

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120919\
 Data File : VX0137855.D
 Acq On : 09 Dec 2019 16:57
 Operator : JC/SP
 Sample : K6184-06DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 10 03:27:02 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

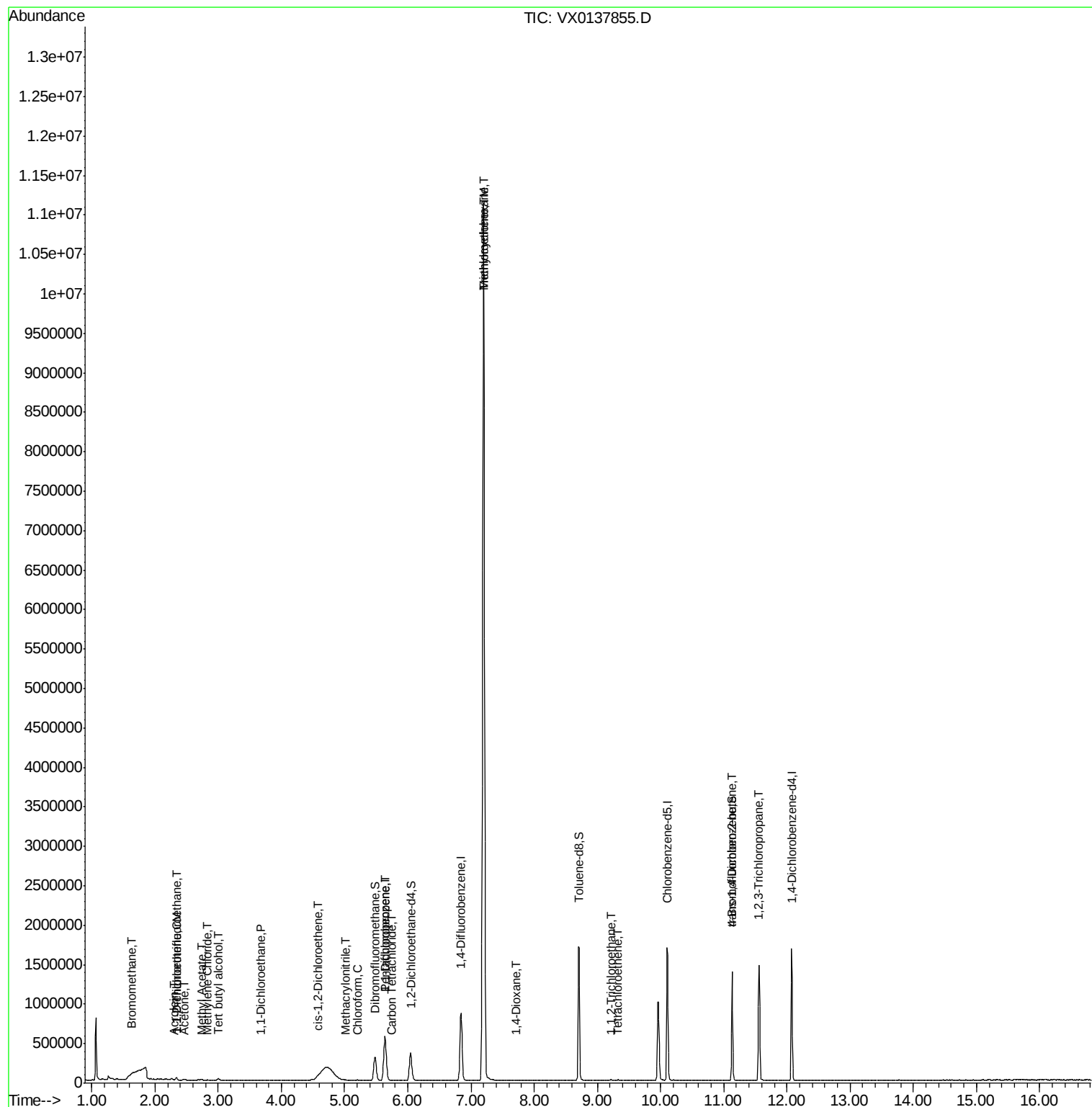
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	588286	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	896714	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	797288	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	348049	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.04	65	325123	47.61	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.22%	
35) Dibromofluoromethane	5.48	113	251479	45.36	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.72%	
50) Toluene-d8	8.71	98	1055236	48.86	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.72%	
62) 4-Bromofluorobenzene	11.14	95	350360	44.98	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.96%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.62	94	2596	0.467	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.34	101	9417	1.679	ug/l	97
11) Tert butyl alcohol	3.01	59	12684	7.525	ug/l #	88
12) 1,1-Dichloroethene	2.33	96	3950	0.706	ug/l #	71
13) Acrolein	2.30	56	400	6.350	ug/l #	15
16) Acetone	2.47	43	12768	3.787	ug/l	94
18) Methyl Acetate	2.74	43	2148	0.229	ug/l #	86
20) Methylene Chloride	2.83	84	2863	0.442	ug/l #	73
24) 1,1-Dichloroethane	3.67	63	2745	0.257	ug/l #	94
27) cis-1,2-Dichloroethene	4.58	96	4414	0.630	ug/l #	1
30) Chloroform	5.20	83	6142	0.566	ug/l #	79
36) 1,1-Dichloropropene	5.64	75	38524	4.733	ug/l #	50
38) Carbon Tetrachloride	5.75	117	2284	0.304	ug/l #	79
39) Methylcyclohexane	7.20	83	47930	4.764	ug/l #	1
41) Methacrylonitrile	5.03	41	1134	0.226	ug/l #	24
44) Trichloroethene	7.20	130	4334159	637.007	ug/l	98
49) 1,4-Dioxane	7.73	88	318	1.945	ug/l #	1
55) 1,1,2-Trichloroethane	9.22	97	3280	0.528	ug/l #	86
64) Tetrachloroethene	9.32	164	1933	0.325	ug/l #	86
76) 1,2,3-Trichloropropane	11.56	75	36643	4.681	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.14	75	169022	59.070	ug/l #	11

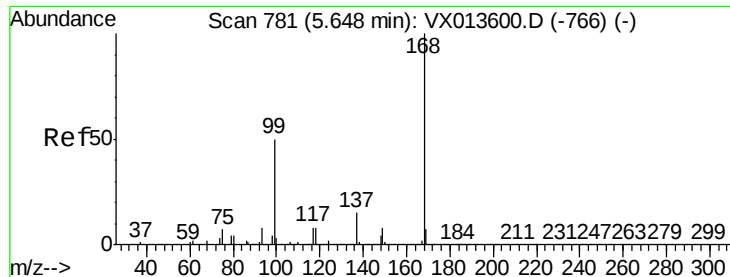
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.01 min

Lab File: VX0137855.D

Acq: 09 Dec 2019 16:57

Instrument :

MSVOA_X

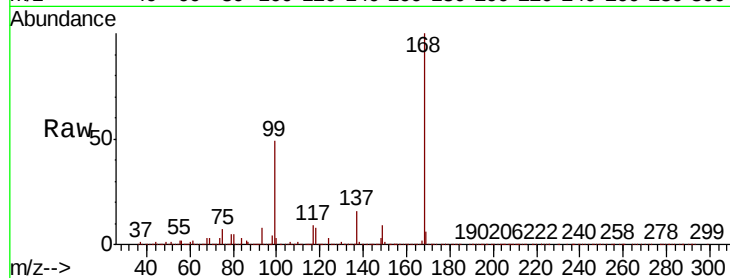
ClientSampled :

Tot Ion:168 Resp: 588286

Ion Ratio Lower Upper

168 100

99 49.0 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

200000

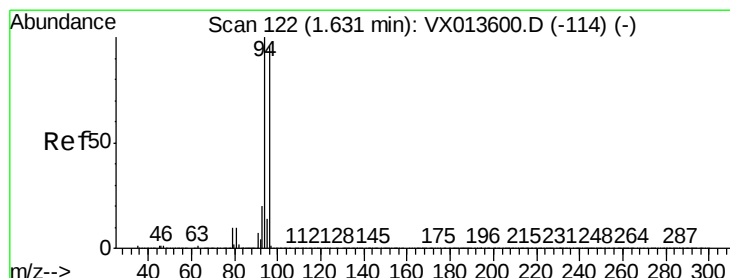
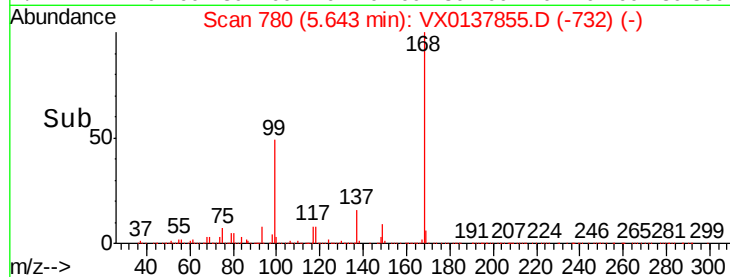
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.467 ug/l

RT: 1.62 min Scan# 121

Delta R.T. -0.01 min

Lab File: VX0137855.D

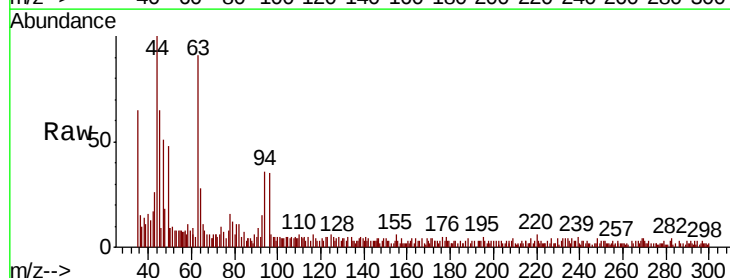
Acq: 09 Dec 2019 16:57

Tgt Ion: 94 Resp: 2596

Ion Ratio Lower Upper

94 100

96 94.9 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.62

2500

2000

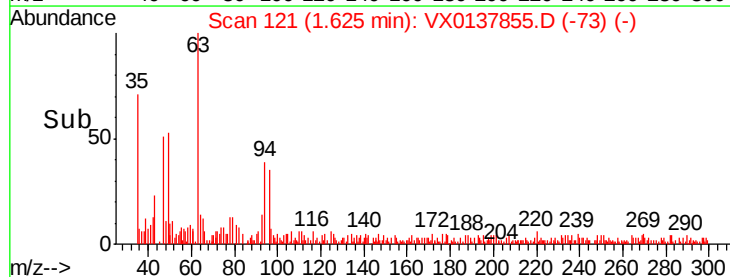
1500

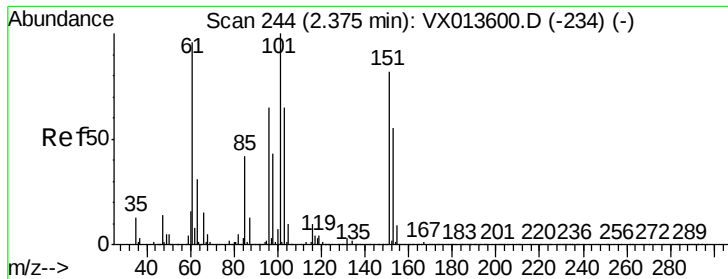
1000

500

0

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.679 ug/l

RT: 2.34 min Scan# 238

Delta R.T. -0.04 min

Lab File: VX0137855.D

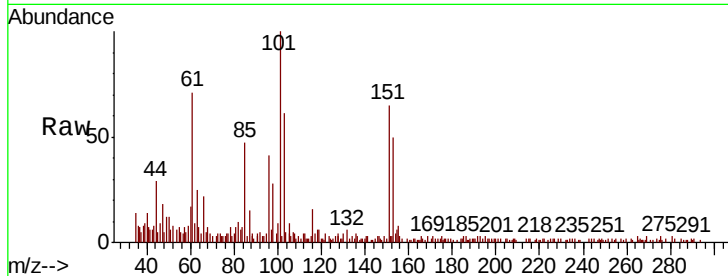
Acq: 09 Dec 2019 16:57

Instrument :

MSVOA_X

ClientSampleId :

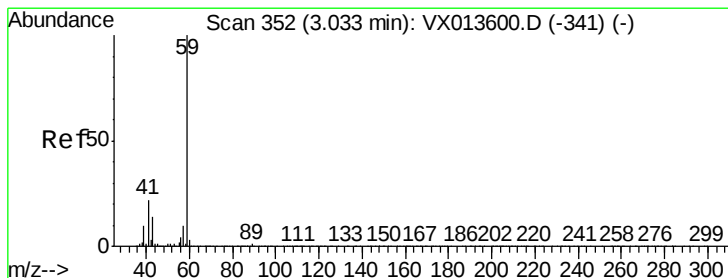
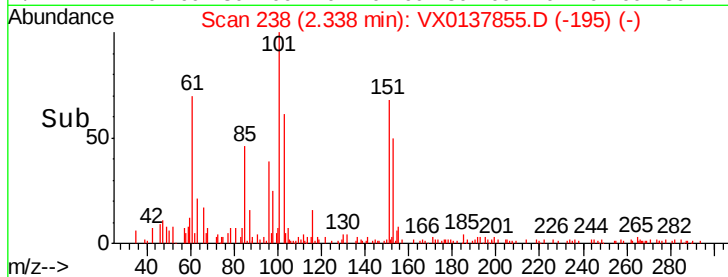
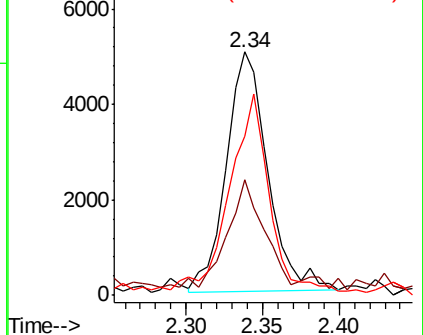
Tot Ion:	101	Resp:	9417
Ion	Ratio	Lower	Upper
101	100		
85	40.1	33.9	50.9
151	83.0	64.2	96.2



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: 7.525 ug/l

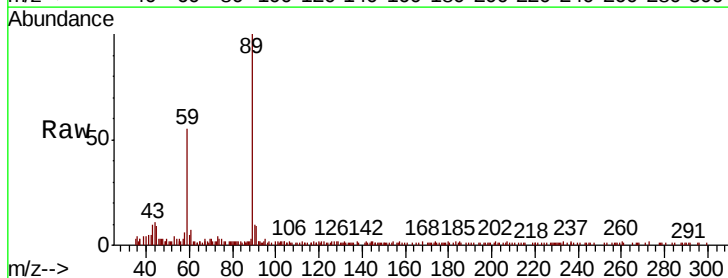
RT: 3.01 min Scan# 348

Delta R.T. -0.02 min

Lab File: VX0137855.D

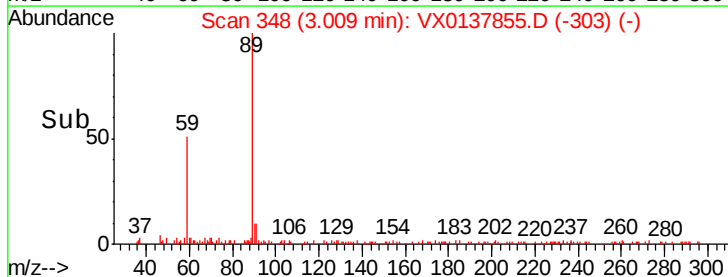
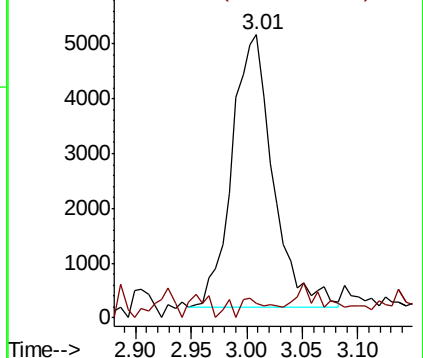
Acq: 09 Dec 2019 16:57

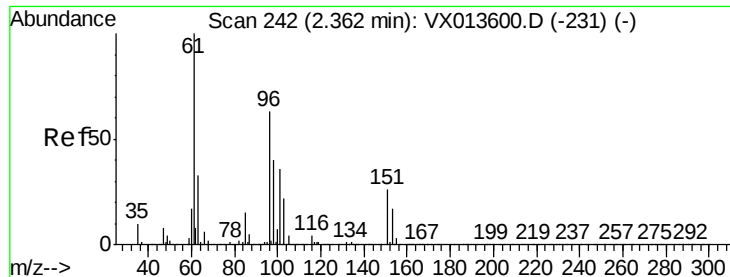
Tgt Ion:	59	Resp:	12684
Ion	Ratio	Lower	Upper
59	100		
57	5.4	7.8	11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.706 ug/l

RT: 2.33 min Scan# 237

Delta R.T. -0.03 min

Lab File: VX0137855.D

Acq: 09 Dec 2019 16:57

Instrument :

MSVOA_X

ClientSampled :

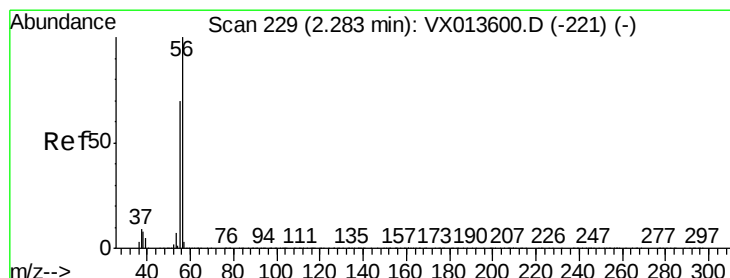
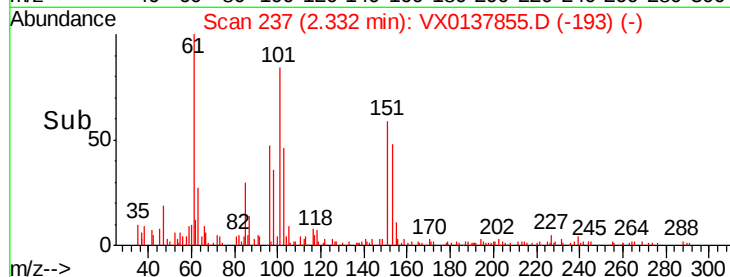
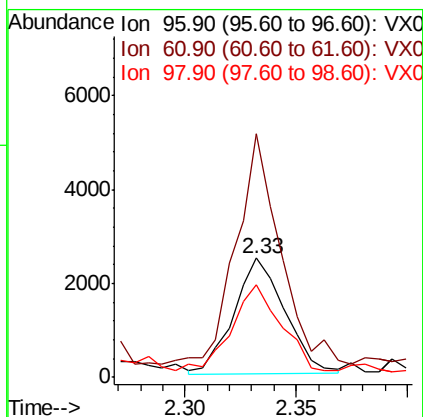
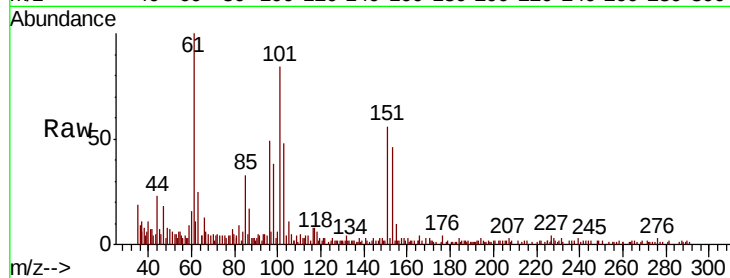
Tot Ion: 96 Resp: 3950

Ion Ratio Lower Upper

96 100

61 202.4 126.6 190.0#

98 76.0 50.6 76.0#



#13

Acrolein

Concen: 6.350 ug/l

RT: 2.30 min Scan# 232

Delta R.T. 0.02 min

Lab File: VX0137855.D

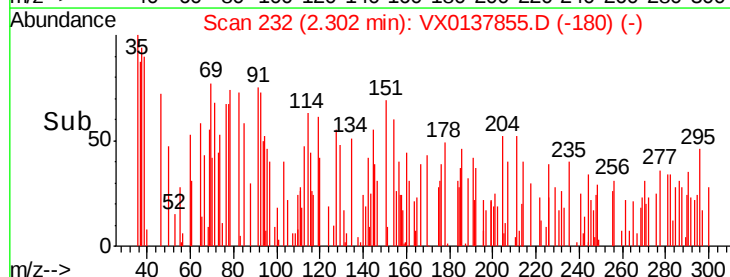
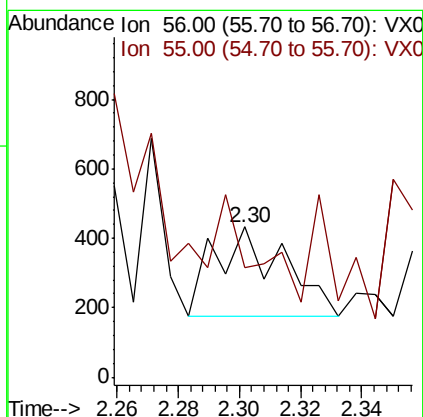
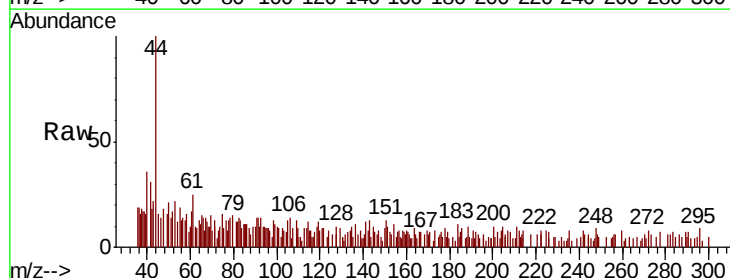
Acq: 09 Dec 2019 16:57

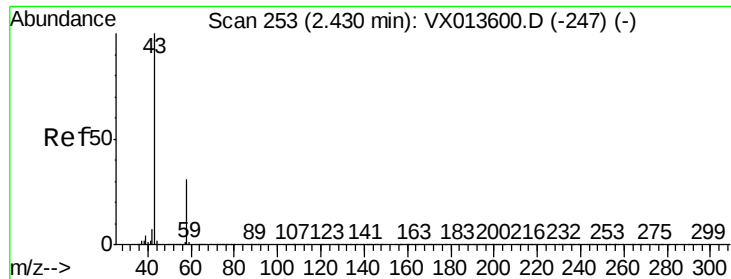
Tgt Ion: 56 Resp: 400

Ion Ratio Lower Upper

56 100

55 0.0 56.2 84.4#

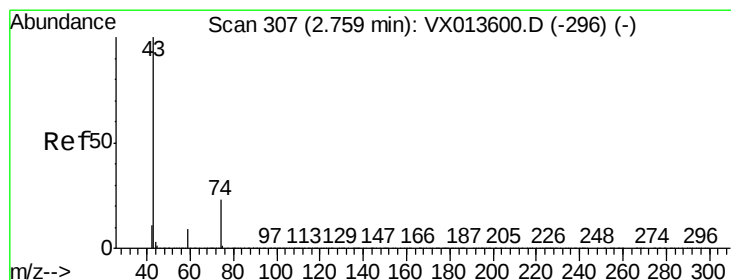
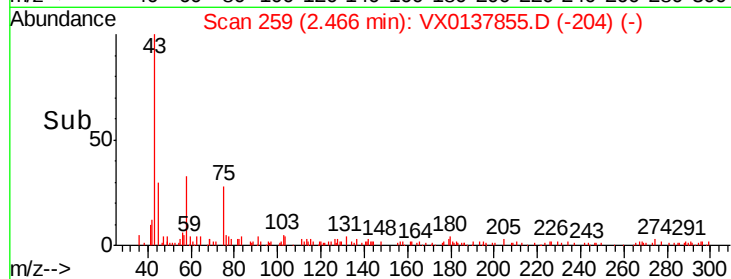
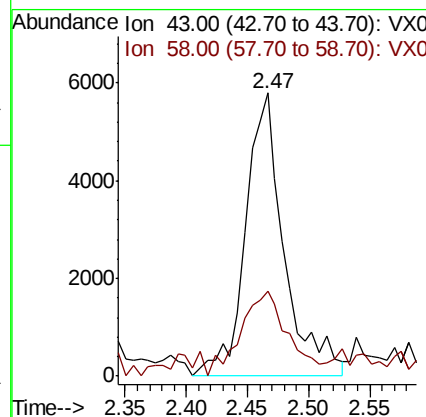
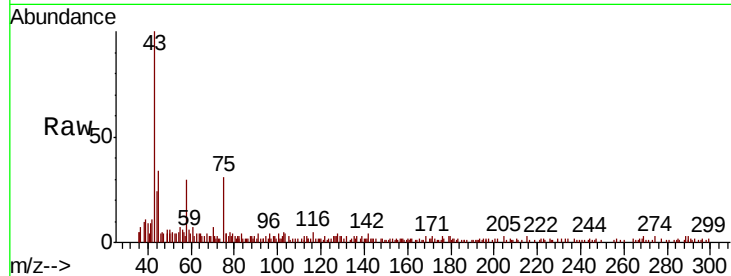




#16
Acetone
Concen: 3.787 ug/l
RT: 2.47 min Scan# 259
Delta R.T. 0.04 min
Lab File: VX0137855.D
Acq: 09 Dec 2019 16:57

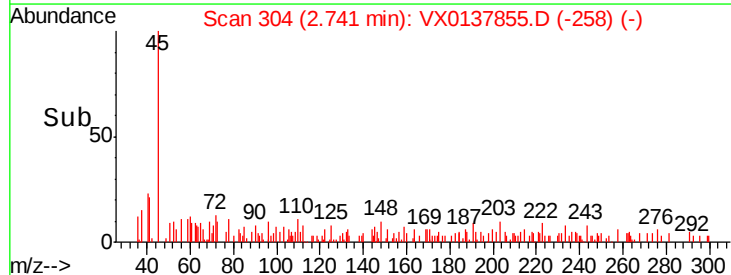
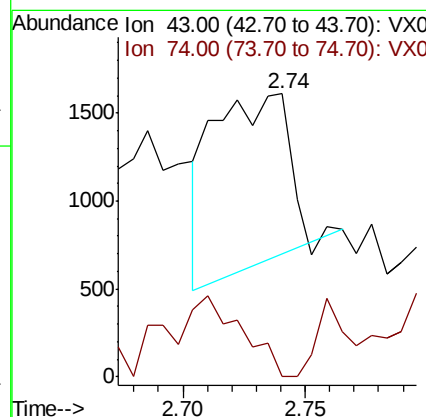
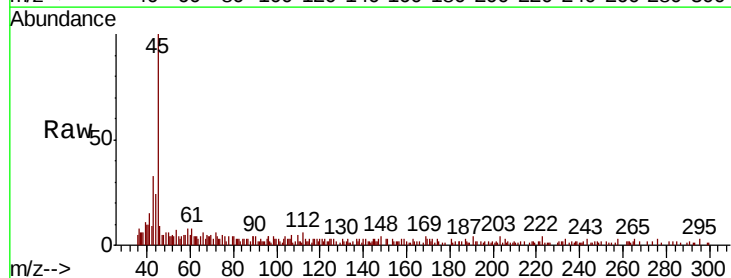
Instrument :
MSVOA_X
ClientSampleId :

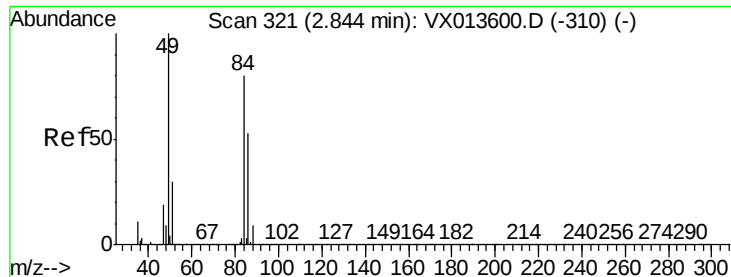
Tot Ion: 43 Resp: 12768
Ion Ratio Lower Upper
43 100
58 27.5 24.6 36.8



#18
Methyl Acetate
Concen: 0.229 ug/l
RT: 2.74 min Scan# 304
Delta R.T. -0.02 min
Lab File: VX0137855.D
Acq: 09 Dec 2019 16:57

Tgt Ion: 43 Resp: 2148
Ion Ratio Lower Upper
43 100
74 17.3 19.5 29.3#

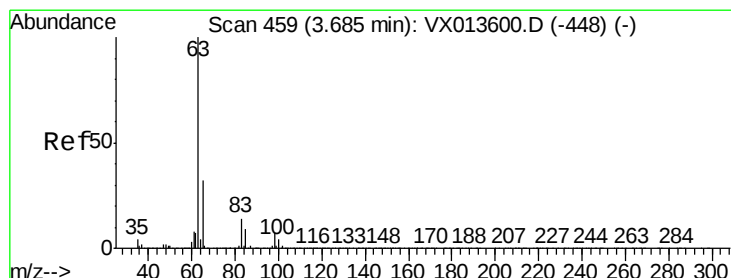
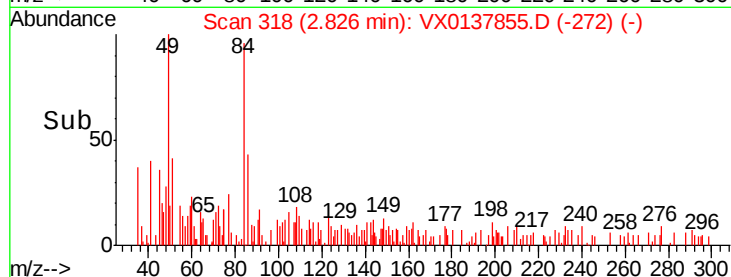
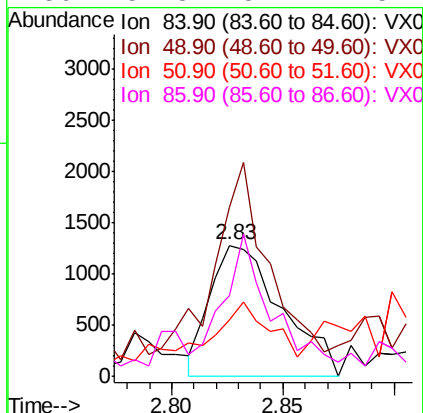
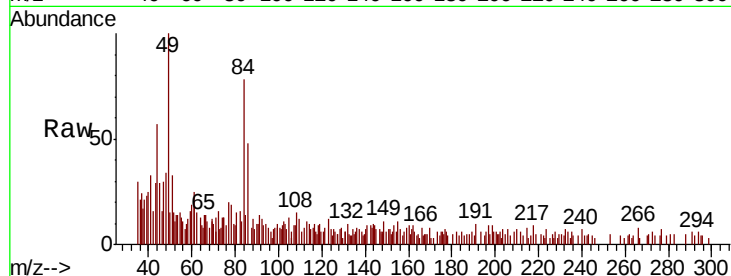




#20
Methvlene Chloride
Concen: 0.442 ug/l
RT: 2.83 min Scan# 318
Delta R.T. -0.02 min
Lab File: VX0137855.D
Acq: 09 Dec 2019 16:57

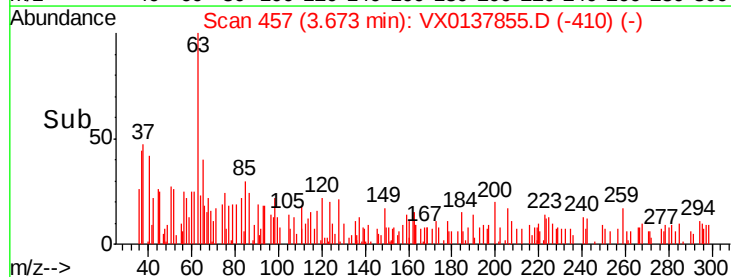
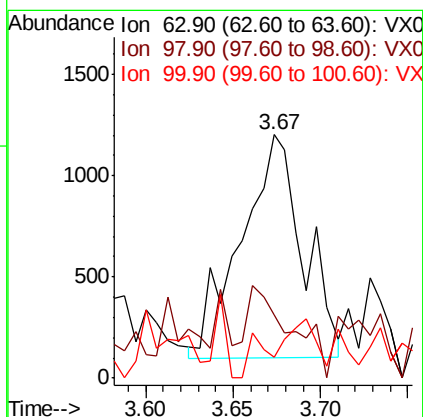
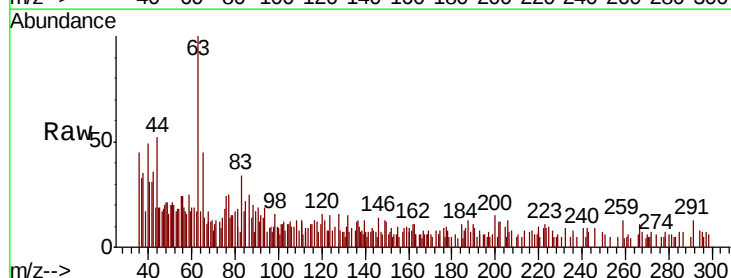
Instrument :
MSVOA_X
ClientSampleId :

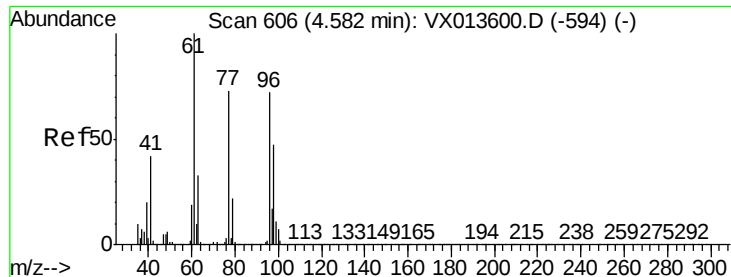
Tot Ion: 84 Resp: 2863
Ion Ratio Lower Upper
84 100
49 91.4 99.7 149.5#
51 17.4 29.9 44.9#
86 51.3 52.2 78.4#



#24
1,1-Dichloroethane
Concen: 0.257 ug/l
RT: 3.67 min Scan# 457
Delta R.T. -0.01 min
Lab File: VX0137855.D
Acq: 09 Dec 2019 16:57

Tgt Ion: 63 Resp: 2745
Ion Ratio Lower Upper
63 100
98 6.5 3.5 10.4
100 0.0 2.1 6.3#



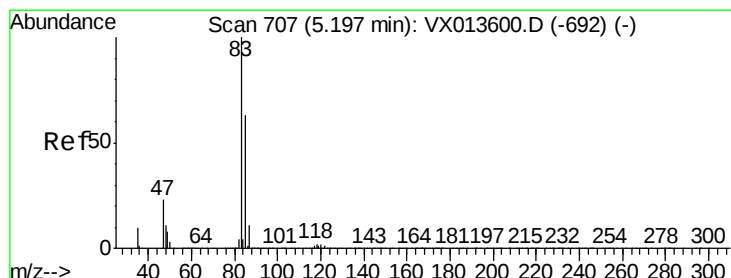
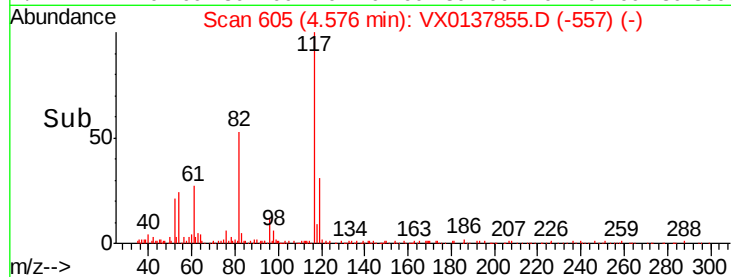
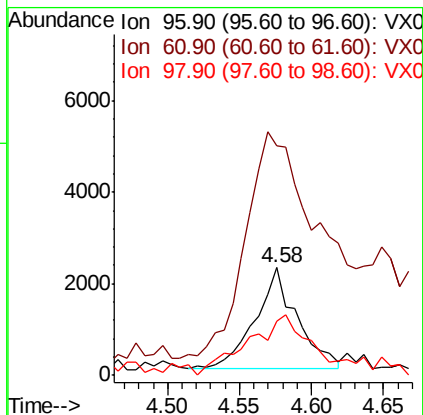
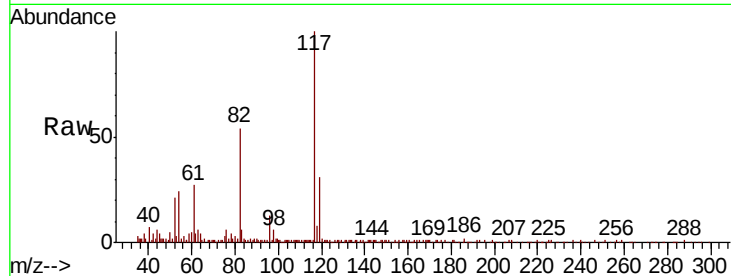


#27

cis-1,2-Dichloroethene
 Concen: 0.630 ug/l
 RT: 4.58 min Scan# 605
 Delta R.T. -0.01 min
 Lab File: VX0137855.D
 Acq: 09 Dec 2019 16:57

Instrument :
 MSVOA_X
 ClientSampled :

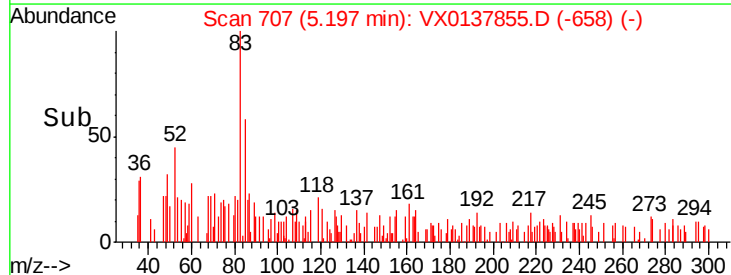
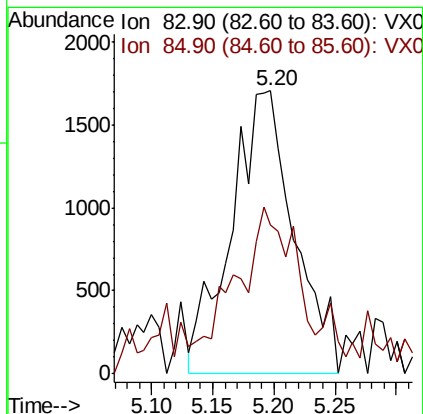
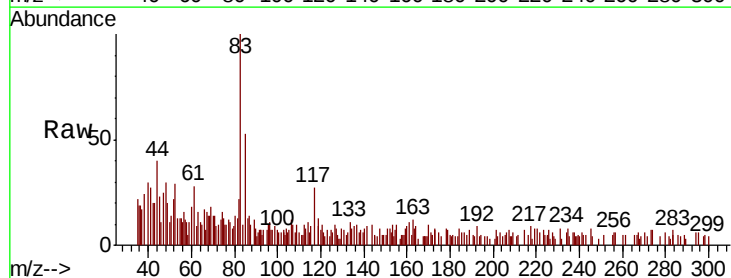
Tot Ion: 96 Resp: 4414
 Ion Ratio Lower Upper
 96 100
 61 400.4 0.0 286.4#
 98 89.6 0.0 127.4

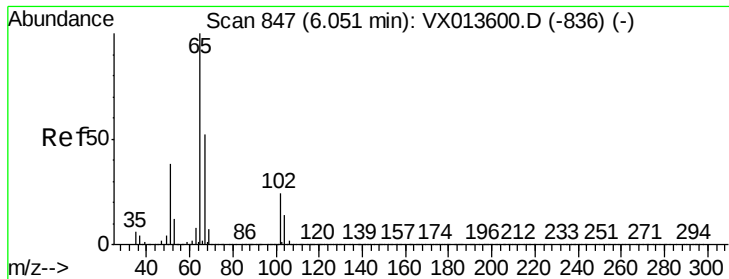


#30

Chloroform
 Concen: 0.566 ug/l
 RT: 5.20 min Scan# 707
 Delta R.T. 0.00 min
 Lab File: VX0137855.D
 Acq: 09 Dec 2019 16:57

Tgt Ion: 83 Resp: 6142
 Ion Ratio Lower Upper
 83 100
 85 46.6 50.2 75.4#





#33

1,2-Dichloroethane-d4

Concen: 47.611 ug/l

RT: 6.04 min Scan# 846

Delta R.T. -0.01 min

Lab File: VX0137855.D

Acq: 09 Dec 2019 16:57

Instrument :

MSVOA_X

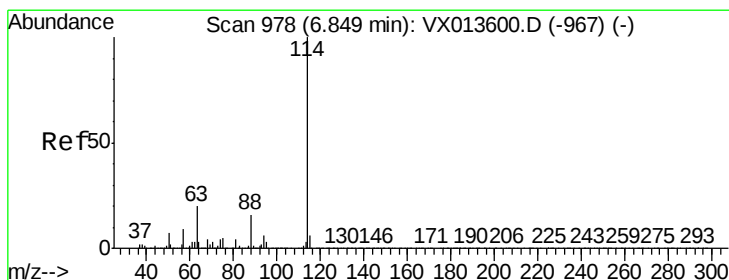
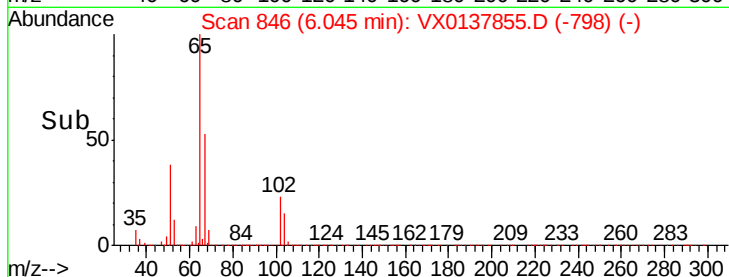
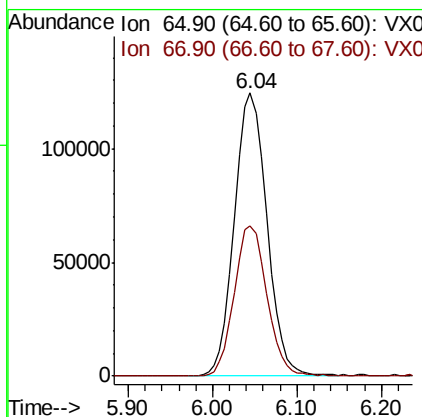
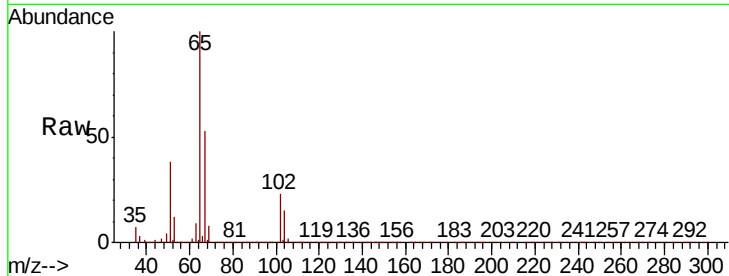
ClientSampleId :

Tot Ion: 65 Resp: 325123

Ion Ratio Lower Upper

65 100

67 53.1 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 977

Delta R.T. -0.01 min

Lab File: VX0137855.D

Acq: 09 Dec 2019 16:57

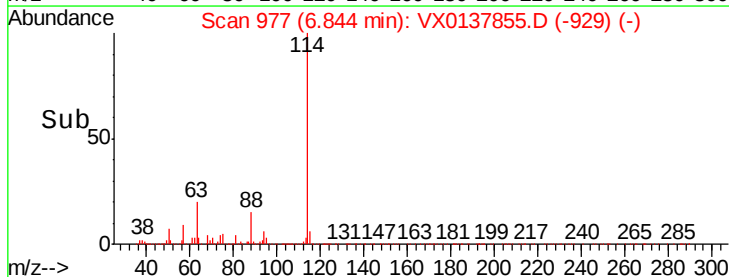
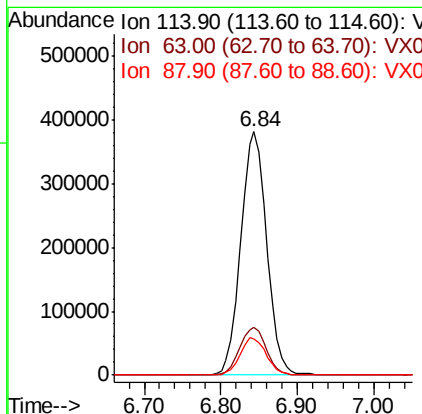
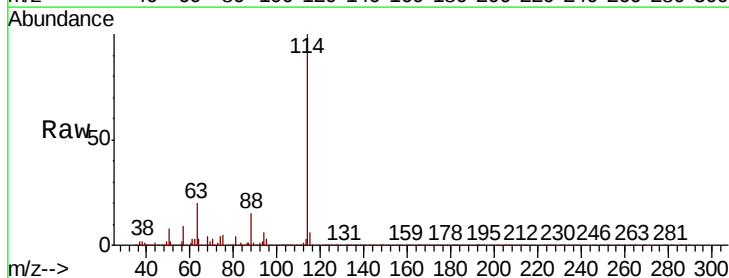
Tgt Ion: 114 Resp: 896714

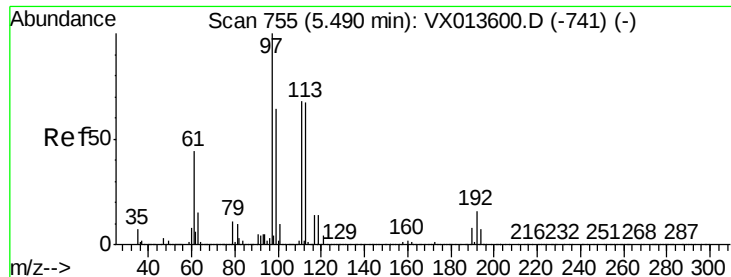
Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.6

88 15.0 0.0 31.4





#35

Dibromofluoromethane

Concen: 45.364 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX0137855.D

Acq: 09 Dec 2019 16:57

Instrument :
MSVOA_X
ClientSampleId :

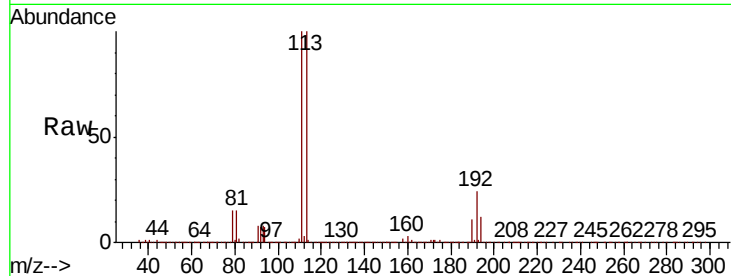
Tot Ion:113 Resp: 251479

Ion Ratio Lower Upper

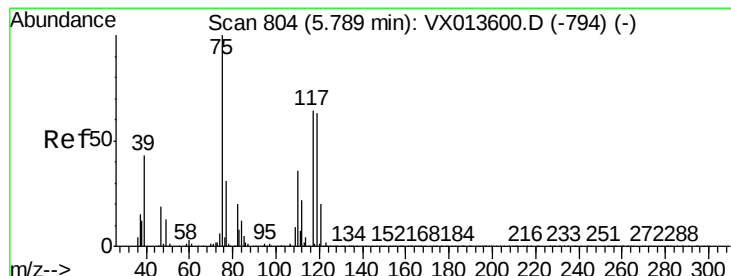
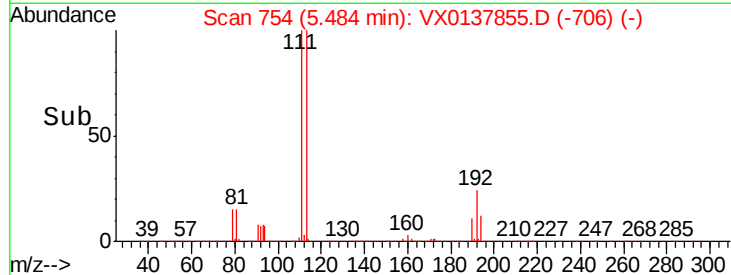
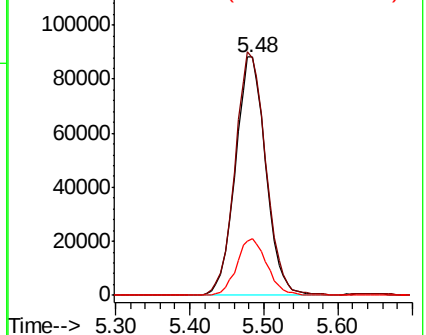
113 100

111 103.4 83.6 125.4

192 23.7 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: 4.733 ug/l

RT: 5.64 min Scan# 779

Delta R.T. -0.15 min

Lab File: VX0137855.D

Acq: 09 Dec 2019 16:57

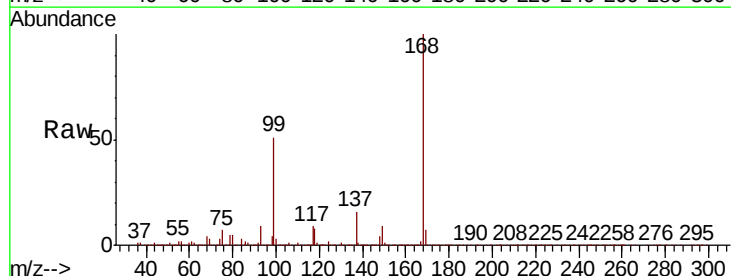
Tgt Ion: 75 Resp: 38524

Ion Ratio Lower Upper

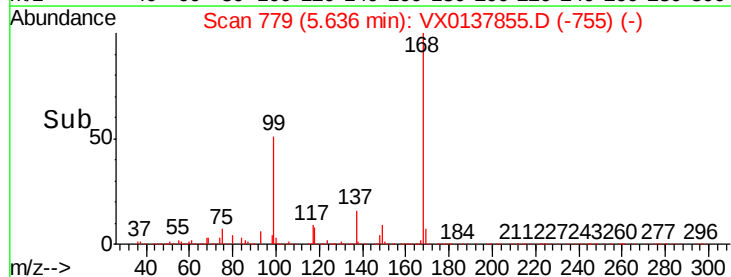
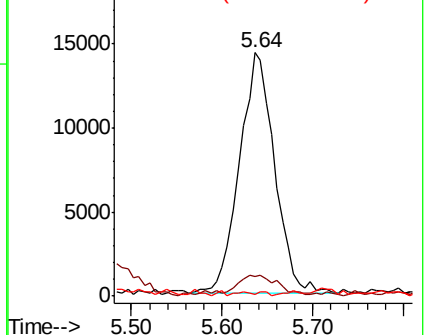
75 100

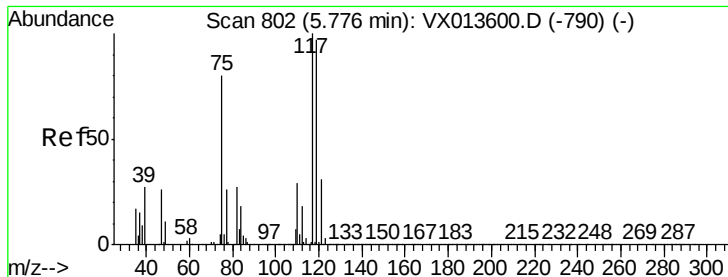
110 9.3 18.1 54.1#

77 0.5 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 0.304 ug/l

RT: 5.75 min Scan# 798

Delta R.T. -0.02 min

Lab File: VX0137855.D

Acq: 09 Dec 2019 16:57

Instrument :

MSVOA_X

ClientSampleId :

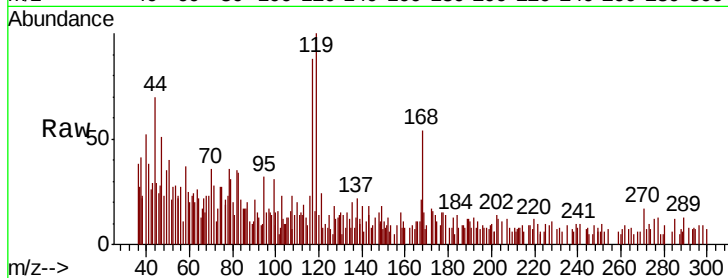
Tot Ion:117 Resp: 2284

Ion Ratio Lower Upper

117 100

119 116.1 77.5 116.3

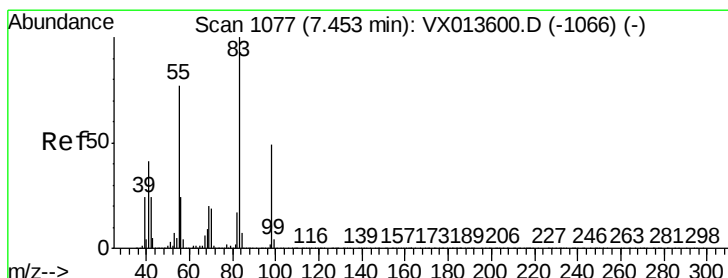
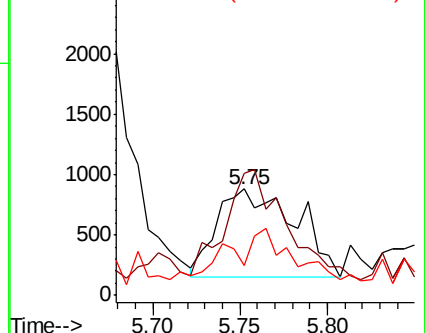
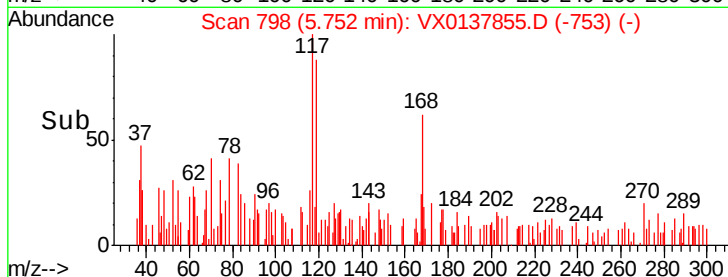
121 16.2 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 4.764 ug/l

RT: 7.20 min Scan# 1035

Delta R.T. -0.26 min

Lab File: VX0137855.D

Acq: 09 Dec 2019 16:57

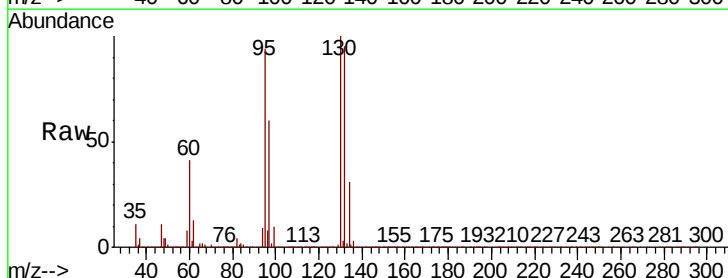
Tgt Ion: 83 Resp: 47930

Ion Ratio Lower Upper

83 100

55 0.6 61.9 92.9#

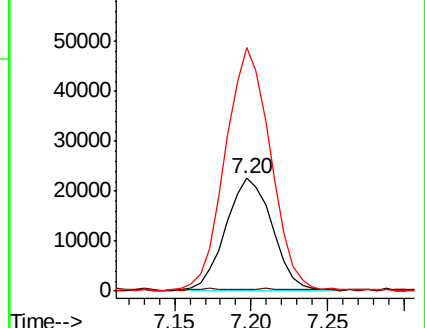
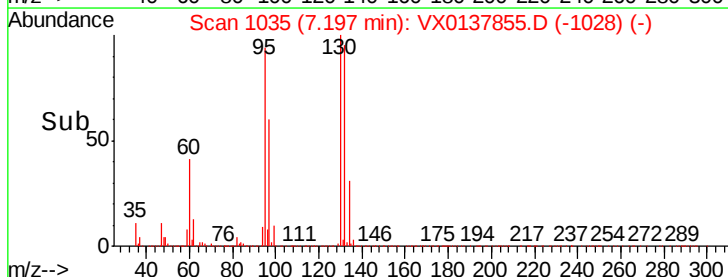
98 213.7 39.4 59.0#

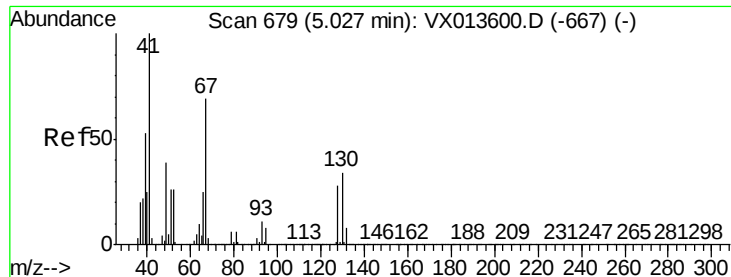


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

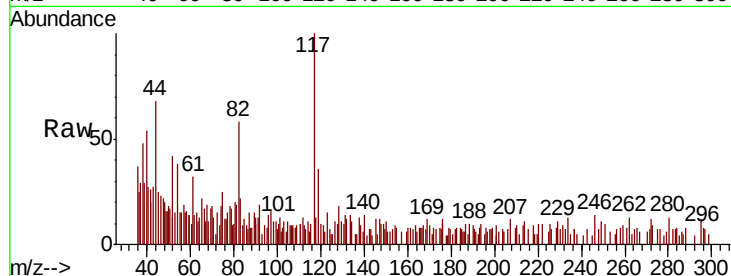




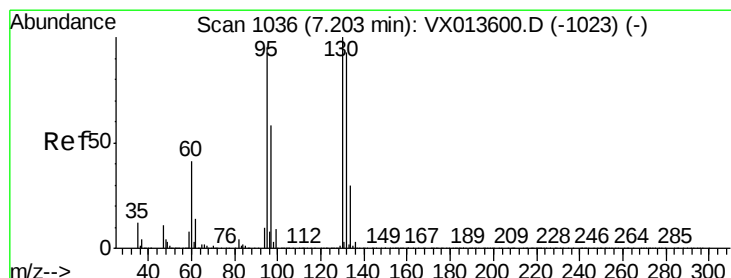
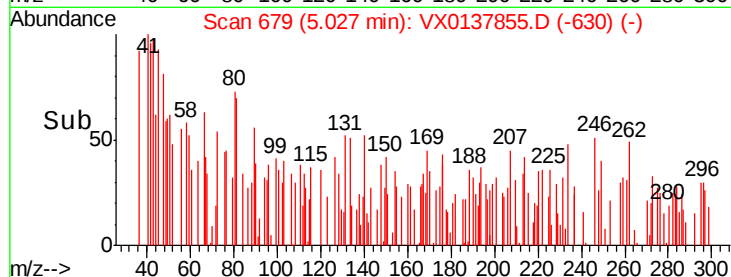
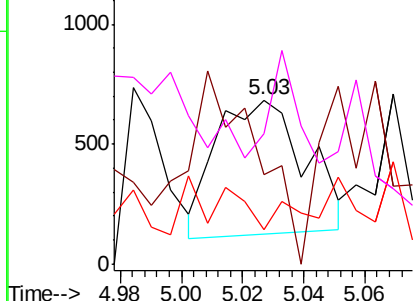
#41
Methacrylonitrile
Concen: 0.226 ug/l
RT: 5.03 min Scan# 679
Delta R.T. 0.00 min
Lab File: VX0137855.D
Acq: 09 Dec 2019 16:57

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	41	Resp:	1134
Ion	Ratio	Lower	Upper
41	100		
39	0.0	42.9	64.3#
67	0.0	57.4	86.0#
52	0.0	22.4	33.6#

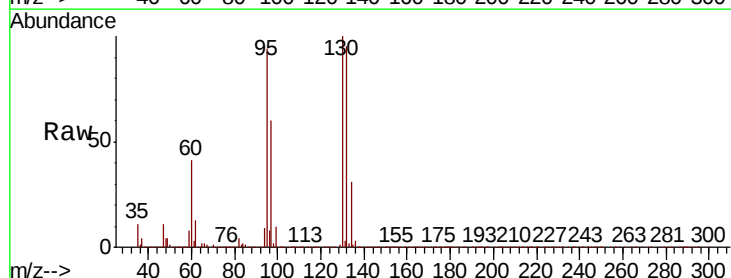


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0
Ion 67.00 (66.70 to 67.70): VX0
Ion 52.00 (51.70 to 52.70): VX0

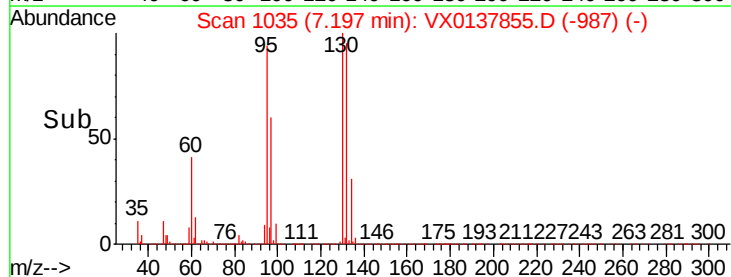
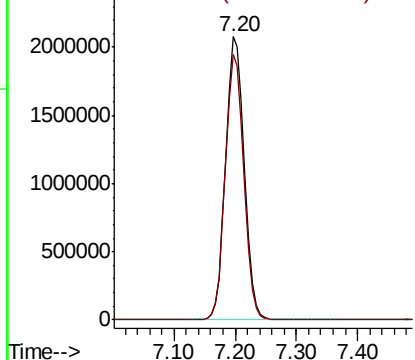


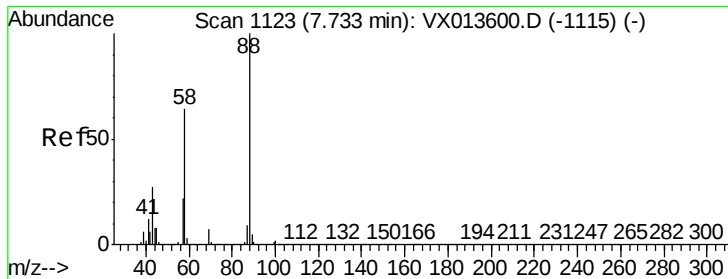
#44
Trichloroethene
Concen: 637.007 ug/l
RT: 7.20 min Scan# 1035
Delta R.T. -0.01 min
Lab File: VX0137855.D
Acq: 09 Dec 2019 16:57

Tgt Ion:	130	Resp:	4334159
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





#49

1,4-Dioxane

Concen: 1.945 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

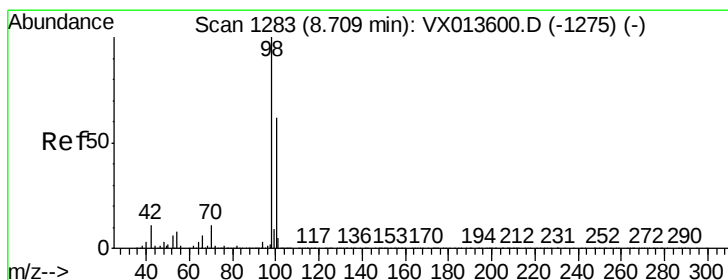
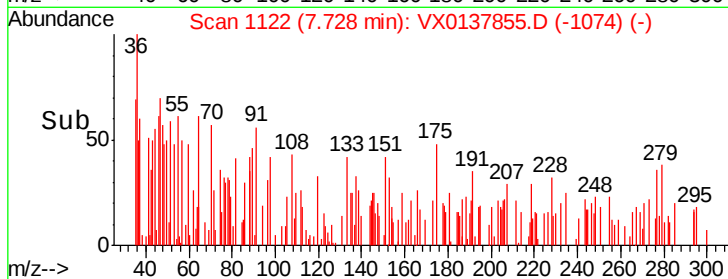
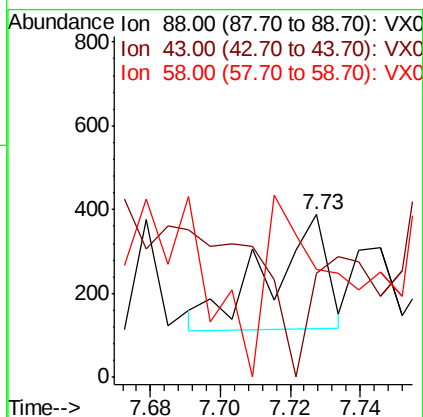
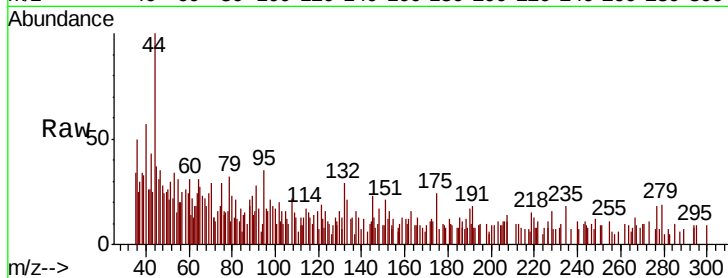
Lab File: VX0137855.D

Acq: 09 Dec 2019 16:57

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 88 Resp: 318

Ion	Ratio	Lower	Upper
88	100		
43	115.7	25.8	38.6#
58	171.4	54.6	82.0#



#50

Toluene-d8

Concen: 48.857 ug/l

RT: 8.71 min Scan# 1283

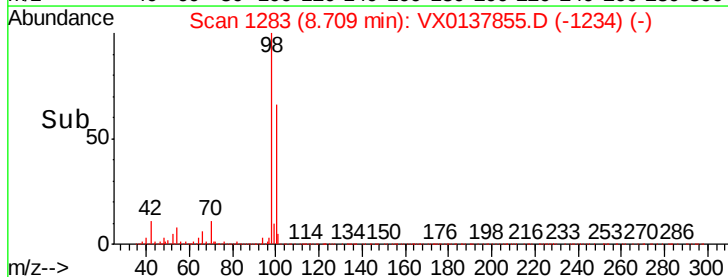
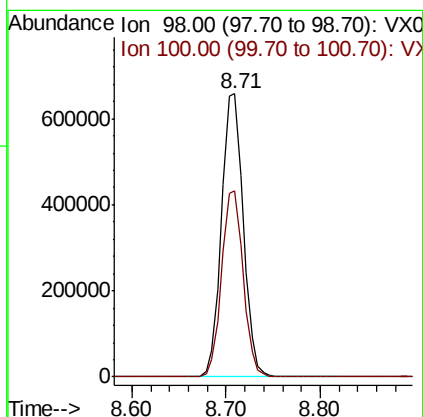
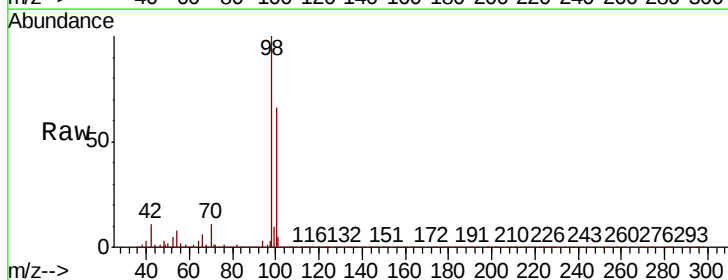
Delta R.T. 0.00 min

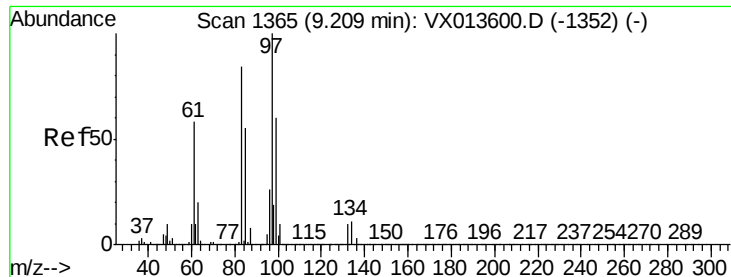
Lab File: VX0137855.D

Acq: 09 Dec 2019 16:57

Tgt Ion: 98 Resp: 1055236

Ion	Ratio	Lower	Upper
98	100		
100	65.3	53.1	79.7





#55

1,1,2-Trichloroethane

Concen: 0.528 ug/l

RT: 9.22 min Scan# 1366

Delta R.T. 0.01 min

Lab File: VX0137855.D

Acq: 09 Dec 2019 16:57

Instrument :

MSVOA_X

ClientSampled :

Tot Ion: 97 Resp: 3280

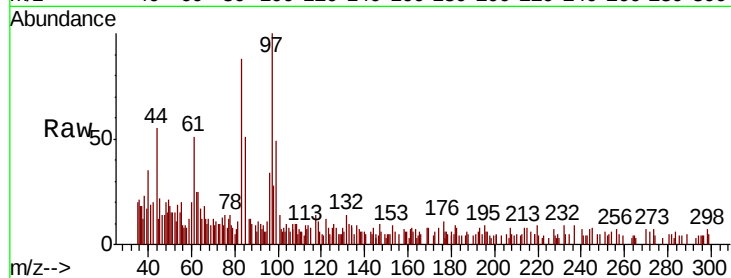
Ion Ratio Lower Upper

97 100

83 80.1 67.3 100.9

85 40.1 43.6 65.4#

99 43.0 48.2 72.4#

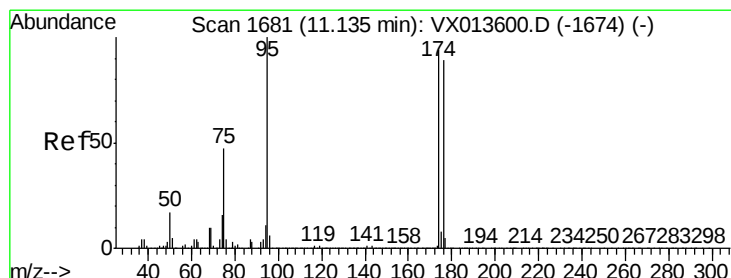
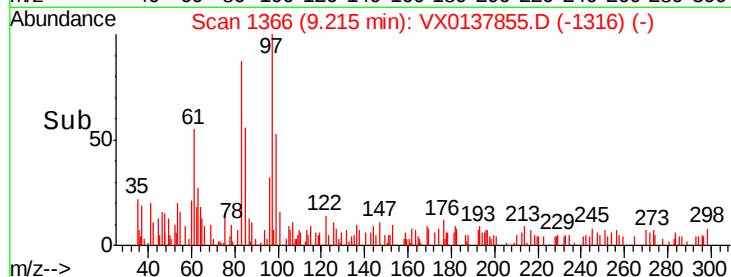
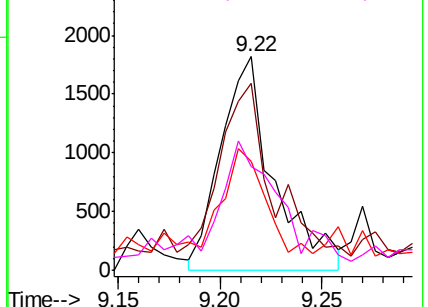


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0



#62

4-Bromofluorobenzene

Concen: 44.984 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX0137855.D

Acq: 09 Dec 2019 16:57

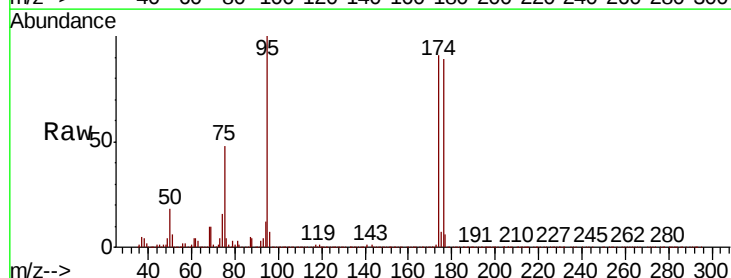
Tgt Ion: 95 Resp: 350360

Ion Ratio Lower Upper

95 100

174 88.8 0.0 180.0

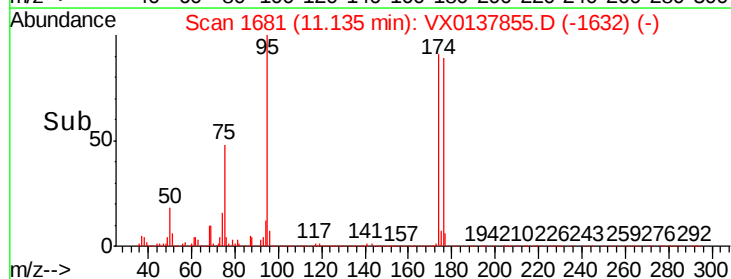
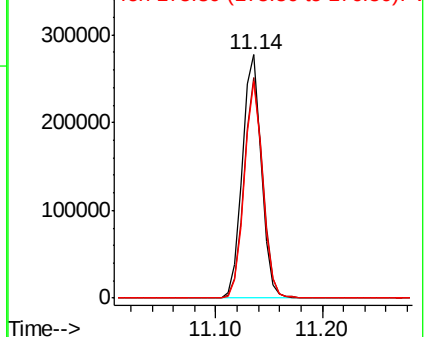
176 86.1 0.0 173.6

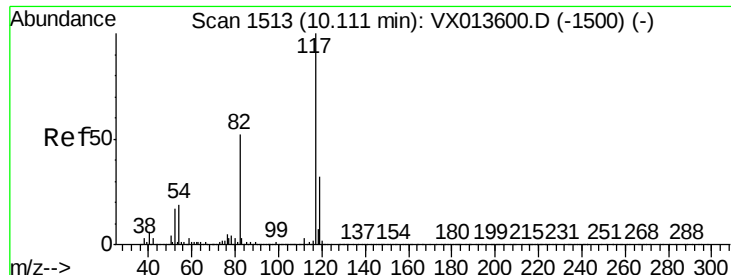


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

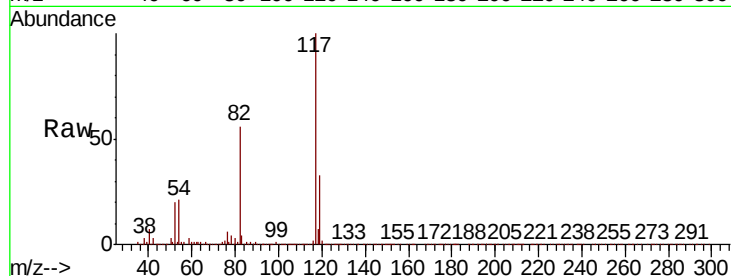




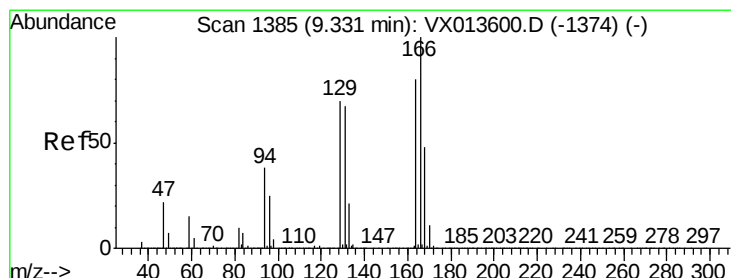
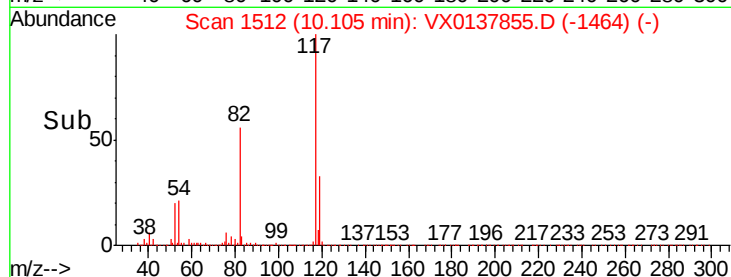
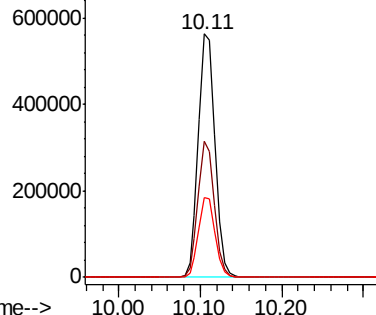
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX0137855.D
Acq: 09 Dec 2019 16:57

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.8	41.8	62.8
119	32.5	25.8	38.8

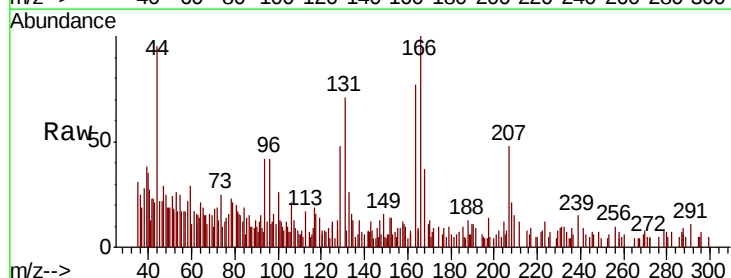


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

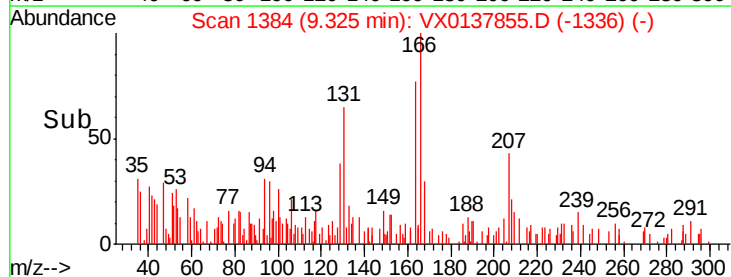
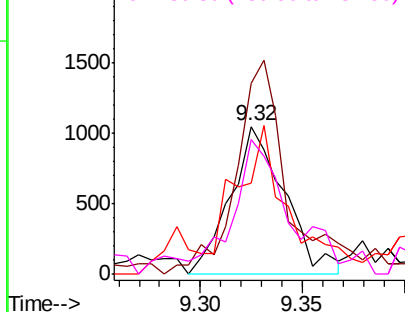


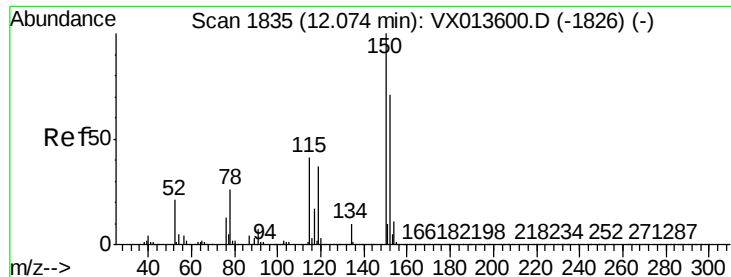
#64
Tetrachloroethene
Concen: 0.325 ug/l
RT: 9.32 min Scan# 1384
Delta R.T. -0.01 min
Lab File: VX0137855.D
Acq: 09 Dec 2019 16:57

Tgt Ion	Ratio	Lower	Upper
164	100		
166	123.3	99.7	149.5
129	45.2	70.1	105.1#
131	84.0	66.9	100.3



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V



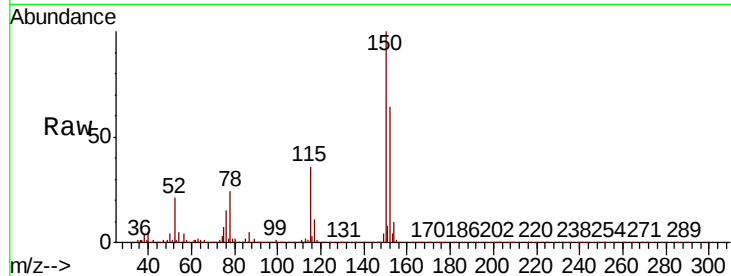


#72

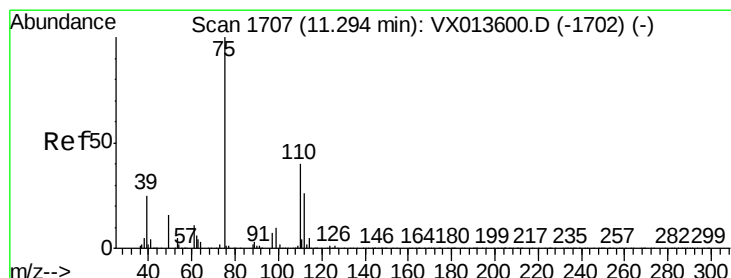
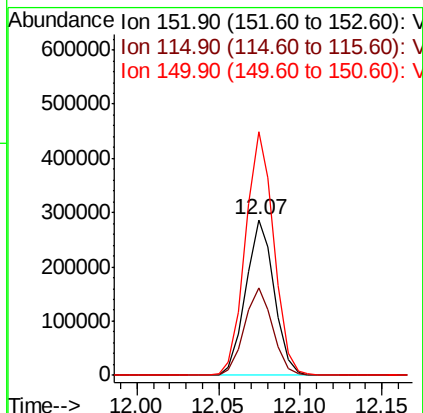
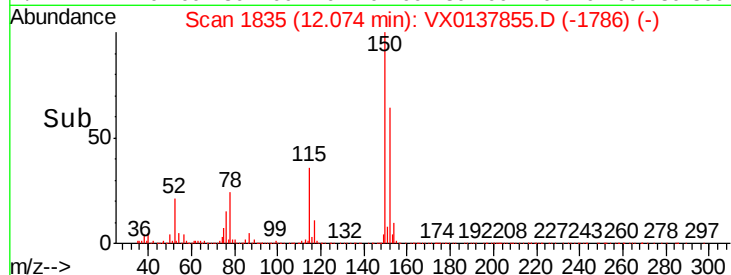
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX0137855.D
Acq: 09 Dec 2019 16:57

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	56.3	38.4	115.1
150	157.1	0.0	346.8



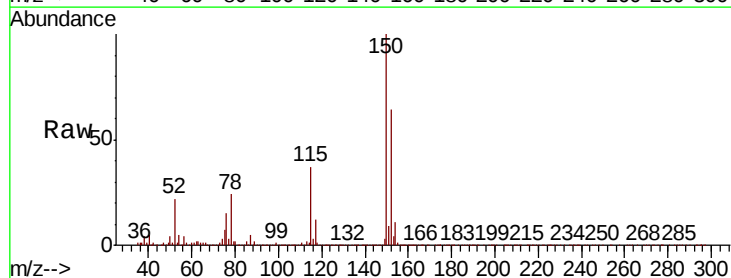
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



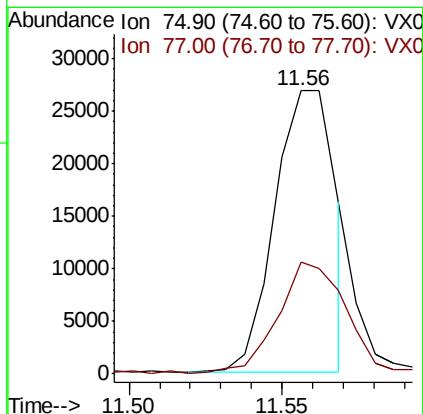
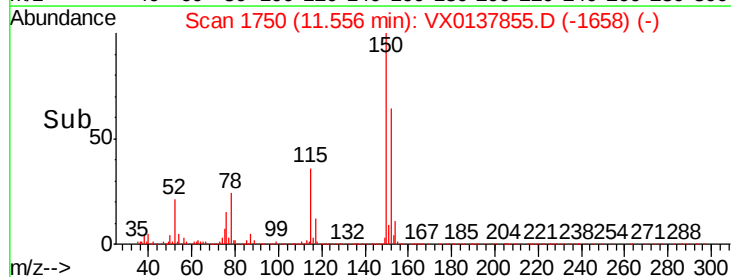
#76

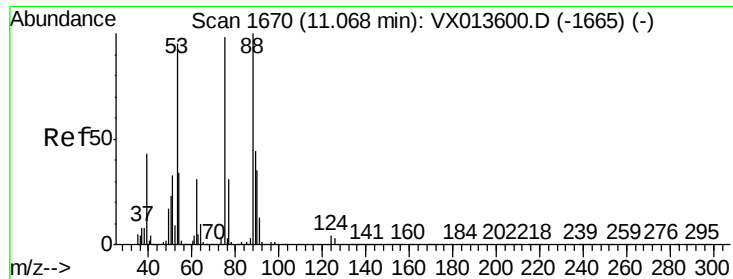
1,2,3-Trichloropropane
Concen: 4.681 ug/l
RT: 11.56 min Scan# 1750
Delta R.T. 0.26 min
Lab File: VX0137855.D
Acq: 09 Dec 2019 16:57

Tgt Ion	Ratio	Lower	Upper
75	100		
77	38.7	19.1	57.5



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 59.070 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX0137855.D

Acq: 09 Dec 2019 16:57

Instrument :

MSVOA_X

ClientSampleId :

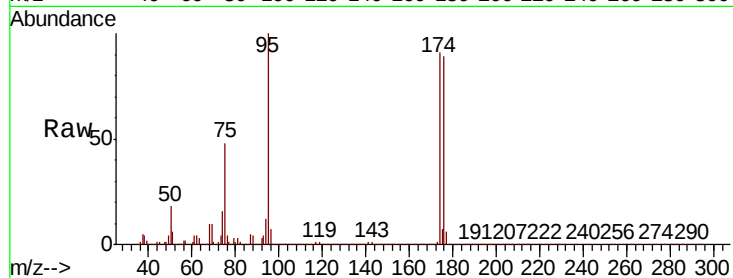
Tot Ion: 75 Resp: 169022

Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.2#

89 0.1 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

