

Data Path : W:\HPCHEM1\MSVOA_L\Data\VL072715\
 Data File : VL025779.D
 Acq On : 28 Jul 2015 8:19
 Operator : SY/MD
 Sample : G3040-04DL 1200X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ERD45-INFLUENT-072215DL

Quant Time: Jul 28 10:12:33 2015
 Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL070715AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 08 02:22:55 2015
 QLast Update : Wed Jul 08 02:22:55 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.65	49	577023	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.32	114	1525806	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.74	117	1873115	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.28	95	1685715	10.67	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.70%

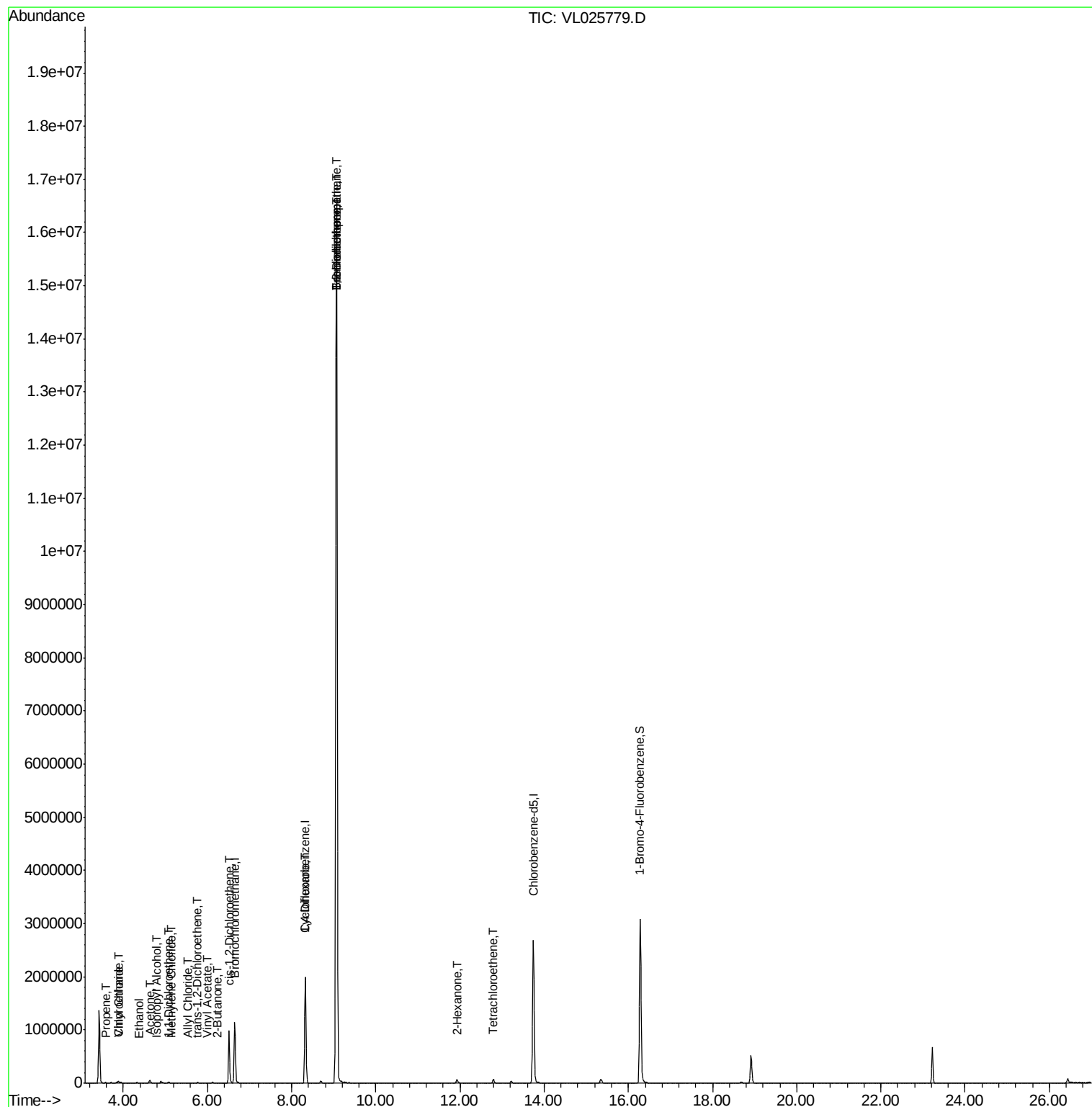
Target Compounds						Qvalue
5) Vinyl Chloride	3.89	62	37051	0.92	ppbv	100
7) Chloroethane	3.89	64	11321	0.61	ppbv #	45
9) Propene	3.60	41	1559	0.06	ppbv	86
13) Ethanol	4.37	45	718	0.17	ppbv #	35
15) Acetone	4.63	43	79147	0.78	ppbv	91
18) 1,1-Dichloroethene	5.09	96	2450	0.06	ppbv #	83
19) Isopropyl Alcohol	4.81	45	1409	0.03	ppbv #	1
20) Methylene Chloride	5.15	84	2224	0.05	ppbv #	72
21) Allyl Chloride	5.54	41	3296	0.05	ppbv #	62
22) trans-1,2-Dichloroethene	5.76	96	7214	0.17	ppbv	81
23) Vinyl Acetate	6.00	43	8214	0.05	ppbv #	81
30) Cyclohexane	8.32	84	4375	0.06	ppbv #	1
31) cis-1,2-Dichloroethene	6.51	61	647933	8.98	ppbv	99
34) 2-Butanone	6.24	43	9251	0.11	ppbv #	84
38) Trichloroethene	9.07	130	5938921	87.41	ppbv	96
39) 1,2-Dichloropropane	9.06	63	35727	0.66	ppbv #	1
42) Bromodichloromethane	9.07	83	99539	0.66	ppbv #	95
51) 2-Hexanone	11.93	43	15133	0.14	ppbv #	49
52) Tetrachloroethene	12.80	164	19767	0.27	ppbv	83

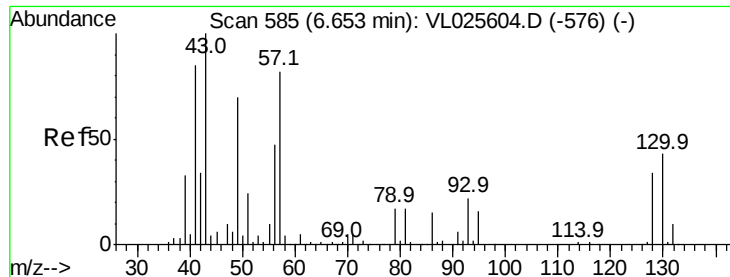
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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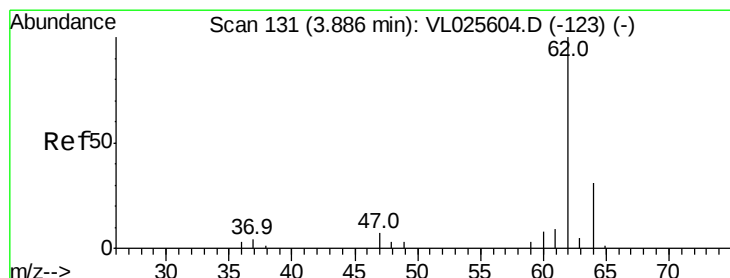
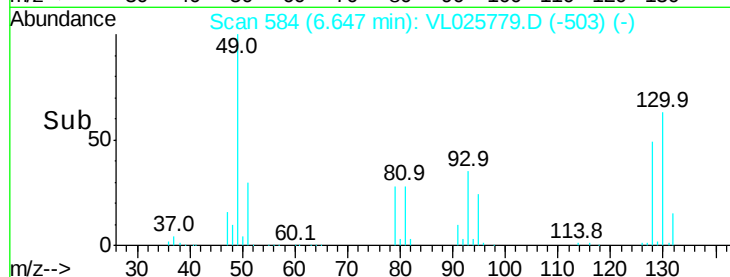
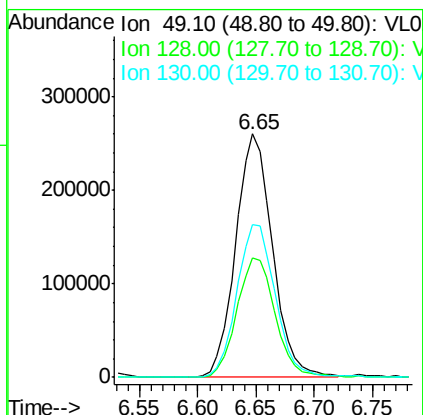
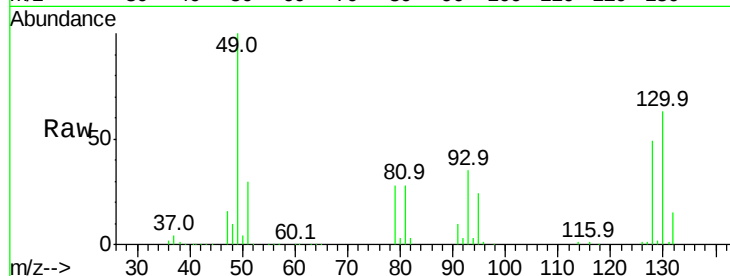




#1
 Bromochloromethane
 Concen: 10.00 ppbv
 RT: 6.65 min Scan# 584
 Delta R.T. -0.01 min
 Lab File: VL025779.D
 Acq: 28 Jul 2015 8:19

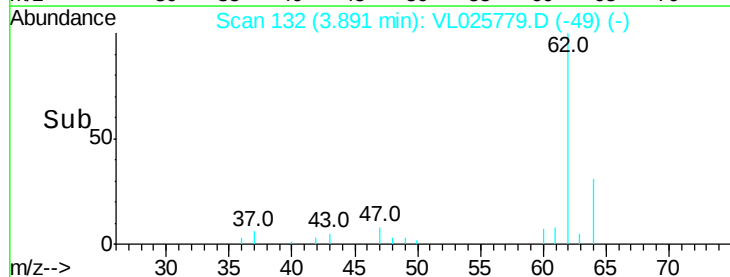
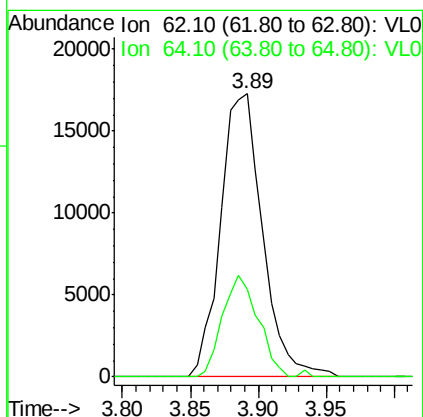
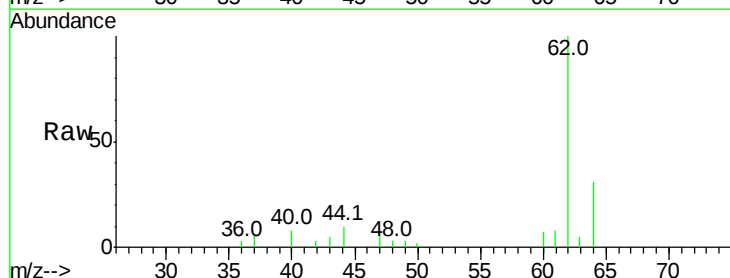
Instrument :
 MSVOA_L
 ClientSampleId :
 ERD45-INFLUENT-072215DL

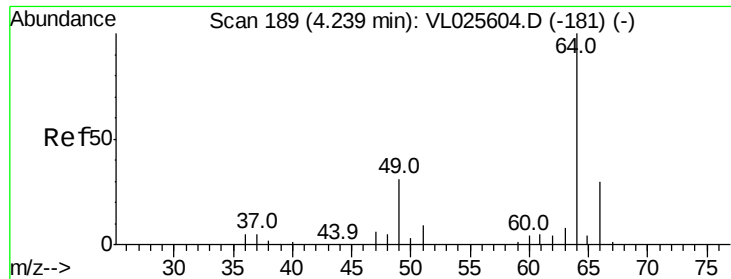
Tgt Ion: 49 Resp: 577023
 Ion Ratio Lower Upper
 49 100
 128 51.6 25.4 76.0
 130 65.9 31.9 95.9



#5
 Vinyl Chloride
 Concen: 0.92 ppbv
 RT: 3.89 min Scan# 132
 Delta R.T. 0.01 min
 Lab File: VL025779.D
 Acq: 28 Jul 2015 8:19

Tgt Ion: 62 Resp: 37051
 Ion Ratio Lower Upper
 62 100
 64 31.1 25.0 37.6





#7

Chloroethane

Concen: 0.61 ppbv

RT: 3.89 min Scan# 131

Delta R.T. -0.35 min

Lab File: VL025779.D

Acq: 28 Jul 2015 8:19

Instrument :

MSVOA_L

ClientSampleId :

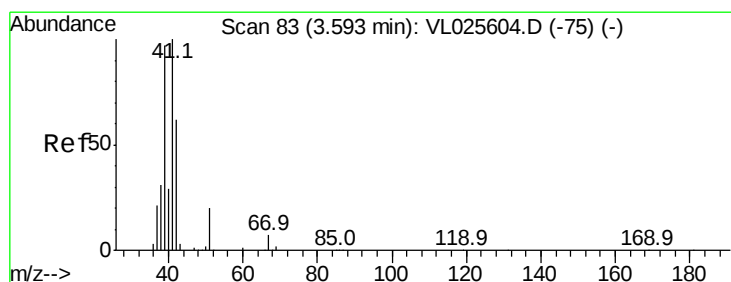
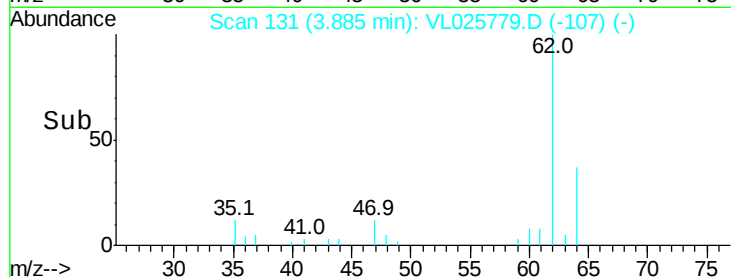
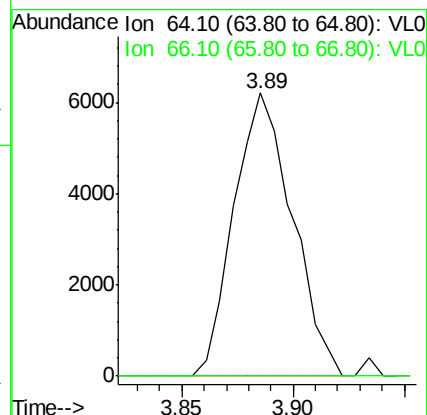
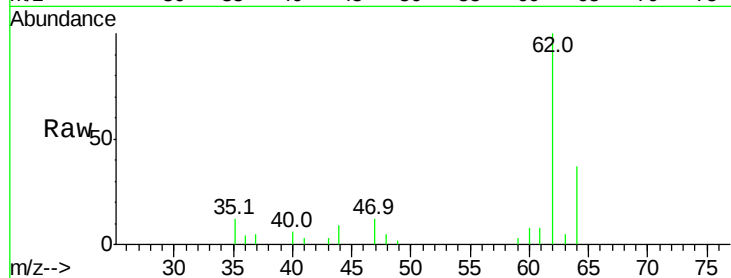
ERD45-INFLUENT-072215DL

Tgt Ion: 64 Resp: 11321

Ion Ratio Lower Upper

64 100

66 0.0 23.8 35.8#



#9

Propene

Concen: 0.06 ppbv

RT: 3.60 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL025779.D

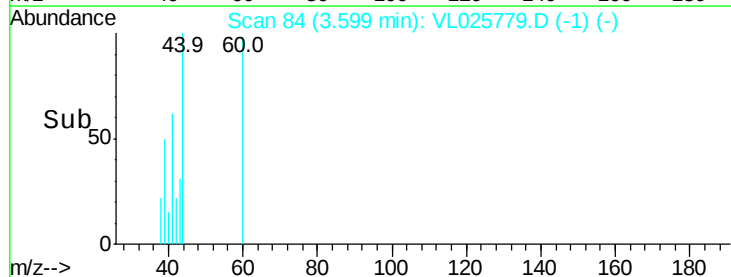
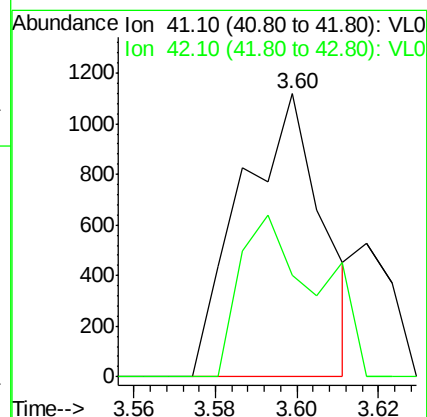
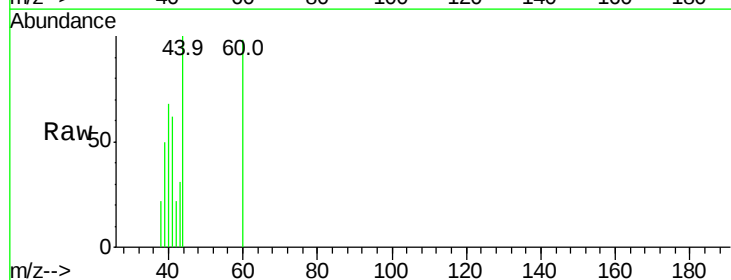
Acq: 28 Jul 2015 8:19

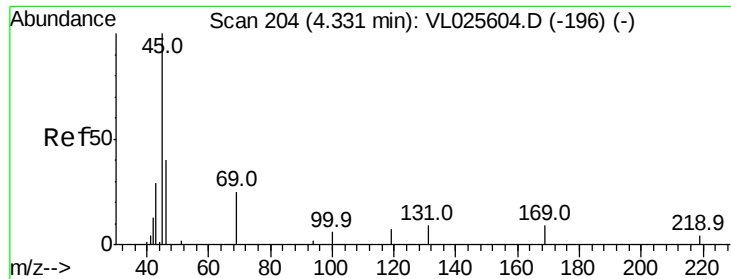
Tgt Ion: 41 Resp: 1559

Ion Ratio Lower Upper

41 100

42 54.1 52.4 78.6





#13

Ethanol

Concen: 0.17 ppbv

RT: 4.37 min Scan# 210

Delta R.T. 0.04 min

Lab File: VL025779.D

Acq: 28 Jul 2015 8:19

Instrument :

MSVOA_L

ClientSampleId :

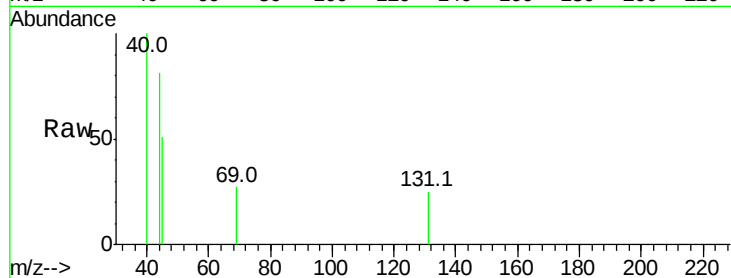
ERD45-INFLUENT-072215DL

Tgt Ion: 45 Resp: 718

Ion Ratio Lower Upper

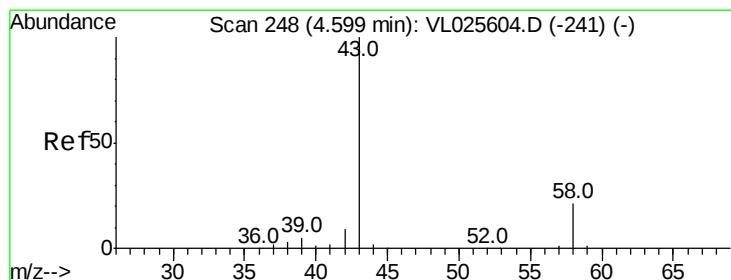
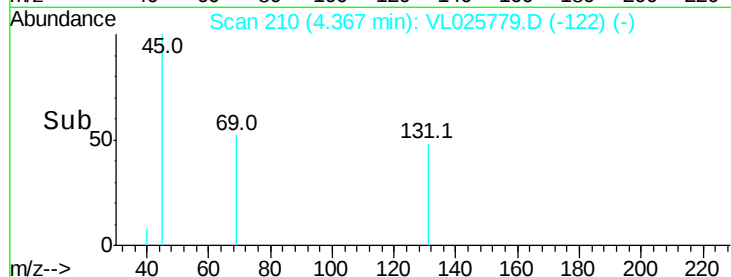
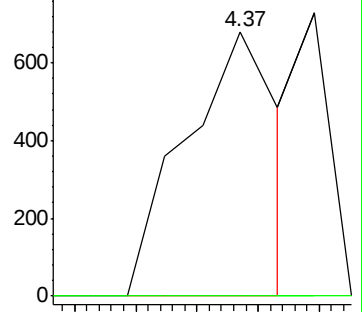
45 100

46 0.0 16.0 64.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 0.78 ppbv

RT: 4.63 min Scan# 253

Delta R.T. 0.03 min

Lab File: VL025779.D

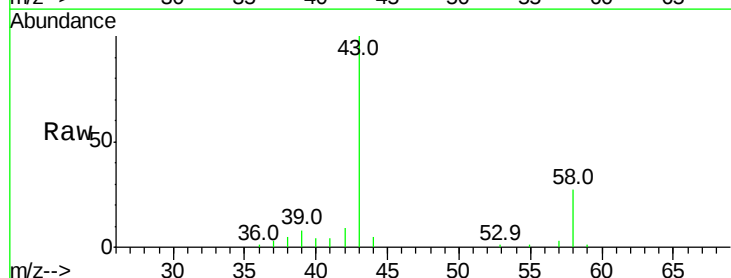
Acq: 28 Jul 2015 8:19

Tgt Ion: 43 Resp: 79147

Ion Ratio Lower Upper

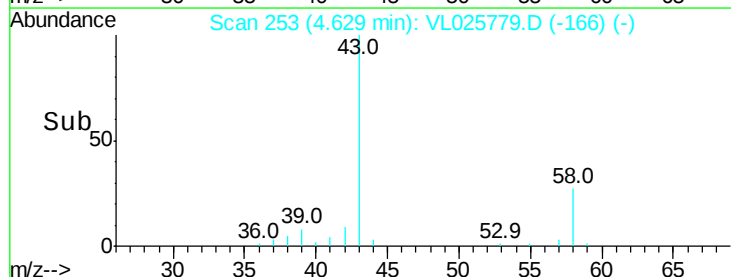
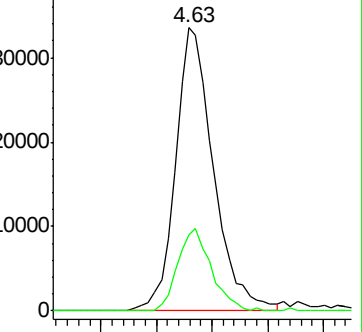
43 100

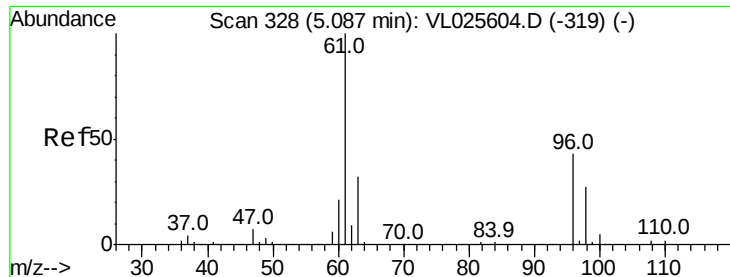
58 25.8 17.2 25.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#18

1,1-Dichloroethene

Concen: 0.06 ppbv

RT: 5.09 min Scan# 328

Delta R.T. -0.00 min

Lab File: VL025779.D

Acq: 28 Jul 2015 8:19

Instrument :

MSVOA_L

ClientSampleId :

ERD45-INFLUENT-072215DL

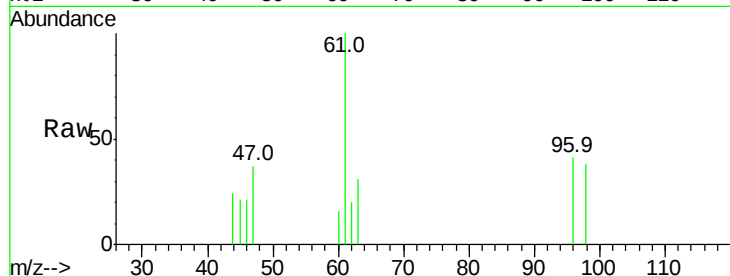
Tgt Ion: 96 Resp: 2450

Ion Ratio Lower Upper

96 100

61 212.8 184.1 276.1

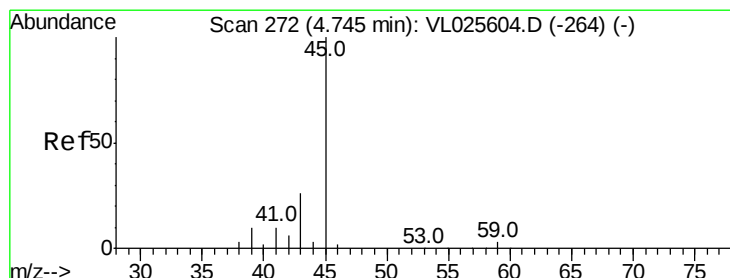
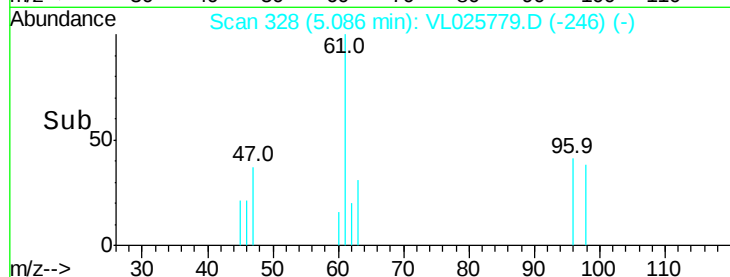
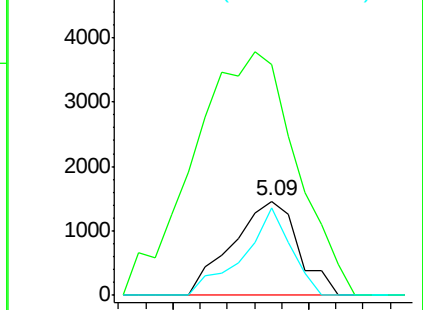
98 93.0 50.0 75.0#



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#19

Isopropyl Alcohol

Concen: 0.03 ppbv

RT: 4.81 min Scan# 282

Delta R.T. 0.06 min

Lab File: VL025779.D

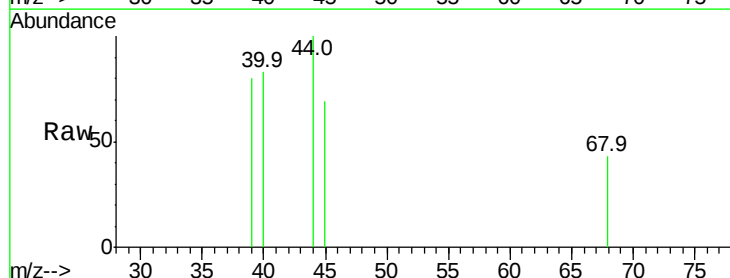
Acq: 28 Jul 2015 8:19

Tgt Ion: 45 Resp: 1409

Ion Ratio Lower Upper

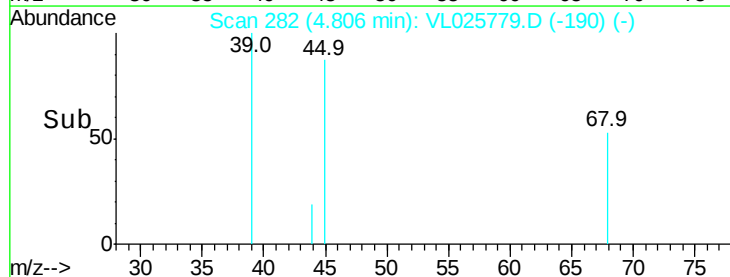
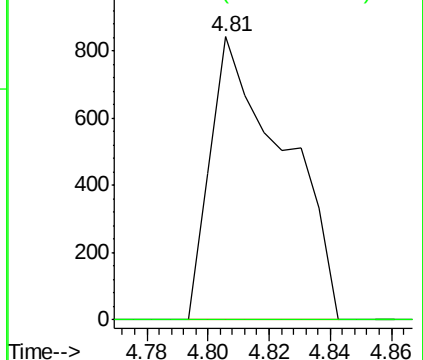
45 100

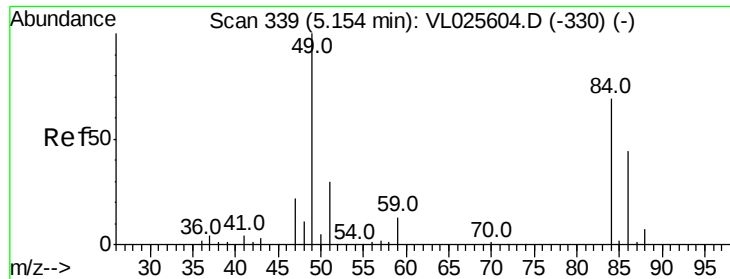
58 1446.5 1.1 1.7#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

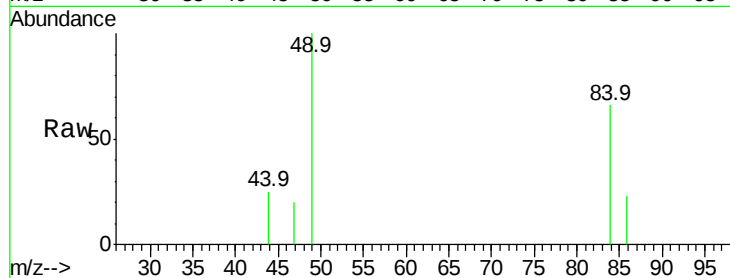




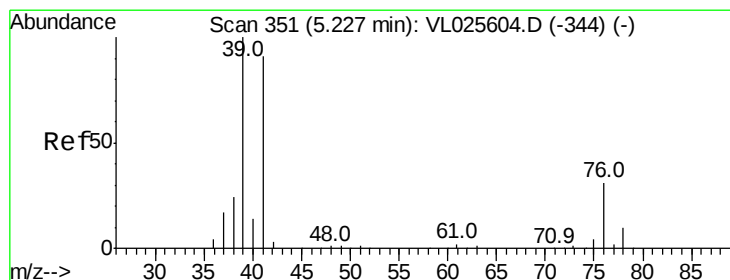
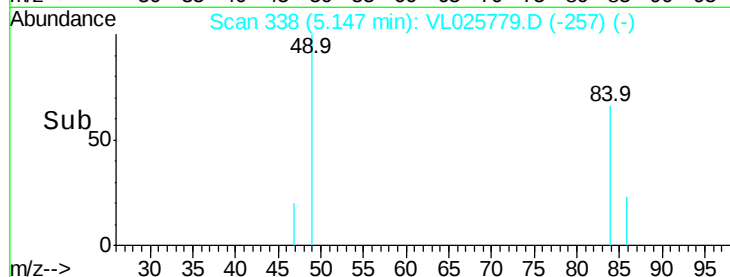
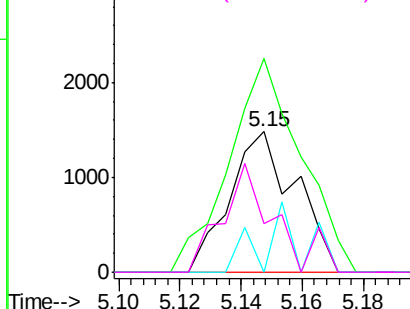
#20
Methylene Chloride
Concen: 0.05 ppbv
RT: 5.15 min Scan# 338
Delta R.T. -0.01 min
Lab File: VL025779.D
Acq: 28 Jul 2015 8:19

Instrument :
MSVOA_L
ClientSampleId :
ERD45-INFLUENT-072215DL

Tgt Ion: 84 Resp: 2224
Ion Ratio Lower Upper
84 100
49 129.0 115.2 172.8
51 0.0 35.0 52.6#
86 34.3 50.6 76.0#

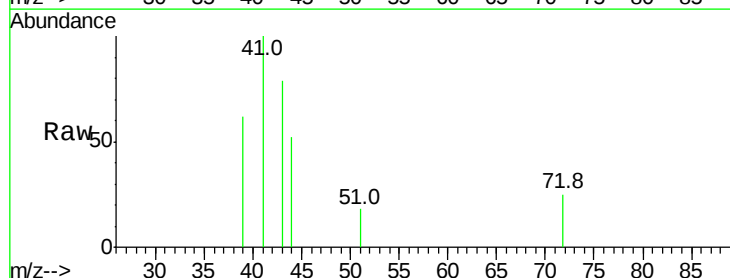


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

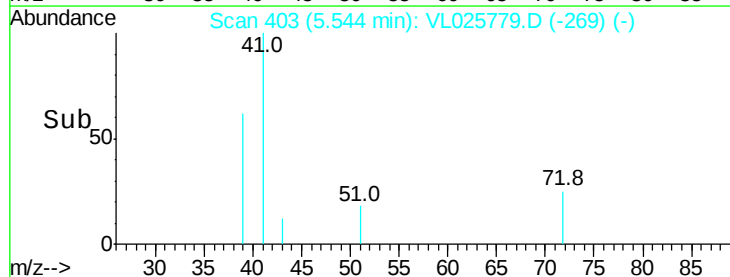
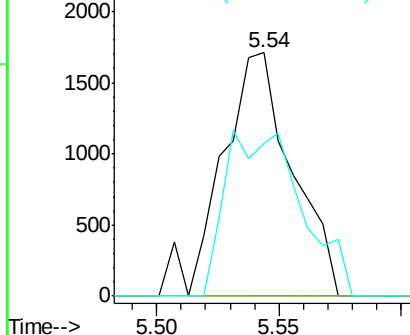


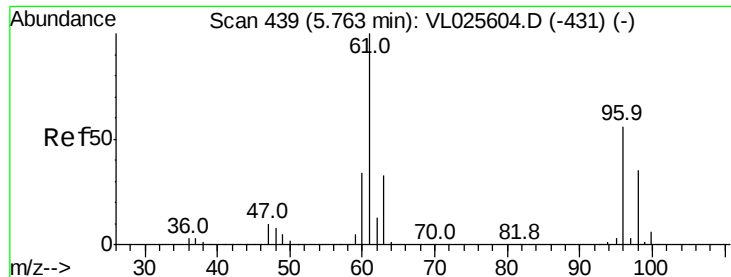
#21
Allyl Chloride
Concen: 0.05 ppbv
RT: 5.54 min Scan# 403
Delta R.T. 0.32 min
Lab File: VL025779.D
Acq: 28 Jul 2015 8:19

Tgt Ion: 41 Resp: 3296
Ion Ratio Lower Upper
41 100
76 66.8 26.6 40.0#
39 76.7 88.2 132.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0





#22

trans-1,2-Dichloroethene

Concen: 0.17 ppbv

RT: 5.76 min Scan# 439

Delta R.T. -0.00 min

Lab File: VL025779.D

Acq: 28 Jul 2015 8:19

Instrument :

MSVOA_L

ClientSampleId :

ERD45-INFLUENT-072215DL

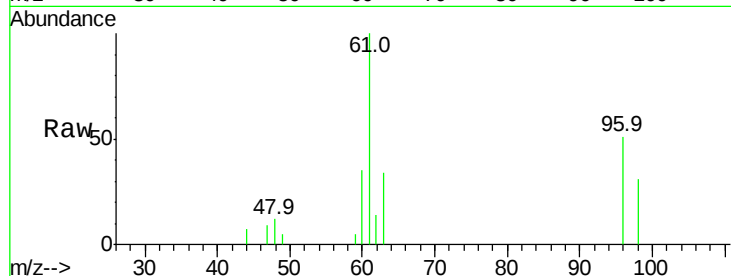
Tgt Ion: 96 Resp: 7214

Ion Ratio Lower Upper

96 100

61 211.9 141.8 212.6

98 60.3 49.0 73.6

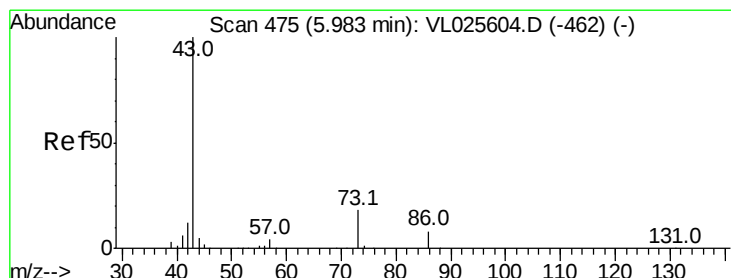
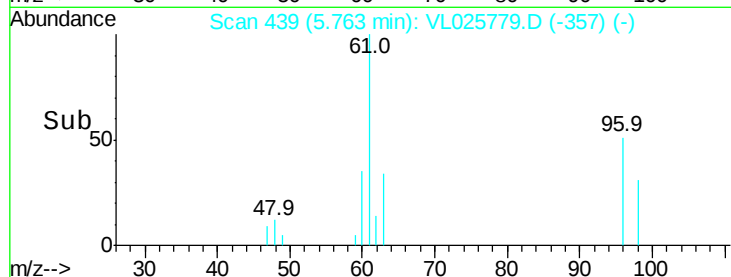
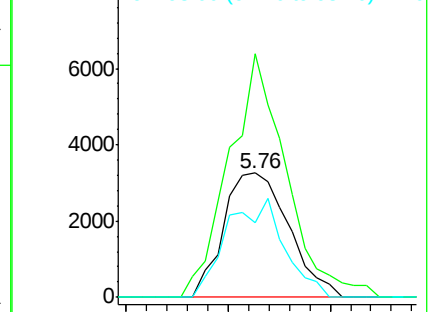


Abundance

Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#23

Vinyl Acetate

Concen: 0.05 ppbv

RT: 6.00 min Scan# 478

Delta R.T. 0.02 min

Lab File: VL025779.D

Acq: 28 Jul 2015 8:19

Tgt Ion: 43 Resp: 8214

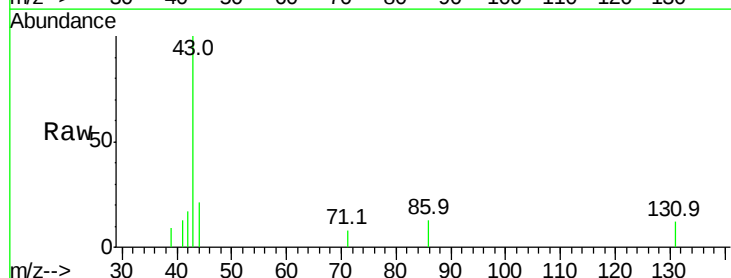
Ion Ratio Lower Upper

43 100

86 12.8 6.7 10.1#

42 17.1 9.8 14.6#

44 20.7 4.1 6.1#



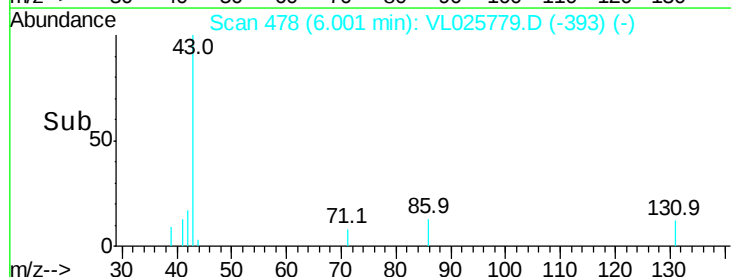
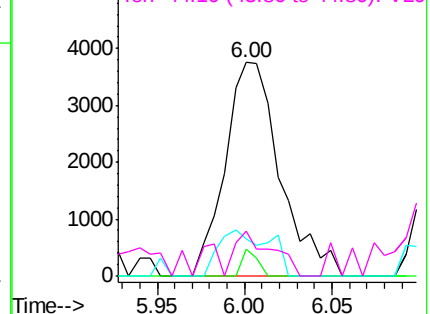
Abundance

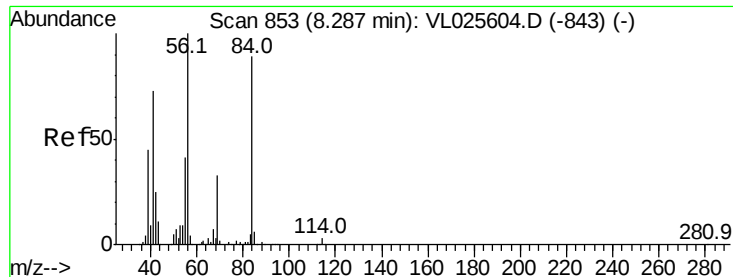
Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0

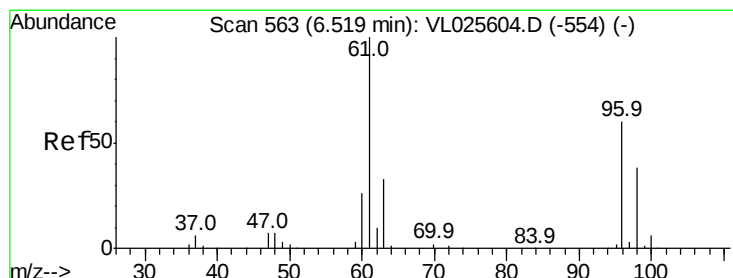
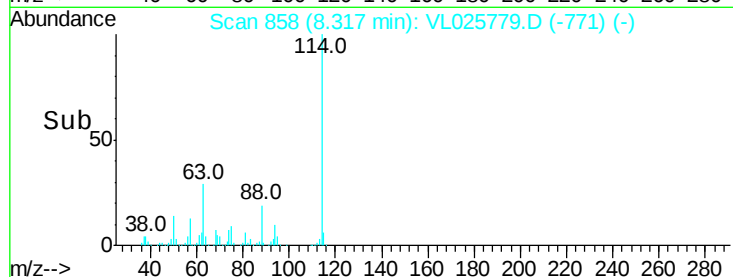
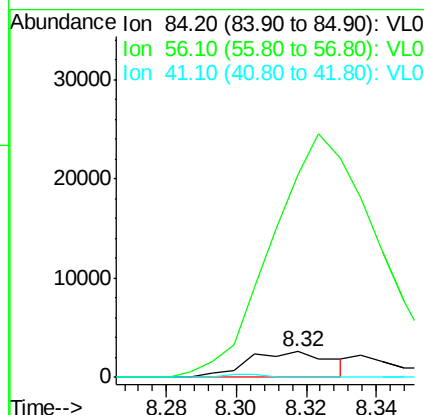
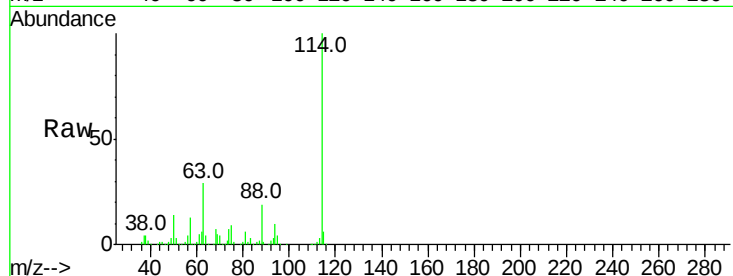




#30
Cyclohexane
Concen: 0.06 ppbv
RT: 8.32 min Scan# 858
Delta R.T. 0.03 min
Lab File: VL025779.D
Acq: 28 Jul 2015 8:19

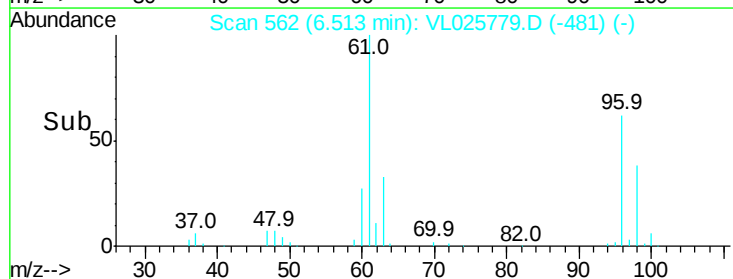
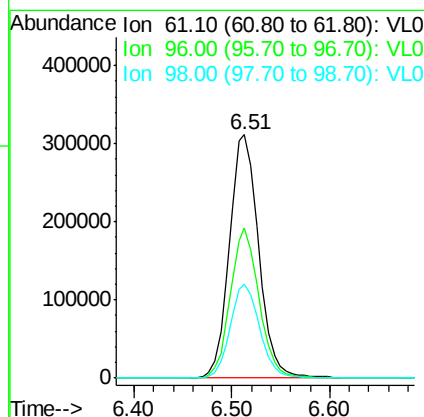
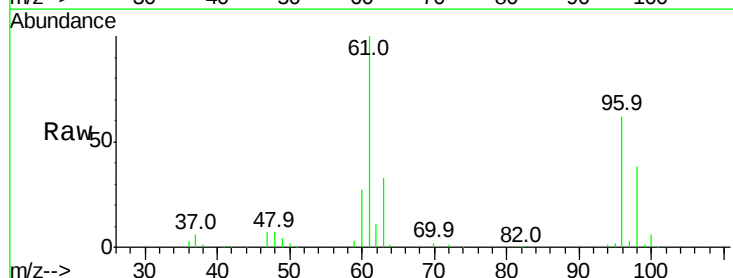
Instrument :
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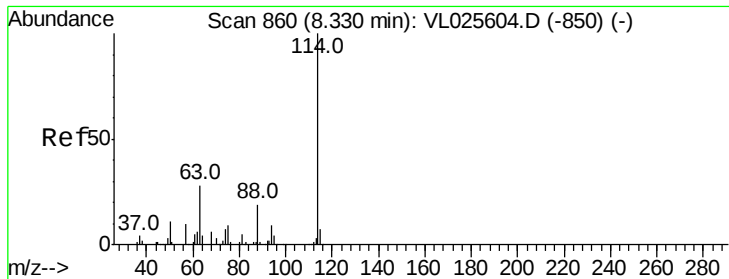
Tgt Ion: 84 Resp: 4375
Ion Ratio Lower Upper
84 100
56 1206.3 97.5 146.3#
41 0.0 65.4 98.2#



#31
cis-1,2-Dichloroethene
Concen: 8.98 ppbv
RT: 6.51 min Scan# 562
Delta R.T. -0.01 min
Lab File: VL025779.D
Acq: 28 Jul 2015 8:19

Tgt Ion: 61 Resp: 647933
Ion Ratio Lower Upper
61 100
96 61.8 48.1 72.1
98 38.4 30.7 46.1

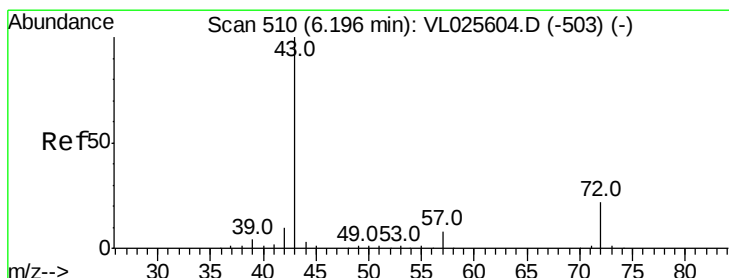
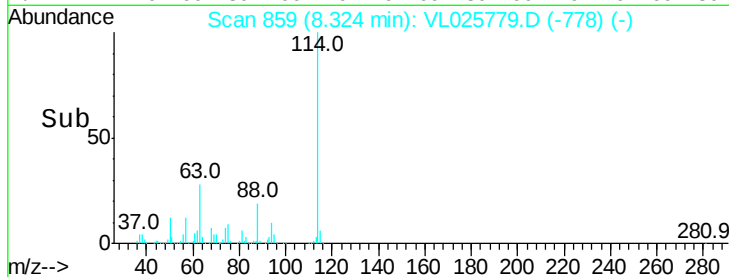
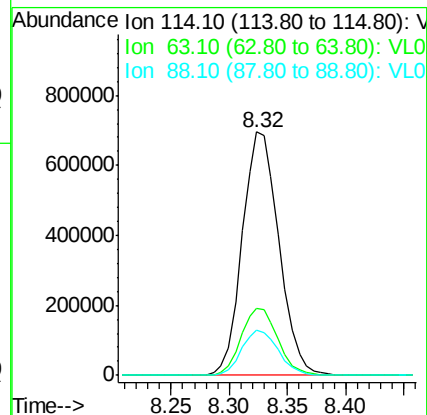
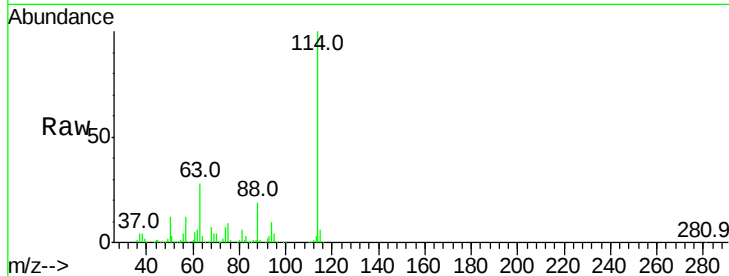




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.32 min Scan# 859
 Delta R.T. -0.01 min
 Lab File: VL025779.D
 Acq: 28 Jul 2015 8:19

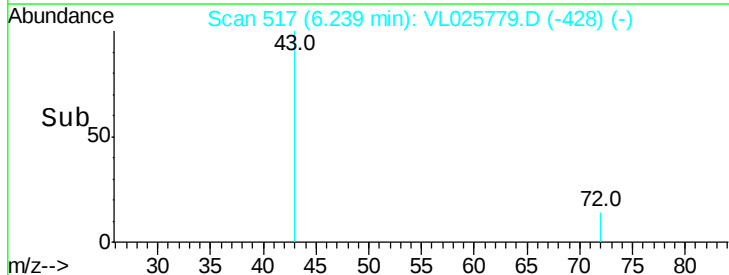
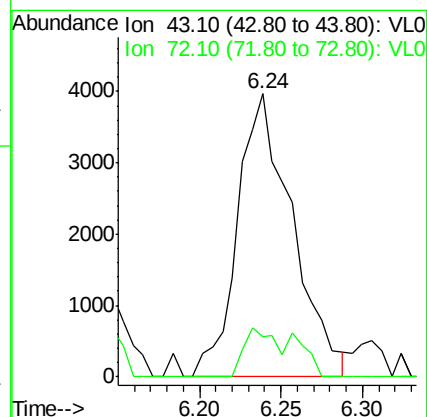
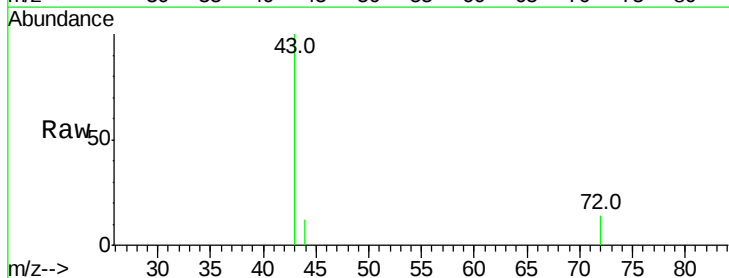
Instrument :
 MSVOA_L
 ClientSampleId :
 ERD45-INFLUENT-072215DL

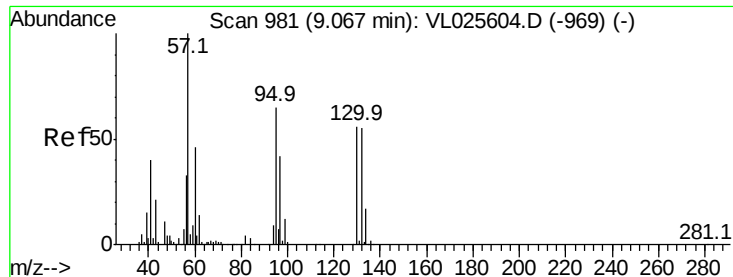
Tgt Ion:114 Resp: 1525806
 Ion Ratio Lower Upper
 114 100
 63 27.6 22.4 33.6
 88 18.5 15.0 22.4



#34
 2-Butanone
 Concen: 0.11 ppbv
 RT: 6.24 min Scan# 517
 Delta R.T. 0.04 min
 Lab File: VL025779.D
 Acq: 28 Jul 2015 8:19

Tgt Ion: 43 Resp: 9251
 Ion Ratio Lower Upper
 43 100
 72 15.5 18.6 28.0#





#38

Trichloroethene

Concen: 87.41 ppbv

RT: 9.07 min Scan# 981

Delta R.T. -0.00 min

Lab File: VL025779.D

Acq: 28 Jul 2015 8:19

Instrument :

MSVOA_L

ClientSampleId :

ERD45-INFLUENT-072215DL

Tgt Ion:130 Resp: 5938921

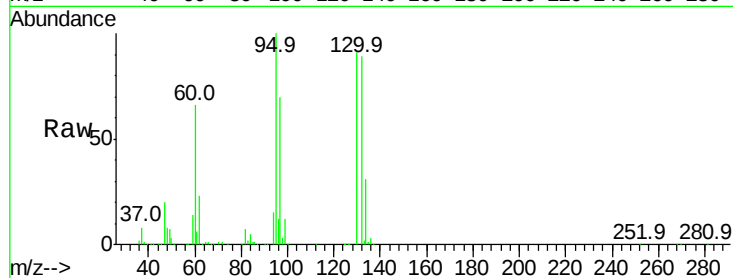
Ion Ratio Lower Upper

130 100

95 109.4 94.2 141.4

132 96.9 78.6 118.0

97 76.6 60.6 90.8

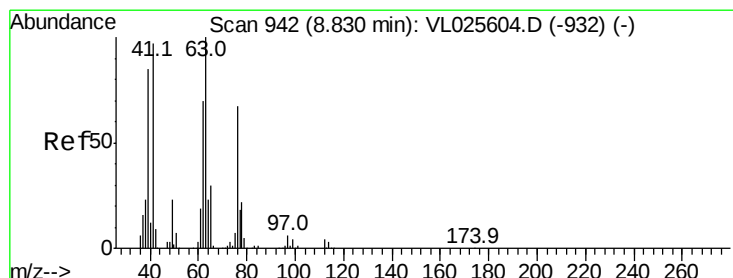
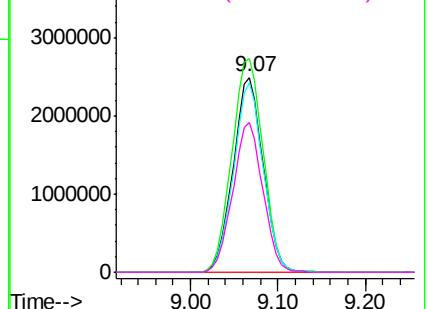
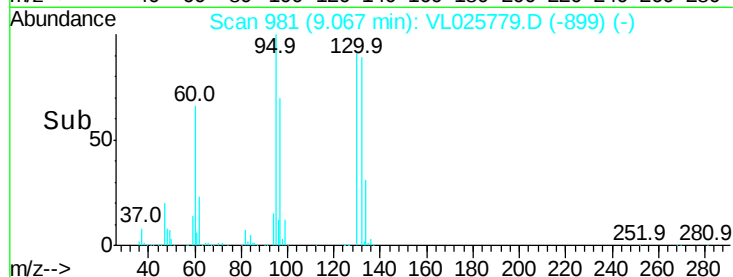


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 0.66 ppbv

RT: 9.06 min Scan# 980

Delta R.T. 0.23 min

Lab File: VL025779.D

Acq: 28 Jul 2015 8:19

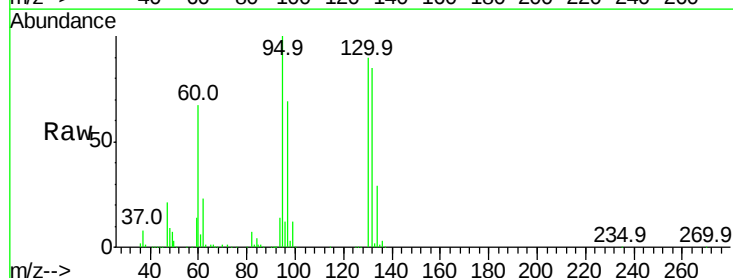
Tgt Ion: 63 Resp: 35727

Ion Ratio Lower Upper

63 100

41 13.8 78.0 117.0#

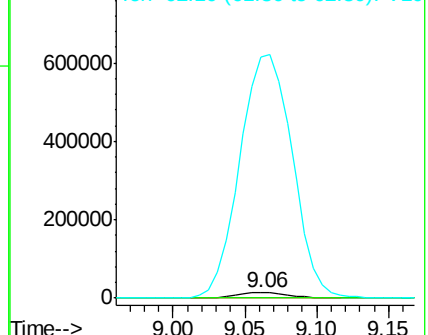
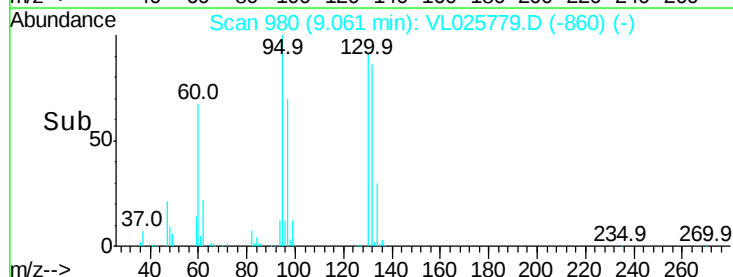
62 4543.2 55.7 83.5#

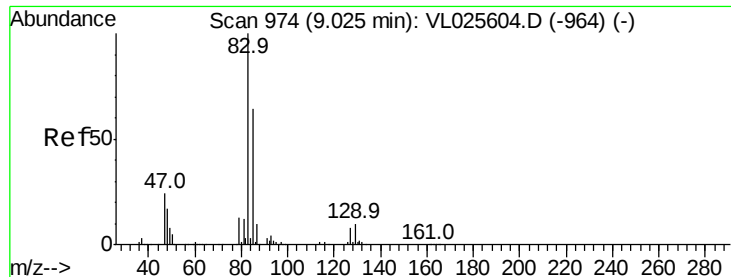


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 0.66 ppbv

RT: 9.07 min Scan# 981

Delta R.T. 0.04 min

Lab File: VL025779.D

Acq: 28 Jul 2015 8:19

Instrument :

MSVOA_L

ClientSampleId :

ERD45-INFLUENT-072215DL

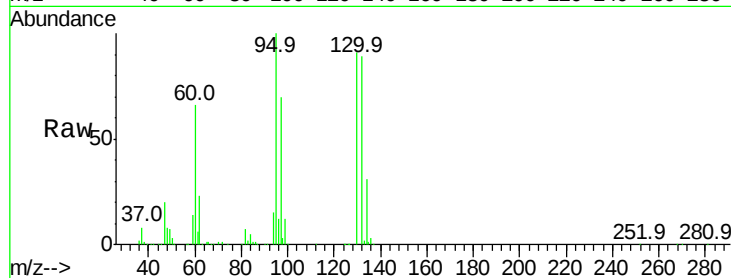
Tgt Ion: 83 Resp: 99539

Ion Ratio Lower Upper

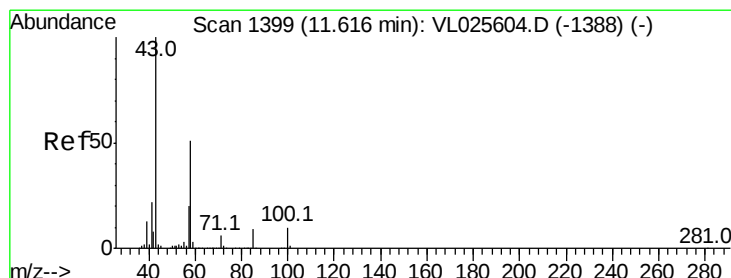
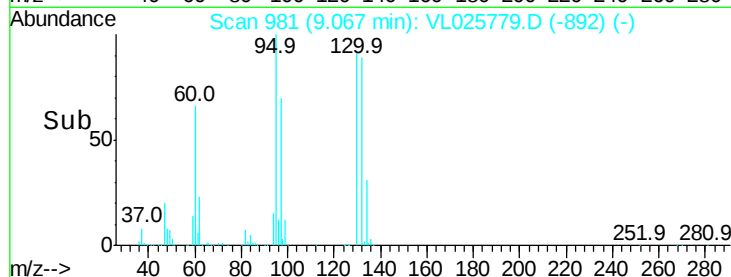
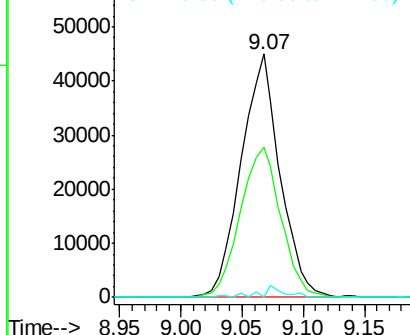
83 100

85 61.4 51.3 76.9

127 0.0 6.0 9.0#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): VL0



#51

2-Hexanone

Concen: 0.14 ppbv

RT: 11.93 min Scan# 1450

Delta R.T. 0.31 min

Lab File: VL025779.D

Acq: 28 Jul 2015 8:19

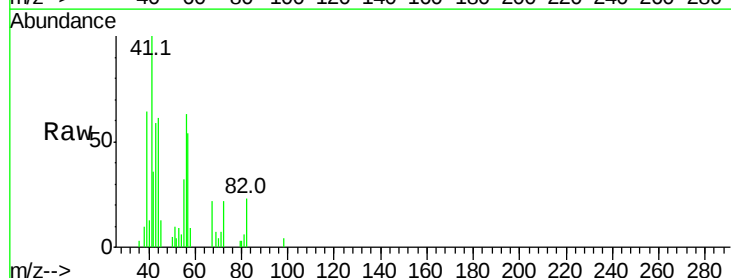
Tgt Ion: 43 Resp: 15133

Ion Ratio Lower Upper

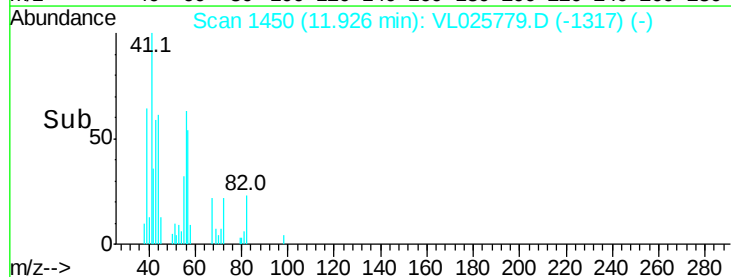
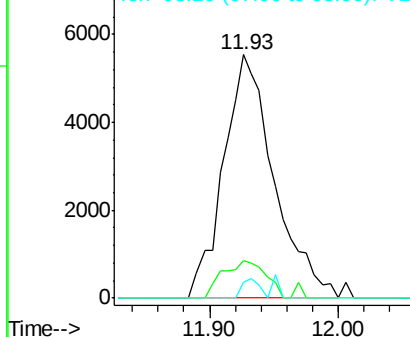
43 100

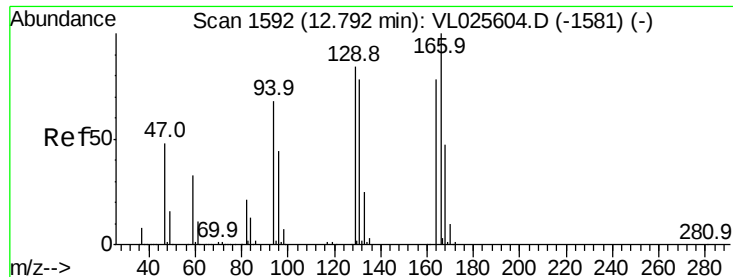
58 13.9 39.0 58.6#

98 4.0 0.2 0.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0





#52

Tetrachloroethene

Concen: 0.27 ppbv

RT: 12.80 min Scan# 1593

Delta R.T. 0.01 min

Lab File: VL025779.D

Acq: 28 Jul 2015 8:19

Instrument :

MSVOA_L

ClientSampleId :

ERD45-INFLUENT-072215DL

Tgt Ion:164 Resp: 19767

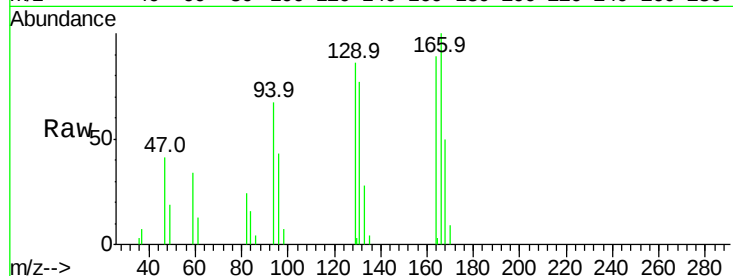
Ion Ratio Lower Upper

164 100

166 107.7 102.3 153.5

129 92.8 86.2 129.4

131 82.5 80.3 120.5



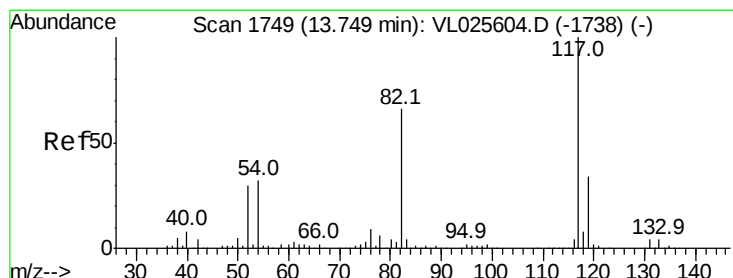
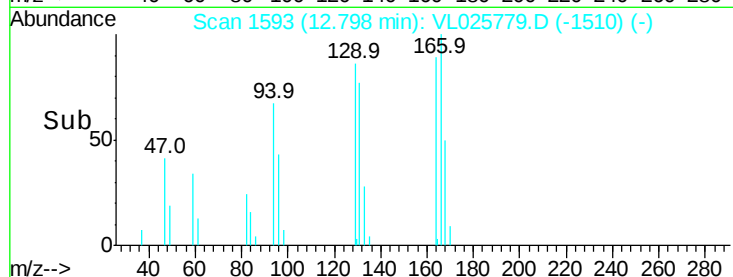
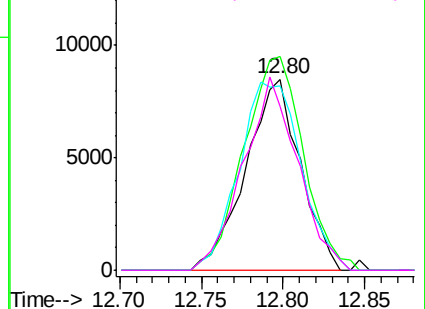
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.74 min Scan# 1748

Delta R.T. -0.01 min

Lab File: VL025779.D

Acq: 28 Jul 2015 8:19

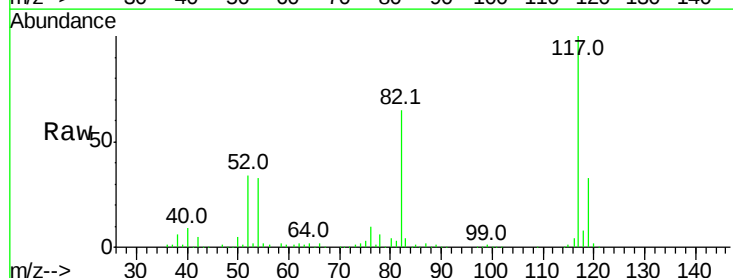
Tgt Ion:117 Resp: 1873115

Ion Ratio Lower Upper

117 100

82 67.3 50.5 75.7

119 33.1 45.1 67.7#

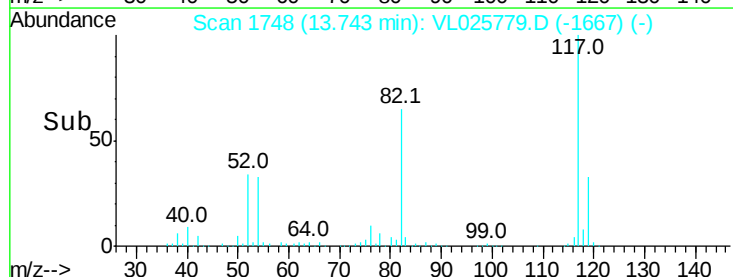
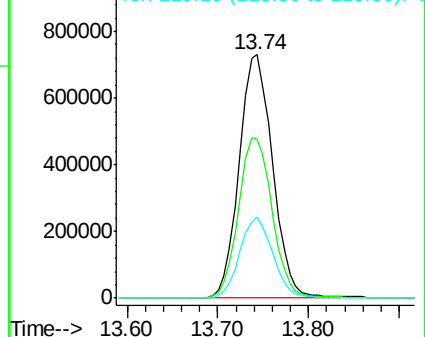


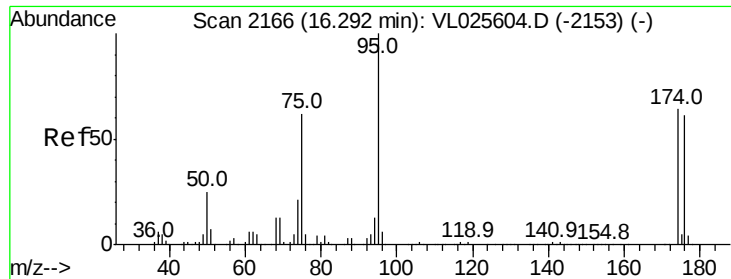
Abundance

Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.67 ppbv

RT: 16.28 min Scan# 2164

Delta R.T. -0.01 min

Lab File: VL025779.D

Acq: 28 Jul 2015 8:19

Instrument :

MSVOA_L

ClientSampleId :

ERD45-INFLUENT-072215DL

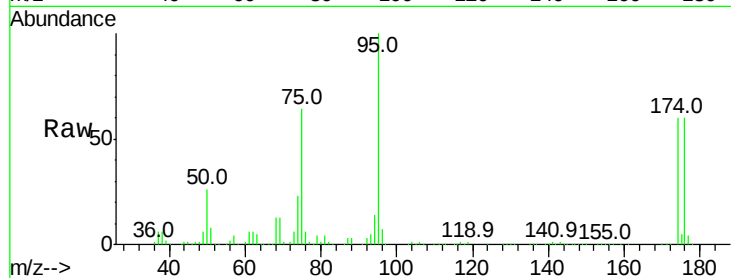
Tgt Ion: 95 Resp: 1685715

Ion Ratio Lower Upper

95 100

174 63.2 52.0 78.0

175 4.7 3.9 5.9



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

