

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100818\
 Data File : VX005153.D
 Acq On : 09 Oct 2018 03:37
 Operator : JC/MD
 Sample : J5189-08DL 50X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE-105D2-20180927DL

Quant Time: Oct 09 06:03:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	193781	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	296817	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	296410	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	166907	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	149010	53.83	ug/l	0.00
Spiked Amount			Recovery	=	107.66%	
35) Dibromofluoromethane	5.51	113	129555	51.50	ug/l	0.00
Spiked Amount			Recovery	=	103.00%	
50) Toluene-d8	8.71	98	437499	52.31	ug/l	0.00
Spiked Amount			Recovery	=	104.62%	
62) 4-Bromofluorobenzene	11.14	95	155695	51.68	ug/l	0.00
Spiked Amount			Recovery	=	103.36%	

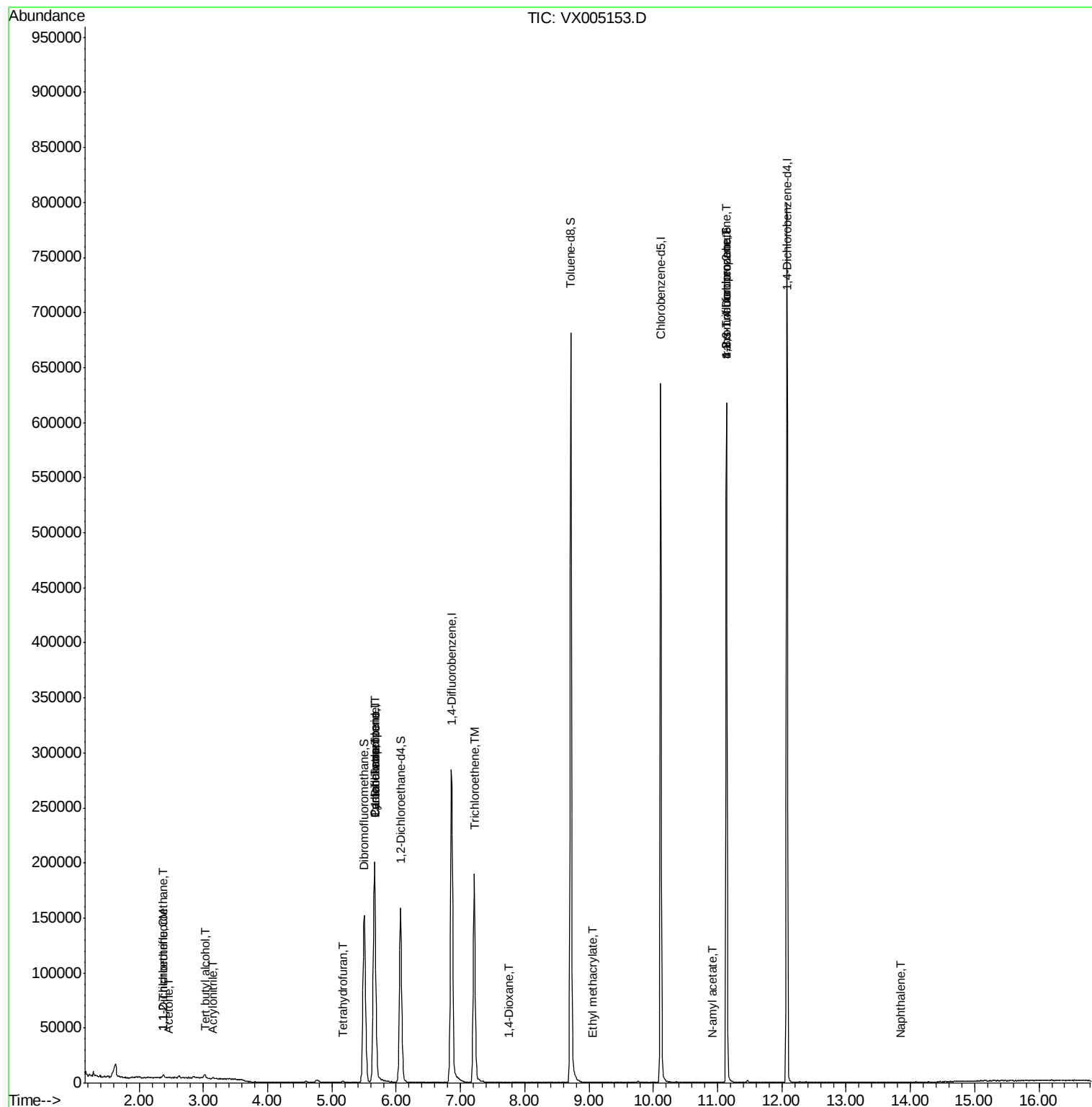
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.72	64	140	Below Cal	#	48
9) 1,1,2-Trichlorotrifluoroet	2.38	101	727	0.343	ug/l	98
11) Tert butyl alcohol	3.03	59	2532	3.271	ug/l #	86
12) 1,1-Dichloroethene	2.37	96	478	0.228	ug/l #	78
15) Acrylonitrile	3.14	53	382	0.224	ug/l #	83
16) Acetone	2.45	43	560	0.347	ug/l #	31
20) Methylene Chloride	2.85	84	414	Below Cal	#	92
29) Tetrahydrofuran	5.16	42	488	0.330	ug/l #	81
31) Cyclohexane	5.67	56	3722	1.057	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	13951	4.065	ug/l #	45
38) Carbon Tetrachloride	5.67	117	17575	4.871	ug/l #	18
44) Trichloroethene	7.21	130	76204	28.849	ug/l	99
49) 1,4-Dioxane	7.76	88	24	0.324	ug/l #	1
56) Ethyl methacrylate	9.07	69	27	2.868	ug/l #	21
74) N-amyl acetate	10.91	43	23	1.752	ug/l #	43
76) 1,2,3-Trichloropropane	11.14	75	77666	20.761	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	131	Below Cal		95
81) trans-1,4-Dichloro-2-buten	11.14	75	77666	56.359	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	138	Below Cal	#	40
95) Naphthalene	13.83	128	203	0.734	ug/l #	69

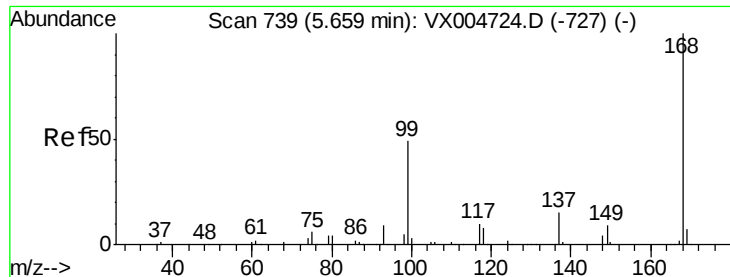
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005153.D

Acq: 09 Oct 2018 03:37

Instrument :

MSVOA_X

ClientSampleId :

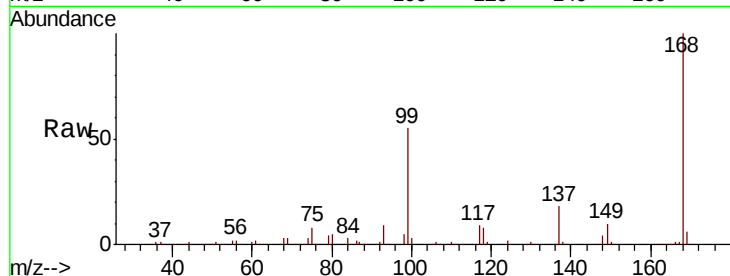
RE-105D2-20180927DL

Tot Ion:168 Resp: 193781

Ion Ratio Lower Upper

168 100

99 54.5 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

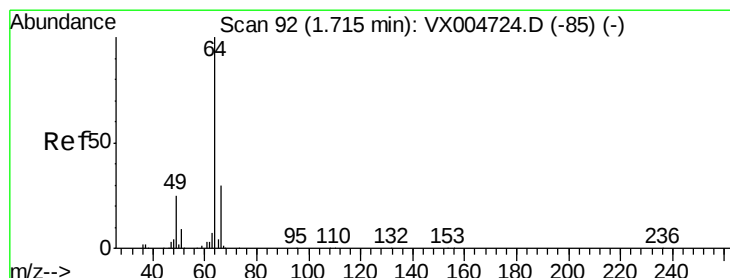
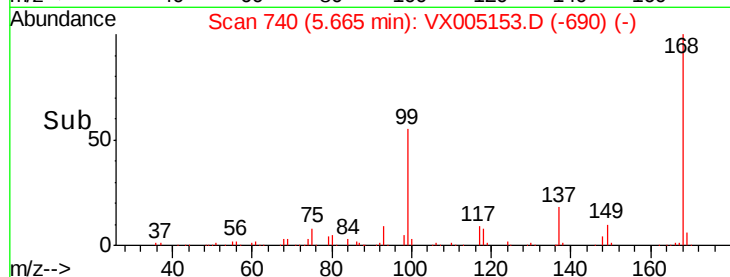
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX005153.D

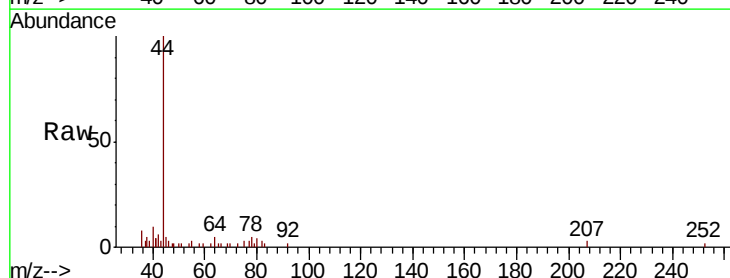
Acq: 09 Oct 2018 03:37

Tgt Ion: 64 Resp: 140

Ion Ratio Lower Upper

64 100

66 1.7 23.8 35.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.72

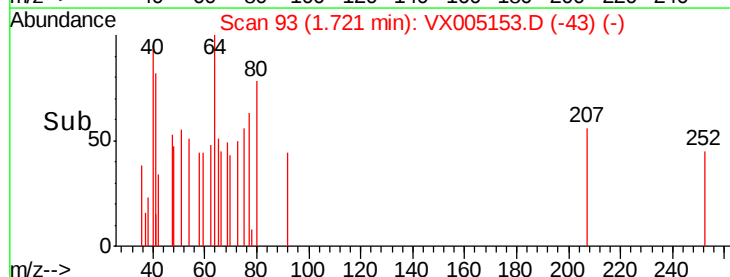
100

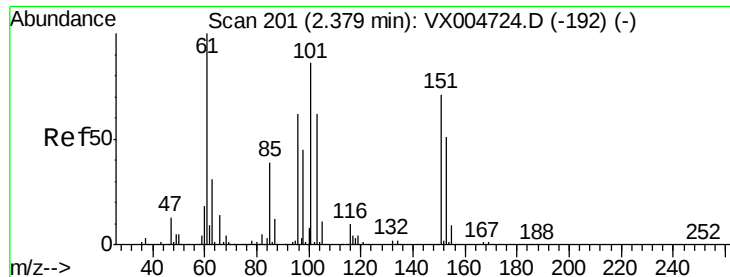
50

0

Time-->

1.70 1.72 1.74





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.343 ug/l

RT: 2.38 min Scan# 201

Delta R.T. -0.00 min

Lab File: VX005153.D

Acq: 09 Oct 2018 03:37

Instrument :

MSVOA_X

ClientSampleId :

RE-105D2-20180927DL

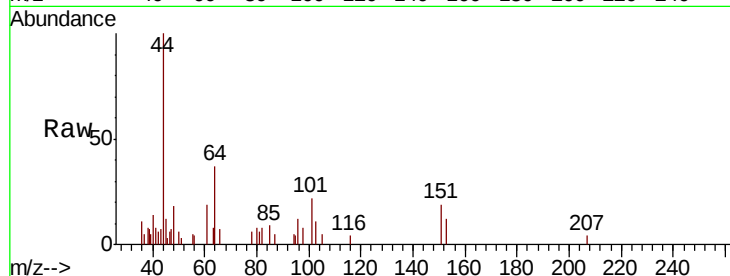
Tot Ion:101 Resp: 727

Ion Ratio Lower Upper

101 100

85 46.9 35.9 53.9

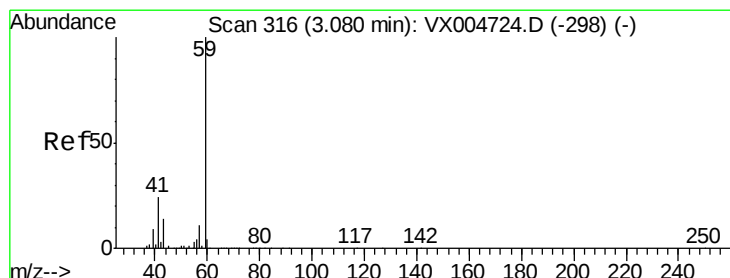
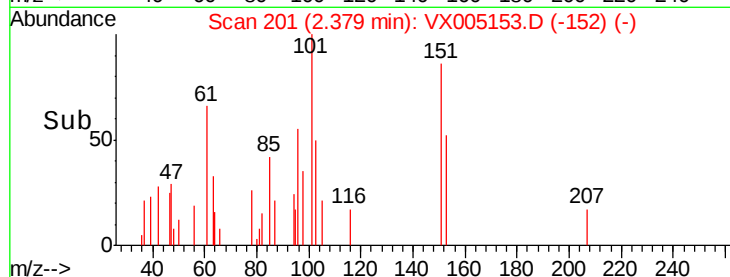
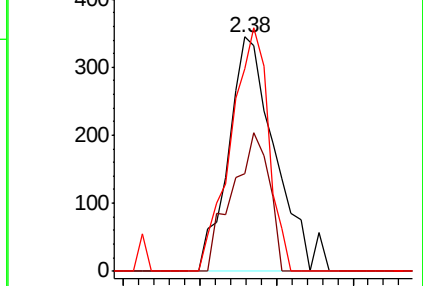
151 84.0 66.6 100.0



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: 3.271 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX005153.D

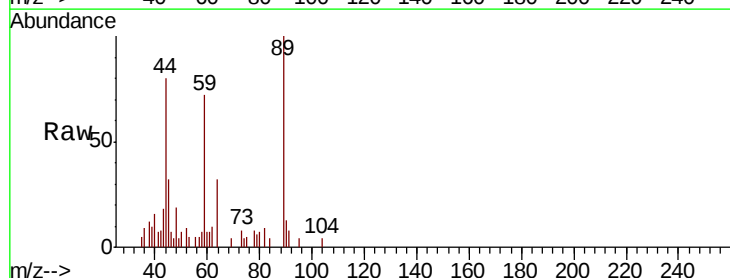
Acq: 09 Oct 2018 03:37

Tgt Ion: 59 Resp: 2532

Ion Ratio Lower Upper

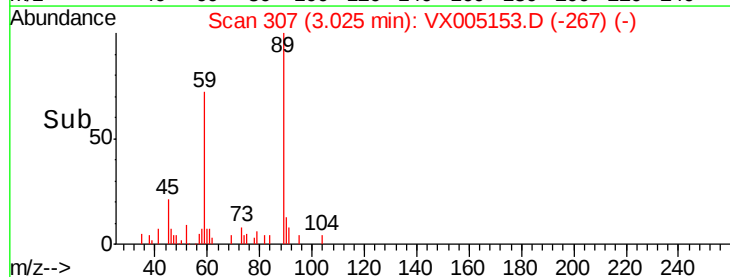
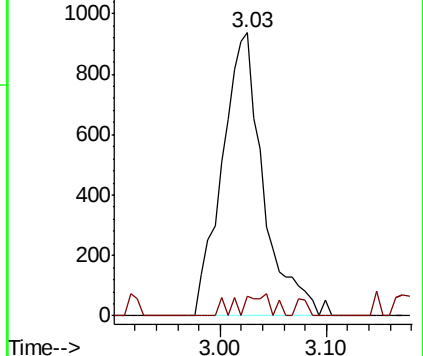
59 100

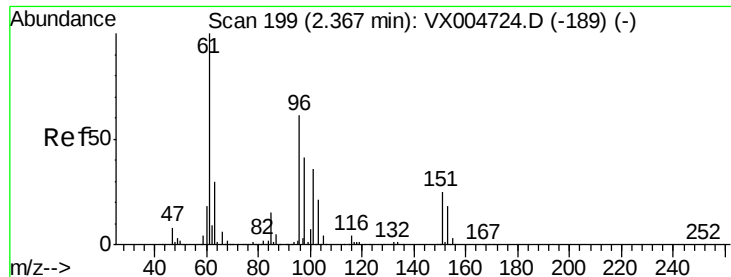
57 5.3 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.228 ug/l

RT: 2.37 min Scan# 199

Delta R.T. -0.00 min

Lab File: VX005153.D

Acq: 09 Oct 2018 03:37

Instrument :

MSVOA_X

ClientSampleId :

RE-105D2-20180927DL

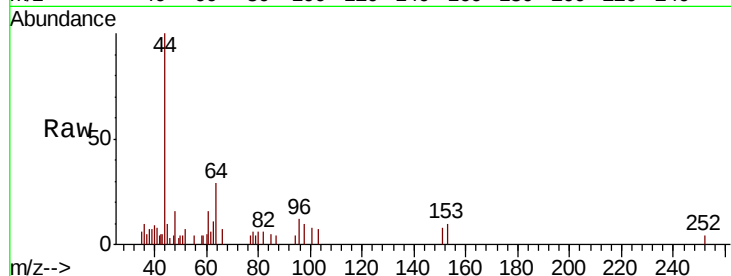
Tot Ion: 96 Resp: 478

Ion Ratio Lower Upper

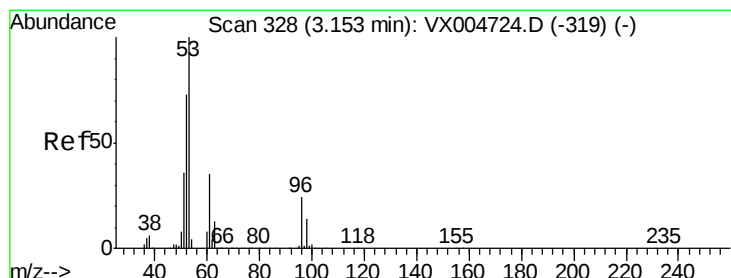
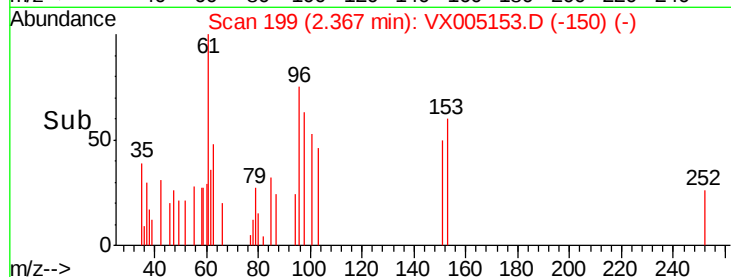
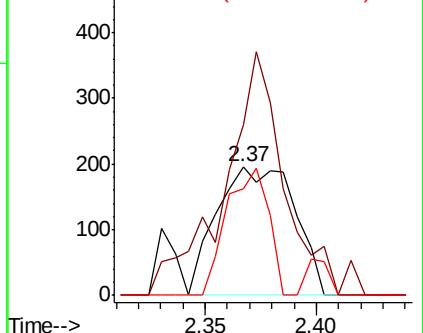
96 100

61 132.7 130.2 195.4

98 83.2 53.4 80.0#



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



#15

Acrylonitrile

Concen: 0.224 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: VX005153.D

Acq: 09 Oct 2018 03:37

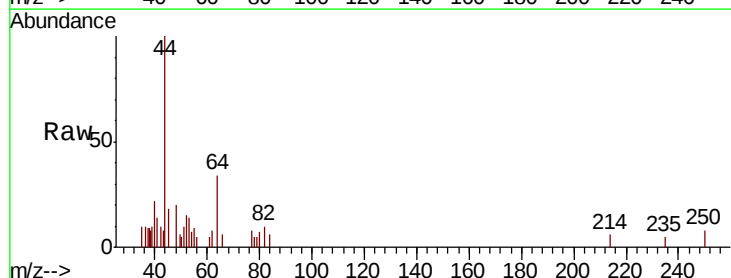
Tgt Ion: 53 Resp: 382

Ion Ratio Lower Upper

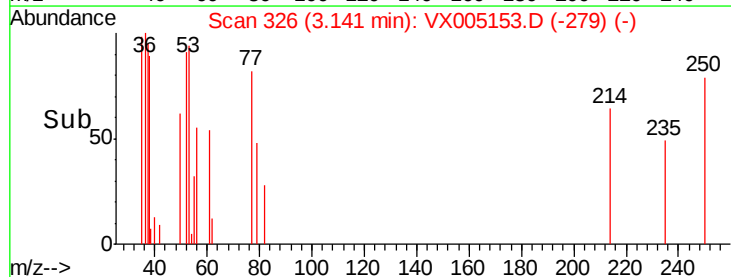
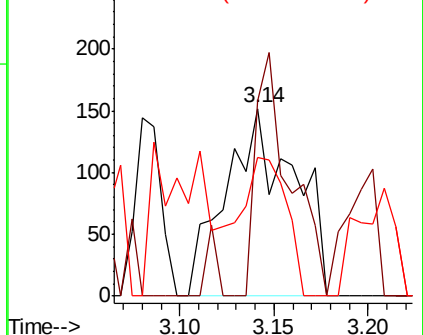
53 100

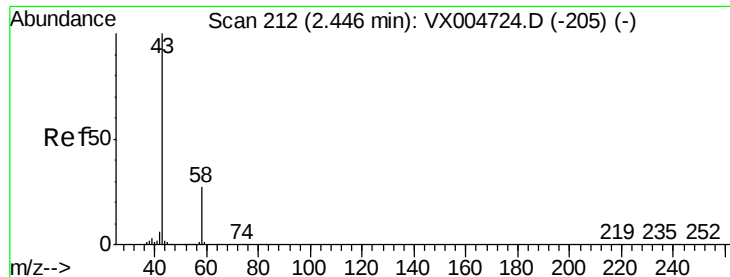
52 65.4 63.0 94.4

51 48.4 28.6 42.8#



Abundance Ion 53.00 (52.70 to 53.70): VX0
Ion 52.00 (51.70 to 52.70): VX0
Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 0.347 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX005153.D

Acq: 09 Oct 2018 03:37

Instrument :

MSVOA_X

ClientSampleId :

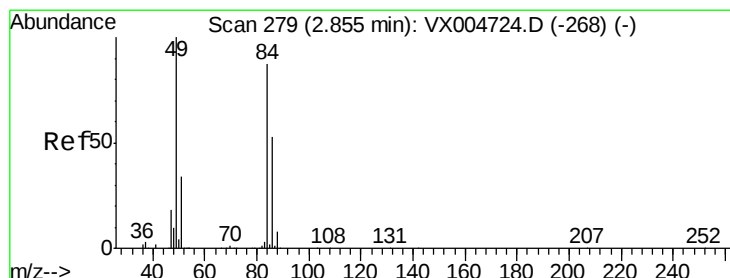
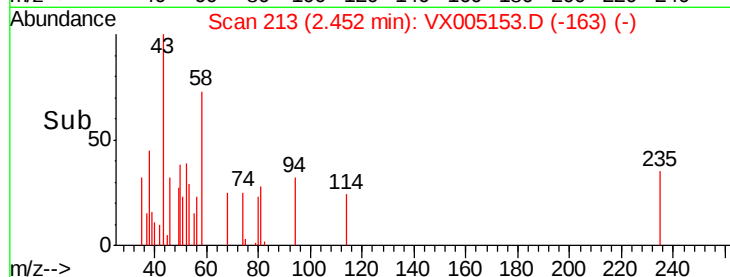
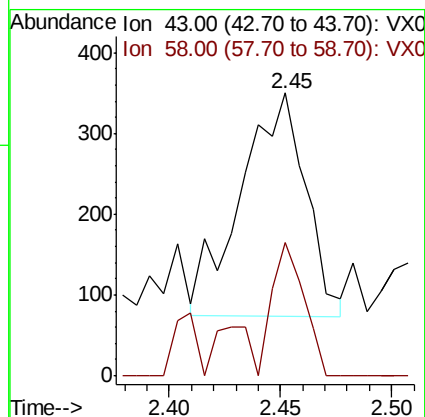
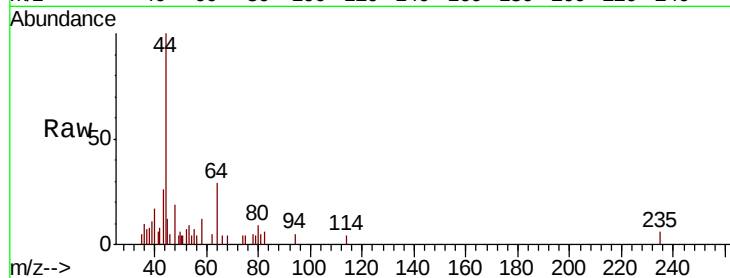
RE-105D2-20180927DL

Tot Ion: 43 Resp: 560

Ion Ratio Lower Upper

43 100

58 63.2 21.8 32.6#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX005153.D

Acq: 09 Oct 2018 03:37

Tgt Ion: 84 Resp: 414

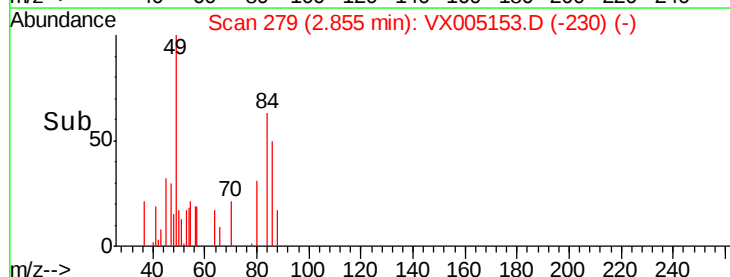
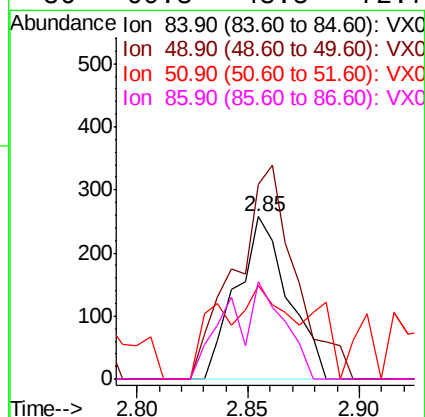
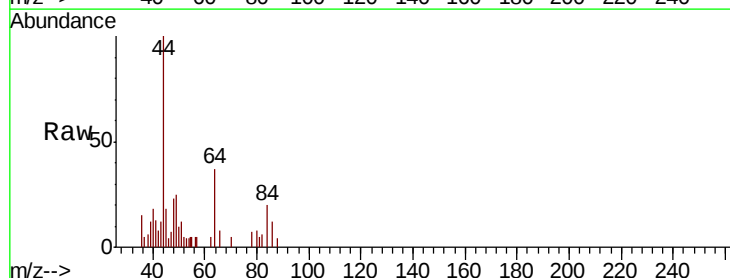
Ion Ratio Lower Upper

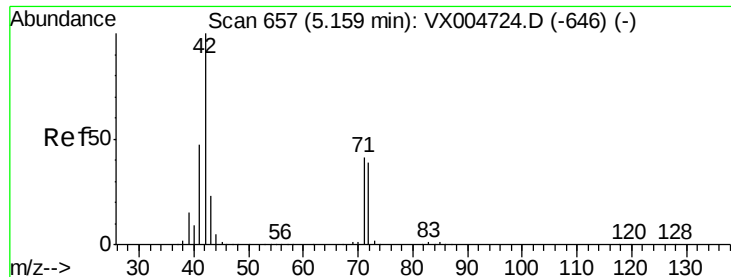
84 100

49 120.2 92.3 138.5

51 57.6 31.8 47.6#

86 60.3 48.5 72.7

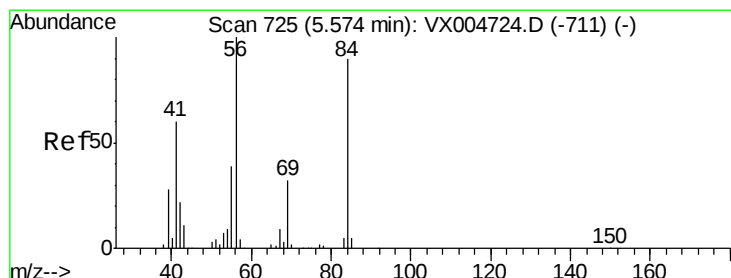
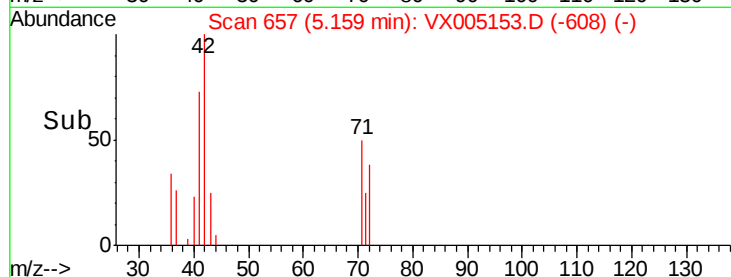
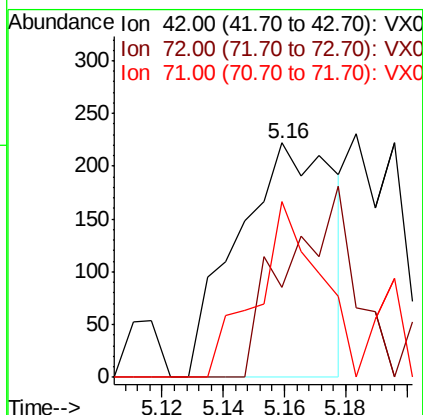
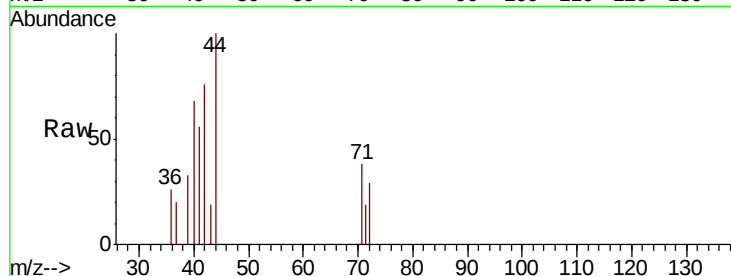




#29
Tetrahydrofuran
Concen: 0.330 ug/l
RT: 5.16 min Scan# 657
Delta R.T. -0.00 min
Lab File: VX005153.D
Acq: 09 Oct 2018 03:37

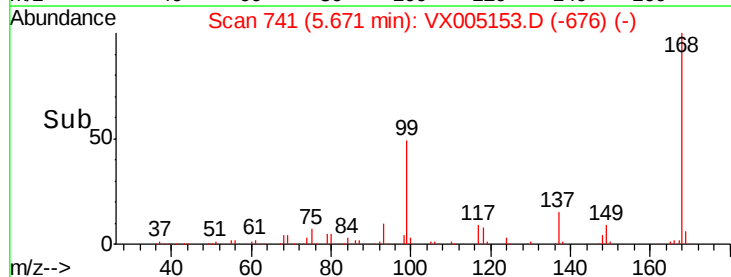
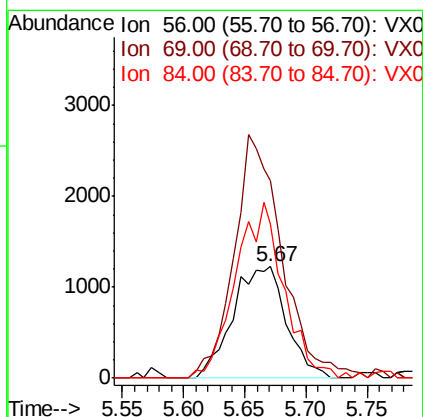
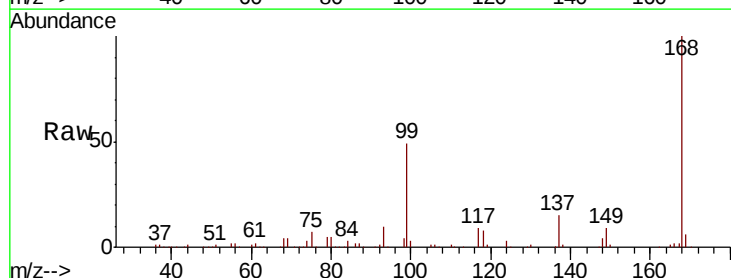
Instrument :
MSVOA_X
ClientSampleId :
RE-105D2-20180927DL

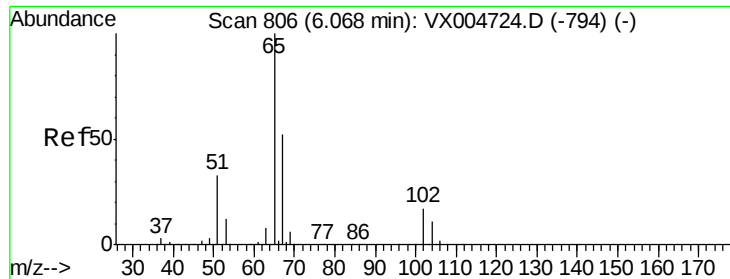
Tot Ion: 42 Resp: 488
Ion Ratio Lower Upper
42 100
72 56.8 33.7 50.5#
71 48.8 32.2 48.4#



#31
Cyclohexane
Concen: 1.057 ug/l
RT: 5.67 min Scan# 741
Delta R.T. 0.10 min
Lab File: VX005153.D
Acq: 09 Oct 2018 03:37

Tgt Ion: 56 Resp: 3722
Ion Ratio Lower Upper
56 100
69 176.7 25.9 38.9#
84 138.0 71.9 107.9#





#33

1,2-Dichloroethane-d4

Concen: 53.830 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX005153.D

Acq: 09 Oct 2018 03:37

Instrument :

MSVOA_X

ClientSampleId :

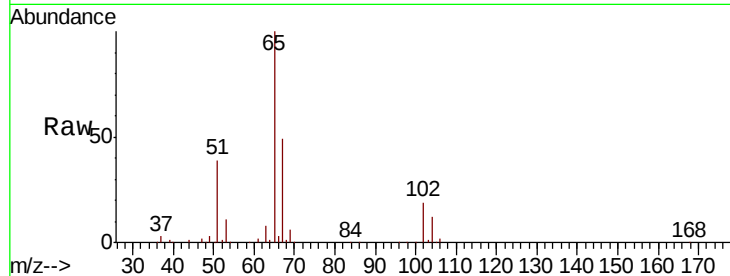
RE-105D2-20180927DL

Tot Ion: 65 Resp: 149010

Ion Ratio Lower Upper

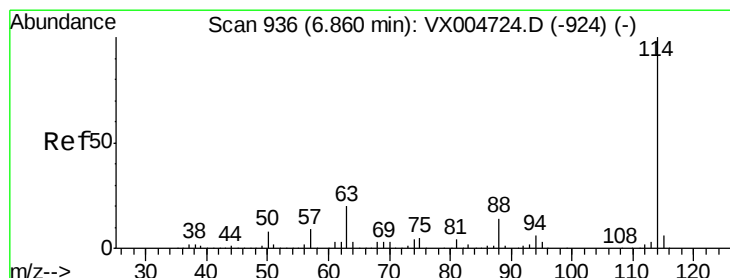
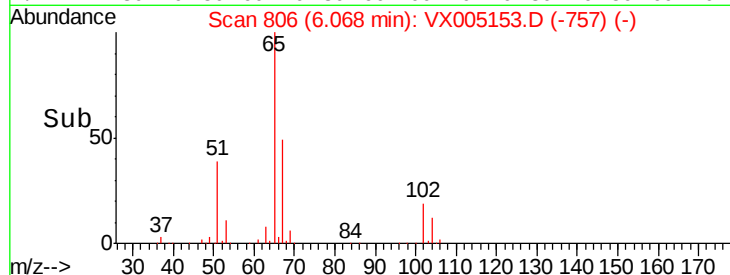
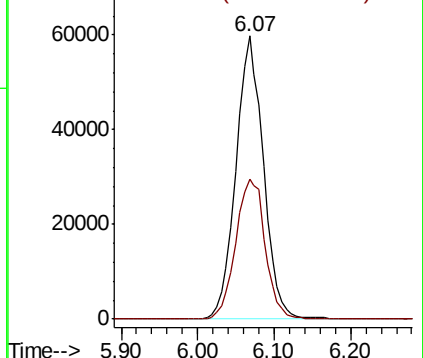
65 100

67 53.1 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX005153.D

Acq: 09 Oct 2018 03:37

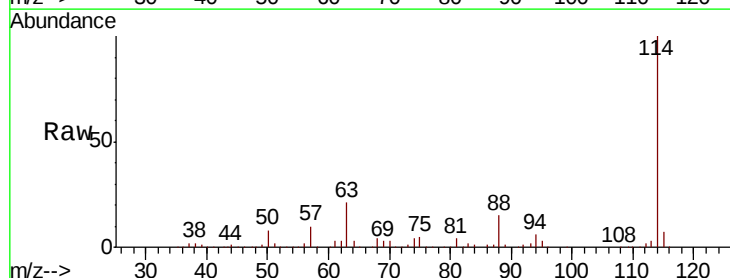
Tgt Ion: 114 Resp: 296817

Ion Ratio Lower Upper

114 100

63 21.2 0.0 39.8

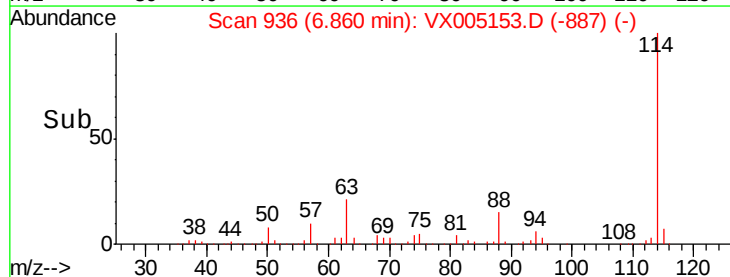
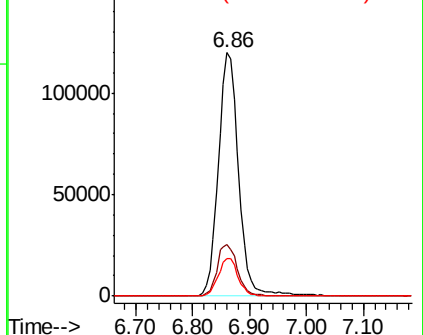
88 15.4 0.0 27.0

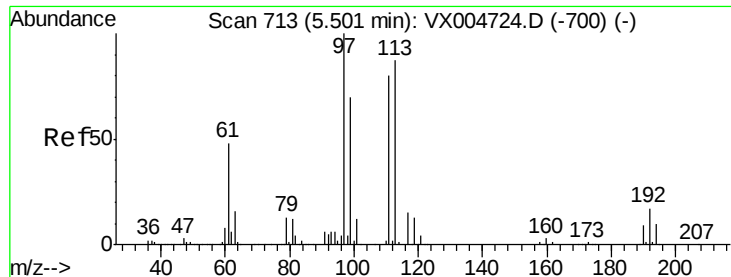


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 51.501 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX005153.D

Acq: 09 Oct 2018 03:37

Instrument :

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ClientSampleId :

RE-105D2-20180927DL

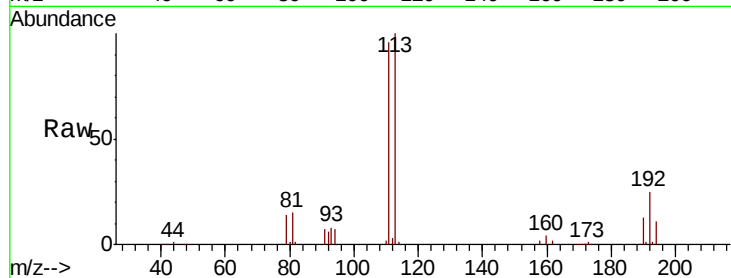
Tot Ion:113 Resp: 129555

Ion Ratio Lower Upper

113 100

111 99.8 77.0 115.4

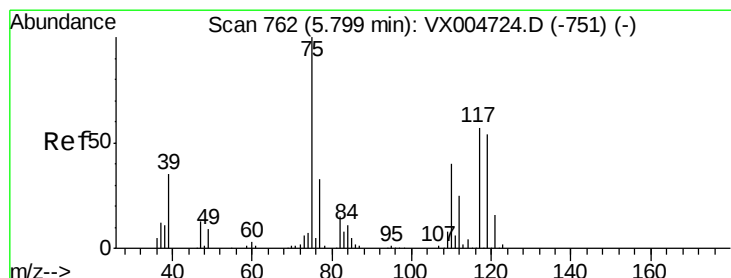
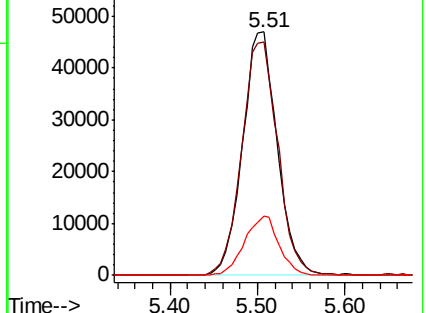
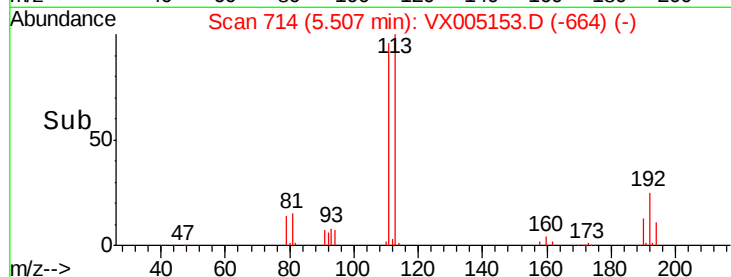
192 24.2 17.0 25.6



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.065 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005153.D

Acq: 09 Oct 2018 03:37

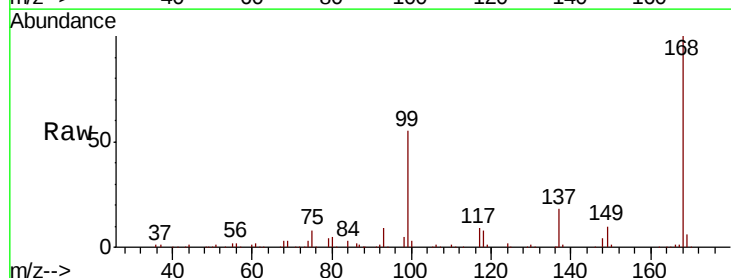
Tgt Ion: 75 Resp: 13951

Ion Ratio Lower Upper

75 100

110 8.1 20.0 59.9#

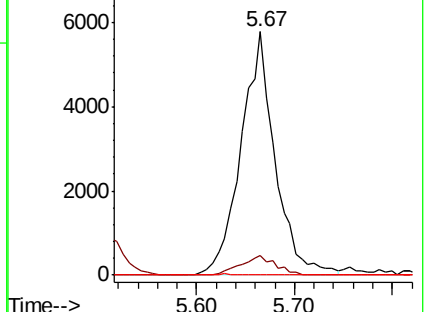
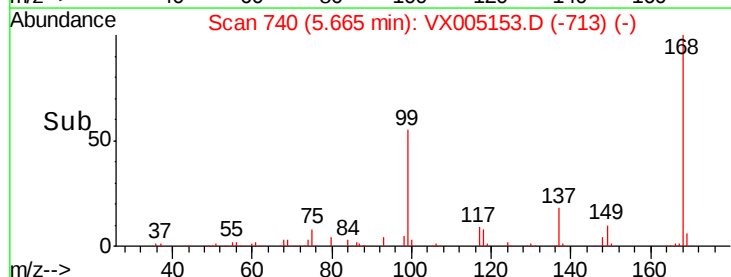
77 0.0 27.1 40.7#

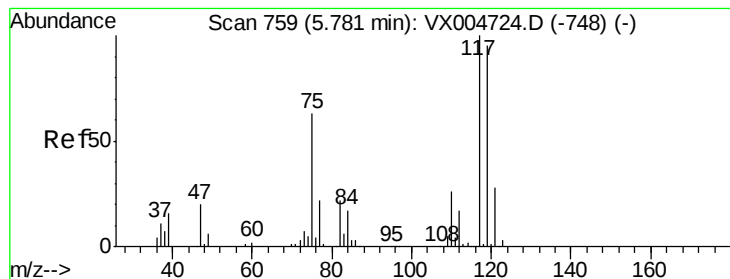


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 4.871 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005153.D

Acq: 09 Oct 2018 03:37

Instrument :

MSVOA_X

ClientSampleId :

RE-105D2-20180927DL

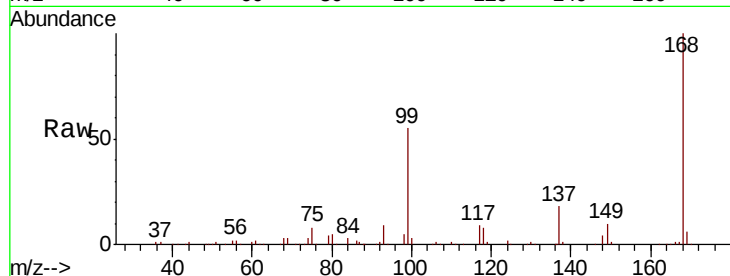
Tot Ion:117 Resp: 17575

Ion Ratio Lower Upper

117 100

119 7.1 75.2 112.8#

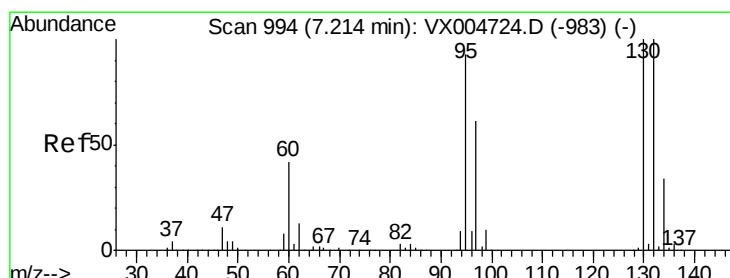
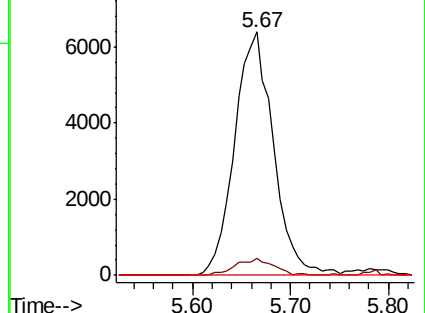
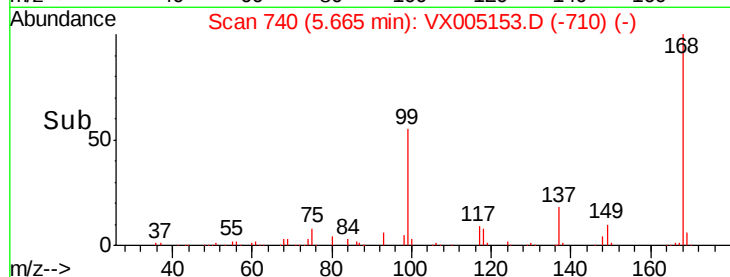
121 0.0 22.5 33.7#



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



#44

Trichloroethene

Concen: 28.849 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX005153.D

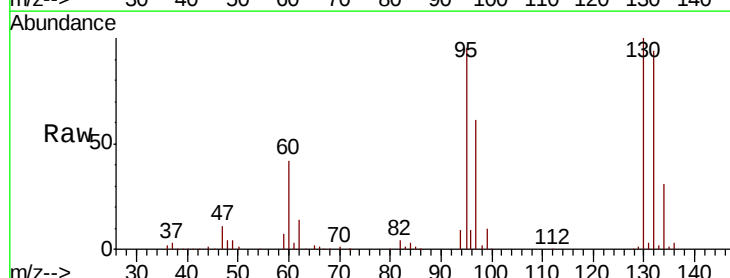
Acq: 09 Oct 2018 03:37

Tgt Ion:130 Resp: 76204

Ion Ratio Lower Upper

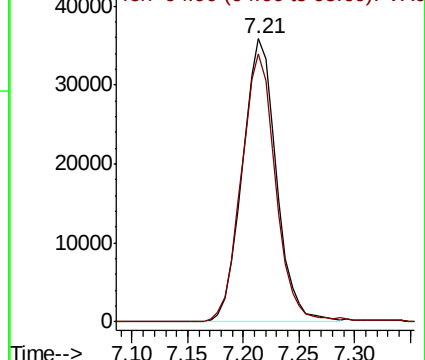
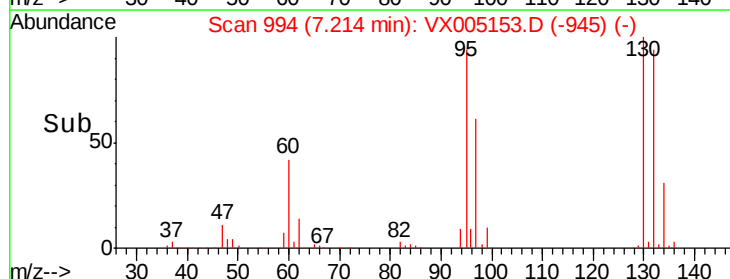
130 100

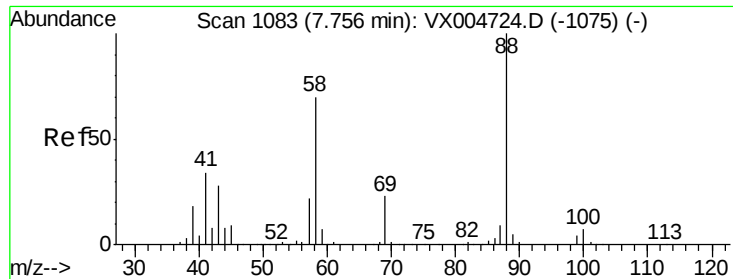
95 94.6 0.0 186.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

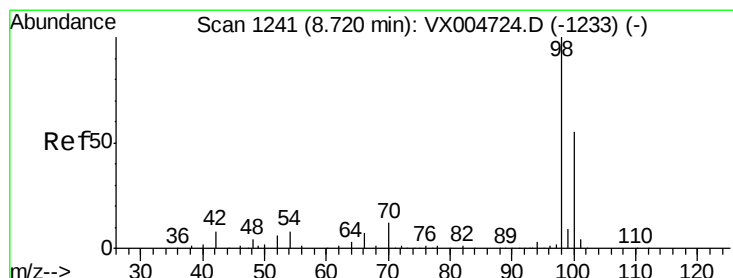
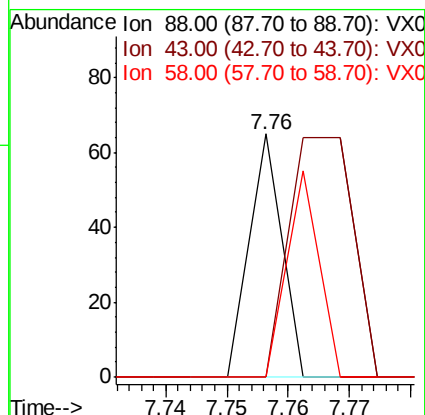
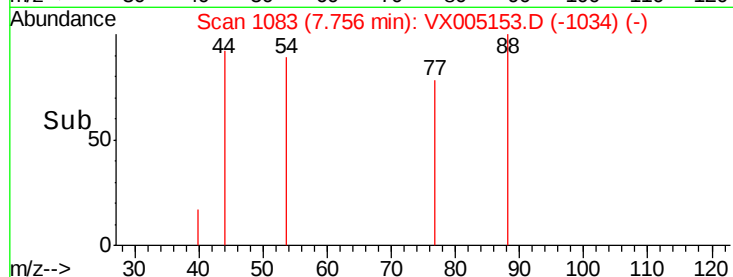
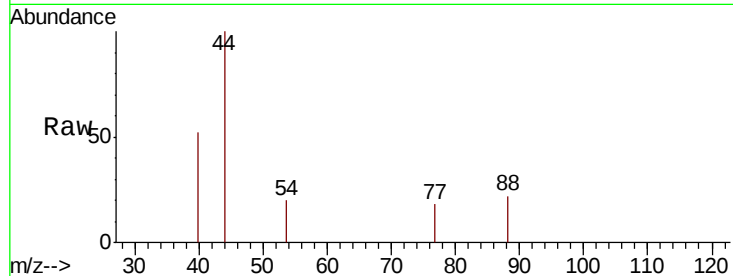




#49
1,4-Dioxane
Concen: 0.324 ug/l
RT: 7.76 min Scan# 1083
Delta R.T. -0.00 min
Lab File: VX005153.D
Acq: 09 Oct 2018 03:37

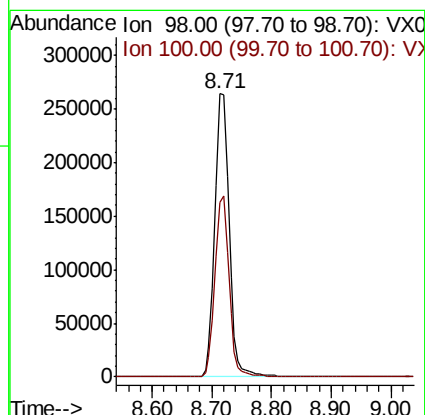
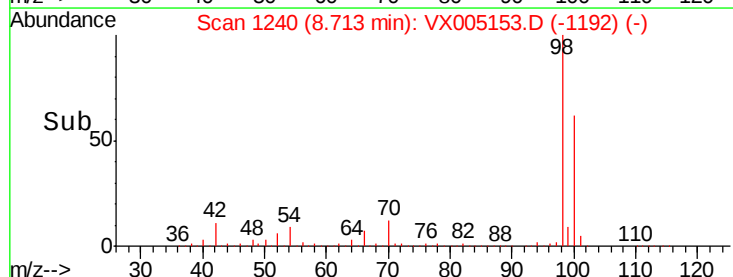
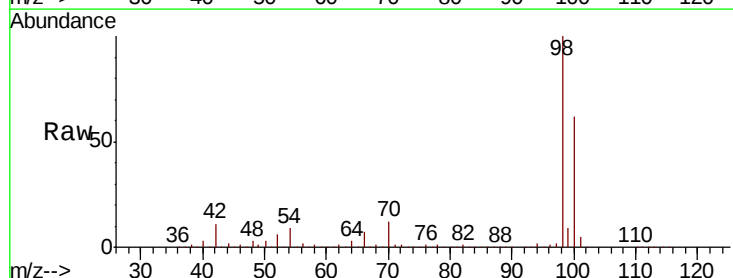
Instrument :
MSVOA_X
ClientSampleId :
RE-105D2-20180927DL

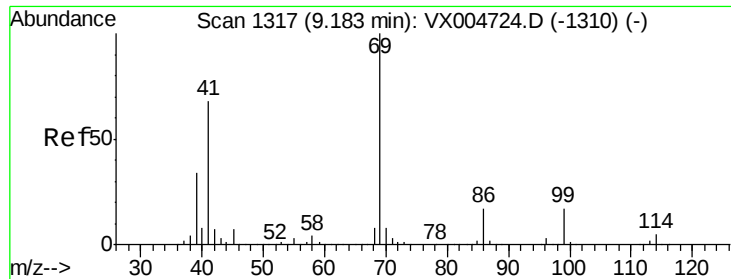
Tot Ion: 88 Resp: 24
Ion Ratio Lower Upper
88 100
43 195.8 25.1 37.7#
58 83.3 56.2 84.2



#50
Toluene-d8
Concen: 52.314 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.01 min
Lab File: VX005153.D
Acq: 09 Oct 2018 03:37

Tgt Ion: 98 Resp: 437499
Ion Ratio Lower Upper
98 100
100 62.9 51.9 77.9





#56

Ethyl methacrylate

Concen: 2.868 ug/l

RT: 9.07 min Scan# 1298

Delta R.T. -0.12 min

Lab File: VX005153.D

Acq: 09 Oct 2018 03:37

Instrument :

MSVOA_X

ClientSampleId :

RE-105D2-20180927DL

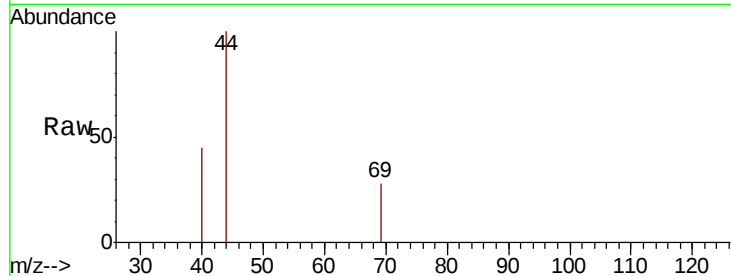
Tot Ion: 69 Resp: 27

Ion Ratio Lower Upper

69 100

41 0.0 56.9 85.3#

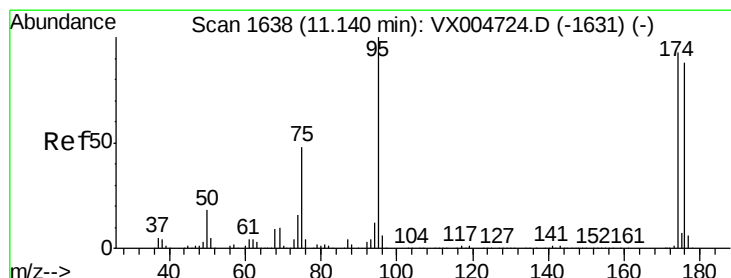
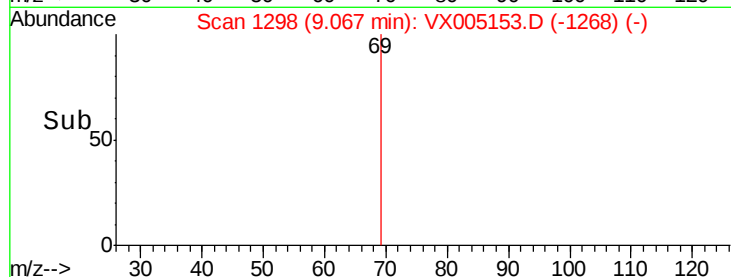
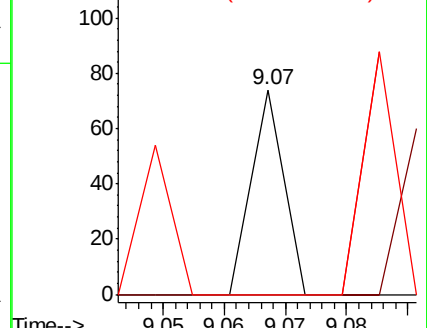
39 74.1 28.4 42.6#



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#62

4-Bromofluorobenzene

Concen: 51.678 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005153.D

Acq: 09 Oct 2018 03:37

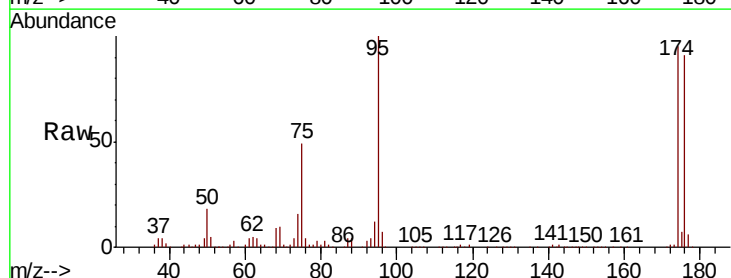
Tgt Ion: 95 Resp: 155695

Ion Ratio Lower Upper

95 100

174 93.7 0.0 185.0

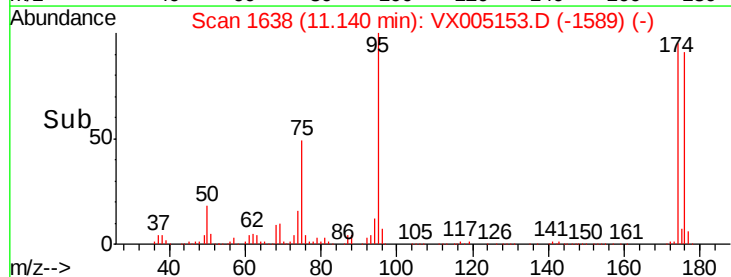
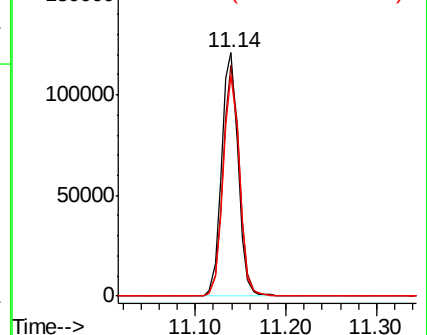
176 90.0 0.0 180.2

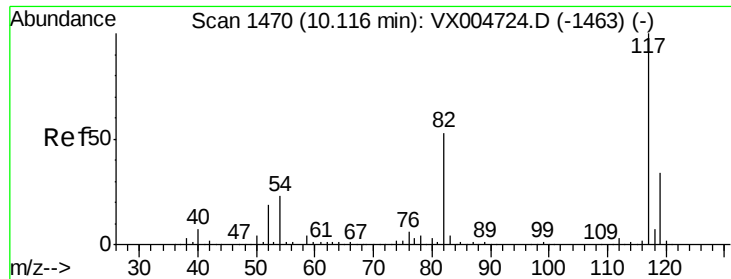


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

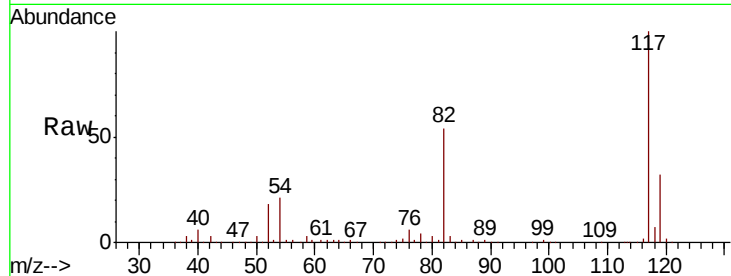




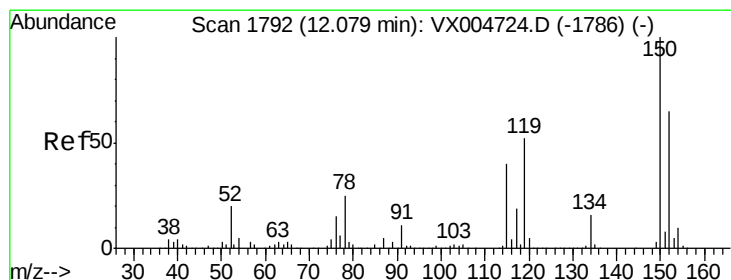
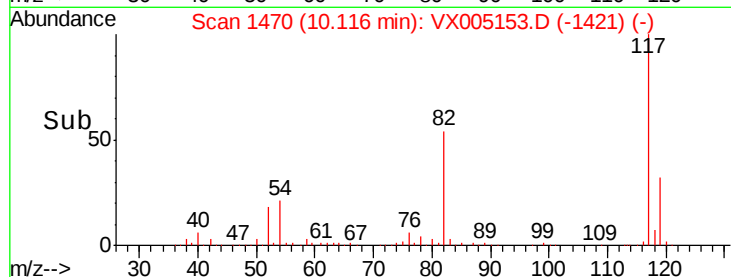
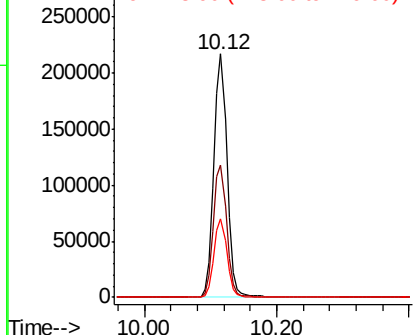
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX005153.D
Acq: 09 Oct 2018 03:37

Instrument :
MSVOA_X
ClientSampleId :
RE-105D2-20180927DL

Tot Ion:117 Resp: 296410
Ion Ratio Lower Upper
117 100
82 54.1 42.2 63.4
119 32.1 27.4 41.0

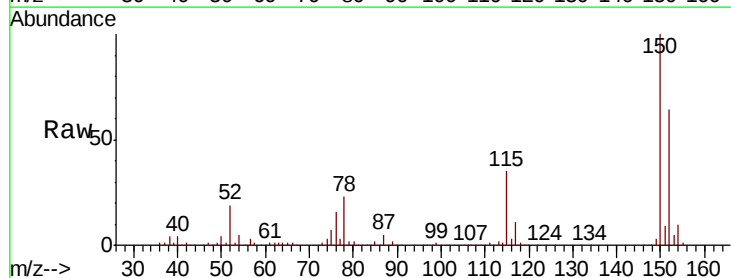


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

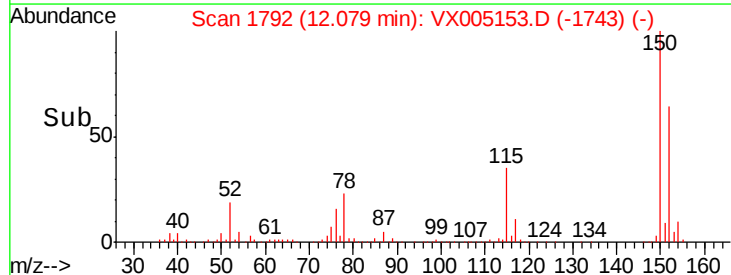
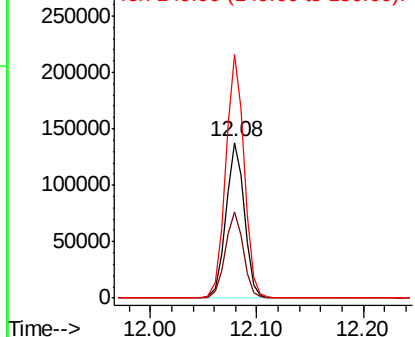


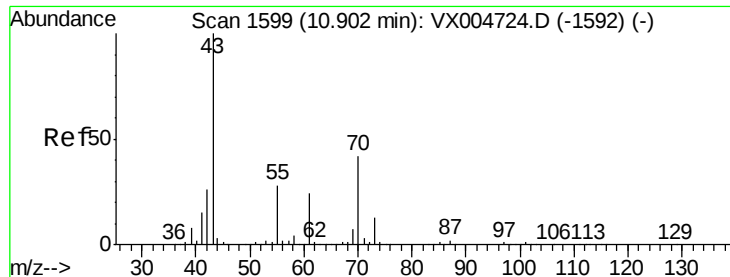
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005153.D
Acq: 09 Oct 2018 03:37

Tgt Ion:152 Resp: 166907
Ion Ratio Lower Upper
152 100
115 54.7 40.2 120.6
150 156.2 0.0 351.0



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





#74

N-amvl acetate

Concen: 1.752 ug/l

RT: 10.91 min Scan# 1601

Delta R.T. 0.01 min

Lab File: VX005153.D

Acq: 09 Oct 2018 03:37

Instrument :

MSVOA_X

ClientSampleId :

RE-105D2-20180927DL

Tot Ion: 43 Resp: 23

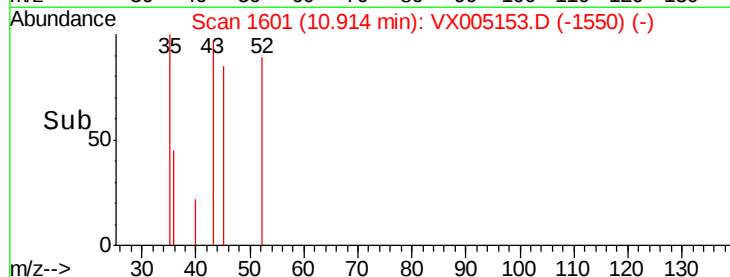
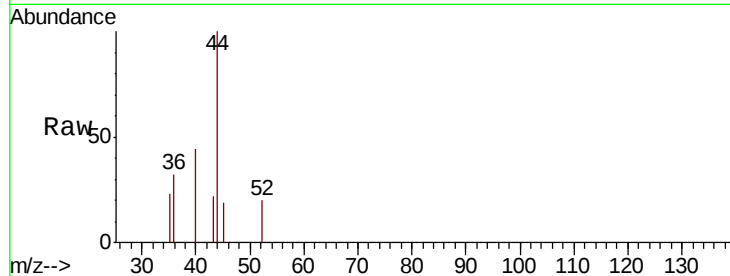
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 0.0 21.6 32.4#

61 0.0 19.1 28.7#

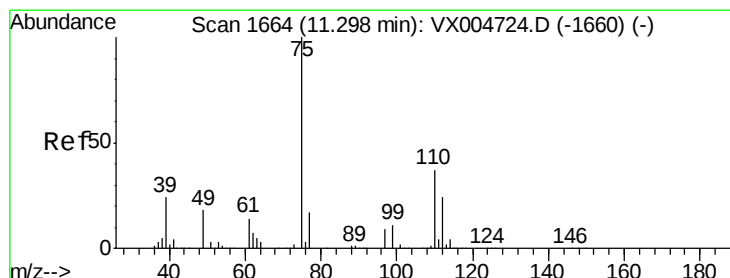
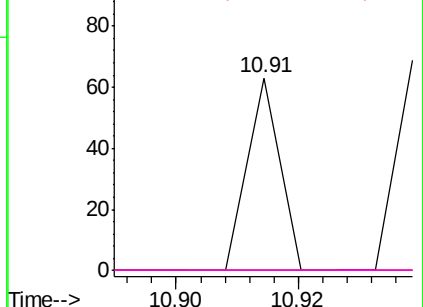


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 20.761 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005153.D

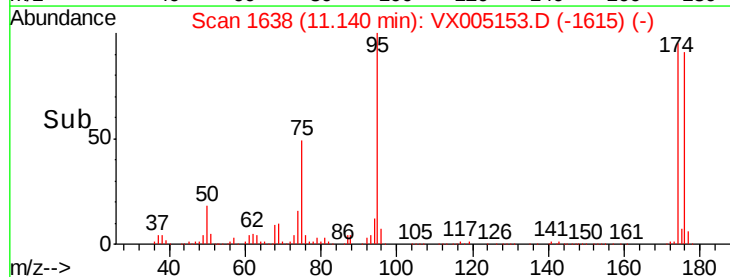
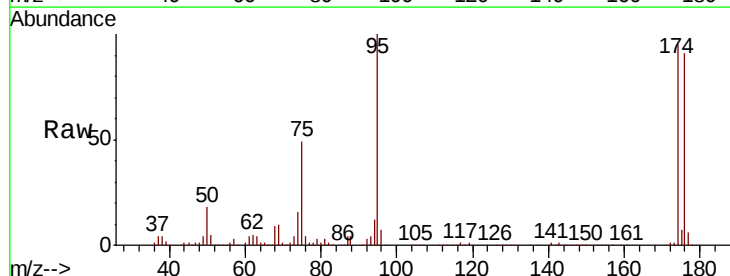
Acq: 09 Oct 2018 03:37

Tgt Ion: 75 Resp: 77666

Ion Ratio Lower Upper

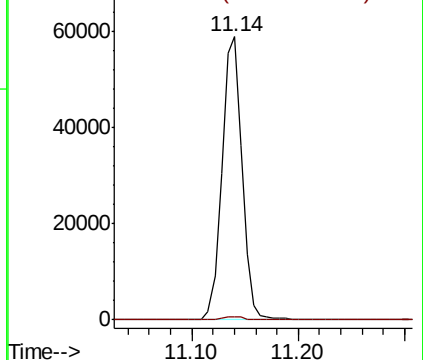
75 100

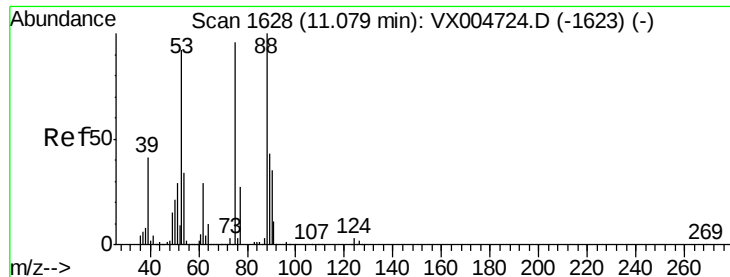
77 1.3 21.4 64.3#



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: 56.359 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX005153.D

Acq: 09 Oct 2018 03:37

Instrument :

MSVOA_X

ClientSampleId :

RE-105D2-20180927DL

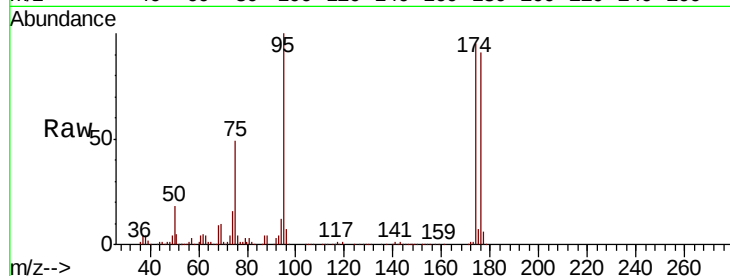
Tot Ion: 75 Resp: 77666

Ion Ratio Lower Upper

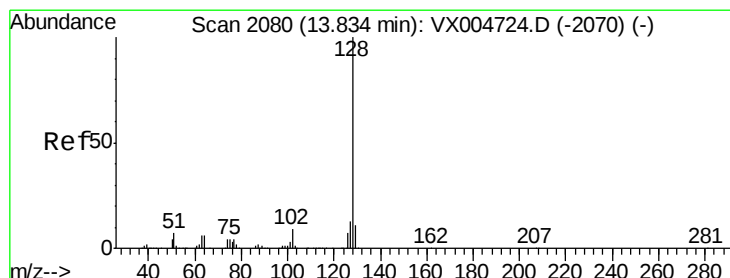
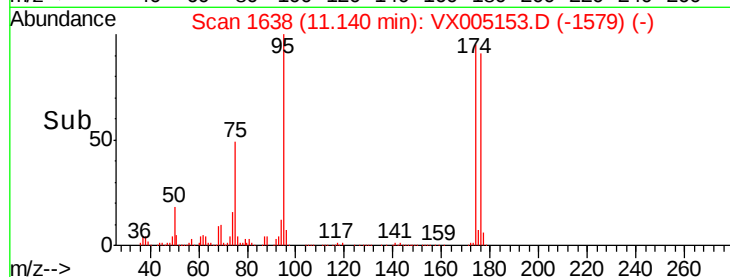
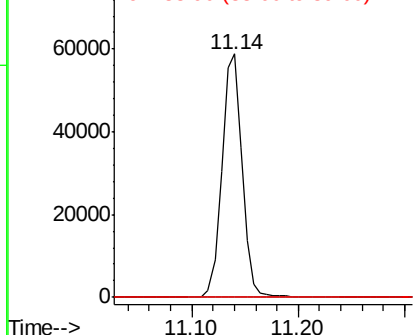
75 100

53 0.3 80.2 120.4#

89 0.0 37.1 55.7#



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



#95

Naphthalene

Concen: 0.734 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX005153.D

Acq: 09 Oct 2018 03:37

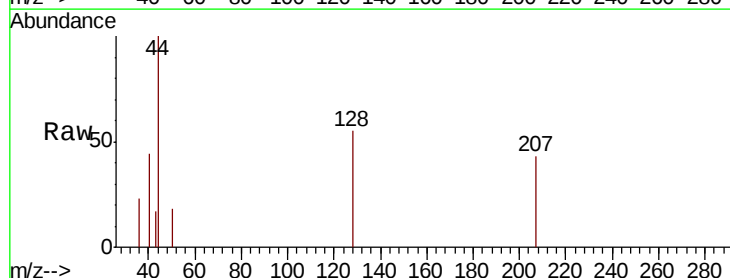
Tgt Ion: 128 Resp: 203

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

