

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031219\
 Data File : VX008019.D
 Acq On : 12 Mar 2019 16:34
 Operator : JC/SP
 Sample : K1841-07DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE125D2-20190308DL

Quant Time: Mar 13 05:20:44 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	5.66	168	232243	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	363868	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	339393	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	175958	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	128052	52.27	ug/l	0.00
Spiked Amount			Recovery	=	104.54%	
35) Dibromofluoromethane	5.50	113	117928	50.67	ug/l	0.00
Spiked Amount			Recovery	=	101.34%	
50) Toluene-d8	8.71	98	440305	51.51	ug/l	0.00
Spiked Amount			Recovery	=	103.02%	
62) 4-Bromofluorobenzene	11.13	95	161901	54.02	ug/l	0.00
Spiked Amount			Recovery	=	108.04%	

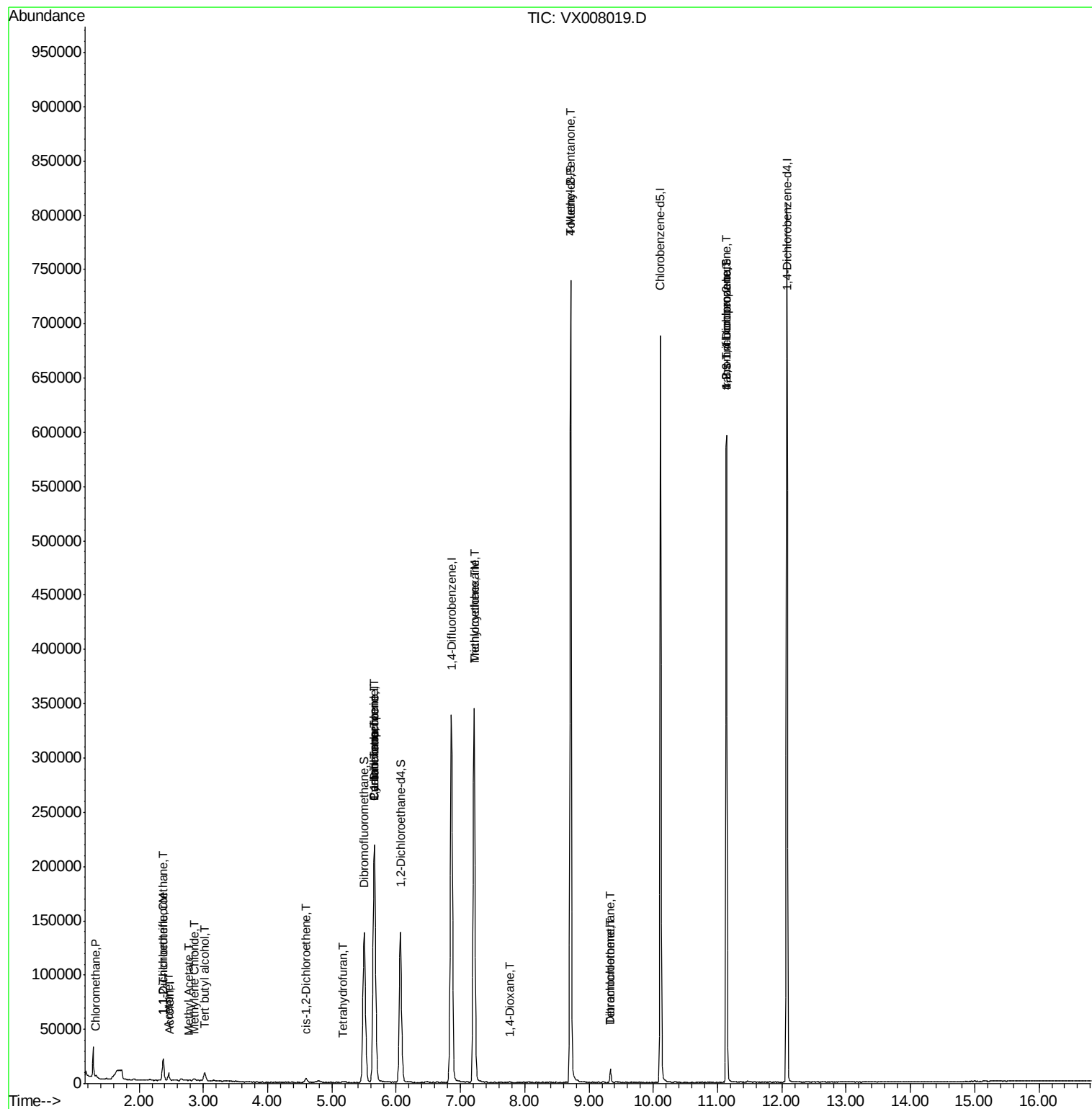
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	564	0.221	ug/l #	88
5) Bromomethane	1.64	94	520	Below Cal	#	78
9) 1,1,2-Trichlorotrifluoroet	2.37	101	6006	2.930	ug/l	96
11) Tert butyl alcohol	3.02	59	4778	8.721	ug/l #	74
12) 1,1-Dichloroethene	2.37	96	1978	1.001	ug/l	95
13) Acrolein	2.48	56	39	1.666	ug/l	87
16) Acetone	2.46	43	6898	4.864	ug/l	99
17) Carbon Disulfide	2.56	76	569	Below Cal	#	63
18) Methyl Acetate	2.78	43	890	0.295	ug/l #	86
20) Methylene Chloride	2.85	84	852	0.378	ug/l	87
27) cis-1,2-Dichloroethene	4.59	96	2154	0.866	ug/l	93
29) Tetrahydrofuran	5.18	42	333	0.266	ug/l #	57
31) Cyclohexane	5.67	56	3554	0.944	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	14219	4.316	ug/l #	48
38) Carbon Tetrachloride	5.66	117	19587	6.262	ug/l #	18
39) Methylcyclohexane	7.21	83	1621	0.406	ug/l #	1
44) Trichloroethene	7.21	130	143985	53.267	ug/l	98
49) 1,4-Dioxane	7.77	88	244	3.904	ug/l	87
51) 4-Methyl-2-Pentanone	8.71	43	1737	0.467	ug/l #	1
60) Dibromochloromethane	9.34	129	2293	0.905	ug/l #	11
64) Tetrachloroethene	9.34	164	2472	0.879	ug/l	88
76) 1,2,3-Trichloropropane	11.13	75	74672	20.224	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	74672	64.644	ug/l #	11

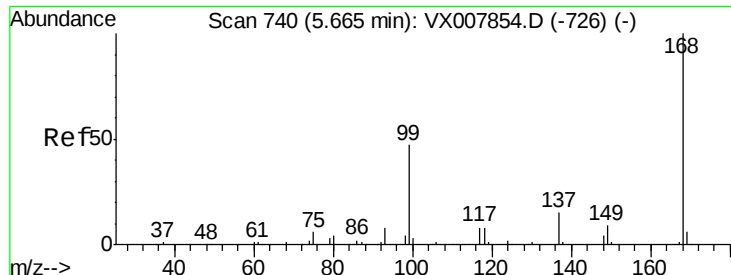
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Mar 07 07:33:26 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX008019.D

Acq: 12 Mar 2019 16:34

Instrument :

MSVOA_X

ClientSampleId :

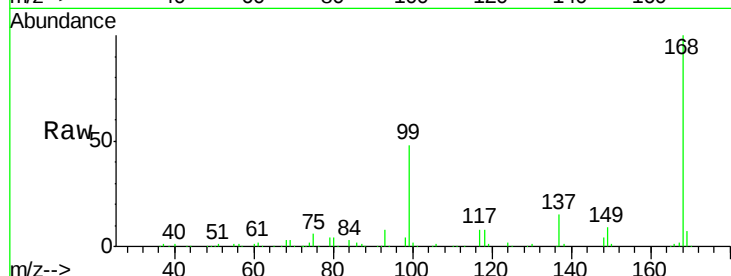
RE125D2-20190308DL

Tot Ion:168 Resp: 232243

Ion Ratio Lower Upper

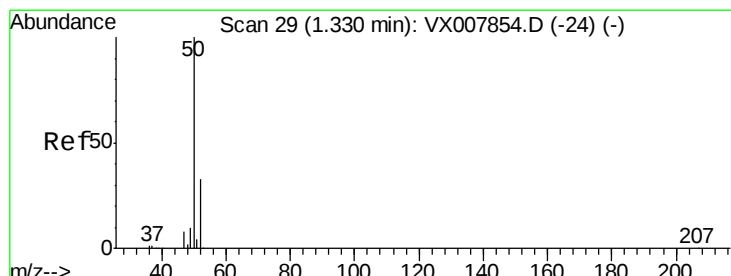
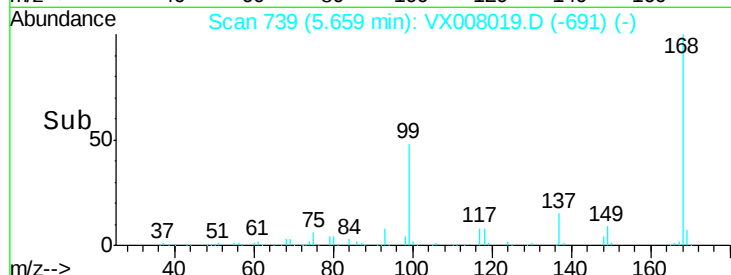
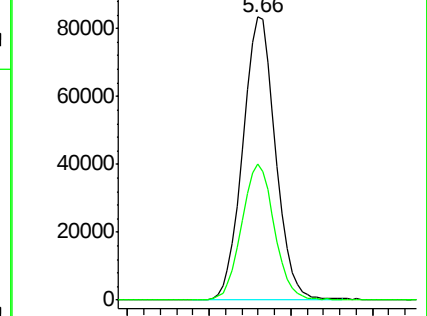
168 100

99 47.9 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.221 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX008019.D

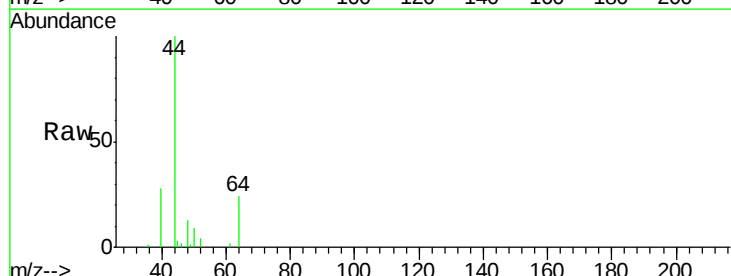
Acq: 12 Mar 2019 16:34

Tgt Ion: 50 Resp: 564

Ion Ratio Lower Upper

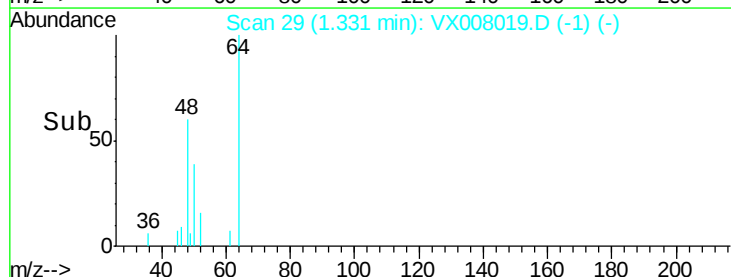
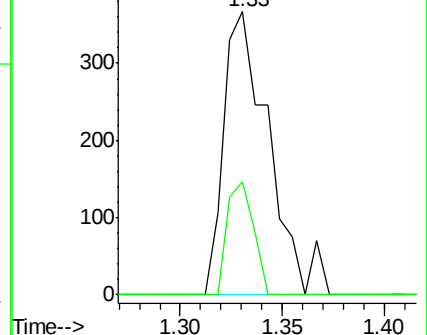
50 100

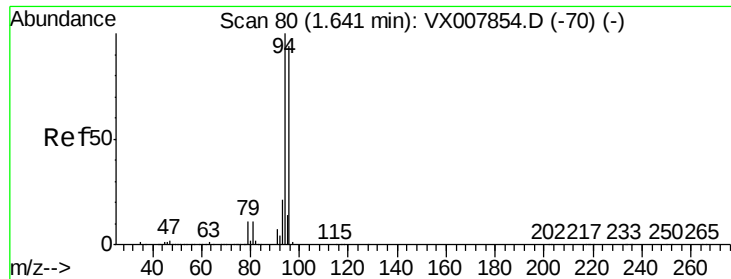
52 40.1 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX008019.D

Acq: 12 Mar 2019 16:34

Instrument :

MSVOA_X

ClientSampleId :

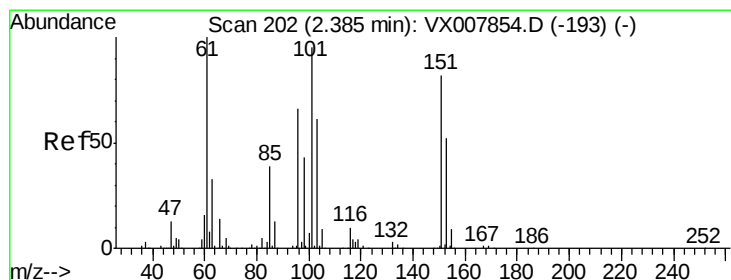
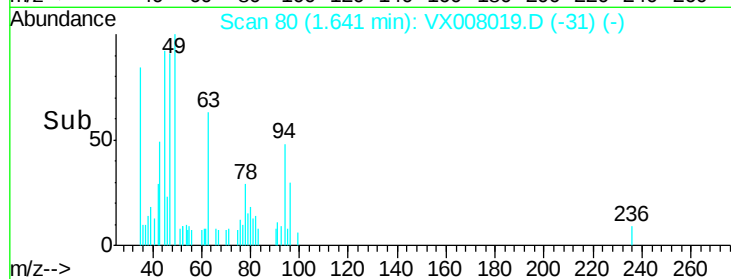
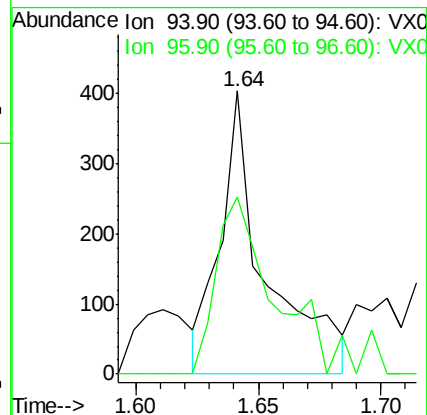
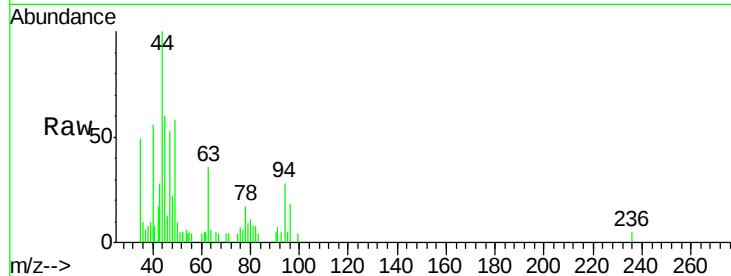
RE125D2-20190308DL

Tot Ion: 94 Resp: 520

Ion Ratio Lower Upper

94 100

96 72.7 75.5 113.3#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.930 ug/l

RT: 2.37 min Scan# 200

Delta R.T. -0.01 min

Lab File: VX008019.D

Acq: 12 Mar 2019 16:34

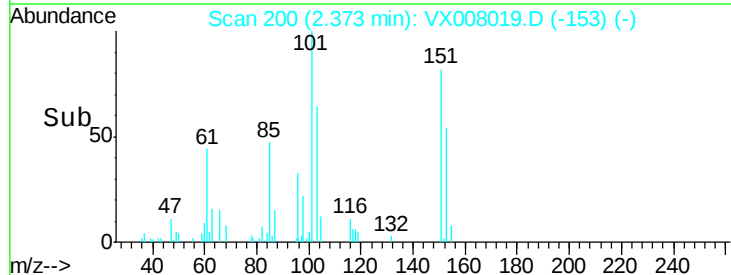
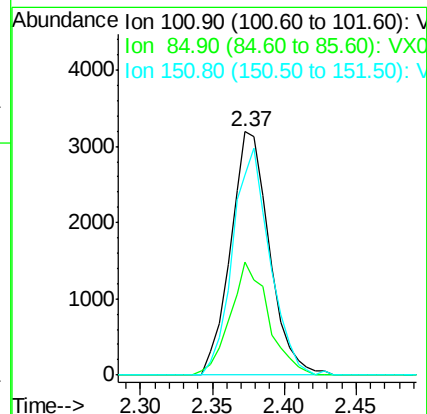
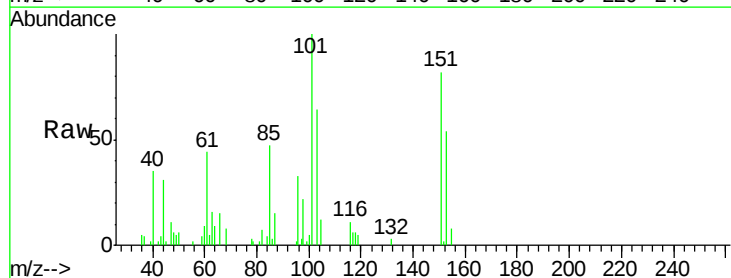
Tgt Ion:101 Resp: 6006

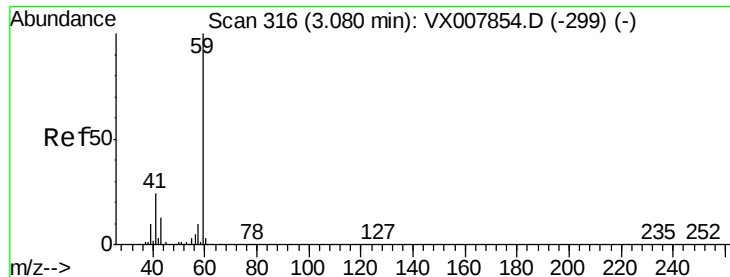
Ion Ratio Lower Upper

101 100

85 45.7 33.8 50.6

151 89.3 69.1 103.7



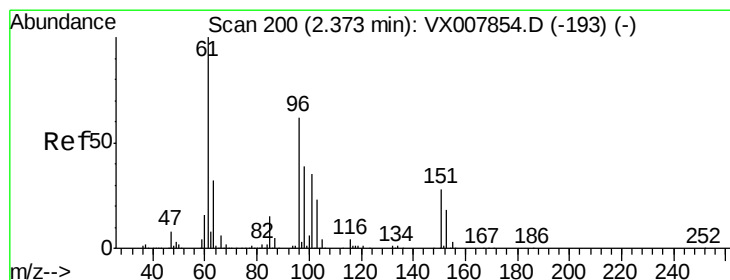
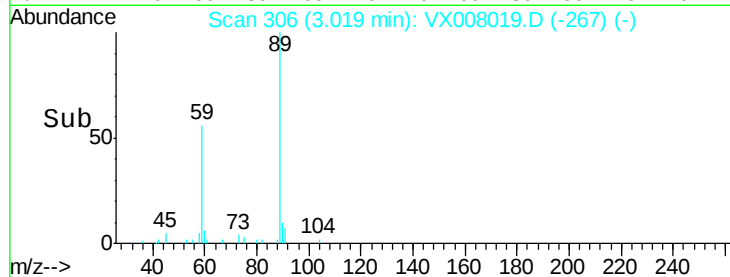
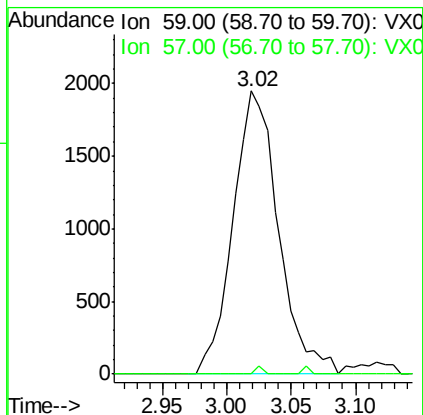
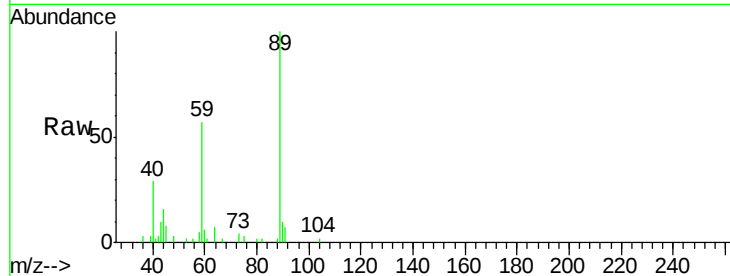


#11

Tert butyl alcohol
 Concen: 8.721 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.06 min
 Lab File: VX008019.D
 Acq: 12 Mar 2019 16:34

Instrument :
 MSVOA_X
 ClientSampleId :
 RE125D2-20190308DL

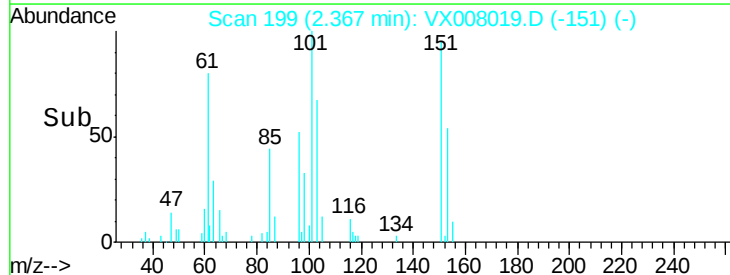
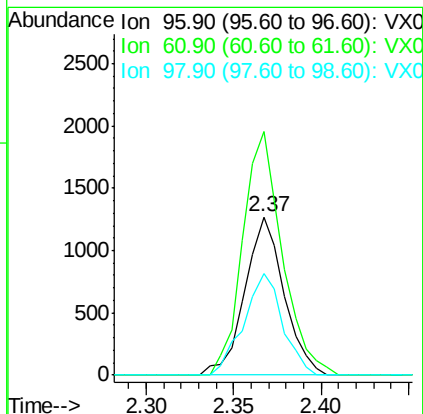
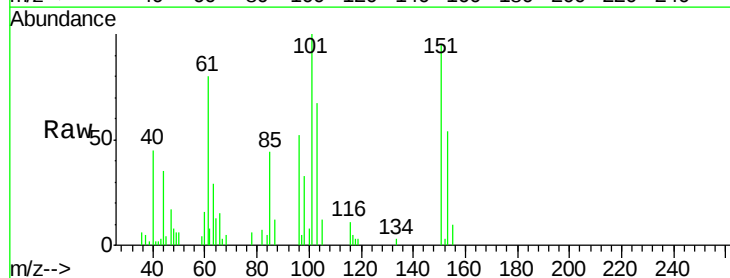
Tot Ion: 59 Resp: 4778
 Ion Ratio Lower Upper
 59 100
 57 0.5 8.2 12.2#

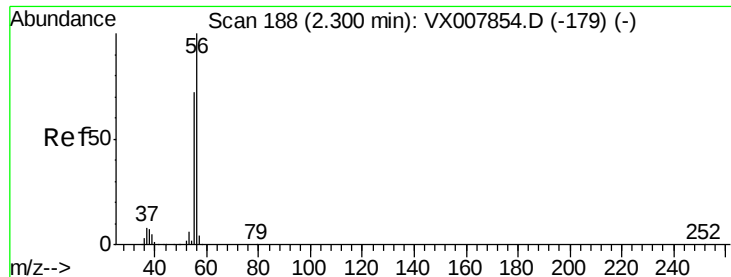


#12

1,1-Dichloroethene
 Concen: 1.001 ug/l
 RT: 2.37 min Scan# 199
 Delta R.T. -0.01 min
 Lab File: VX008019.D
 Acq: 12 Mar 2019 16:34

Tgt Ion: 96 Resp: 1978
 Ion Ratio Lower Upper
 96 100
 61 153.7 129.8 194.6
 98 63.8 51.0 76.6





#13

Acrolein

Concen: 1.666 ug/l

RT: 2.48 min Scan# 218

Delta R.T. 0.18 min

Lab File: VX008019.D

Acq: 12 Mar 2019 16:34

Instrument :

MSVOA_X

ClientSampleId :

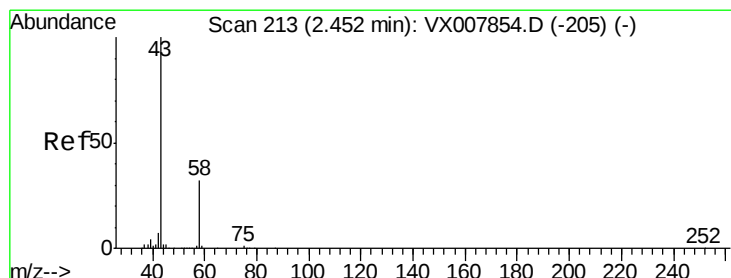
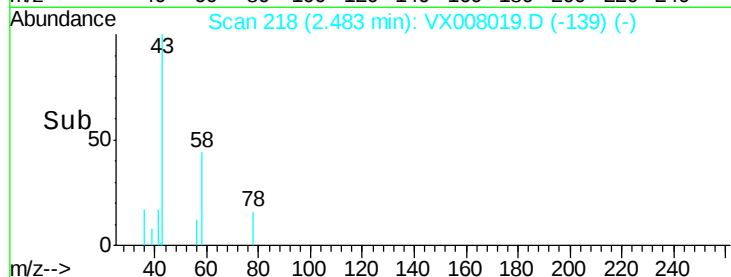
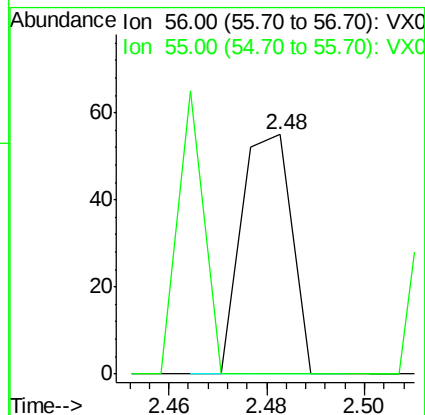
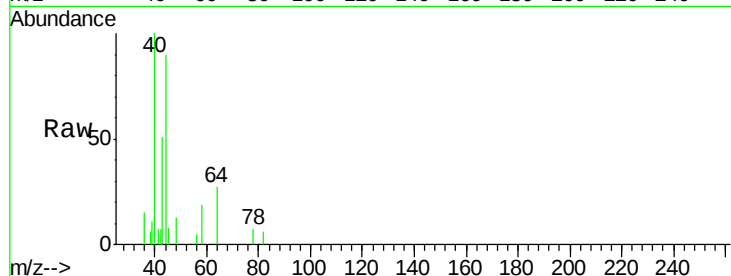
RE125D2-20190308DL

Tot Ion: 56 Resp: 39

Ion Ratio Lower Upper

56 100

55 61.5 57.8 86.6



#16

Acetone

Concen: 4.864 ug/l

RT: 2.46 min Scan# 214

Delta R.T. 0.01 min

Lab File: VX008019.D

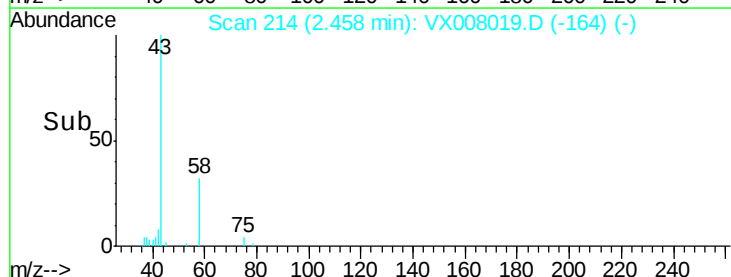
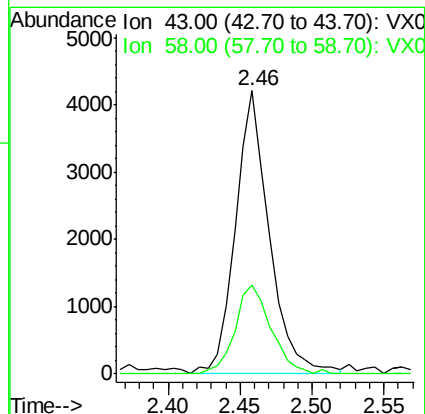
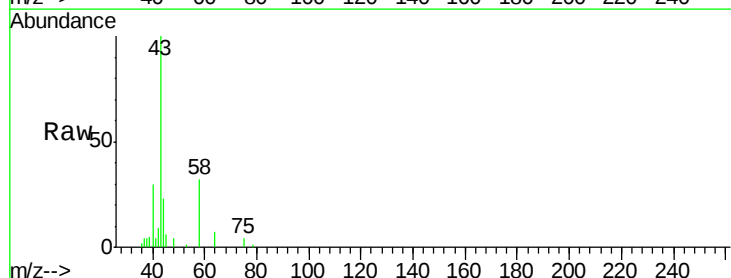
Acq: 12 Mar 2019 16:34

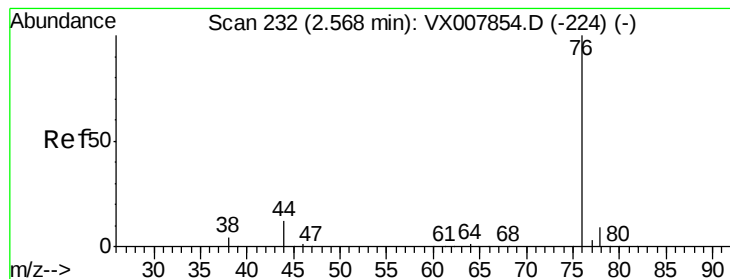
Tgt Ion: 43 Resp: 6898

Ion Ratio Lower Upper

43 100

58 31.6 25.5 38.3





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.56 min Scan# 230

Delta R.T. -0.01 min

Lab File: VX008019.D

Acq: 12 Mar 2019 16:34

Instrument :

MSVOA_X

ClientSampleId :

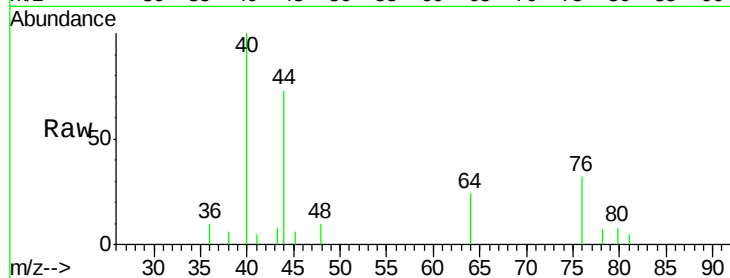
RE125D2-20190308DL

Tot Ion: 76 Resp: 569

Ion Ratio Lower Upper

76 100

78 22.5 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

400

300

200

100

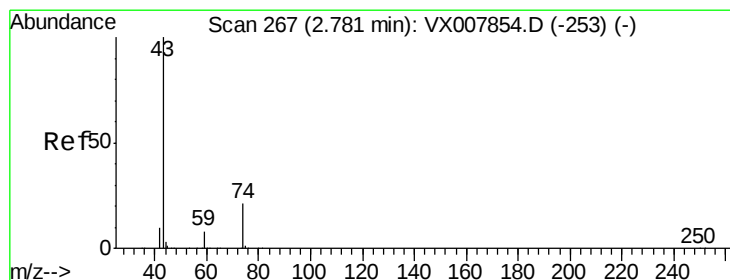
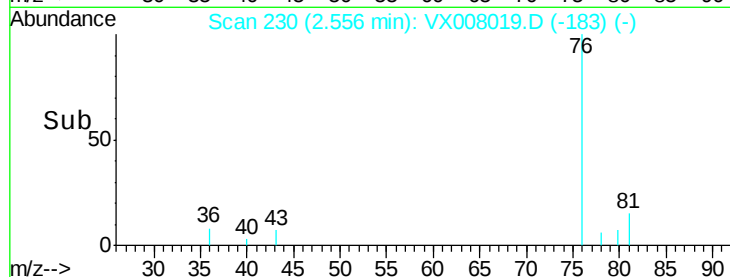
0

2.50

2.55

2.60

Time-->



#18

Methyl Acetate

Concen: 0.295 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX008019.D

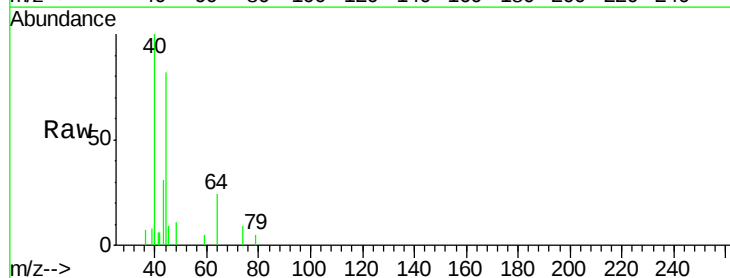
Acq: 12 Mar 2019 16:34

Tgt Ion: 43 Resp: 890

Ion Ratio Lower Upper

43 100

74 15.6 17.8 26.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

400

300

200

100

0

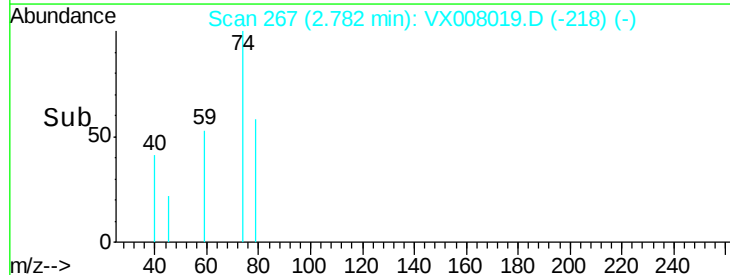
2.70

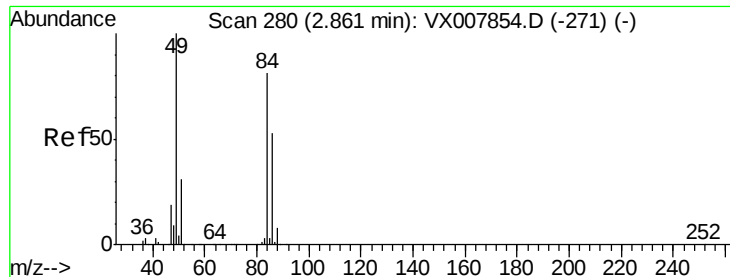
2.75

2.80

2.85

Time-->

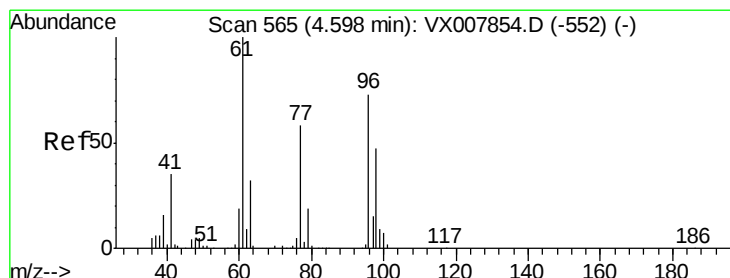
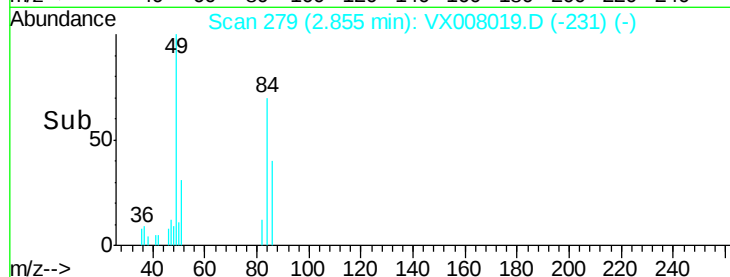
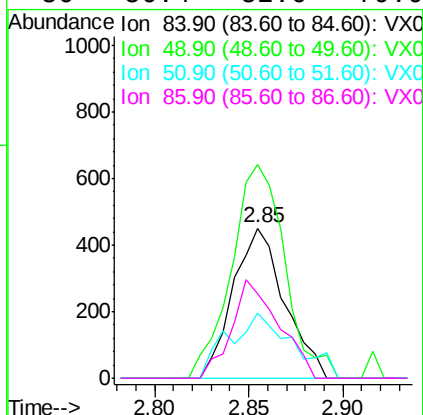
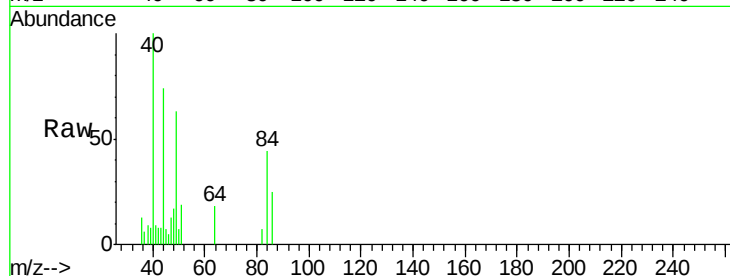




#20
Methvlene Chloride
Concen: 0.378 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX008019.D
Acq: 12 Mar 2019 16:34

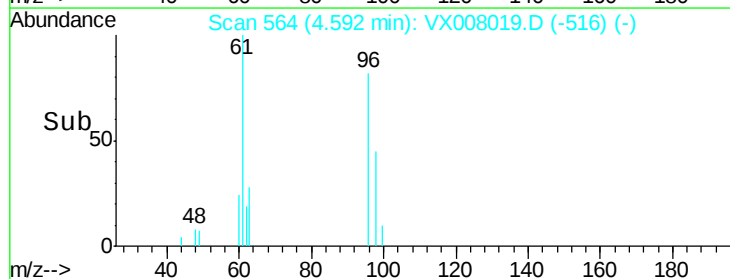
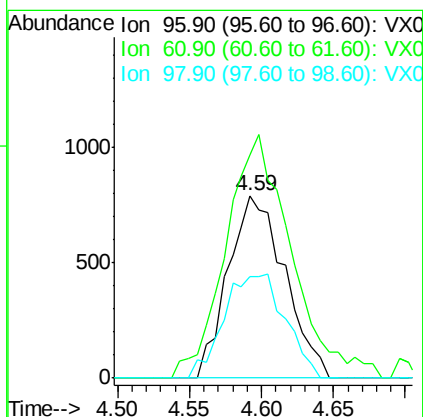
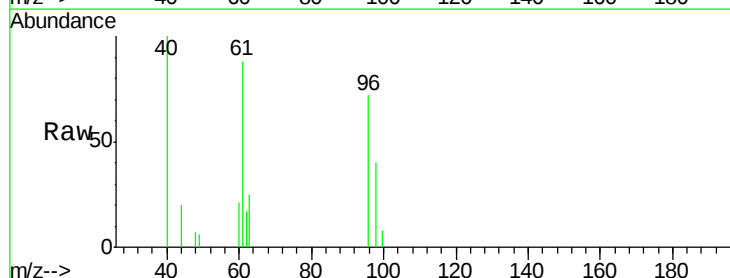
Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20190308DL

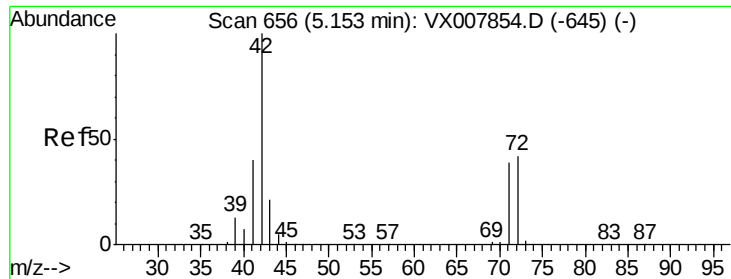
Tot Ion:	84	Resp:	852
Ion	Ratio	Lower	Upper
84	100		
49	142.0	99.3	148.9
51	43.4	31.3	46.9
86	56.4	52.6	79.0



#27
cis-1,2-Dichloroethene
Concen: 0.866 ug/l
RT: 4.59 min Scan# 564
Delta R.T. -0.01 min
Lab File: VX008019.D
Acq: 12 Mar 2019 16:34

Tgt Ion:	96	Resp:	2154
Ion	Ratio	Lower	Upper
96	100		
61	155.1	0.0	288.0
98	61.5	0.0	129.0





#29

Tetrahydrofuran

Concen: 0.266 ug/l

RT: 5.18 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX008019.D

Acq: 12 Mar 2019 16:34

Instrument :

MSVOA_X

ClientSampleId :

RE125D2-20190308DL

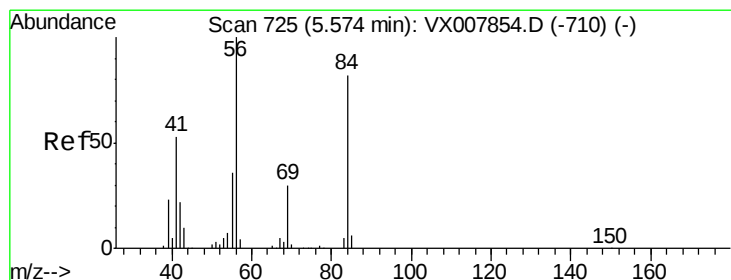
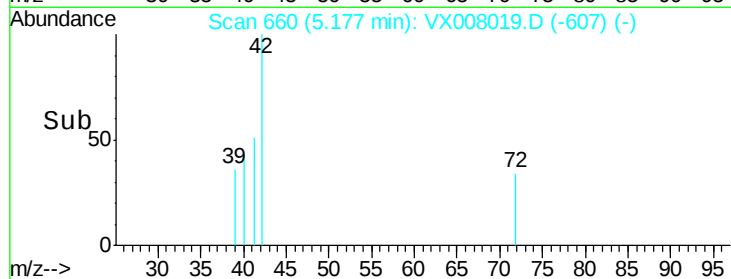
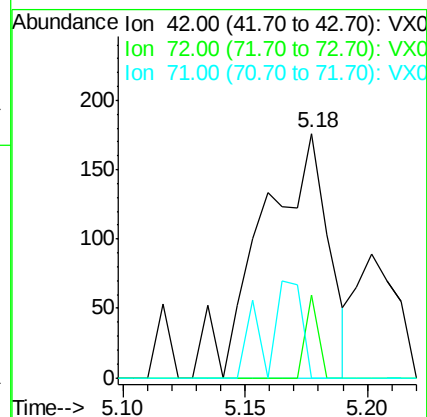
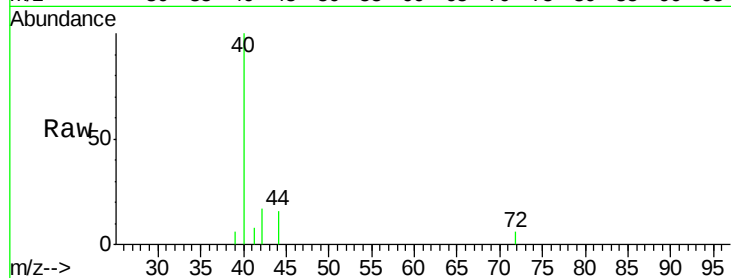
Tot Ion: 42 Resp: 333

Ion Ratio Lower Upper

42 100

72 6.6 33.8 50.6#

71 21.3 31.5 47.3#



#31

Cyclohexane

Concen: 0.944 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX008019.D

Acq: 12 Mar 2019 16:34

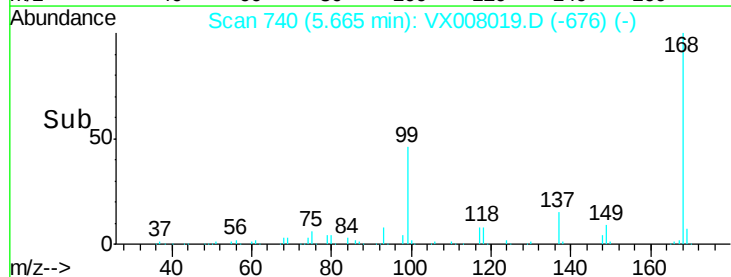
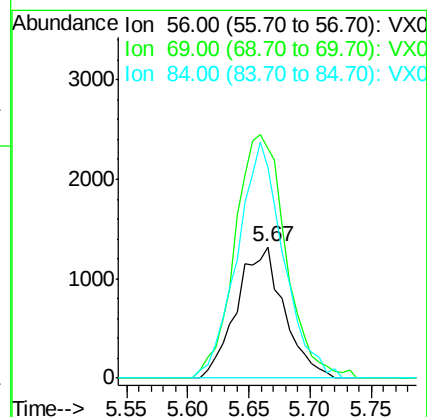
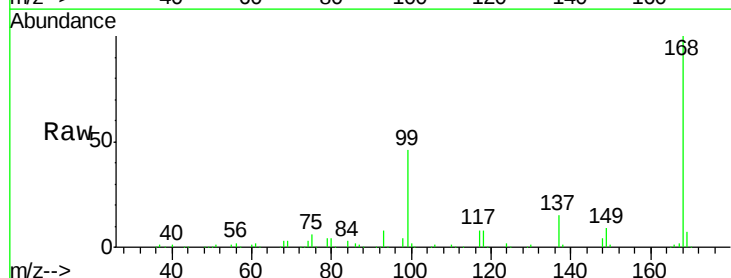
Tgt Ion: 56 Resp: 3554

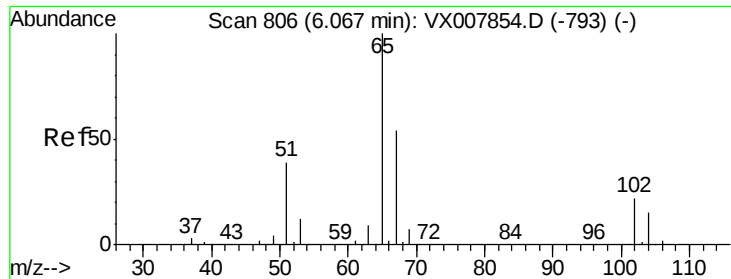
Ion Ratio Lower Upper

56 100

69 175.0 24.0 36.0#

84 159.9 65.3 97.9#

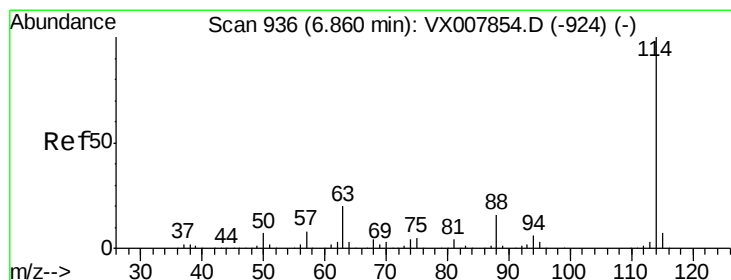
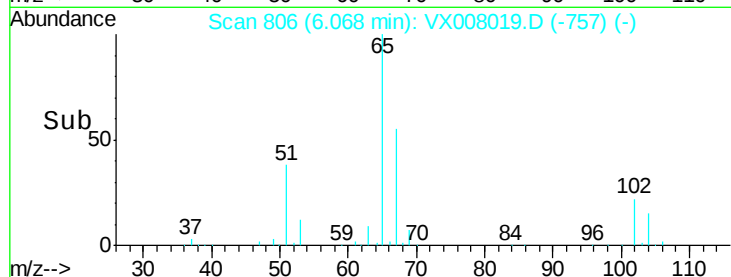
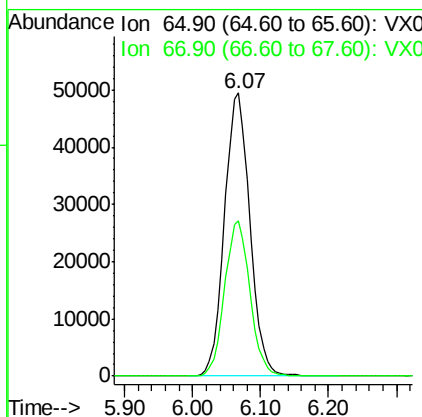
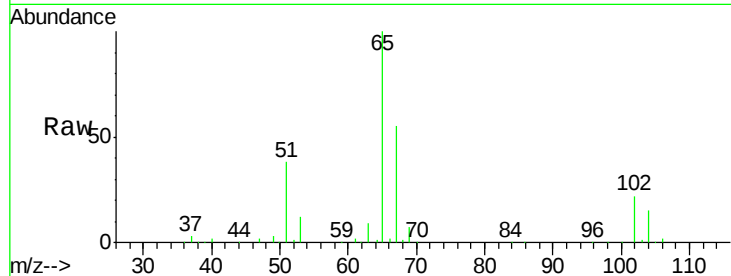




#33
 1,2-Dichloroethane-d4
 Concen: 52.267 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX008019.D
 Acq: 12 Mar 2019 16:34

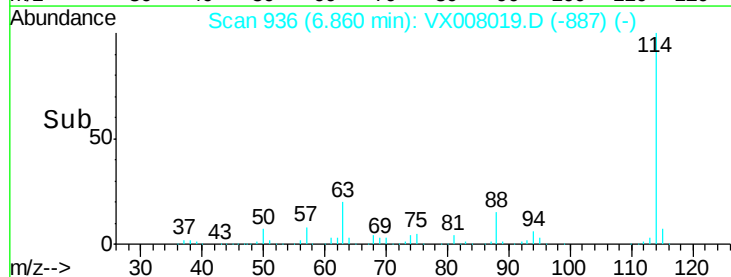
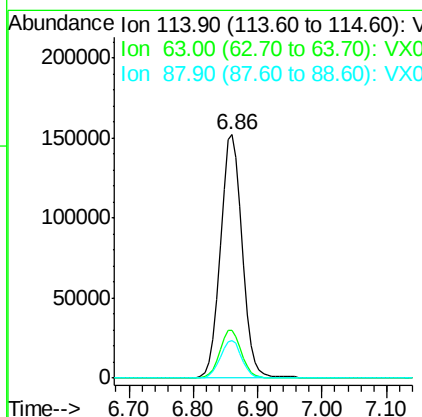
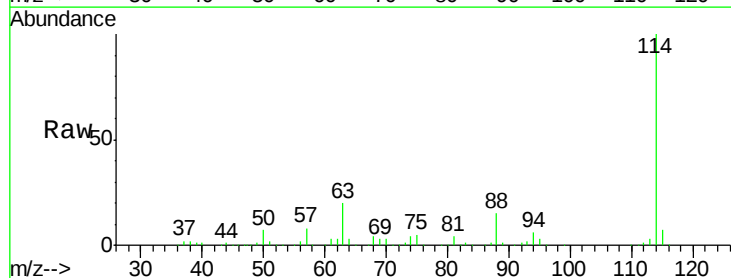
Instrument :
 MSVOA_X
 ClientSampleId :
 RE125D2-20190308DL

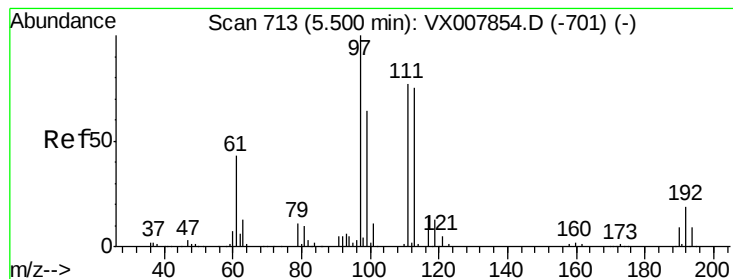
Tot Ion: 65 Resp: 128052
 Ion Ratio Lower Upper
 65 100
 67 54.6 0.0 110.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008019.D
 Acq: 12 Mar 2019 16:34

Tgt Ion: 114 Resp: 363868
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 39.8
 88 15.3 0.0 31.4





#35

Dibromofluoromethane

Concen: 50.666 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX008019.D

Acq: 12 Mar 2019 16:34

Instrument :

MSVOA_X

ClientSampleId :

RE125D2-20190308DL

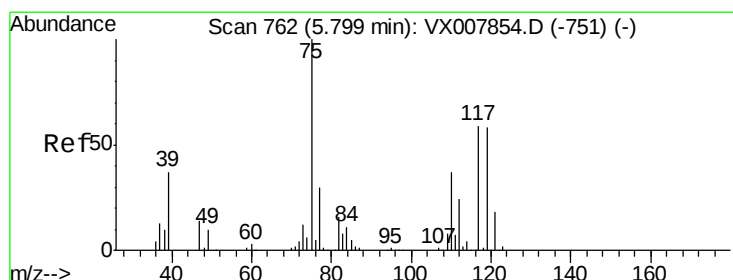
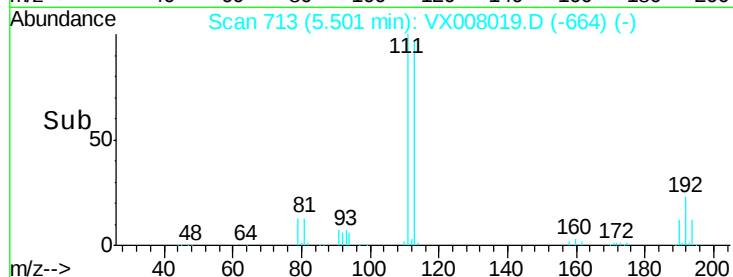
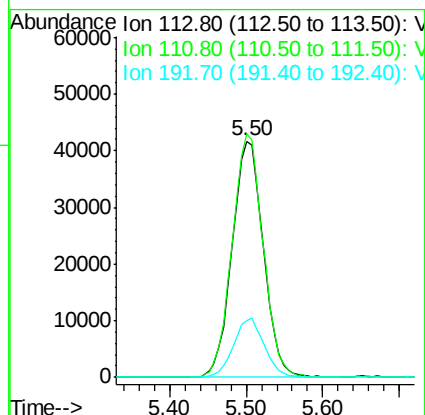
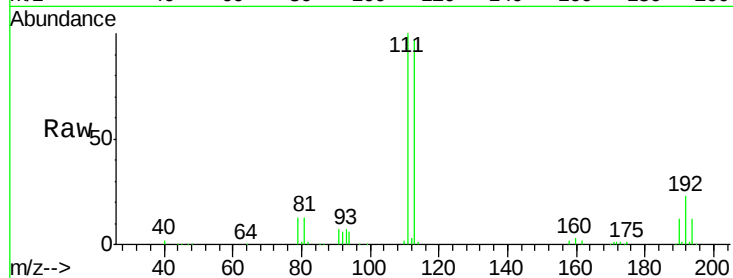
Tot Ion:113 Resp: 117928

Ion Ratio Lower Upper

113 100

111 102.1 81.4 122.0

192 24.5 19.4 29.0



#36

1,1-Dichloropropene

Concen: 4.316 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008019.D

Acq: 12 Mar 2019 16:34

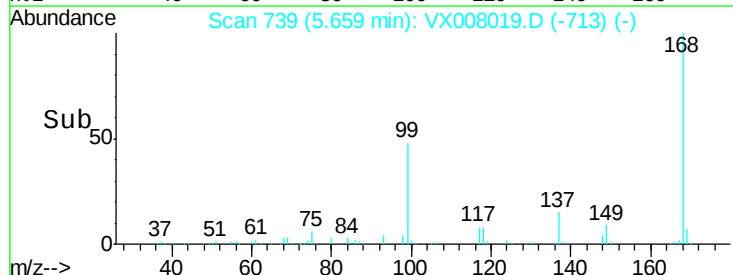
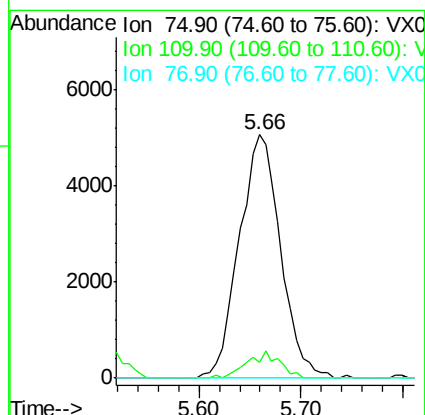
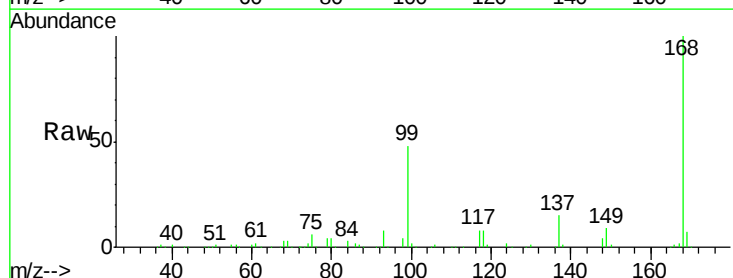
Tgt Ion: 75 Resp: 14219

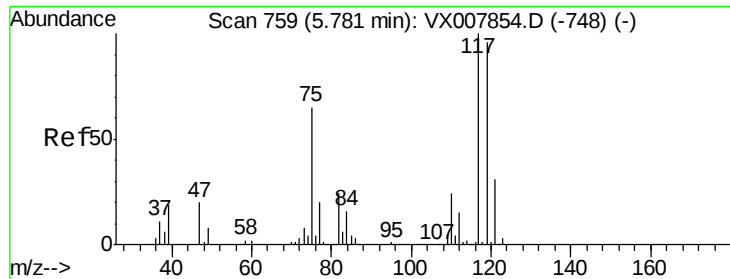
Ion Ratio Lower Upper

75 100

110 8.7 18.4 55.0#

77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.262 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX008019.D

Acq: 12 Mar 2019 16:34

Instrument :

MSVOA_X

ClientSampleId :

RE125D2-20190308DL

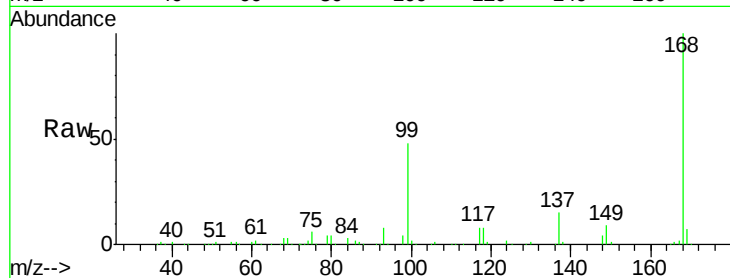
Tot Ion:117 Resp: 19587

Ion Ratio Lower Upper

117 100

119 7.1 76.2 114.2#

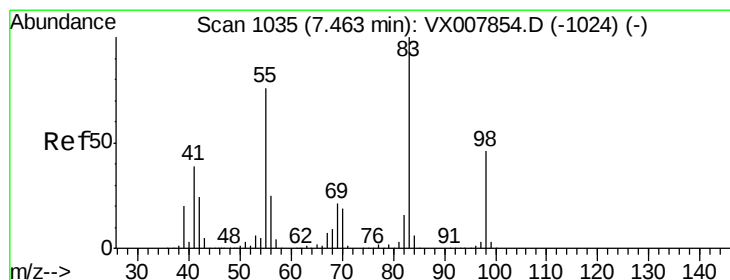
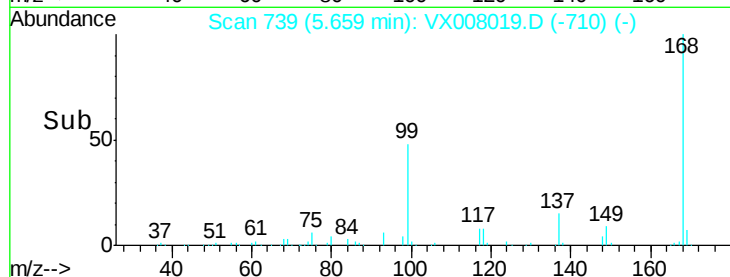
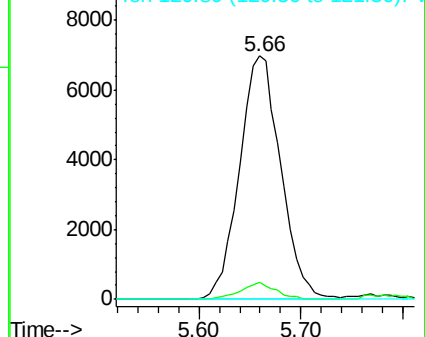
121 0.0 24.6 36.8#



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: 0.406 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.25 min

Lab File: VX008019.D

Acq: 12 Mar 2019 16:34

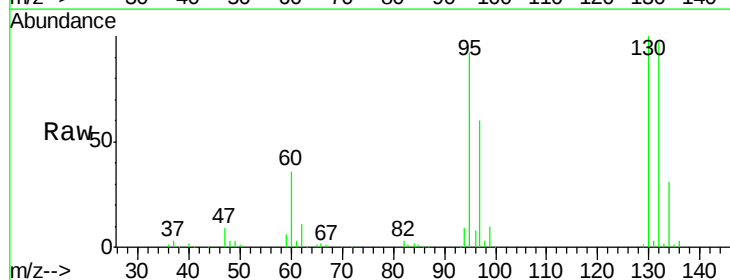
Tgt Ion: 83 Resp: 1621

Ion Ratio Lower Upper

83 100

55 0.0 60.4 90.6#

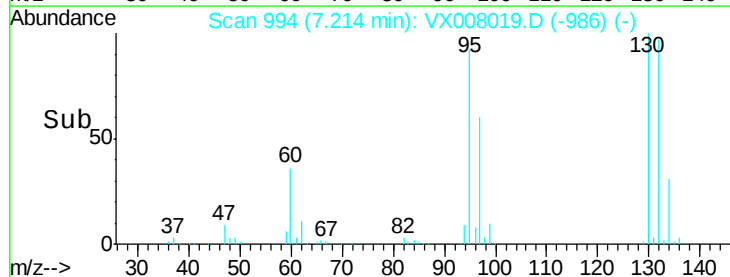
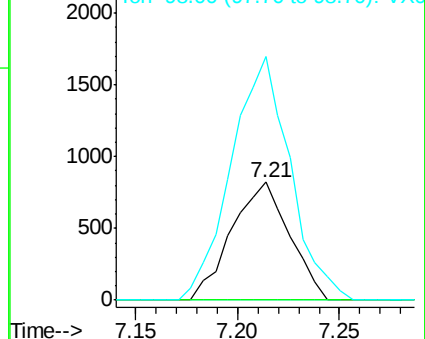
98 198.3 36.5 54.7#

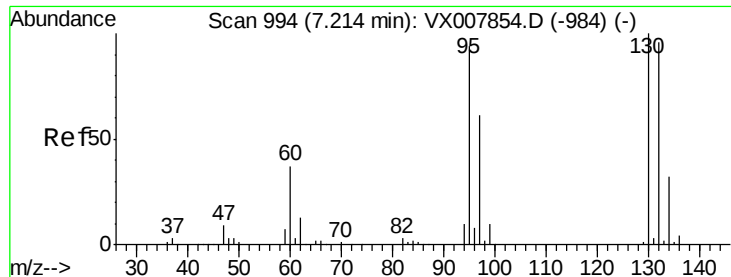


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 53.267 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX008019.D

Acq: 12 Mar 2019 16:34

Instrument :

MSVOA_X

ClientSampleId :

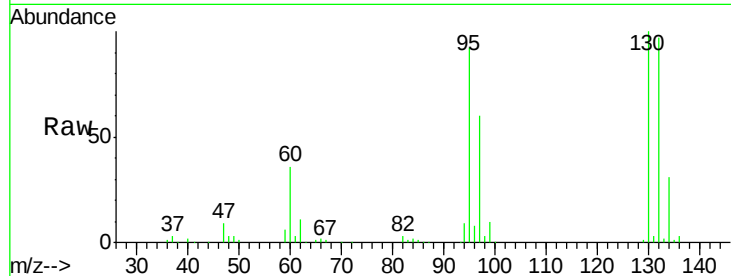
RE125D2-20190308DL

Tot Ion:130 Resp: 143985

Ion Ratio Lower Upper

130 100

95 91.7 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

60000

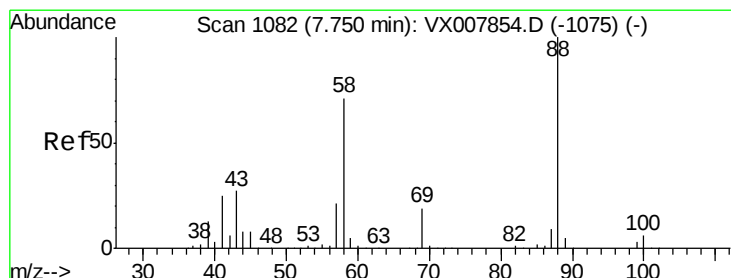
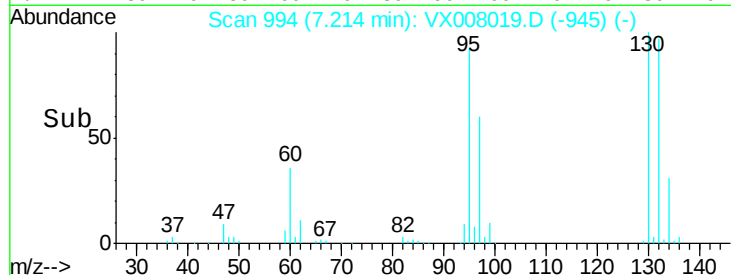
40000

20000

0

Time-->

7.10 7.20 7.30



#49

1,4-Dioxane

Concen: 3.904 ug/l

RT: 7.77 min Scan# 1085

Delta R.T. 0.02 min

Lab File: VX008019.D

Acq: 12 Mar 2019 16:34

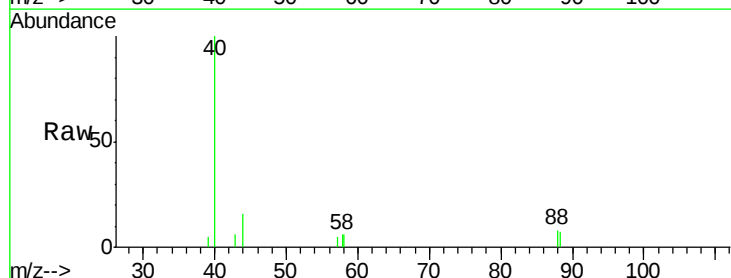
Tgt Ion: 88 Resp: 244

Ion Ratio Lower Upper

88 100

43 26.2 25.1 37.7

58 84.8 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

7.77

250

200

150

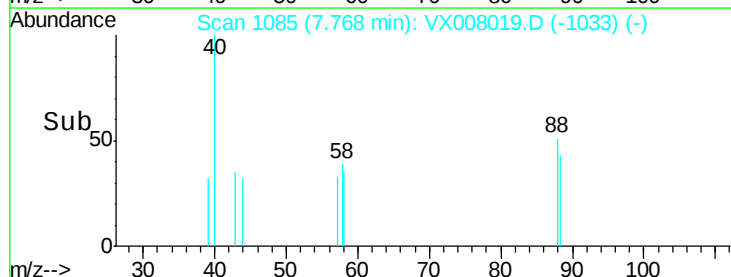
100

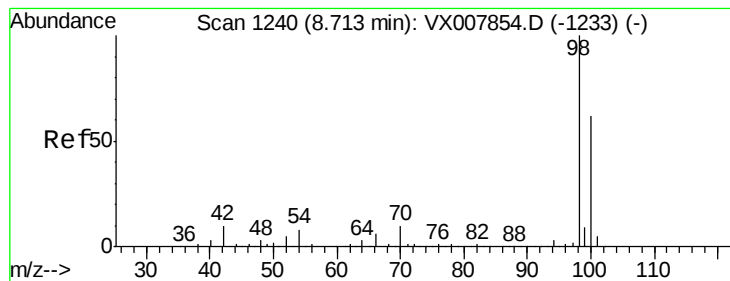
50

0

Time-->

7.75 7.80





#50

Toluene-d8

Concen: 51.510 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008019.D

Acq: 12 Mar 2019 16:34

Instrument :

MSVOA_X

ClientSampleId :

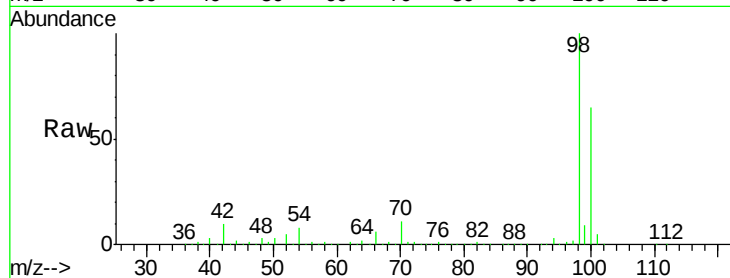
RE125D2-20190308DL

Tot Ion: 98 Resp: 440305

Ion Ratio Lower Upper

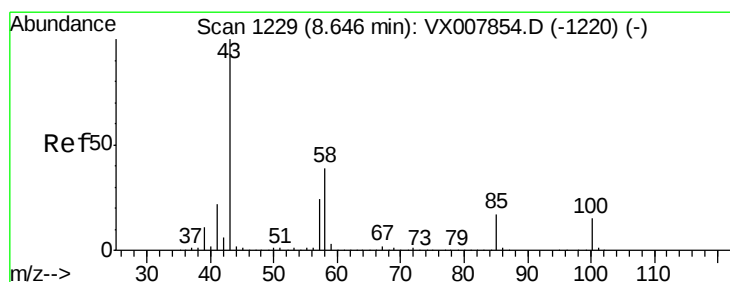
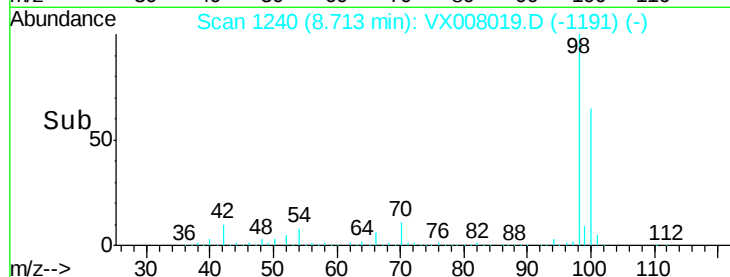
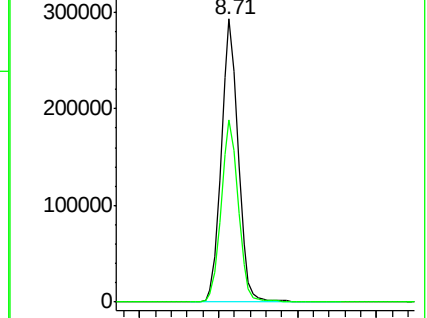
98 100

100 65.2 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.467 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.07 min

Lab File: VX008019.D

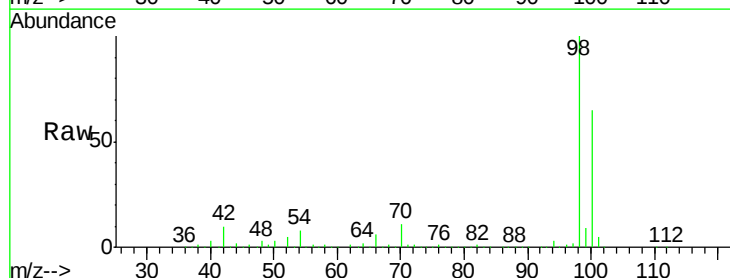
Acq: 12 Mar 2019 16:34

Tgt Ion: 43 Resp: 1737

Ion Ratio Lower Upper

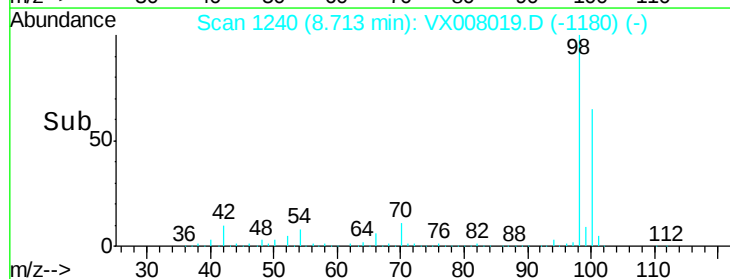
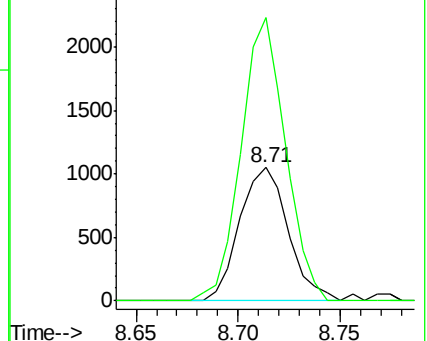
43 100

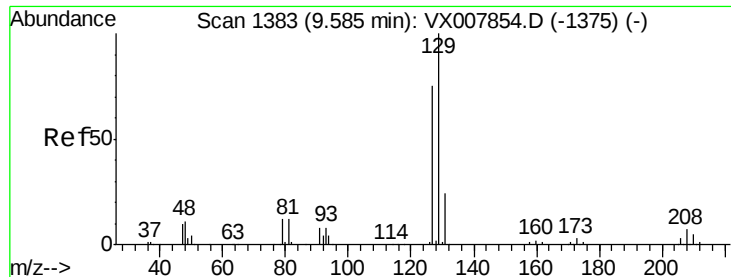
58 194.4 31.3 46.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

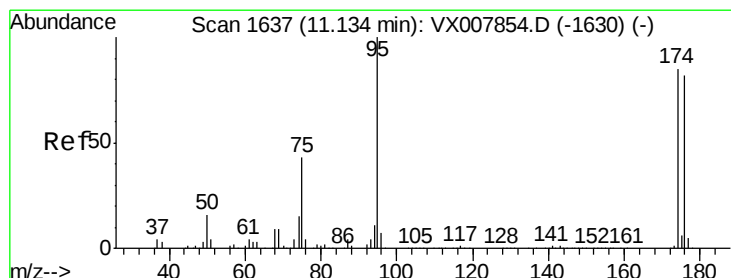
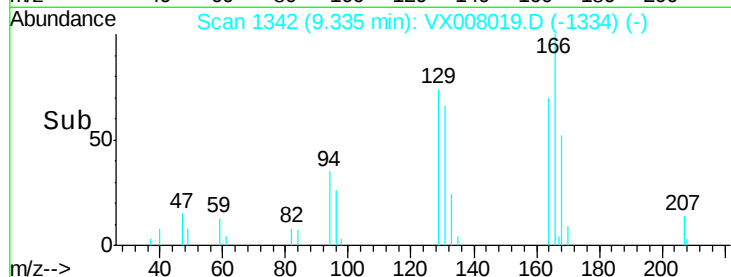
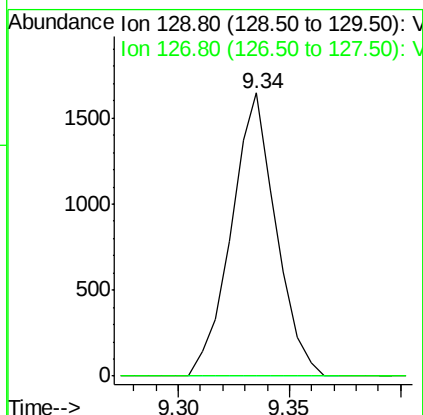
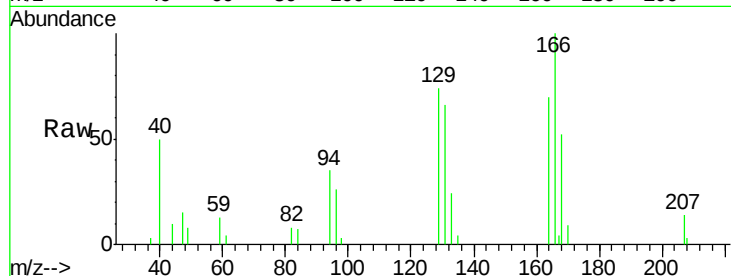




#60
 Dibromochloromethane
 Concen: 0.905 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. -0.25 min
 Lab File: VX008019.D
 Acq: 12 Mar 2019 16:34

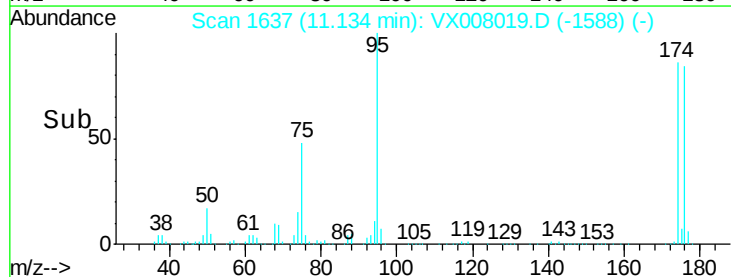
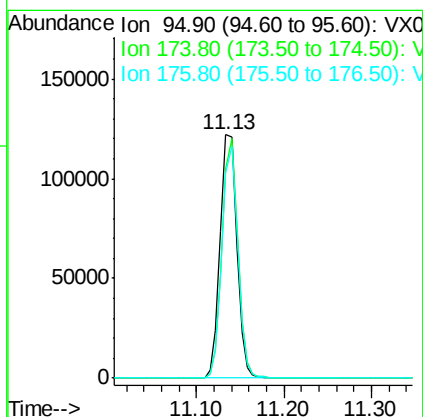
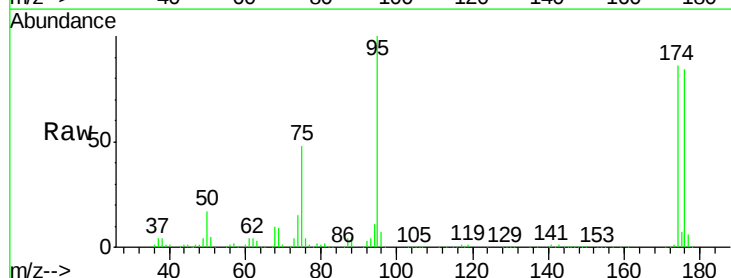
Instrument :
 MSVOA_X
 ClientSampleId :
 RE125D2-20190308DL

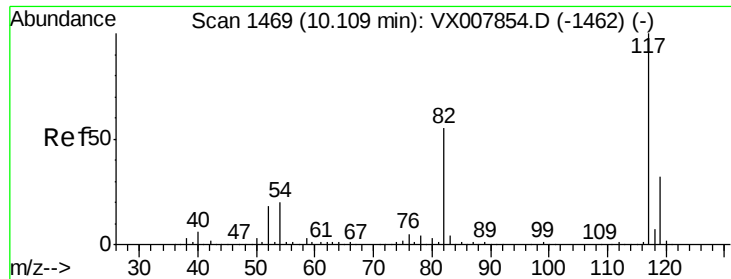
Tot Ion:129 Resp: 2293
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.3 114.8#



#62
 4-Bromofluorobenzene
 Concen: 54.022 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VX008019.D
 Acq: 12 Mar 2019 16:34

Tgt Ion: 95 Resp: 161901
 Ion Ratio Lower Upper
 95 100
 174 93.0 0.0 182.8
 176 90.3 0.0 178.0

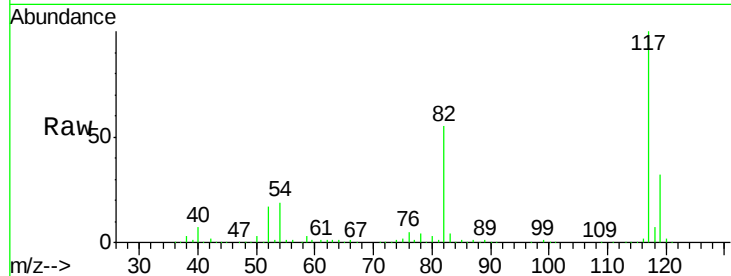




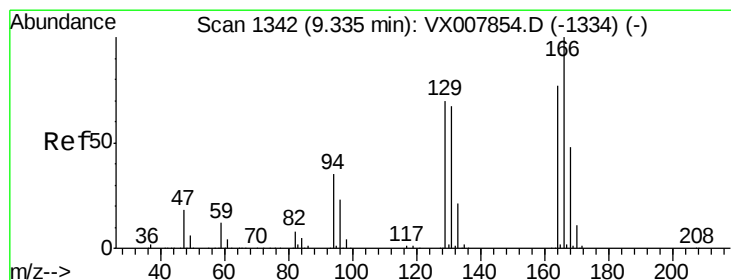
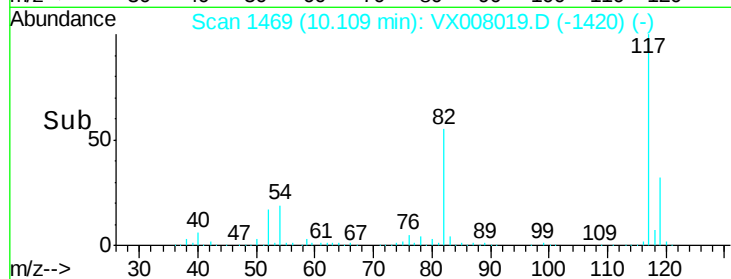
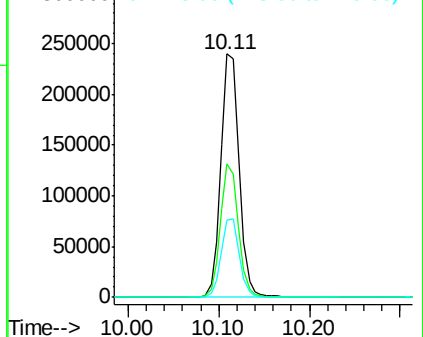
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008019.D
Acq: 12 Mar 2019 16:34

Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20190308DL

Tot Ion:117 Resp: 339393
Ion Ratio Lower Upper
117 100
82 54.8 44.3 66.5
119 31.9 25.3 37.9



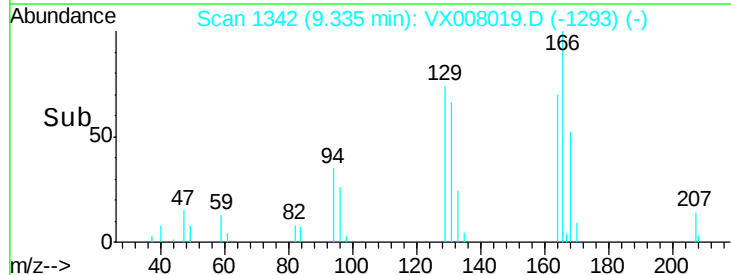
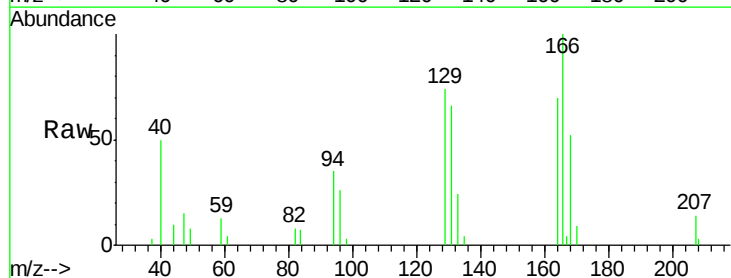
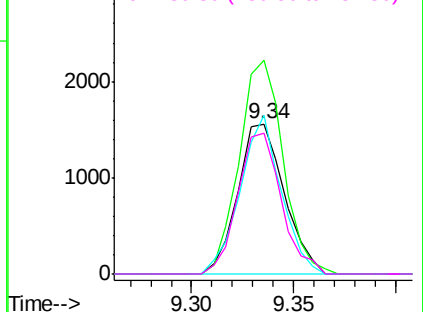
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

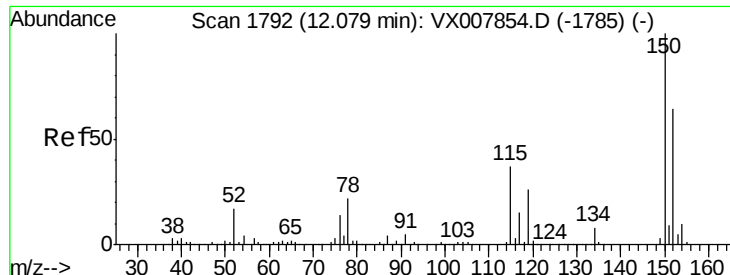


#64
Tetrachloroethene
Concen: 0.879 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX008019.D
Acq: 12 Mar 2019 16:34

Tgt Ion:164 Resp: 2472
Ion Ratio Lower Upper
164 100
166 142.3 103.4 155.0
129 105.5 72.2 108.4
131 94.1 69.4 104.2

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: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX008019.D

Acq: 12 Mar 2019 16:34

Instrument :

MSVOA_X

ClientSampleId :

RE125D2-20190308DL

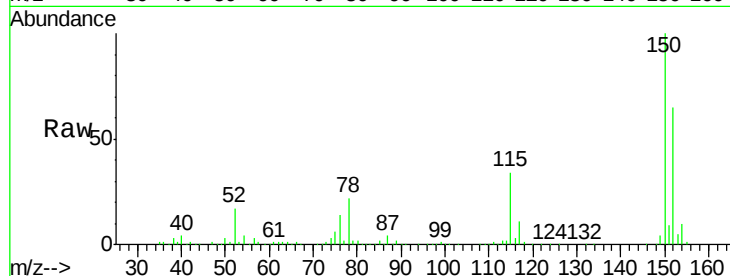
Tot Ion:152 Resp: 175958

Ion Ratio Lower Upper

152 100

115 54.1 38.6 115.7

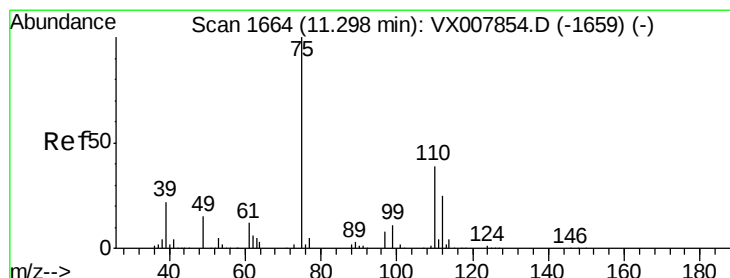
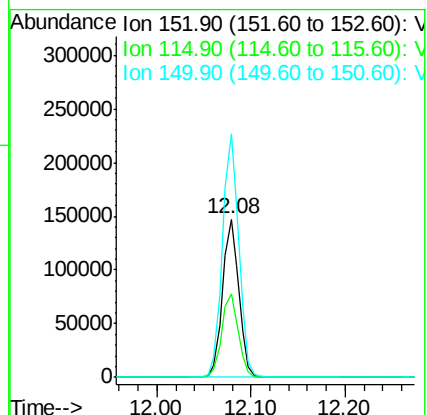
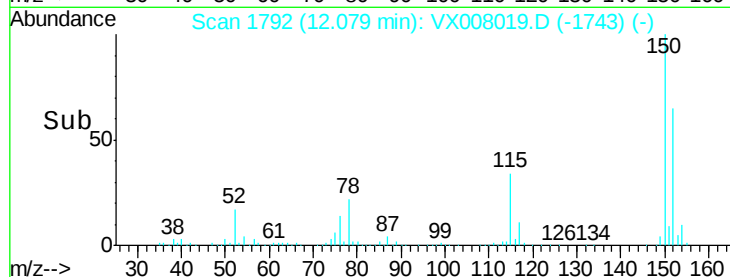
150 155.4 0.0 348.4



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: 20.224 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008019.D

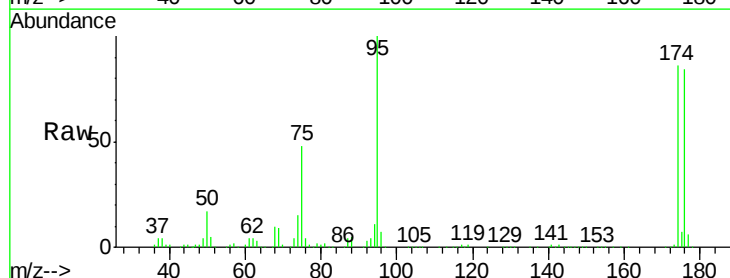
Acq: 12 Mar 2019 16:34

Tgt Ion: 75 Resp: 74672

Ion Ratio Lower Upper

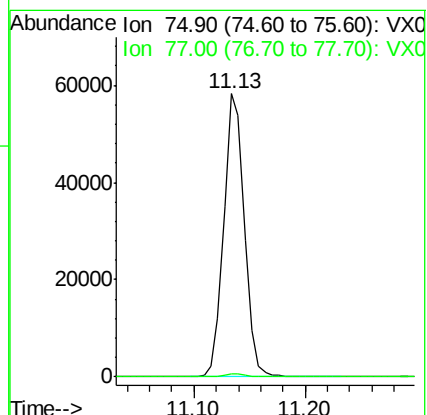
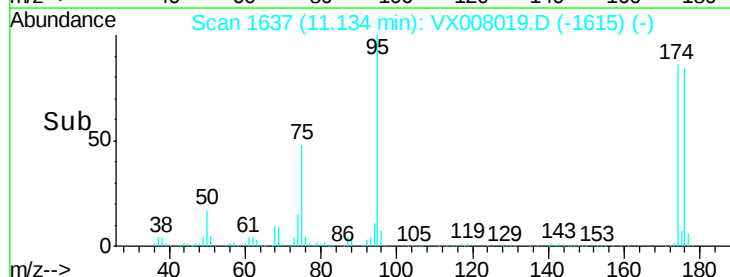
75 100

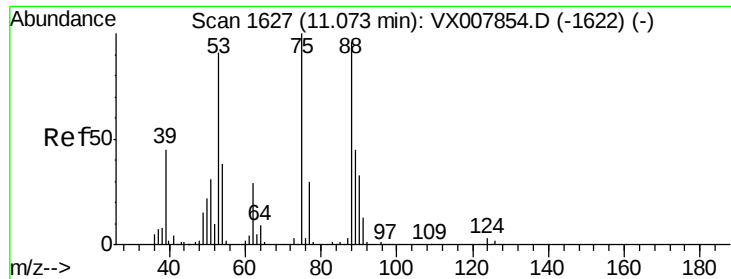
77 1.3 18.9 56.7#



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: 64.644 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008019.D

Acq: 12 Mar 2019 16:34

Instrument :

MSVOA_X

ClientSampleId :

RE125D2-20190308DL

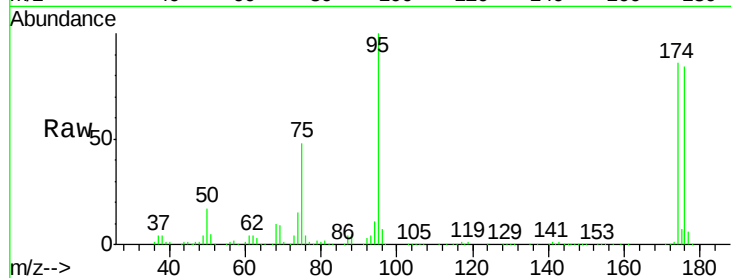
Tot Ion: 75 Resp: 74672

Ion Ratio Lower Upper

75 100

53 0.0 76.1 114.1#

89 0.0 36.3 54.5#



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

