

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120919\
 Data File : VX0137858.D
 Acq On : 09 Dec 2019 18:07
 Operator : JC/SP
 Sample : K6185-16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 10 03:27:51 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	610260	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	946835	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	839941	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	360711	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	337253	47.61	ug/l	0.00
Spiked Amount			Recovery	=	95.22%	
35) Dibromofluoromethane	5.49	113	282861	48.32	ug/l	0.00
Spiked Amount			Recovery	=	96.64%	
50) Toluene-d8	8.71	98	1100624	48.26	ug/l	0.00
Spiked Amount			Recovery	=	96.52%	
62) 4-Bromofluorobenzene	11.14	95	366862	44.61	ug/l	0.00
Spiked Amount			Recovery	=	89.22%	

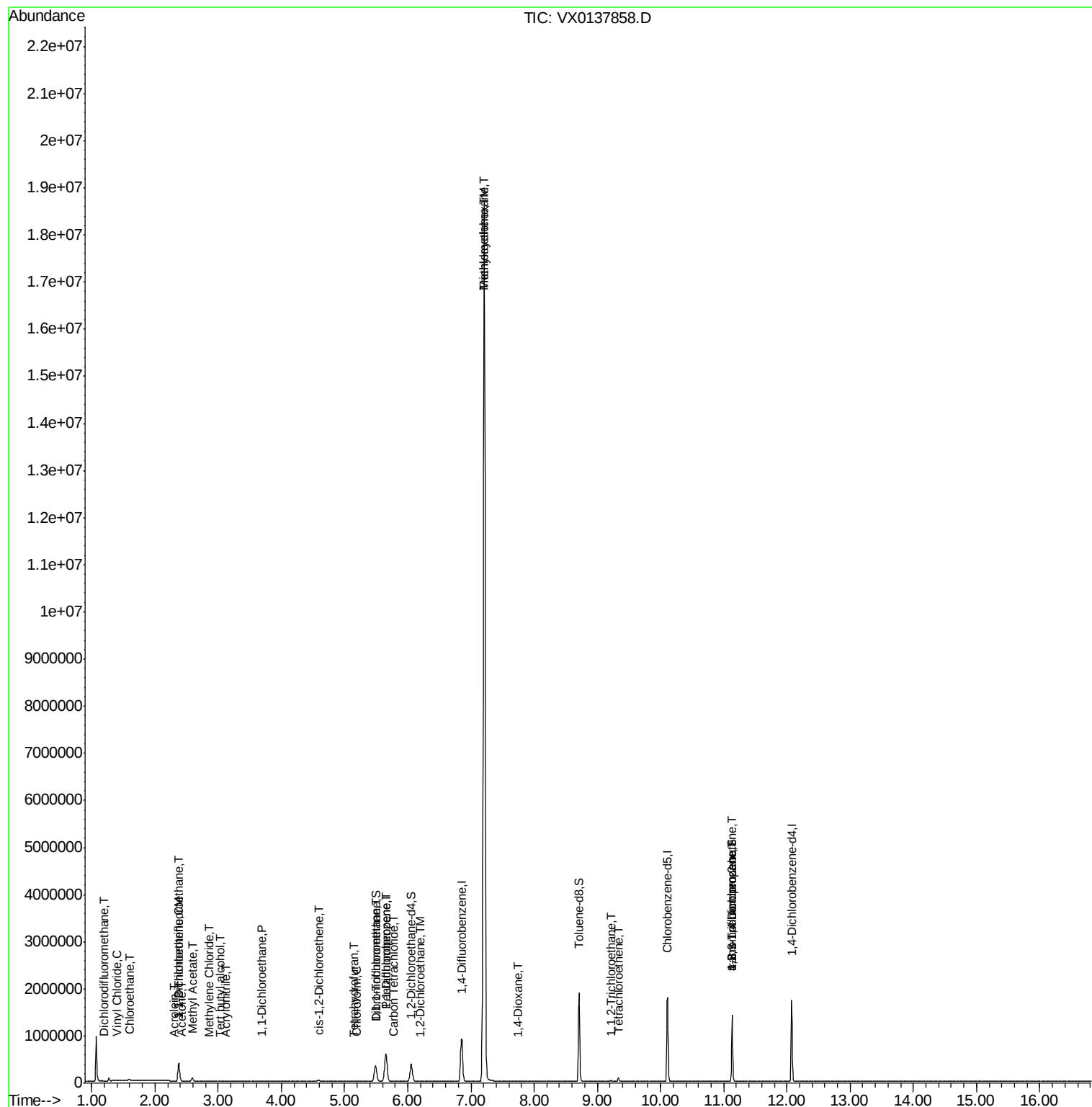
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	1820	0.268	ug/l	86
4) Vinyl Chloride	1.40	62	5925	0.691	ug/l #	75
6) Chloroethane	1.59	64	8439	1.729	ug/l #	56
9) 1,1,2-Trichlorotrifluoroet	2.37	101	134310	23.084	ug/l	99
11) Tert butyl alcohol	3.03	59	3983	2.278	ug/l #	6
12) 1,1-Dichloroethene	2.37	96	36959	6.364	ug/l	97
13) Acrolein	2.29	56	321	6.272	ug/l #	57
15) Acrylonitrile	3.12	53	734	0.203	ug/l #	17
16) Acetone	2.43	43	5603	1.602	ug/l	89
18) Methyl Acetate	2.59	43	23788	2.443	ug/l #	54
20) Methylene Chloride	2.86	84	1952	0.291	ug/l #	41
24) 1,1-Dichloroethane	3.69	63	16511	1.488	ug/l	96
27) cis-1,2-Dichloroethene	4.59	96	19105	2.629	ug/l	85
29) Tetrahydrofuran	5.15	42	3502	1.093	ug/l #	48
30) Chloroform	5.20	83	9810	0.872	ug/l	93
32) 1,1,1-Trichloroethane	5.49	97	3617	0.385	ug/l #	26
36) 1,1-Dichloropropene	5.65	75	42279	4.919	ug/l #	52
38) Carbon Tetrachloride	5.78	117	10480	1.322	ug/l	89
39) Methylcyclohexane	7.21	83	80358	7.564	ug/l #	1
42) 1,2-Dichloroethane	6.19	62	1924	0.216	ug/l #	70
44) Trichloroethene	7.21	130	7287317	1014.347	ug/l	98
49) 1,4-Dioxane	7.75	88	800	4.634	ug/l #	1
55) 1,1,2-Trichloroethane	9.21	97	5414	0.826	ug/l	92
64) Tetrachloroethene	9.33	164	15889	2.537	ug/l #	86
76) 1,2,3-Trichloropropane	11.13	75	180535	22.252	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	180535	60.879	ug/l #	11

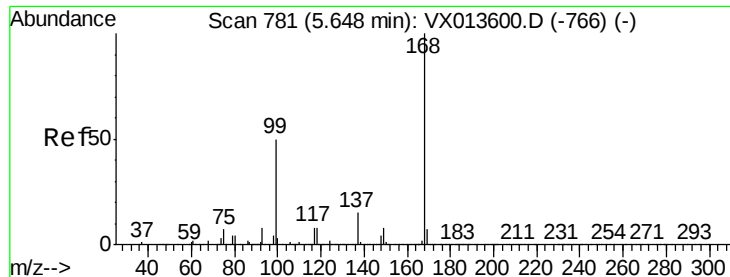
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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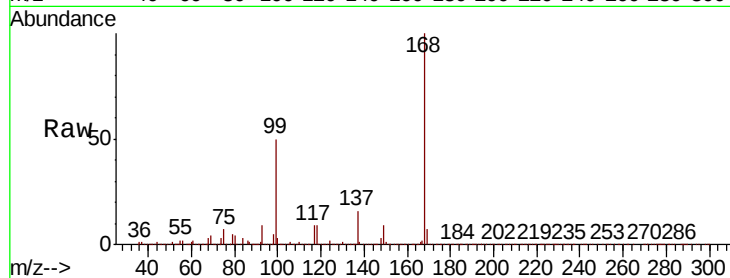




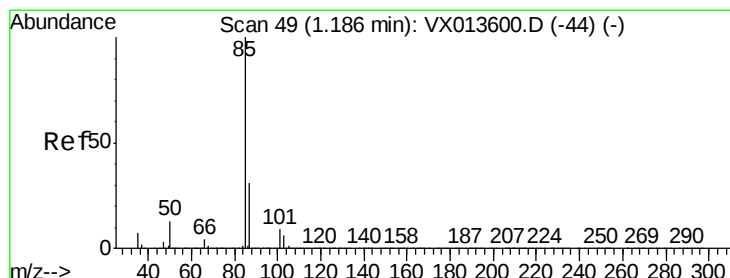
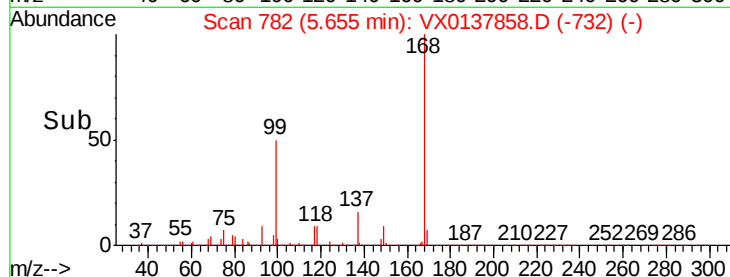
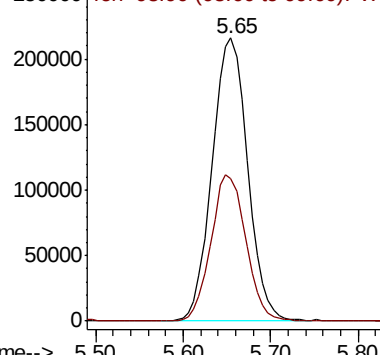
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.01 min
Lab File: VX0137858.D
Acq: 09 Dec 2019 18:07

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 610260
Ion Ratio Lower Upper
168 100
99 50.2 39.8 59.8

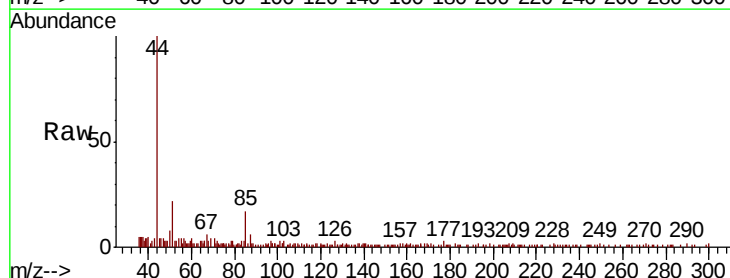


Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VX0

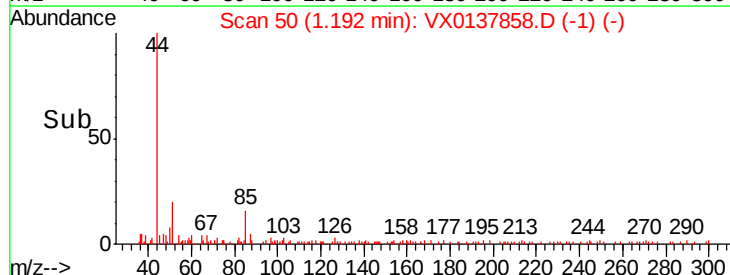
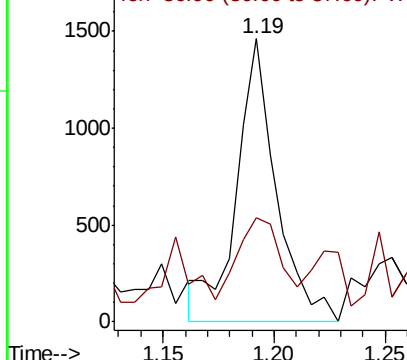


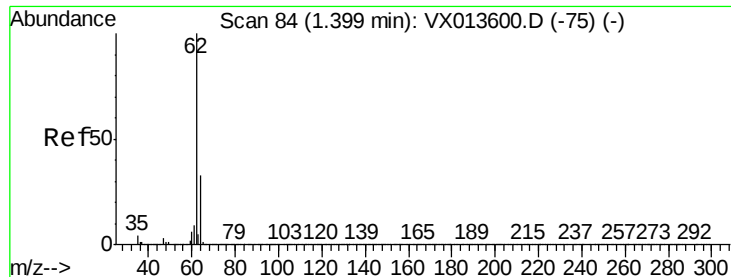
#2
Dichlorodifluoromethane
Concen: 0.268 ug/l
RT: 1.19 min Scan# 50
Delta R.T. 0.01 min
Lab File: VX0137858.D
Acq: 09 Dec 2019 18:07

Tgt Ion: 85 Resp: 1820
Ion Ratio Lower Upper
85 100
87 23.5 15.7 47.1



Abundance Ion 84.90 (84.60 to 85.60): VX0
Ion 86.90 (86.60 to 87.60): VX0





#4

Vinyl Chloride

Concen: 0.691 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX0137858.D

Acq: 09 Dec 2019 18:07

Instrument :

MSVOA_X

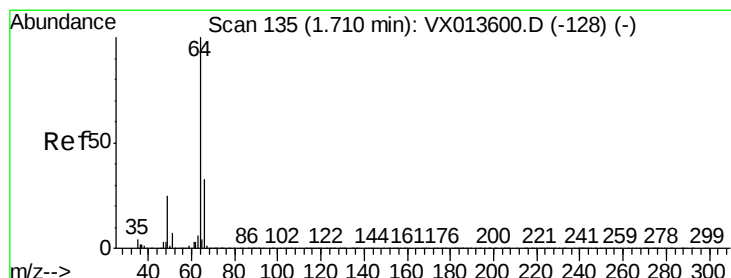
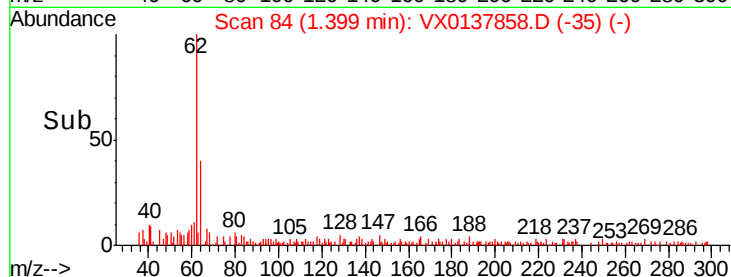
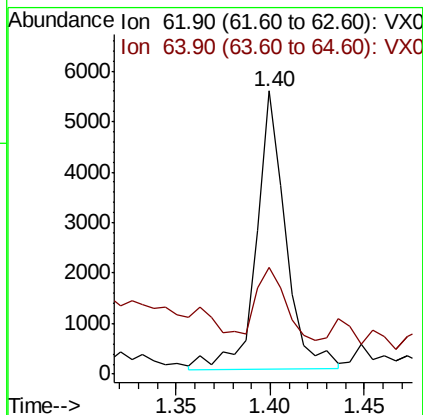
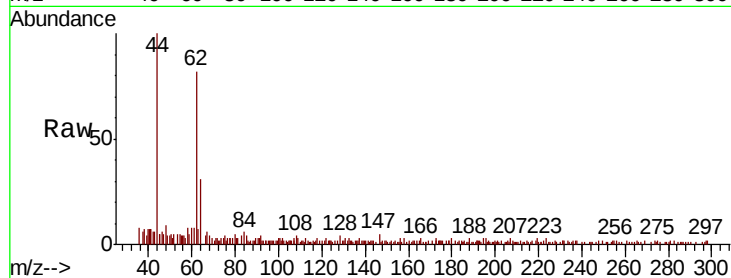
ClientSampleId :

Tot Ion: 62 Resp: 5925

Ion Ratio Lower Upper

62 100

64 18.7 26.0 39.0#



#6

Chloroethane

Concen: 1.729 ug/l

RT: 1.59 min Scan# 116

Delta R.T. -0.12 min

Lab File: VX0137858.D

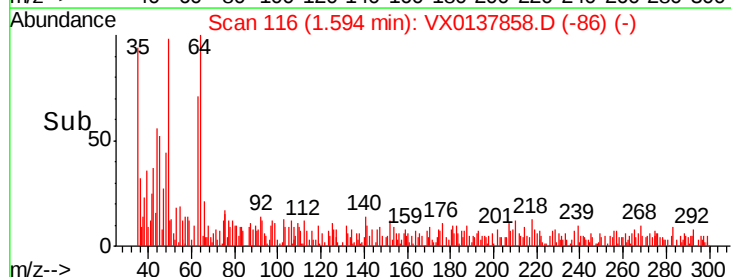
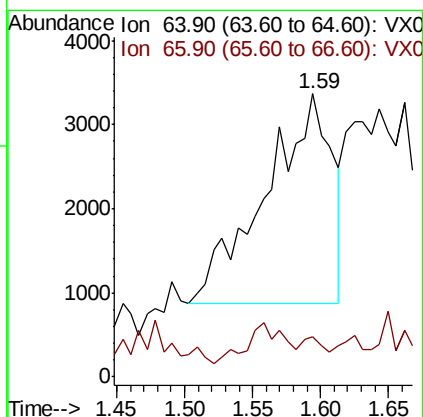
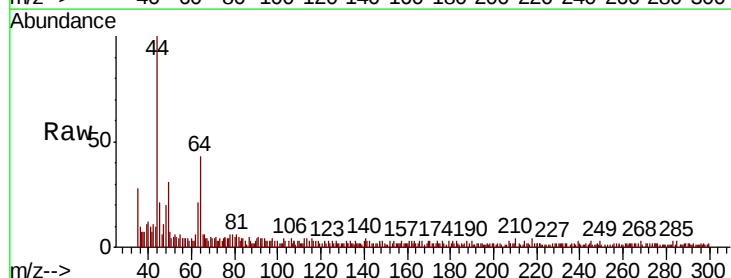
Acq: 09 Dec 2019 18:07

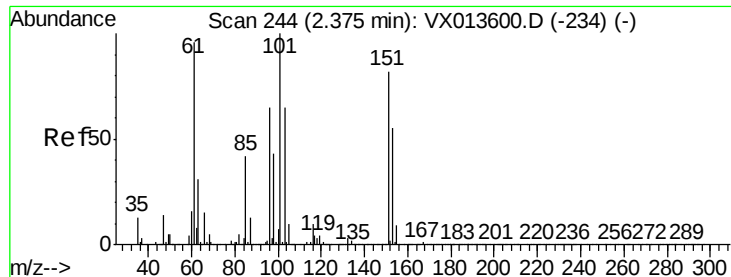
Tgt Ion: 64 Resp: 8439

Ion Ratio Lower Upper

64 100

66 8.4 26.7 40.1#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.084 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.00 min

Lab File: VX0137858.D

Acq: 09 Dec 2019 18:07

Instrument :

MSVOA_X

ClientSampleId :

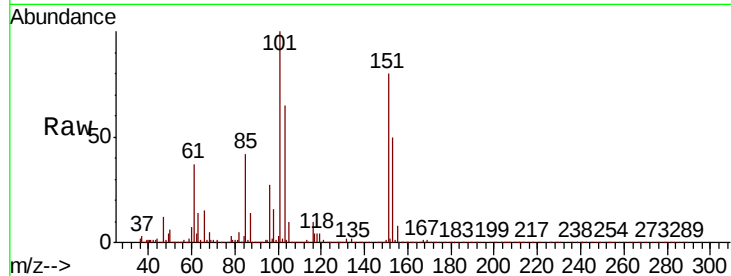
Tot Ion:101 Resp: 134310

Ion Ratio Lower Upper

101 100

85 42.4 33.9 50.9

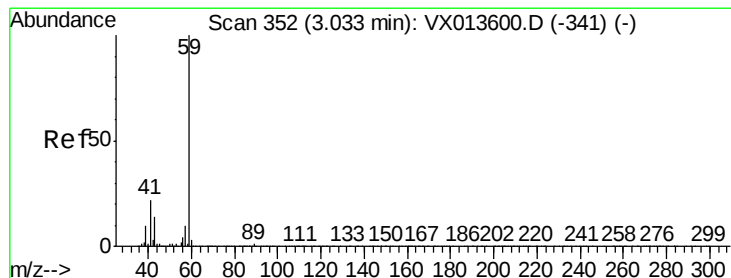
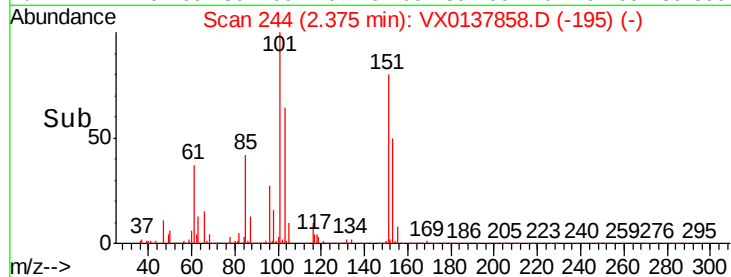
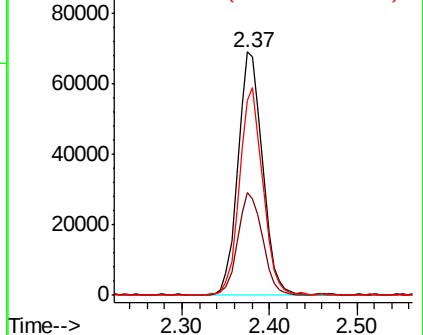
151 81.8 64.2 96.2



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: 2.278 ug/l

RT: 3.03 min Scan# 352

Delta R.T. 0.00 min

Lab File: VX0137858.D

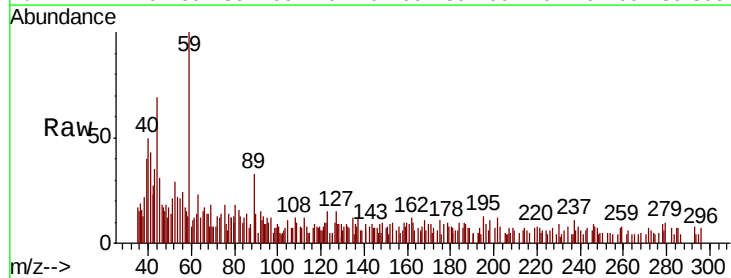
Acq: 09 Dec 2019 18:07

Tgt Ion: 59 Resp: 3983

Ion Ratio Lower Upper

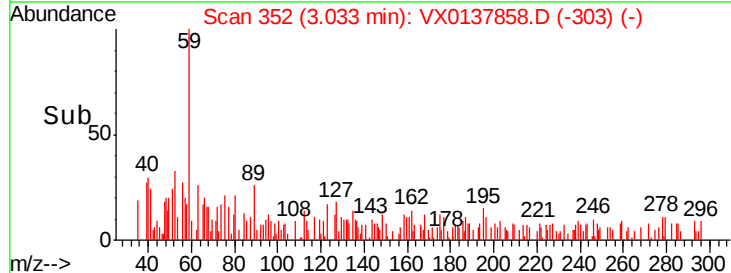
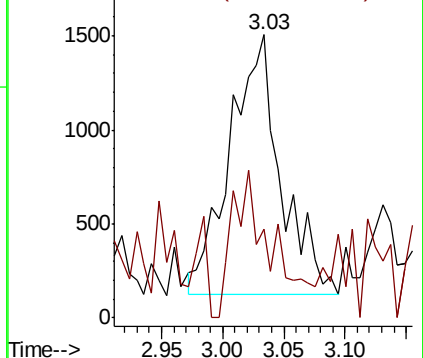
59 100

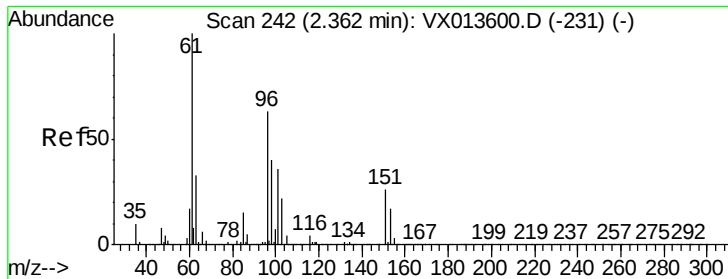
57 44.4 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 6.364 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.01 min

Lab File: VX0137858.D

Acq: 09 Dec 2019 18:07

Instrument :

MSVOA_X

ClientSampleId :

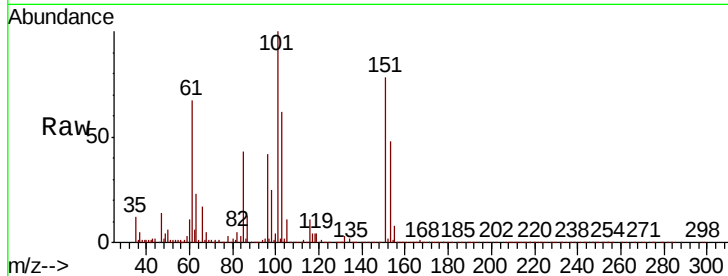
Tot Ion: 96 Resp: 36959

Ion Ratio Lower Upper

96 100

61 161.7 126.6 190.0

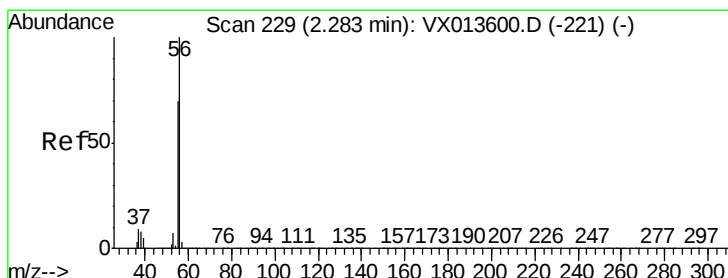
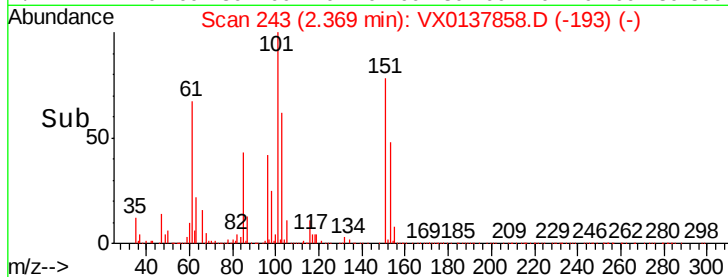
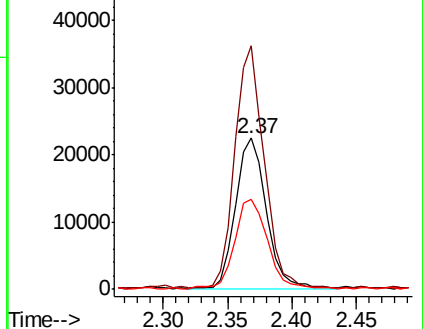
98 60.4 50.6 76.0



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: 6.272 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX0137858.D

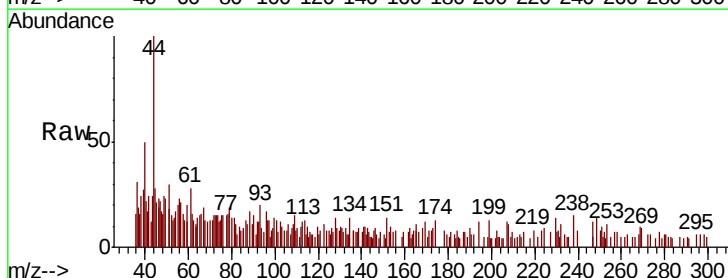
Acq: 09 Dec 2019 18:07

Tgt Ion: 56 Resp: 321

Ion Ratio Lower Upper

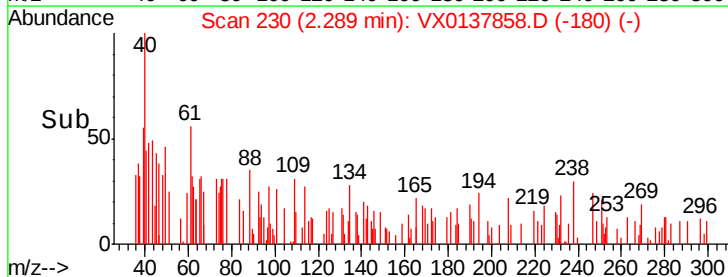
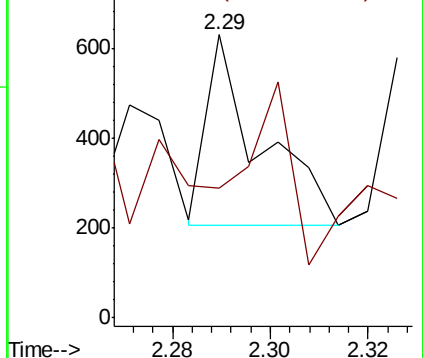
56 100

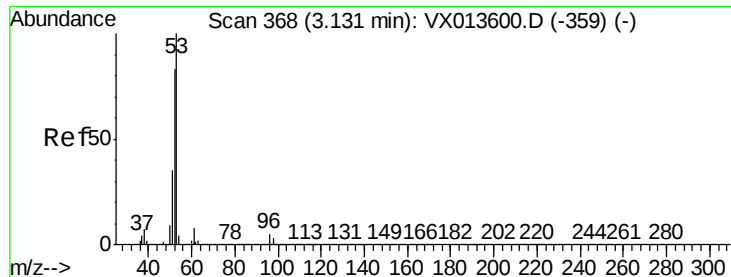
55 34.9 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acrylonitrile

Concen: 0.203 ug/l

RT: 3.12 min Scan# 366

Delta R.T. -0.01 min

Lab File: VX0137858.D

Acq: 09 Dec 2019 18:07

Instrument :

MSVOA_X

ClientSampleId :

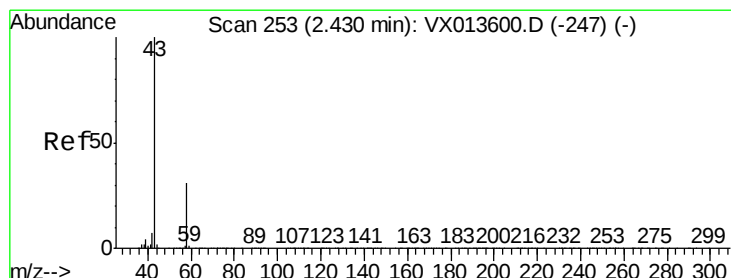
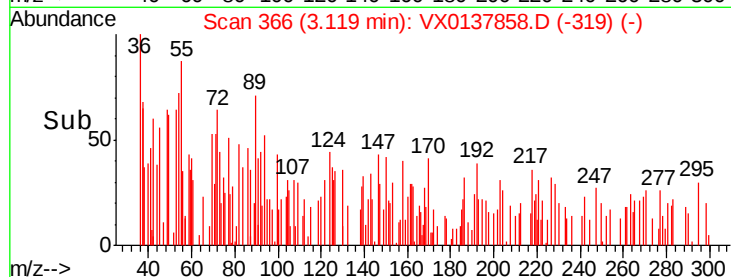
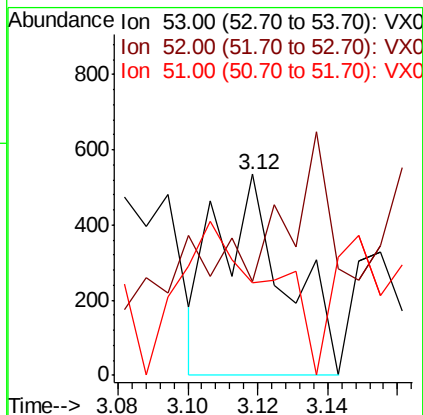
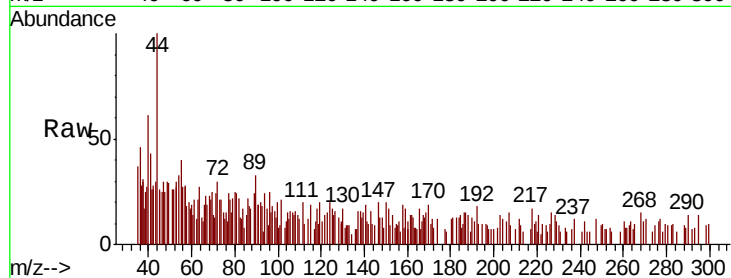
Tot Ion: 53 Resp: 734

Ion Ratio Lower Upper

53 100

52 0.0 66.2 99.2#

51 0.0 29.0 43.6#



#16

Acetone

Concen: 1.602 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX0137858.D

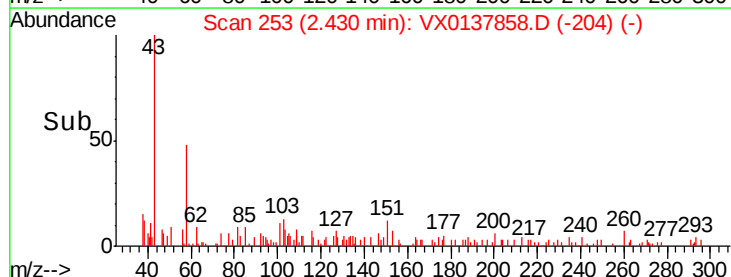
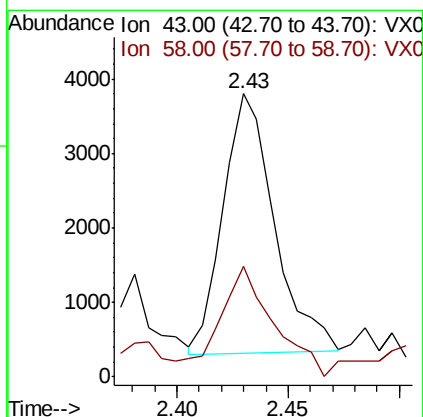
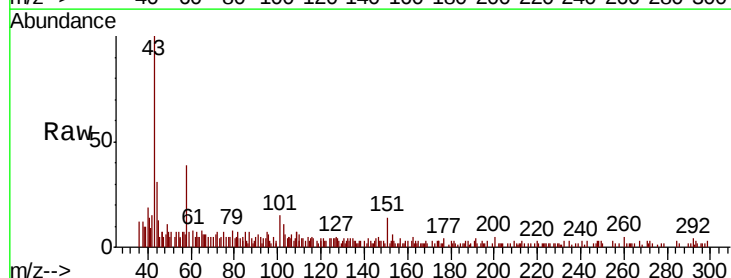
Acq: 09 Dec 2019 18:07

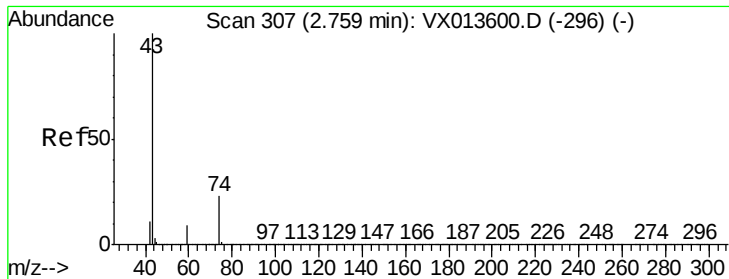
Tgt Ion: 43 Resp: 5603

Ion Ratio Lower Upper

43 100

58 36.8 24.6 36.8

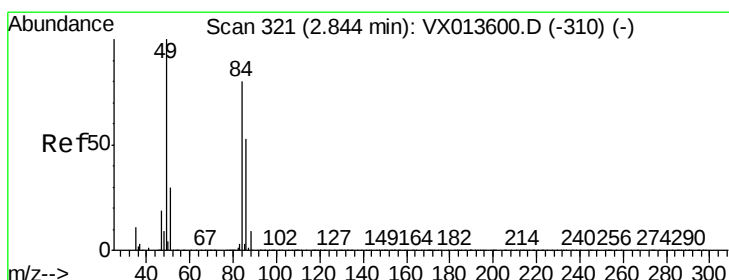
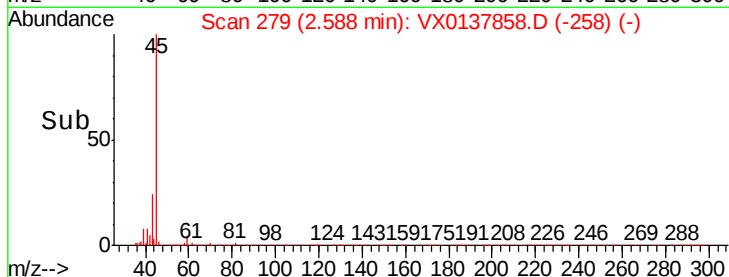
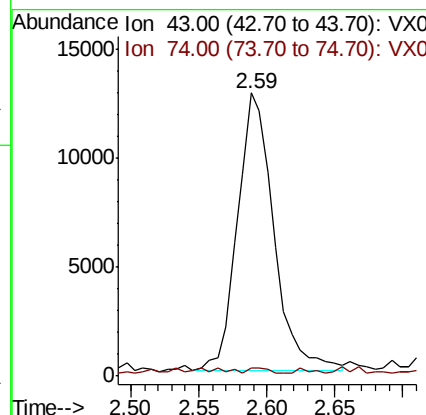
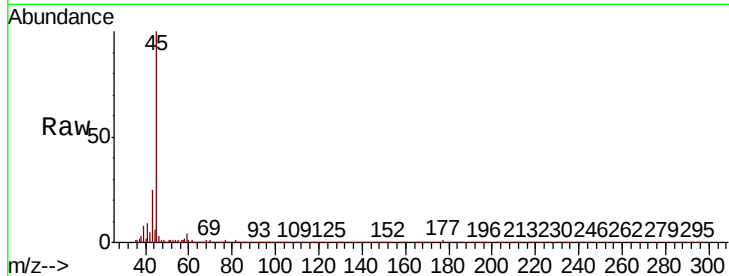




#18
Methyl Acetate
Concen: 2.443 ug/l
RT: 2.59 min Scan# 279
Delta R.T. -0.17 min
Lab File: VX0137858.D
Acq: 09 Dec 2019 18:07

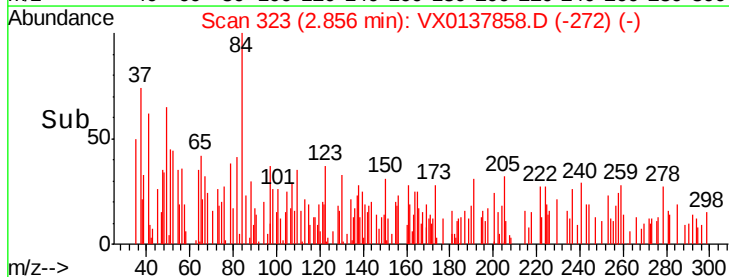
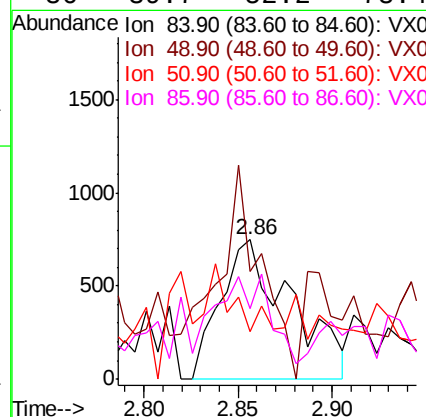
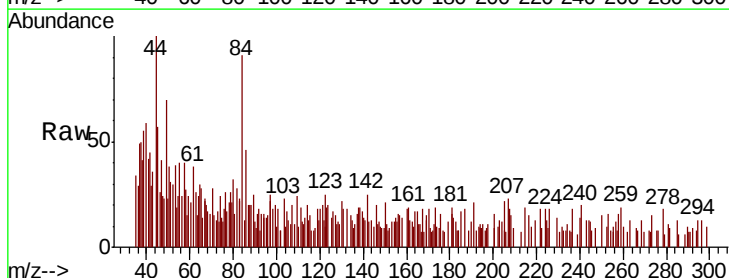
Instrument :
MSVOA_X
ClientSampled :

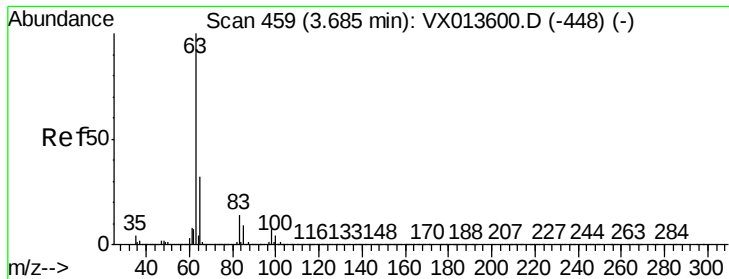
Tot Ion: 43 Resp: 23788
Ion Ratio Lower Upper
43 100
74 1.4 19.5 29.3#



#20
Methylene Chloride
Concen: 0.291 ug/l
RT: 2.86 min Scan# 323
Delta R.T. 0.01 min
Lab File: VX0137858.D
Acq: 09 Dec 2019 18:07

Tgt Ion: 84 Resp: 1952
Ion Ratio Lower Upper
84 100
49 42.6 99.7 149.5#
51 0.0 29.9 44.9#
86 39.7 52.2 78.4#





#24

1,1-Dichloroethane

Concen: 1.488 ug/l

RT: 3.69 min Scan# 459

Delta R.T. 0.00 min

Lab File: VX0137858.D

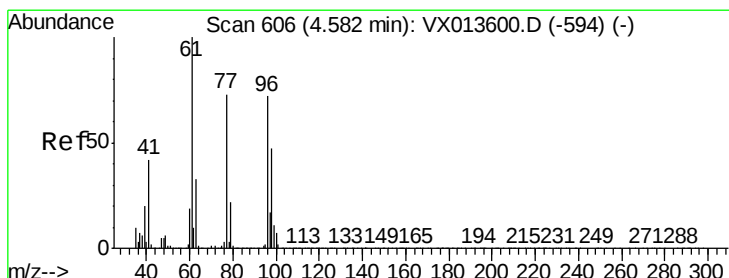
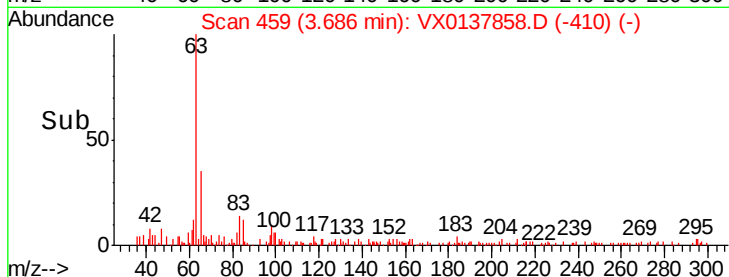
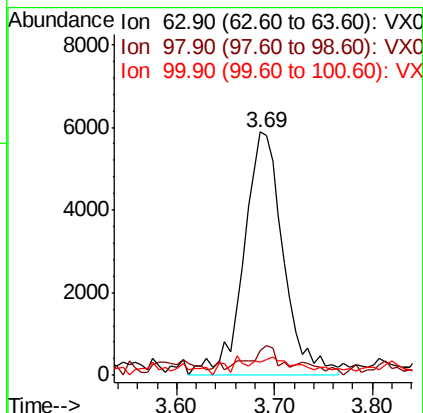
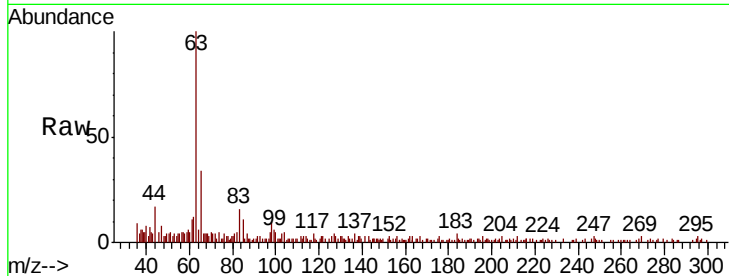
Acq: 09 Dec 2019 18:07

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:	63	Resp:	16511
Ion	Ratio	Lower	Upper
63	100		
98	8.5	3.5	10.4
100	3.2	2.1	6.3



#27

cis-1,2-Dichloroethene

Concen: 2.629 ug/l

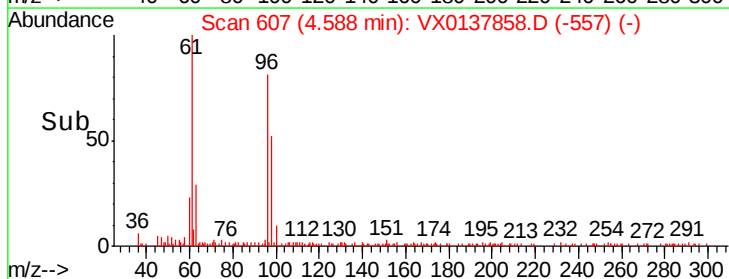
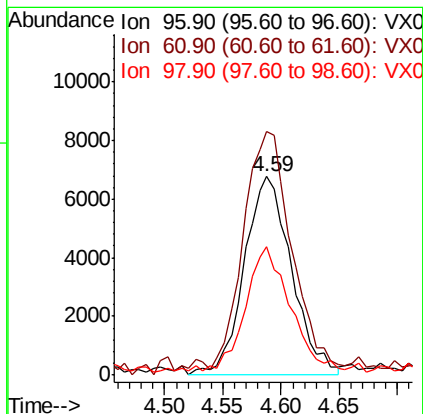
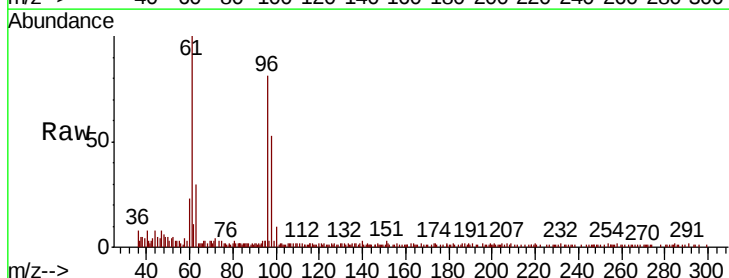
RT: 4.59 min Scan# 607

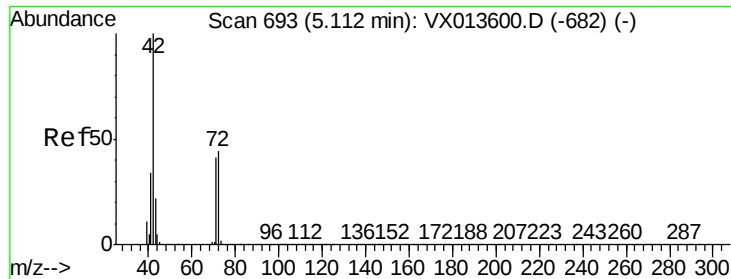
Delta R.T. 0.01 min

Lab File: VX0137858.D

Acq: 09 Dec 2019 18:07

Tgt Ion:	96	Resp:	19105
Ion	Ratio	Lower	Upper
96	100		
61	120.9	0.0	286.4
98	58.5	0.0	127.4

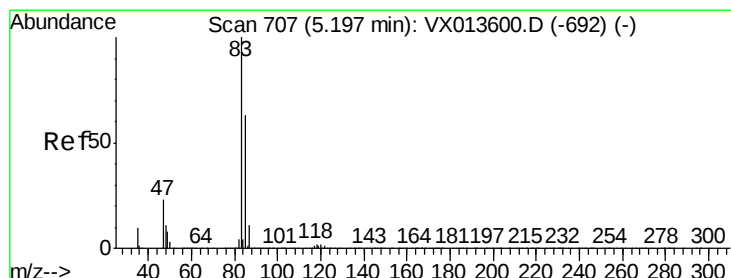
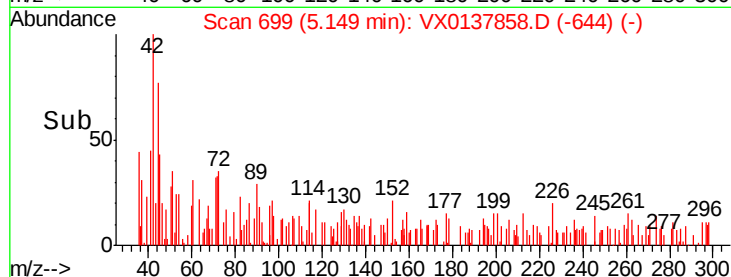
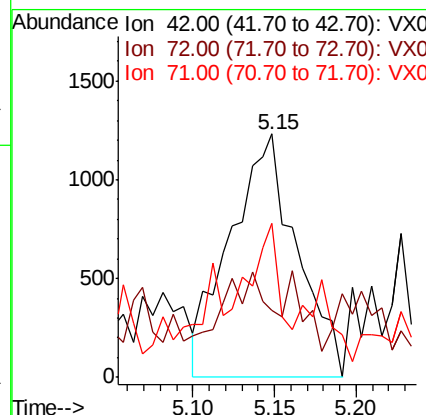
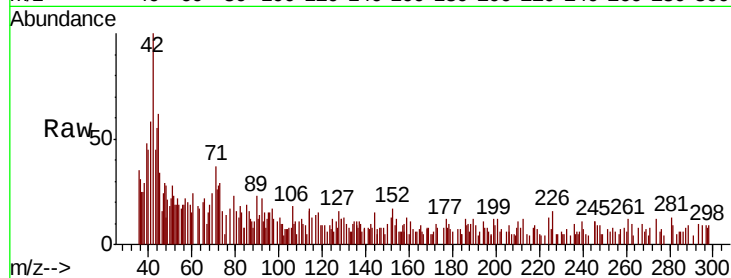




#29
Tetrahydrofuran
Concen: 1.093 ug/l
RT: 5.15 min Scan# 699
Delta R.T. 0.04 min
Lab File: VX0137858.D
Acq: 09 Dec 2019 18:07

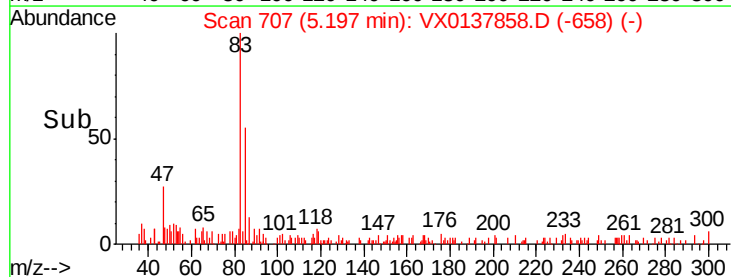
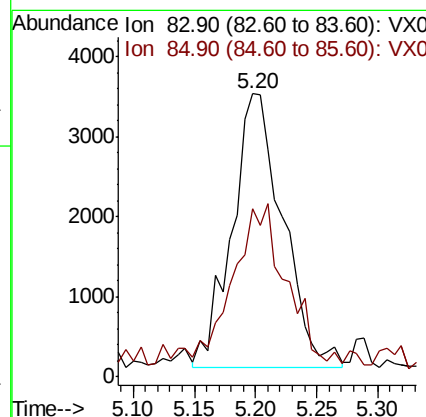
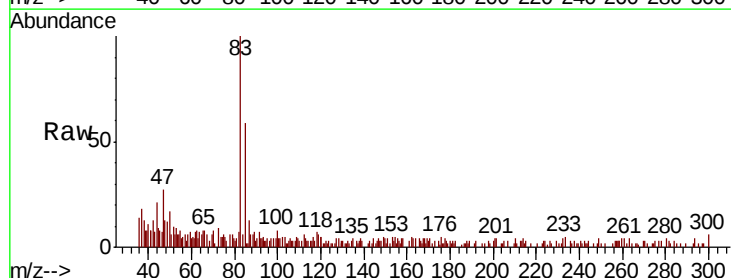
Instrument :
MSVOA_X
ClientSampleId :

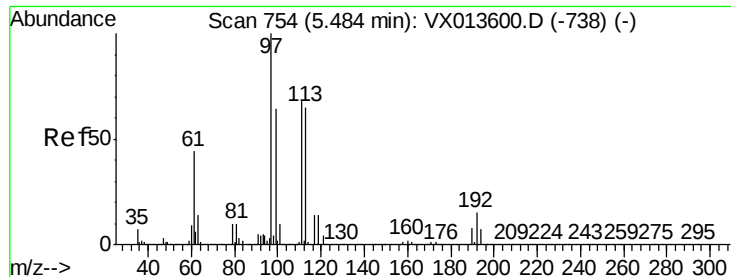
Tot Ion: 42 Resp: 3502
Ion Ratio Lower Upper
42 100
72 0.0 36.3 54.5#
71 21.1 33.2 49.8#



#30
Chloroform
Concen: 0.872 ug/l
RT: 5.20 min Scan# 707
Delta R.T. 0.00 min
Lab File: VX0137858.D
Acq: 09 Dec 2019 18:07

Tgt Ion: 83 Resp: 9810
Ion Ratio Lower Upper
83 100
85 57.6 50.2 75.4





#32

1,1,1-Trichloroethane

Concen: 0.385 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX0137858.D

Acq: 09 Dec 2019 18:07

Instrument :

MSVOA_X

ClientSampleId :

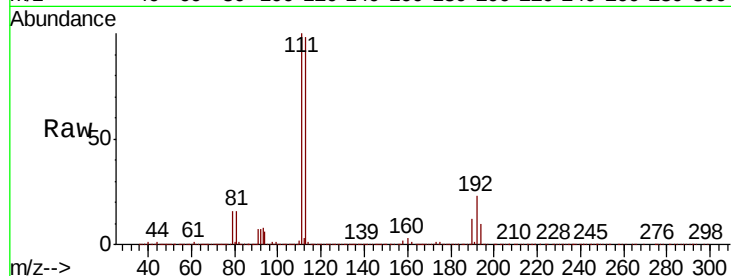
Tot Ion: 97 Resp: 3617

Ion Ratio Lower Upper

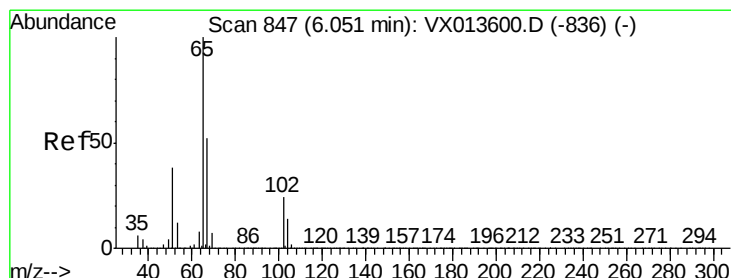
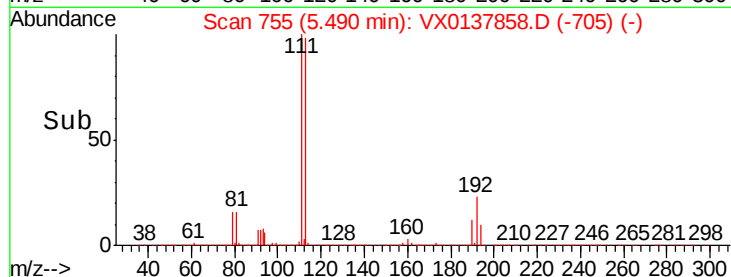
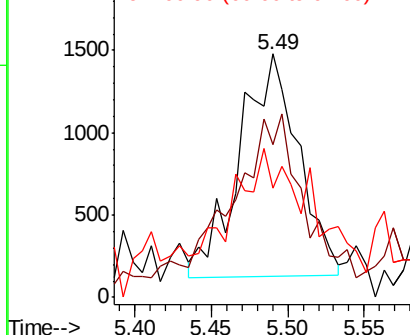
97 100

99 0.0 51.6 77.4#

61 86.3 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: 47.609 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX0137858.D

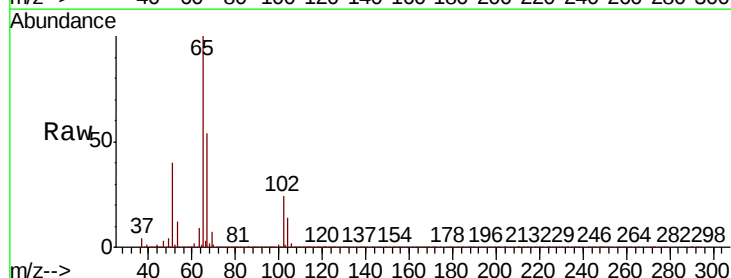
Acq: 09 Dec 2019 18:07

Tgt Ion: 65 Resp: 337253

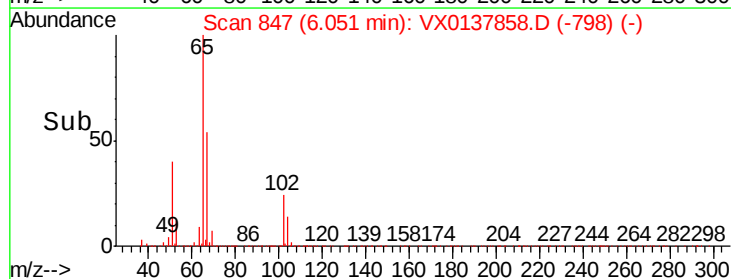
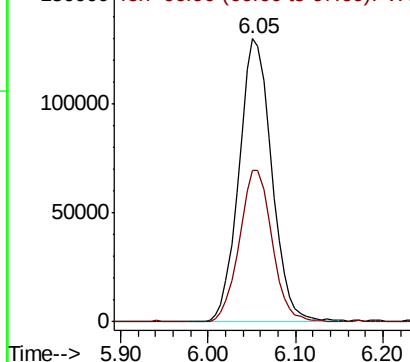
Ion Ratio Lower Upper

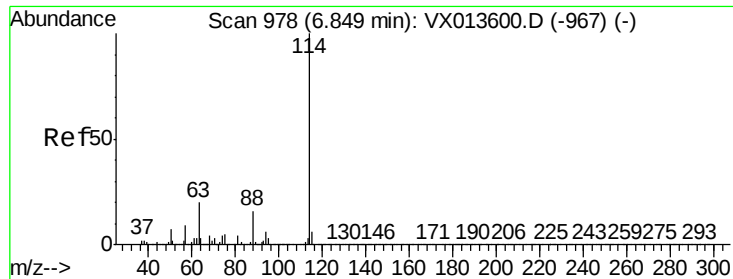
65 100

67 53.2 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: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX0137858.D

Acq: 09 Dec 2019 18:07

Instrument :

MSVOA_X

ClientSampled :

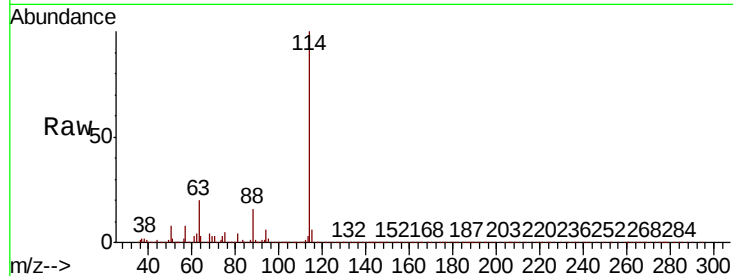
Tot Ion:114 Resp: 946835

Ion Ratio Lower Upper

114 100

63 20.0 0.0 39.6

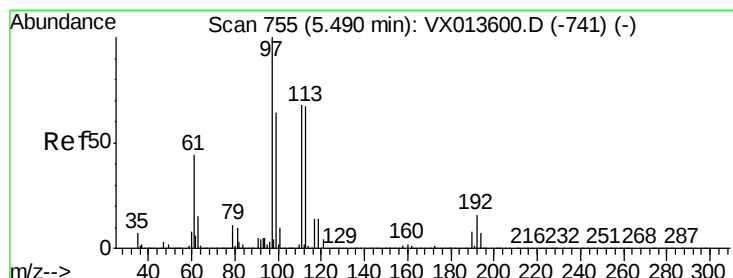
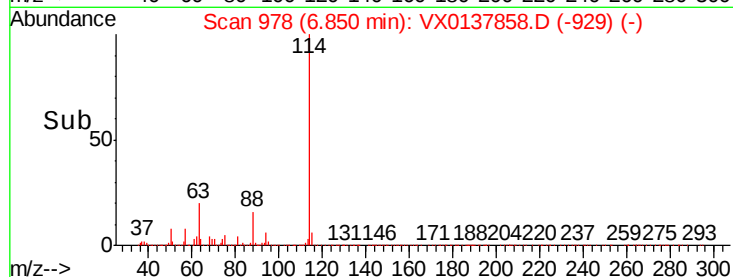
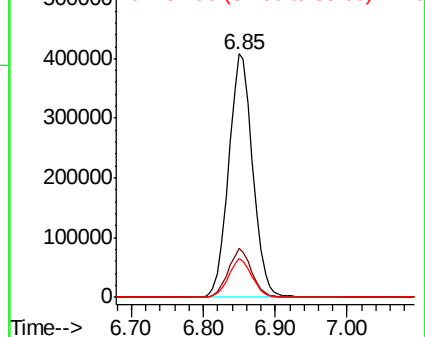
88 15.8 0.0 31.4



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: 48.324 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX0137858.D

Acq: 09 Dec 2019 18:07

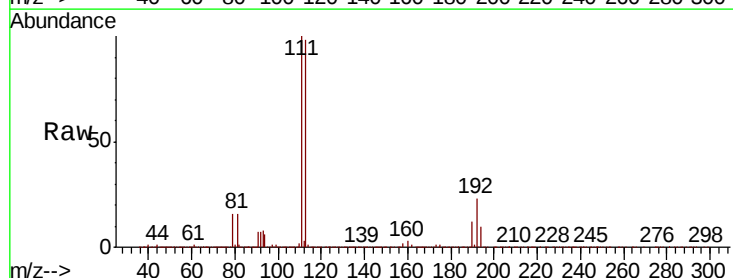
Tgt Ion:113 Resp: 282861

Ion Ratio Lower Upper

113 100

111 101.6 83.6 125.4

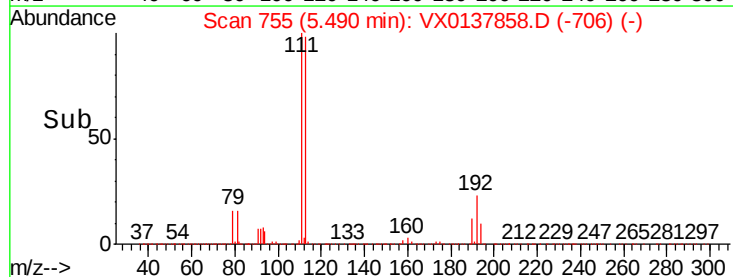
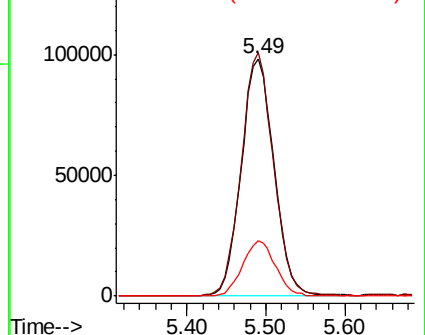
192 23.2 19.2 28.8

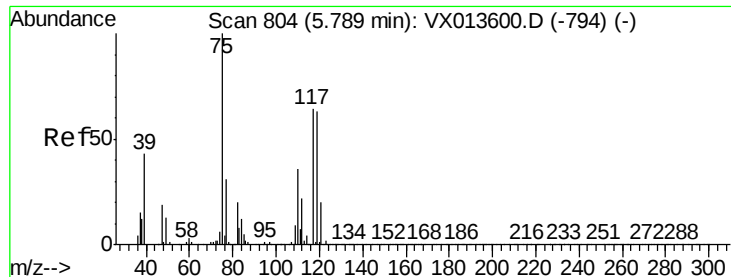


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.919 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX0137858.D

Acq: 09 Dec 2019 18:07

Instrument :

MSVOA_X

ClientSampleId :

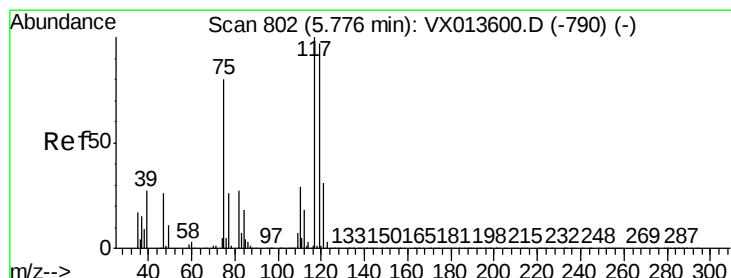
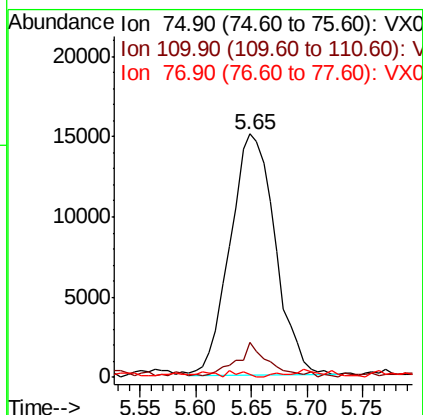
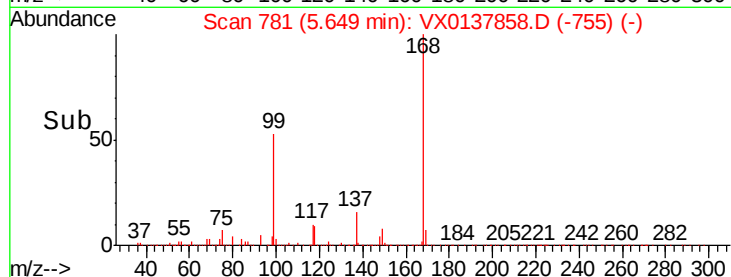
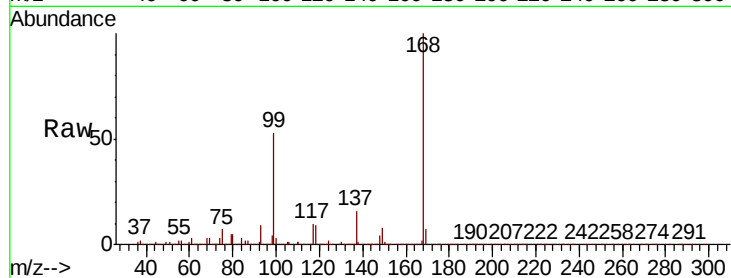
Tot Ion: 75 Resp: 42279

Ion Ratio Lower Upper

75 100

110 10.7 18.1 54.1#

77 1.0 24.5 36.7#



#38

Carbon Tetrachloride

Concen: 1.322 ug/l

RT: 5.78 min Scan# 802

Delta R.T. 0.00 min

Lab File: VX0137858.D

Acq: 09 Dec 2019 18:07

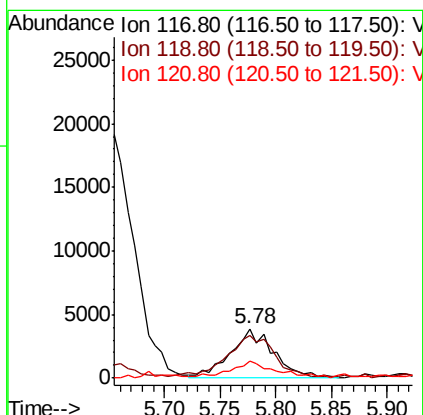
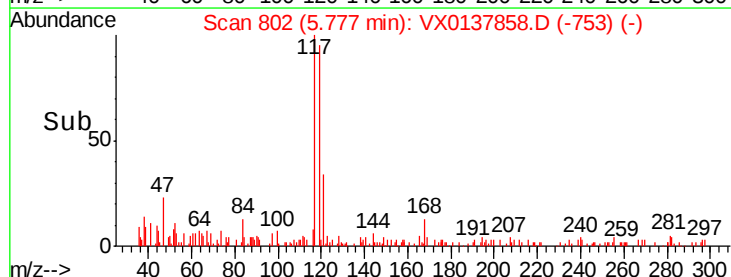
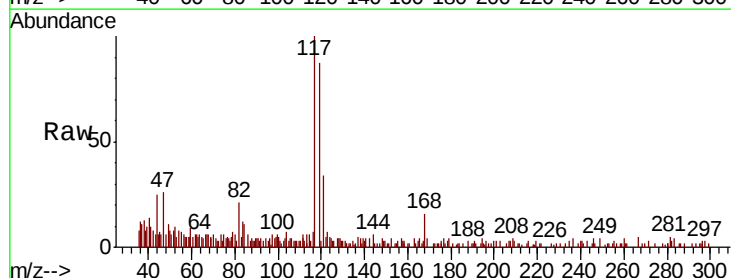
Tgt Ion: 117 Resp: 10480

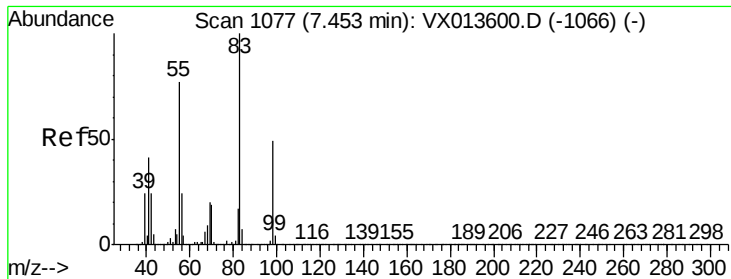
Ion Ratio Lower Upper

117 100

119 83.2 77.5 116.3

121 31.3 25.0 37.6





#39

Methylcyclohexane

Concen: 7.564 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. -0.24 min

Lab File: VX0137858.D

Acq: 09 Dec 2019 18:07

Instrument :

MSVOA_X

ClientSampleId :

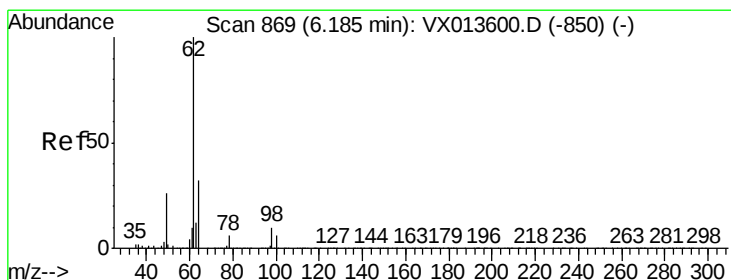
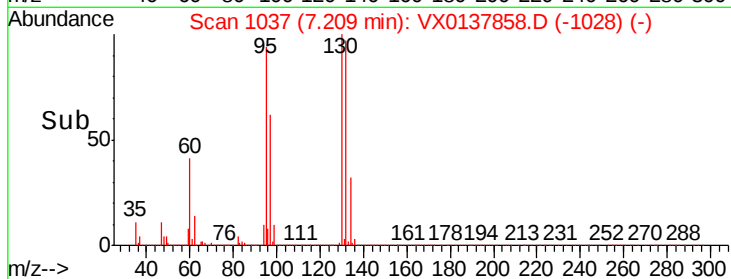
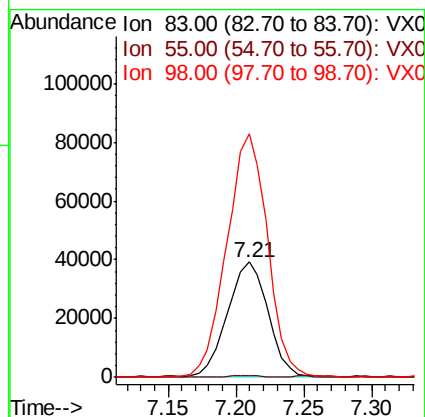
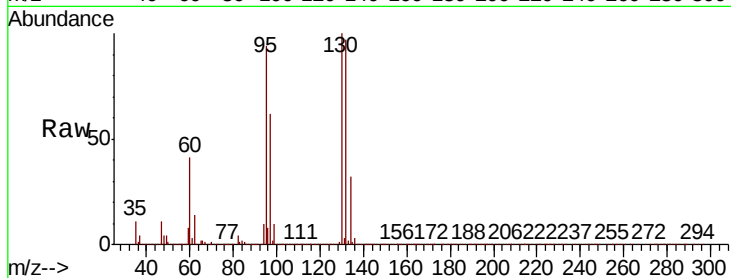
Tot Ion: 83 Resp: 80358

Ion Ratio Lower Upper

83 100

55 0.4 61.9 92.9#

98 211.9 39.4 59.0#



#42

1,2-Dichloroethane

Concen: 0.216 ug/l

RT: 6.19 min Scan# 869

Delta R.T. 0.00 min

Lab File: VX0137858.D

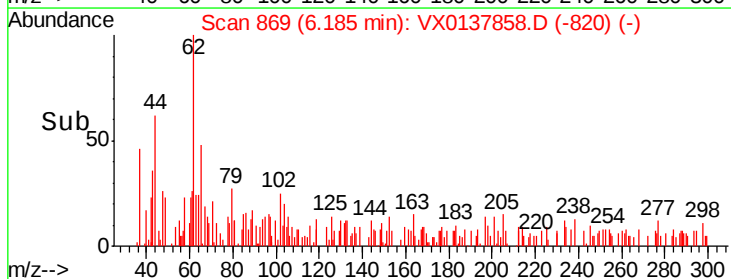
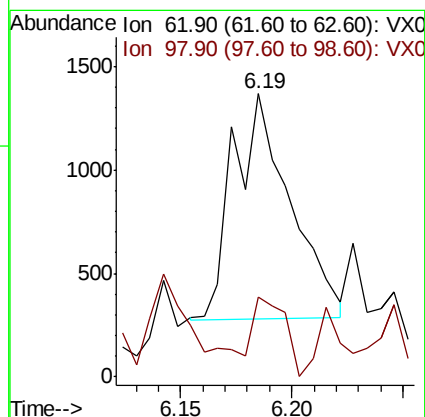
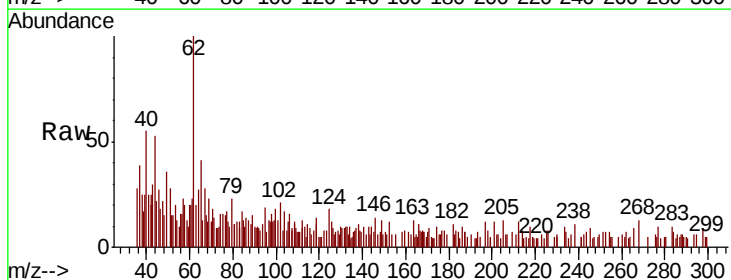
Acq: 09 Dec 2019 18:07

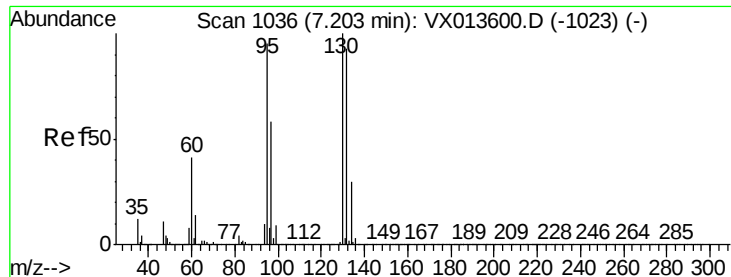
Tgt Ion: 62 Resp: 1924

Ion Ratio Lower Upper

62 100

98 21.6 0.0 20.8#





#44

Trichloroethene

Concen: 1014.347 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX0137858.D

Acq: 09 Dec 2019 18:07

Instrument :

MSVOA_X

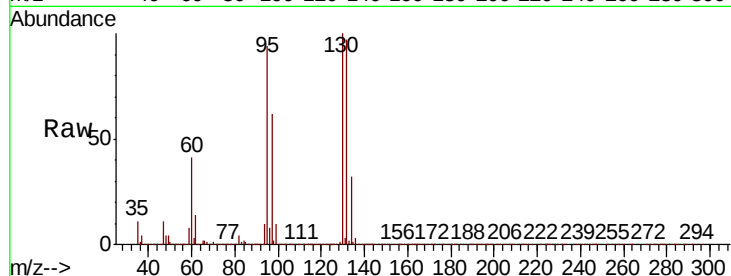
ClientSampleId :

Tot Ion:130 Resp: 7287317

Ion Ratio Lower Upper

130 100

95 93.6 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

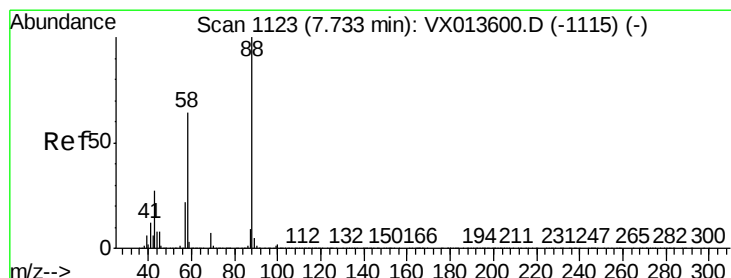
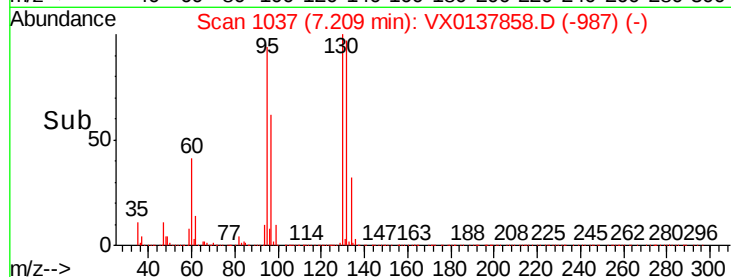
3000000

2000000

1000000

0

Time-->



#49

1,4-Dioxane

Concen: 4.634 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX0137858.D

Acq: 09 Dec 2019 18:07

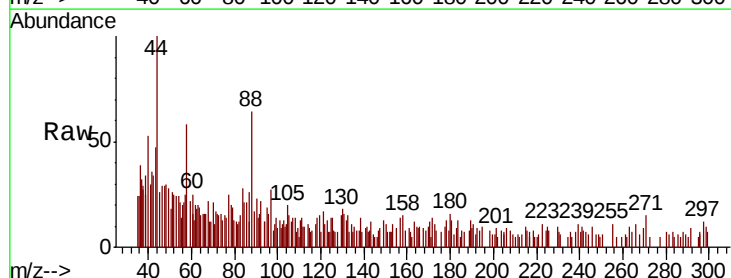
Tgt Ion: 88 Resp: 800

Ion Ratio Lower Upper

88 100

43 76.9 25.8 38.6#

58 189.5 54.6 82.0#



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

1000

800

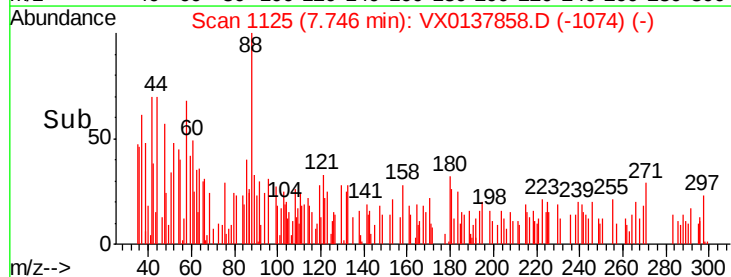
600

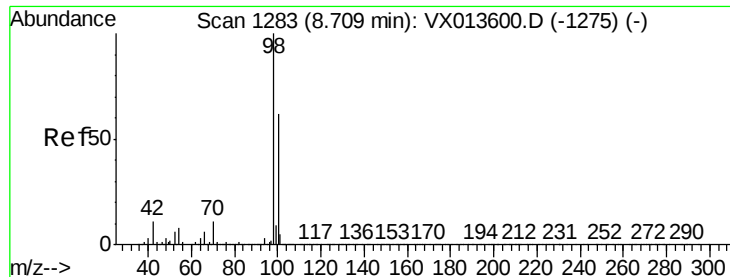
400

200

0

Time-->





#50

Toluene-d8

Concen: 48.261 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX0137858.D

Acq: 09 Dec 2019 18:07

Instrument :

MSVOA_X

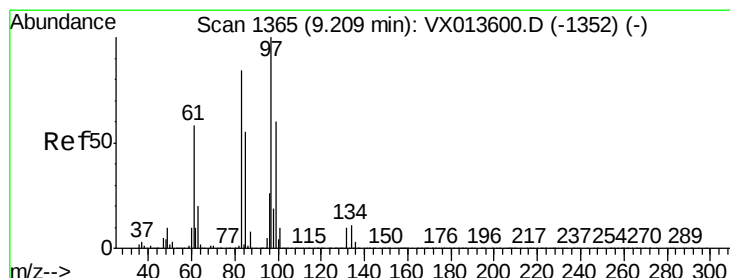
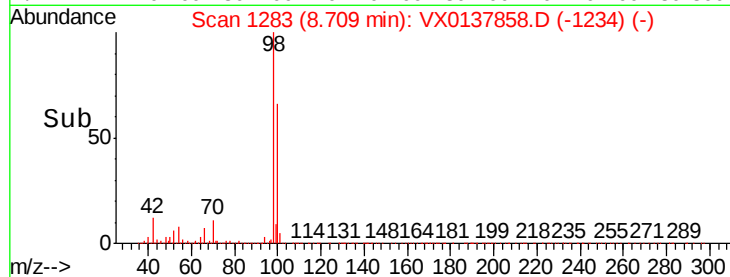
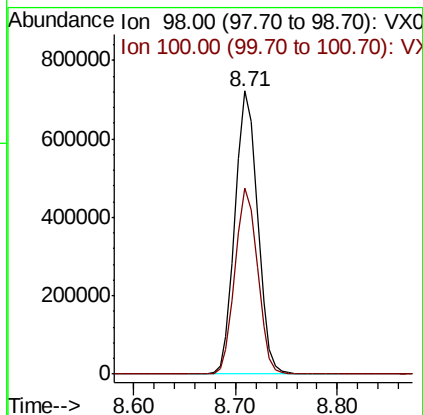
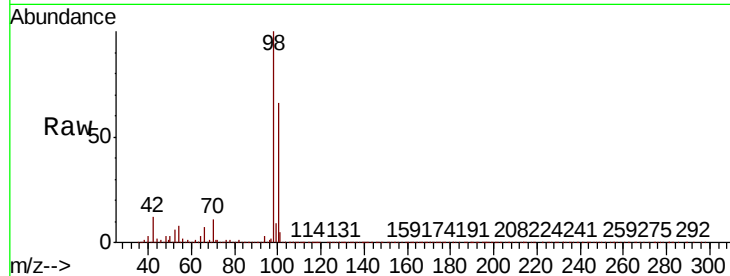
ClientSampled :

Tot Ion: 98 Resp: 1100624

Ion Ratio Lower Upper

98 100

100 65.7 53.1 79.7



#55

1,1,2-Trichloroethane

Concen: 0.826 ug/l

RT: 9.21 min Scan# 1365

Delta R.T. 0.00 min

Lab File: VX0137858.D

Acq: 09 Dec 2019 18:07

Tgt Ion: 97 Resp: 5414

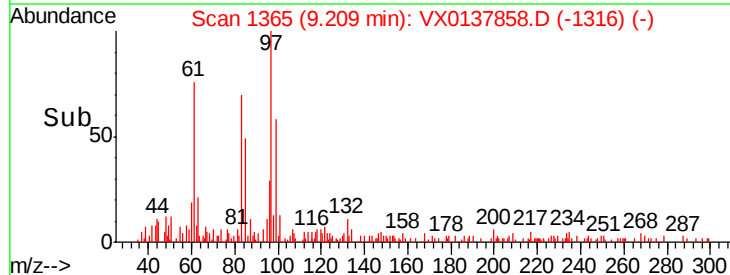
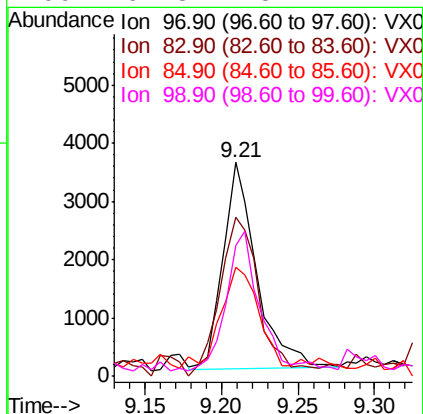
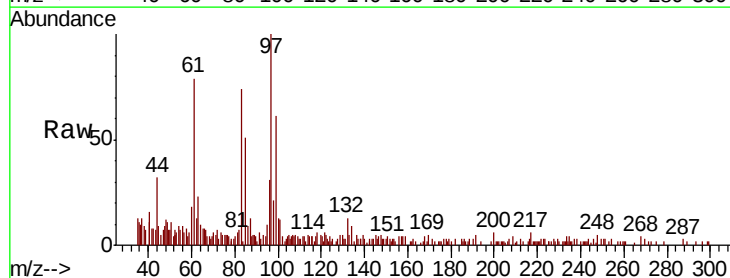
Ion Ratio Lower Upper

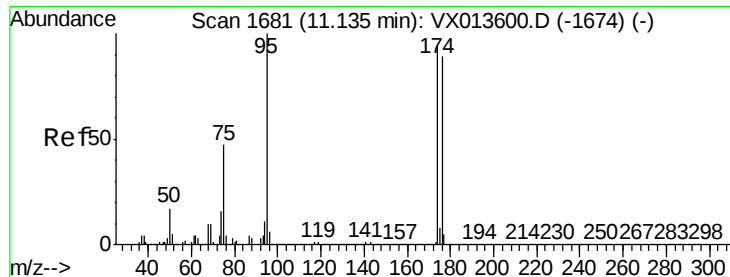
97 100

83 71.9 67.3 100.9

85 48.2 43.6 65.4

99 61.3 48.2 72.4

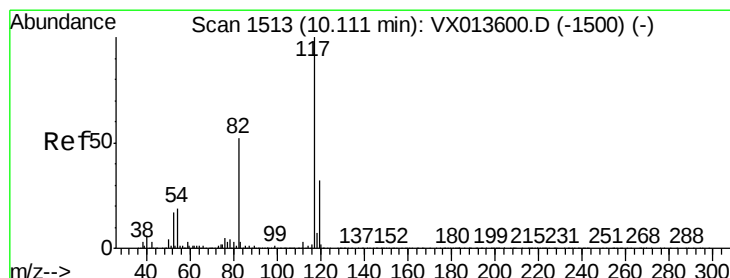
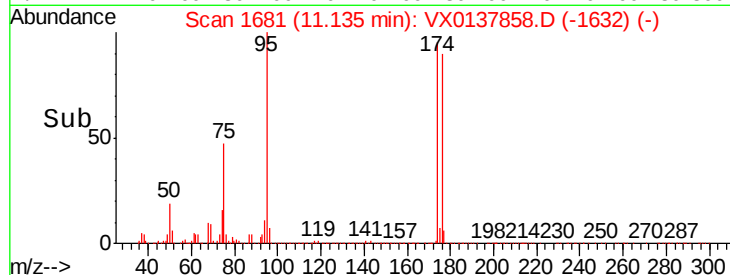
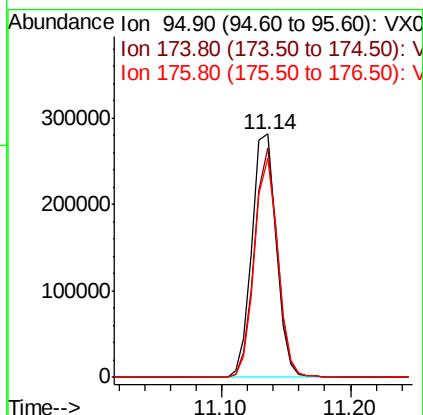
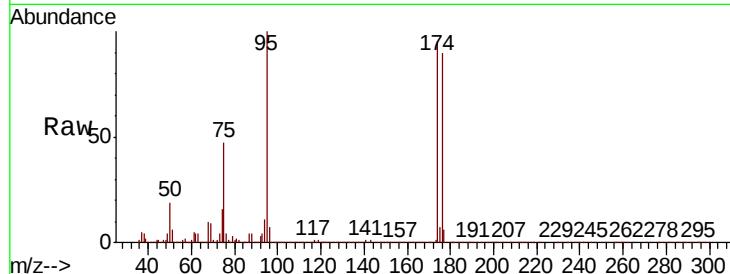




#62
4-Bromofluorobenzene
Concen: 44.610 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX0137858.D
Acq: 09 Dec 2019 18:07

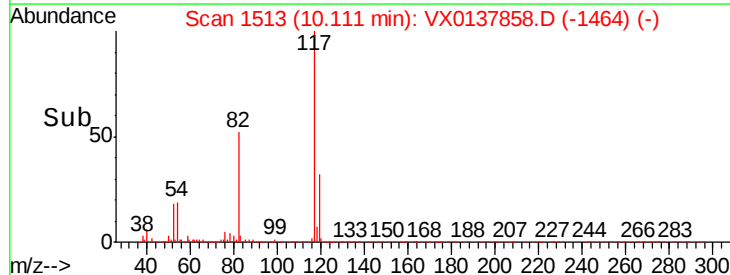
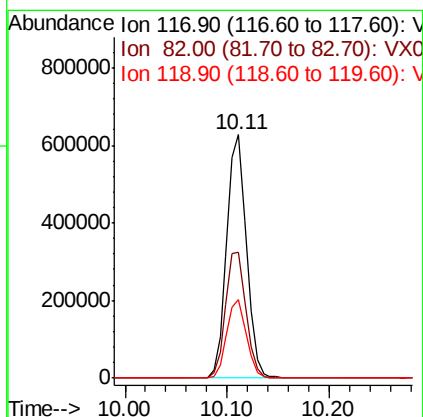
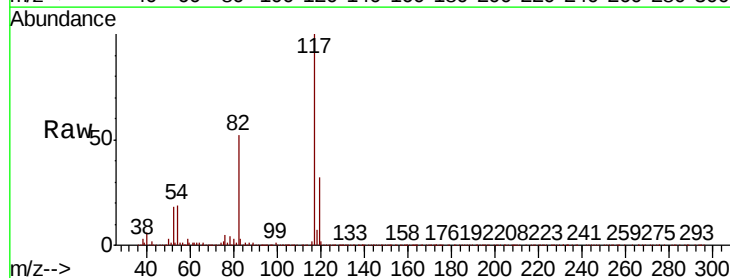
Instrument :
MSVOA_X
ClientSampleId :

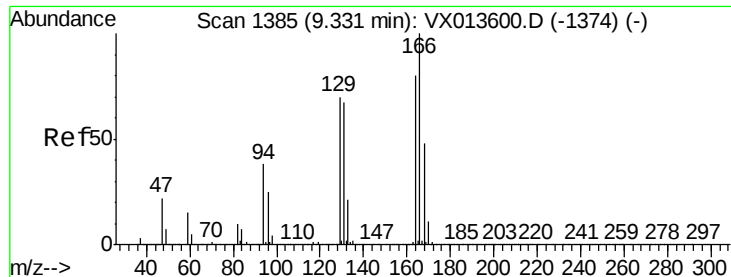
Tot Ion: 95 Resp: 366862
Ion Ratio Lower Upper
95 100
174 89.3 0.0 180.0
176 86.2 0.0 173.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX0137858.D
Acq: 09 Dec 2019 18:07

Tgt Ion: 117 Resp: 839941
Ion Ratio Lower Upper
117 100
82 51.6 41.8 62.8
119 32.0 25.8 38.8





#64

Tetrachloroethene

Concen: 2.537 ug/l

RT: 9.33 min Scan# 1385

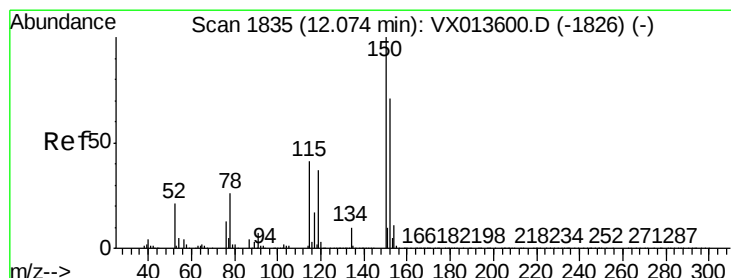
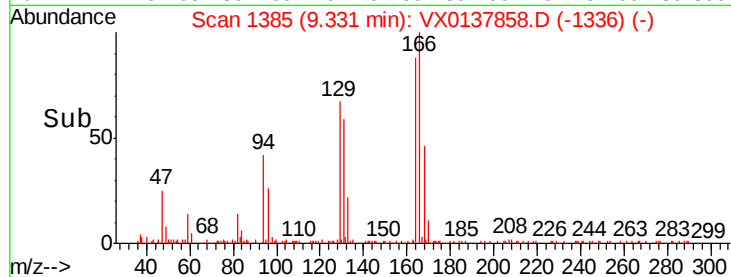
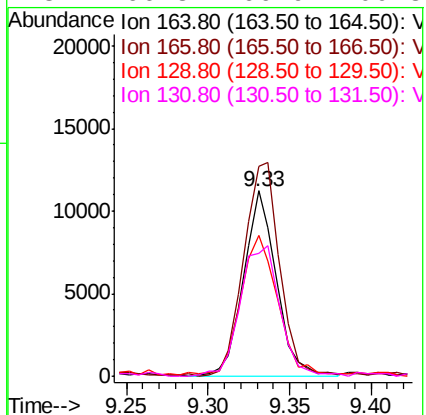
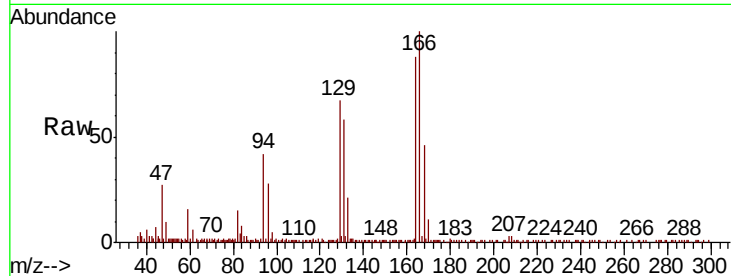
Delta R.T. 0.00 min

Lab File: VX0137858.D

Acq: 09 Dec 2019 18:07

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:164	Resp:	15889
Ion	Ratio	Lower Upper
164	100	
166	112.0	99.7 149.5
129	75.1	70.1 105.1
131	66.3	66.9 100.3#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

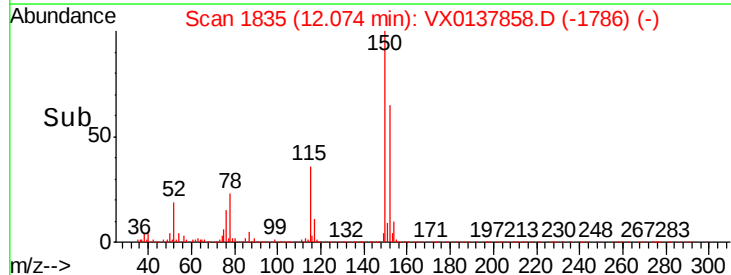
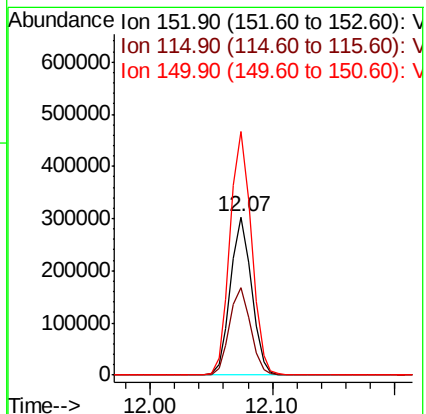
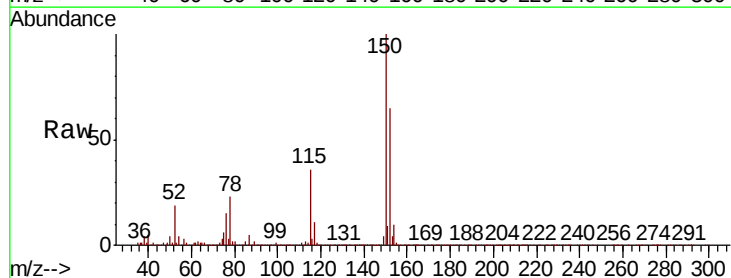
RT: 12.07 min Scan# 1835

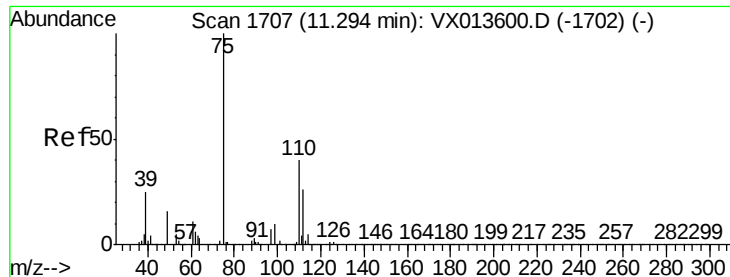
Delta R.T. 0.00 min

Lab File: VX0137858.D

Acq: 09 Dec 2019 18:07

Tgt Ion:152	Resp:	360711
Ion	Ratio	Lower Upper
152	100	
115	55.9	38.4 115.1
150	156.8	0.0 346.8





#76

1,2,3-Trichloropropane

Concen: 22.252 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX0137858.D

Acq: 09 Dec 2019 18:07

Instrument :

MSVOA_X

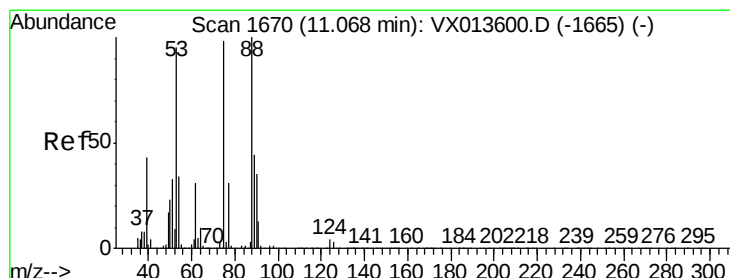
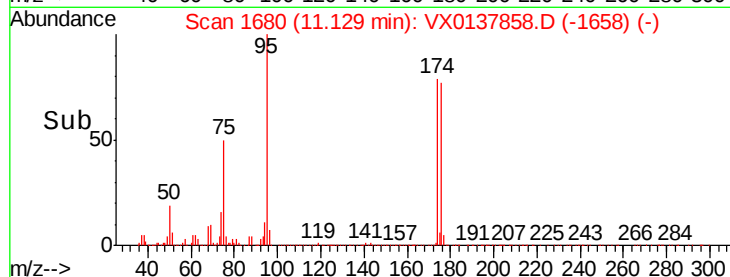
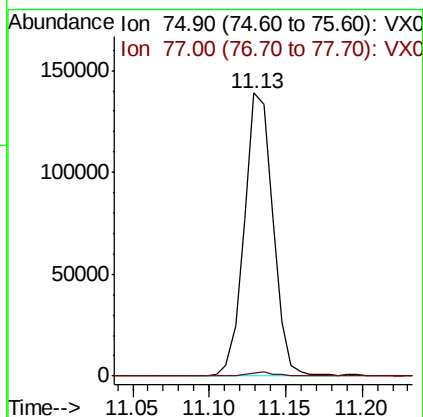
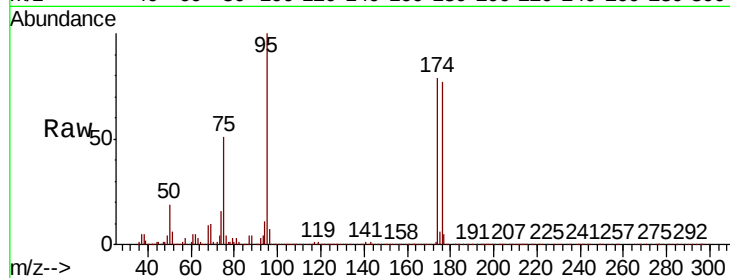
ClientSampleId :

Tot Ion: 75 Resp: 180535

Ion Ratio Lower Upper

75 100

77 1.3 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 60.879 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX0137858.D

Acq: 09 Dec 2019 18:07

Tgt Ion: 75 Resp: 180535

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.2#

89 0.0 35.4 53.2#

