

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL072715\
 Data File : VL025769.D
 Acq On : 28 Jul 2015 1:40
 Operator : SY/MD
 Sample : G3040-06 40X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ERD45-EFFLUENT-072215DL

Quant Time: Jul 28 04:13:09 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL070715AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed 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	881136	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.32	114	2265913	10.00	ppbv	-0.01
55) Chlorobenzene-d5	13.74	117	2745859	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.28	95	2335920	10.08	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.80%

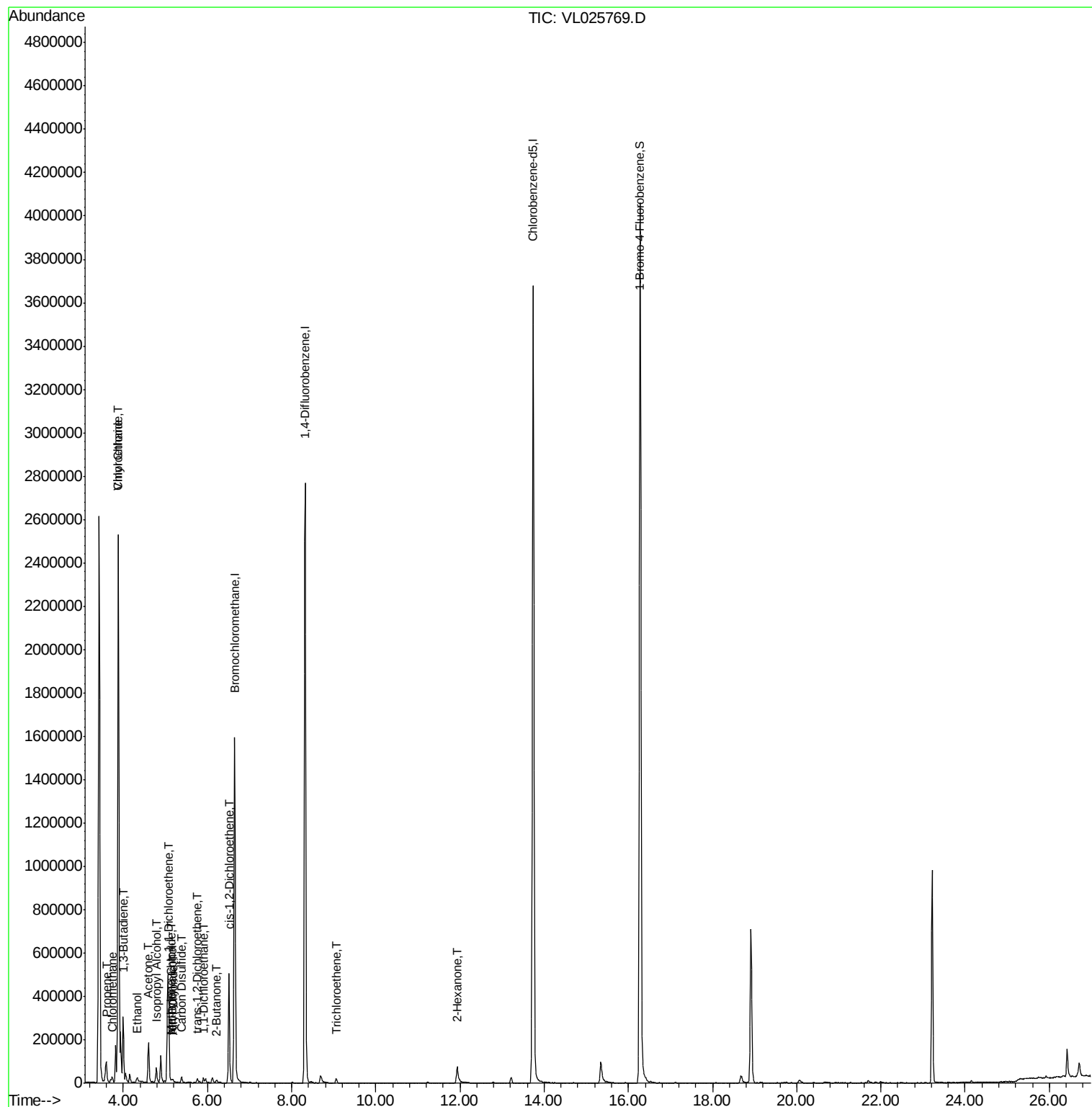
Target Compounds						Ovalue
4) Chloromethane	3.75	50	3360	0.06	ppbv	89
5) Vinyl Chloride	3.88	62	2807479	45.90	ppbv	97
7) Chloroethane	3.88	64	913845	32.09	ppbv #	45
9) Propene	3.59	41	47601	1.15	ppbv	92
13) Ethanol	4.34	45	24855	3.87	ppbv	98
15) Acetone	4.60	43	104840	0.67	ppbv	97
16) 1,3-Butadiene	4.00	39	57277	0.92	ppbv #	14
17) tert-Butyl alcohol	5.18	59	14638	0.11	ppbv	100
18) 1,1-Dichloroethene	5.08	96	95065	1.46	ppbv	93
19) Isopropyl Alcohol	4.79	45	4314	0.07	ppbv #	1
20) Methylene Chloride	5.15	84	4195	0.07	ppbv #	85
21) Allyl Chloride	5.18	41	3009	0.03	ppbv #	81
22) trans-1,2-Dichloroethene	5.76	96	7998	0.12	ppbv #	67
24) 1,1-Dichloroethane	5.90	63	20826	0.13	ppbv #	96
27) Carbon Disulfide	5.39	76	40770	0.23	ppbv	93
31) cis-1,2-Dichloroethene	6.51	61	344507	3.13	ppbv	97
34) 2-Butanone	6.21	43	7975	0.06	ppbv #	52
38) Trichloroethene	9.06	130	6796	0.07	ppbv #	77
51) 2-Hexanone	11.93	43	20824	0.13	ppbv #	29

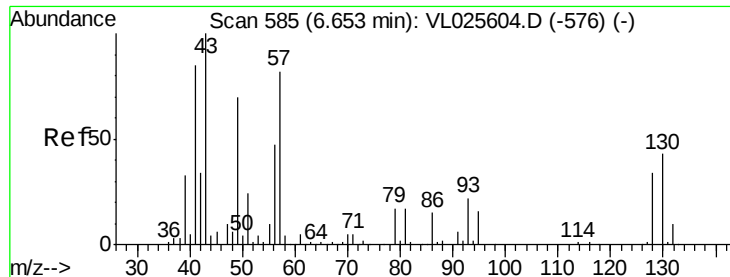
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.65 min Scan# 584

Delta R.T. -0.01 min

Lab File: VL025769.D

Acq: 28 Jul 2015 1:40

Instrument :

MSVOA_L

ClientSampleId :

ERD45-EFFLUENT-072215DL

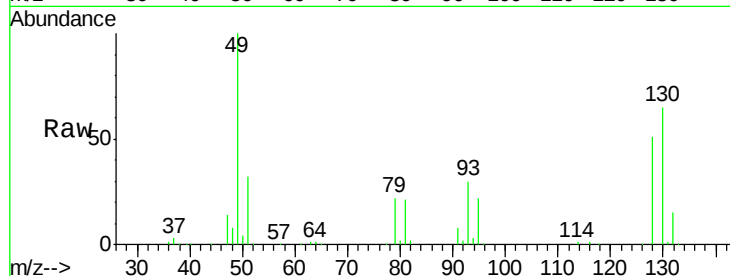
Tot Ion: 49 Resp: 881136

Ion Ratio Lower Upper

49 100

128 50.2 25.4 76.0

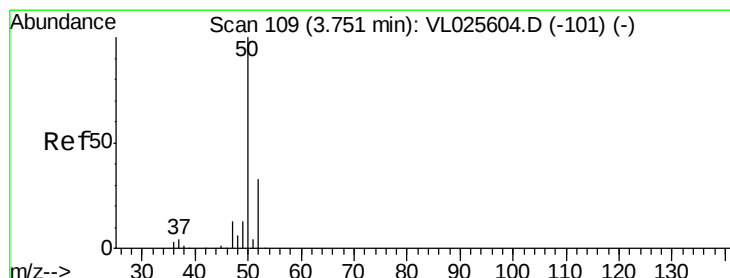
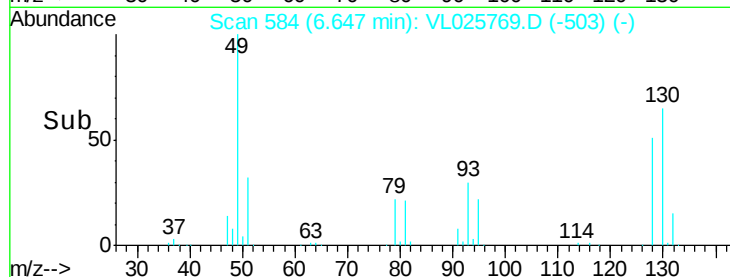
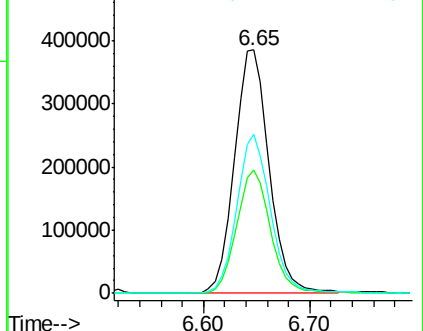
130 64.5 31.9 95.9



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#4

Chloromethane

Concen: 0.06 ppbv

RT: 3.75 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL025769.D

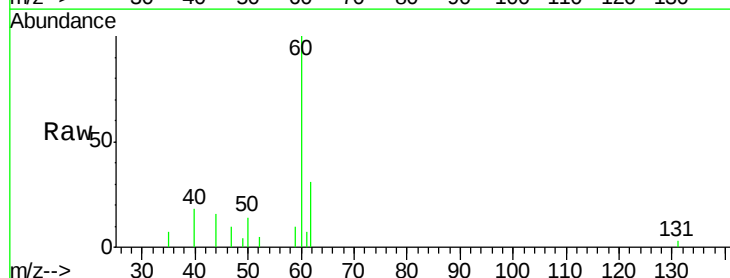
Acq: 28 Jul 2015 1:40

Tgt Ion: 50 Resp: 3360

Ion Ratio Lower Upper

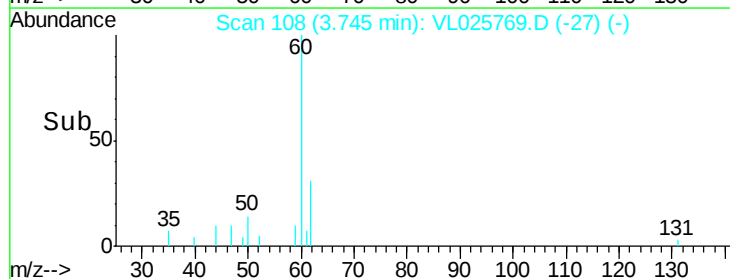
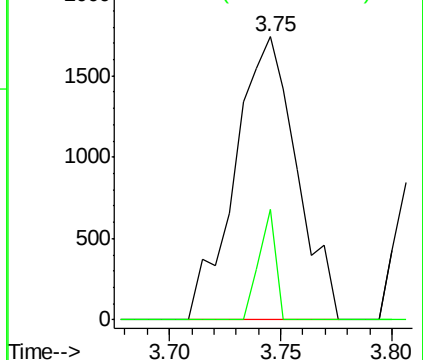
50 100

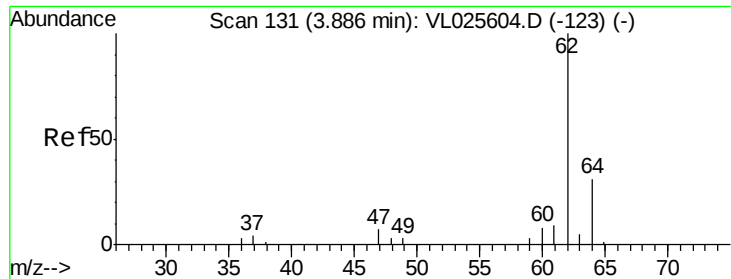
52 39.0 26.2 39.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 45.90 ppbv

RT: 3.88 min Scan# 130

Delta R.T. -0.01 min

Lab File: VL025769.D

Acq: 28 Jul 2015 1:40

Instrument :

MSVOA_L

ClientSampleId :

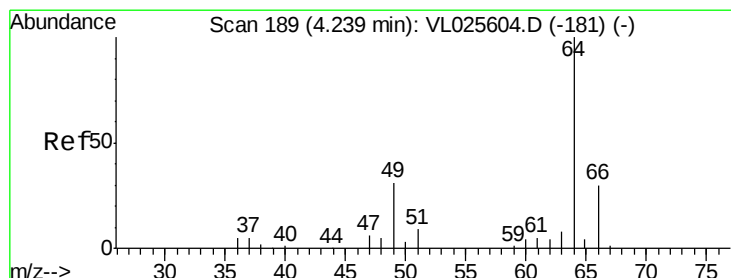
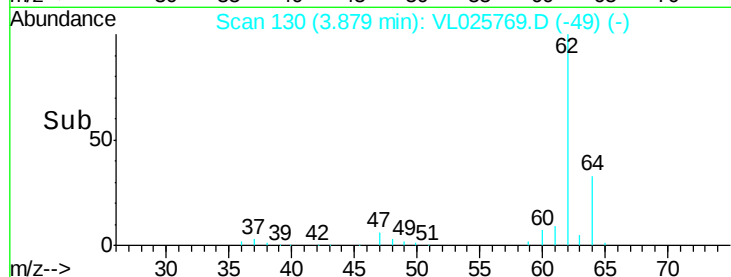
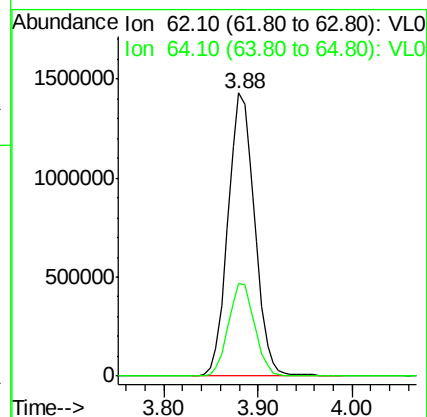
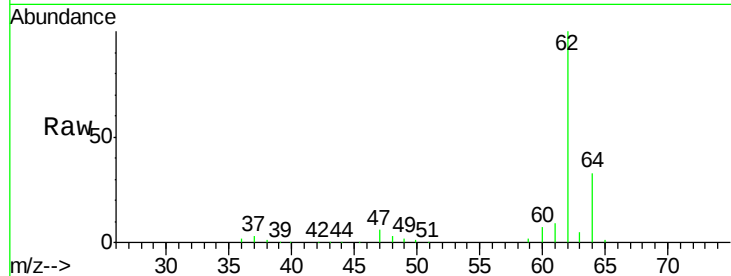
ERD45-EFFLUENT-072215DL

Tot Ion: 62 Resp: 2807479

Ion Ratio Lower Upper

62 100

64 32.7 25.0 37.6



#7

Chloroethane

Concen: 32.09 ppbv

RT: 3.88 min Scan# 130

Delta R.T. -0.36 min

Lab File: VL025769.D

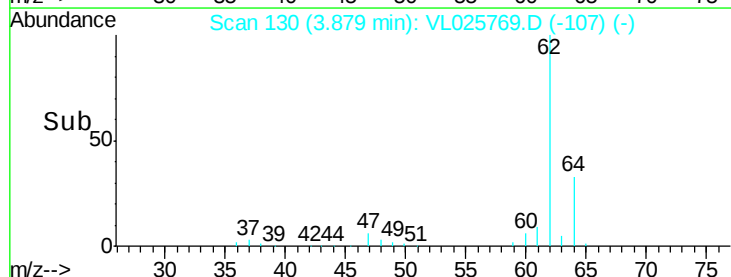
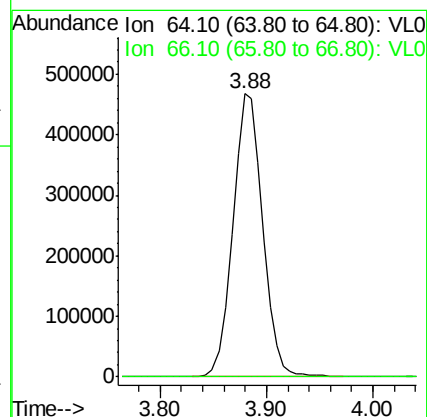
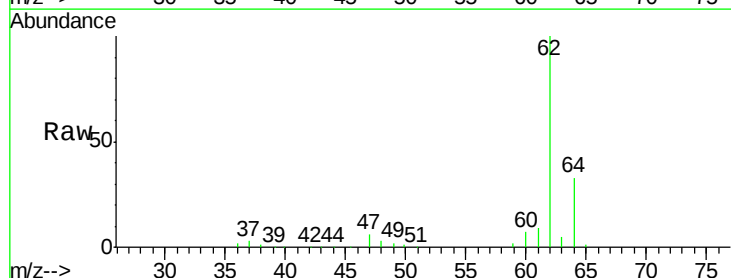
Acq: 28 Jul 2015 1:40

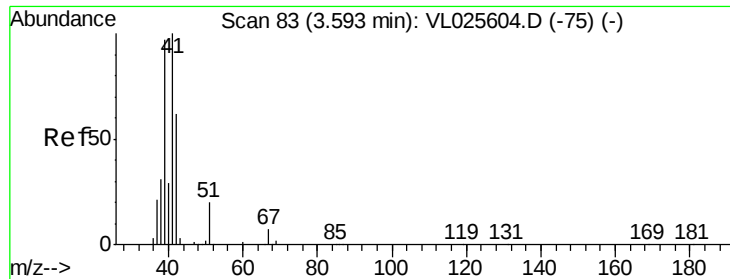
Tgt Ion: 64 Resp: 913845

Ion Ratio Lower Upper

64 100

66 0.0 23.8 35.8#





#9

Propene

Concen: 1.15 ppbv

RT: 3.59 min Scan# 83

Delta R.T. -0.00 min

Lab File: VL025769.D

Acq: 28 Jul 2015 1:40

Instrument :

MSVOA_L

ClientSampleId :

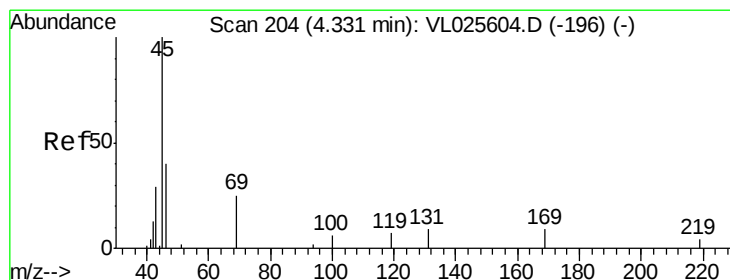
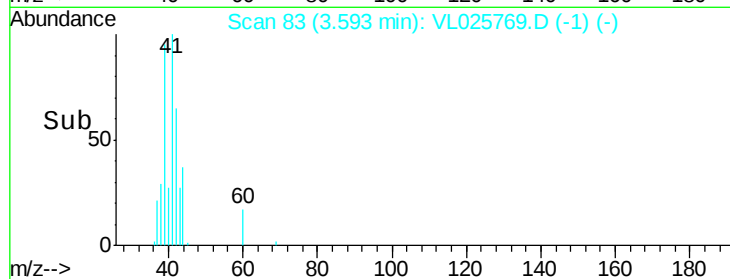
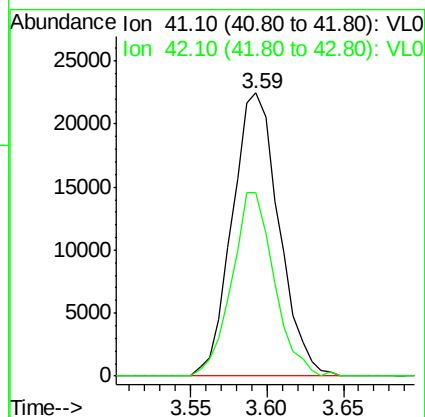
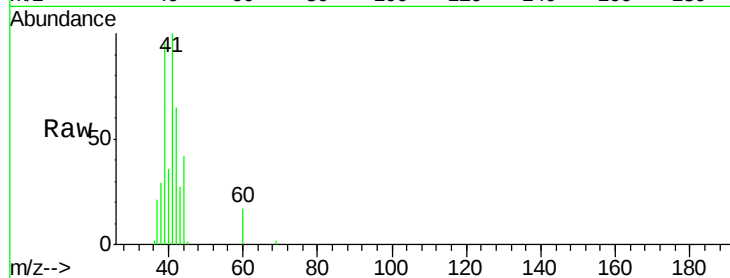
ERD45-EFFLUENT-072215DL

Tot Ion: 41 Resp: 47601

Ion Ratio Lower Upper

41 100

42 58.8 52.4 78.6



#13

Ethanol

Concen: 3.87 ppbv

RT: 4.34 min Scan# 205

Delta R.T. 0.01 min

Lab File: VL025769.D

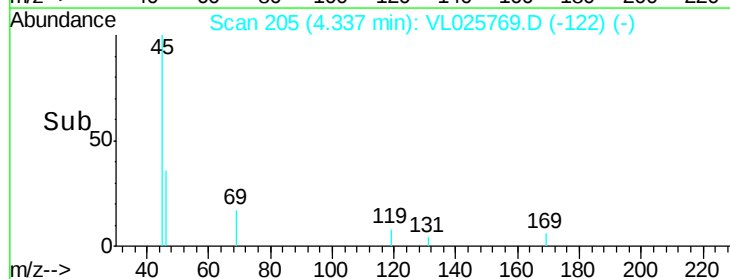
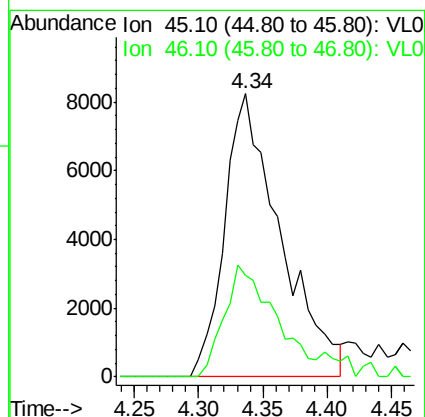
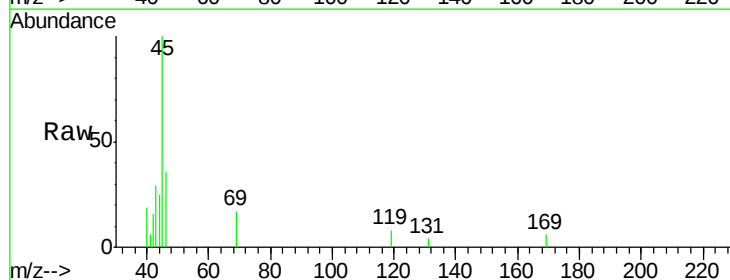
Acq: 28 Jul 2015 1:40

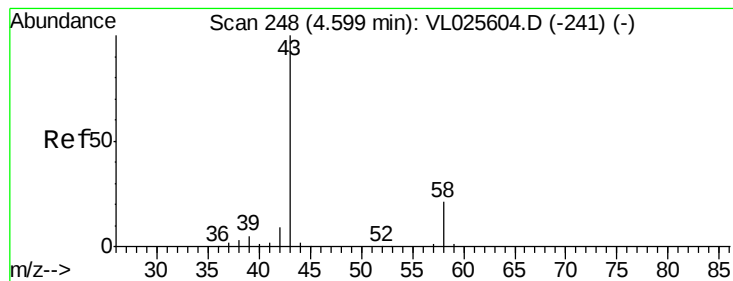
Tgt Ion: 45 Resp: 24855

Ion Ratio Lower Upper

45 100

46 41.1 16.0 64.0





#15

Acetone

Concen: 0.67 ppbv

RT: 4.60 min Scan# 249

Delta R.T. 0.01 min

Lab File: VL025769.D

Acq: 28 Jul 2015 1:40

Instrument :

MSVOA_L

ClientSampleId :

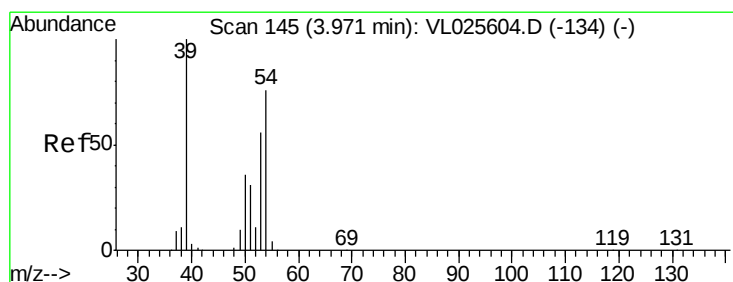
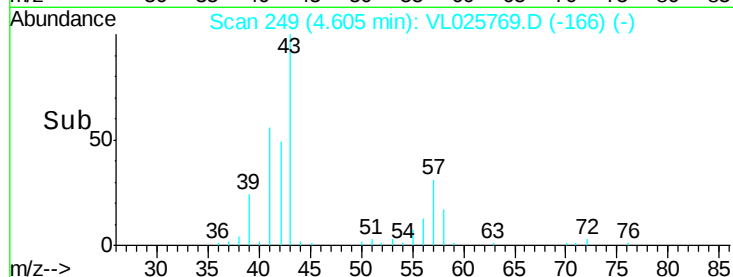
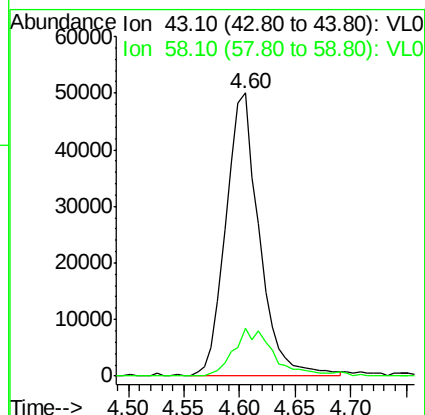
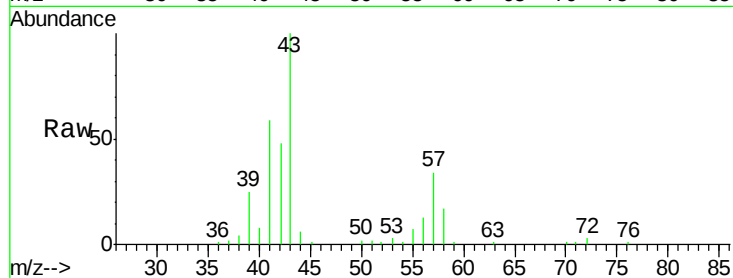
ERD45-EFFLUENT-072215DL

Tot Ion: 43 Resp: 104840

Ion Ratio Lower Upper

43 100

58 20.2 17.2 25.8



#16

1,3-Butadiene

Concen: 0.92 ppbv

RT: 4.00 min Scan# 149

Delta R.T. 0.02 min

Lab File: VL025769.D

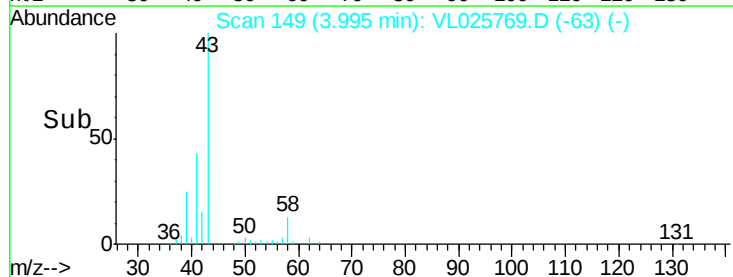
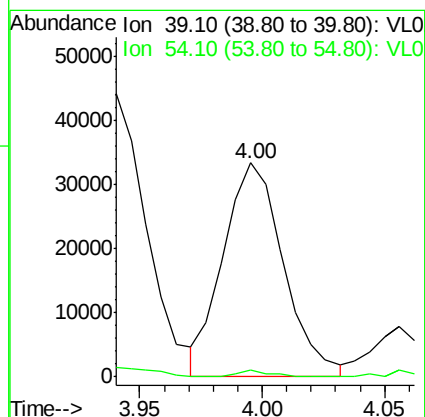
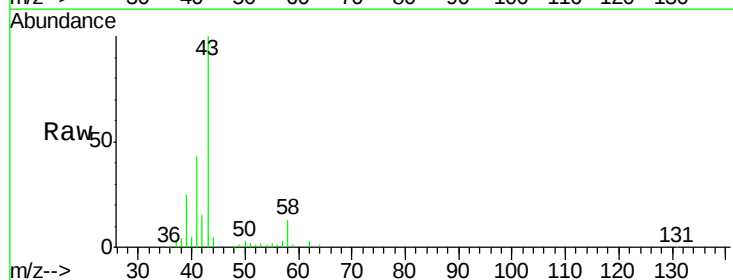
Acq: 28 Jul 2015 1:40

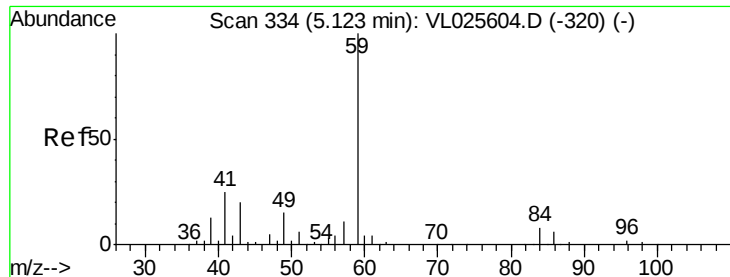
Tgt Ion: 39 Resp: 57277

Ion Ratio Lower Upper

39 100

54 1.6 59.3 88.9#



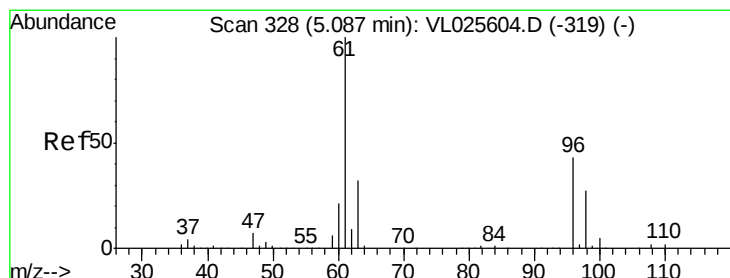
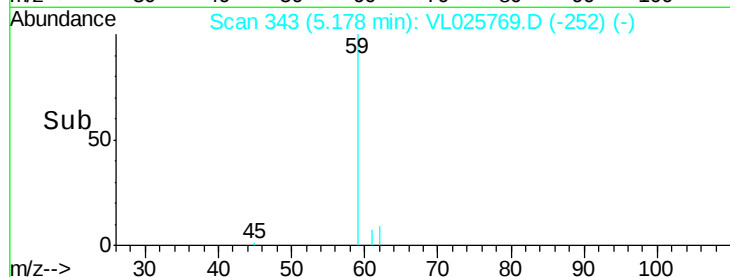
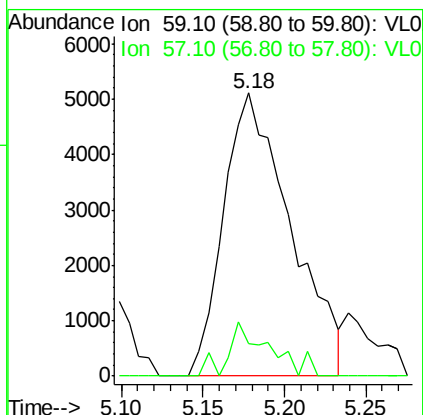
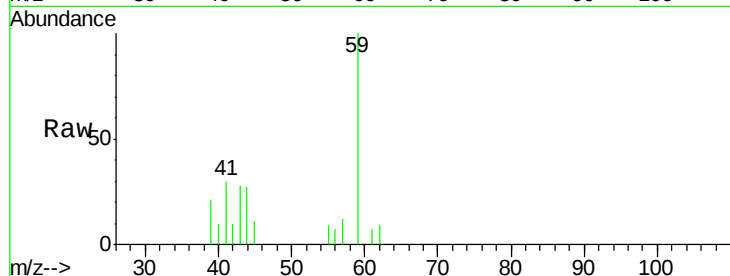


#17

tert-Butyl alcohol
 Concen: 0.11 ppbv
 RT: 5.18 min Scan# 343
 Delta R.T. 0.05 min
 Lab File: VL025769.D
 Acq: 28 Jul 2015 1:40

Instrument :
 MSVOA_L
 ClientSampleId :
 ERD45-EFFLUENT-072215DL

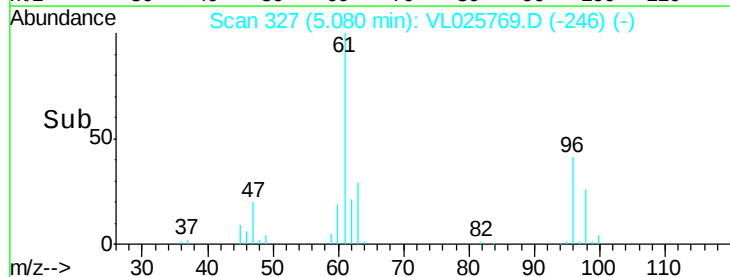
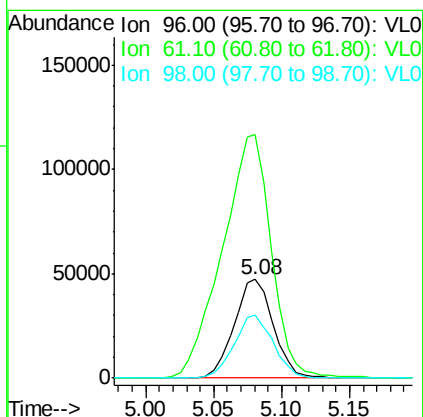
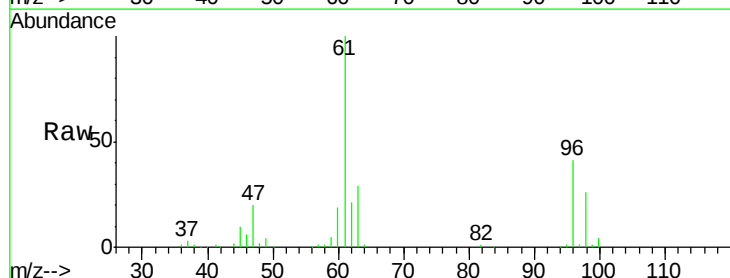
Tot Ion: 59 Resp: 14638
 Ion Ratio Lower Upper
 59 100
 57 11.8 9.4 14.2

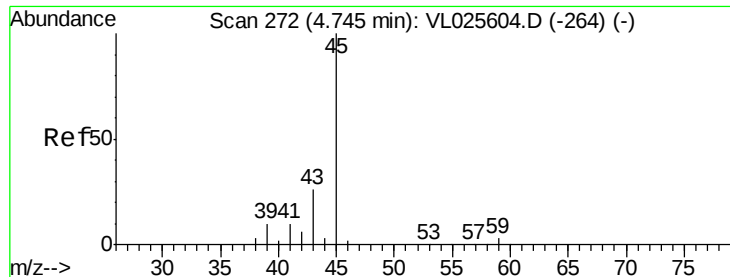


#18

1,1-Dichloroethene
 Concen: 1.46 ppbv
 RT: 5.08 min Scan# 327
 Delta R.T. -0.01 min
 Lab File: VL025769.D
 Acq: 28 Jul 2015 1:40

Tgt Ion: 96 Resp: 95065
 Ion Ratio Lower Upper
 96 100
 61 244.9 184.1 276.1
 98 63.6 50.0 75.0





#19

Isopropyl Alcohol

Concen: 0.07 ppbv

RT: 4.79 min Scan# 280

Delta R.T. 0.05 min

Lab File: VL025769.D

Acq: 28 Jul 2015 1:40

Instrument :

MSVOA_L

ClientSampleId :

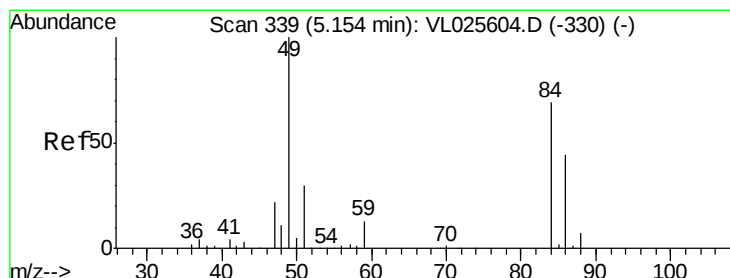
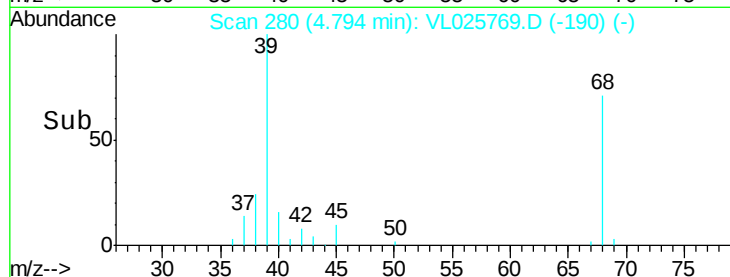
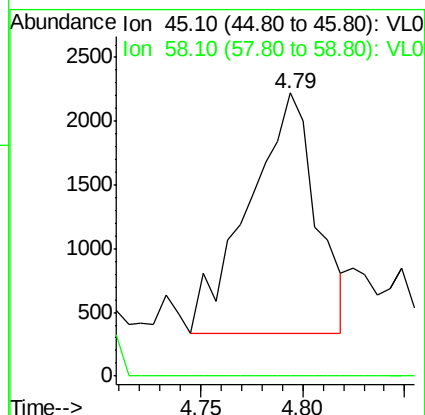
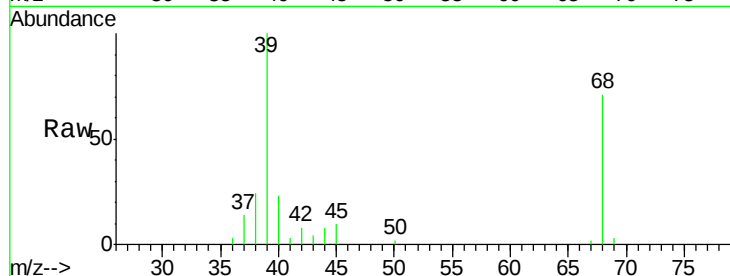
ERD45-EFFLUENT-072215DL

Tot Ion: 45 Resp: 4314

Ion Ratio Lower Upper

45 100

58 490.3 1.1 1.7#



#20

Methylene Chloride

Concen: 0.07 ppbv

RT: 5.15 min Scan# 338

Delta R.T. -0.01 min

Lab File: VL025769.D

Acq: 28 Jul 2015 1:40

Tgt Ion: 84 Resp: 4195

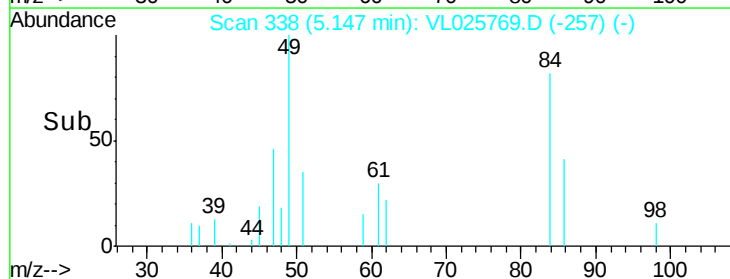
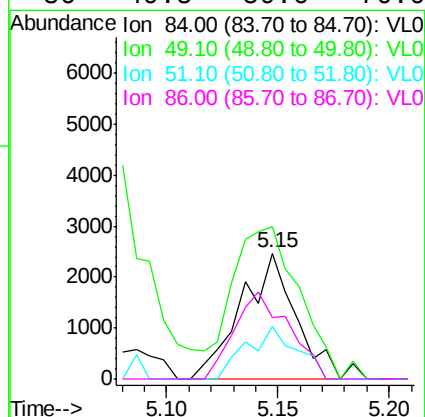
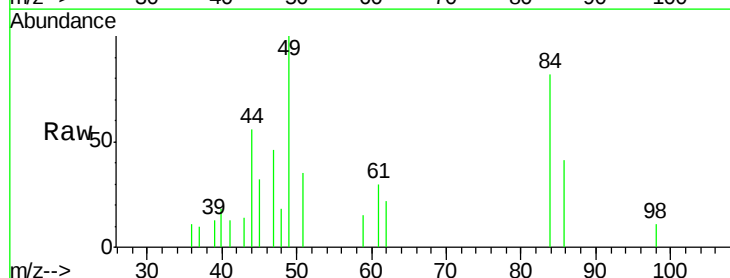
Ion Ratio Lower Upper

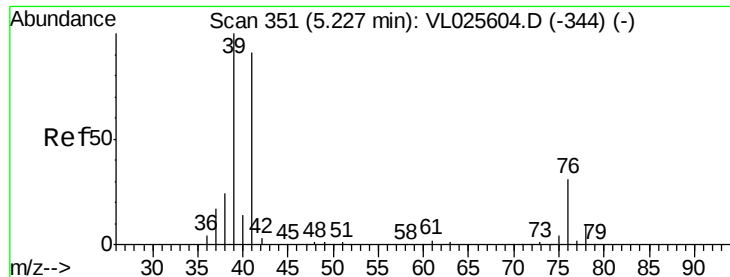
84 100

49 121.6 115.2 172.8

51 42.3 35.0 52.6

86 49.5 50.6 76.0#

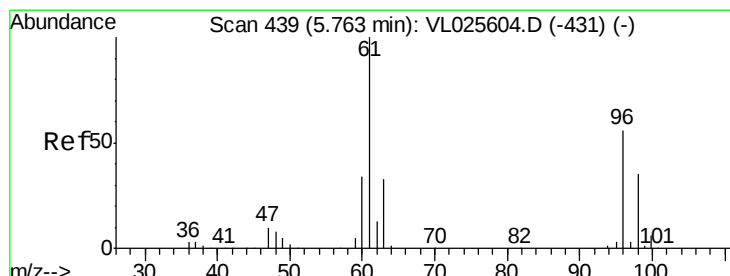
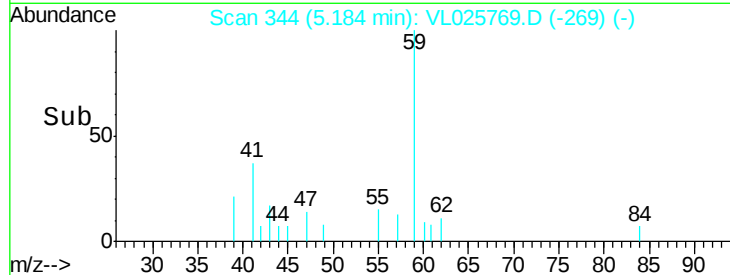
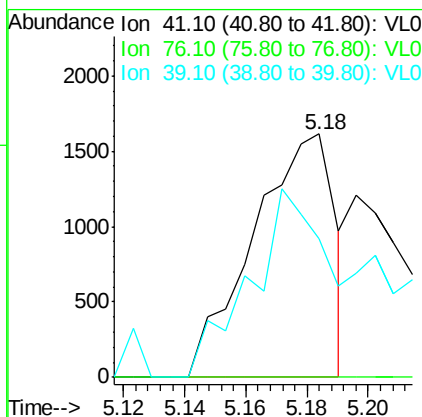
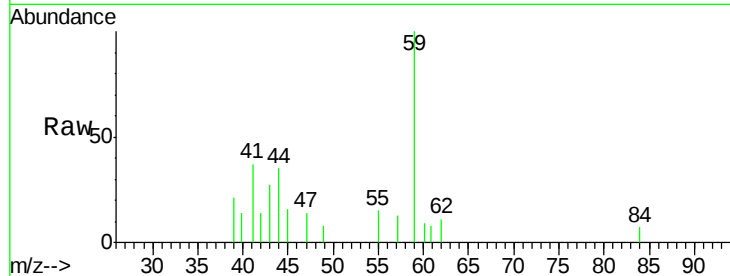




#21
 Allvl Chloride
 Concen: 0.03 ppbv
 RT: 5.18 min Scan# 344
 Delta R.T. -0.04 min
 Lab File: VL025769.D
 Acq: 28 Jul 2015 1:40

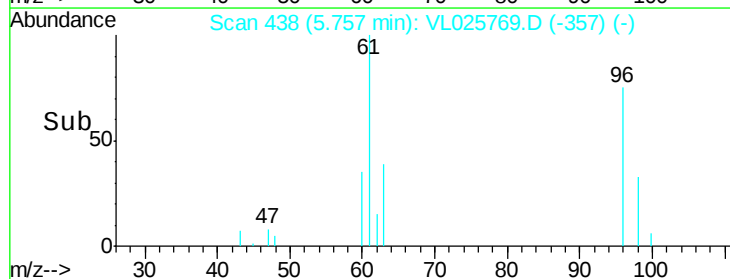
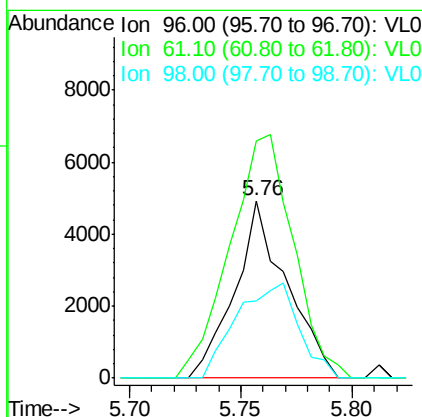
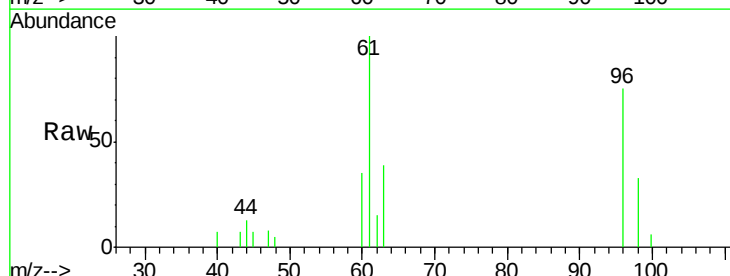
Instrument :
 MSVOA_L
 ClientSampleId :
 ERD45-EFFLUENT-072215DL

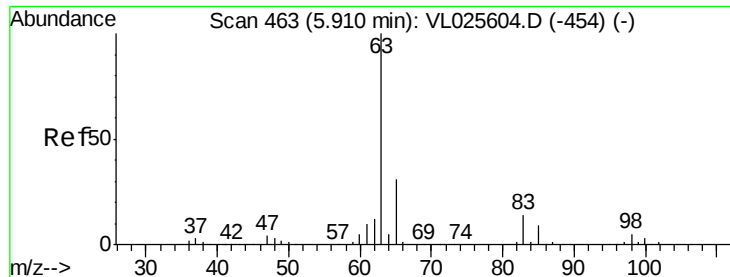
Tot Ion: 41 Resp: 3009
 Ion Ratio Lower Upper
 41 100
 76 0.0 26.6 40.0#
 39 118.4 88.2 132.4



#22
 trans-1,2-Dichloroethene
 Concen: 0.12 ppbv
 RT: 5.76 min Scan# 438
 Delta R.T. -0.01 min
 Lab File: VL025769.D
 Acq: 28 Jul 2015 1:40

Tgt Ion: 96 Resp: 7998
 Ion Ratio Lower Upper
 96 100
 61 126.5 141.8 212.6#
 98 43.8 49.0 73.6#





#24

1,1-Dichloroethane

Concen: 0.13 ppbv

RT: 5.90 min Scan# 461

Delta R.T. -0.01 min

Lab File: VL025769.D

Acq: 28 Jul 2015 1:40

Instrument :

MSVOA_L

ClientSampleId :

ERD45-EFFLUENT-072215DL

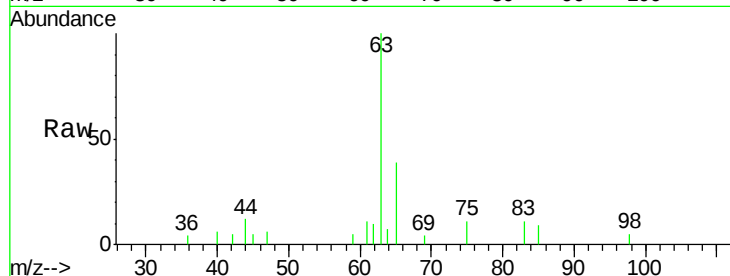
Tot Ion: 63 Resp: 20826

Ion Ratio Lower Upper

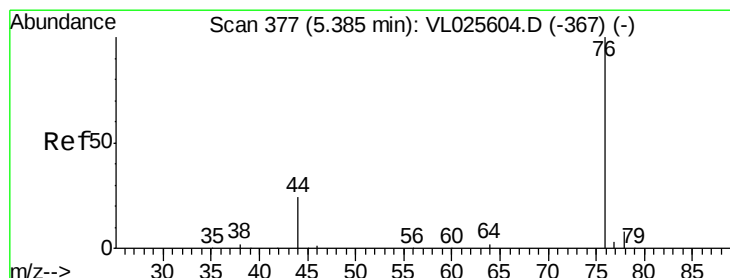
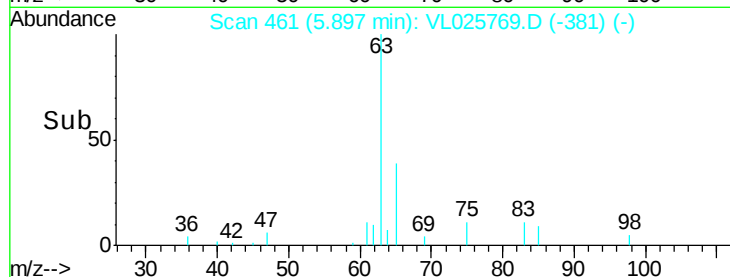
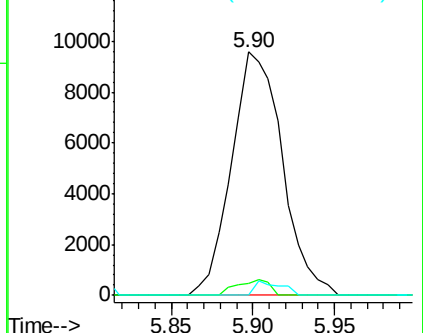
63 100

98 4.9

100 0.0



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



#27

Carbon Disulfide

Concen: 0.23 ppbv

RT: 5.39 min Scan# 377

Delta R.T. -0.00 min

Lab File: VL025769.D

Acq: 28 Jul 2015 1:40

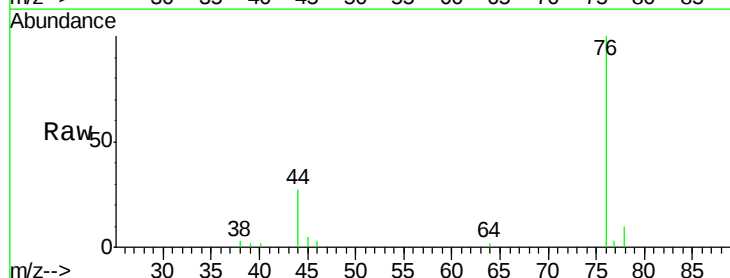
Tgt Ion: 76 Resp: 40770

Ion Ratio Lower Upper

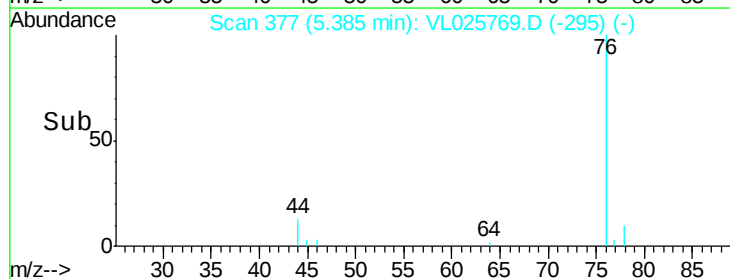
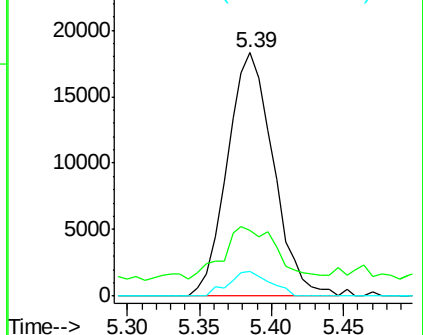
76 100

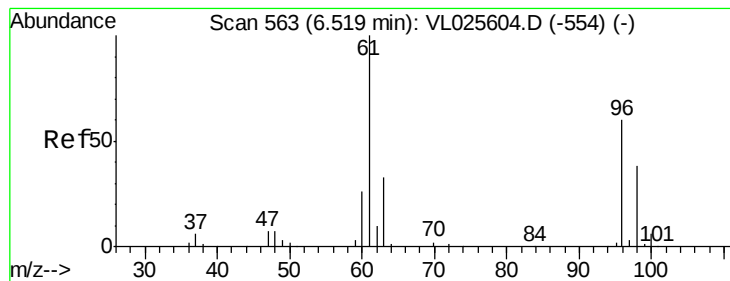
44 29.8

78 9.1



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: 3.13 ppbv

RT: 6.51 min Scan# 561

Delta R.T. -0.01 min

Lab File: VL025769.D

Acq: 28 Jul 2015 1:40

Instrument :

MSVOA_L

ClientSampleId :

ERD45-EFFLUENT-072215DL

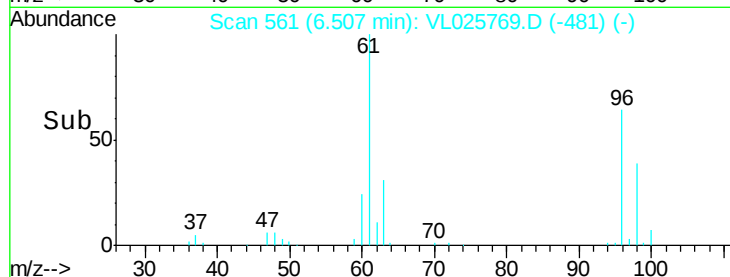
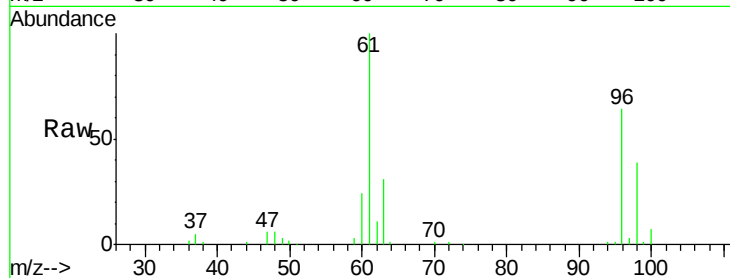
Tot Ion: 61 Resp: 344507

Ion Ratio Lower Upper

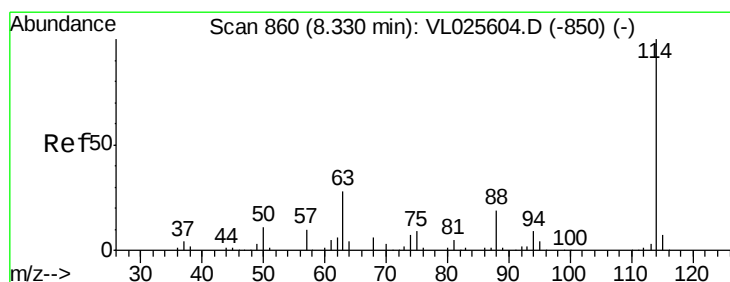
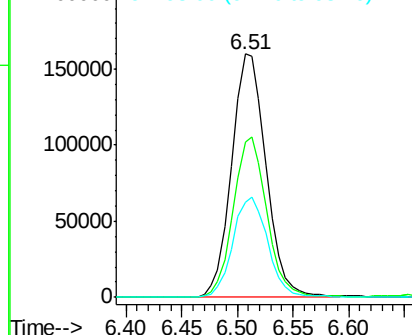
61 100

96 63.6 48.1 72.1

98 39.3 30.7 46.1



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 8.32 min Scan# 858

Delta R.T. -0.01 min

Lab File: VL025769.D

Acq: 28 Jul 2015 1:40

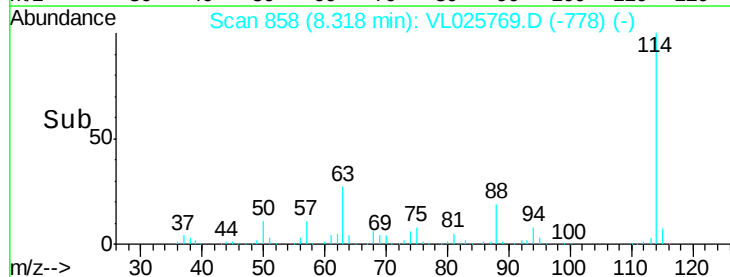
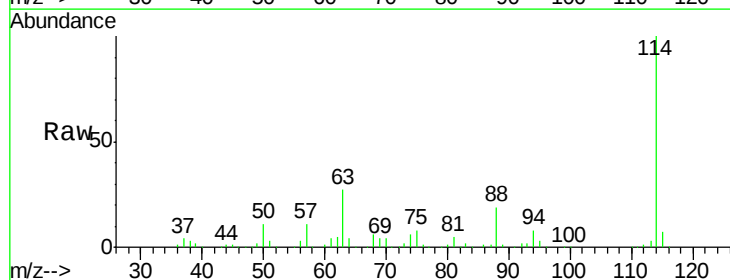
Tgt Ion: 114 Resp: 2265913

Ion Ratio Lower Upper

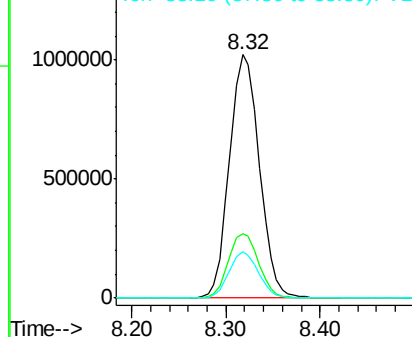
114 100

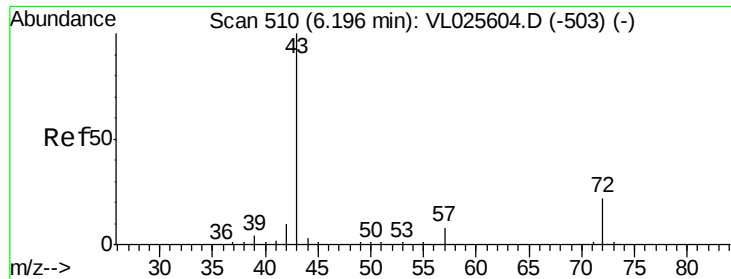
63 26.9 22.4 33.6

88 18.7 15.0 22.4



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.06 ppbv

RT: 6.21 min Scan# 512

Delta R.T. 0.01 min

Lab File: VL025769.D

Acq: 28 Jul 2015 1:40

Instrument :

MSVOA_L

ClientSampleId :

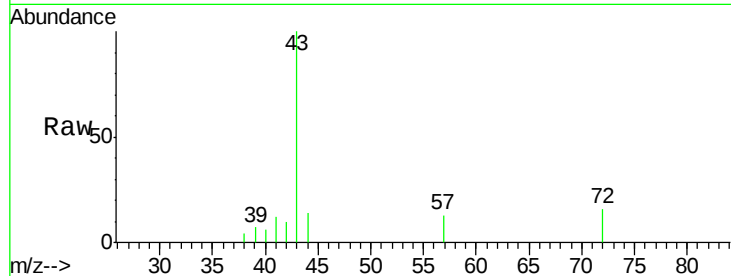
ERD45-EFFLUENT-072215DL

Tot Ion: 43 Resp: 7975

Ion Ratio Lower Upper

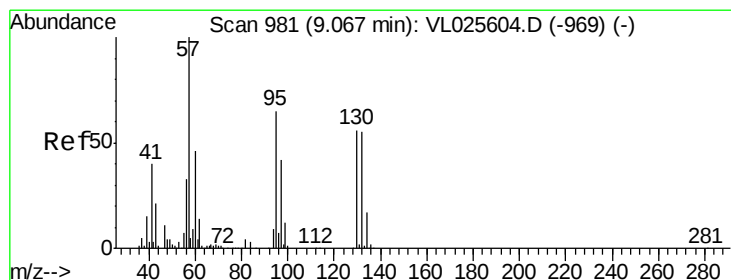
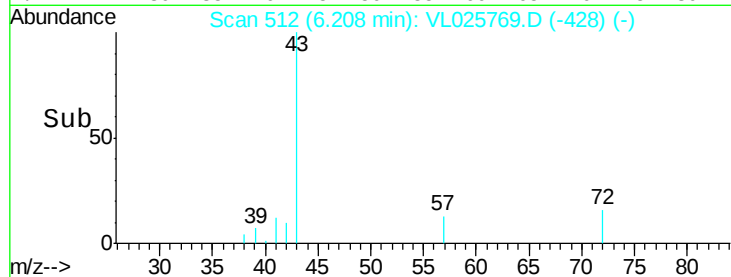
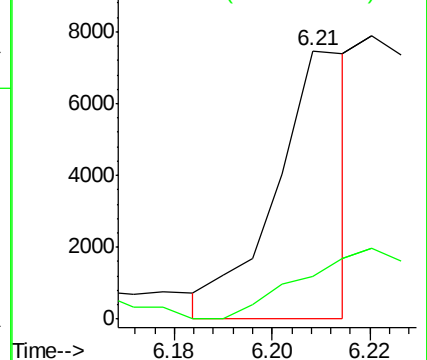
43 100

72 0.0 18.6 28.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#38

Trichloroethene

Concen: 0.07 ppbv

RT: 9.06 min Scan# 979

Delta R.T. -0.01 min

Lab File: VL025769.D

Acq: 28 Jul 2015 1:40

Tgt Ion: 130 Resp: 6796

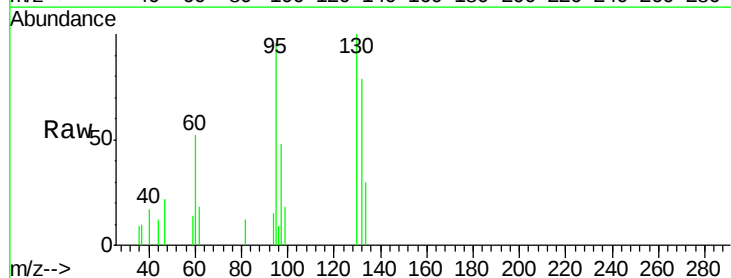
Ion Ratio Lower Upper

130 100

95 96.2 94.2 141.4

132 79.3 78.6 118.0

97 47.8 60.6 90.8#

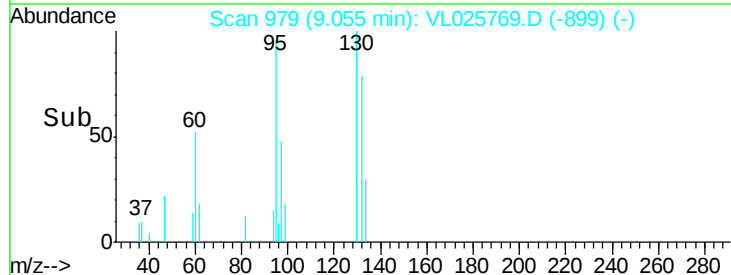
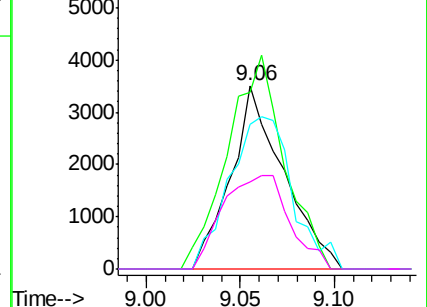


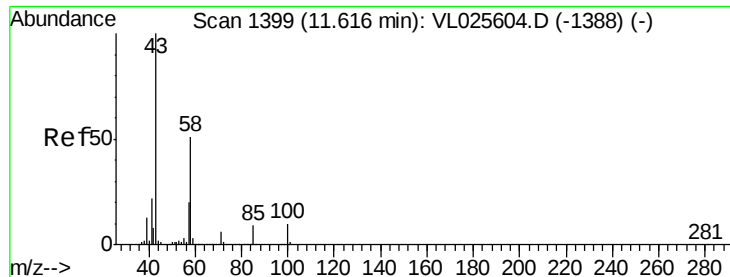
Abundance Ion 130.00 (129.70 to 130.70): V

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

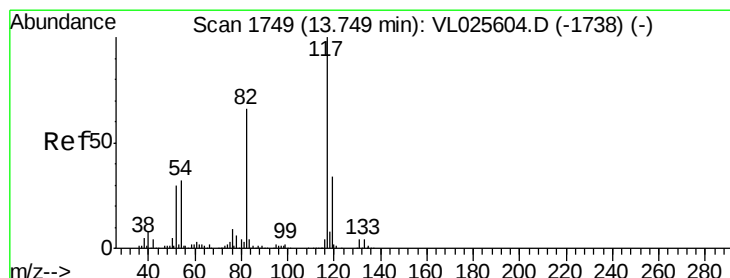
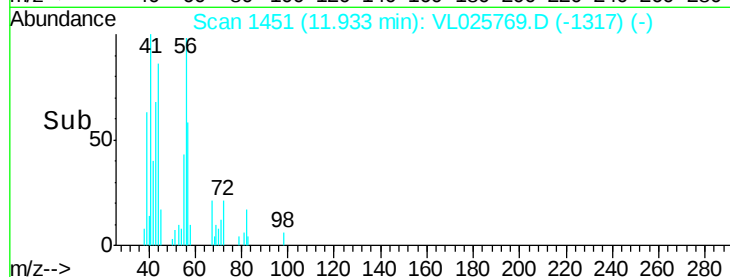
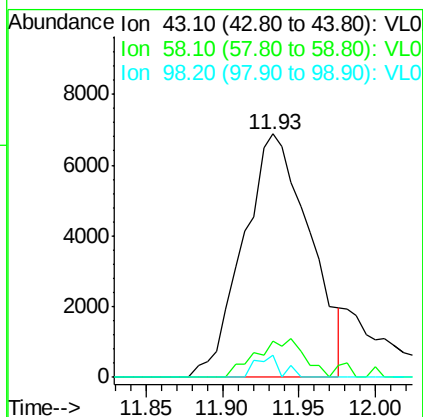
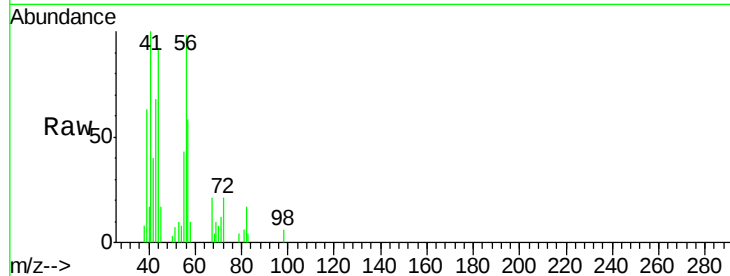




#51
2-Hexanone
Concen: 0.13 ppbv
RT: 11.93 min Scan# 1451
Delta R.T. 0.32 min
Lab File: VL025769.D
Acq: 28 Jul 2015 1:40

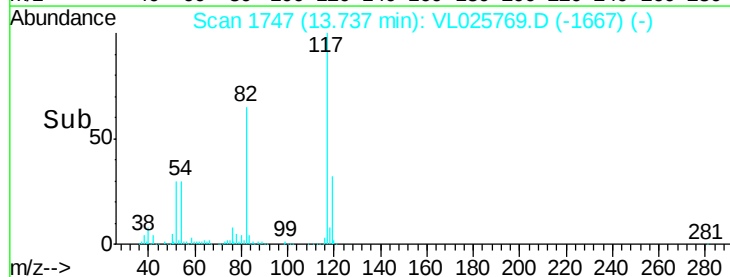
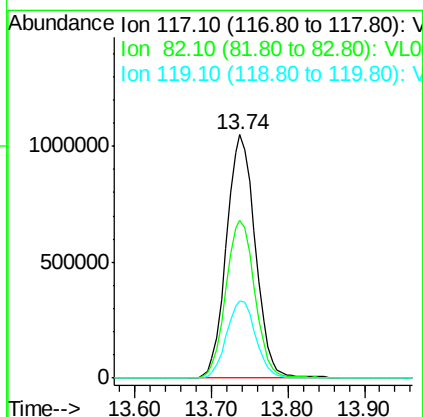
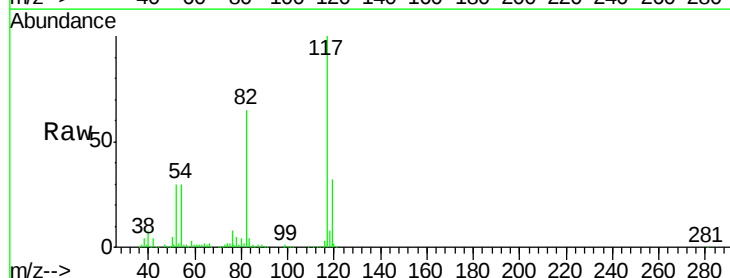
Instrument :
MSVOA_L
ClientSampleId :
ERD45-EFFLUENT-072215DL

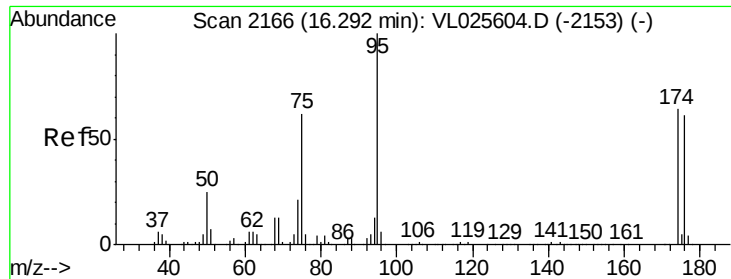
Tot Ion: 43 Resp: 20824
Ion Ratio Lower Upper
43 100
58 0.0 39.0 58.6#
98 3.4 0.2 0.4#



#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.74 min Scan# 1747
Delta R.T. -0.01 min
Lab File: VL025769.D
Acq: 28 Jul 2015 1:40

Tgt Ion: 117 Resp: 2745859
Ion Ratio Lower Upper
117 100
82 65.5 50.5 75.7
119 32.3 45.1 67.7#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.08 ppbv

RT: 16.28 min Scan# 2164

Delta R.T. -0.01 min

Lab File: VL025769.D

Acq: 28 Jul 2015 1:40

Instrument :

MSVOA_L

ClientSampleId :

ERD45-EFFLUENT-072215DL

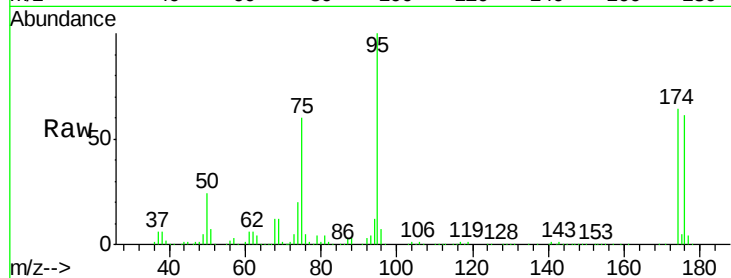
Tot Ion: 95 Resp: 2335920

Ion Ratio Lower Upper

95 100

174 65.1 52.0 78.0

175 5.1 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

