

Data File : VL031864.D

Acq On : 12 Apr 2018 12:59

Operator : SY/AP

Sample : J2191-07DL 4X

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_L

ClientSampleId :

GAC-EFF-040218DL

Quant Time: Apr 14 01:34:53 2018

Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL041218AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr 13 16:50:02 2018

QLast Update : Fri Apr 13 16:50:02 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1236870	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2525624	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2471394	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.73	95	1988055	10.00	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.16	85	143513	0.56	ppbv	96
3) Chlorodifluoromethane	3.08	51	29858	0.21	ppbv #	69
7) Chloroethane	3.70	64	1063	0.03	ppbv #	55
8) Dichlorotetrafluoroethane	3.24	85	9657	0.05	ppbv #	21
9) Propene	3.33	41	51588	1.04	ppbv	86
11) Trichlorofluoromethane	4.11	101	123588	0.49	ppbv	87
13) Ethanol	3.75	45	285508	16.91	ppbv	96
15) Acetone	4.02	43	37053	0.19	ppbv #	74
19) Isopropyl Alcohol	4.14	45	5464	0.05	ppbv #	1
20) Methylene Chloride	4.52	84	99240	1.43	ppbv	87
24) 1,1-Dichloroethane	5.21	63	96714	0.50	ppbv	99
25) Ethyl Acetate	5.90	43	16985	0.06	ppbv #	94
26) Hexane	5.91	57	9645	0.07	ppbv #	52
29) Chloroform	5.97	83	21407	0.09	ppbv	95
31) cis-1,2-Dichloroethene	5.77	61	24138	0.19	ppbv	98
32) 1,1,1-Trichloroethane	6.76	97	199873	0.87	ppbv	99
38) Trichloroethene	8.10	130	327992	3.56	ppbv	97
39) 1,2-Dichloropropane	7.43	63	691769	8.19	ppbv #	22

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

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GAC-EFF-040218DL

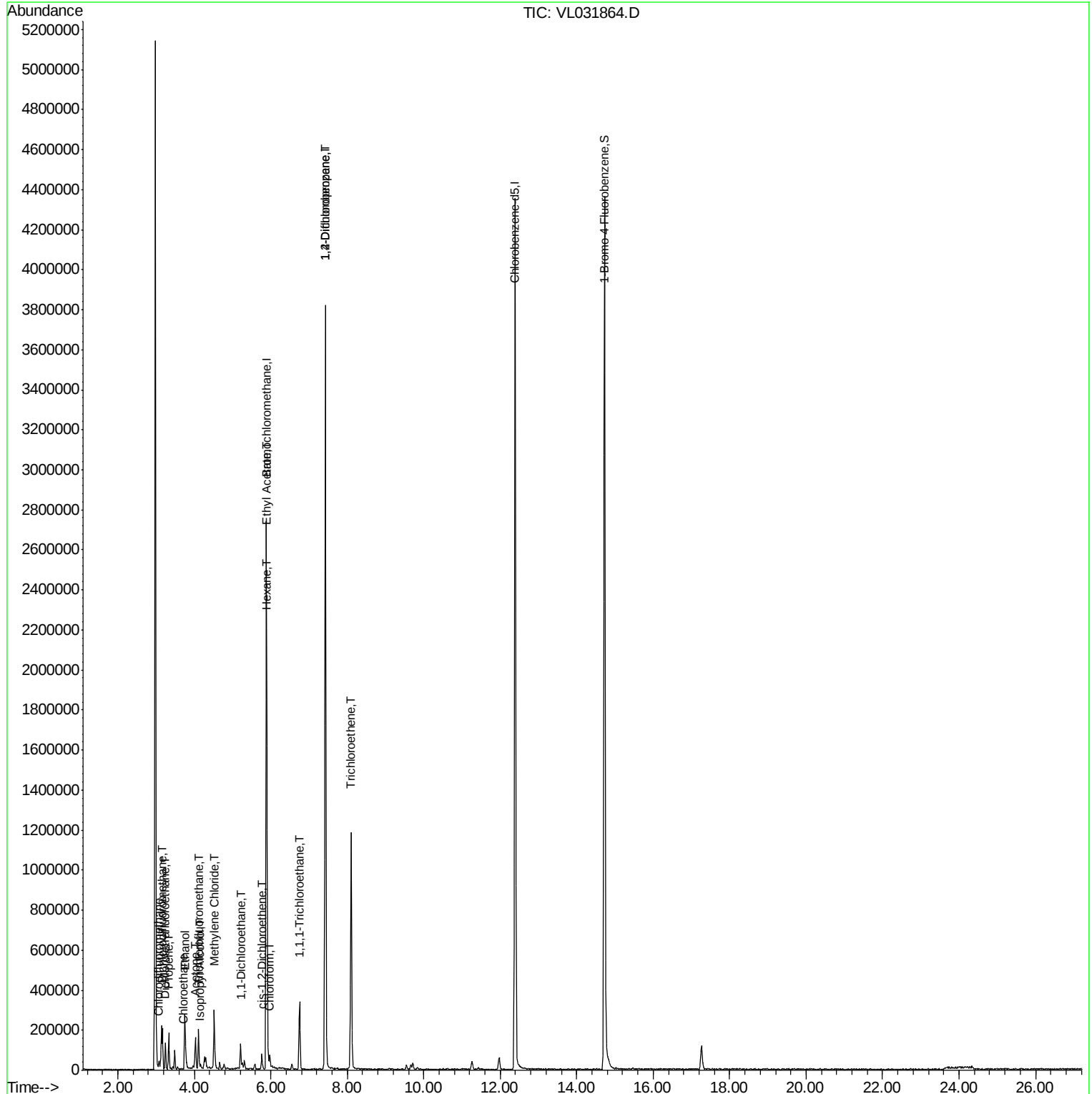
Quant Time: Apr 14 01:34:53 2018

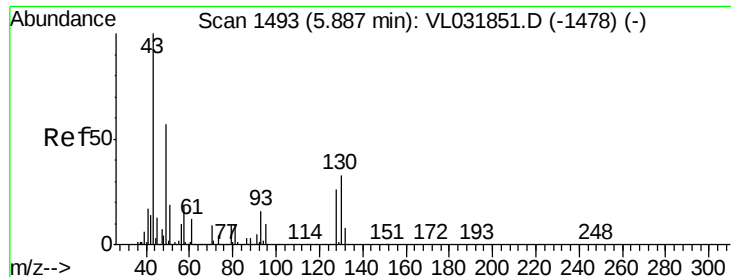
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL041218AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr 13 16:50:02 2018

QLast Update : Fri Apr 13 16:50:02 2018

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.89 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VL031864.D

Acq: 12 Apr 2018 12:59

Instrument :

MSVOA_L

ClientSampleId :

GAC-EFF-040218DL

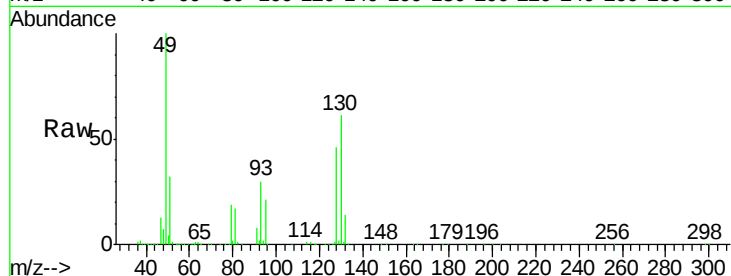
Tgt Ion: 49 Resp: 1236870

Ion Ratio Lower Upper

49 100

128 48.2 23.9 71.7

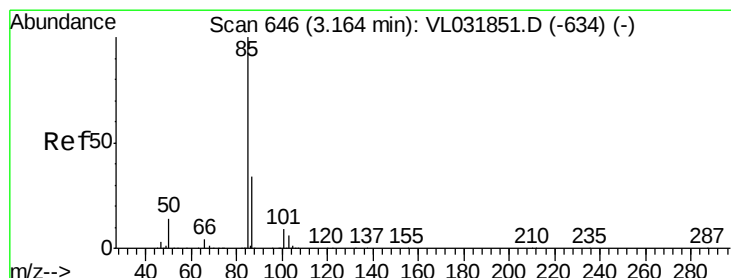
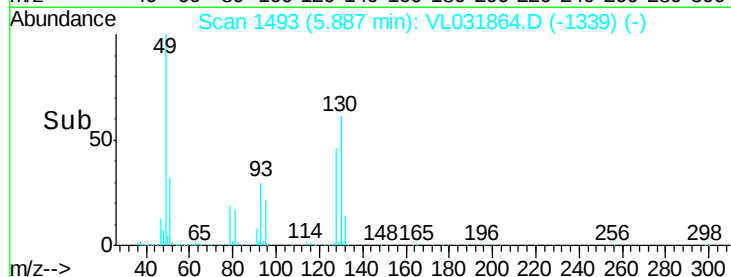
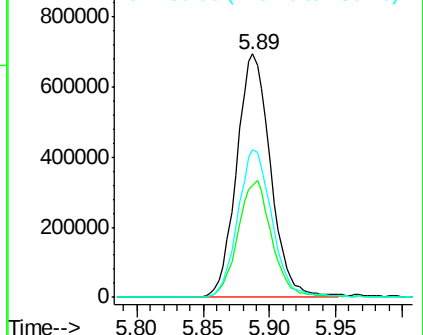
130 61.6 30.9 92.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.56 ppbv

RT: 3.16 min Scan# 646

Delta R.T. -0.00 min

Lab File: VL031864.D

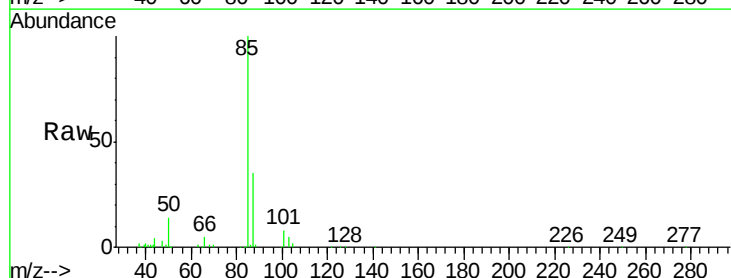
Acq: 12 Apr 2018 12:59

Tgt Ion: 85 Resp: 143513

Ion Ratio Lower Upper

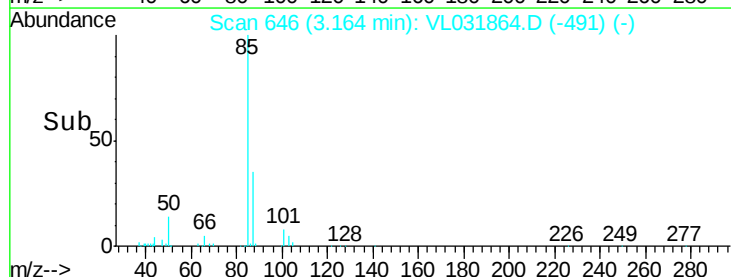
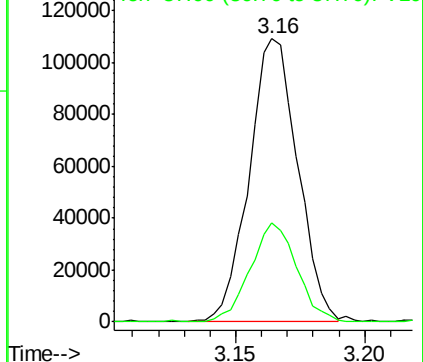
85 100

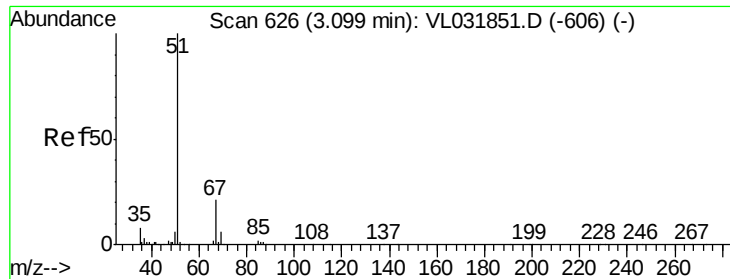
87 34.7 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.21 ppbv

RT: 3.08 min Scan# 619

Delta R.T. -0.02 min

Lab File: VL031864.D

Acq: 12 Apr 2018 12:59

Instrument :

MSVOA_L

ClientSampleId :

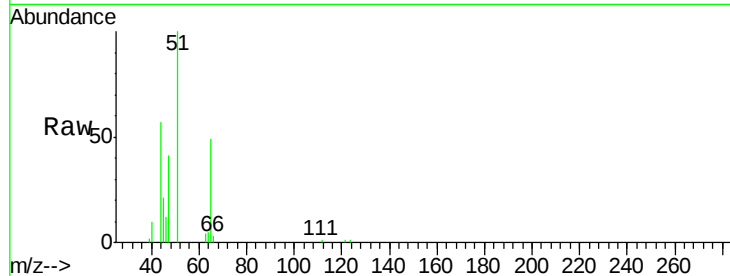
GAC-EFF-040218DL

Tgt Ion: 51 Resp: 29858

Ion Ratio Lower Upper

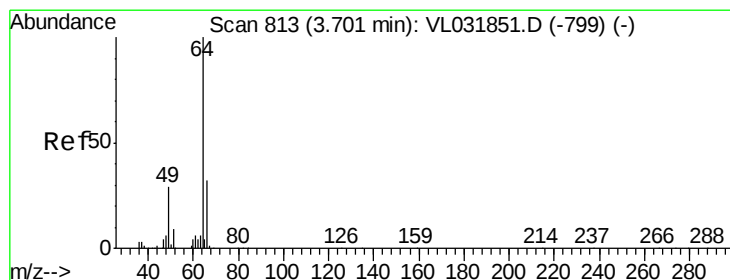
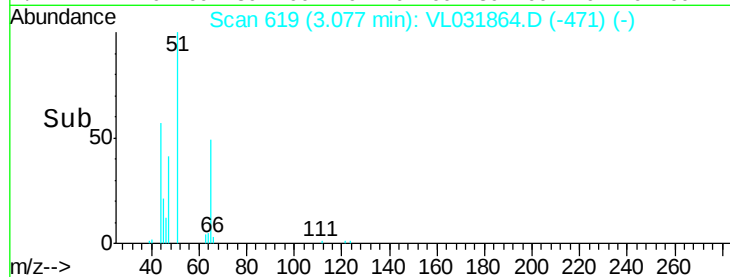
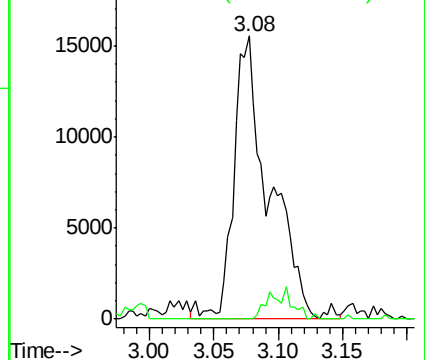
51 100

67 7.1 17.5 26.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#7

Chloroethane

Concen: 0.03 ppbv

RT: 3.70 min Scan# 812

Delta R.T. -0.00 min

Lab File: VL031864.D

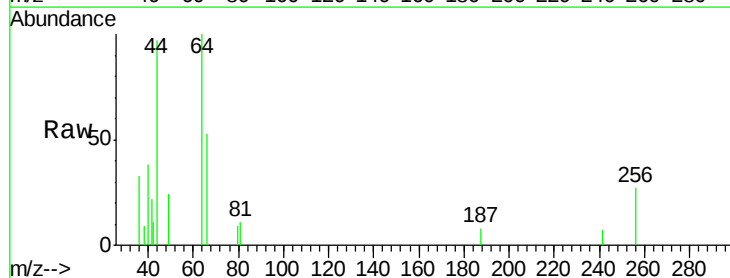
Acq: 12 Apr 2018 12:59

Tgt Ion: 64 Resp: 1063

Ion Ratio Lower Upper

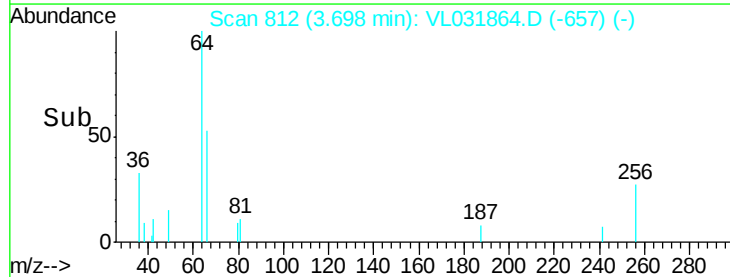
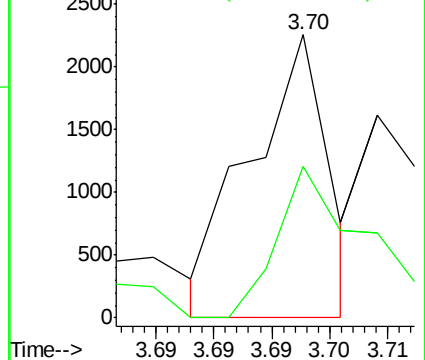
64 100

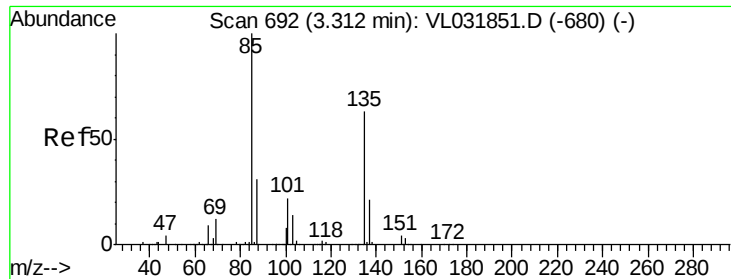
66 53.4 23.4 35.0#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.05 ppbv

RT: 3.24 min Scan# 671

Delta R.T. -0.07 min

Lab File: VL031864.D

Acq: 12 Apr 2018 12:59

Instrument :

MSVOA_L

ClientSampleId :

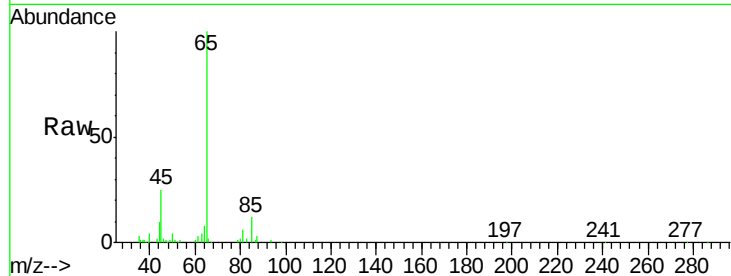
GAC-EFF-040218DL

Tgt Ion: 85 Resp: 9657

Ion Ratio Lower Upper

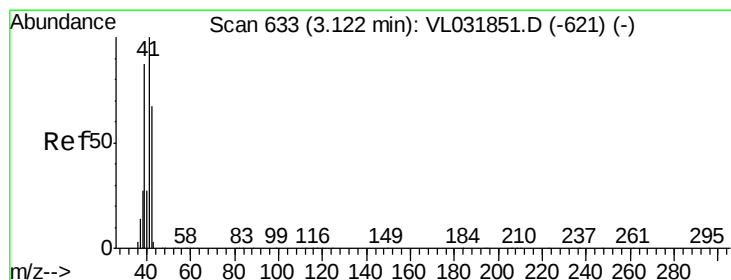
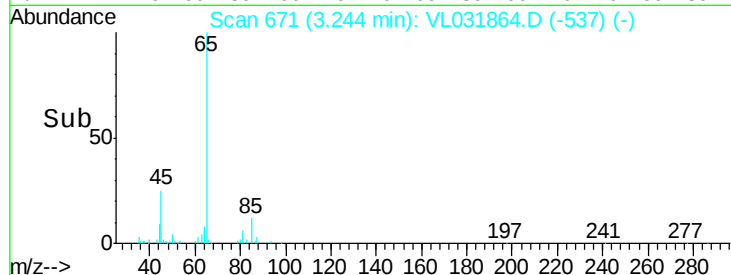
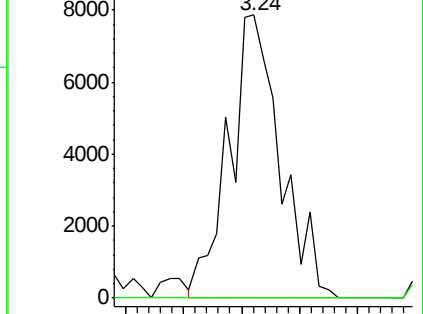
85 100

135 3.0 52.7 79.1#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#9

Propene

Concen: 1.04 ppbv

RT: 3.33 min Scan# 698

Delta R.T. 0.21 min

Lab File: VL031864.D

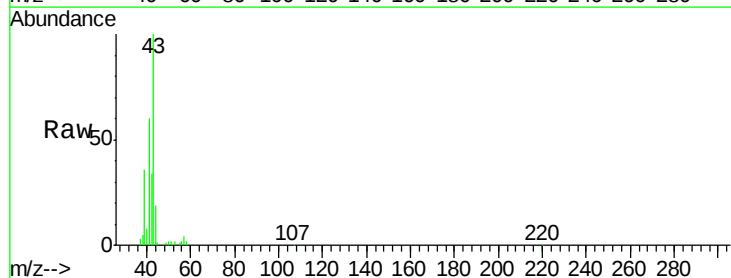
Acq: 12 Apr 2018 12:59

Tgt Ion: 41 Resp: 51588

Ion Ratio Lower Upper

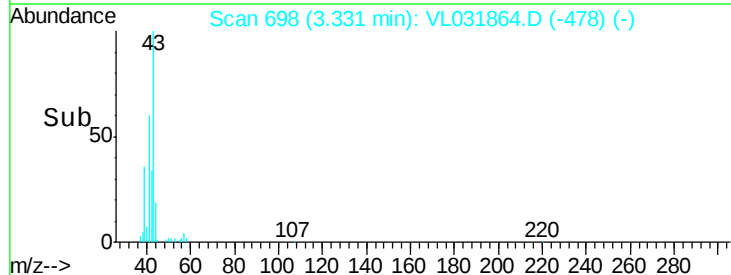
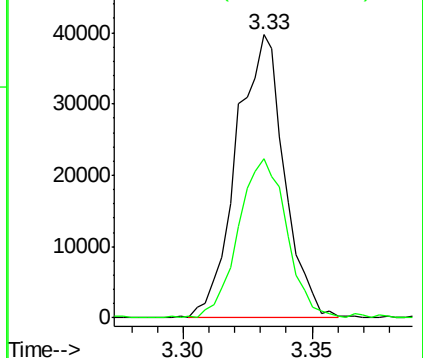
41 100

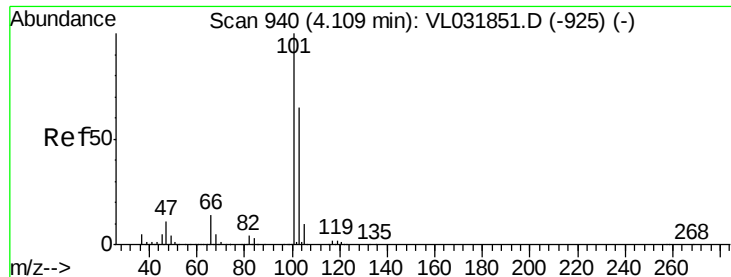
42 57.0 55.0 82.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

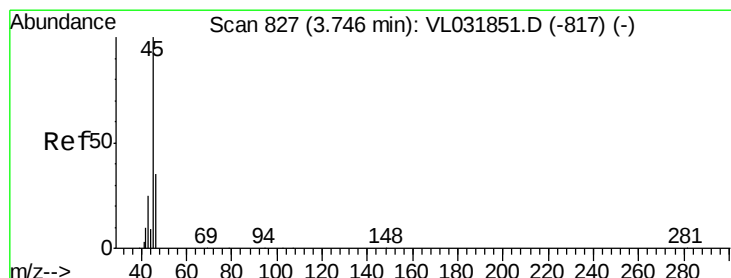
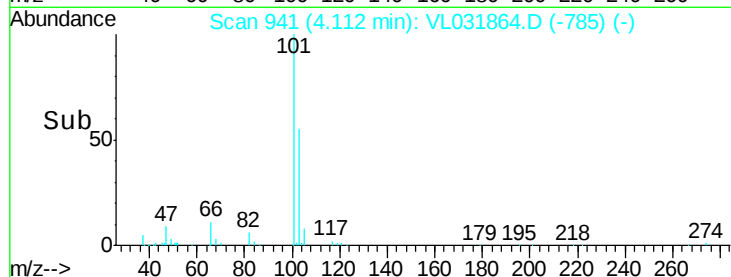
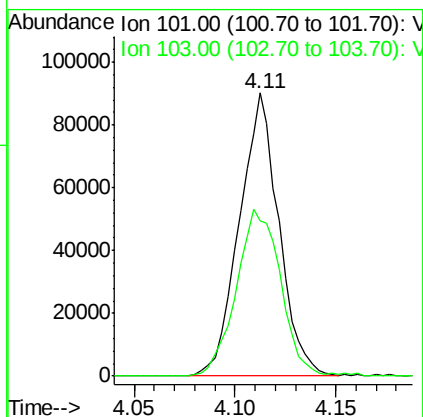
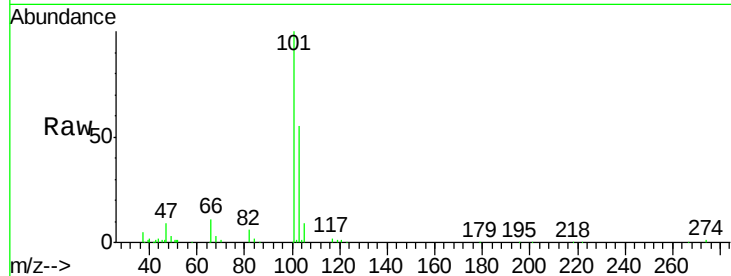




#11
 Trichlorofluoromethane
 Concen: 0.49 ppbv
 RT: 4.11 min Scan# 941
 Delta R.T. 0.00 min
 Lab File: VL031864.D
 Acq: 12 Apr 2018 12:59

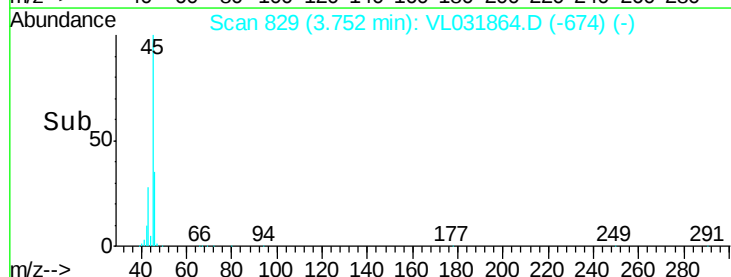
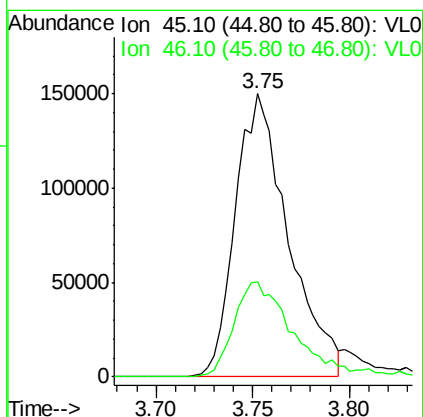
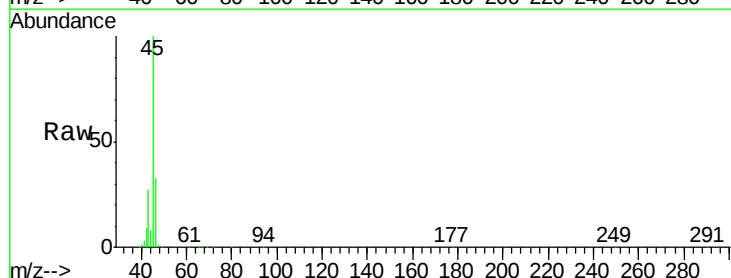
Instrument :
 MSVOA_L
 ClientSampleId :
 GAC-EFF-040218DL

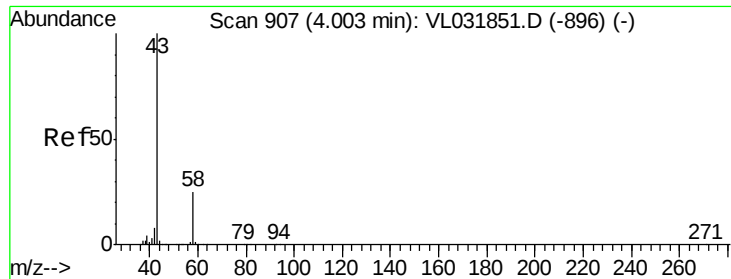
Tgt Ion: 101 Resp: 123588
 Ion Ratio Lower Upper
 101 100
 103 54.7 51.8 77.8



#13
 Ethanol
 Concen: 16.91 ppbv
 RT: 3.75 min Scan# 829
 Delta R.T. -0.00 min
 Lab File: VL031864.D
 Acq: 12 Apr 2018 12:59

Tgt Ion: 45 Resp: 285508
 Ion Ratio Lower Upper
 45 100
 46 39.2 14.6 58.6





#15

Acetone

Concen: 0.19 ppbv

RT: 4.02 min Scan# 911

Delta R.T. 0.01 min

Lab File: VL031864.D

Acq: 12 Apr 2018 12:59

Instrument :

MSVOA_L

ClientSampleId :

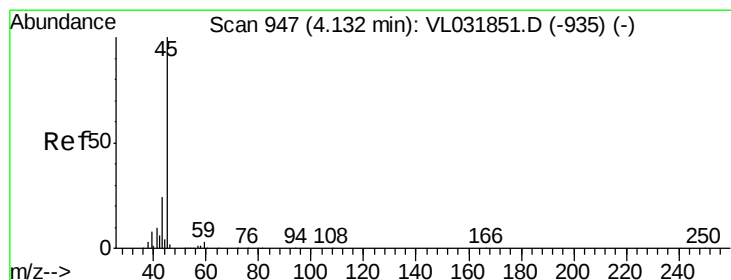
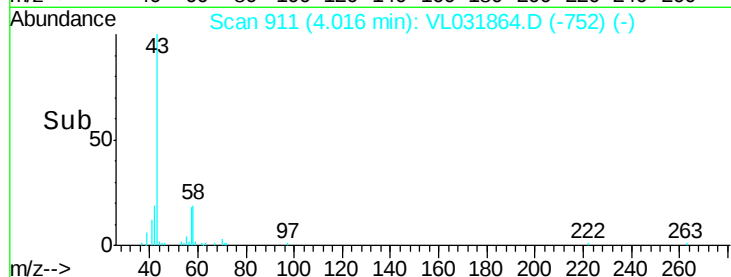
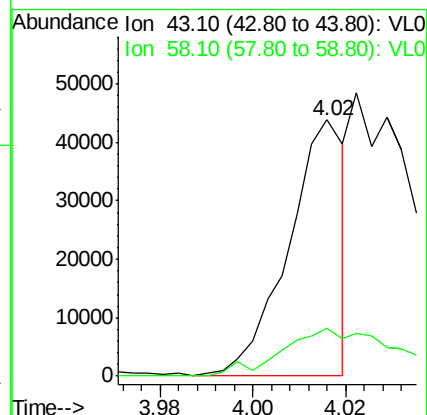
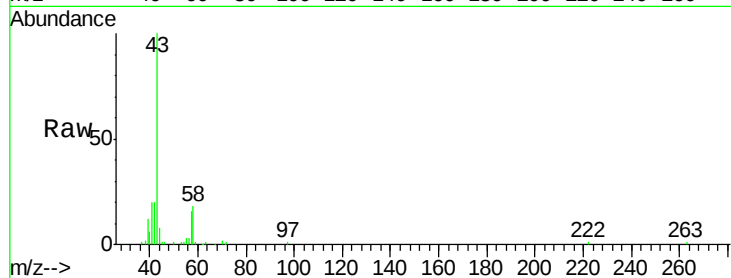
GAC-EFF-040218DL

Tgt Ion: 43 Resp: 37053

Ion Ratio Lower Upper

43 100

58 39.5 20.9 31.3#



#19

Isopropyl Alcohol

Concen: 0.05 ppbv

RT: 4.14 min Scan# 951

Delta R.T. 0.02 min

Lab File: VL031864.D

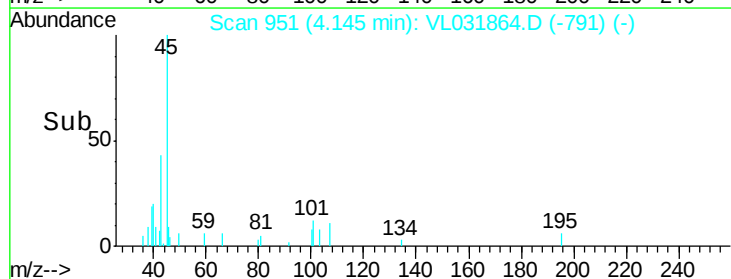
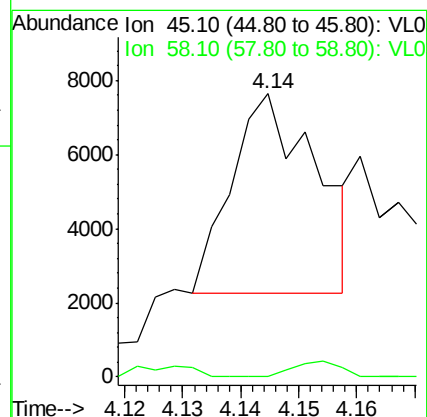
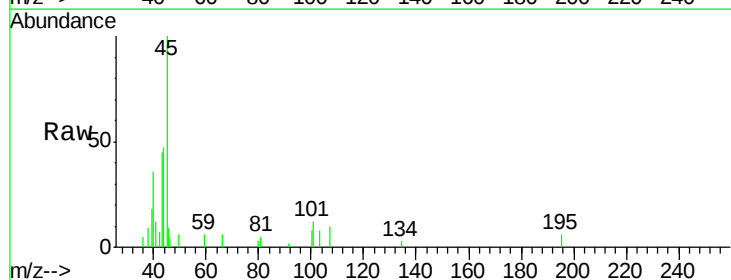
Acq: 12 Apr 2018 12:59

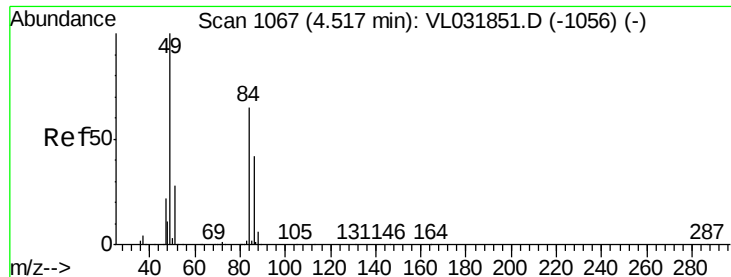
Tgt Ion: 45 Resp: 5464

Ion Ratio Lower Upper

45 100

58 267.8 1.7 2.5#

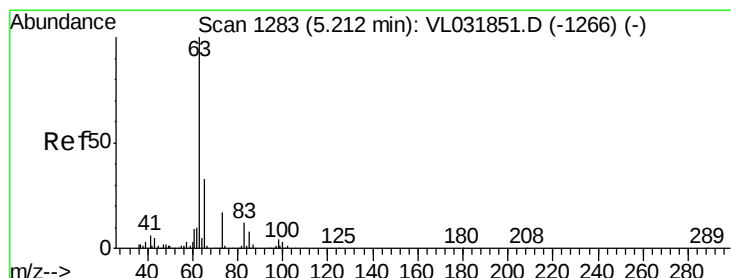
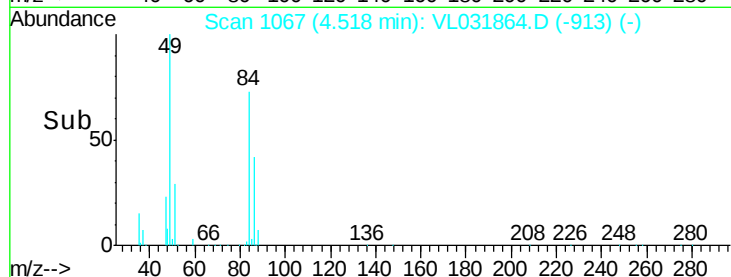
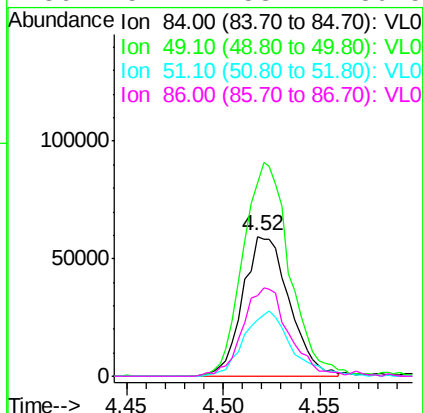
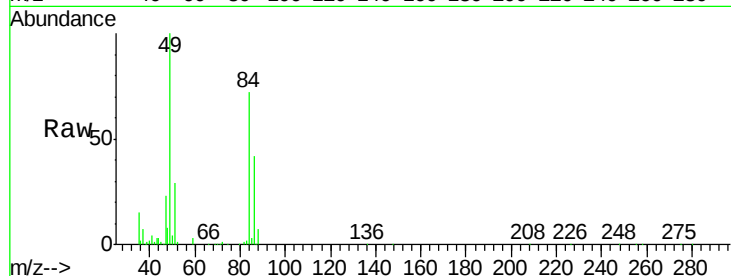




#20
Methylene Chloride
Concen: 1.43 ppbv
RT: 4.52 min Scan# 1067
Delta R.T. -0.00 min
Lab File: VL031864.D
Acq: 12 Apr 2018 12:59

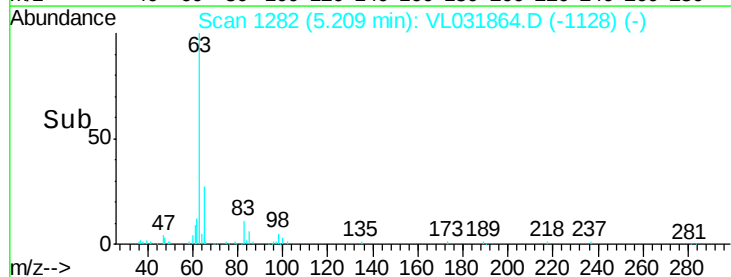
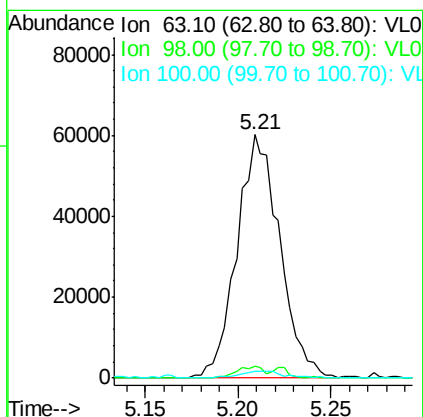
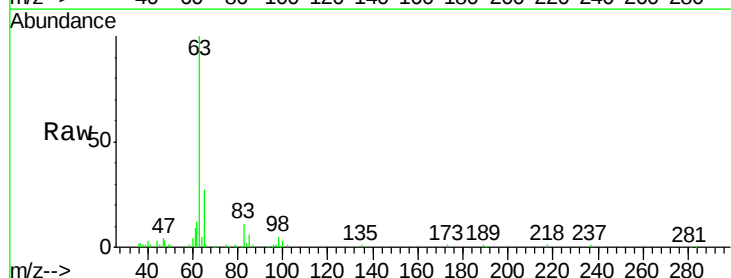
Instrument :
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GAC-EFF-040218DL

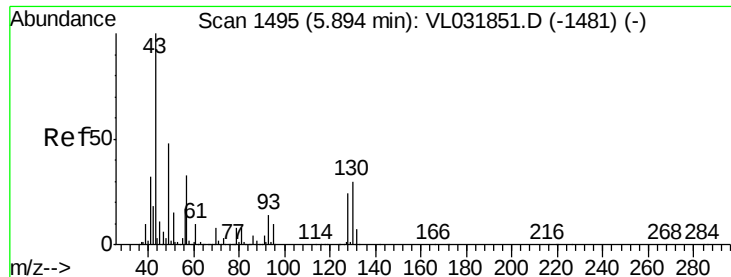
Tgt Ion:	84	Resp:	99240
Ion	Ratio	Lower	Upper
84	100		
49	138.2	125.6	188.4
51	40.3	36.4	54.6
86	57.4	53.7	80.5



#24
1,1-Dichloroethane
Concen: 0.50 ppbv
RT: 5.21 min Scan# 1282
Delta R.T. -0.00 min
Lab File: VL031864.D
Acq: 12 Apr 2018 12:59

Tgt Ion:	63	Resp:	96714
Ion	Ratio	Lower	Upper
63	100		
98	5.4	2.4	7.2
100	2.9	1.5	4.4

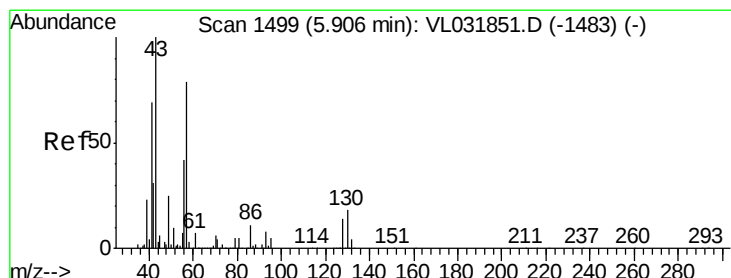
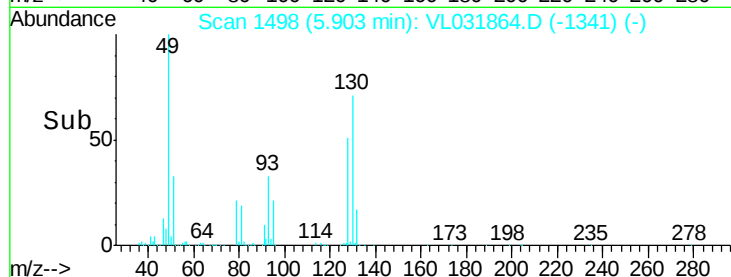
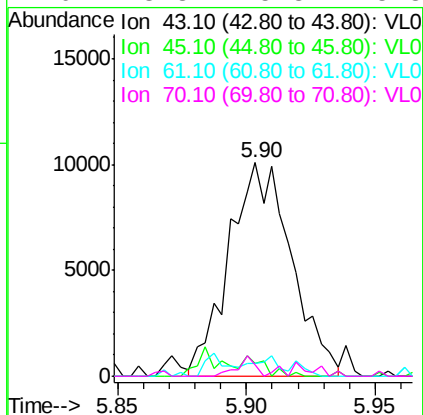
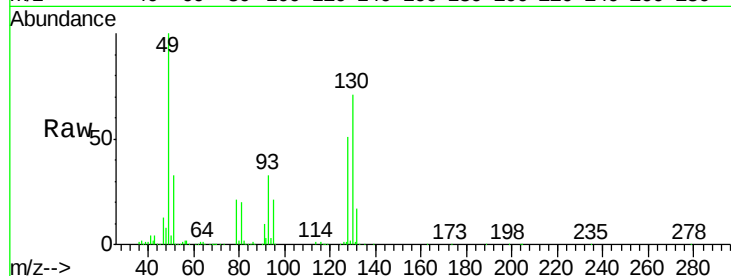




#25
Ethyl Acetate
Concen: 0.06 ppbv
RT: 5.90 min Scan# 1498
Delta R.T. 0.01 min
Lab File: VL031864.D
Acq: 12 Apr 2018 12:59

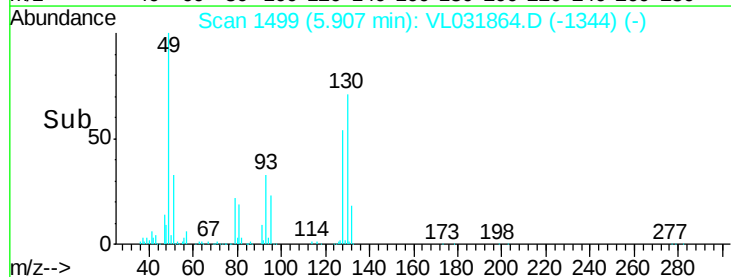
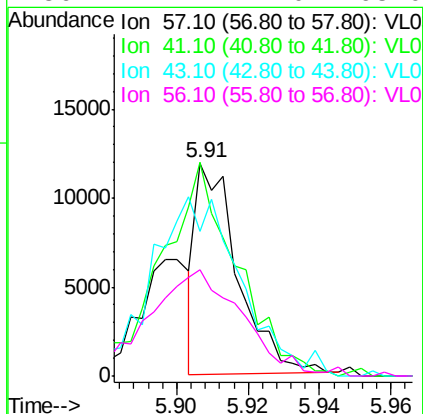
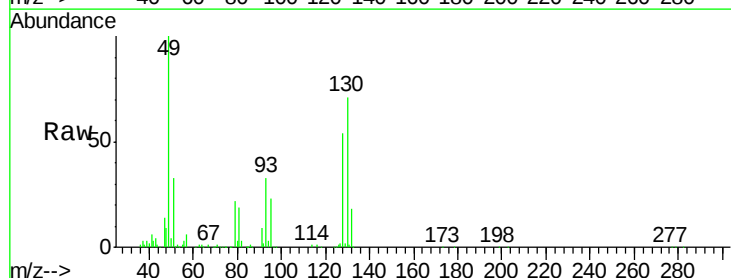
Instrument :
MSVOA_L
ClientSampleId :
GAC-EFF-040218DL

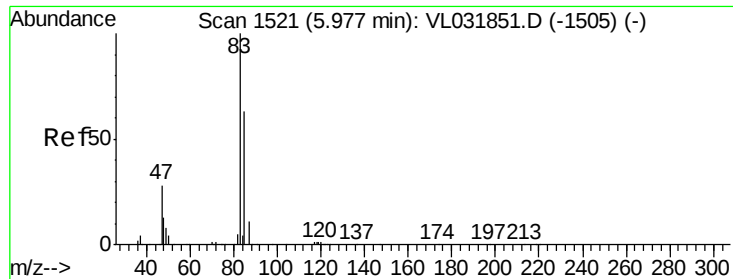
Tgt Ion:	43	Resp:	16985
Ion	Ratio	Lower	Upper
43	100		
45	8.1	7.8	11.8
61	9.7	7.2	10.8
70	3.3	5.8	8.8#



#26
Hexane
Concen: 0.07 ppbv
RT: 5.91 min Scan# 1499
Delta R.T. -0.00 min
Lab File: VL031864.D
Acq: 12 Apr 2018 12:59

Tgt Ion:	57	Resp:	9645
Ion	Ratio	Lower	Upper
57	100		
41	186.9	72.0	108.0#
43	188.0	169.8	254.8
56	112.7	42.0	63.0#





#29

Chloroform

Concen: 0.09 ppbv

RT: 5.97 min Scan# 1519

Delta R.T. -0.01 min

Lab File: VL031864.D

Acq: 12 Apr 2018 12:59

Instrument :

MSVOA_L

ClientSampleId :

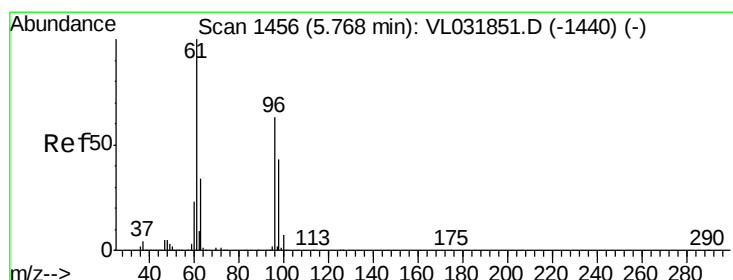
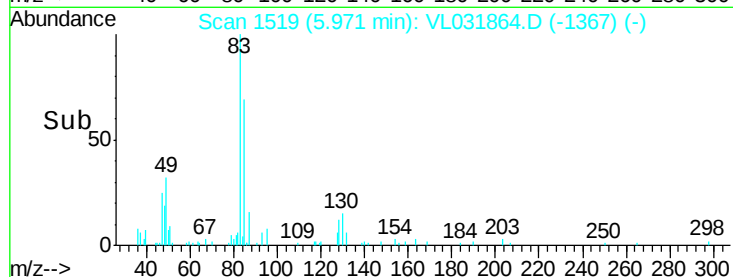
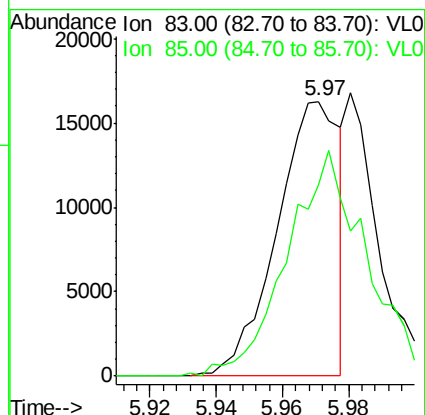
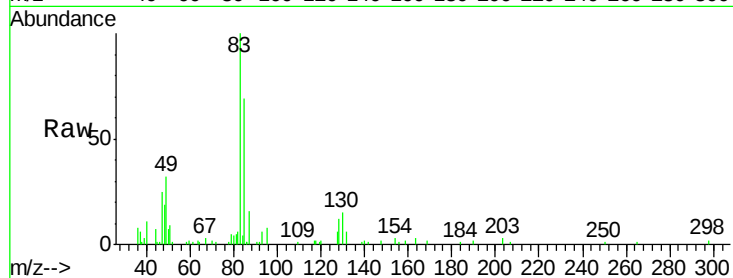
GAC-EFF-040218DL

Tgt Ion: 83 Resp: 21407

Ion Ratio Lower Upper

83 100

85 68.2 51.4 77.0



#31

cis-1,2-Dichloroethene

Concen: 0.19 ppbv

RT: 5.77 min Scan# 1455

Delta R.T. -0.00 min

Lab File: VL031864.D

Acq: 12 Apr 2018 12:59

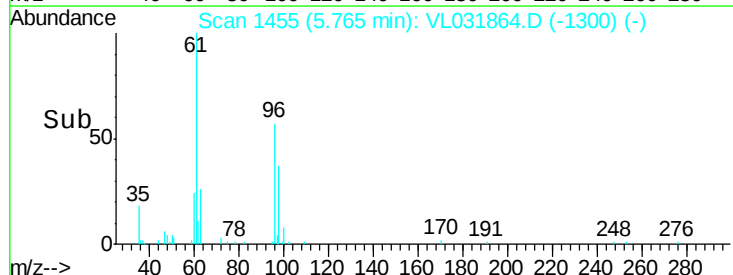
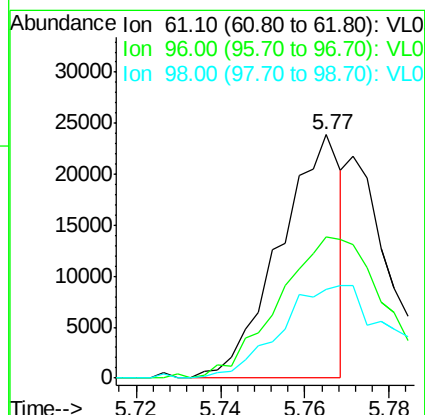
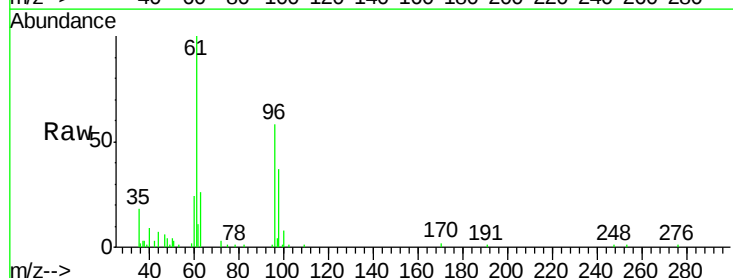
Tgt Ion: 61 Resp: 24138

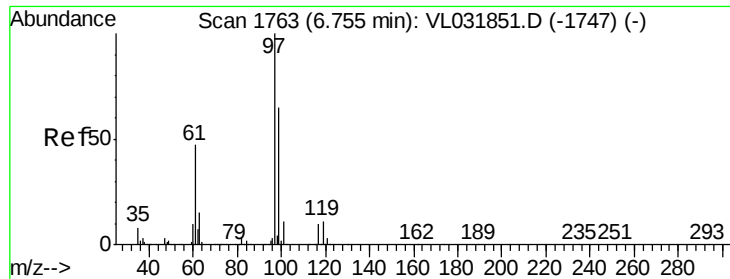
Ion Ratio Lower Upper

61 100

96 58.1 47.6 71.4

98 36.6 30.3 45.5





#32

1,1,1-Trichloroethane

Concen: 0.87 ppbv

RT: 6.76 min Scan# 1763

Delta R.T. -0.00 min

Lab File: VL031864.D

Acq: 12 Apr 2018 12:59

Instrument :

MSVOA_L

ClientSampleId :

GAC-EFF-040218DL

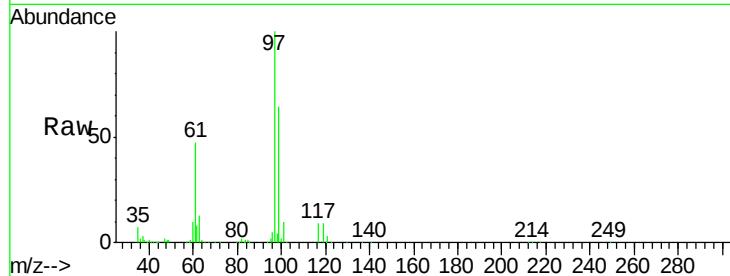
Tgt Ion: 97 Resp: 199873

Ion Ratio Lower Upper

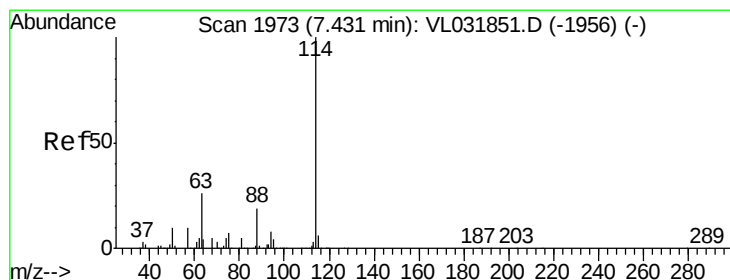
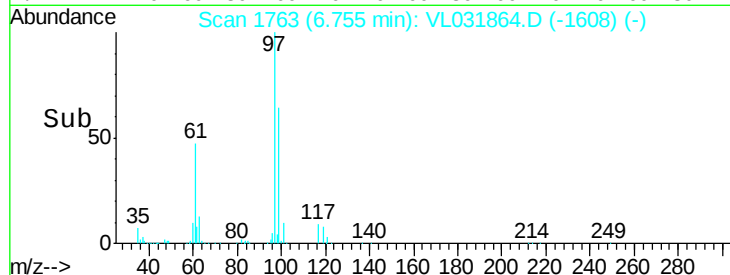
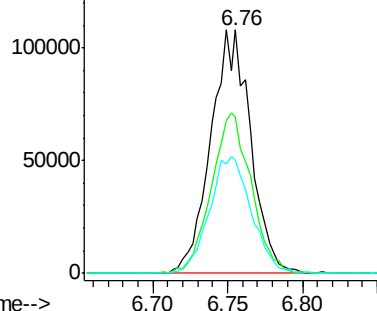
97 100

99 65.8 51.5 77.3

61 50.7 40.0 60.0



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.43 min Scan# 1972

Delta R.T. -0.01 min

Lab File: VL031864.D

Acq: 12 Apr 2018 12:59

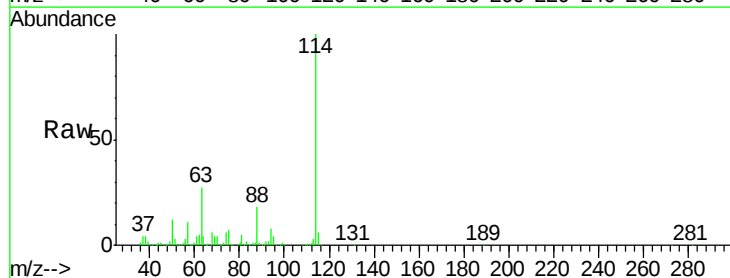
Tgt Ion: 114 Resp: 2525624

Ion Ratio Lower Upper

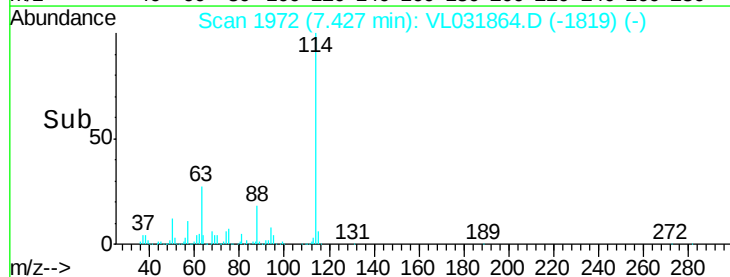
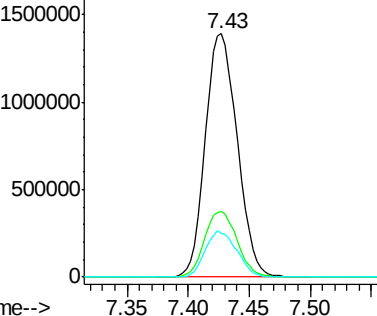
114 100

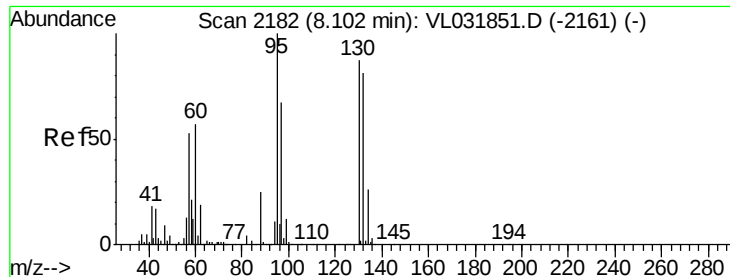
63 27.5 21.8 32.6

88 18.7 14.6 22.0



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





#38

Trichloroethene

Concen: 3.56 ppbv

RT: 8.10 min Scan# 2182

Delta R.T. -0.00 min

Lab File: VL031864.D

Acq: 12 Apr 2018 12:59

Instrument :

MSVOA_L

ClientSampleId :

GAC-EFF-040218DL

Tgt Ion:130 Resp: 327992

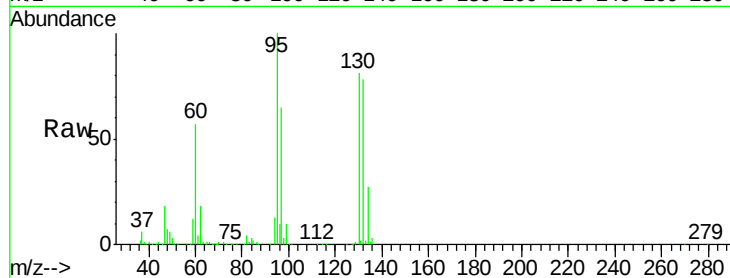
Ion Ratio Lower Upper

130 100

95 122.7 96.6 144.8

132 96.4 79.1 118.7

97 80.9 61.5 92.3

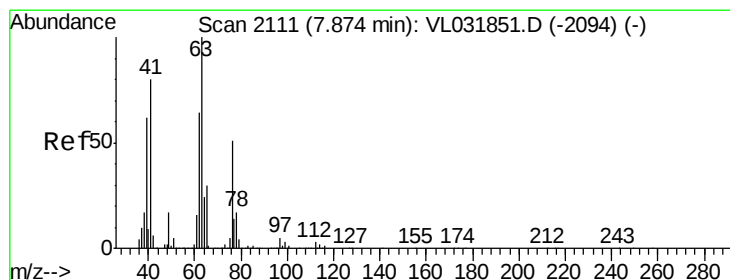
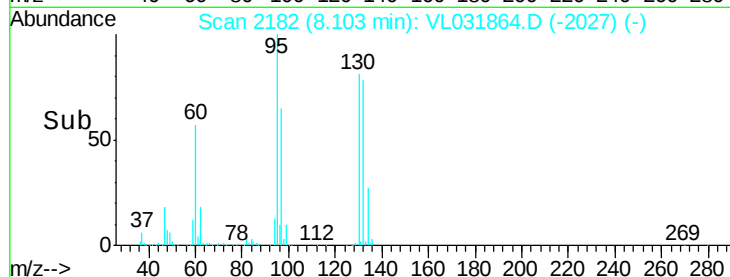
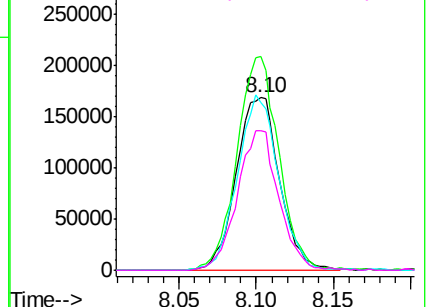


Abundance Ion 130.00 (129.70 to 130.70): V

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: 8.19 ppbv

RT: 7.43 min Scan# 1972

Delta R.T. -0.45 min

Lab File: VL031864.D

Acq: 12 Apr 2018 12:59

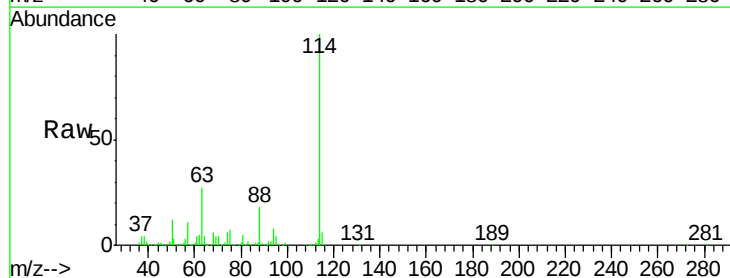
Tgt Ion: 63 Resp: 691769

Ion Ratio Lower Upper

63 100

41 0.1 65.8 98.6#

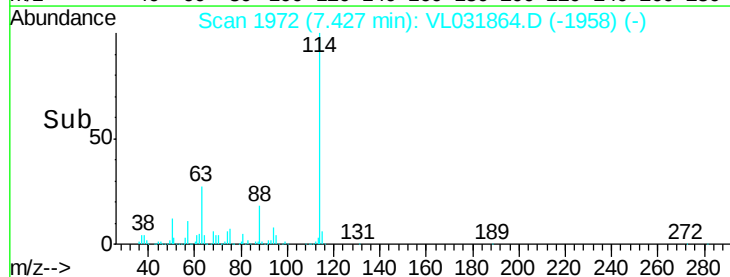
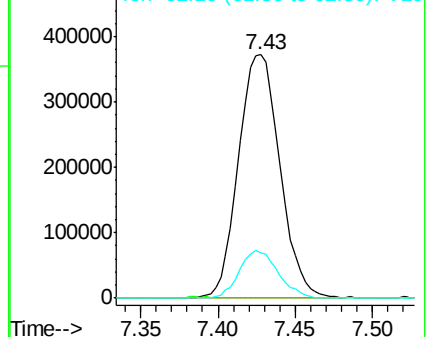
62 18.5 55.0 82.6#

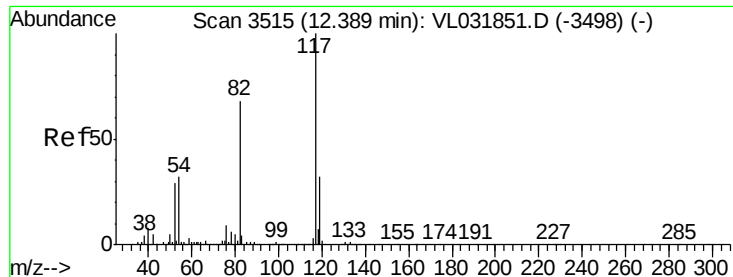


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

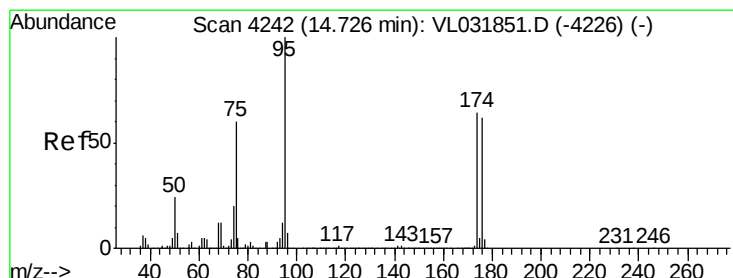
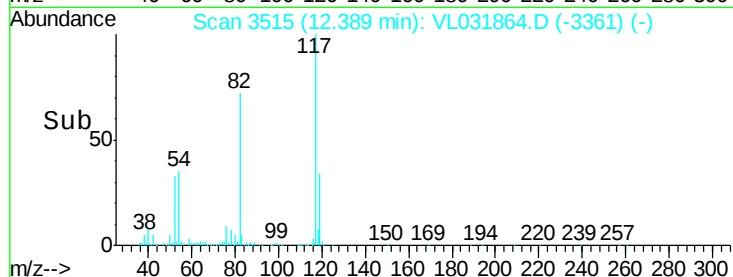
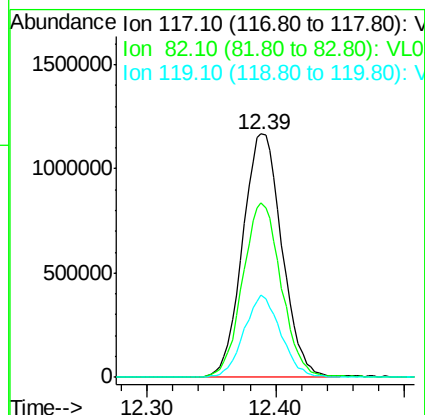
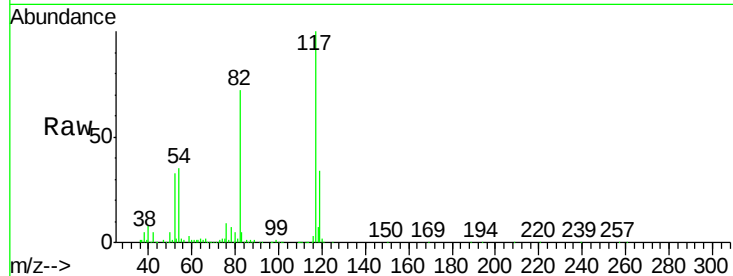




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.39 min Scan# 3515
Delta R.T. -0.00 min
Lab File: VL031864.D
Acq: 12 Apr 2018 12:59

Instrument :
MSVOA_L
ClientSampleId :
GAC-EFF-040218DL

Tgt Ion: 117 Resp: 2471394
Ion Ratio Lower Upper
117 100
82 71.0 54.6 81.8
119 32.0 26.0 39.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.00 ppbv
RT: 14.73 min Scan# 4242
Delta R.T. -0.00 min
Lab File: VL031864.D
Acq: 12 Apr 2018 12:59

Tgt Ion: 95 Resp: 1988055
Ion Ratio Lower Upper
95 100
174 65.5 52.3 78.5
175 4.7 3.9 5.9

