

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031119\
 Data File : VX007982.D
 Acq On : 11 Mar 2019 20:43
 Operator : JC/SP
 Sample : K1841-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE125D1-20190308

Quant Time: Mar 12 08:41:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 07 07:33:26 2019
 Response via : Initial Calibration

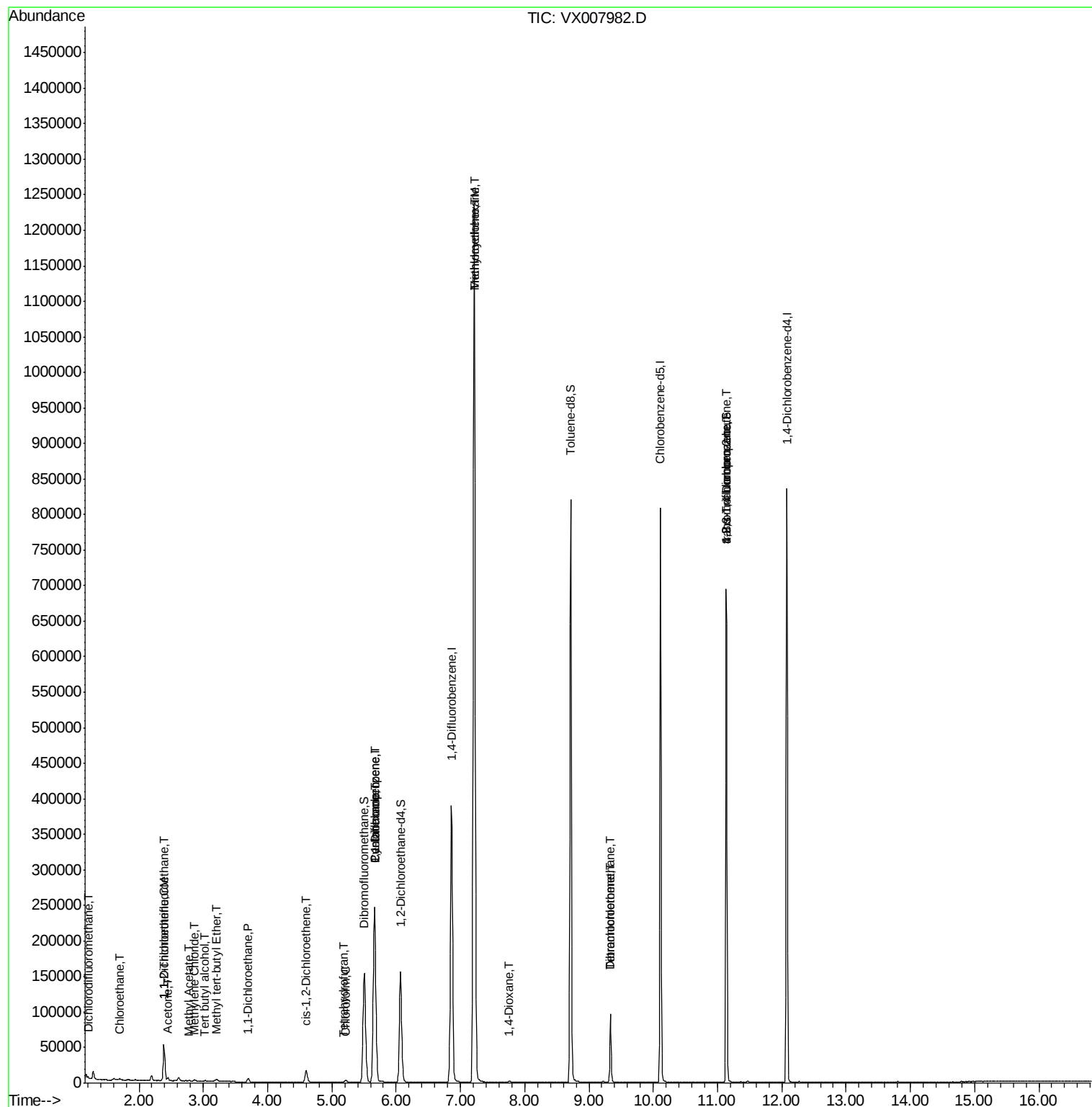
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	260480	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	407567	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	388851	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	189926	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	142746	51.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.90%	
35) Dibromofluoromethane	5.50	113	132194	50.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.42%	
50) Toluene-d8	8.71	98	497345	51.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.88%	
62) 4-Bromofluorobenzene	11.13	95	183167	54.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.12%	
Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.20	85	752	0.338	ug/l #	61
5) Bromomethane	1.66	94	127	Below Cal	#	53
6) Chloroethane	1.70	64	3490	1.844	ug/l #	70
9) 1,1,2-Trichlorotrifluoroet	2.39	101	17709	7.703	ug/l	99
11) Tert butyl alcohol	3.02	59	638	1.038	ug/l #	73
12) 1,1-Dichloroethene	2.38	96	3988	1.799	ug/l	94
16) Acetone	2.45	43	3999	2.514	ug/l	96
17) Carbon Disulfide	2.57	76	537	Below Cal	#	64
18) Methyl Acetate	2.78	43	819	0.242	ug/l #	87
19) Methyl tert-butyl Ether	3.21	73	3144	0.412	ug/l #	85
20) Methylene Chloride	2.86	84	634	0.250	ug/l #	85
24) 1,1-Dichloroethane	3.70	63	6219	1.354	ug/l	93
27) cis-1,2-Dichloroethene	4.60	96	10489	3.759	ug/l	91
29) Tetrahydrofuran	5.18	42	346	0.246	ug/l #	47
30) Chloroform	5.21	83	3088	0.711	ug/l	90
31) Cyclohexane	5.67	56	3945	0.934	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	16107	4.365	ug/l #	49
39) Methylcyclohexane	7.21	83	5659	1.265	ug/l #	1
44) Trichloroethene	7.21	130	513646	169.648	ug/l	100
49) 1,4-Dioxane	7.75	88	1429	20.414	ug/l	94
60) Dibromochloromethane	9.34	129	18060	6.363	ug/l #	11
64) Tetrachloroethene	9.34	164	20267	6.289	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	83779	21.021	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	83779	67.194	ug/l #	11

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

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QLast Update : Thu Mar 07 07:33:26 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX007982.D

Acq: 11 Mar 2019 20:43

Instrument :

MSVOA_X

ClientSampleId :

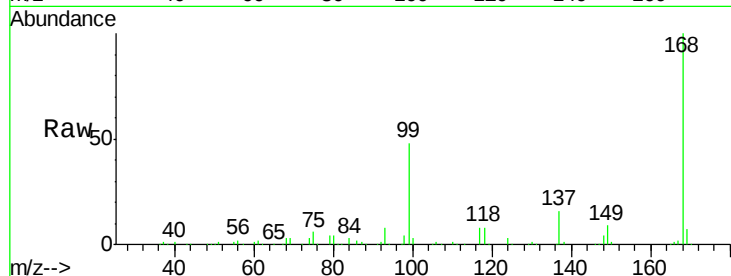
RE125D1-20190308

Tot Ion:168 Resp: 260480

Ion Ratio Lower Upper

168 100

99 48.1 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

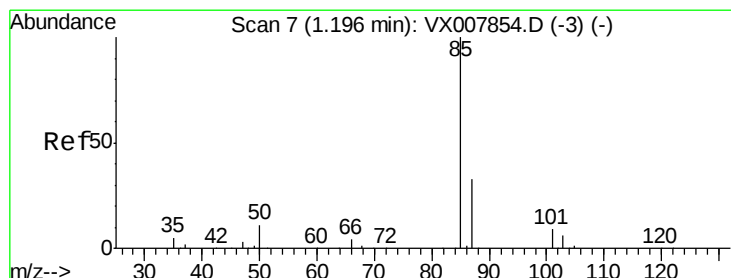
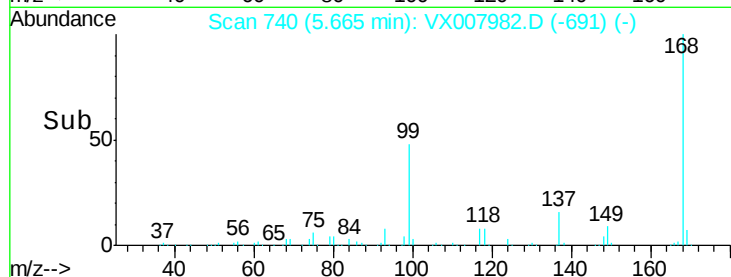
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.338 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX007982.D

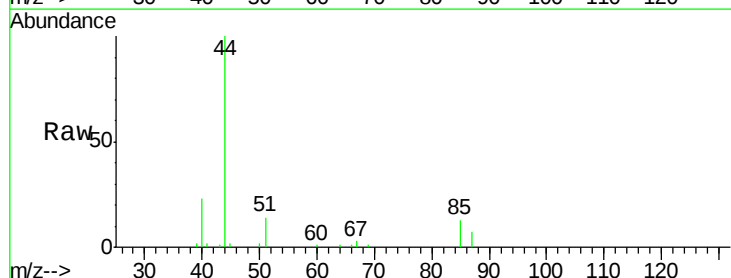
Acq: 11 Mar 2019 20:43

Tgt Ion: 85 Resp: 752

Ion Ratio Lower Upper

85 100

87 54.6 16.4 49.1#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

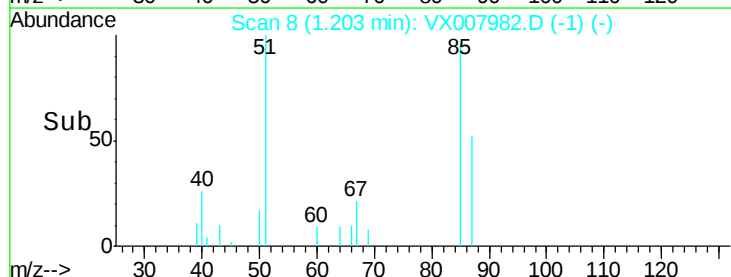
600

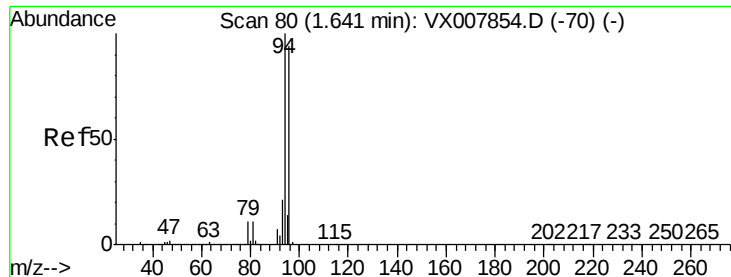
400

200

0

Time--> 1.18 1.20 1.22 1.24





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX007982.D

Acq: 11 Mar 2019 20:43

Instrument :

MSVOA_X

ClientSampleId :

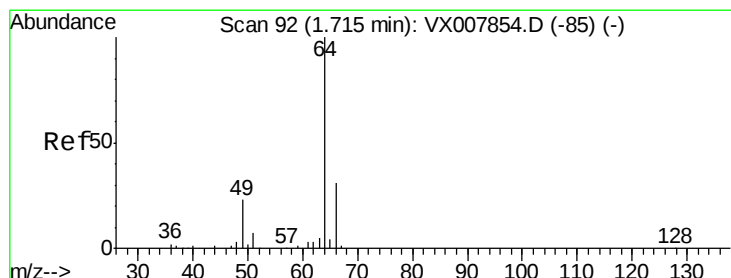
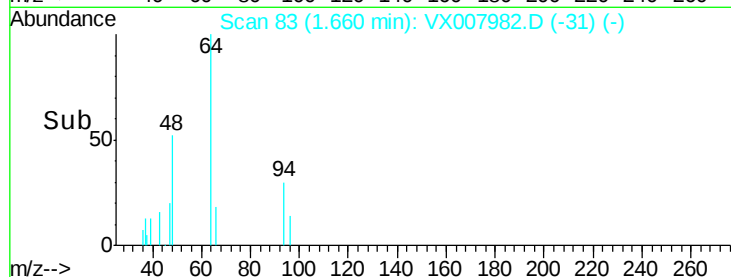
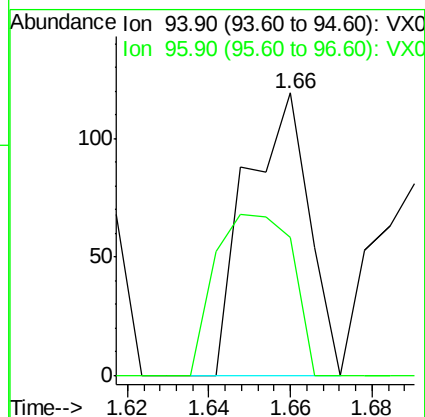
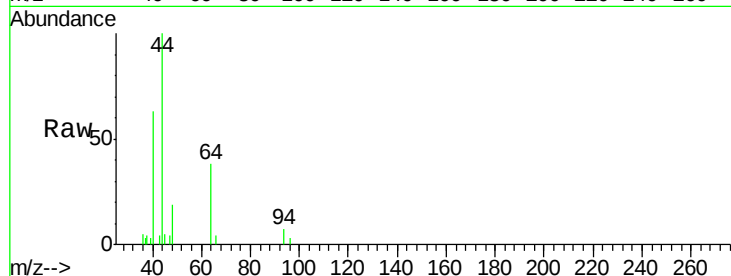
RE125D1-20190308

Tot Ion: 94 Resp: 127

Ion Ratio Lower Upper

94 100

96 48.7 75.5 113.3#



#6

Chloroethane

Concen: 1.844 ug/l

RT: 1.70 min Scan# 89

Delta R.T. -0.02 min

Lab File: VX007982.D

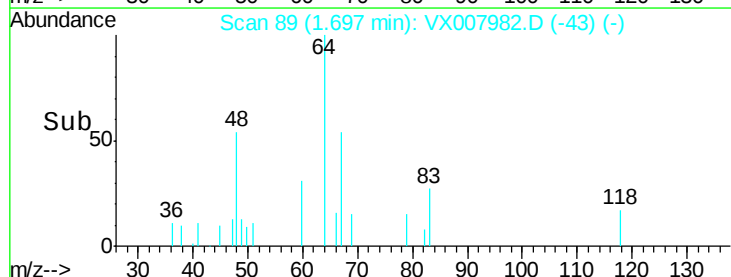
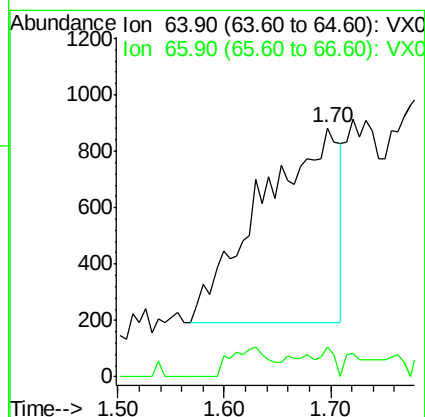
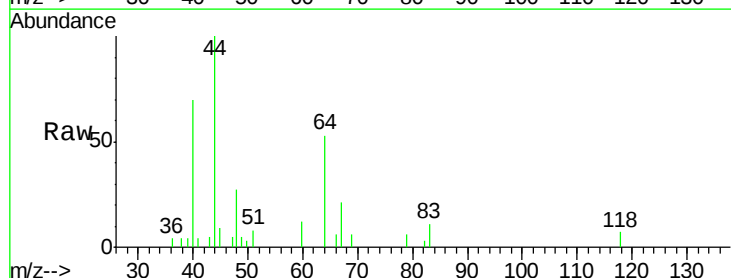
Acq: 11 Mar 2019 20:43

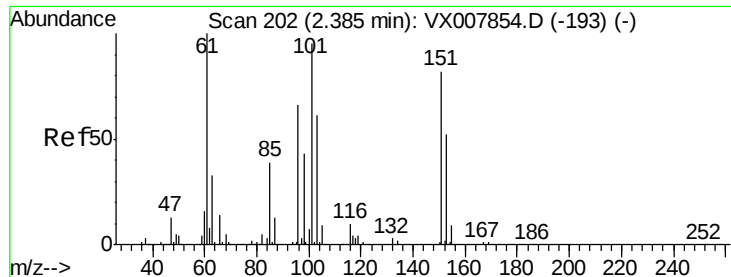
Tgt Ion: 64 Resp: 3490

Ion Ratio Lower Upper

64 100

66 15.0 25.2 37.8#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 7.703 ug/l

RT: 2.39 min Scan# 203

Delta R.T. 0.01 min

Lab File: VX007982.D

Acq: 11 Mar 2019 20:43

Instrument :

MSVOA_X

ClientSampleId :

RE125D1-20190308

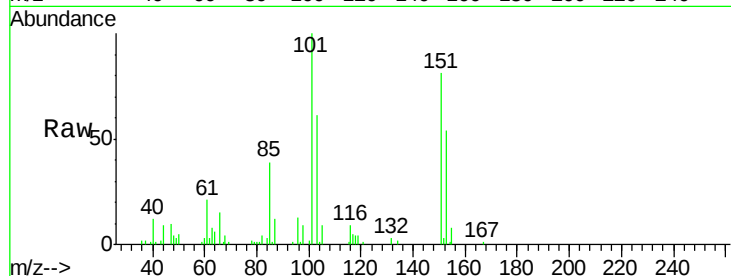
Tot Ion:101 Resp: 17709

Ion Ratio Lower Upper

101 100

85 41.7 33.8 50.6

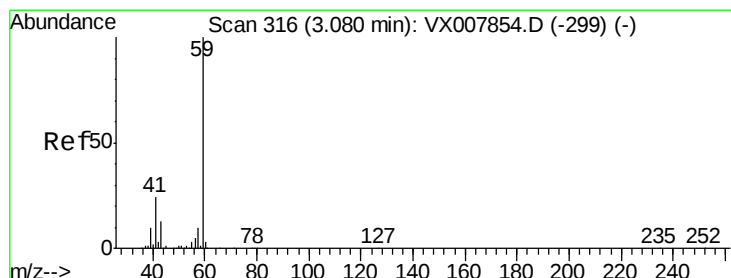
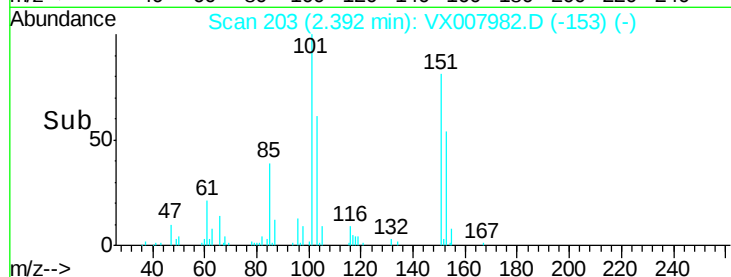
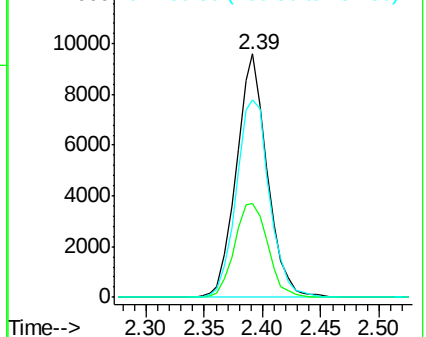
151 87.2 69.1 103.7



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 1.038 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX007982.D

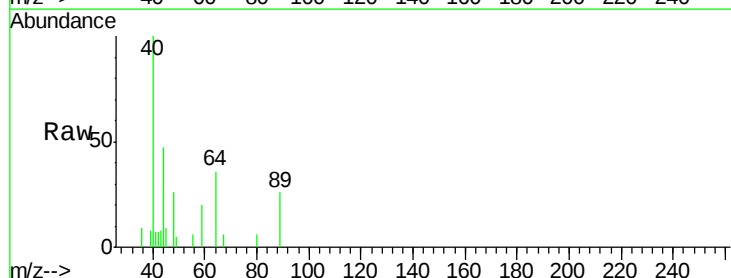
Acq: 11 Mar 2019 20:43

Tgt Ion: 59 Resp: 638

Ion Ratio Lower Upper

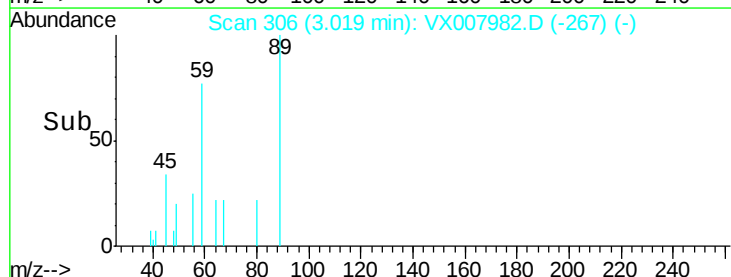
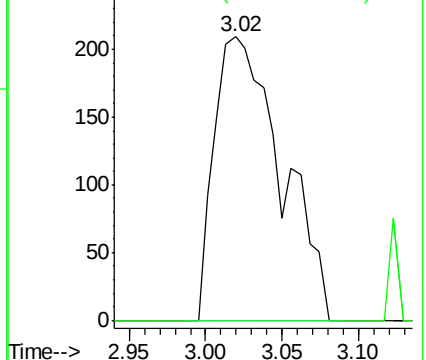
59 100

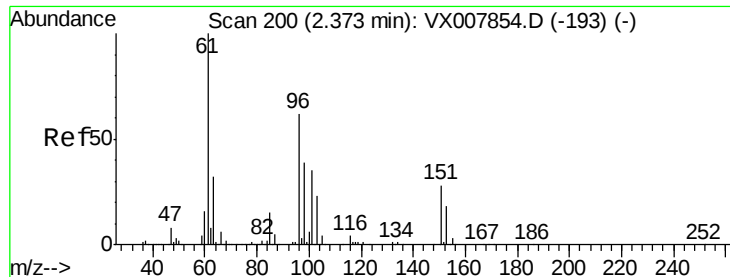
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 1.799 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.01 min

Lab File: VX007982.D

Acq: 11 Mar 2019 20:43

Instrument :

MSVOA_X

ClientSampleId :

RE125D1-20190308

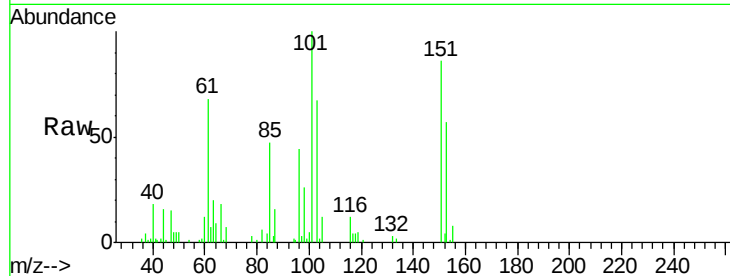
Tot Ion: 96 Resp: 3988

Ion Ratio Lower Upper

96 100

61 154.9 129.8 194.6

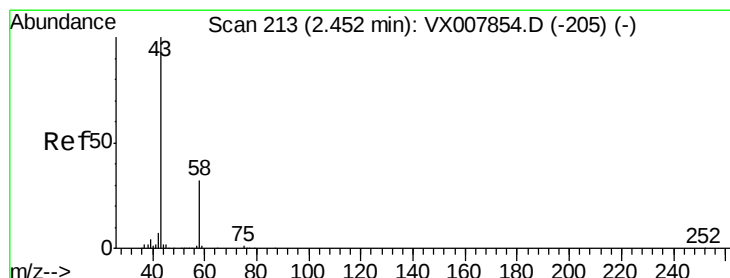
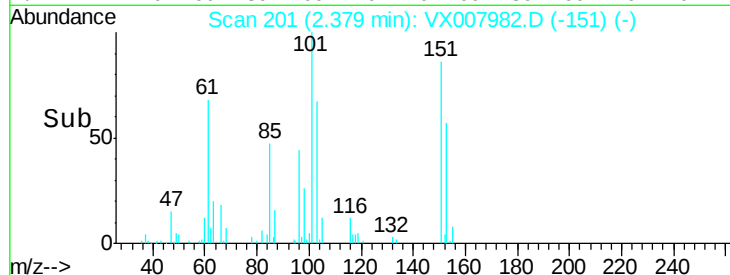
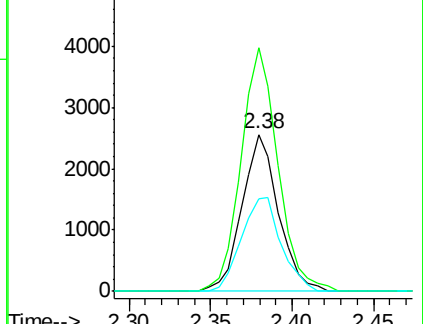
98 59.1 51.0 76.6



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



#16

Acetone

Concen: 2.514 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.01 min

Lab File: VX007982.D

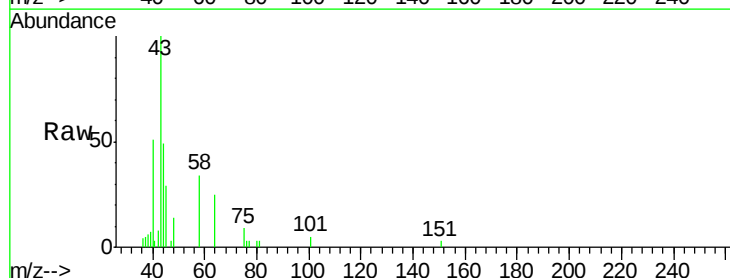
Acq: 11 Mar 2019 20:43

Tgt Ion: 43 Resp: 3999

Ion Ratio Lower Upper

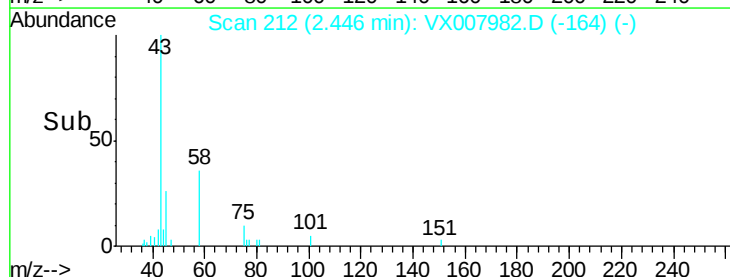
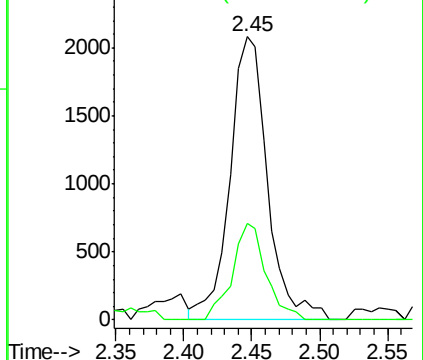
43 100

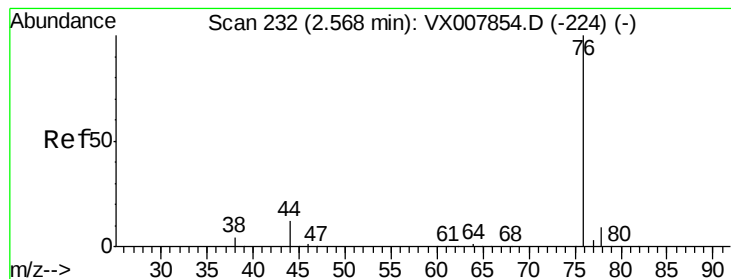
58 34.3 25.5 38.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX007982.D

Acq: 11 Mar 2019 20:43

Instrument :

MSVOA_X

ClientSampleId :

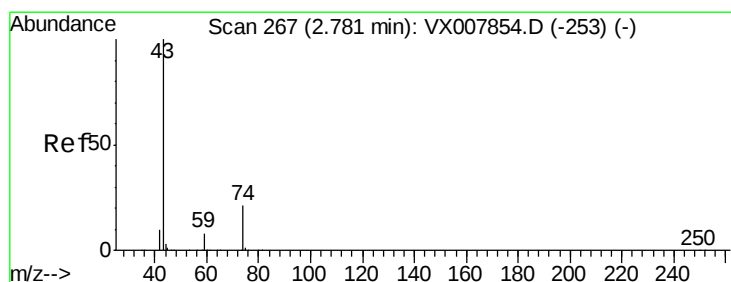
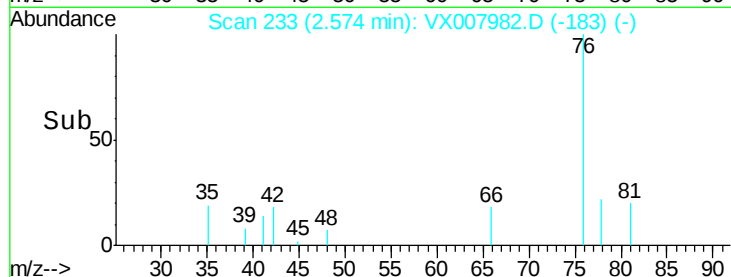
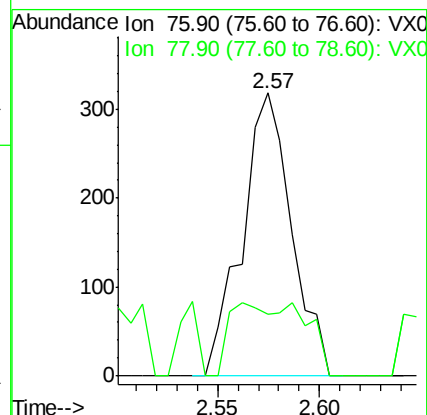
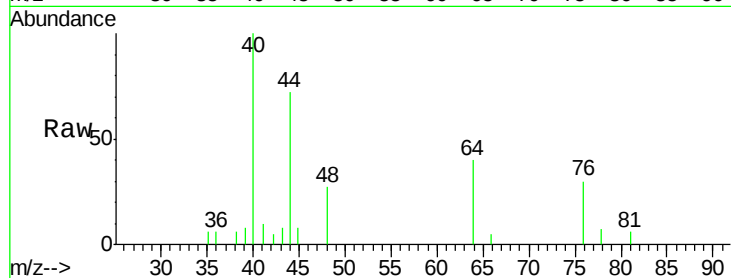
RE125D1-20190308

Tot Ion: 76 Resp: 537

Ion Ratio Lower Upper

76 100

78 22.0 7.2 10.8#



#18

Methyl Acetate

Concen: 0.242 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX007982.D

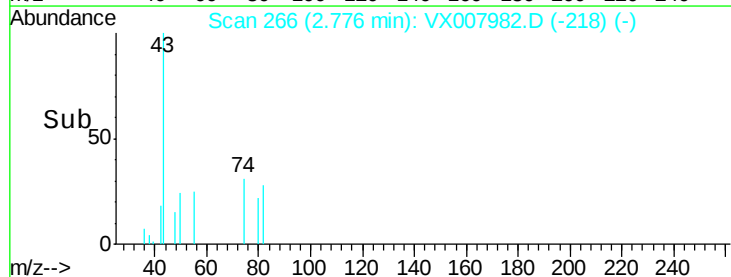
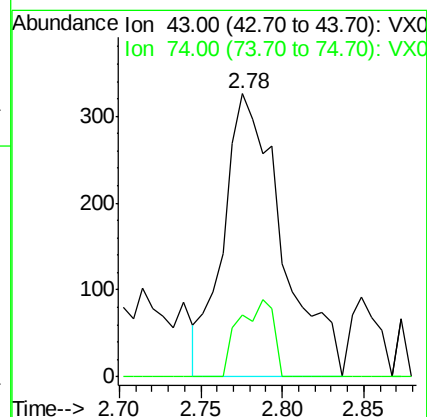
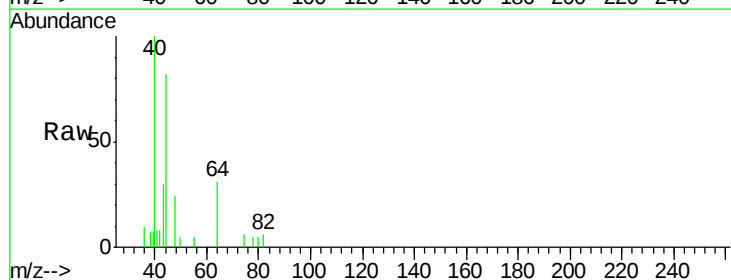
Acq: 11 Mar 2019 20:43

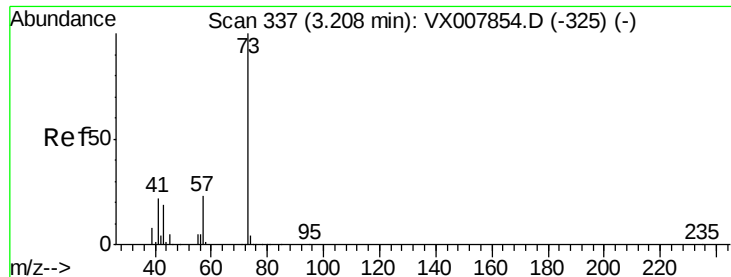
Tgt Ion: 43 Resp: 819

Ion Ratio Lower Upper

43 100

74 16.0 17.8 26.6#



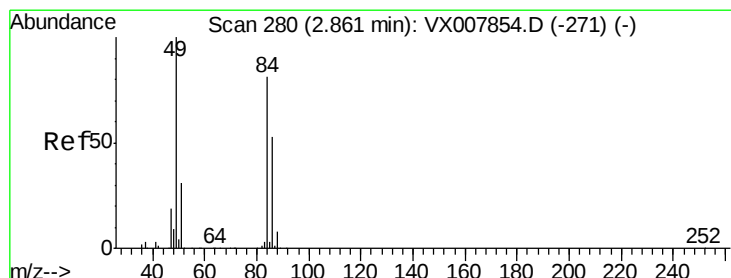
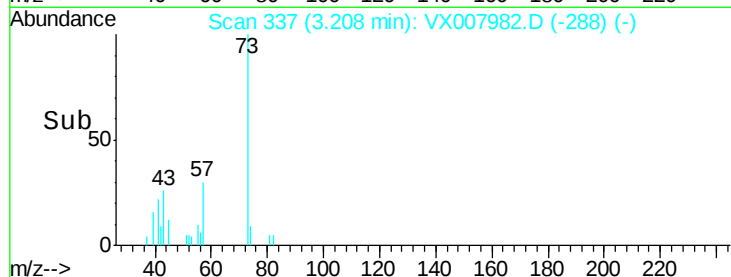
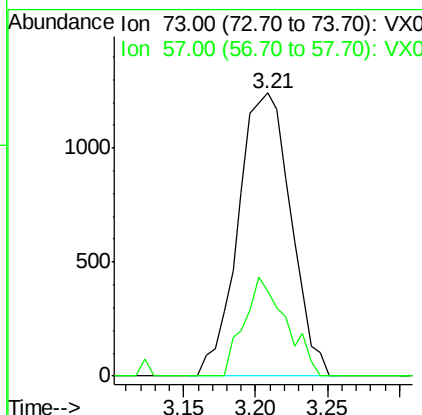
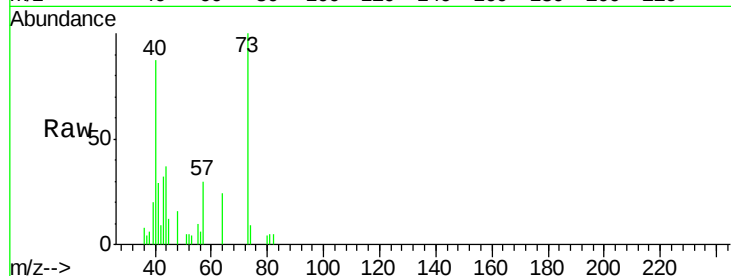


#19

Methyl tert-butyl Ether
 Concen: 0.412 ug/l
 RT: 3.21 min Scan# 337
 Delta R.T. 0.00 min
 Lab File: VX007982.D
 Acq: 11 Mar 2019 20:43

Instrument :
 MSVOA_X
 ClientSampleId :
 RE125D1-20190308

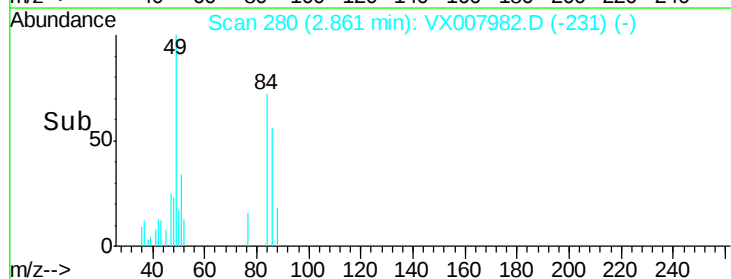
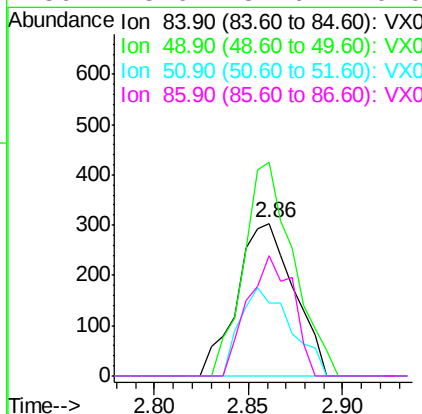
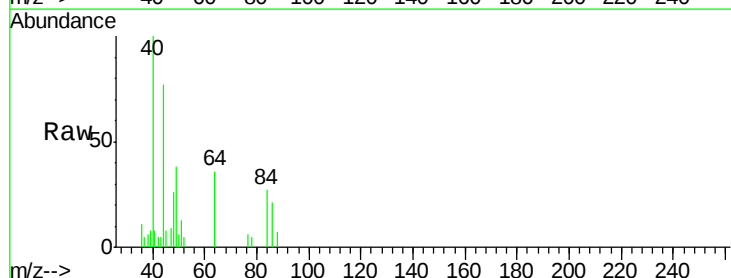
Tot Ion: 73 Resp: 3144
 Ion Ratio Lower Upper
 73 100
 57 29.8 18.2 27.4#

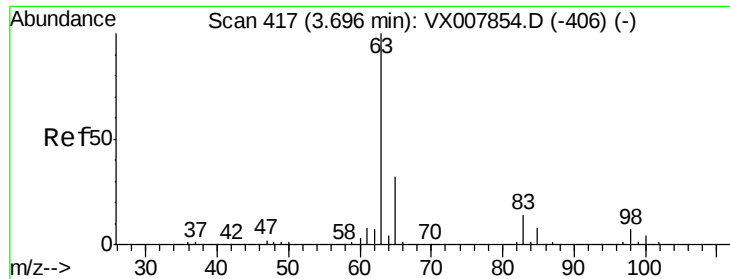


#20

Methylene Chloride
 Concen: 0.250 ug/l
 RT: 2.86 min Scan# 280
 Delta R.T. 0.00 min
 Lab File: VX007982.D
 Acq: 11 Mar 2019 20:43

Tgt Ion: 84 Resp: 634
 Ion Ratio Lower Upper
 84 100
 49 139.8 99.3 148.9
 51 47.7 31.3 46.9#
 86 78.6 52.6 79.0





#24

1,1-Dichloroethane

Concen: 1.354 ug/l

RT: 3.70 min Scan# 417

Delta R.T. 0.00 min

Lab File: VX007982.D

Acq: 11 Mar 2019 20:43

Instrument :

MSVOA_X

ClientSampleId :

RE125D1-20190308

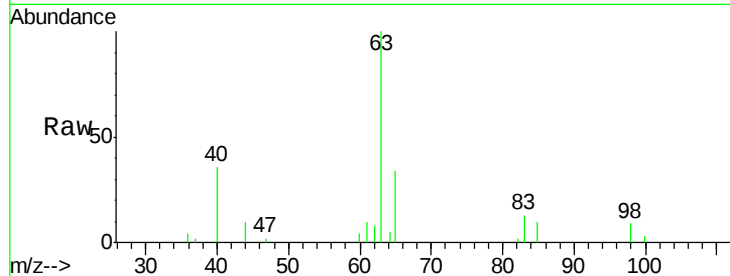
Tot Ion: 63 Resp: 6219

Ion Ratio Lower Upper

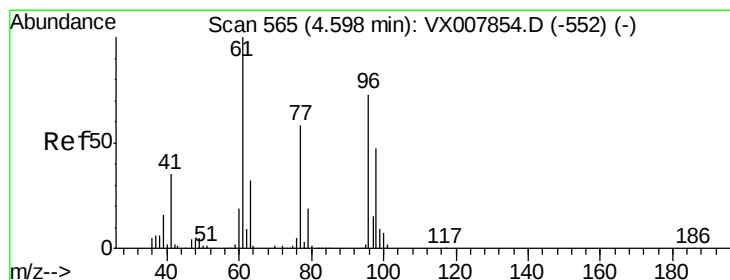
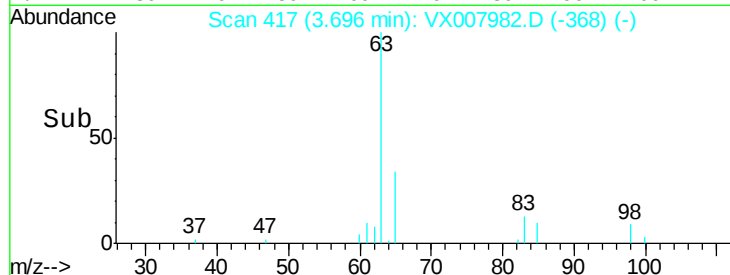
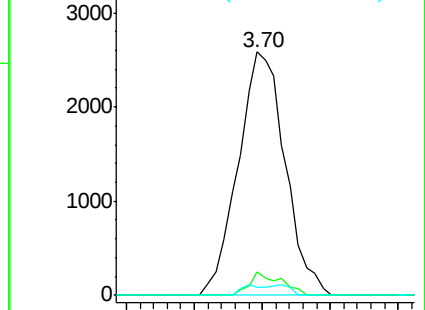
63 100

98 9.4 3.3 9.8

100 3.3 2.3 6.8



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 97.90 (97.60 to 98.60): VX0
Ion 99.90 (99.60 to 100.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 3.759 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.00 min

Lab File: VX007982.D

Acq: 11 Mar 2019 20:43

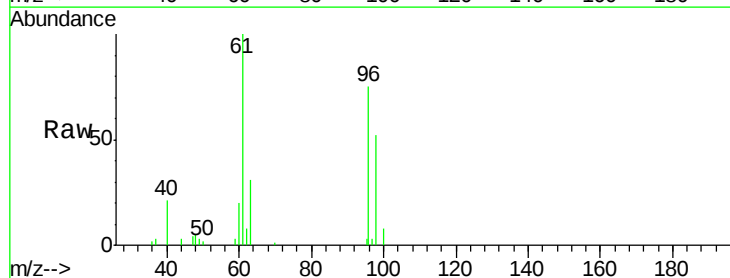
Tgt Ion: 96 Resp: 10489

Ion Ratio Lower Upper

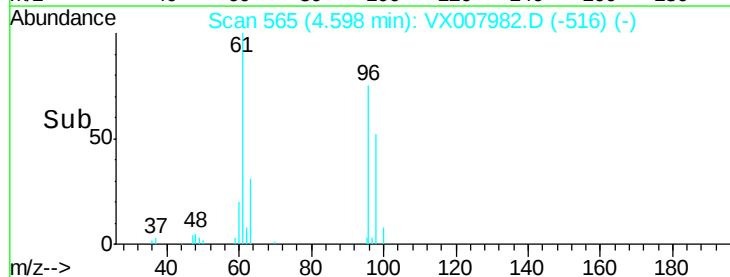
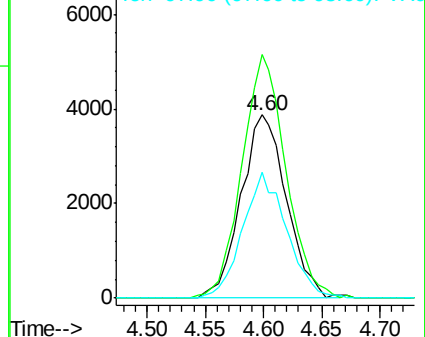
96 100

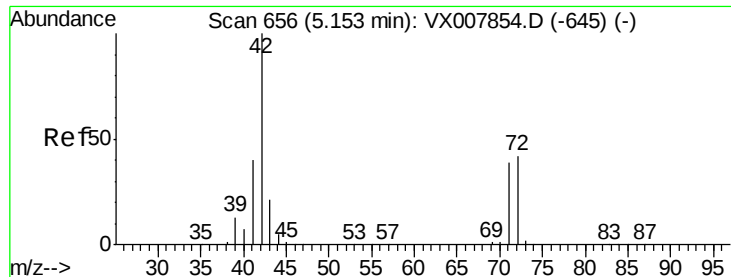
61 128.5 0.0 288.0

98 66.2 0.0 129.0



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

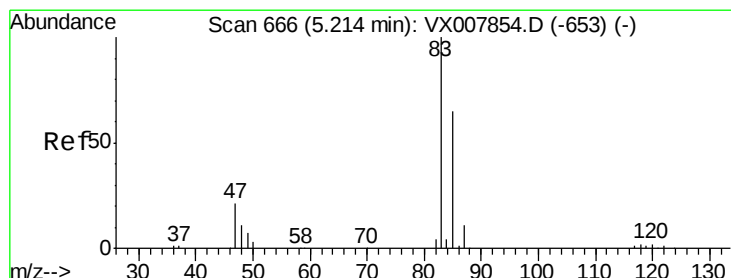
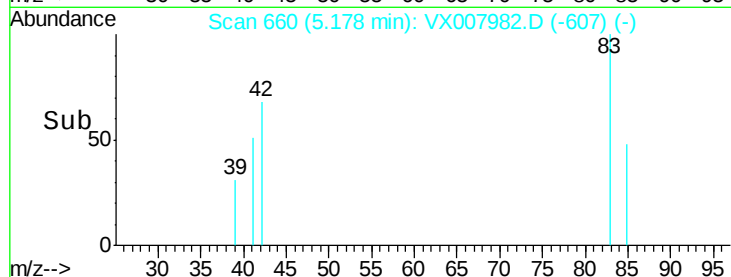
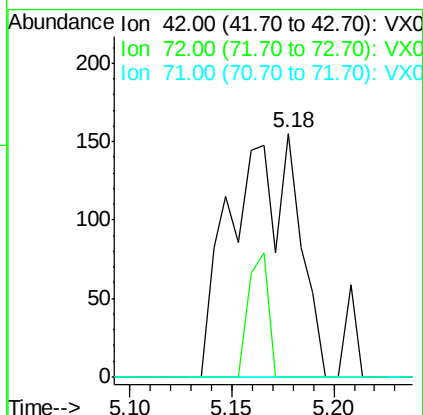
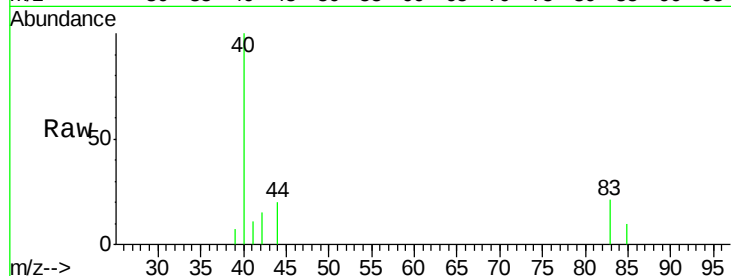




#29
Tetrahydrofuran
Concen: 0.246 ug/l
RT: 5.18 min Scan# 660
Delta R.T. 0.02 min
Lab File: VX007982.D
Acq: 11 Mar 2019 20:43

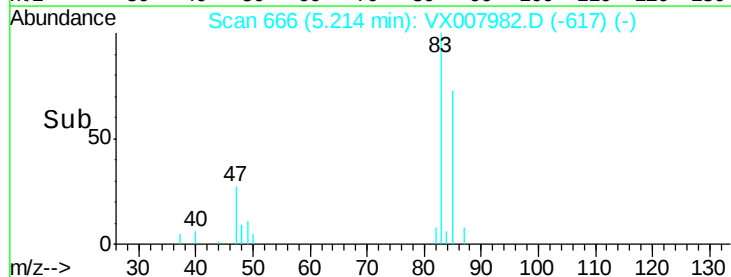
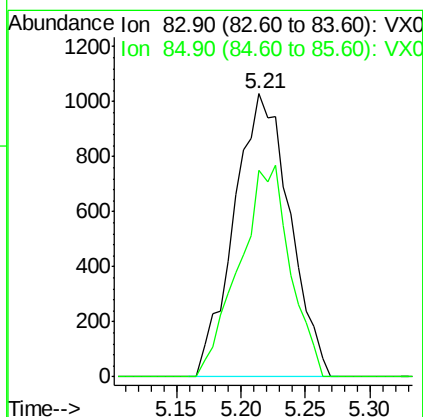
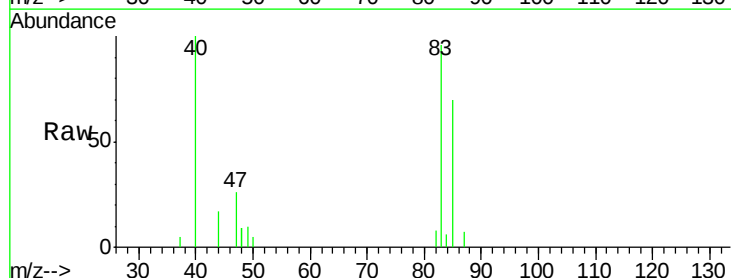
Instrument :
MSVOA_X
ClientSampleId :
RE125D1-20190308

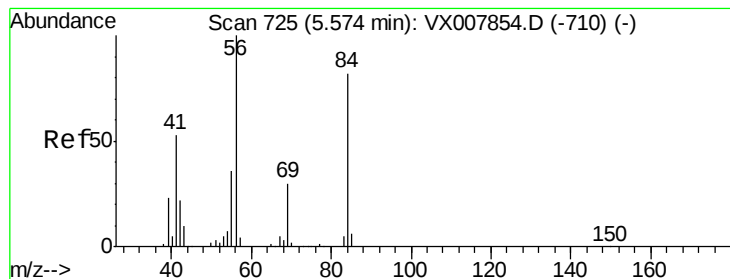
Tot Ion: 42 Resp: 346
Ion Ratio Lower Upper
42 100
72 15.3 33.8 50.6#
71 0.0 31.5 47.3#



#30
Chloroform
Concen: 0.711 ug/l
RT: 5.21 min Scan# 666
Delta R.T. 0.00 min
Lab File: VX007982.D
Acq: 11 Mar 2019 20:43

Tgt Ion: 83 Resp: 3088
Ion Ratio Lower Upper
83 100
85 72.9 51.8 77.6





#31

Cyclohexane

Concen: 0.934 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX007982.D

Acq: 11 Mar 2019 20:43

Instrument :

MSVOA_X

ClientSampleId :

RE125D1-20190308

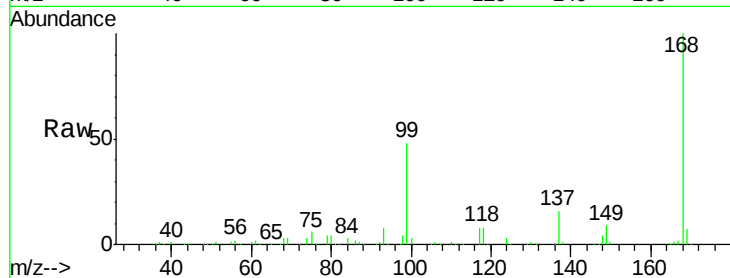
Tot Ion: 56 Resp: 3945

Ion Ratio Lower Upper

56 100

69 199.3 24.0 36.0#

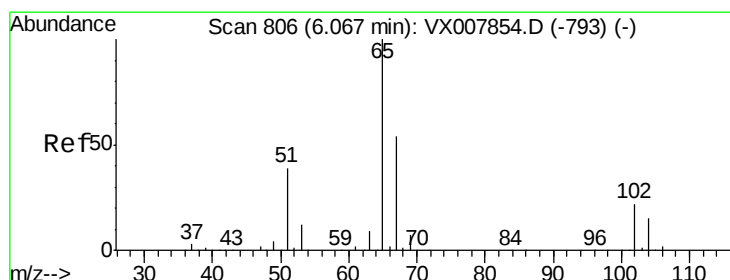
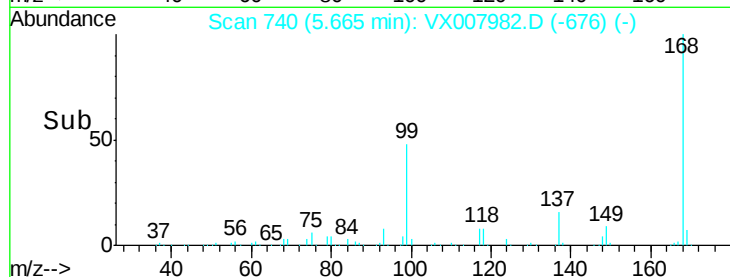
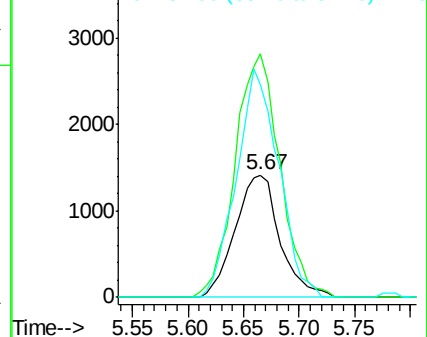
84 174.8 65.3 97.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 51.949 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007982.D

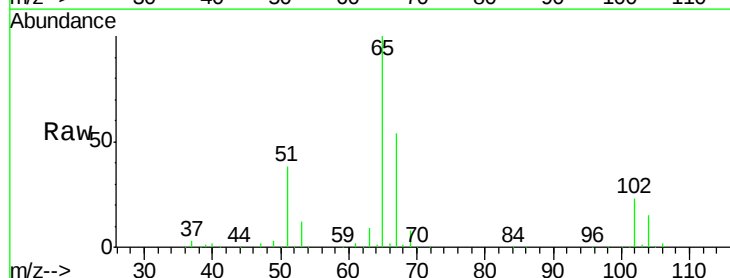
Acq: 11 Mar 2019 20:43

Tgt Ion: 65 Resp: 142746

Ion Ratio Lower Upper

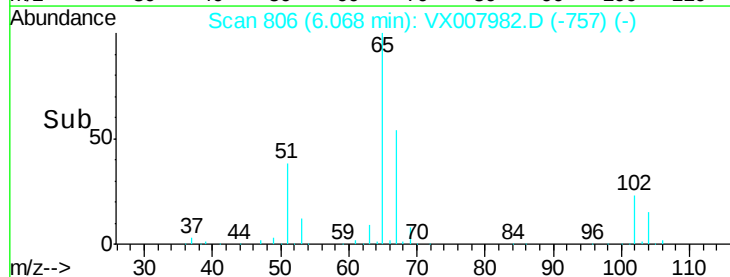
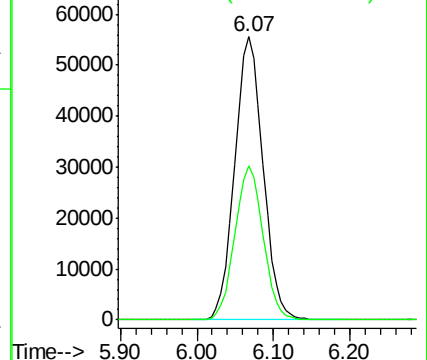
65 100

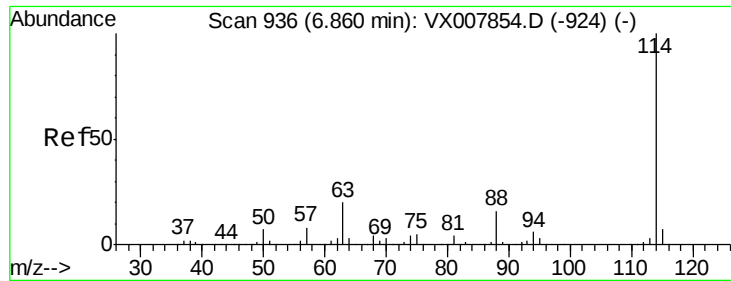
67 54.1 0.0 110.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

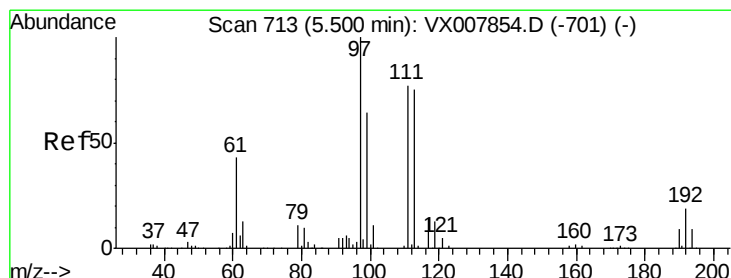
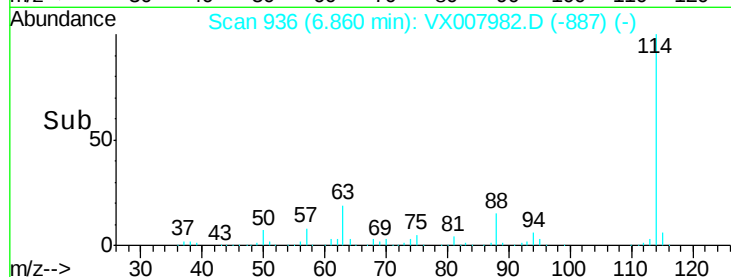
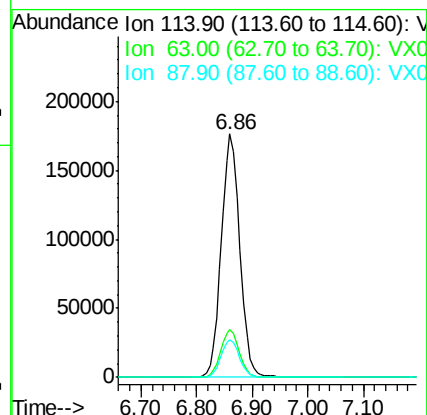
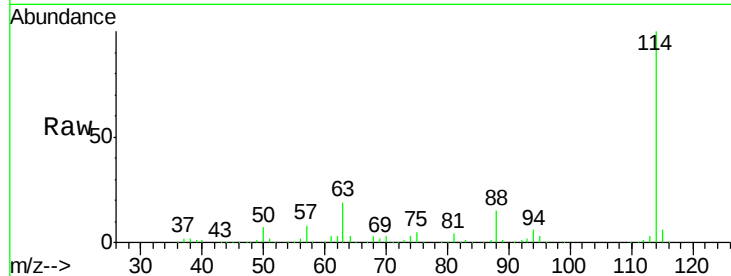




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. 0.00 min
Lab File: VX007982.D
Acq: 11 Mar 2019 20:43

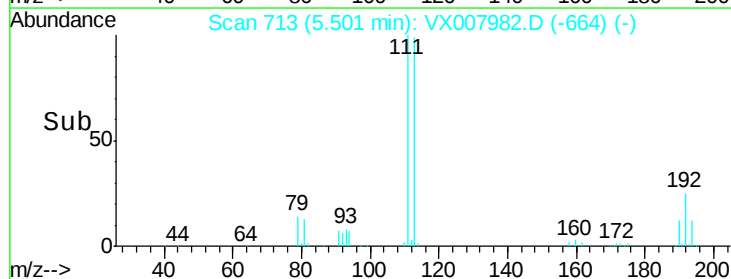
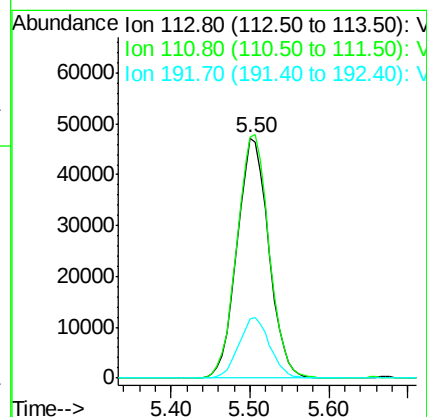
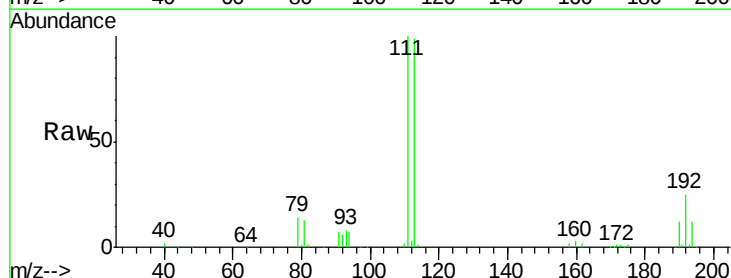
Instrument :
MSVOA_X
ClientSampleId :
RE125D1-20190308

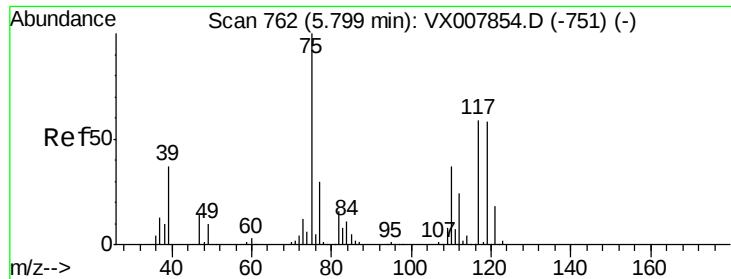
Tot Ion:114 Resp: 407567
Ion Ratio Lower Upper
114 100
63 19.4 0.0 39.8
88 15.4 0.0 31.4



#35
Dibromofluoromethane
Concen: 50.706 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.00 min
Lab File: VX007982.D
Acq: 11 Mar 2019 20:43

Tgt Ion:113 Resp: 132194
Ion Ratio Lower Upper
113 100
111 102.8 81.4 122.0
192 24.8 19.4 29.0

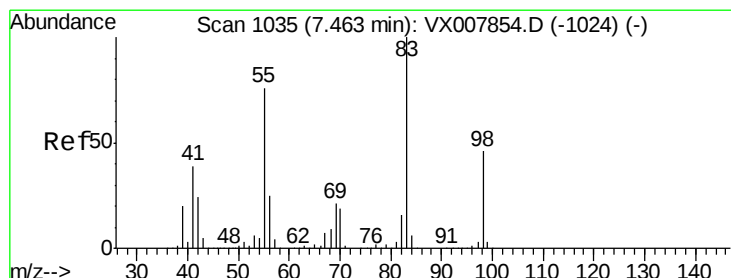
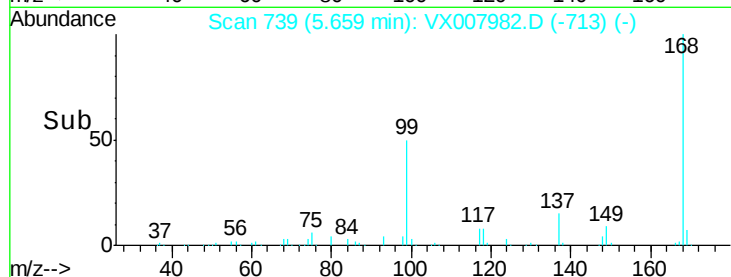
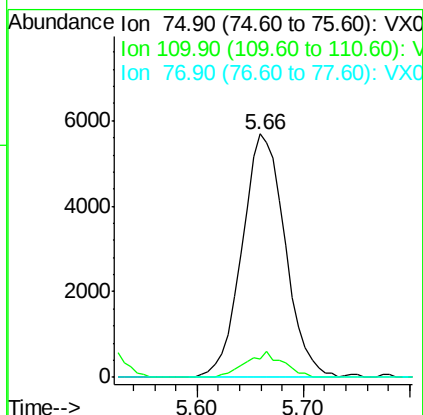
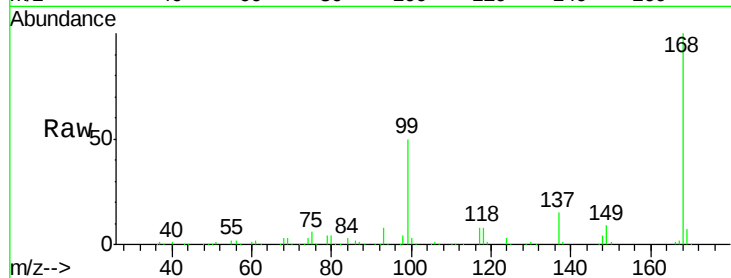




#36
 1,1-Dichloropropene
 Concen: 4.365 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX007982.D
 Acq: 11 Mar 2019 20:43

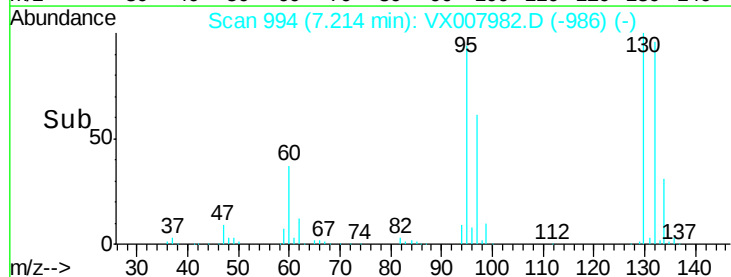
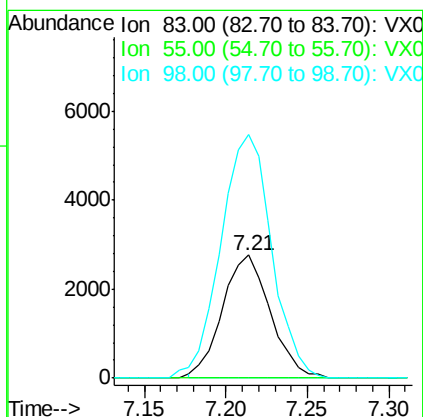
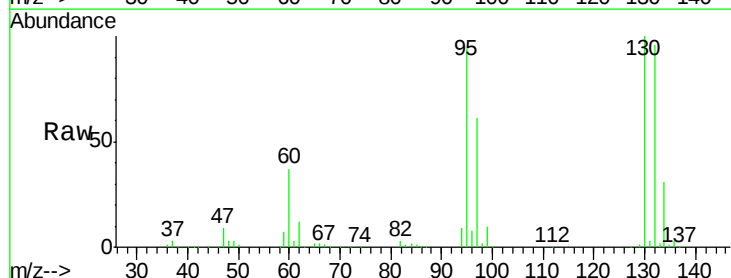
Instrument :
 MSVOA_X
 ClientSampleId :
 RE125D1-20190308

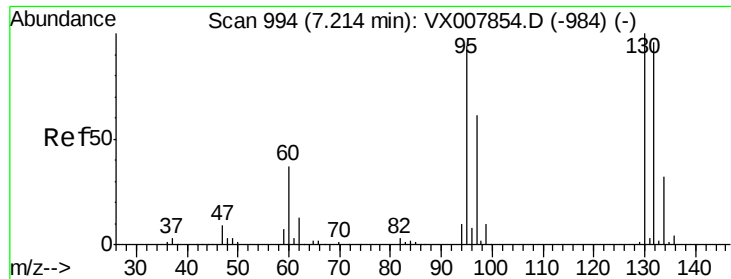
Tot Ion: 75 Resp: 16107
 Ion Ratio Lower Upper
 75 100
 110 9.1 18.4 55.0#
 77 0.0 25.0 37.4#



#39
 Methylcyclohexane
 Concen: 1.265 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. -0.25 min
 Lab File: VX007982.D
 Acq: 11 Mar 2019 20:43

Tgt Ion: 83 Resp: 5659
 Ion Ratio Lower Upper
 83 100
 55 0.0 60.4 90.6#
 98 197.6 36.5 54.7#

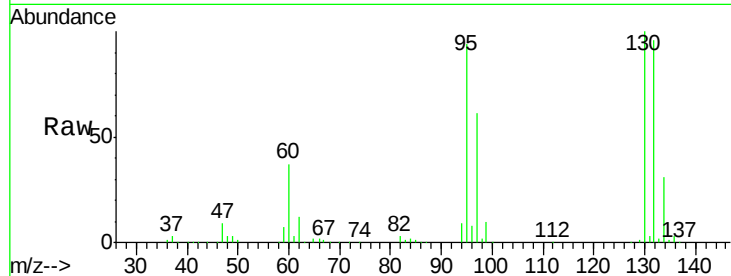




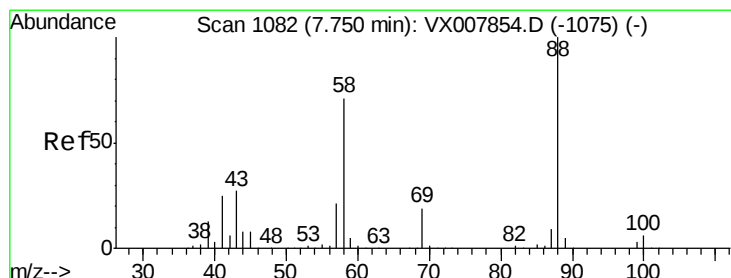
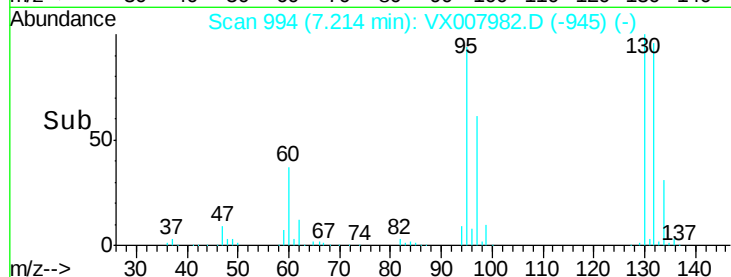
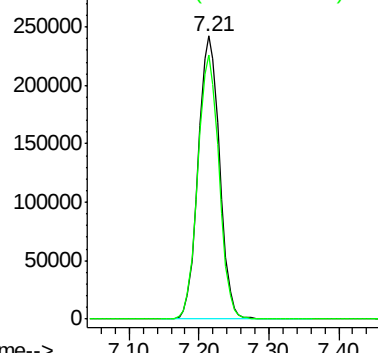
#44
 Trichloroethene
 Concen: 169.648 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. 0.00 min
 Lab File: VX007982.D
 Acq: 11 Mar 2019 20:43

Instrument :
 MSVOA_X
 ClientSampleId :
 RE125D1-20190308

Tot Ion:130 Resp: 513646
 Ion Ratio Lower Upper
 130 100
 95 93.6 0.0 188.0

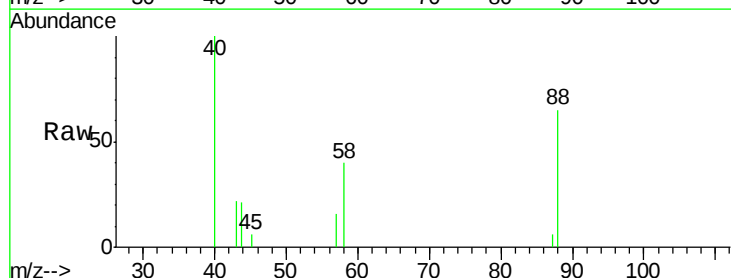


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

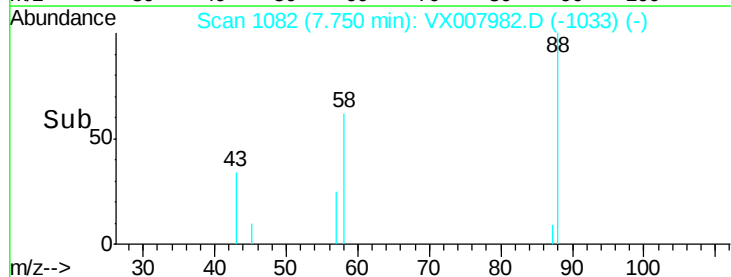
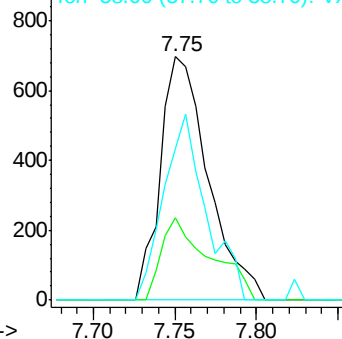


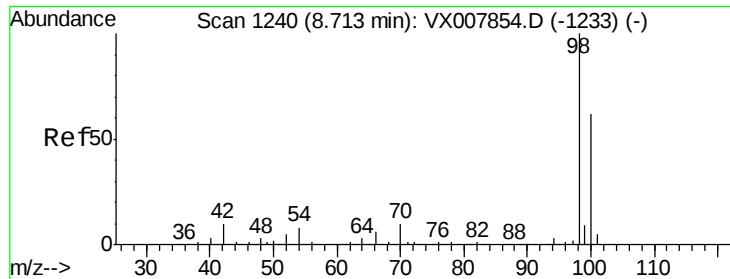
#49
 1,4-Dioxane
 Concen: 20.414 ug/l
 RT: 7.75 min Scan# 1082
 Delta R.T. 0.00 min
 Lab File: VX007982.D
 Acq: 11 Mar 2019 20:43

Tgt Ion: 88 Resp: 1429
 Ion Ratio Lower Upper
 88 100
 43 34.4 25.1 37.7
 58 67.3 57.8 86.6



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

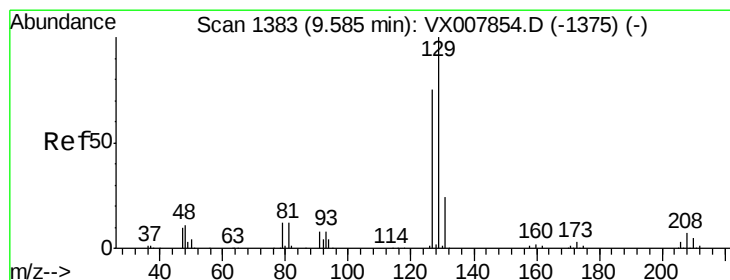
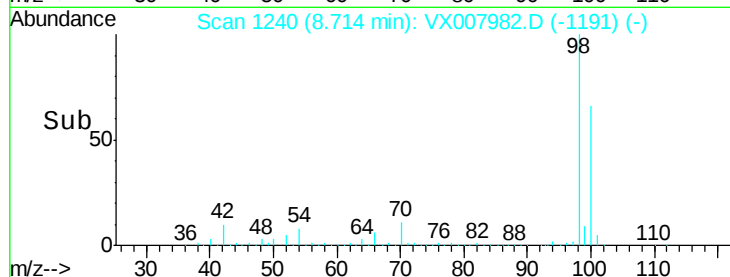
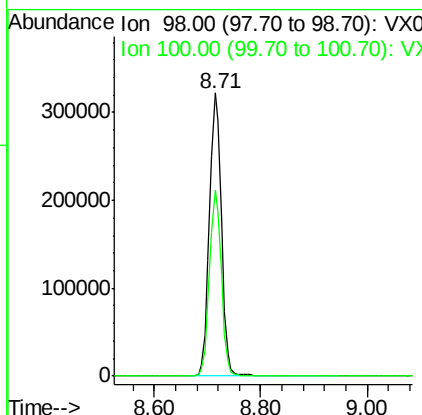
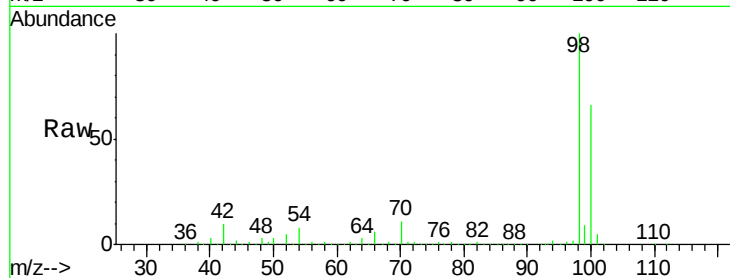




#50
Toluene-d8
Concen: 51.944 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX007982.D
Acq: 11 Mar 2019 20:43

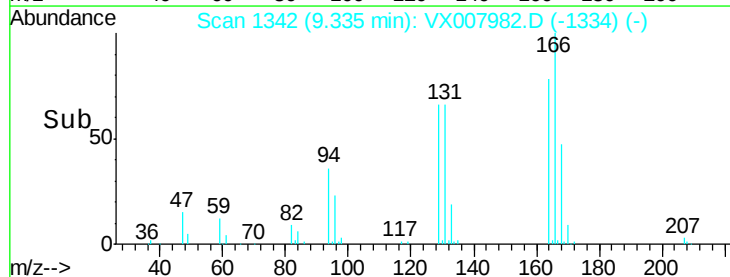
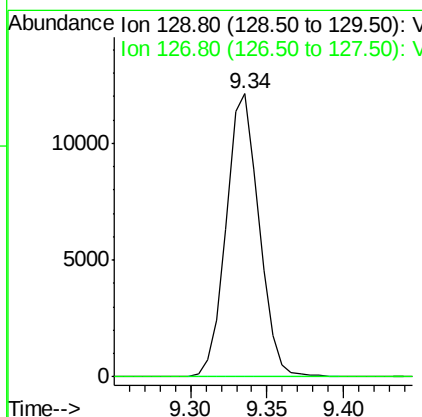
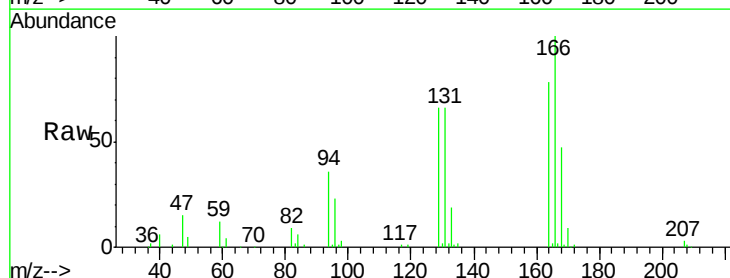
Instrument :
MSVOA_X
ClientSampleId :
RE125D1-20190308

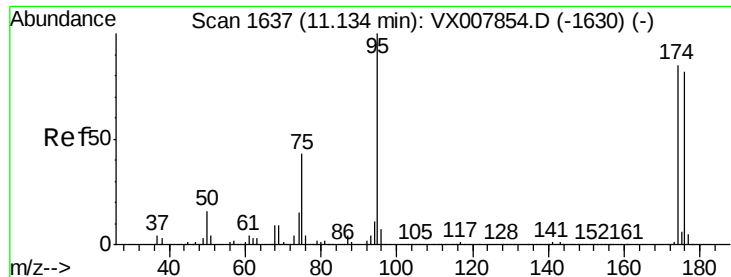
Tot Ion: 98 Resp: 497345
Ion Ratio Lower Upper
98 100
100 64.8 51.7 77.5



#60
Dibromochloromethane
Concen: 6.363 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.25 min
Lab File: VX007982.D
Acq: 11 Mar 2019 20:43

Tgt Ion:129 Resp: 18060
Ion Ratio Lower Upper
129 100
127 0.0 38.3 114.8#





#62

4-Bromofluorobenzene

Concen: 54.565 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007982.D

Acq: 11 Mar 2019 20:43

Instrument :

MSVOA_X

ClientSampleId :

RE125D1-20190308

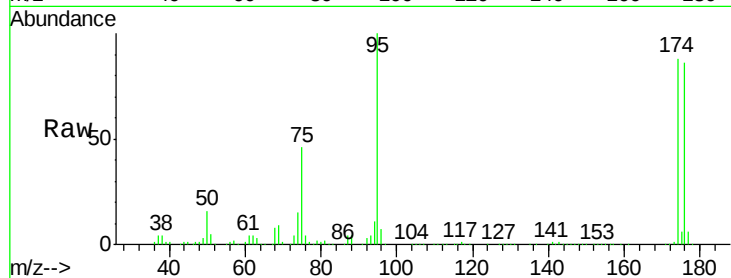
Tot Ion: 95 Resp: 183167

Ion Ratio Lower Upper

95 100

174 93.2 0.0 182.8

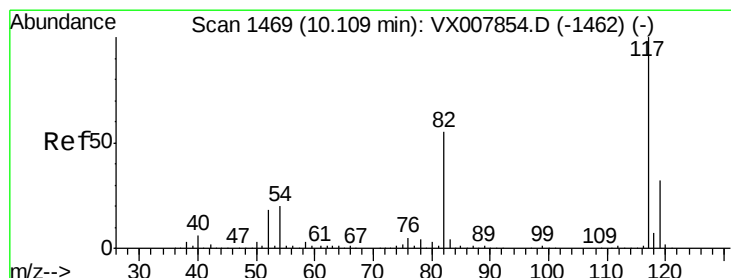
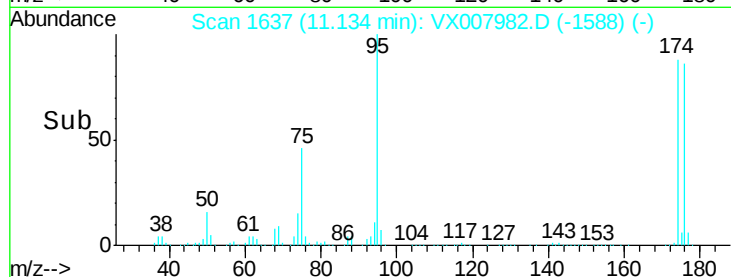
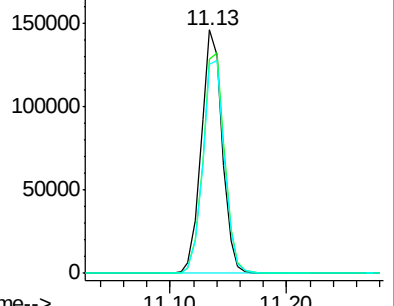
176 90.2 0.0 178.0



Abundance Ion 94.90 (94.60 to 95.60): VX007854.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX007854.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX007854.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX007982.D

Acq: 11 Mar 2019 20:43

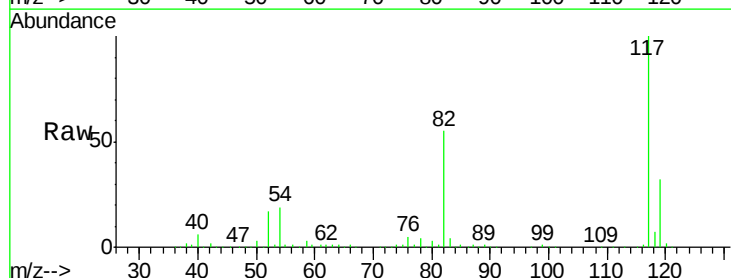
Tgt Ion: 117 Resp: 388851

Ion Ratio Lower Upper

117 100

82 55.5 44.3 66.5

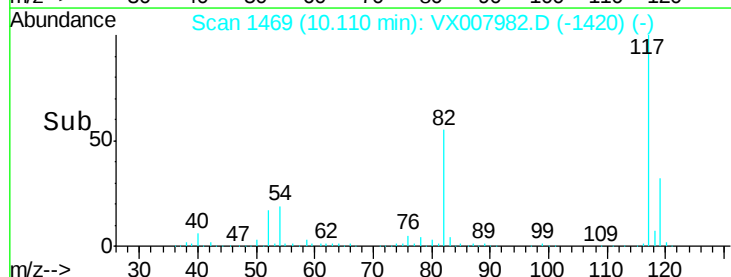
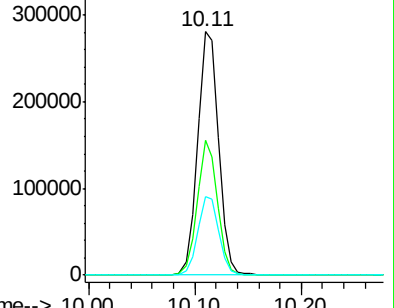
119 32.3 25.3 37.9

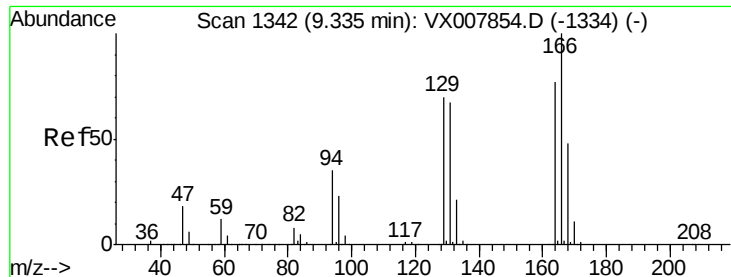


Abundance Ion 116.90 (116.60 to 117.60): VX007854.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX007854.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX007854.D (-1462) (-)

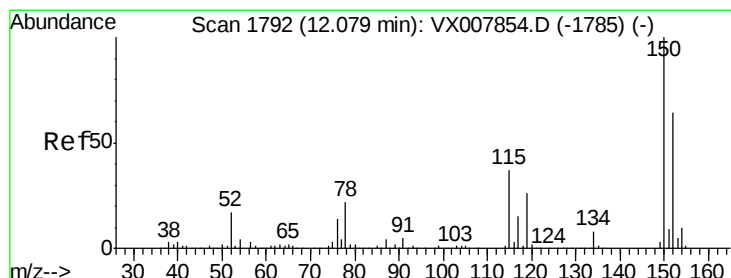
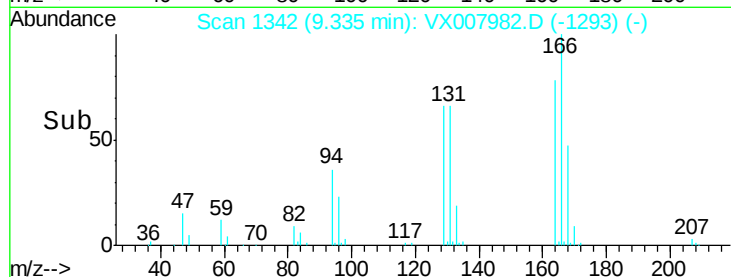
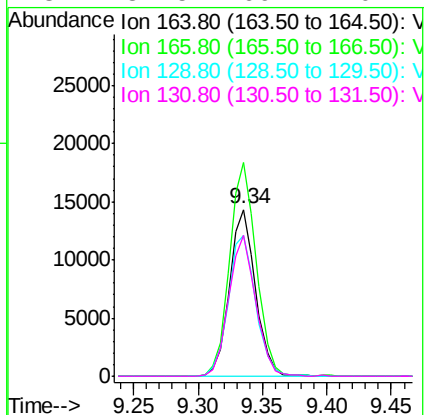
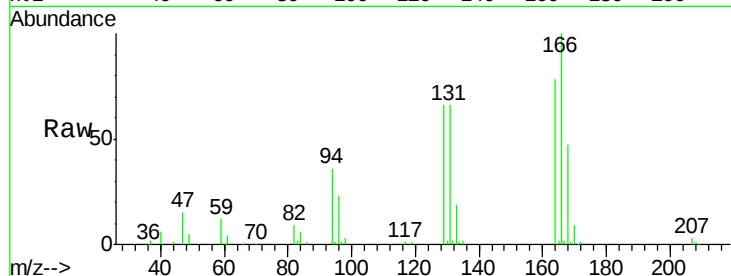




#64
Tetrachloroethene
Concen: 6.289 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX007982.D
Acq: 11 Mar 2019 20:43

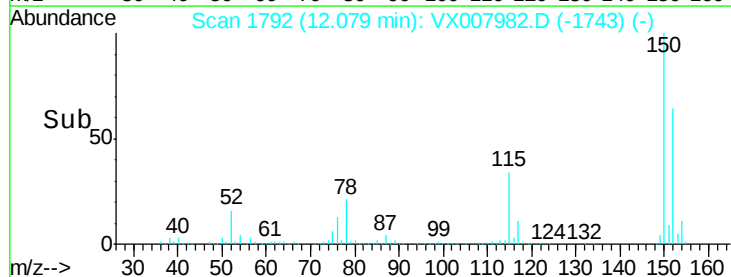
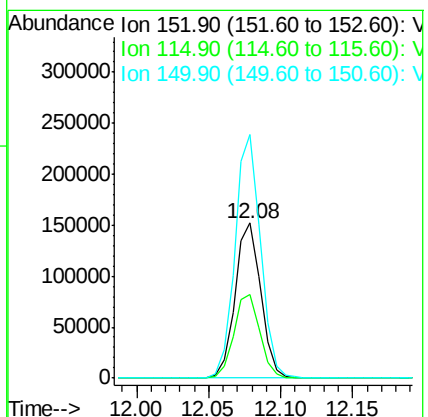
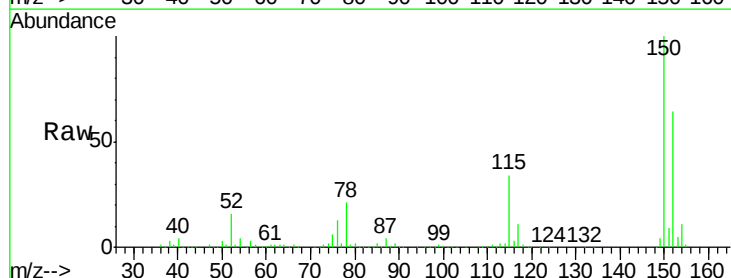
Instrument :
MSVOA_X
ClientSampleId :
RE125D1-20190308

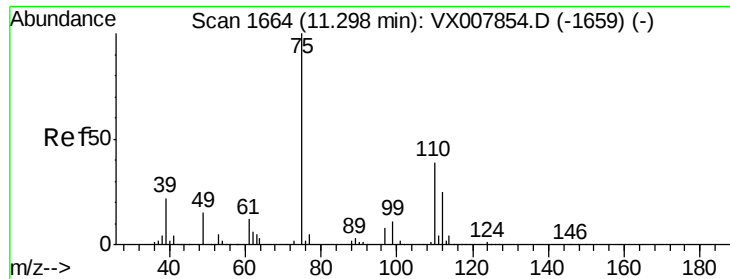
Tot Ion:164 Resp: 20267
Ion Ratio Lower Upper
164 100
166 127.8 103.4 155.0
129 84.3 72.2 108.4
131 84.5 69.4 104.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX007982.D
Acq: 11 Mar 2019 20:43

Tgt Ion:152 Resp: 189926
Ion Ratio Lower Upper
152 100
115 54.8 38.6 115.7
150 155.6 0.0 348.4

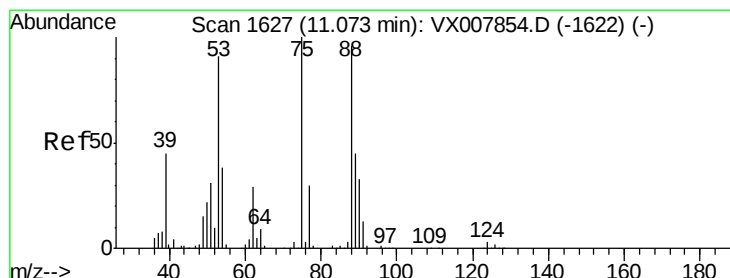
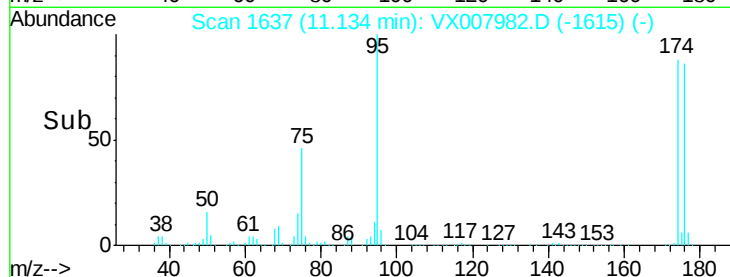
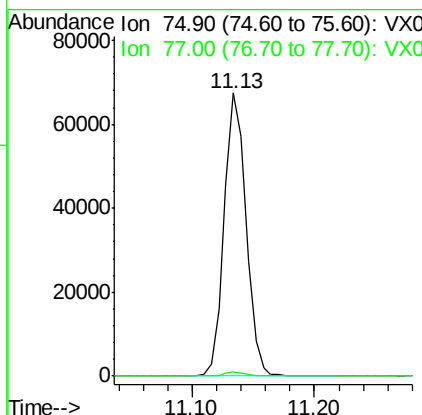
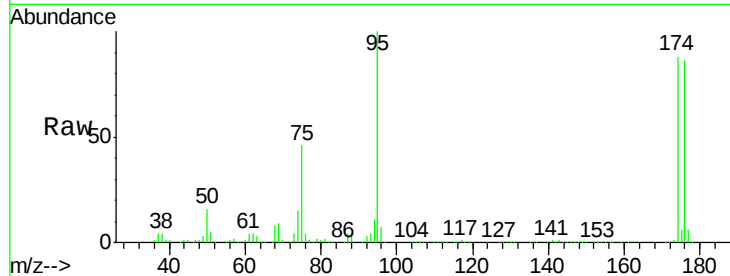




#76
 1,2,3-Trichloropropane
 Concen: 21.021 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX007982.D
 Acq: 11 Mar 2019 20:43

Instrument :
 MSVOA_X
 ClientSampleId :
 RE125D1-20190308

Tot Ion: 75 Resp: 83779
 Ion Ratio Lower Upper
 75 100
 77 1.3 18.9 56.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.194 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX007982.D
 Acq: 11 Mar 2019 20:43

Tgt Ion: 75 Resp: 83779
 Ion Ratio Lower Upper
 75 100
 53 0.0 76.1 114.1#
 89 0.0 36.3 54.5#

