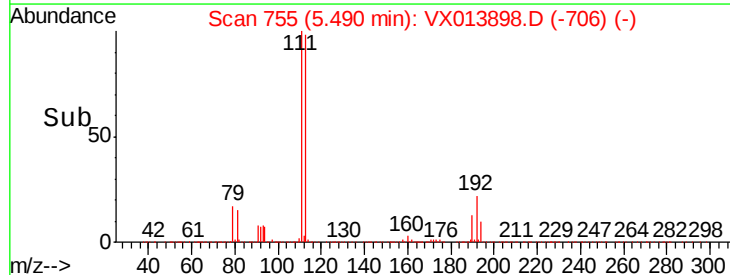
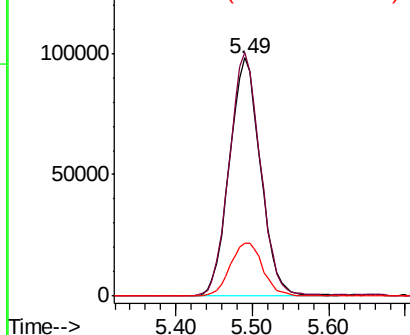


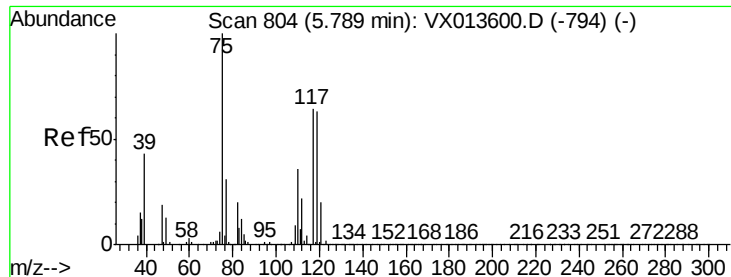
#35
Dibromofluoromethane
Concen: 48.820 ug/l
RT: 5.49 min Scan# 755
Delta R.T. -0.00 min
Lab File: VX013898.D
Acq: 10 Dec 2019 15:13

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.4	83.6	125.4
192	23.5	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: 4.914 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.15 min

Lab File: VX013898.D

Acq: 10 Dec 2019 15:13

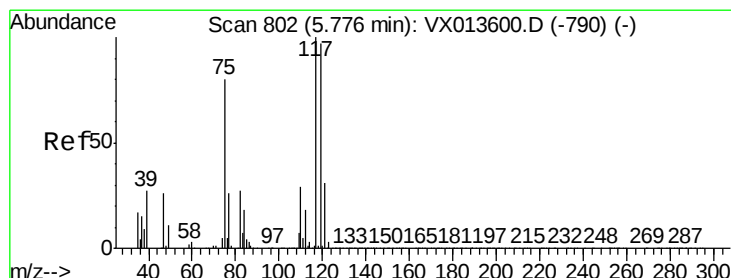
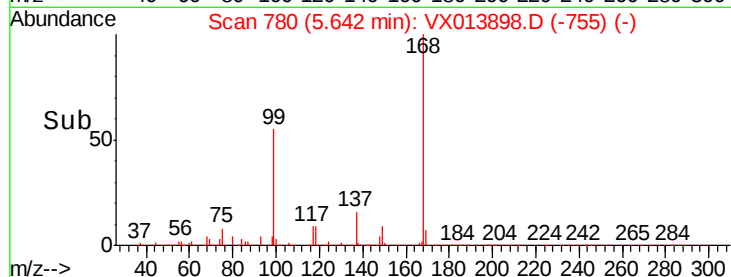
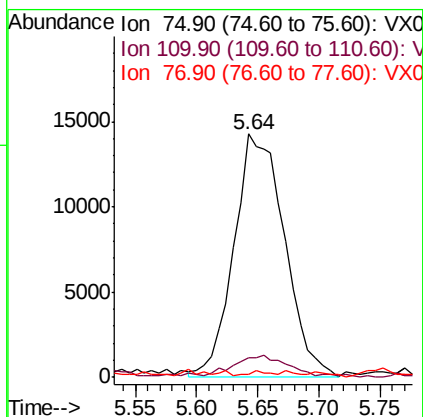
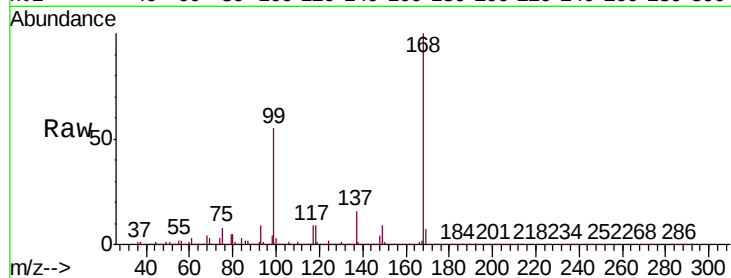
Instrument :

MSVOA_X

ClientSampleId :

RE122D2-20191203

Tgt Ion:	75	Resp:	40934
Ion	Ratio	Lower	Upper
75	100		
110	10.1	18.1	54.1#
77	0.5	24.5	36.7#



#38

Carbon Tetrachloride

Concen: 1.817 ug/l

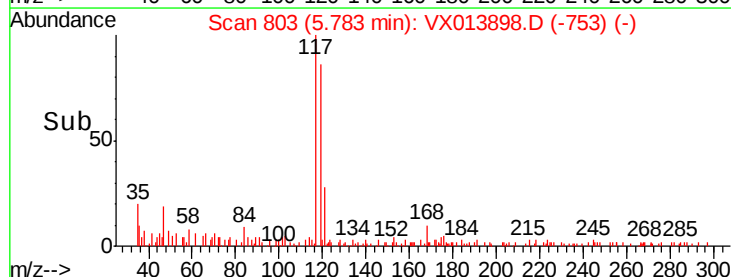
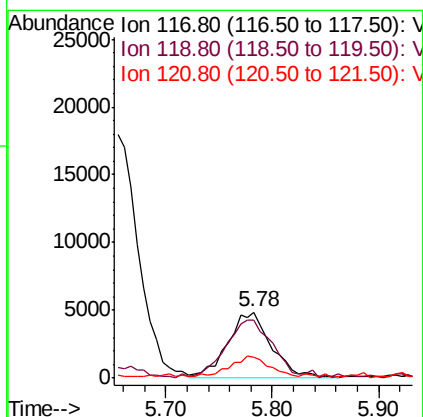
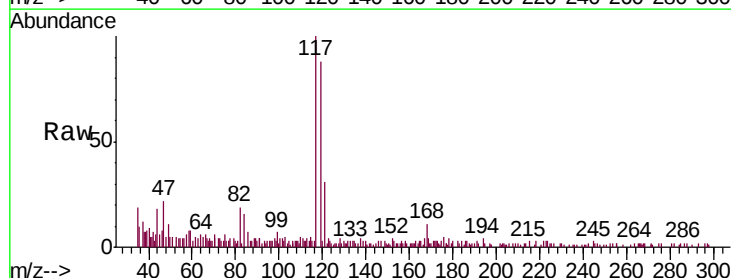
RT: 5.78 min Scan# 803

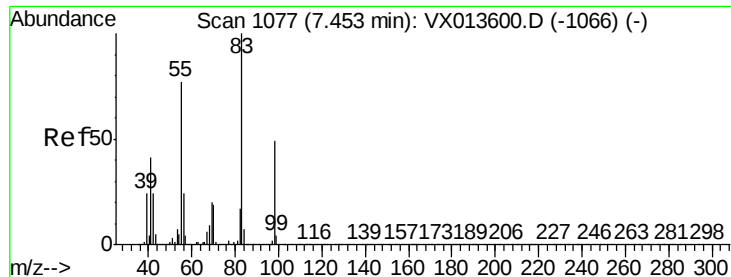
Delta R.T. 0.01 min

Lab File: VX013898.D

Acq: 10 Dec 2019 15:13

Tgt Ion:	117	Resp:	13956
Ion	Ratio	Lower	Upper
117	100		
119	87.6	77.5	116.3
121	26.7	25.0	37.6





#39

Methylcyclohexane

Concen: 26.703 ug/l

RT: 7.22 min Scan# 1038

Delta R.T. -0.24 min

Lab File: VX013898.D

Acq: 10 Dec 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

RE122D2-20191203

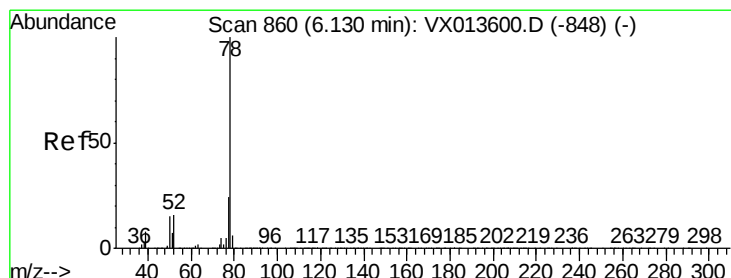
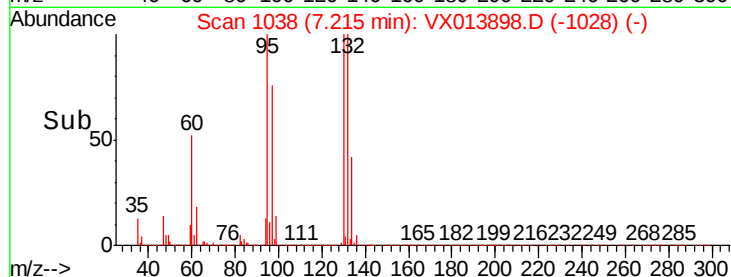
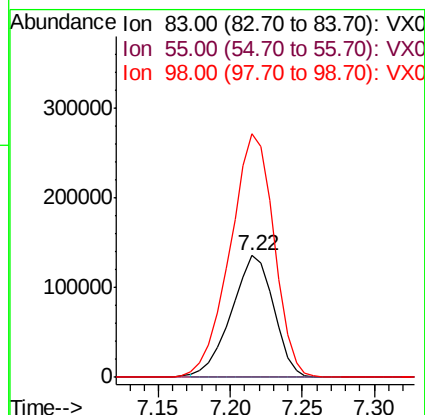
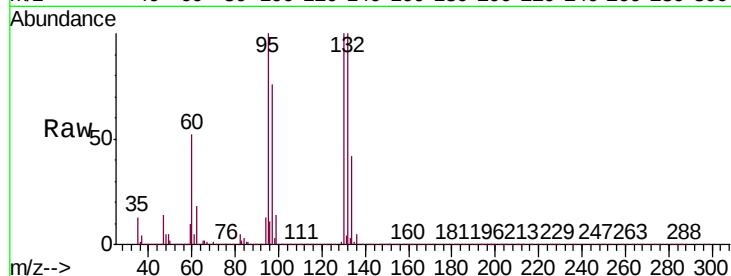
Tgt Ion: 83 Resp: 274937

Ion Ratio Lower Upper

83 100

55 0.0 61.9 92.9#

98 200.0 39.4 59.0#



#40

Benzene

Concen: 0.316 ug/l

RT: 6.14 min Scan# 862

Delta R.T. 0.01 min

Lab File: VX013898.D

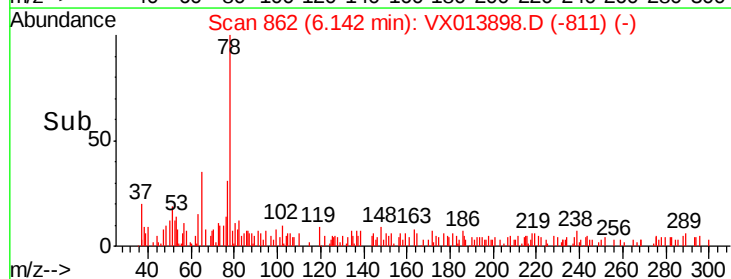
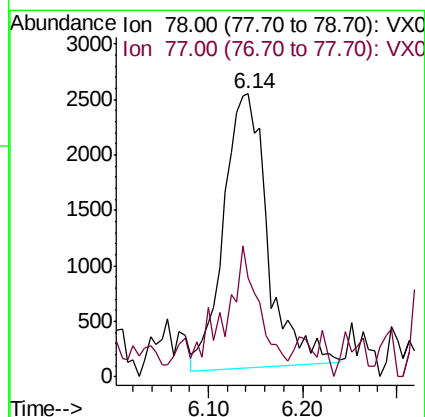
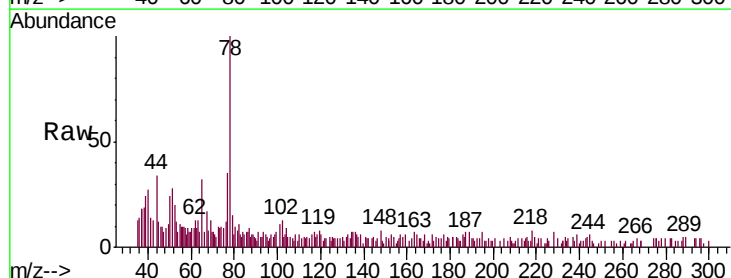
Acq: 10 Dec 2019 15:13

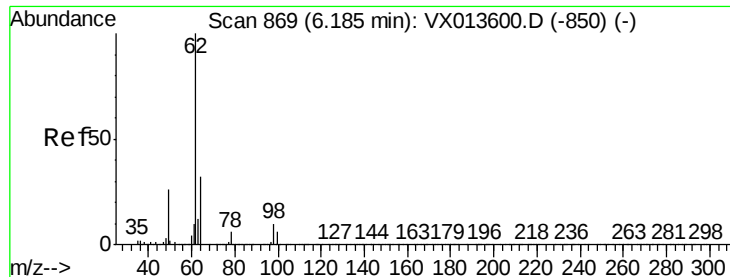
Tgt Ion: 78 Resp: 8028

Ion Ratio Lower Upper

78 100

77 30.3 19.0 28.4#





#42

1,2-Dichloroethane

Concen: 0.691 ug/l

RT: 6.19 min Scan# 870

Delta R.T. 0.01 min

Lab File: VX013898.D

Acq: 10 Dec 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

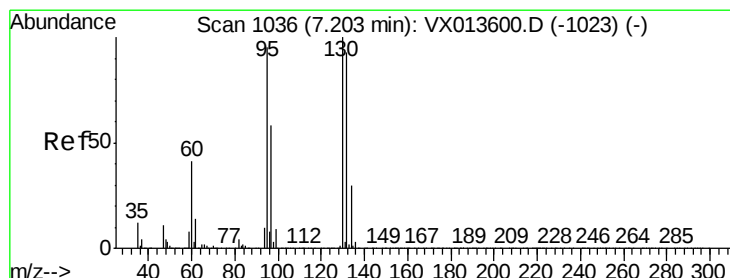
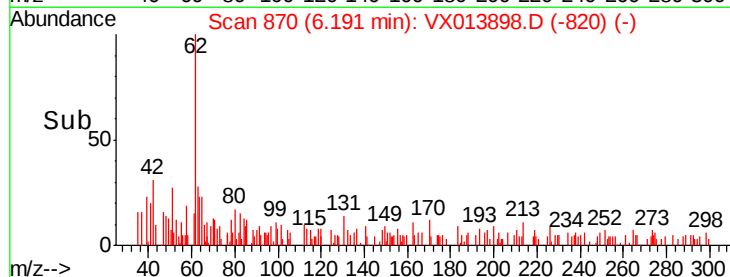
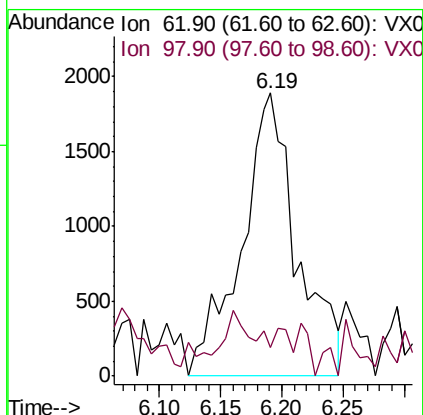
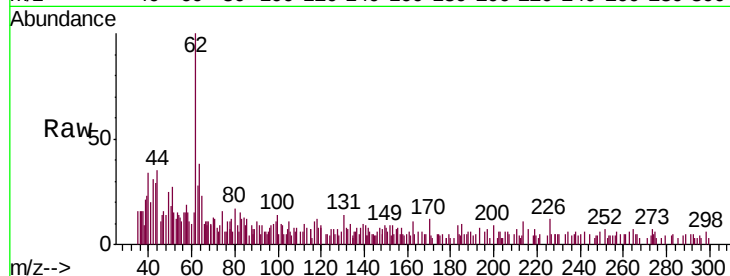
RE122D2-20191203

Tgt Ion: 62 Resp: 5982

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.8



#44

Trichloroethene

Concen: 2992.256 ug/l

RT: 7.22 min Scan# 1038

Delta R.T. 0.01 min

Lab File: VX013898.D

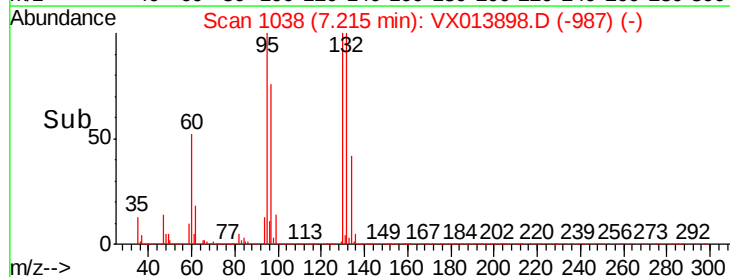
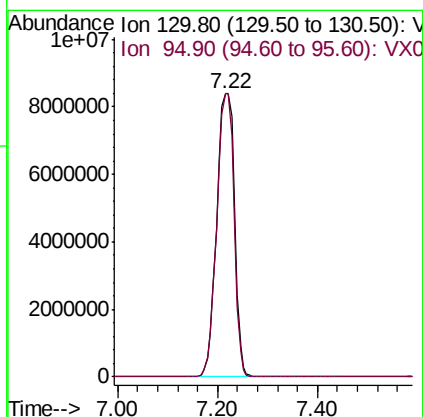
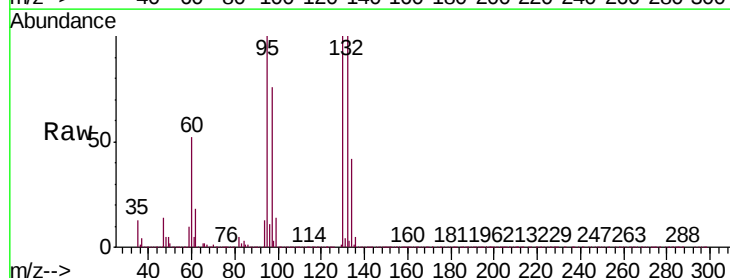
Acq: 10 Dec 2019 15:13

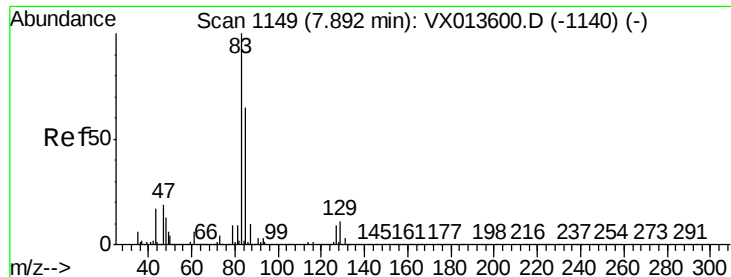
Tgt Ion: 130 Resp: 20833391

Ion Ratio Lower Upper

130 100

95 100.0 0.0 190.8





#47

Bromodichloromethane

Concen: 0.379 ug/l

RT: 7.89 min Scan# 1149

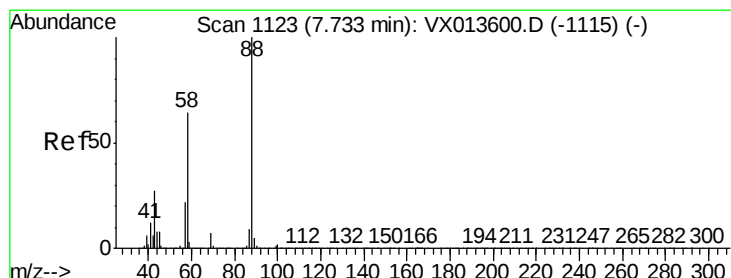
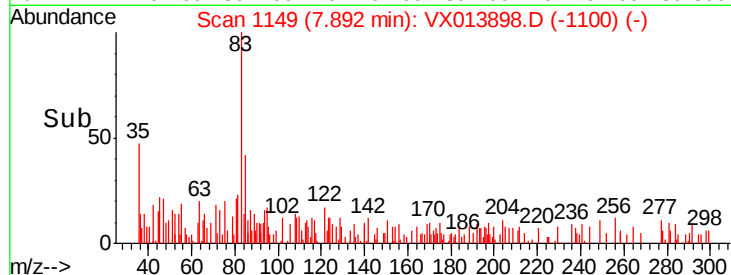
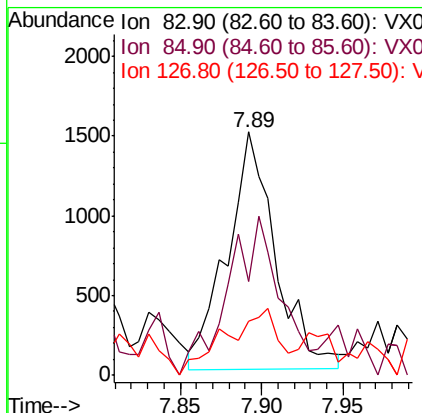
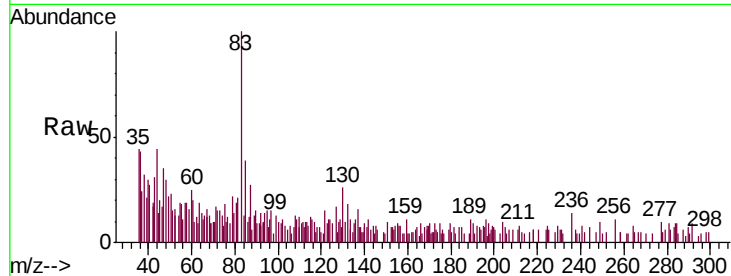
Delta R.T. -0.00 min

Lab File: VX013898.D

Acq: 10 Dec 2019 15:13

Instrument :
MSVOA_X
ClientSampleId :
RE122D2-20191203

Tgt Ion:	83	Resp:	3087
Ion	Ratio	Lower	Upper
83	100		
85	31.7	52.1	78.1#
127	18.3	7.0	10.4#



#49

1,4-Dioxane

Concen: 16.114 ug/l

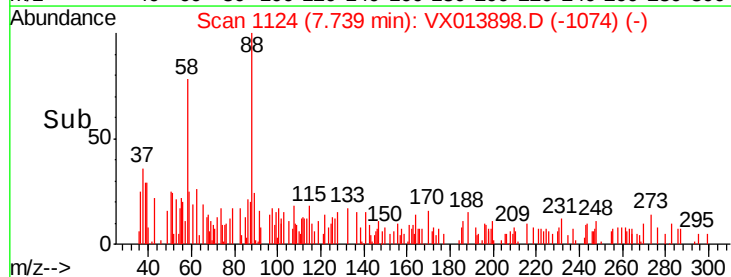
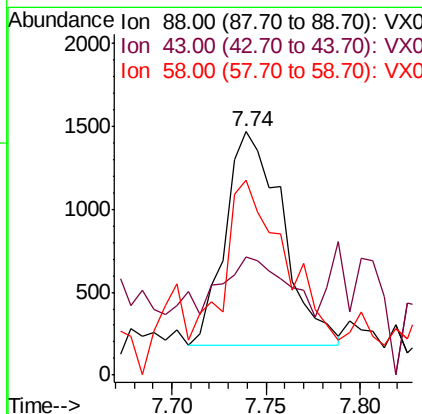
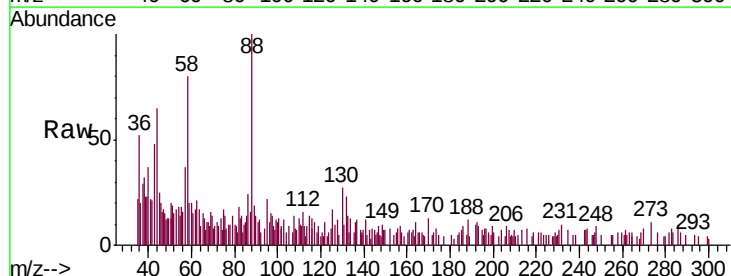
RT: 7.74 min Scan# 1124

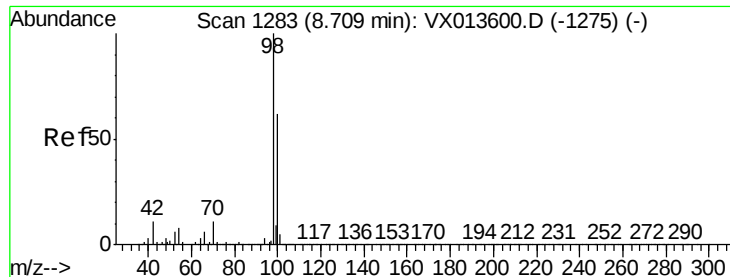
Delta R.T. 0.01 min

Lab File: VX013898.D

Acq: 10 Dec 2019 15:13

Tgt Ion:	88	Resp:	2696
Ion	Ratio	Lower	Upper
88	100		
43	29.8	25.8	38.6
58	86.5	54.6	82.0#





#50

Toluene-d8

Concen: 48.446 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013898.D

Acq: 10 Dec 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

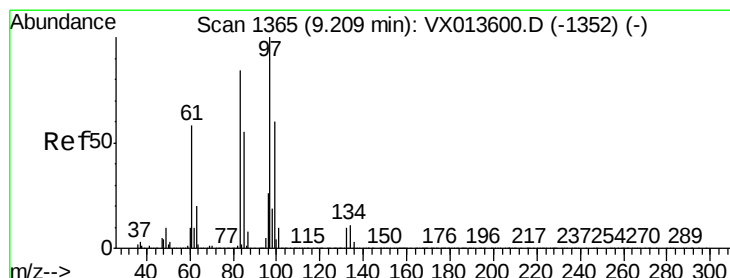
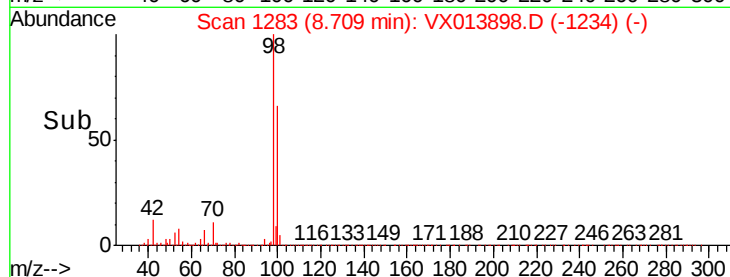
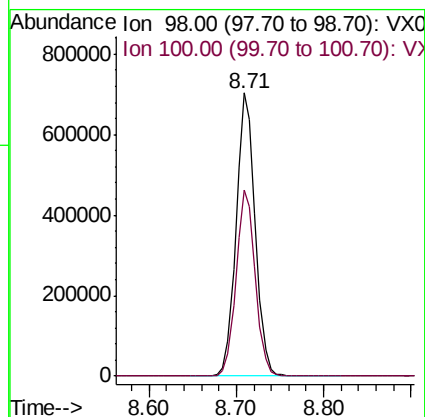
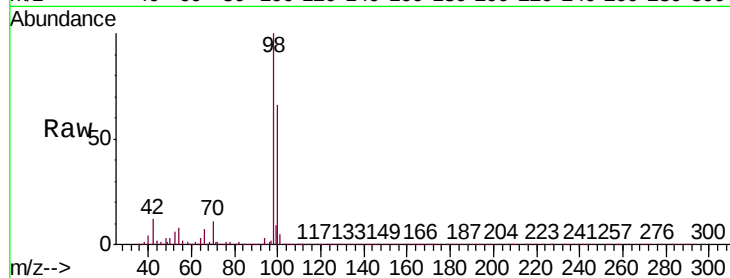
RE122D2-20191203

Tgt Ion: 98 Resp: 1070726

Ion Ratio Lower Upper

98 100

100 66.1 53.1 79.7



#55

1,1,2-Trichloroethane

Concen: 2.278 ug/l

RT: 9.21 min Scan# 1366

Delta R.T. 0.01 min

Lab File: VX013898.D

Acq: 10 Dec 2019 15:13

Tgt Ion: 97 Resp: 14465

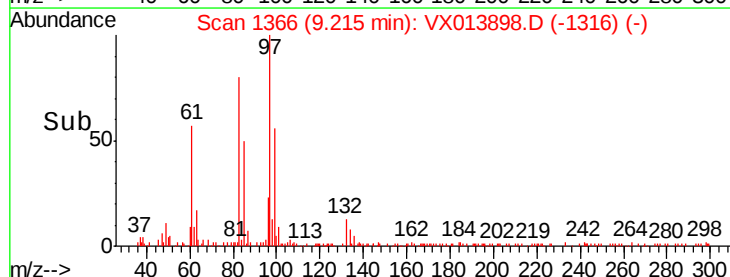
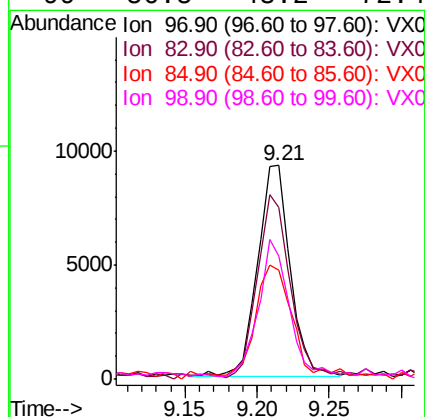
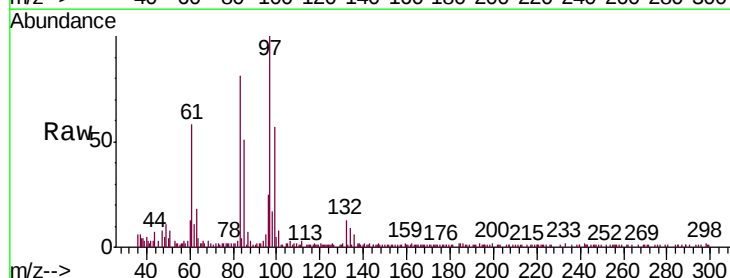
Ion Ratio Lower Upper

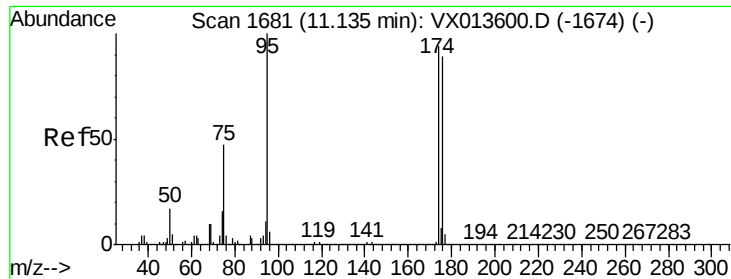
97 100

83 79.9 67.3 100.9

85 47.9 43.6 65.4

99 56.5 48.2 72.4

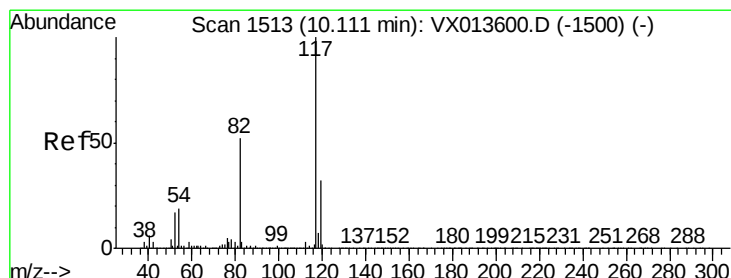
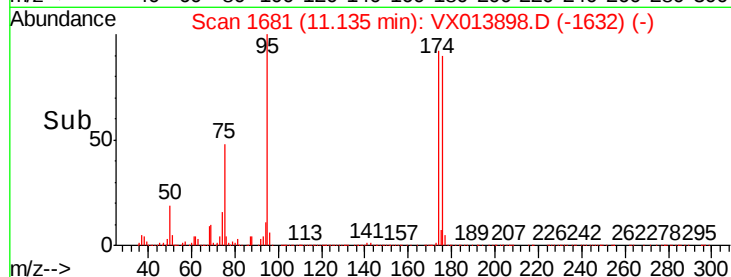
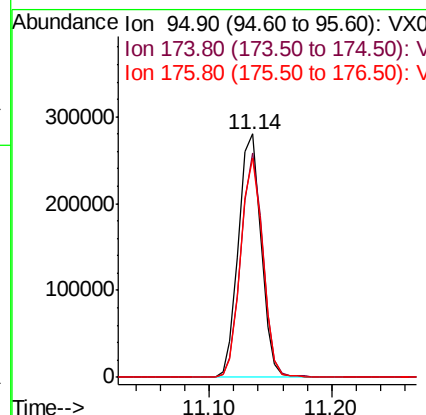
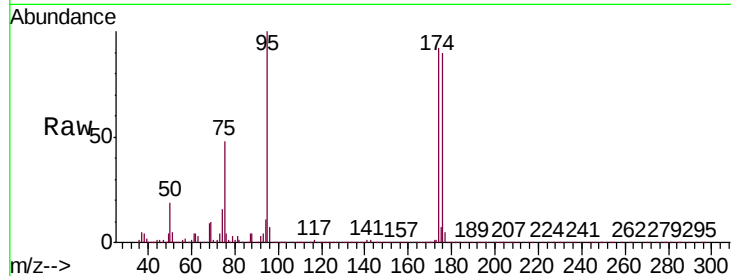




#62
4-Bromofluorobenzene
Concen: 44.923 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VX013898.D
Acq: 10 Dec 2019 15:13

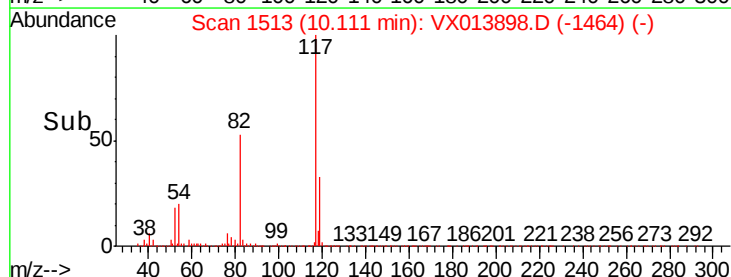
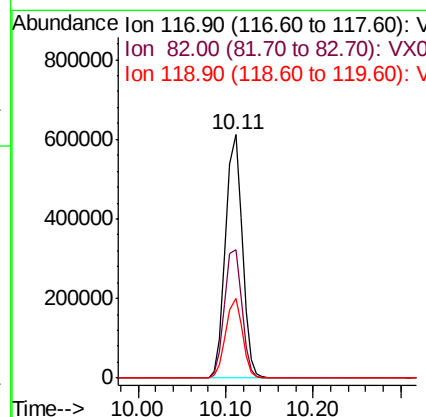
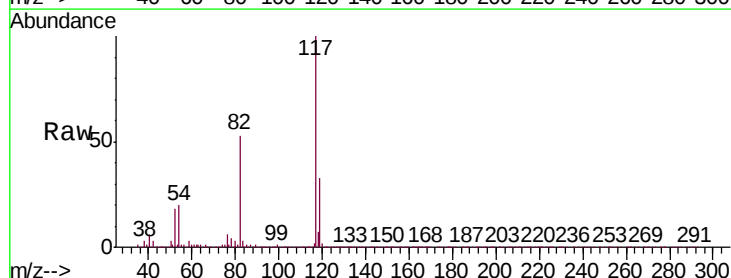
Instrument :
MSVOA_X
ClientSampleId :
RE122D2-20191203

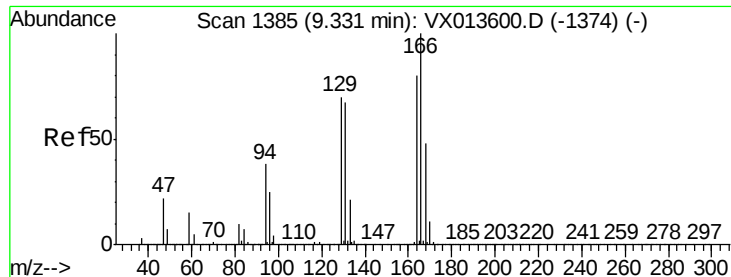
Tgt Ion: 95 Resp: 358033
Ion Ratio Lower Upper
95 100
174 89.2 0.0 180.0
176 87.9 0.0 173.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013898.D
Acq: 10 Dec 2019 15:13

Tgt Ion: 117 Resp: 811765
Ion Ratio Lower Upper
117 100
82 52.6 41.8 62.8
119 33.0 25.8 38.8

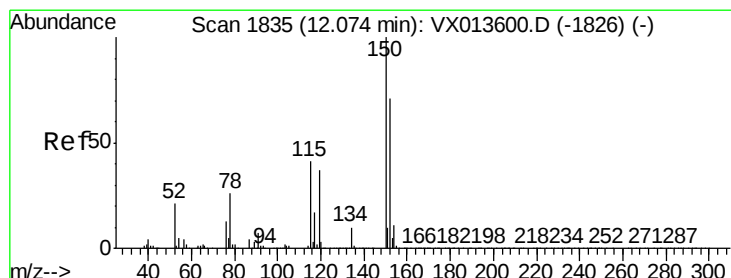
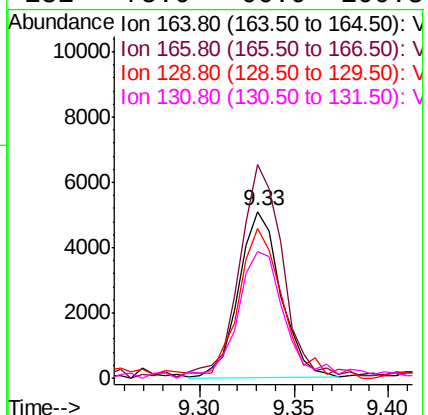
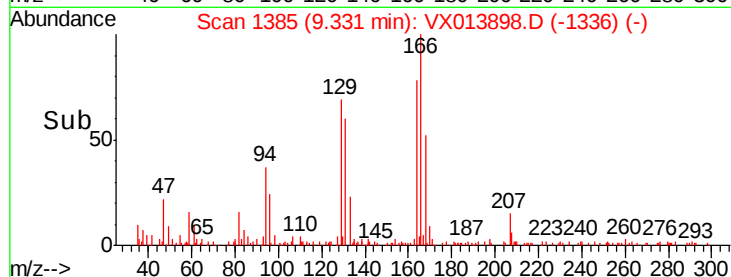
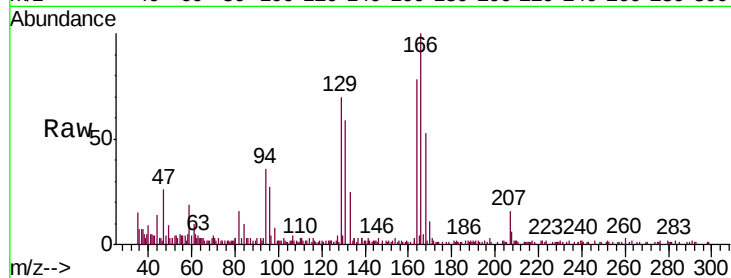




#64
Tetrachloroethene
Concen: 1.293 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX013898.D
Acq: 10 Dec 2019 15:13

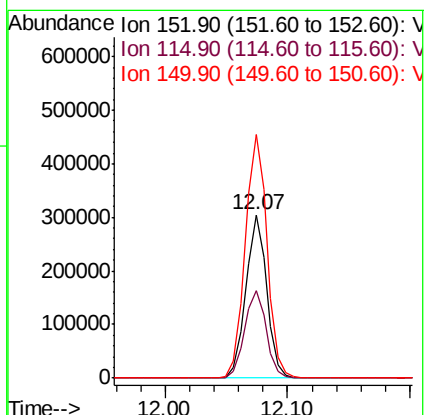
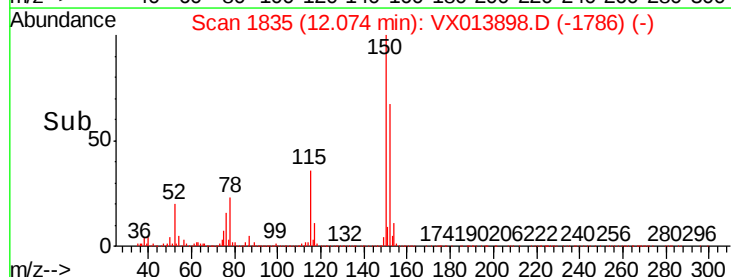
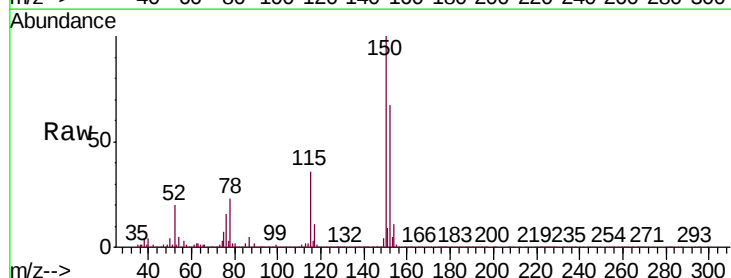
Instrument :
MSVOA_X
ClientSampleId :
RE122D2-20191203

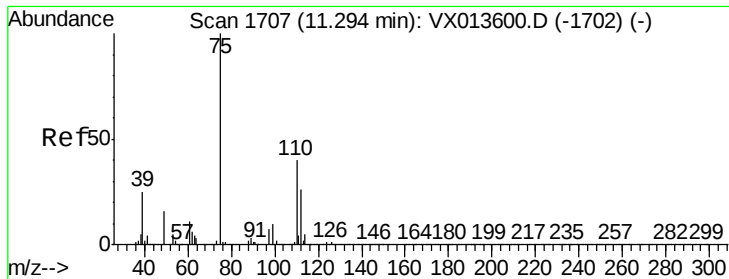
Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.0	99.7	149.5
129	87.5	70.1	105.1
131	75.0	66.9	100.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013898.D
Acq: 10 Dec 2019 15:13

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.6	38.4	115.1
150	155.8	0.0	346.8





#76

1,2,3-Trichloropropane

Concen: 22.147 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013898.D

Acq: 10 Dec 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

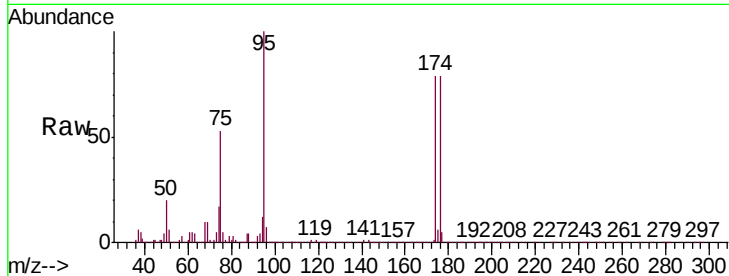
RE122D2-20191203

Tgt Ion: 75 Resp: 178837

Ion Ratio Lower Upper

75 100

77 1.2 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

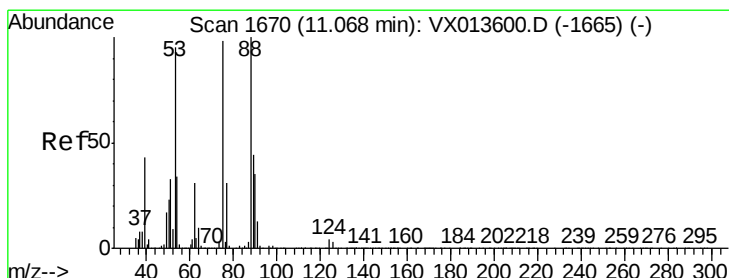
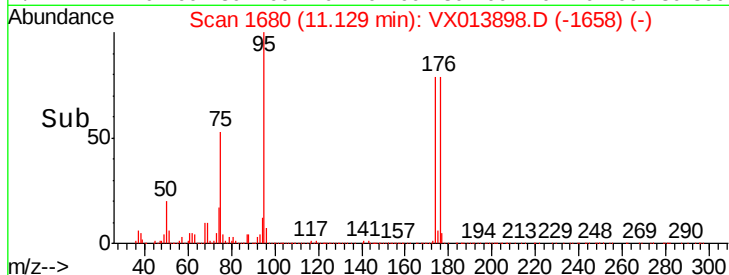
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 60.590 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013898.D

Acq: 10 Dec 2019 15:13

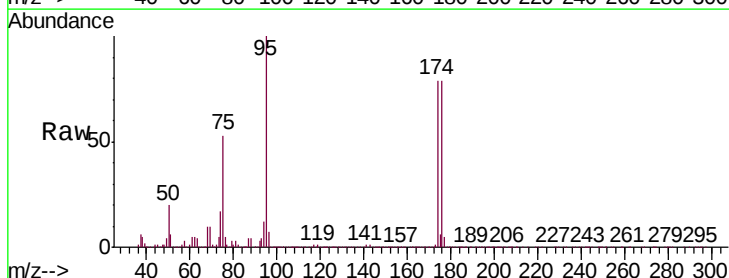
Tgt Ion: 75 Resp: 178837

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

11.13

150000

100000

50000

0

Time-->

