

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL072715\
 Data File : VL025778.D
 Acq On : 28 Jul 2015 7:40
 Operator : SY/MD
 Sample : G3040-04 120X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ERD45-INFLUENT-072215

Quant Time: Jul 28 10:11:36 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	621961	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.34	114	1633631	10.00	ppbv	0.01
55) Chlorobenzene-d5	13.75	117	2093315	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.29	95	1851149	10.48	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.80%

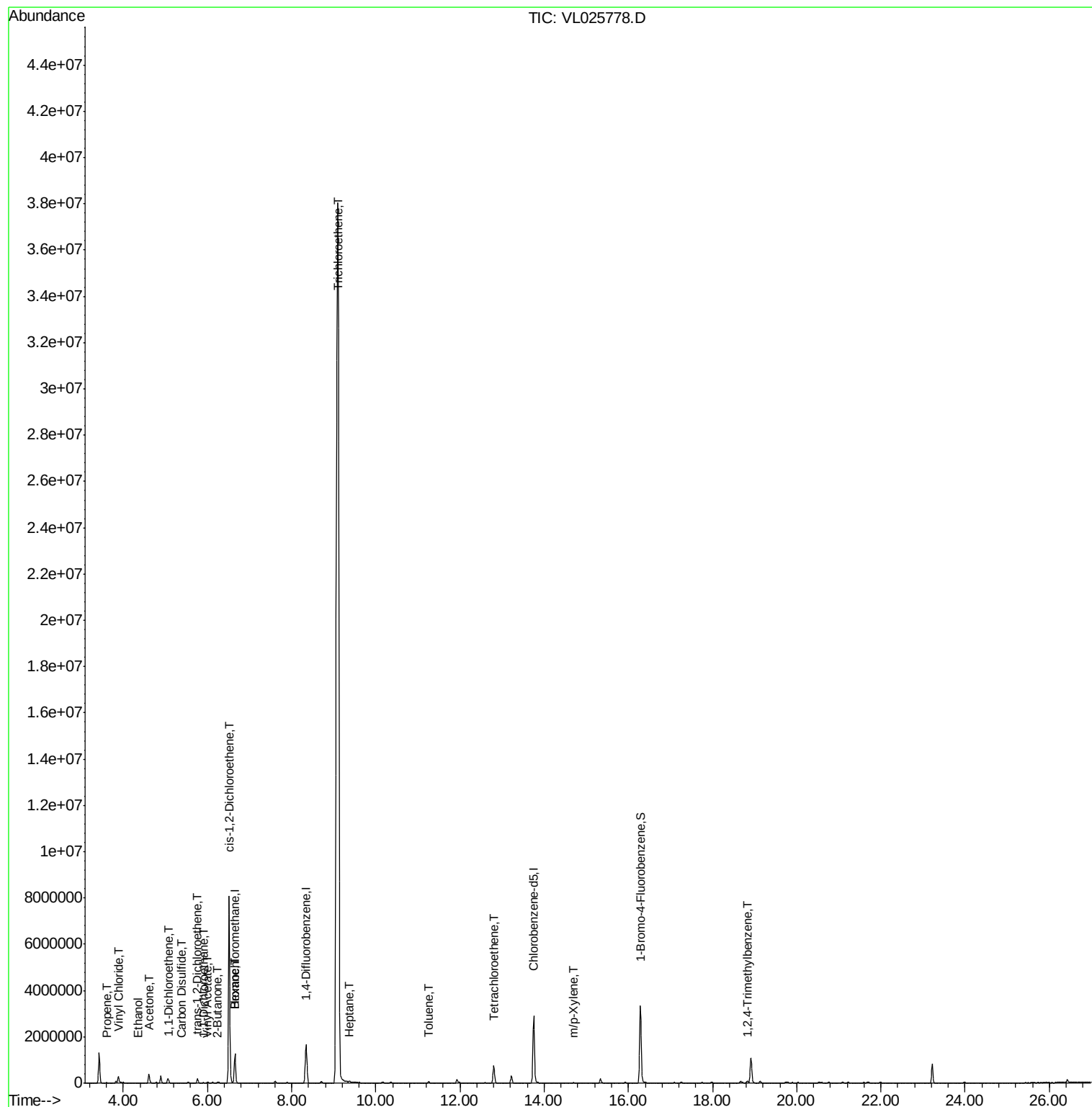
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Vinyl Chloride	3.89	62	314721	7.29	ppbv	99
9) Propene	3.60	41	6788	0.23	ppbv #	81
10) Heptane	9.37	43	13823	0.12	ppbv	96
13) Ethanol	4.35	45	9061	2.00	ppbv	99
15) Acetone	4.61	43	565042	5.14	ppbv	99
18) 1,1-Dichloroethene	5.09	96	22699	0.49	ppbv	90
22) trans-1,2-Dichloroethene	5.76	96	66685	1.42	ppbv	97
23) Vinyl Acetate	6.01	43	67794	0.41	ppbv #	89
24) 1,1-Dichloroethane	5.91	63	15520	0.14	ppbv #	91
26) Hexane	6.65	57	14764	0.19	ppbv #	56
27) Carbon Disulfide	5.39	76	17650	0.14	ppbv #	71
31) cis-1,2-Dichloroethene	6.51	61	5602529	72.01	ppbv	97
34) 2-Butanone	6.24	43	85909	0.93	ppbv	96
38) Trichloroethene	9.10	130	22550043	309.99	ppbv	89
52) Tetrachloroethene	12.80	164	210786	2.69	ppbv	96
53) Toluene	11.26	91	63543	0.29	ppbv	95
59) m/p-Xylene	14.69	91	25294	0.08	ppbv	93
74) 1,2,4-Trimethylbenzene	18.83	105	60734	0.15	ppbv #	67

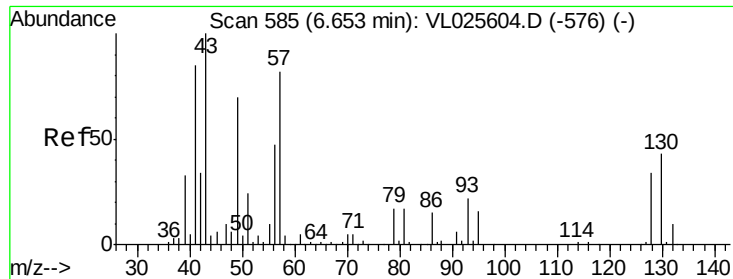
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL072715\
Data File : VL025778.D
Acq On : 28 Jul 2015 7:40
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Sample : G3040-04 120X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ERD45-INFLUENT-072215

Quant Time: Jul 28 10:11:36 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

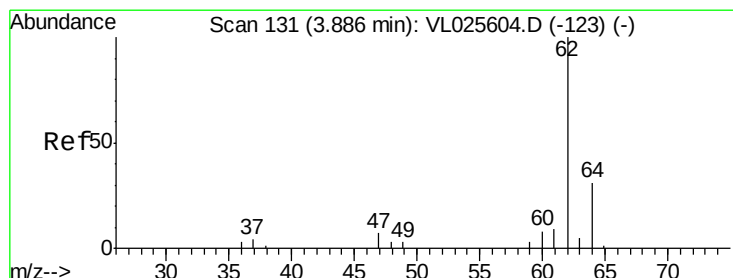
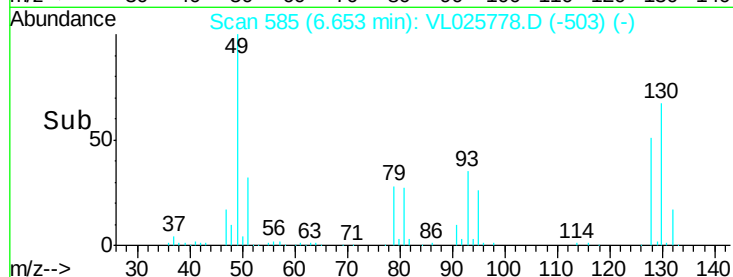
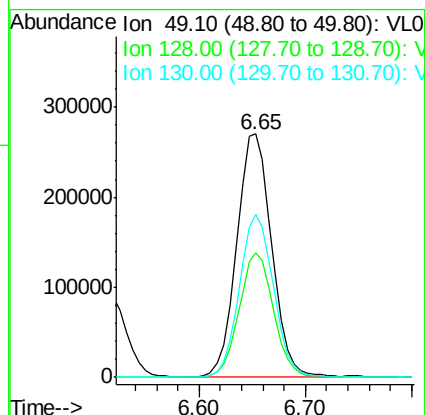
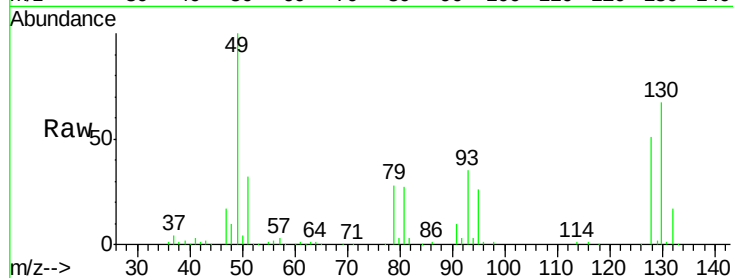




#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 6.65 min Scan# 585
Delta R.T. -0.00 min
Lab File: VL025778.D
Acq: 28 Jul 2015 7:40

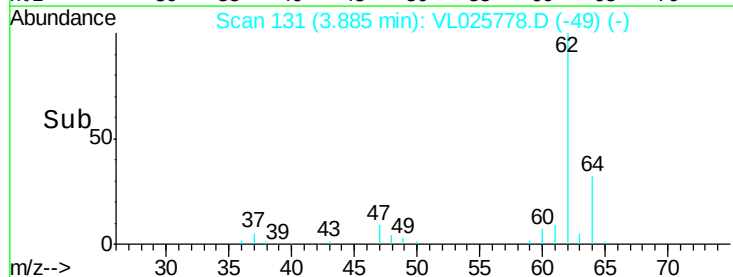
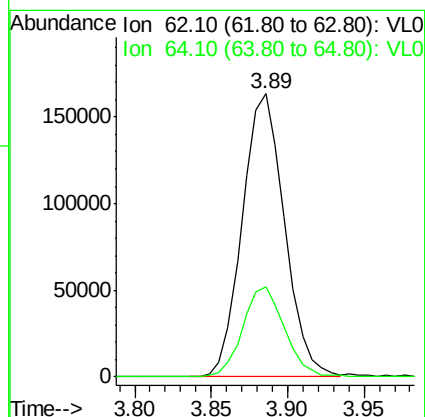
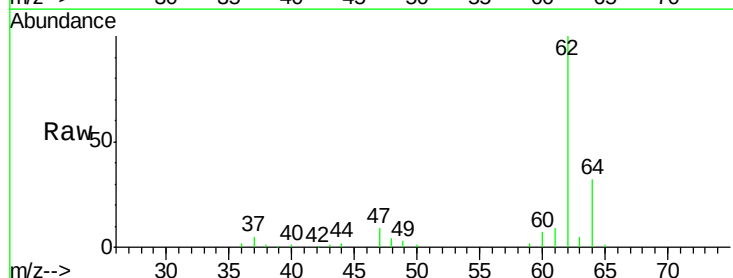
Instrument :
MSVOA_L
ClientSampleId :
ERD45-INFLUENT-072215

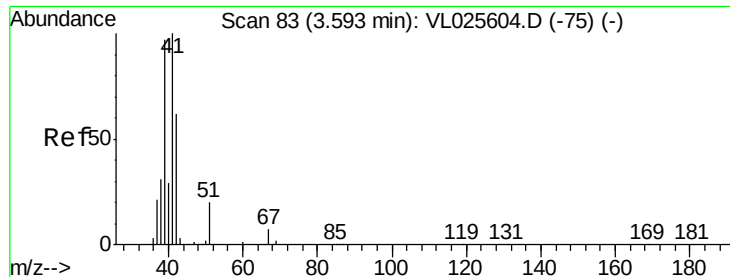
Tgt Ion: 49 Resp: 621961
Ion Ratio Lower Upper
49 100
128 50.9 25.4 76.0
130 66.2 31.9 95.9



#5
Vinyl Chloride
Concen: 7.29 ppbv
RT: 3.89 min Scan# 131
Delta R.T. -0.00 min
Lab File: VL025778.D
Acq: 28 Jul 2015 7:40

Tgt Ion: 62 Resp: 314721
Ion Ratio Lower Upper
62 100
64 31.6 25.0 37.6





#9

Propene

Concen: 0.23 ppbv

RT: 3.60 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL025778.D

Acq: 28 Jul 2015 7:40

Instrument :

MSVOA_L

ClientSampleId :

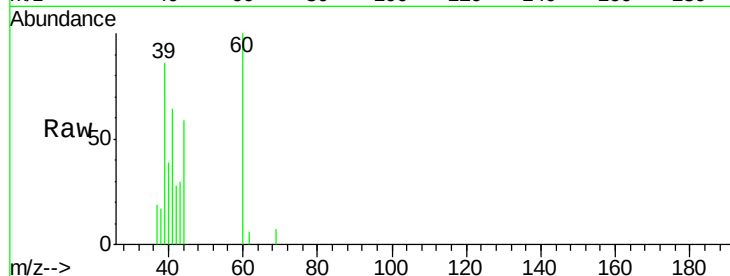
ERD45-INFLUENT-072215

Tgt Ion: 41 Resp: 6788

Ion Ratio Lower Upper

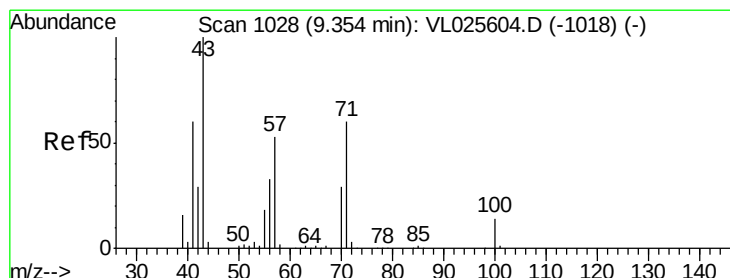
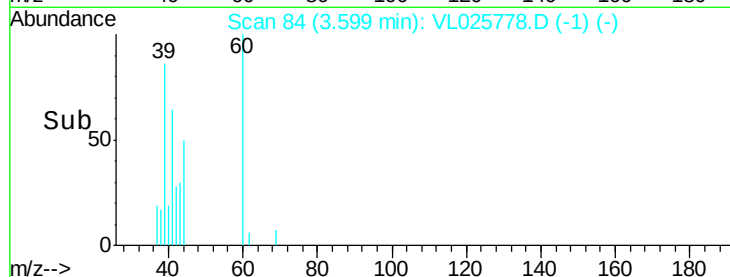
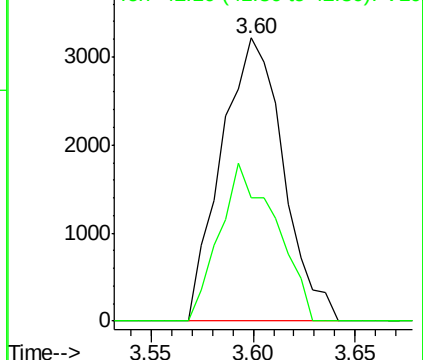
41 100

42 50.6 52.4 78.6#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.12 ppbv

RT: 9.37 min Scan# 1031

Delta R.T. 0.02 min

Lab File: VL025778.D

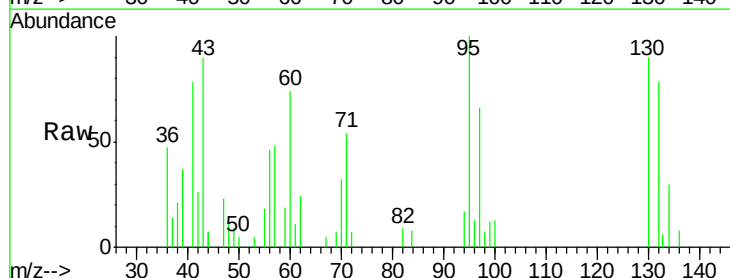
Acq: 28 Jul 2015 7:40

Tgt Ion: 43 Resp: 13823

Ion Ratio Lower Upper

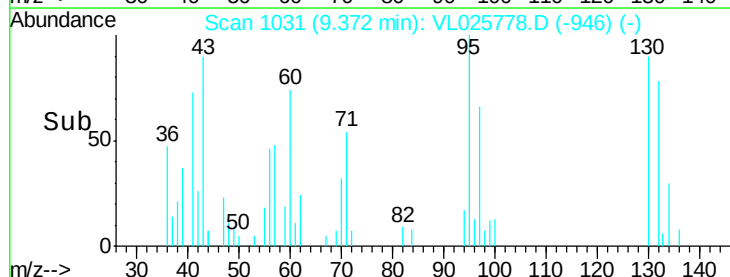
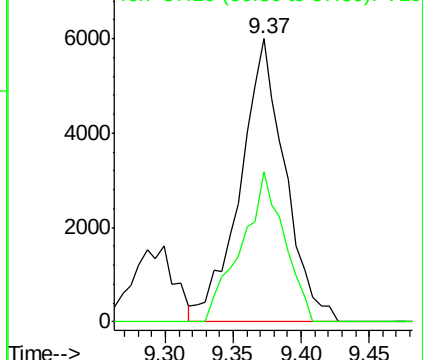
43 100

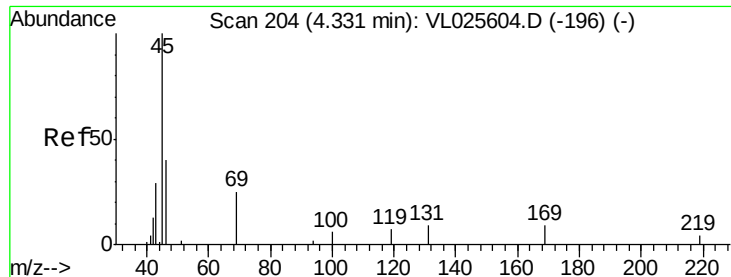
57 50.5 42.6 64.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#13

Ethanol

Concen: 2.00 ppbv

RT: 4.35 min Scan# 208

Delta R.T. 0.02 min

Lab File: VL025778.D

Acq: 28 Jul 2015 7:40

Instrument :

MSVOA_L

ClientSampleId :

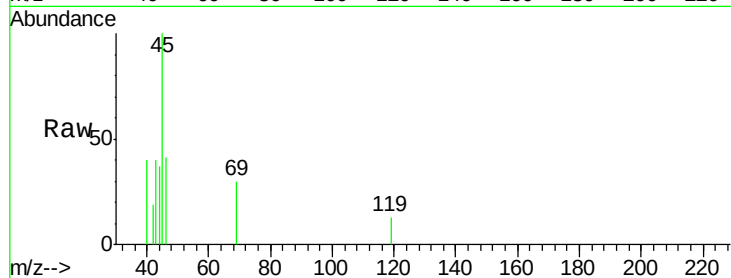
ERD45-INFLUENT-072215

Tgt Ion: 45 Resp: 9061

Ion Ratio Lower Upper

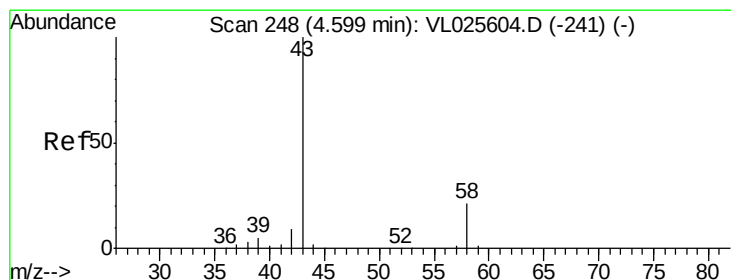
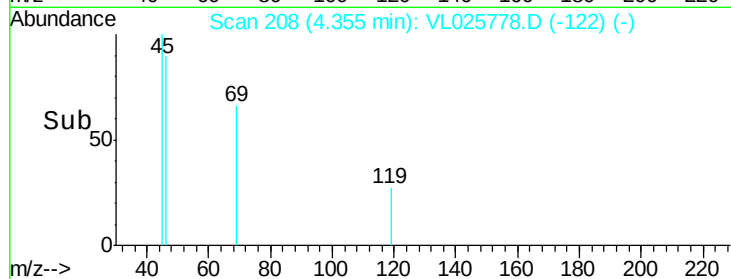
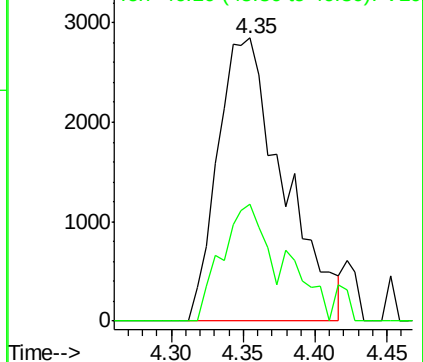
45 100

46 40.5 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: 5.14 ppbv

RT: 4.61 min Scan# 250

Delta R.T. 0.01 min

Lab File: VL025778.D

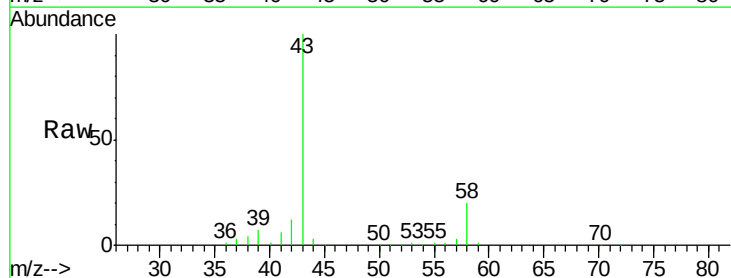
Acq: 28 Jul 2015 7:40

Tgt Ion: 43 Resp: 565042

Ion Ratio Lower Upper

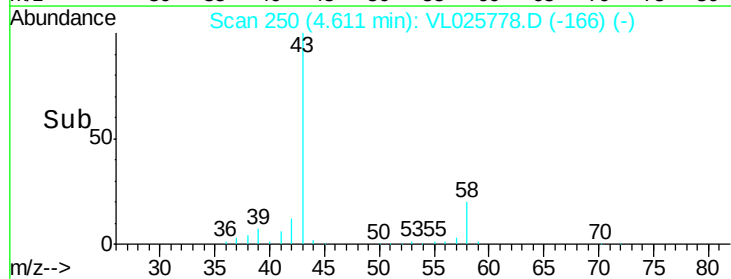
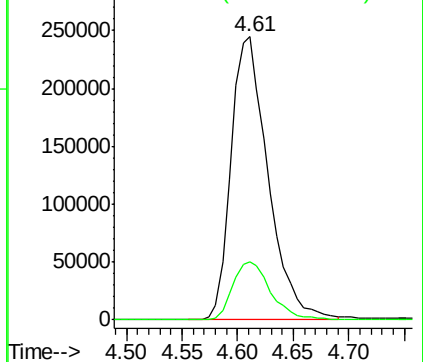
43 100

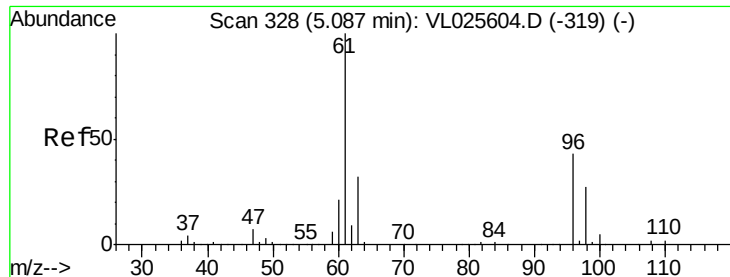
58 21.2 17.2 25.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

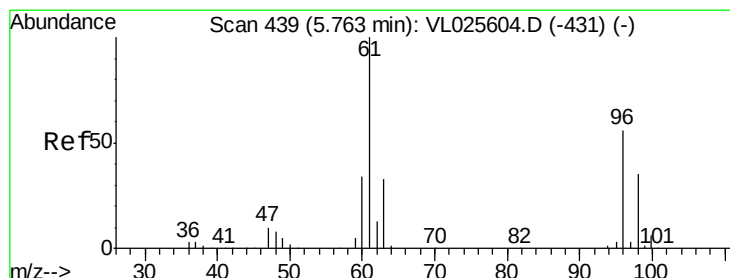
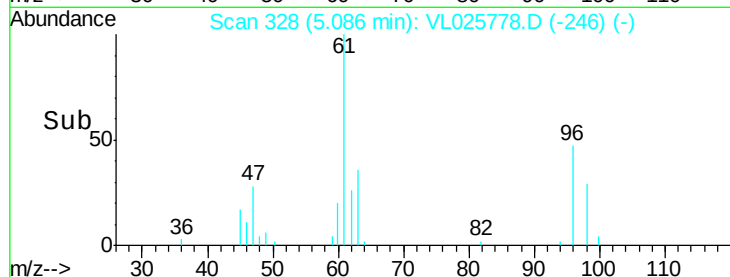
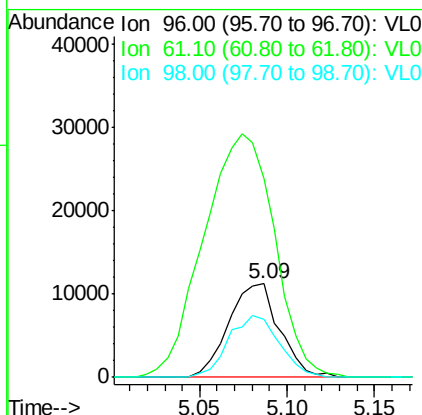
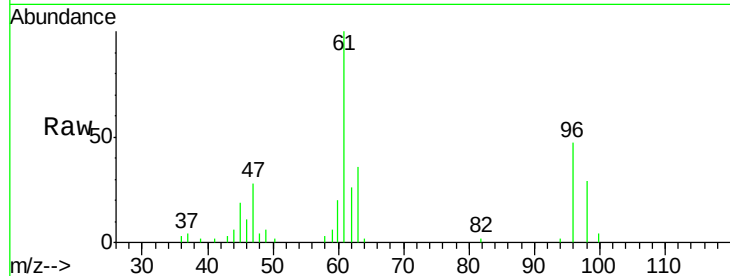




#18
 1,1-Dichloroethene
 Concen: 0.49 ppbv
 RT: 5.09 min Scan# 328
 Delta R.T. -0.00 min
 Lab File: VL025778.D
 Acq: 28 Jul 2015 7:40

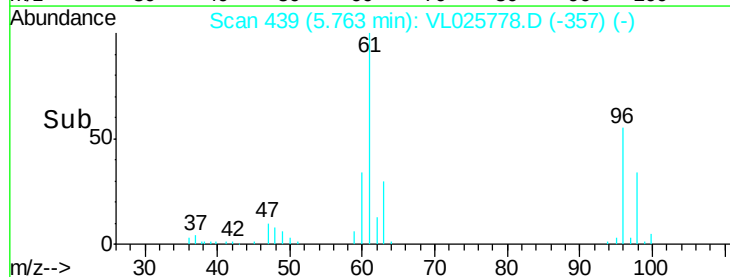
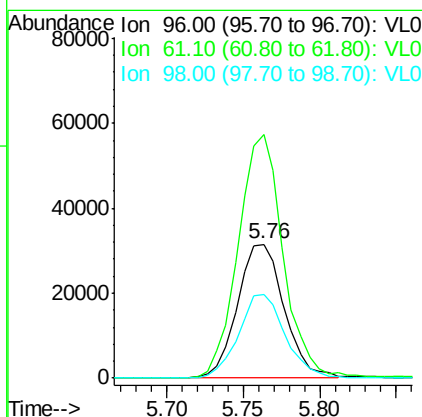
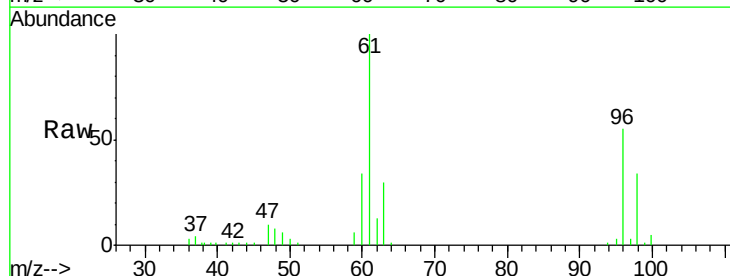
Instrument :
 MSVOA_L
 ClientSampleId :
 ERD45-INFLUENT-072215

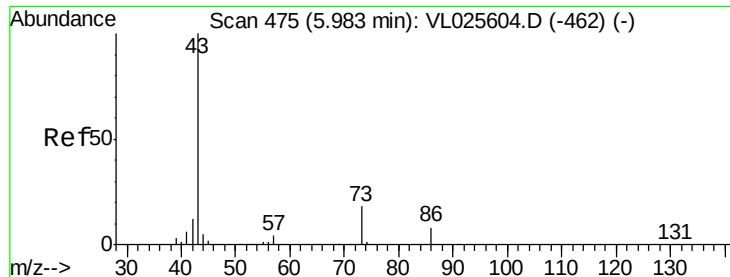
Tgt Ion: 96 Resp: 22699
 Ion Ratio Lower Upper
 96 100
 61 210.4 184.1 276.1
 98 61.9 50.0 75.0



#22
 trans-1,2-Dichloroethene
 Concen: 1.42 ppbv
 RT: 5.76 min Scan# 439
 Delta R.T. -0.00 min
 Lab File: VL025778.D
 Acq: 28 Jul 2015 7:40

Tgt Ion: 96 Resp: 66685
 Ion Ratio Lower Upper
 96 100
 61 181.7 141.8 212.6
 98 61.9 49.0 73.6





#23

Vinyl Acetate

Concen: 0.41 ppbv

RT: 6.01 min Scan# 479

Delta R.T. 0.02 min

Lab File: VL025778.D

Acq: 28 Jul 2015 7:40

Instrument :

MSVOA_L

ClientSampleId :

ERD45-INFLUENT-072215

Tgt Ion: 43 Resp: 67794

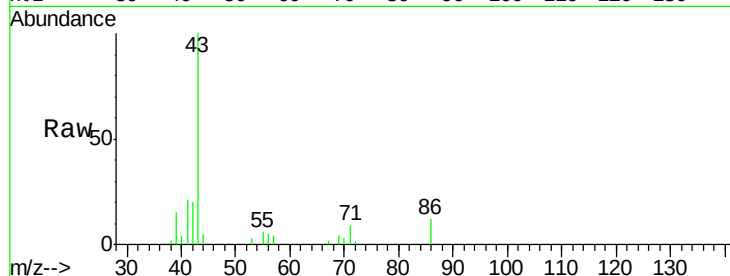
Ion Ratio Lower Upper

43 100

86 12.2 6.7 10.1#

42 18.6 9.8 14.6#

44 4.8 4.1 6.1

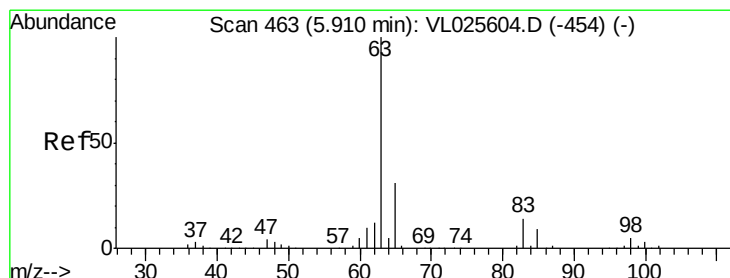
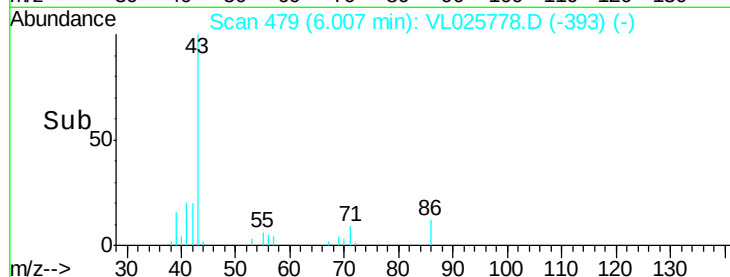
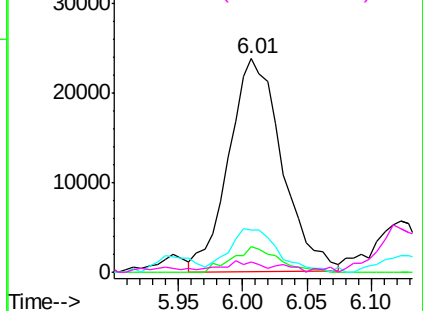


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#24

1,1-Dichloroethane

Concen: 0.14 ppbv

RT: 5.91 min Scan# 463

Delta R.T. -0.00 min

Lab File: VL025778.D

Acq: 28 Jul 2015 7:40

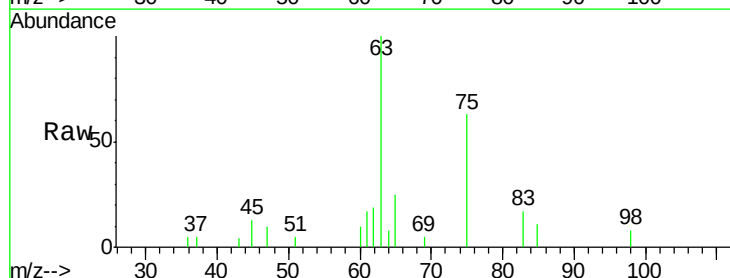
Tgt Ion: 63 Resp: 15520

Ion Ratio Lower Upper

63 100

98 8.4 2.6 8.0#

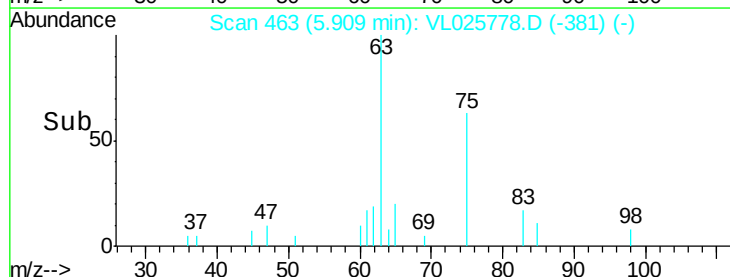
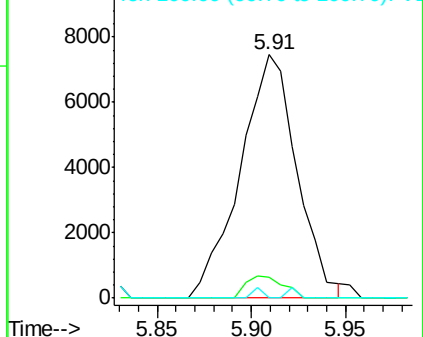
100 0.0 1.6 4.7#

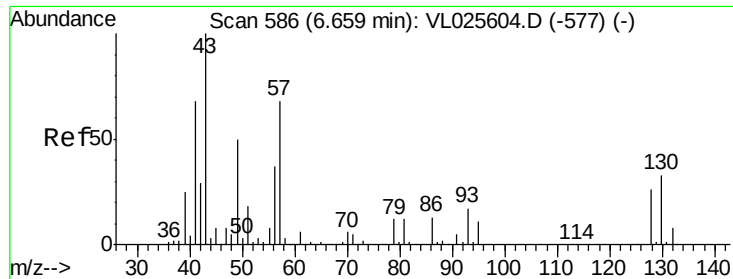


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#26

Hexane

Concen: 0.19 ppbv

RT: 6.65 min Scan# 585

Delta R.T. -0.01 min

Lab File: VL025778.D

Acq: 28 Jul 2015 7:40

Instrument :

MSVOA_L

ClientSampleId :

ERD45-INFLUENT-072215

Tgt Ion: 57 Resp: 14764

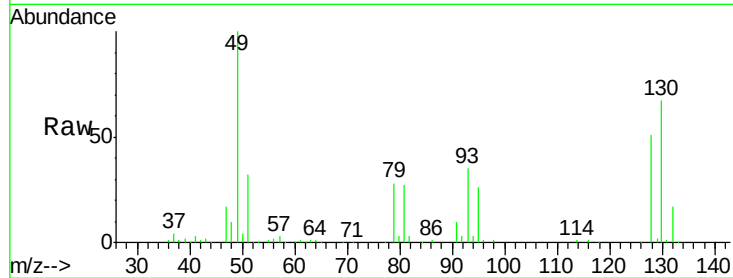
Ion Ratio Lower Upper

57 100

41 113.6 81.4 122.2

43 106.1 171.4 257.2#

56 64.6 44.5 66.7

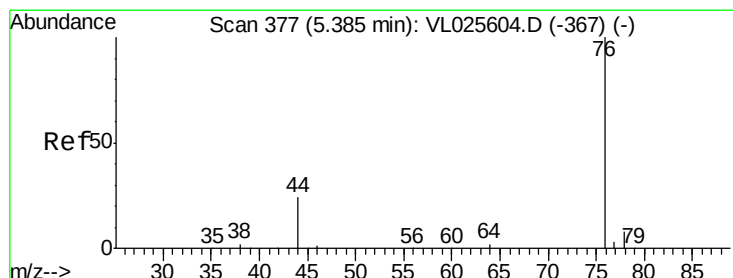
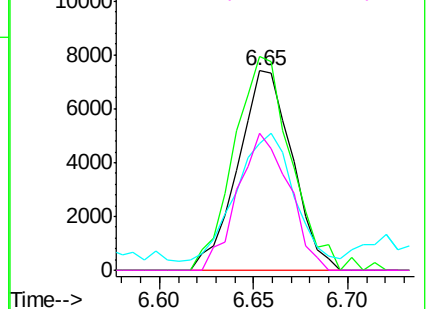
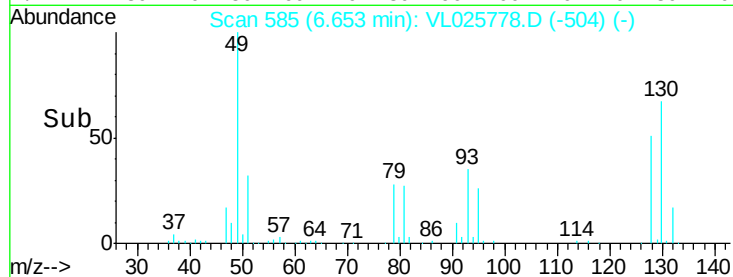


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#27

Carbon Disulfide

Concen: 0.14 ppbv

RT: 5.39 min Scan# 377

Delta R.T. -0.00 min

Lab File: VL025778.D

Acq: 28 Jul 2015 7:40

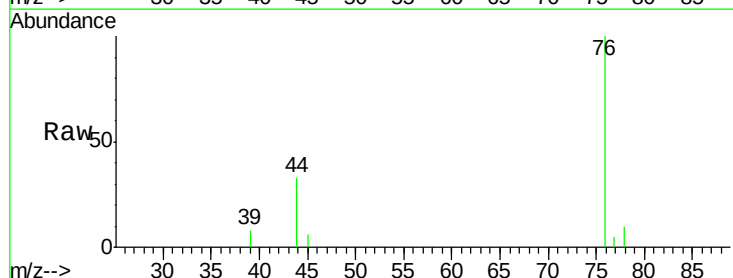
Tgt Ion: 76 Resp: 17650

Ion Ratio Lower Upper

76 100

44 44.3 20.2 30.4#

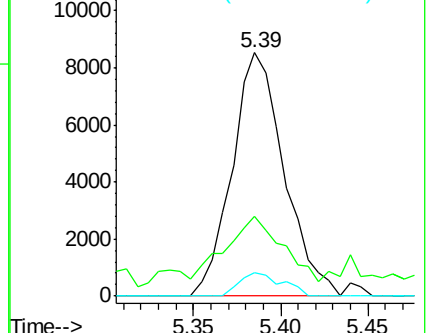
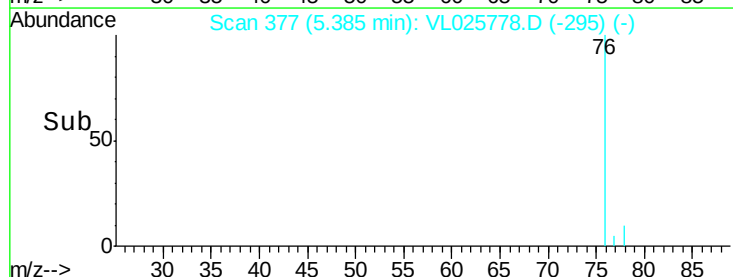
78 7.8 7.4 11.2

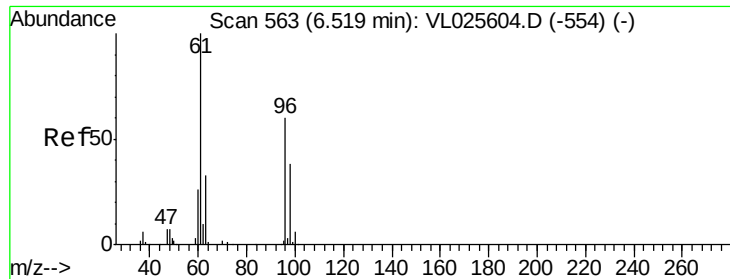


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



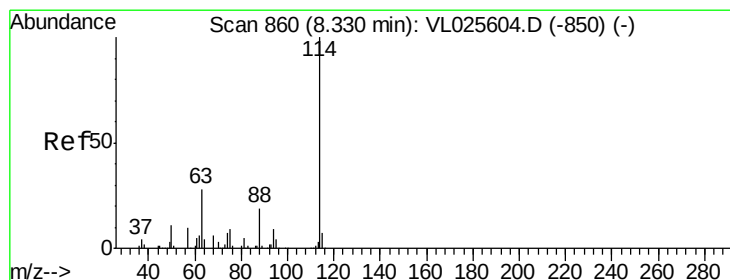
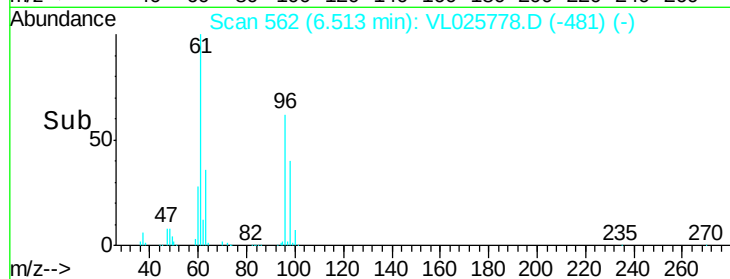
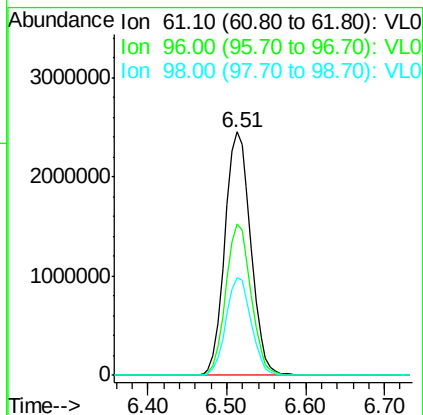
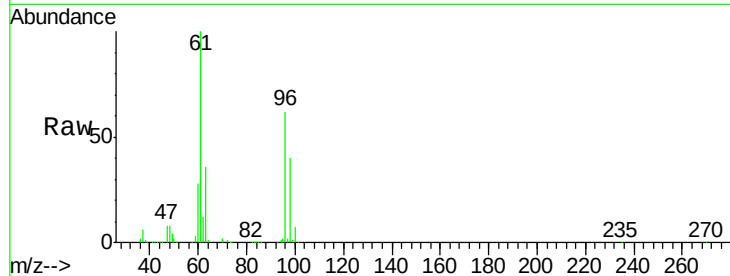


#31

cis-1,2-Dichloroethene
Concen: 72.01 ppbv
RT: 6.51 min Scan# 562
Delta R.T. -0.01 min
Lab File: VL025778.D
Acq: 28 Jul 2015 7:40

Instrument :
MSVOA_L
ClientSampleId :
ERD45-INFLUENT-072215

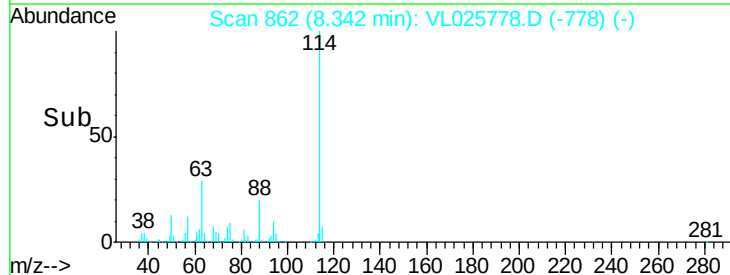
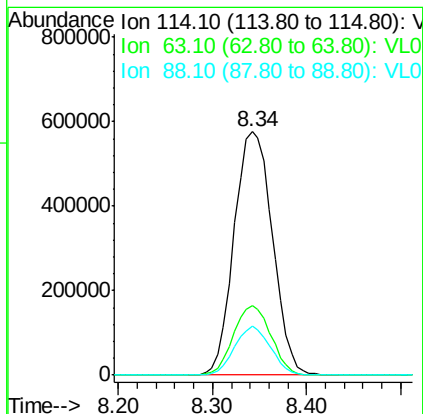
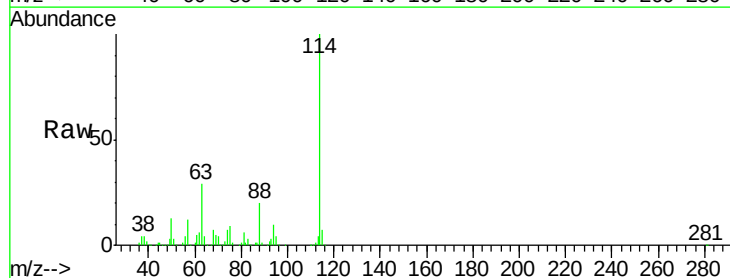
Tgt Ion: 61 Resp: 5602529
Ion Ratio Lower Upper
61 100
96 62.4 48.1 72.1
98 39.9 30.7 46.1

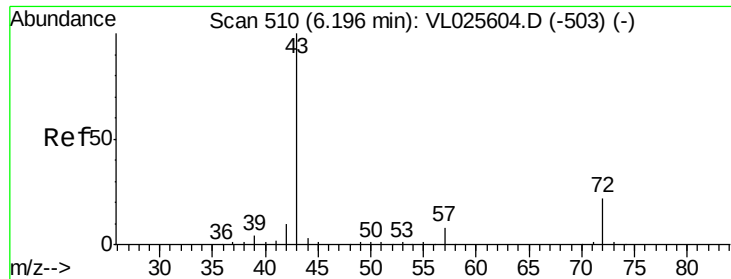


#33

1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 8.34 min Scan# 862
Delta R.T. 0.01 min
Lab File: VL025778.D
Acq: 28 Jul 2015 7:40

Tgt Ion: 114 Resp: 1633631
Ion Ratio Lower Upper
114 100
63 28.0 22.4 33.6
88 18.7 15.0 22.4

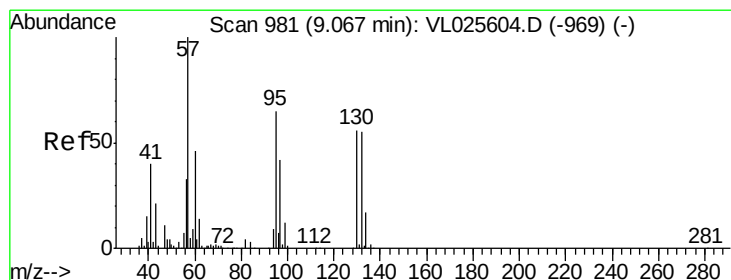
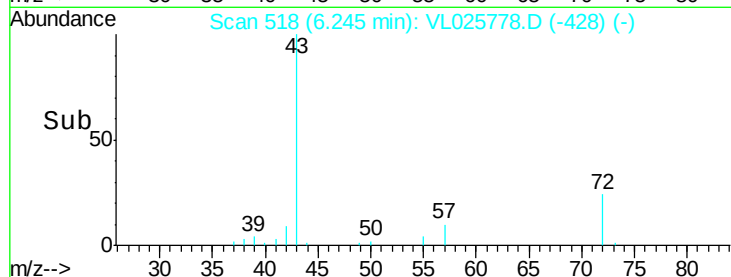
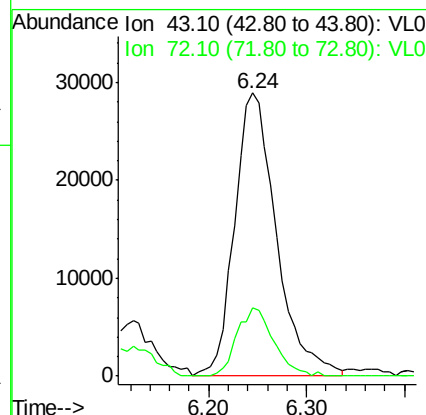
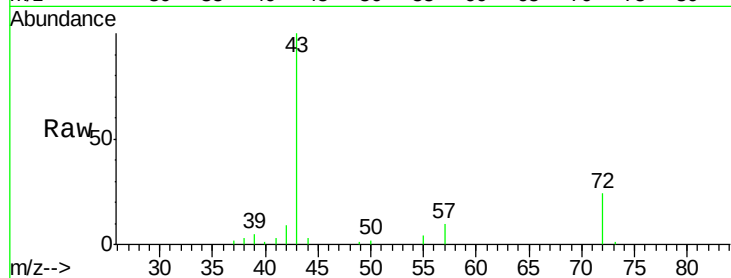




#34
2-Butanone
Concen: 0.93 ppbv
RT: 6.24 min Scan# 518
Delta R.T. 0.05 min
Lab File: VL025778.D
Acq: 28 Jul 2015 7:40

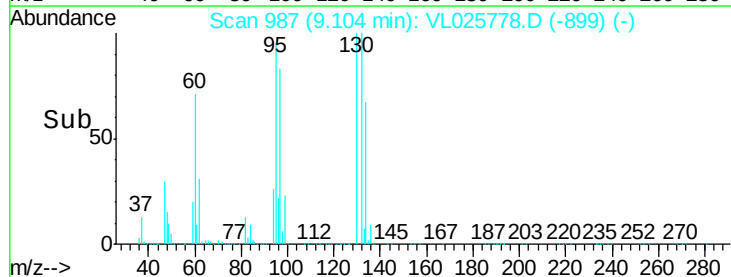
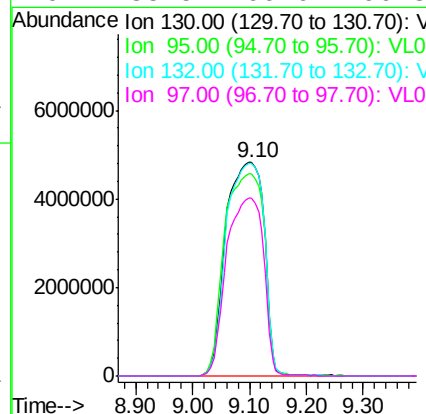
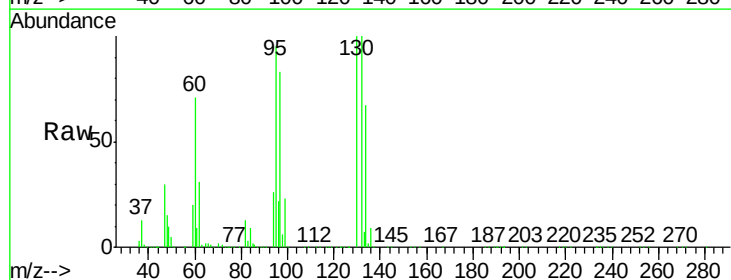
Instrument :
MSVOA_L
ClientSampleId :
ERD45-INFLUENT-072215

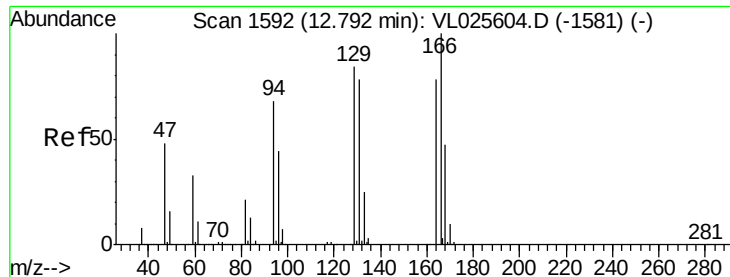
Tgt Ion: 43 Resp: 85909
Ion Ratio Lower Upper
43 100
72 21.2 18.6 28.0



#38
Trichloroethene
Concen: 309.99 ppbv
RT: 9.10 min Scan# 987
Delta R.T. 0.04 min
Lab File: VL025778.D
Acq: 28 Jul 2015 7:40

Tgt Ion: 130 Resp: 22550043
Ion Ratio Lower Upper
130 100
95 94.7 94.2 141.4
132 99.6 78.6 118.0
97 83.5 60.6 90.8





#52

Tetrachloroethene

Concen: 2.69 ppbv

RT: 12.80 min Scan# 1594

Delta R.T. 0.01 min

Lab File: VL025778.D

Acq: 28 Jul 2015 7:40

Instrument :

MSVOA_L

ClientSampleId :

ERD45-INFLUENT-072215

Tgt Ion: 164 Resp: 210786

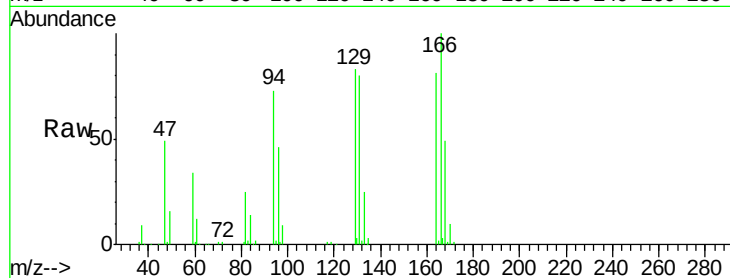
Ion Ratio Lower Upper

164 100

166 122.7 102.3 153.5

129 102.2 86.2 129.4

131 98.9 80.3 120.5

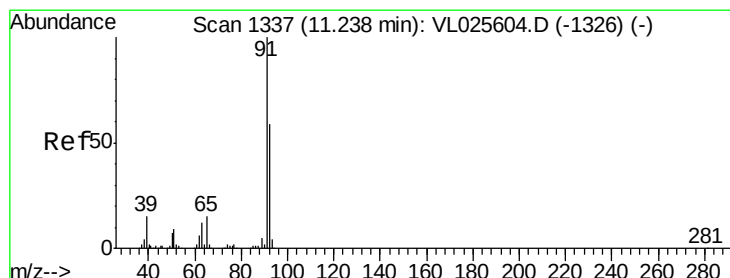
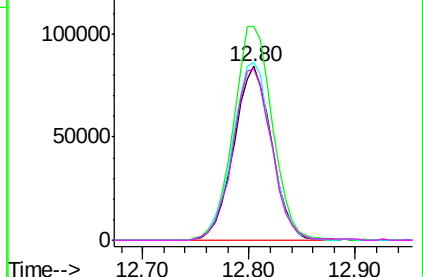
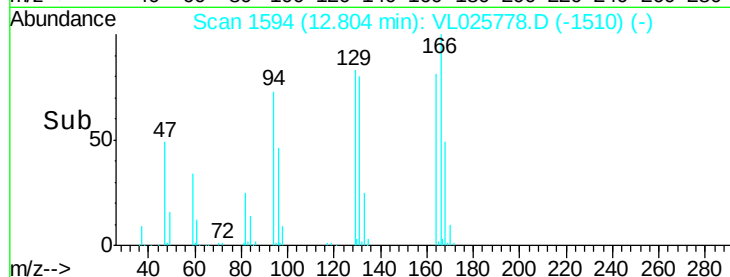


Abundance Ion 163.90 (163.60 to 164.60): V

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



#53

Toluene

Concen: 0.29 ppbv

RT: 11.26 min Scan# 1340

Delta R.T. 0.02 min

Lab File: VL025778.D

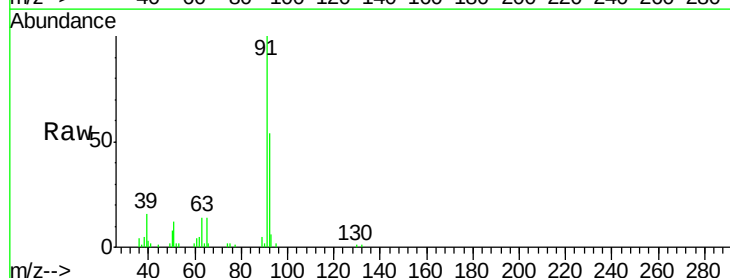
Acq: 28 Jul 2015 7:40

Tgt Ion: 91 Resp: 63543

Ion Ratio Lower Upper

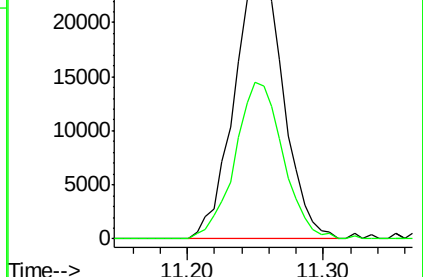
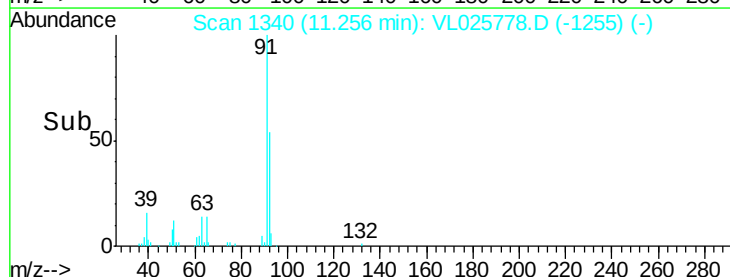
91 100

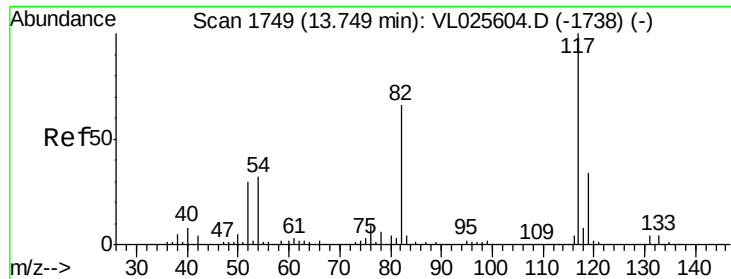
92 56.5 48.2 72.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

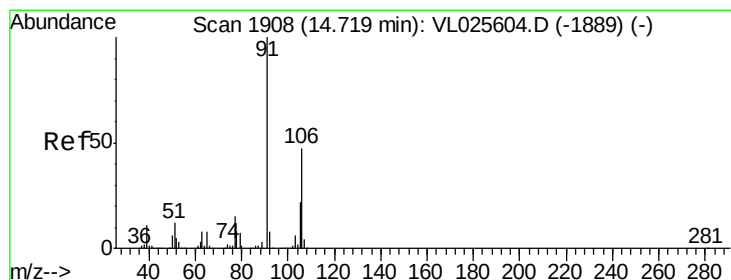
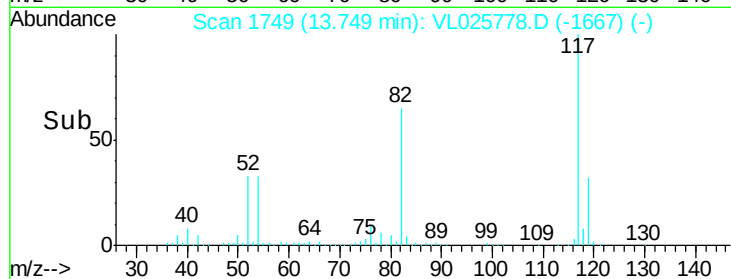
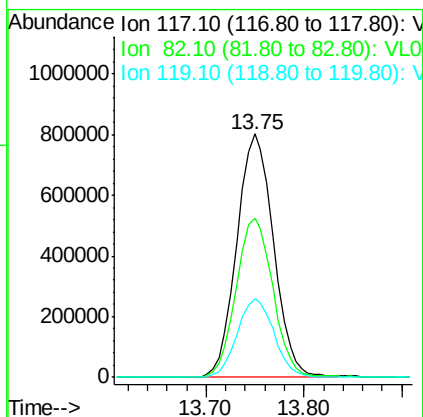
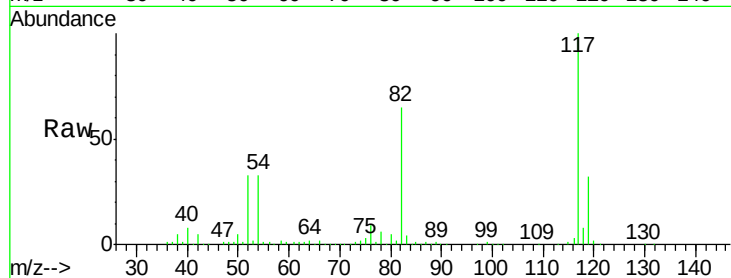




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.75 min Scan# 1749
Delta R.T. -0.00 min
Lab File: VL025778.D
Acq: 28 Jul 2015 7:40

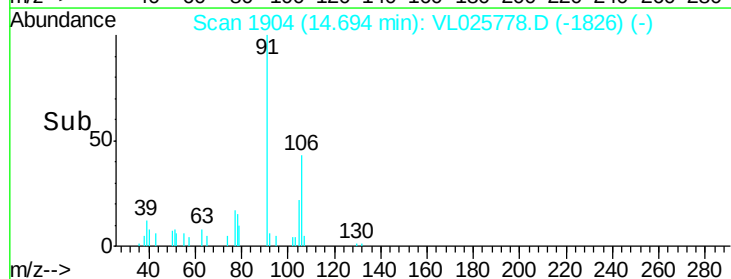
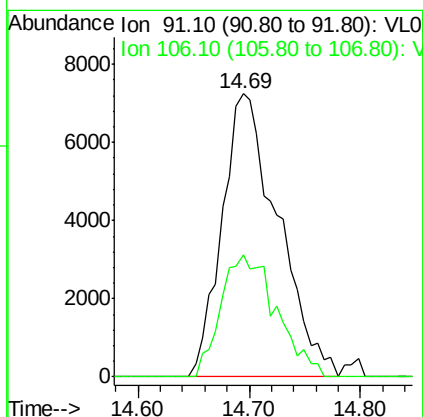
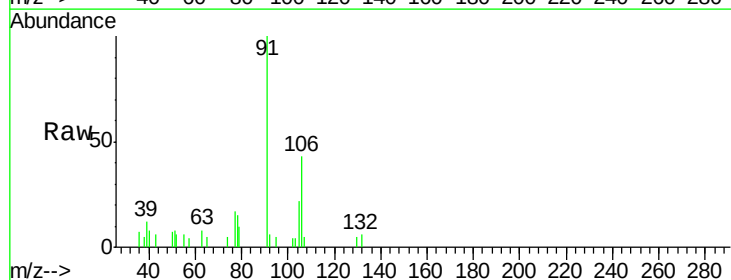
Instrument :
MSVOA_L
ClientSampleId :
ERD45-INFLUENT-072215

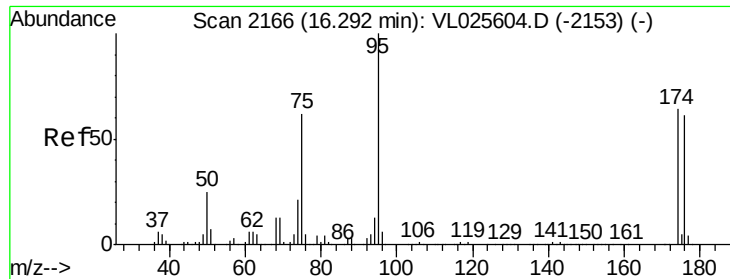
Tgt Ion: 117 Resp: 2093315
Ion Ratio Lower Upper
117 100
82 66.4 50.5 75.7
119 32.7 45.1 67.7#



#59
m/p-Xylene
Concen: 0.08 ppbv
RT: 14.69 min Scan# 1904
Delta R.T. -0.02 min
Lab File: VL025778.D
Acq: 28 Jul 2015 7:40

Tgt Ion: 91 Resp: 25294
Ion Ratio Lower Upper
91 100
106 42.5 37.9 56.9





#68

1-Bromo-4-Fluorobenzene

Concen: 10.48 ppbv

RT: 16.29 min Scan# 2165

Delta R.T. -0.01 min

Lab File: VL025778.D

Acq: 28 Jul 2015 7:40

Instrument :

MSVOA_L

ClientSampleId :

ERD45-INFLUENT-072215

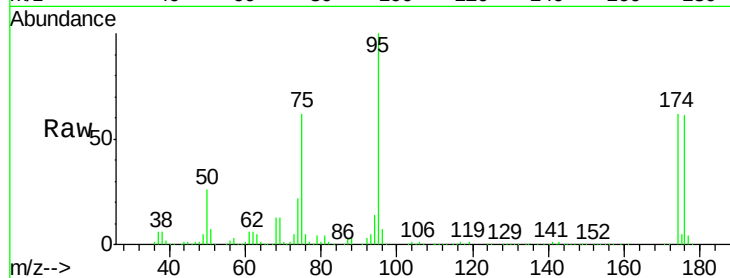
Tgt Ion: 95 Resp: 1851149

Ion Ratio Lower Upper

95 100

174 62.9 52.0 78.0

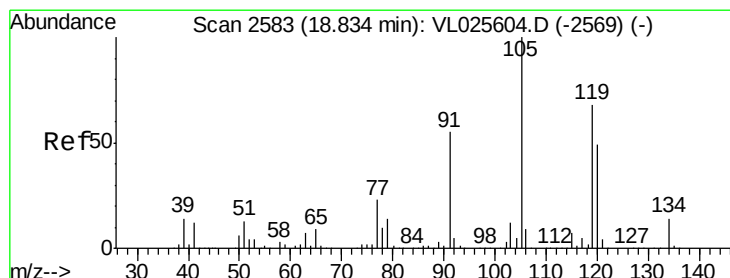
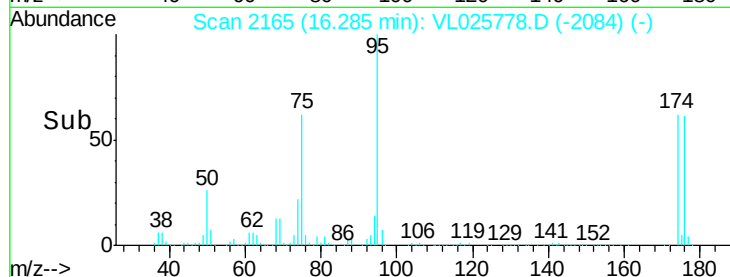
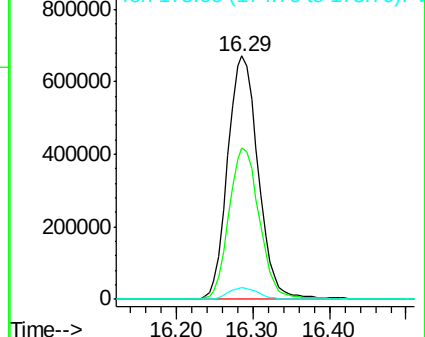
175 4.8 3.9 5.9



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



#74

1,2,4-Trimethylbenzene

Concen: 0.15 ppbv

RT: 18.83 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VL025778.D

Acq: 28 Jul 2015 7:40

Tgt Ion: 105 Resp: 60734

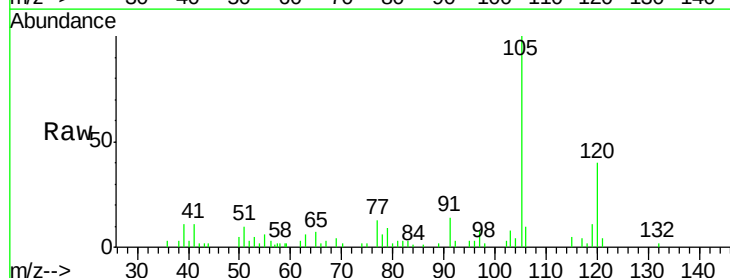
Ion Ratio Lower Upper

105 100

120 40.0 39.3 58.9

91 14.2 43.8 65.6#

77 13.3 18.3 27.5#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

