

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031119\
 Data File : VX007975.D
 Acq On : 11 Mar 2019 17:37
 Operator : JC/SP
 Sample : K1793-01DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D1-20190305DL

Quant Time: Mar 12 08:39:53 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	237680	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	368658	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	345757	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	183609	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	128599	51.29	ug/l	0.00
Spiked Amount			Recovery	=	102.58%	
35) Dibromofluoromethane	5.50	113	119362	50.62	ug/l	0.00
Spiked Amount			Recovery	=	101.24%	
50) Toluene-d8	8.71	98	446724	51.58	ug/l	0.00
Spiked Amount			Recovery	=	103.16%	
62) 4-Bromofluorobenzene	11.13	95	168736	55.57	ug/l	0.00
Spiked Amount			Recovery	=	111.14%	

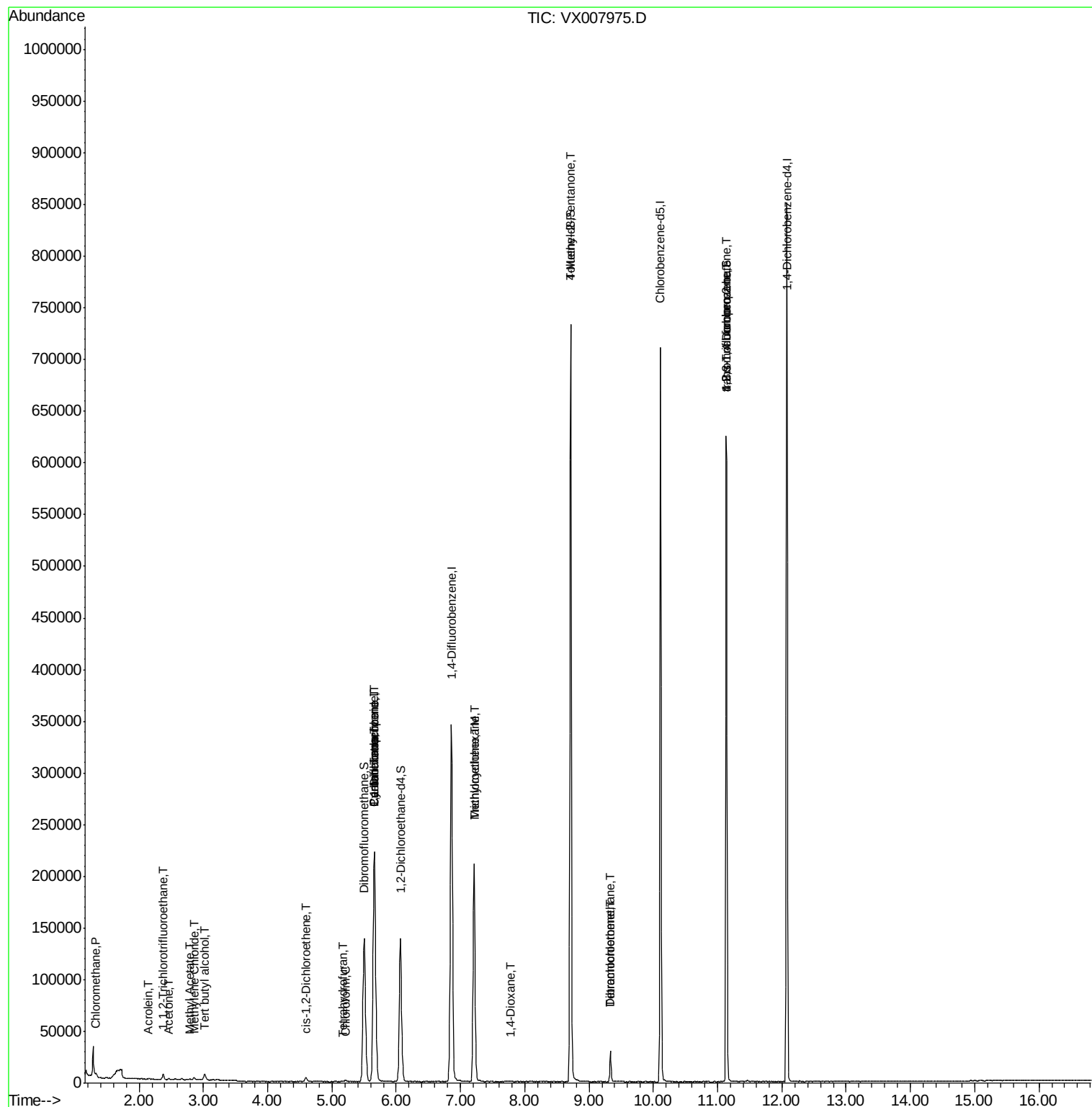
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	526	0.201	ug/l #	78
5) Bromomethane	1.64	94	630	Below Cal		91
9) 1,1,2-Trichlorotrifluoroet	2.38	101	1574	0.750	ug/l	96
11) Tert butyl alcohol	3.02	59	3361	5.994	ug/l #	73
13) Acrolein	2.14	56	25	1.620	ug/l	95
16) Acetone	2.46	43	932	0.642	ug/l	95
17) Carbon Disulfide	2.56	76	811	Below Cal	#	83
18) Methyl Acetate	2.79	43	744	0.241	ug/l	96
20) Methylene Chloride	2.85	84	826	0.358	ug/l #	92
27) cis-1,2-Dichloroethene	4.59	96	2234	0.877	ug/l	87
29) Tetrahydrofuran	5.17	42	394	0.307	ug/l #	44
30) Chloroform	5.21	83	1501	0.379	ug/l	88
31) Cyclohexane	5.66	56	3636	0.944	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	14135	4.234	ug/l #	49
38) Carbon Tetrachloride	5.66	117	20209	6.377	ug/l #	17
39) Methylcyclohexane	7.21	83	1020	0.252	ug/l #	1
44) Trichloroethene	7.21	130	87977	32.124	ug/l	99
49) 1,4-Dioxane	7.77	88	340	5.370	ug/l #	63
51) 4-Methyl-2-Pentanone	8.71	43	1727	0.458	ug/l #	1
60) Dibromochloromethane	9.34	129	5690	2.216	ug/l #	11
64) Tetrachloroethene	9.34	164	6377	2.226	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	76702	19.908	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	76702	63.635	ug/l #	11

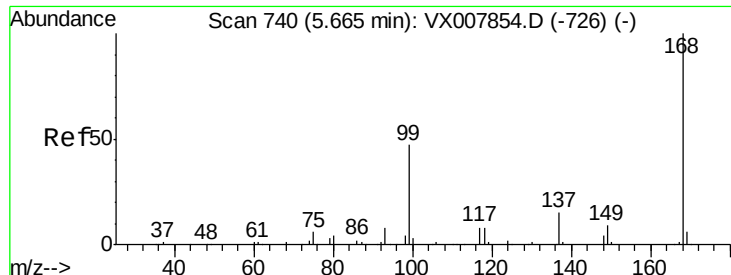
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX007975.D

Acq: 11 Mar 2019 17:37

Instrument :

MSVOA_X

ClientSampleId :

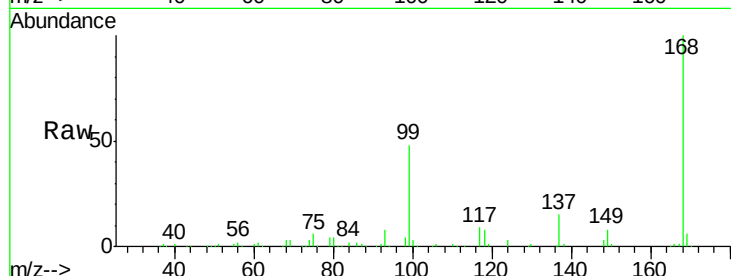
RE131D1-20190305DL

Tot Ion:168 Resp: 237680

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

5.66

80000

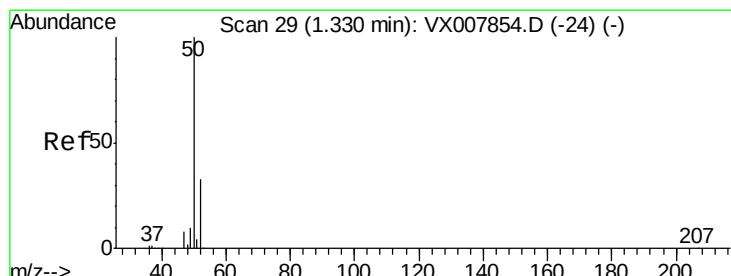
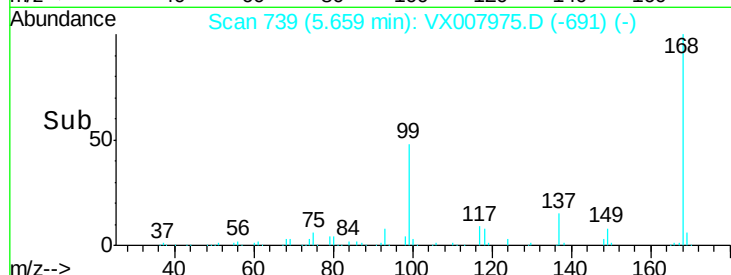
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.201 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX007975.D

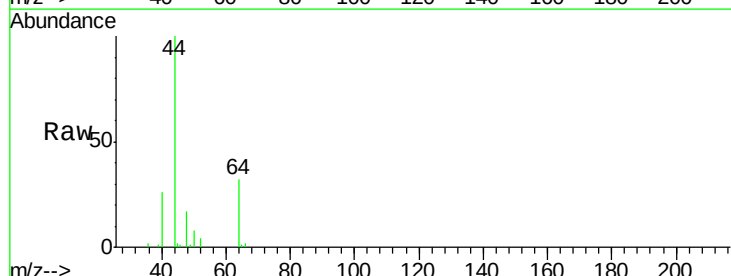
Acq: 11 Mar 2019 17:37

Tgt Ion: 50 Resp: 526

Ion Ratio Lower Upper

50 100

52 45.4 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

400

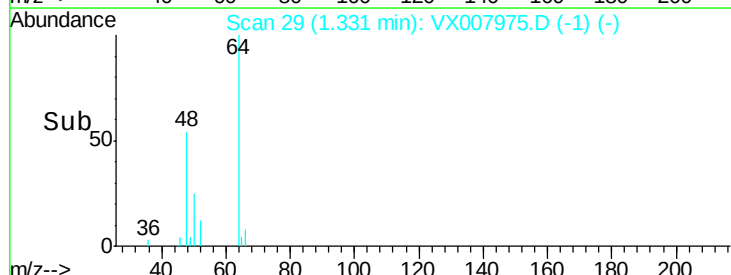
300

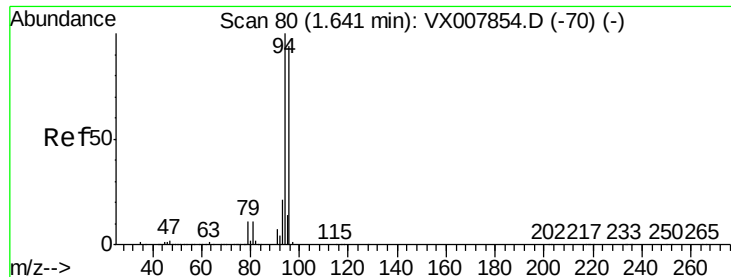
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX007975.D

Acq: 11 Mar 2019 17:37

Instrument :

MSVOA_X

ClientSampleId :

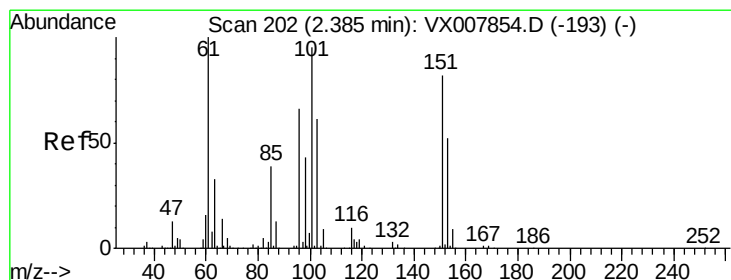
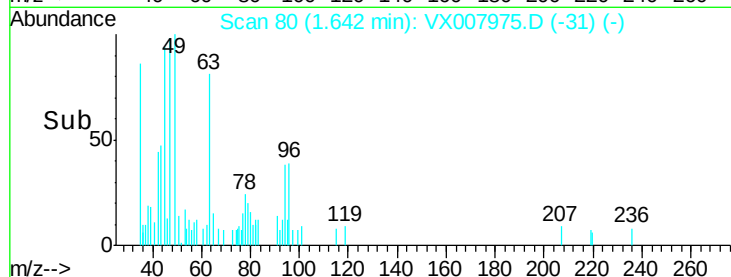
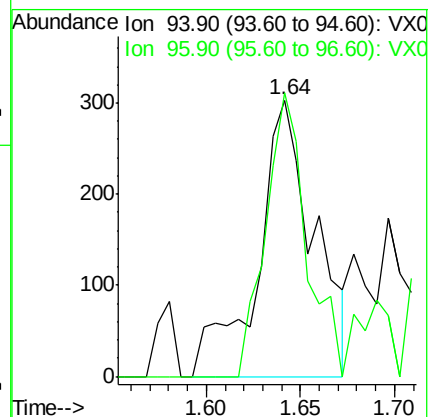
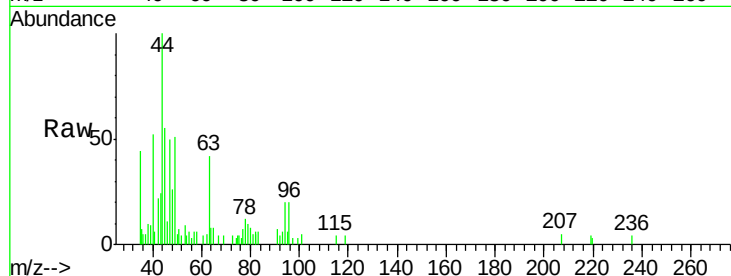
RE131D1-20190305DL

Tot Ion: 94 Resp: 630

Ion Ratio Lower Upper

94 100

96 102.6 75.5 113.3



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.750 ug/l

RT: 2.38 min Scan# 201

Delta R.T. -0.01 min

Lab File: VX007975.D

Acq: 11 Mar 2019 17:37

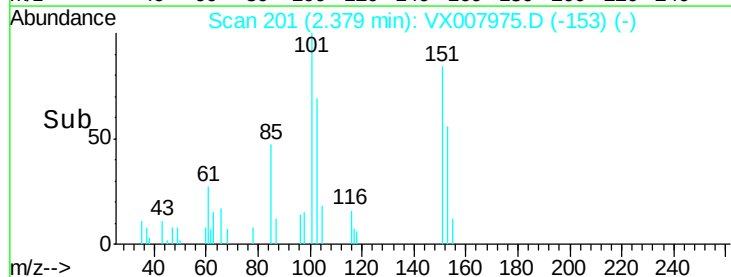
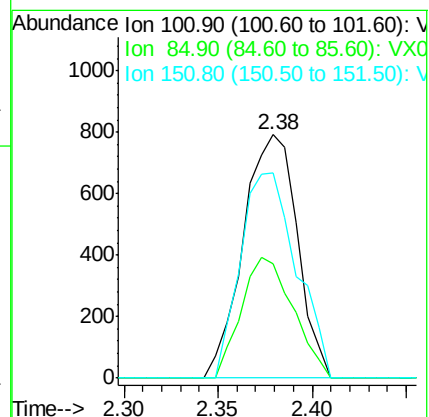
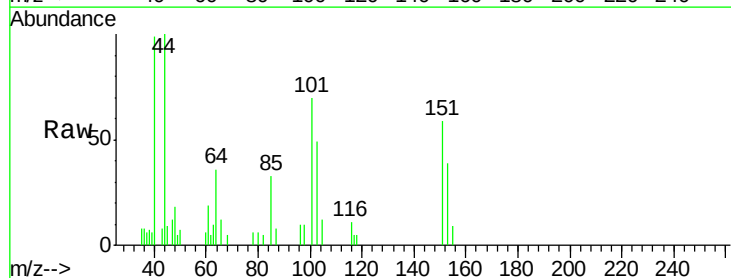
Tgt Ion: 101 Resp: 1574

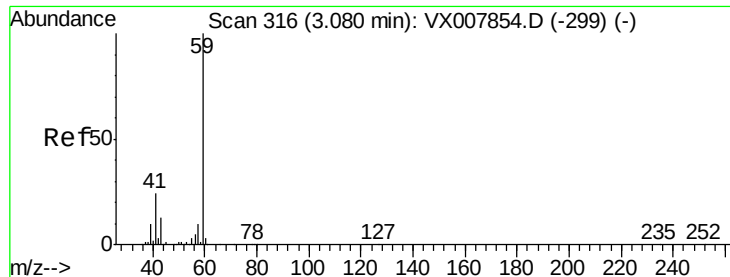
Ion Ratio Lower Upper

101 100

85 47.6 33.8 50.6

151 87.5 69.1 103.7





#11

Tert butyl alcohol

Concen: 5.994 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX007975.D

Acq: 11 Mar 2019 17:37

Instrument :

MSVOA_X

ClientSampleId :

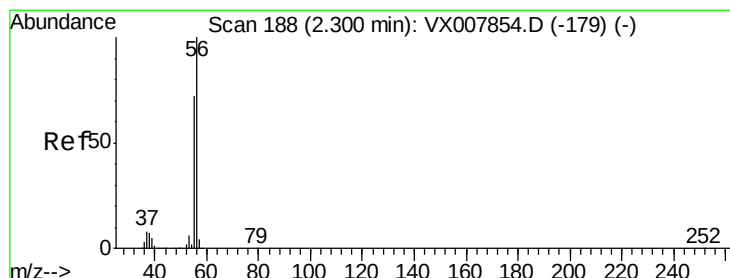
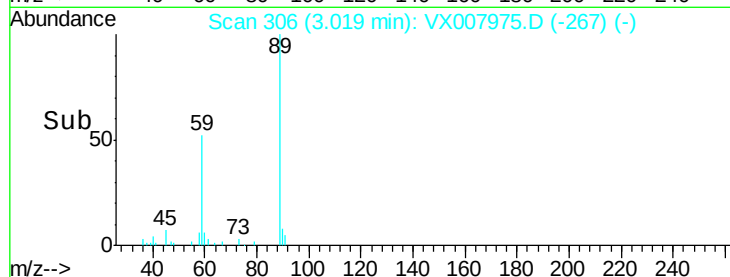
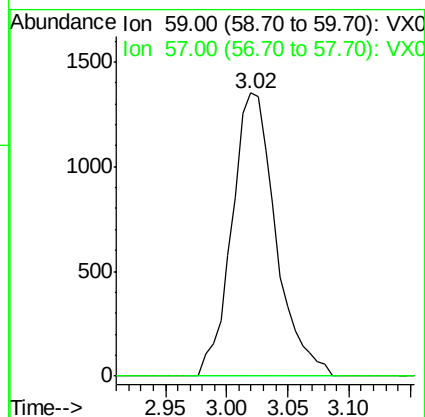
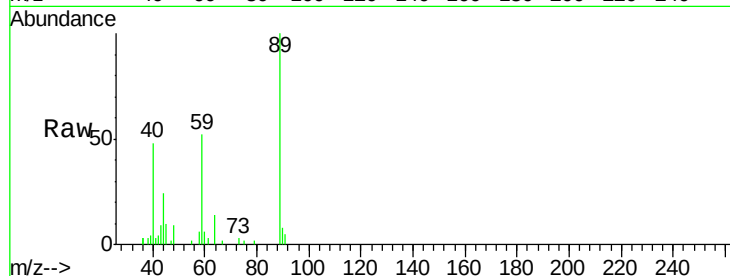
RE131D1-20190305DL

Tot Ion: 59 Resp: 3361

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



#13

Acrolein

Concen: 1.620 ug/l

RT: 2.14 min Scan# 161

Delta R.T. -0.16 min

Lab File: VX007975.D

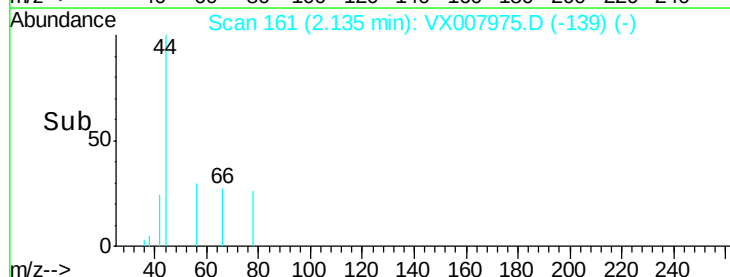
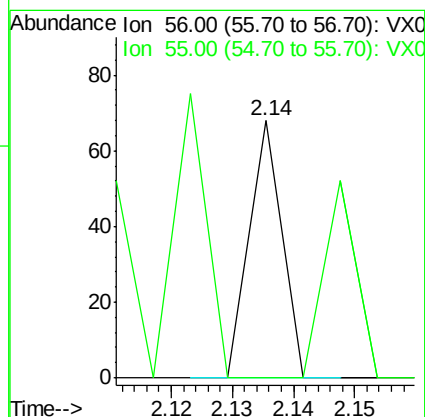
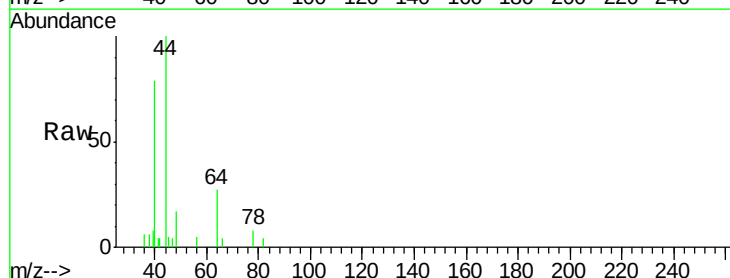
Acq: 11 Mar 2019 17:37

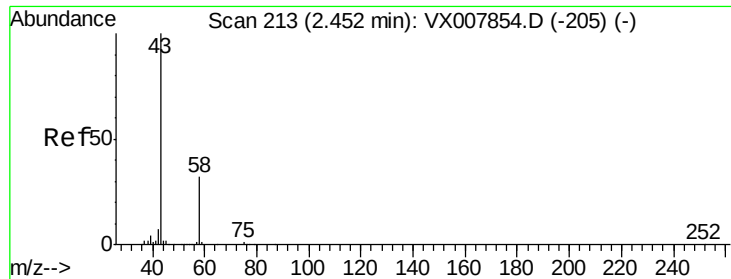
Tgt Ion: 56 Resp: 25

Ion Ratio Lower Upper

56 100

55 76.0 57.8 86.6





#16

Acetone

Concen: 0.642 ug/l

RT: 2.46 min Scan# 215

Delta R.T. 0.01 min

Lab File: VX007975.D

Acq: 11 Mar 2019 17:37

Instrument :

MSVOA_X

ClientSampleId :

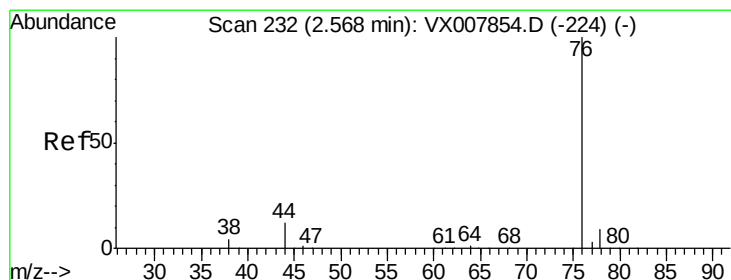
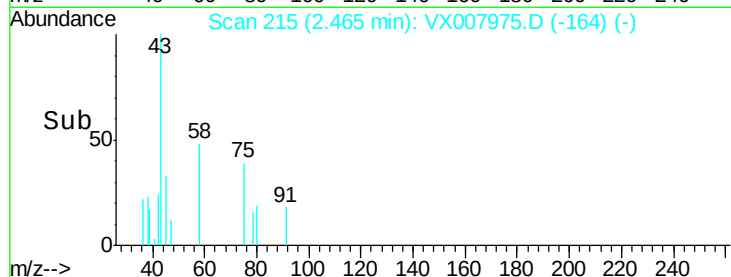
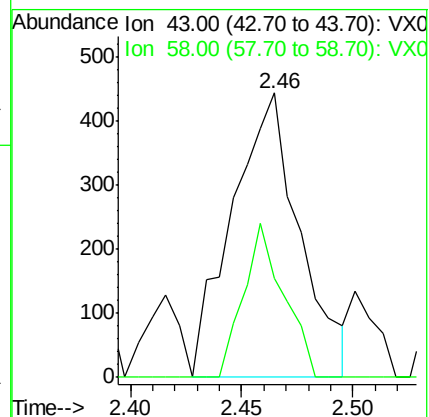
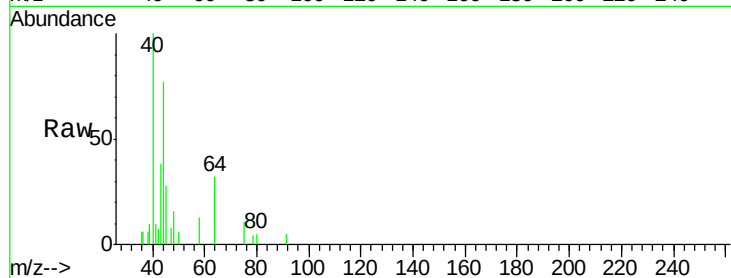
RE131D1-20190305DL

Tot Ion: 43 Resp: 932

Ion Ratio Lower Upper

43 100

58 34.8 25.5 38.3



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.56 min Scan# 231

Delta R.T. -0.01 min

Lab File: VX007975.D

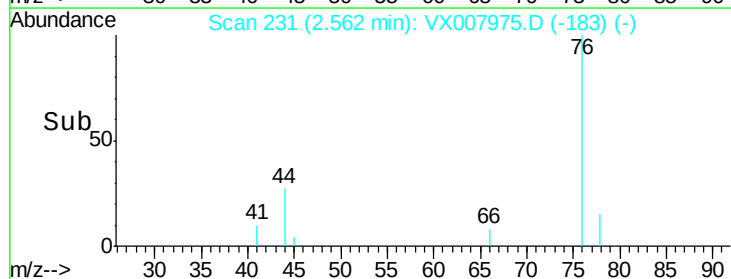
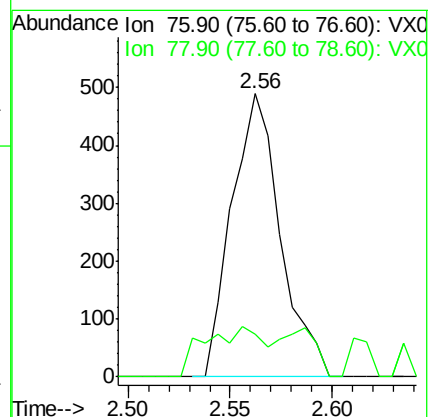
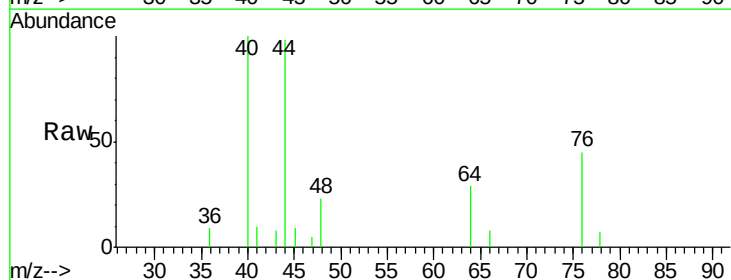
Acq: 11 Mar 2019 17:37

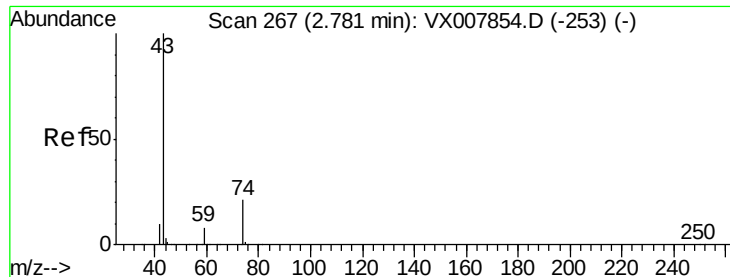
Tgt Ion: 76 Resp: 811

Ion Ratio Lower Upper

76 100

78 15.1 7.2 10.8#

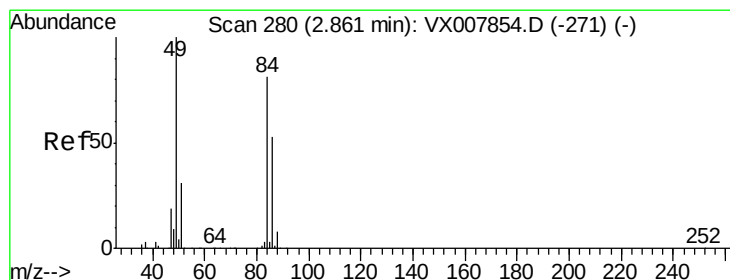
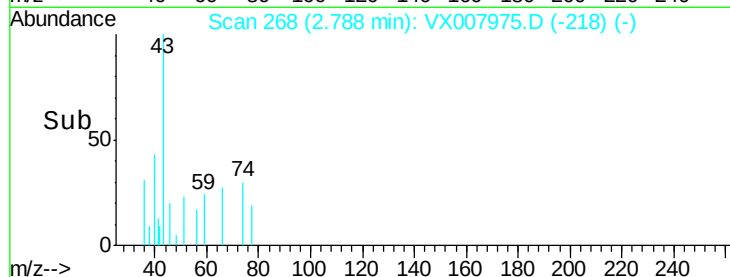
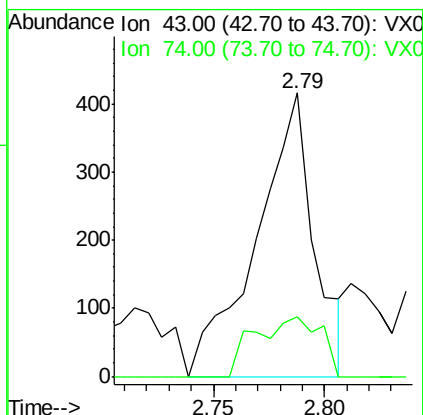
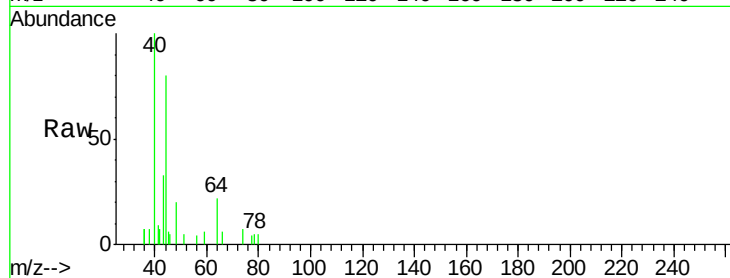




#18
Methyl Acetate
Concen: 0.241 ug/l
RT: 2.79 min Scan# 268
Delta R.T. 0.01 min
Lab File: VX007975.D
Acq: 11 Mar 2019 17:37

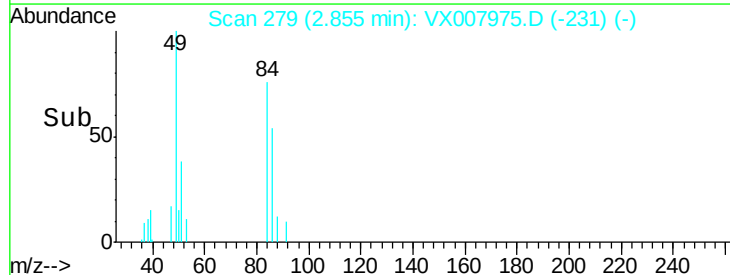
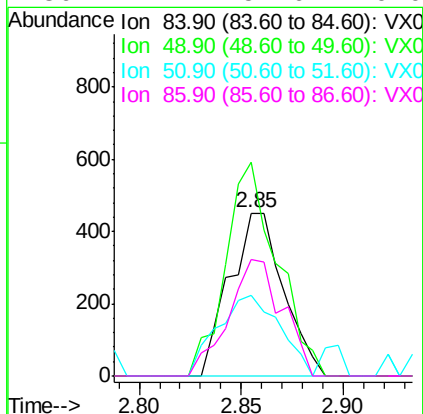
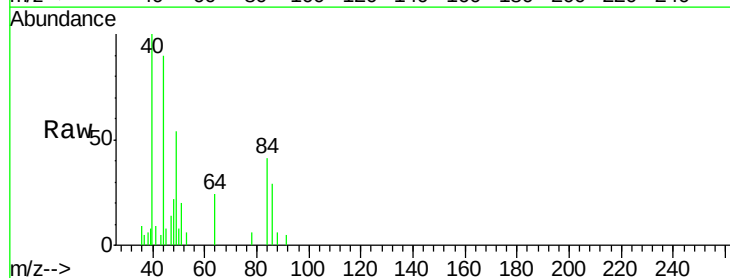
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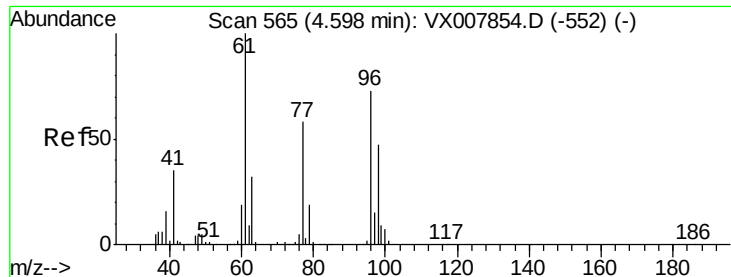
Tot Ion: 43 Resp: 744
Ion Ratio Lower Upper
43 100
74 24.3 17.8 26.6



#20
Methylene Chloride
Concen: 0.358 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX007975.D
Acq: 11 Mar 2019 17:37

Tgt Ion: 84 Resp: 826
Ion Ratio Lower Upper
84 100
49 131.0 99.3 148.9
51 49.7 31.3 46.9#
86 71.4 52.6 79.0





#27

cis-1,2-Dichloroethene

Concen: 0.877 ug/l

RT: 4.59 min Scan# 564

Delta R.T. -0.01 min

Lab File: VX007975.D

Acq: 11 Mar 2019 17:37

Instrument :

MSVOA_X

ClientSampleId :

RE131D1-20190305DL

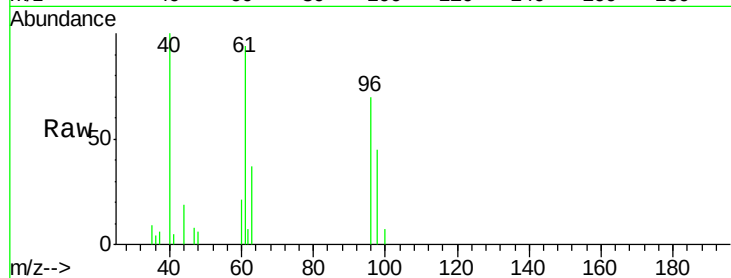
Tot Ion: 96 Resp: 2234

Ion Ratio Lower Upper

96 100

61 164.0 0.0 288.0

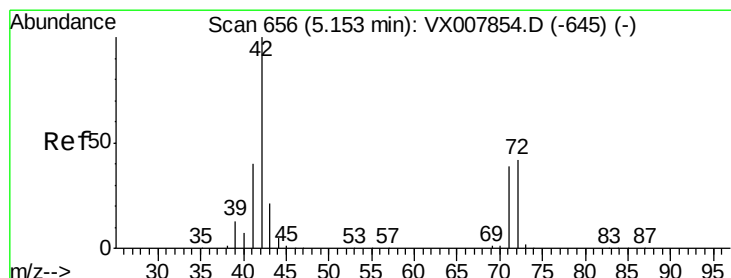
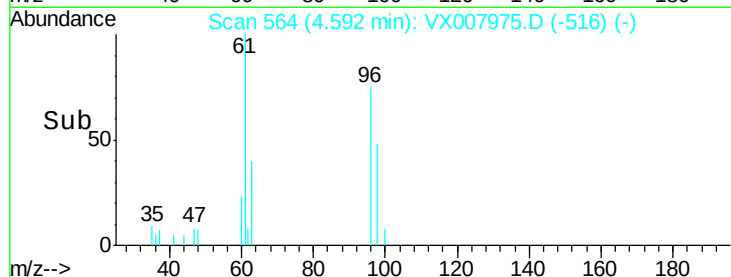
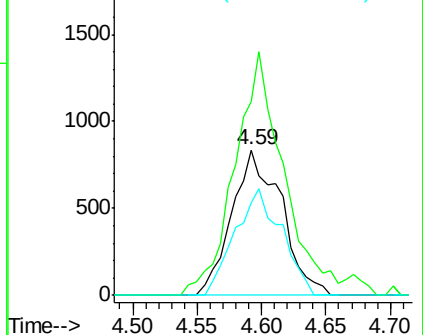
98 68.8 0.0 129.0



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: 0.307 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX007975.D

Acq: 11 Mar 2019 17:37

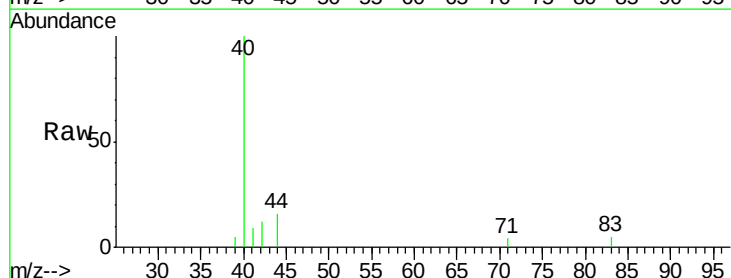
Tgt Ion: 42 Resp: 394

Ion Ratio Lower Upper

42 100

72 0.0 33.8 50.6#

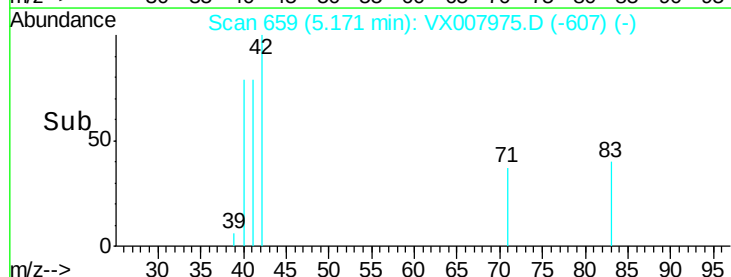
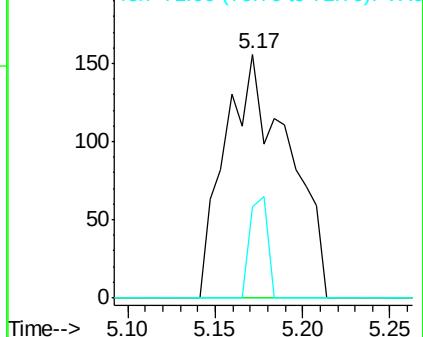
71 11.4 31.5 47.3#

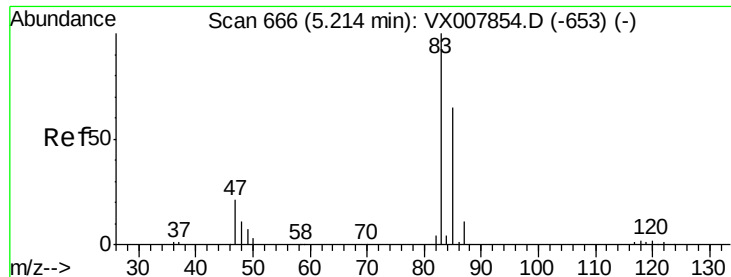


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

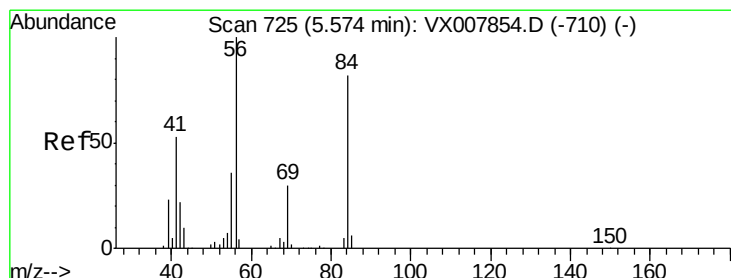
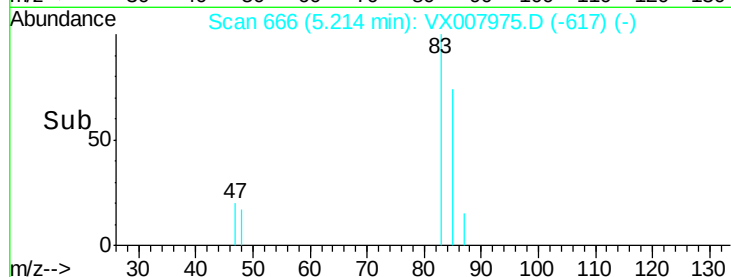
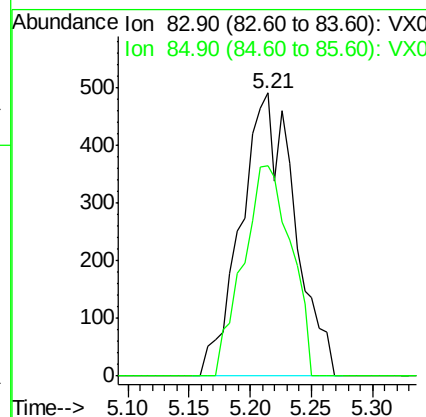
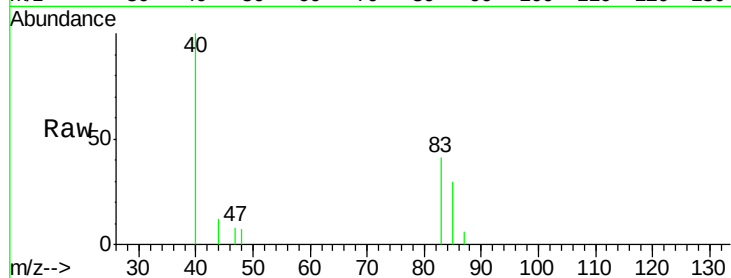




#30
Chloroform
Concen: 0.379 ug/l
RT: 5.21 min Scan# 666
Delta R.T. 0.00 min
Lab File: VX007975.D
Acq: 11 Mar 2019 17:37

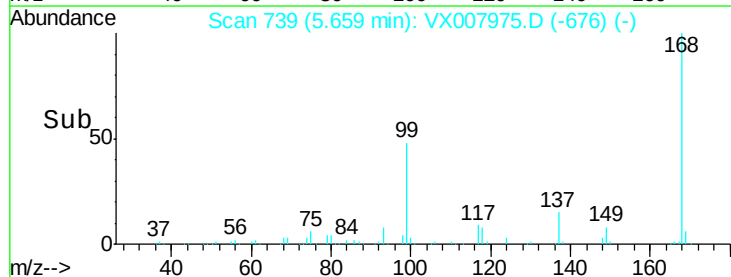
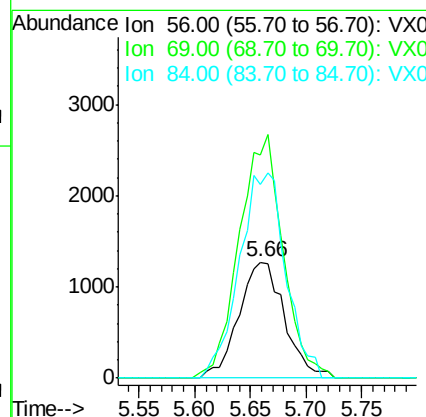
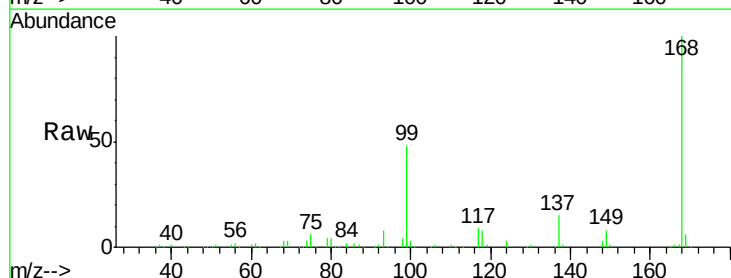
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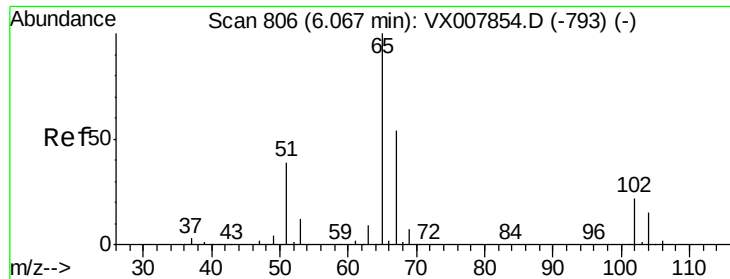
Tot Ion: 83 Resp: 1501
Ion Ratio Lower Upper
83 100
85 74.3 51.8 77.6



#31
Cyclohexane
Concen: 0.944 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX007975.D
Acq: 11 Mar 2019 17:37

Tgt Ion: 56 Resp: 3636
Ion Ratio Lower Upper
56 100
69 192.0 24.0 36.0#
84 166.3 65.3 97.9#

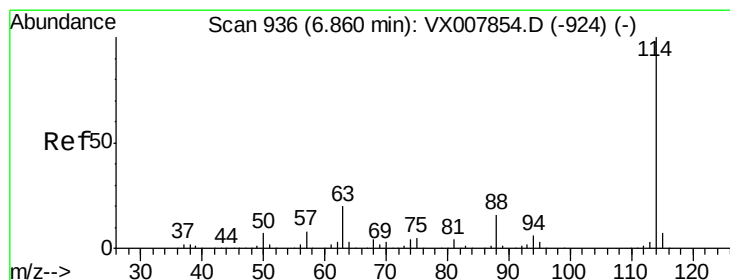
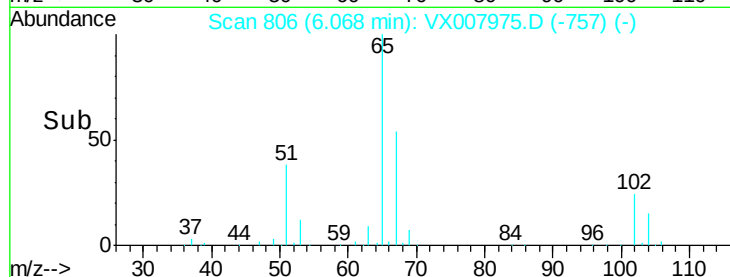
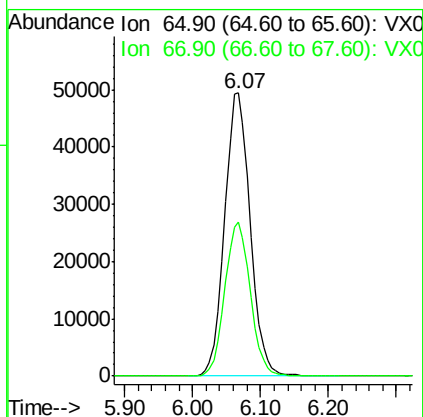
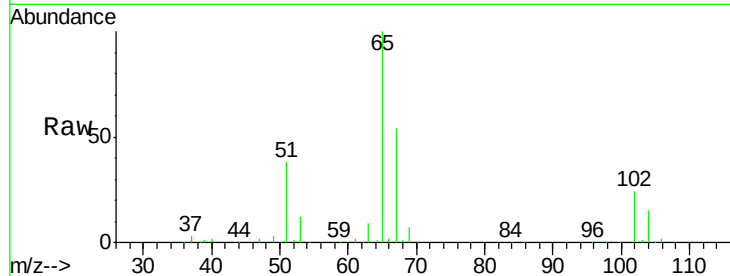




#33
 1,2-Dichloroethane-d4
 Concen: 51.290 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX007975.D
 Acq: 11 Mar 2019 17:37

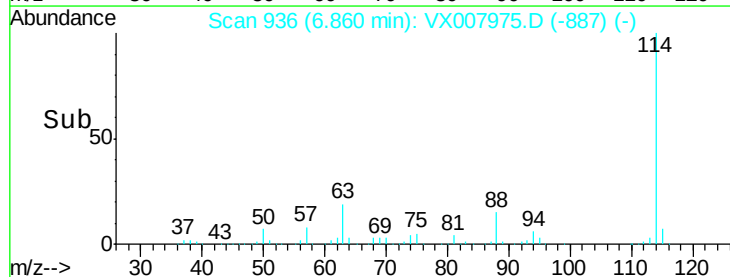
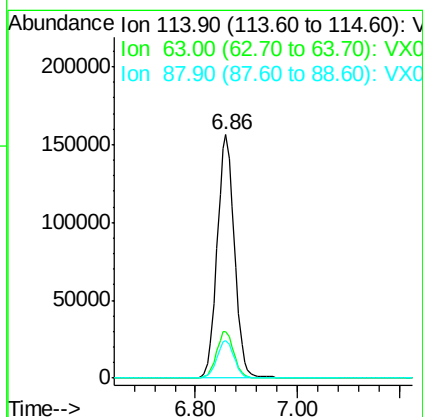
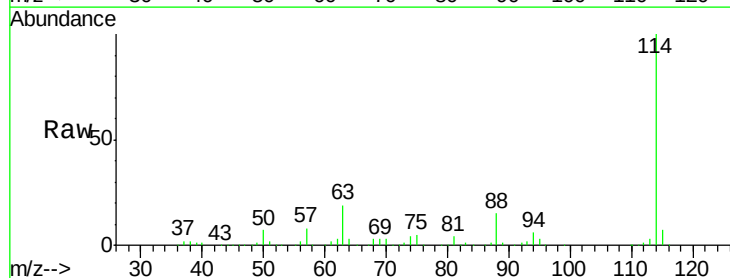
Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D1-20190305DL

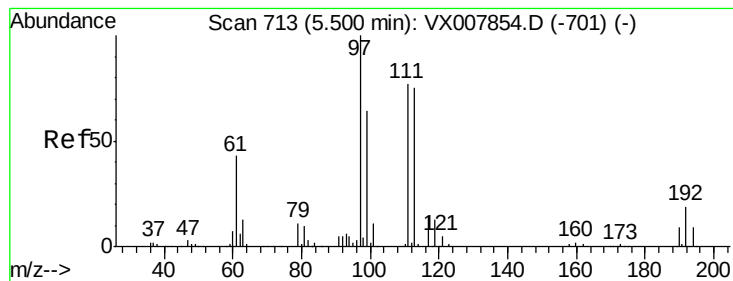
Tot Ion: 65 Resp: 128599
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 110.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX007975.D
 Acq: 11 Mar 2019 17:37

Tgt Ion: 114 Resp: 368658
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 39.8
 88 15.3 0.0 31.4





#35

Dibromofluoromethane

Concen: 50.616 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX007975.D

Acq: 11 Mar 2019 17:37

Instrument :

MSVOA_X

ClientSampleId :

RE131D1-20190305DL

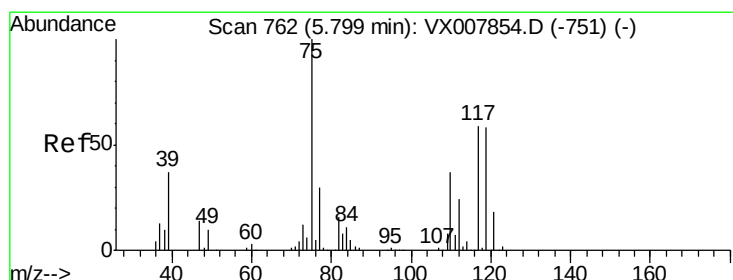
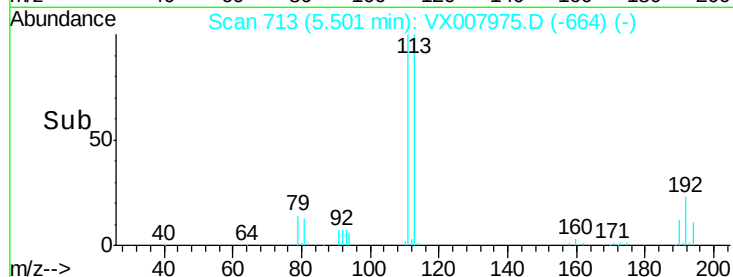
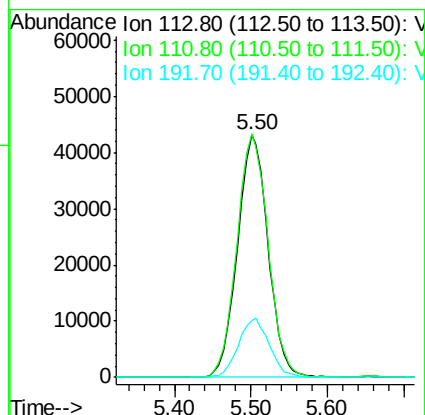
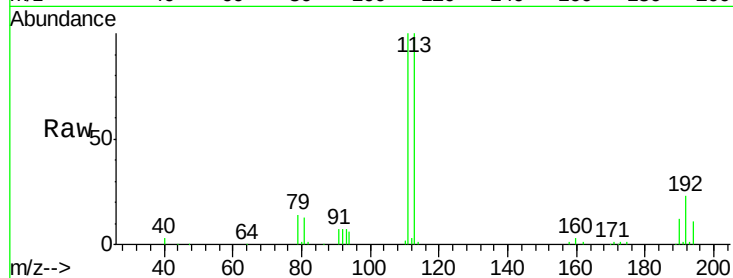
Tot Ion:113 Resp: 119362

Ion Ratio Lower Upper

113 100

111 102.5 81.4 122.0

192 24.7 19.4 29.0



#36

1,1-Dichloropropene

Concen: 4.234 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007975.D

Acq: 11 Mar 2019 17:37

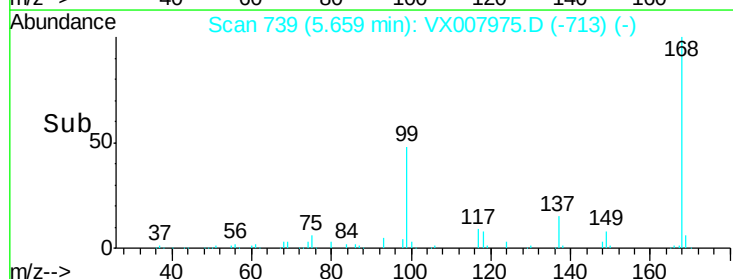
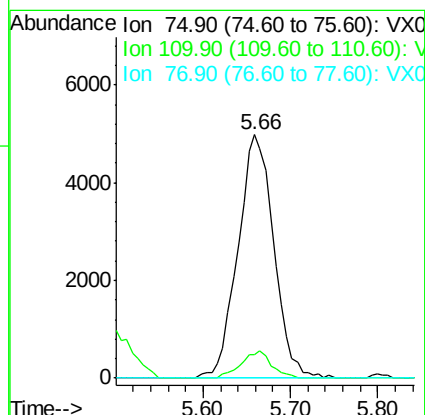
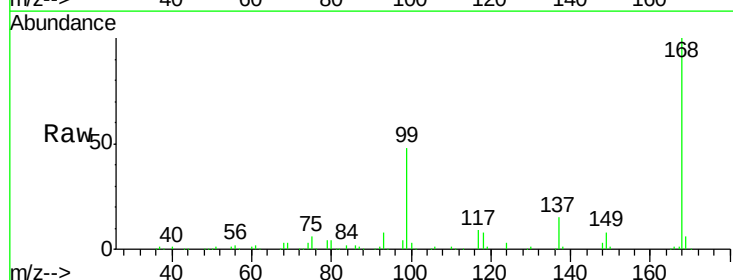
Tgt Ion: 75 Resp: 14135

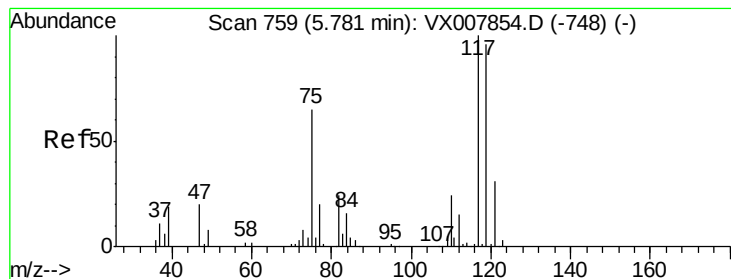
Ion Ratio Lower Upper

75 100

110 9.4 18.4 55.0#

77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.377 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX007975.D

Acq: 11 Mar 2019 17:37

Instrument :

MSVOA_X

ClientSampleId :

RE131D1-20190305DL

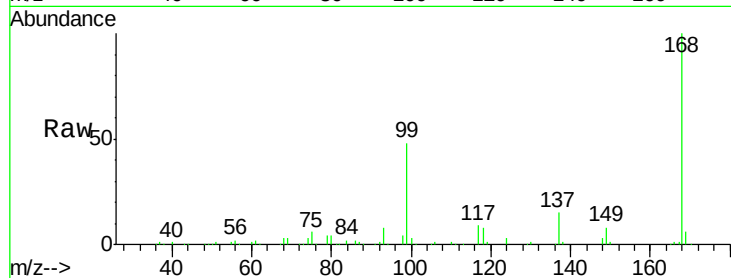
Tot Ion:117 Resp: 20209

Ion Ratio Lower Upper

117 100

119 6.6 76.2 114.2#

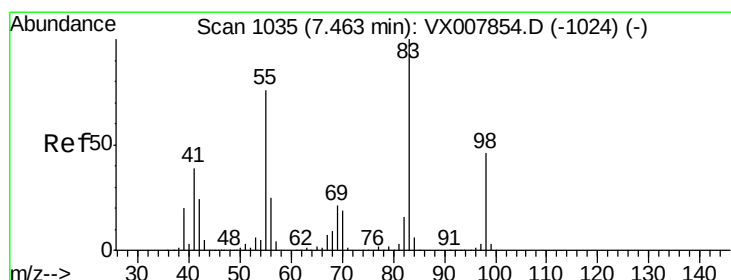
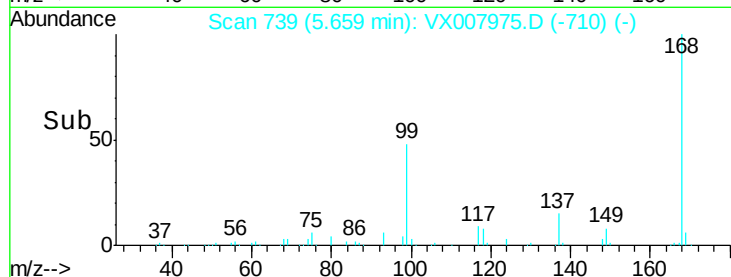
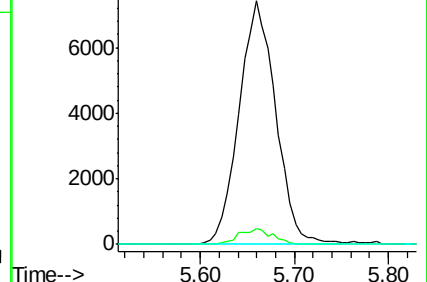
121 0.0 24.6 36.8#



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: 0.252 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.25 min

Lab File: VX007975.D

Acq: 11 Mar 2019 17:37

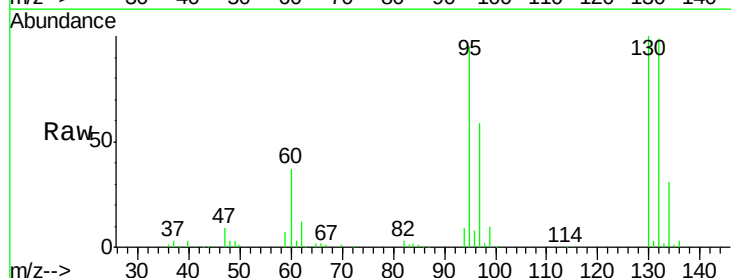
Tgt Ion: 83 Resp: 1020

Ion Ratio Lower Upper

83 100

55 0.0 60.4 90.6#

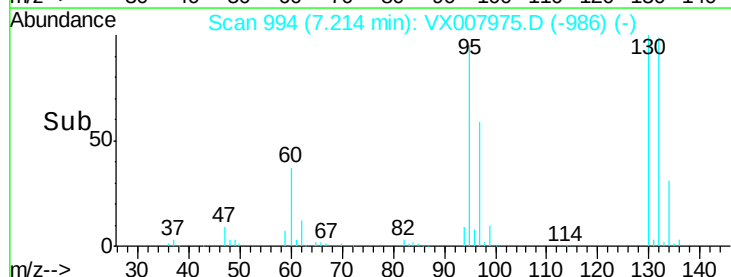
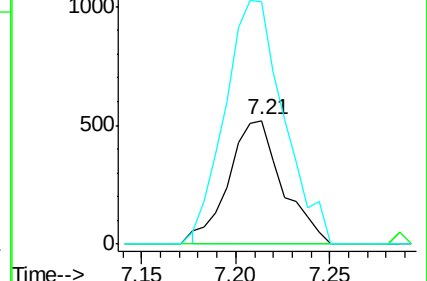
98 195.6 36.5 54.7#

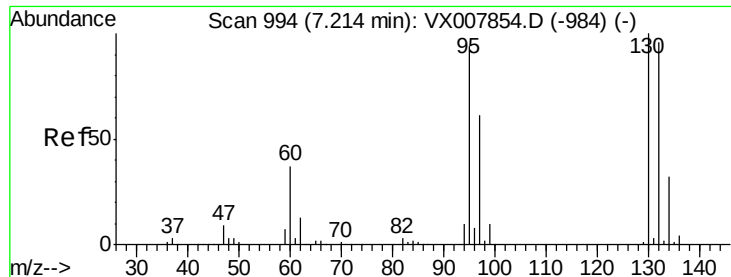


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 32.124 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX007975.D

Acq: 11 Mar 2019 17:37

Instrument :

MSVOA_X

ClientSampleId :

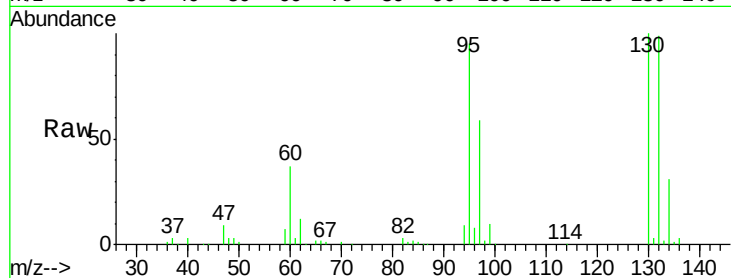
RE131D1-20190305DL

Tot Ion:130 Resp: 87977

Ion Ratio Lower Upper

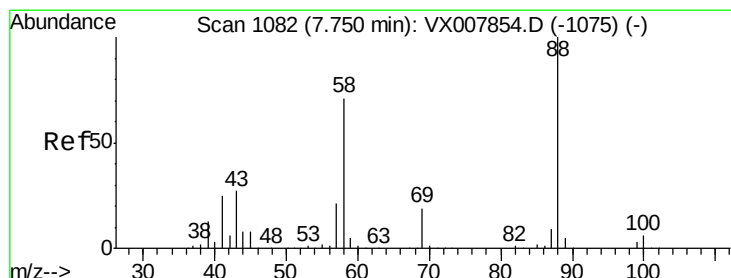
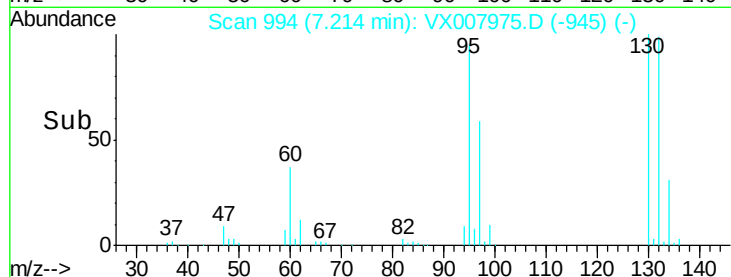
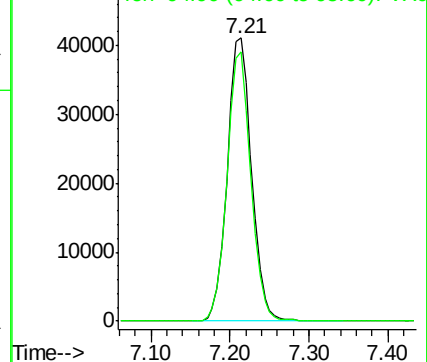
130 100

95 95.3 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: 5.370 ug/l

RT: 7.77 min Scan# 1085

Delta R.T. 0.02 min

Lab File: VX007975.D

Acq: 11 Mar 2019 17:37

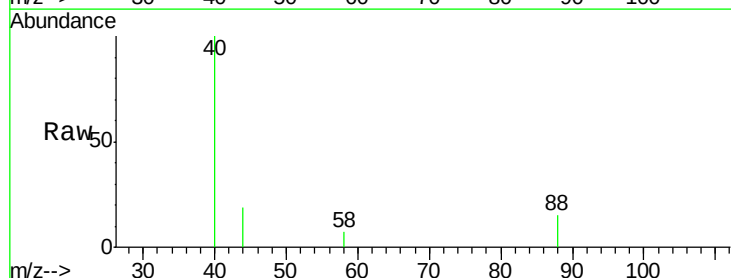
Tgt Ion: 88 Resp: 340

Ion Ratio Lower Upper

88 100

43 6.8 25.1 37.7#

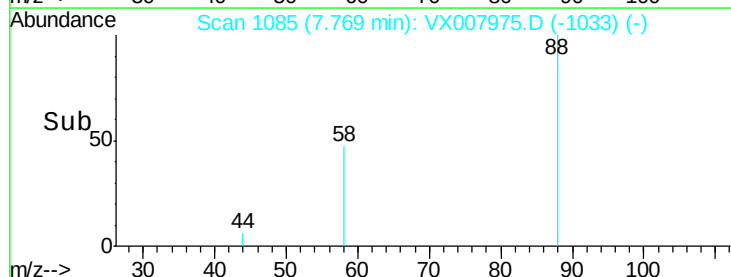
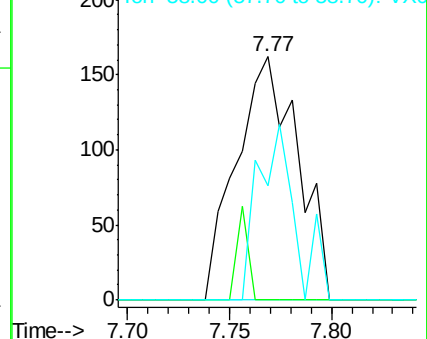
58 43.8 57.8 86.6#

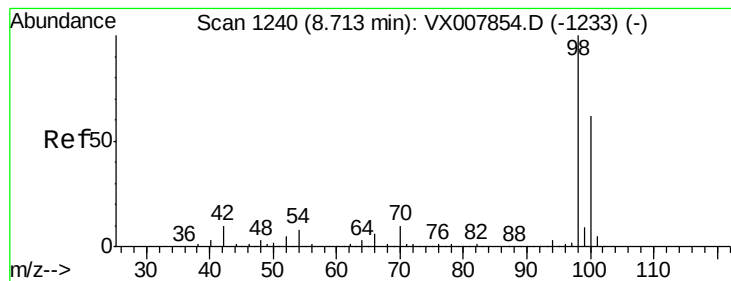


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.582 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007975.D

Acq: 11 Mar 2019 17:37

Instrument :

MSVOA_X

ClientSampleId :

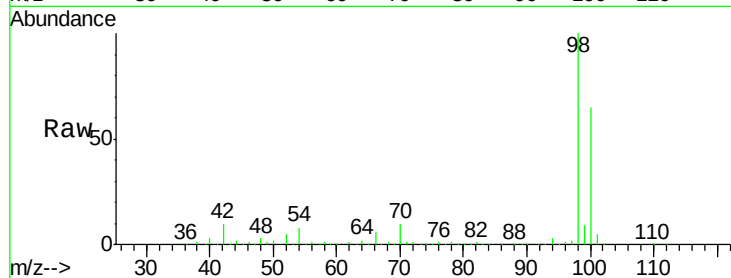
RE131D1-20190305DL

Tot Ion: 98 Resp: 446724

Ion Ratio Lower Upper

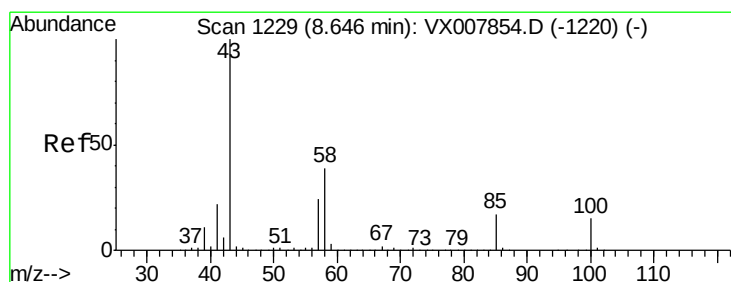
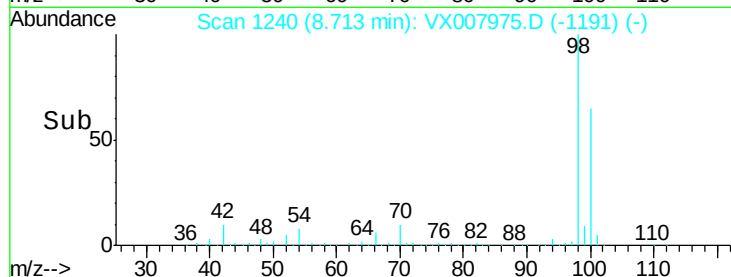
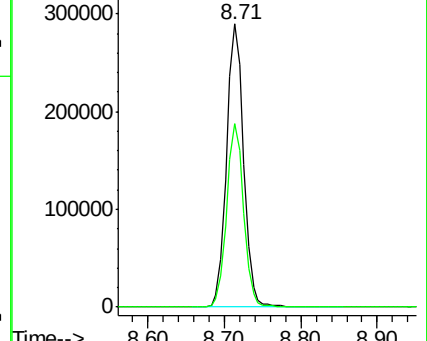
98 100

100 64.8 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: 0.458 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.07 min

Lab File: VX007975.D

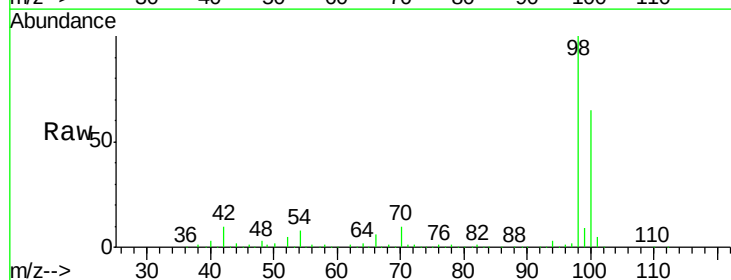
Acq: 11 Mar 2019 17:37

Tgt Ion: 43 Resp: 1727

Ion Ratio Lower Upper

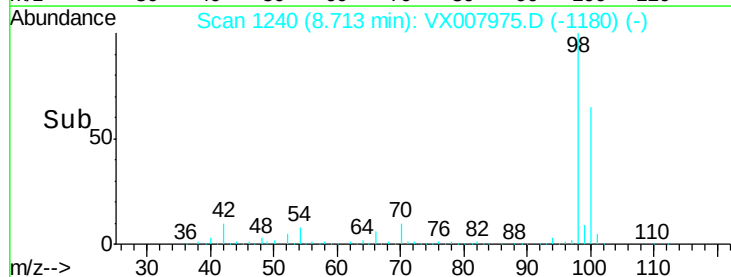
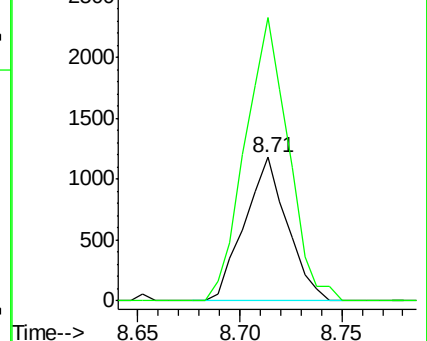
43 100

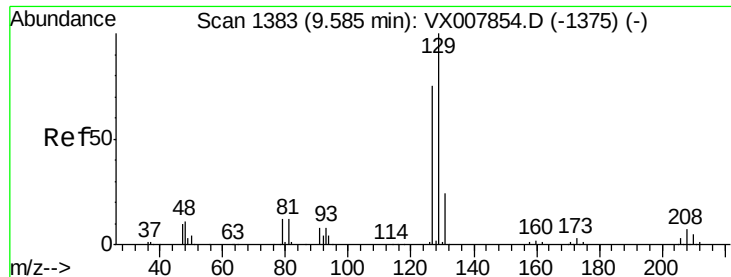
58 198.9 31.3 46.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#60

Dibromochloromethane

Concen: 2.216 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.25 min

Lab File: VX007975.D

Acq: 11 Mar 2019 17:37

Instrument :

MSVOA_X

ClientSampleId :

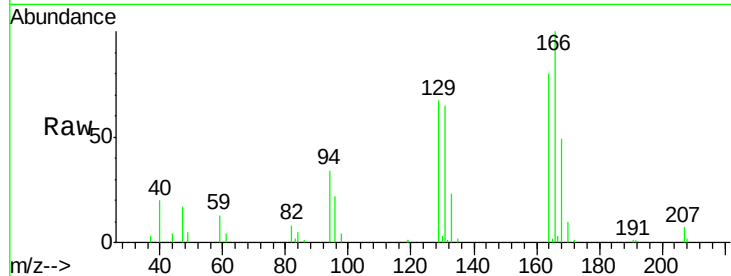
RE131D1-20190305DL

Tot Ion:129 Resp: 5690

Ion Ratio Lower Upper

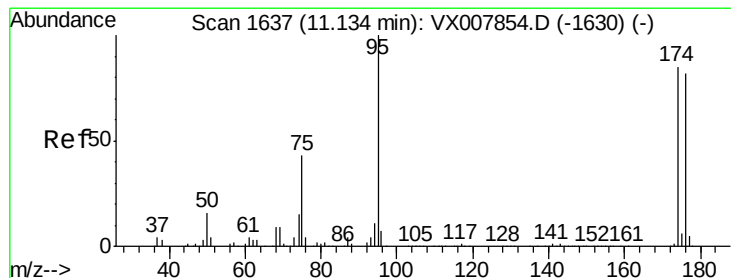
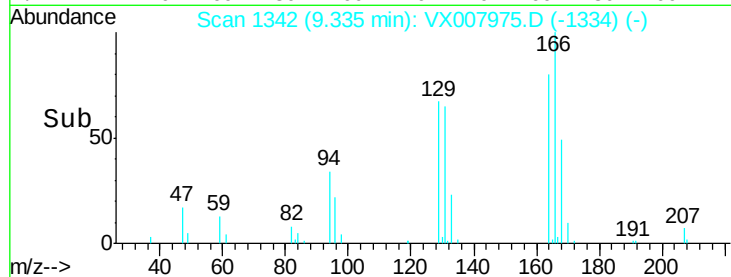
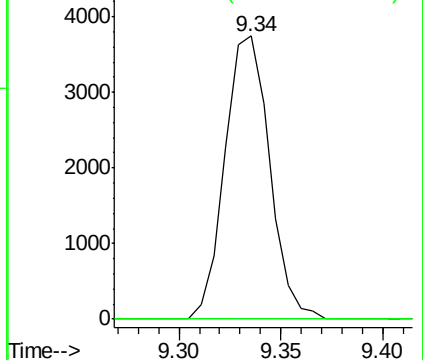
129 100

127 0.0 38.3 114.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 55.571 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007975.D

Acq: 11 Mar 2019 17:37

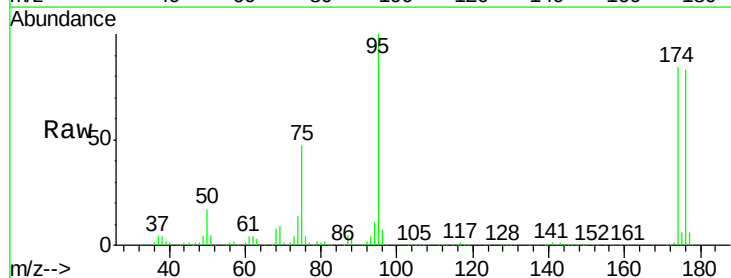
Tgt Ion: 95 Resp: 168736

Ion Ratio Lower Upper

95 100

174 91.9 0.0 182.8

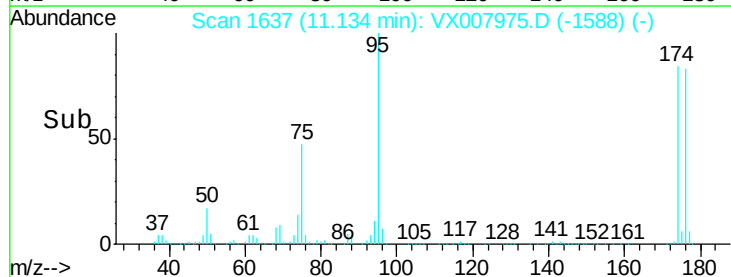
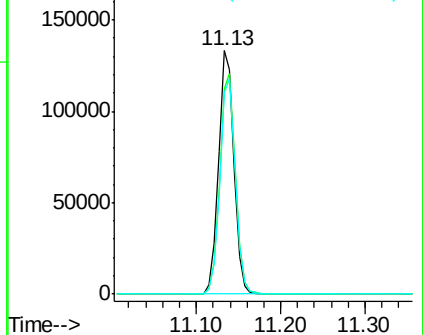
176 89.2 0.0 178.0

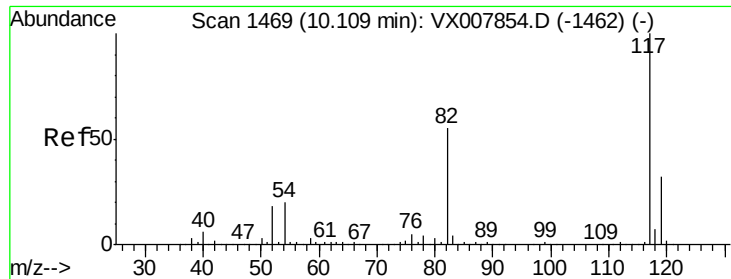


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

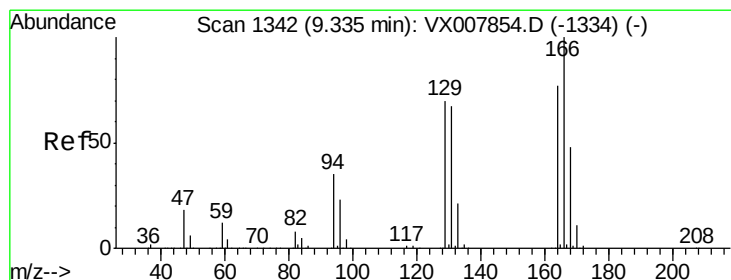
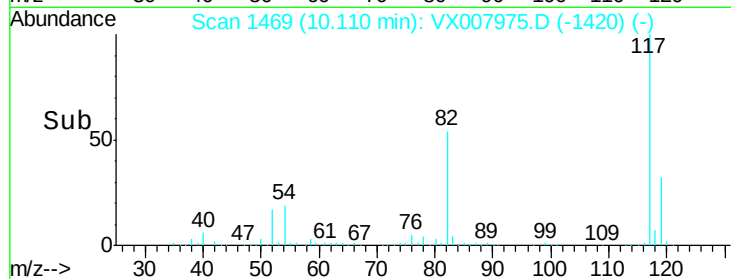
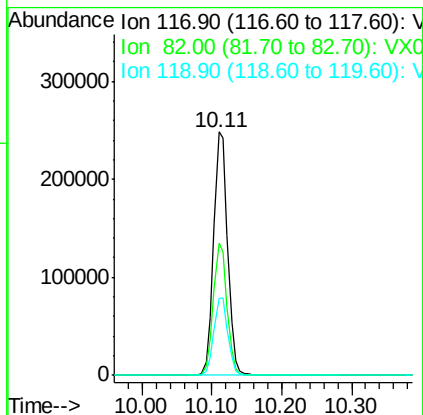
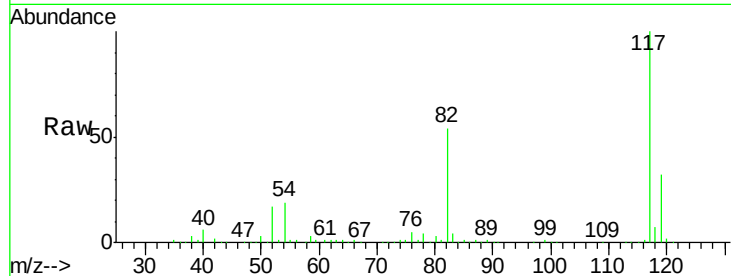




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX007975.D
Acq: 11 Mar 2019 17:37

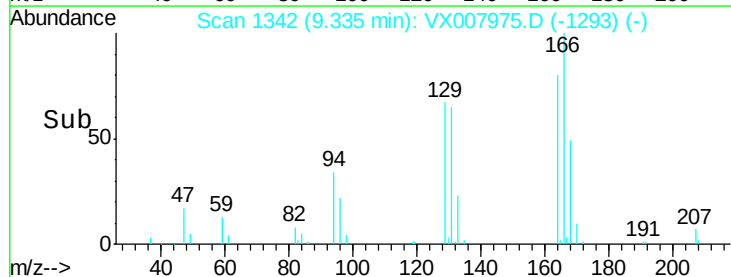
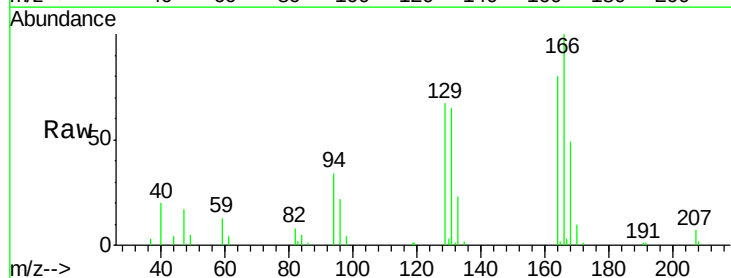
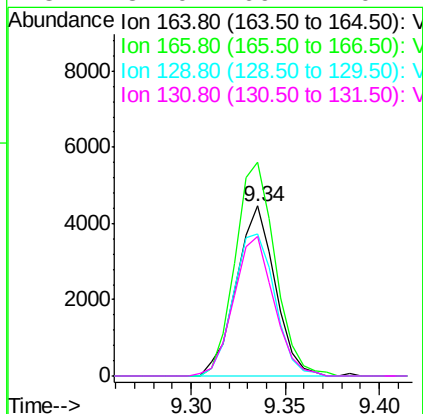
Instrument :
MSVOA_X
ClientSampleId :
RE131D1-20190305DL

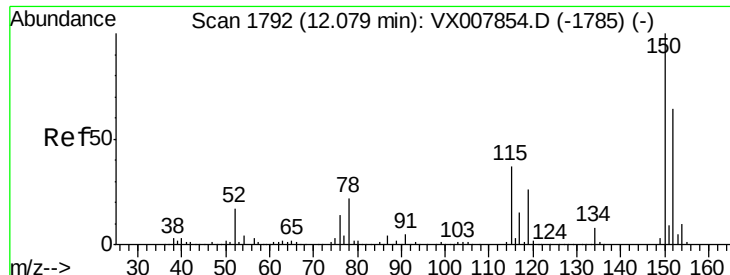
Tot Ion:117 Resp: 345757
Ion Ratio Lower Upper
117 100
82 54.1 44.3 66.5
119 31.8 25.3 37.9



#64
Tetrachloroethene
Concen: 2.226 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX007975.D
Acq: 11 Mar 2019 17:37

Tgt Ion:164 Resp: 6377
Ion Ratio Lower Upper
164 100
166 125.7 103.4 155.0
129 84.0 72.2 108.4
131 82.0 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: VX007975.D

Acq: 11 Mar 2019 17:37

Instrument :

MSVOA_X

ClientSampleId :

RE131D1-20190305DL

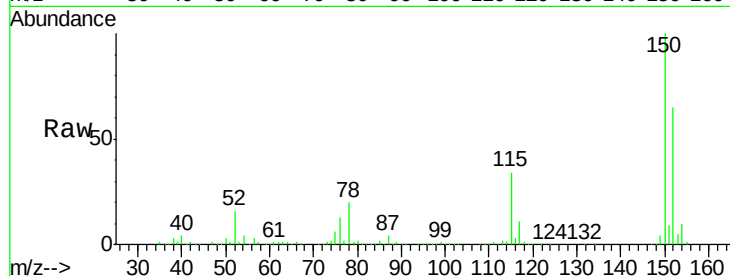
Tot Ion:152 Resp: 183609

Ion Ratio Lower Upper

152 100

115 54.3 38.6 115.7

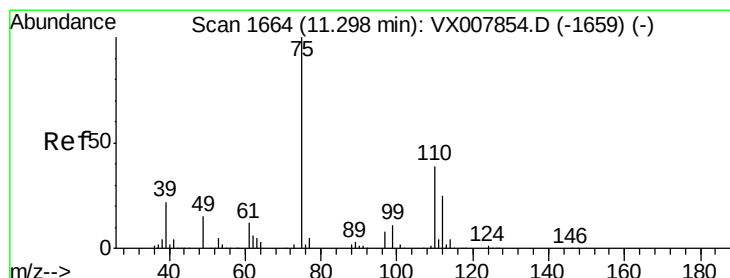
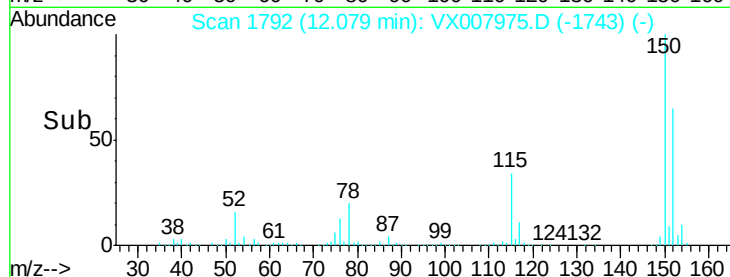
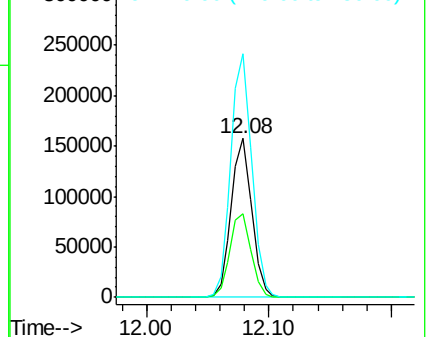
150 156.2 0.0 348.4



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: 19.908 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007975.D

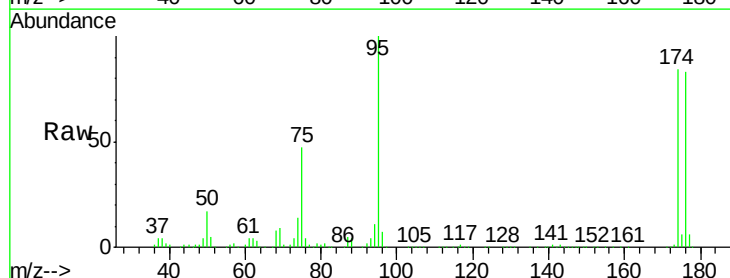
Acq: 11 Mar 2019 17:37

Tgt Ion: 75 Resp: 76702

Ion Ratio Lower Upper

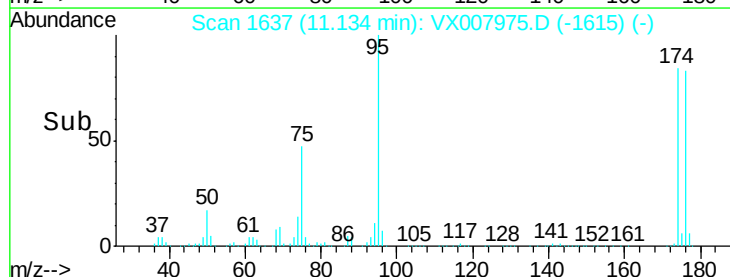
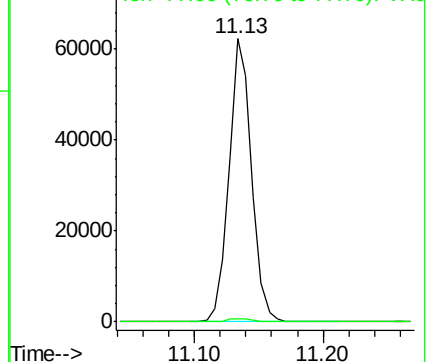
75 100

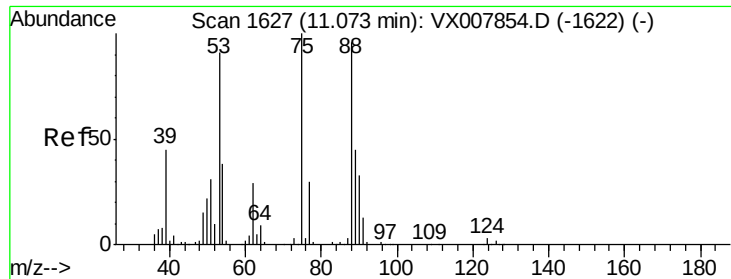
77 1.3 18.9 56.7#



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: 63.635 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007975.D

Acq: 11 Mar 2019 17:37

Instrument :

MSVOA_X

ClientSampleId :

RE131D1-20190305DL

Tot Ion: 75 Resp: 76702

Ion Ratio Lower Upper

75 100

53 0.0 76.1 114.1#

89 0.0 36.3 54.5#

