

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041218\
 Data File : VL031863.D
 Acq On : 12 Apr 2018 12:20
 Operator : SY/AP
 Sample : J2191-07DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 GAC-EFF-040218DUP

Manual Integrations
 APPROVED

MMDadoda
 4/15/2018 3:06:44 PM

Quant Time: Apr 14 02:00:37 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	1135685	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2377672	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2141245	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.72	95	1719347	9.99	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.17	85	284793	1.216	ppbv	96
3) Chlorodifluoromethane	3.10	51	32105m	0.243	ppbv	
4) Chloromethane	3.27	50	20603m	0.306	ppbv	
5) Vinyl Chloride	3.39	62	10855	0.143	ppbv	97
7) Chloroethane	3.70	64	7364	0.243	ppbv #	76
9) Propene	3.14	41	138950m	3.043	ppbv	
11) Trichlorofluoromethane	4.11	101	500888	2.181	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.67	101	40906	0.274	ppbv	98
13) Ethanol	3.76	45	1368190	88.268	ppbv	99
15) Acetone	4.03	43	317859	1.819	ppbv #	79
20) Methylene Chloride	4.52	84	273983	4.304	ppbv	94
24) 1,1-Dichloroethane	5.21	63	416655	2.360	ppbv	98
26) Hexane	5.91	57	50635	0.398	ppbv #	60
29) Chloroform	5.97	83	137885	0.640	ppbv	98
30) Cyclohexane	7.40	84	30049m	0.331	ppbv	
31) cis-1,2-Dichloroethene	5.76	61	214399	1.862	ppbv	98
32) 1,1,1-Trichloroethane	6.75	97	891201	4.247	ppbv	100
35) Carbon Tetrachloride	7.26	117	13829m	0.067	ppbv	
38) Trichloroethene	8.10	130	1544316	17.789	ppbv	98

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

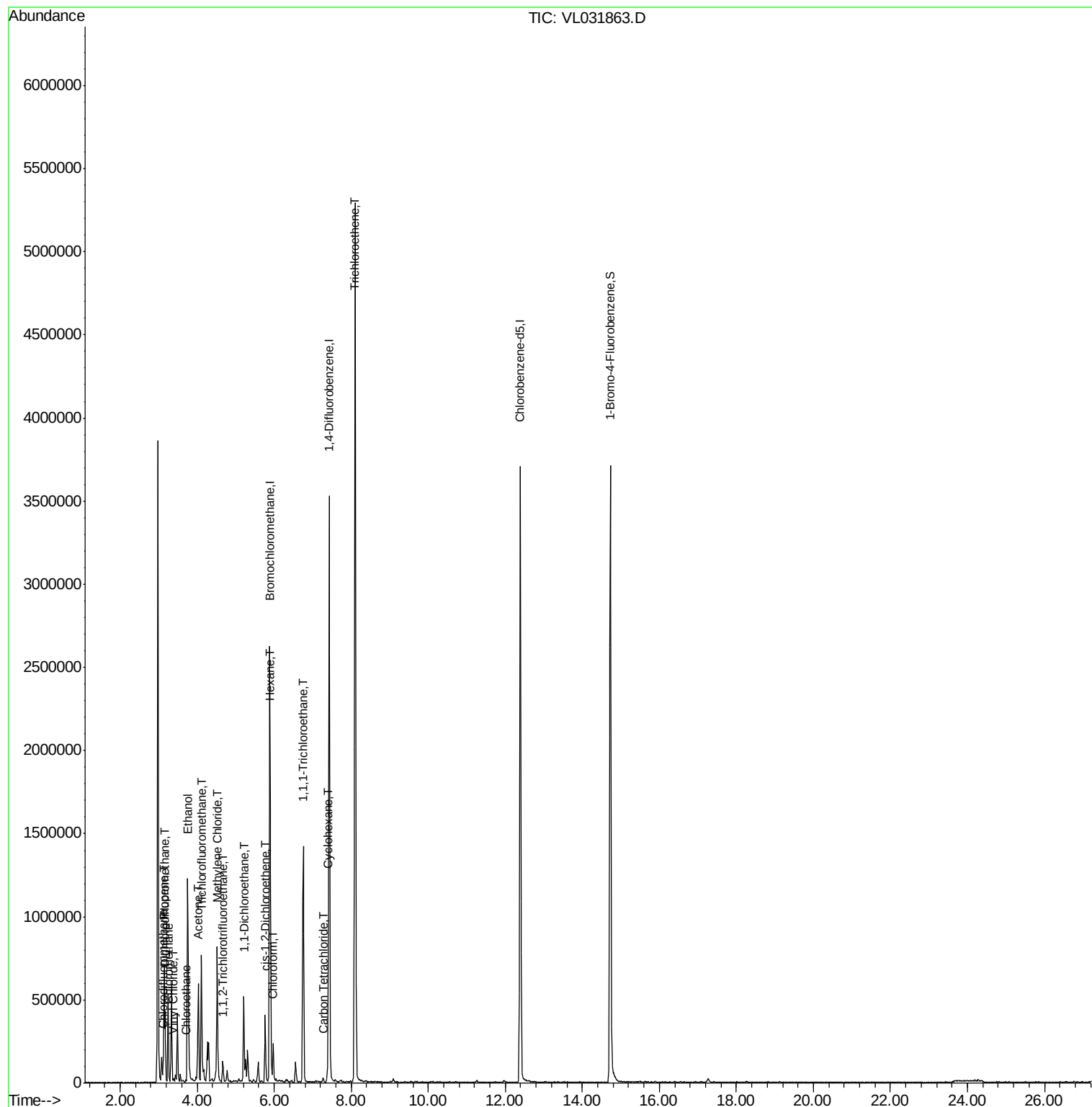
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041218\
Data File : VL031863.D
Acq On : 12 Apr 2018 12:20
Operator : SY/AP
Sample : J2191-07DUP
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

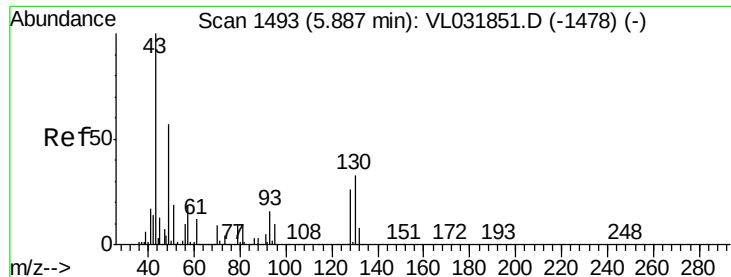
Instrument :
MSVOA_L
ClientSampleId :
GAC-EFF-040218DUP

Manual Integrations
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Quant Time: Apr 14 02:00:37 2018
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr
QLast Update : Fri Apr 13 16:50:02 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.89 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VL031863.D

Acq: 12 Apr 2018 12:20

Instrument :

MSVOA_L

ClientSampleId :

GAC-EFF-040218DUP

Tot Ion: 49 Resp: 1135685

Ion Ratio Lower Upper

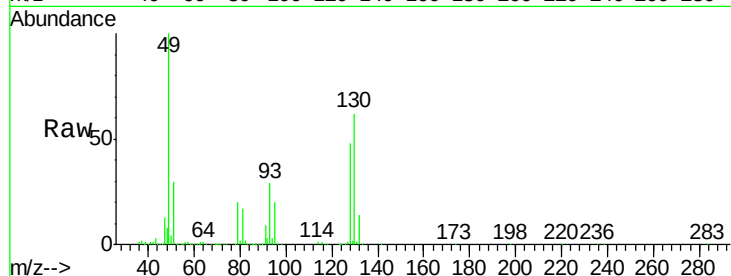
49 100

128 48.6 23.9 71.7

130 62.7 30.9 92.7

Manual Integrations
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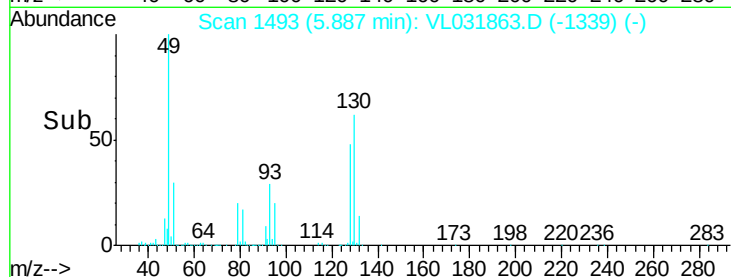
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

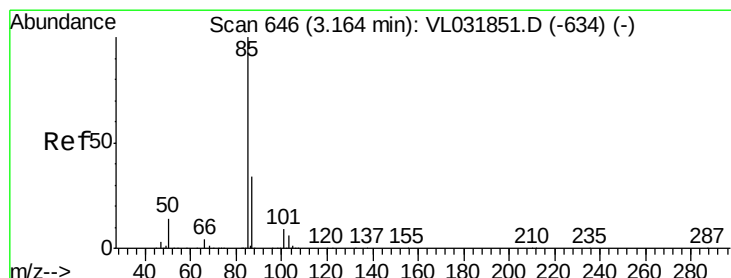
Ion 130.00 (129.70 to 130.70): VL0

5.89

Time-->



Time-->



#2

Dichlorodifluoromethane

Concen: 1.216 ppbv

RT: 3.17 min Scan# 647

Delta R.T. 0.00 min

Lab File: VL031863.D

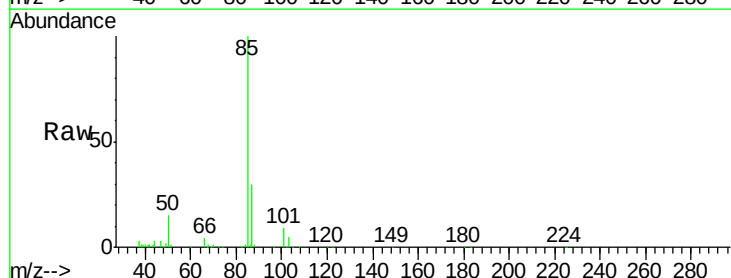
Acq: 12 Apr 2018 12:20

Tgt Ion: 85 Resp: 284793

Ion Ratio Lower Upper

85 100

87 30.1 25.9 38.9

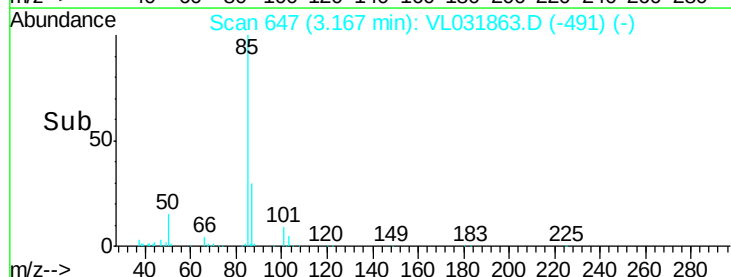


Abundance Ion 85.00 (84.70 to 85.70): VL0

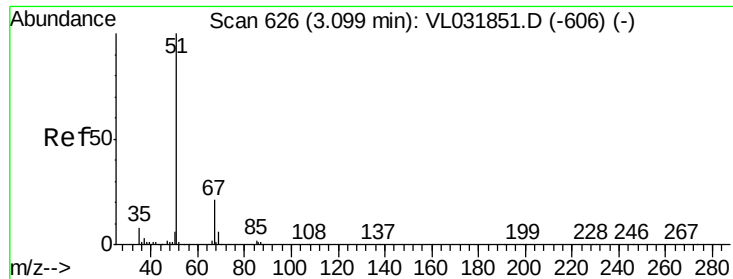
Ion 87.00 (86.70 to 87.70): VL0

3.17

Time-->



Time-->



#3

Chlorodifluoromethane

Concen: 0.243 ppbv m

RT: 3.10 min Scan# 627

Delta R.T. 0.00 min

Lab File: VL031863.D

Acq: 12 Apr 2018 12:20

Instrument :

MSVOA_L

ClientSampleId :

GAC-EFF-040218DUP

Tot Ion: 51 Resp: 32105

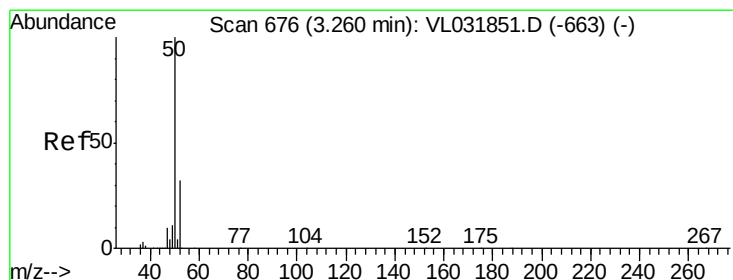
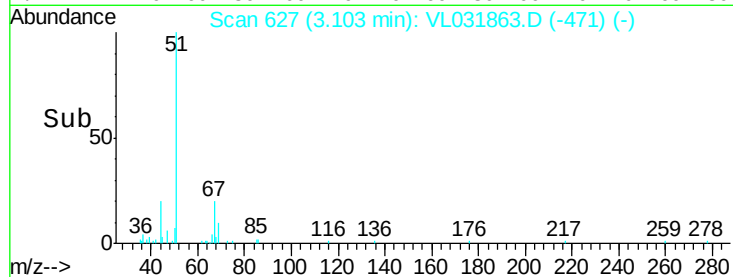
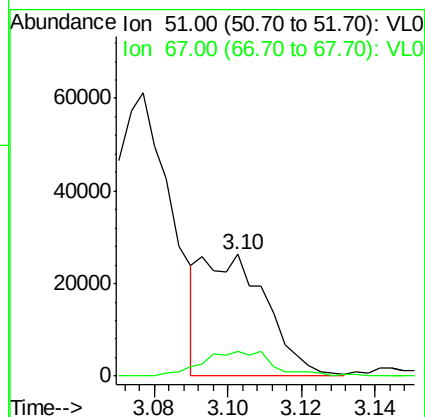
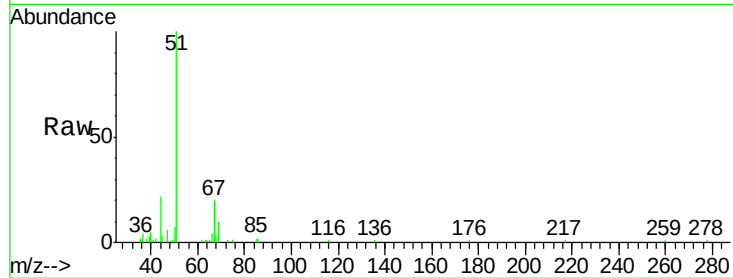
Ion Ratio Lower Upper

51 100

67 2.9 17.5 26.3#

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#4

Chloromethane

Concen: 0.306 ppbv m

RT: 3.27 min Scan# 678

Delta R.T. 0.01 min

Lab File: VL031863.D

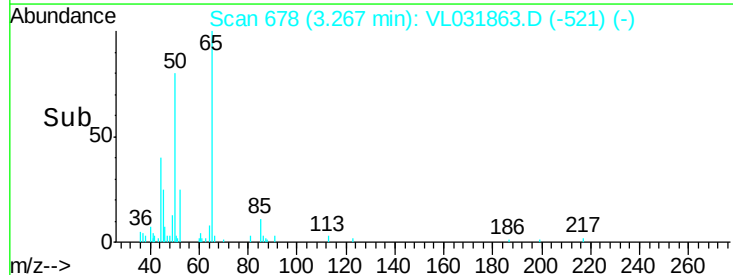
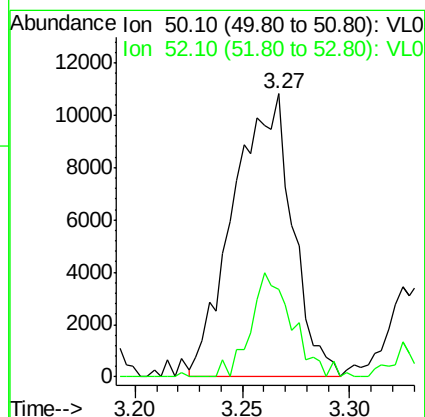
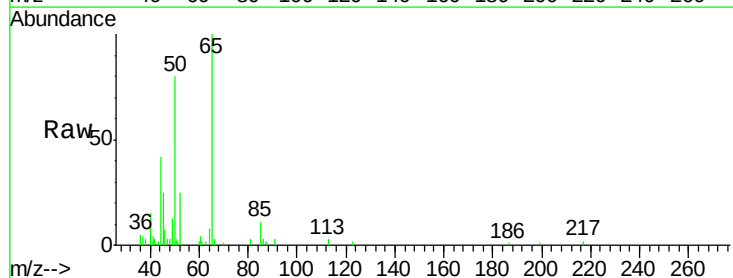
Acq: 12 Apr 2018 12:20

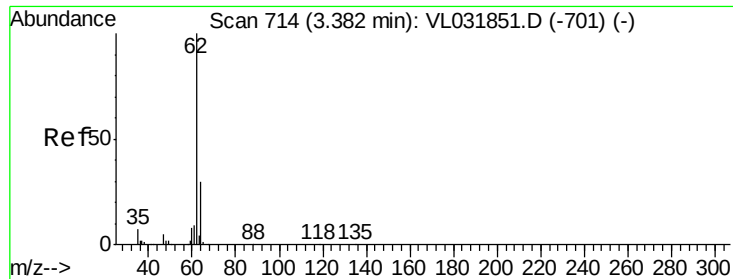
Tgt Ion: 50 Resp: 20603

Ion Ratio Lower Upper

50 100

52 30.8 28.1 42.1





#5

Vinyl Chloride

Concen: 0.143 ppbv

RT: 3.39 min Scan# 715

Delta R.T. 0.00 min

Lab File: VL031863.D

Acq: 12 Apr 2018 12:20

Instrument :

MSVOA_L

ClientSampleId :

GAC-EFF-040218DUP

Tot Ion: 62 Resp: 10855

Ion Ratio Lower Upper

62 100

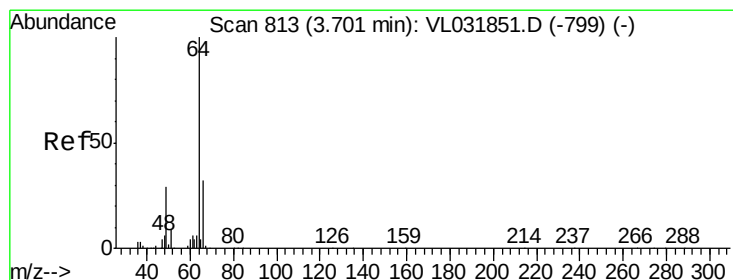
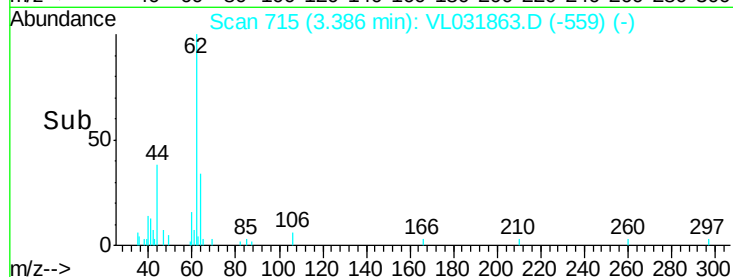
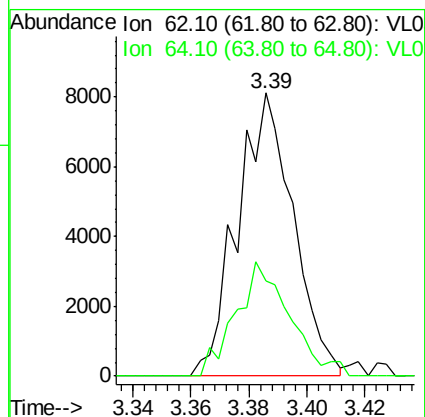
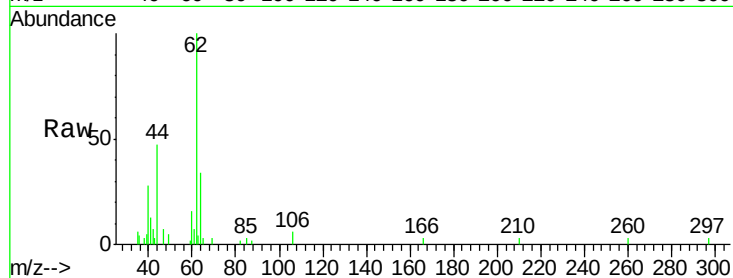
64 33.8 25.9 38.9

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#7

Chloroethane

Concen: 0.243 ppbv

RT: 3.70 min Scan# 812

Delta R.T. -0.00 min

Lab File: VL031863.D

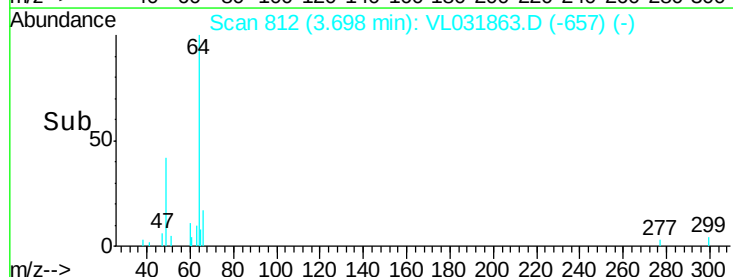
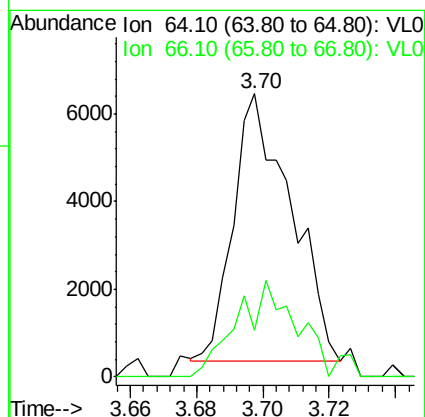
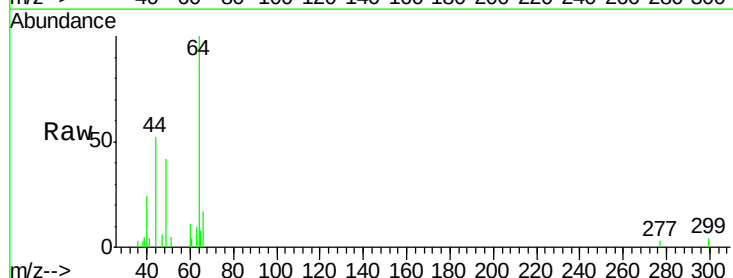
Acq: 12 Apr 2018 12:20

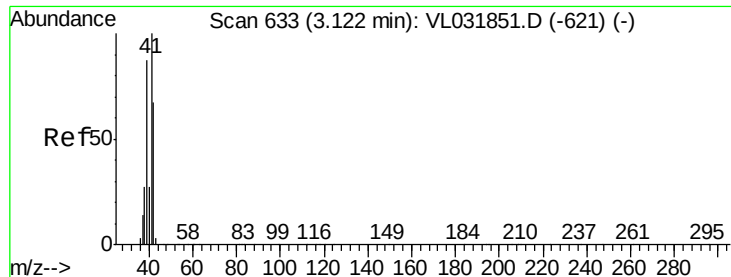
Tgt Ion: 64 Resp: 7364

Ion Ratio Lower Upper

64 100

66 16.5 23.4 35.0#





#9

Propene

Concen: 3.043 ppbv m

RT: 3.14 min Scan# 638

Delta R.T. 0.02 min

Lab File: VL031863.D

Acq: 12 Apr 2018 12:20

Instrument :

MSVOA_L

ClientSampleId :

GAC-EFF-040218DUP

Tot Ion: 41 Resp: 138950

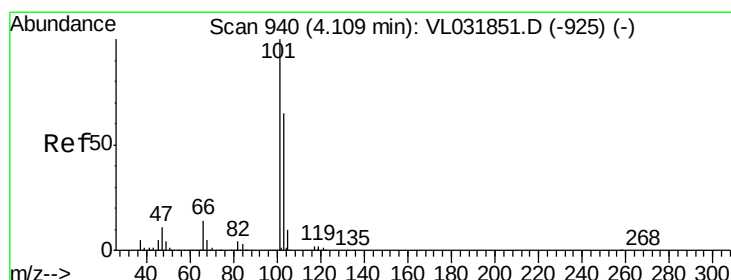
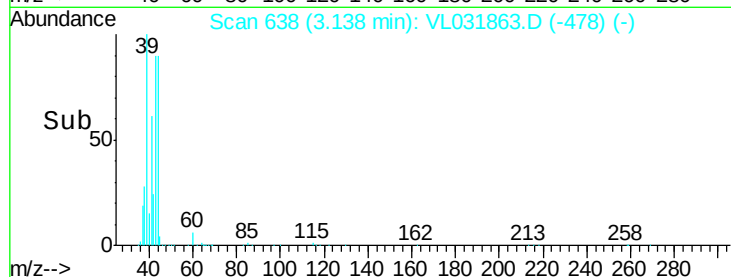
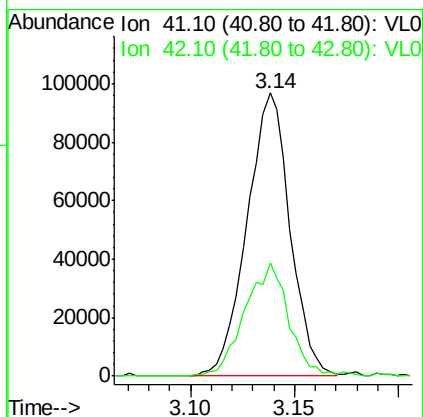
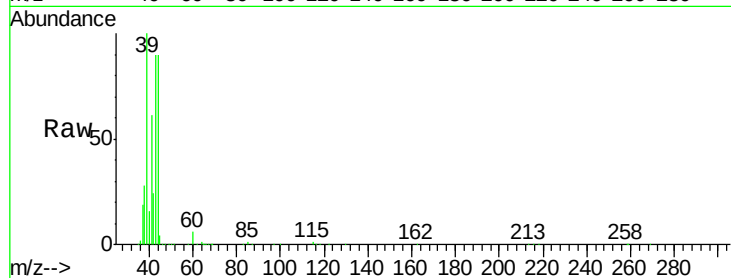
Ion Ratio Lower Upper

41 100

42 72.5 55.0 82.4

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#11

Trichlorofluoromethane

Concen: 2.181 ppbv

RT: 4.11 min Scan# 940

Delta R.T. -0.00 min

Lab File: VL031863.D

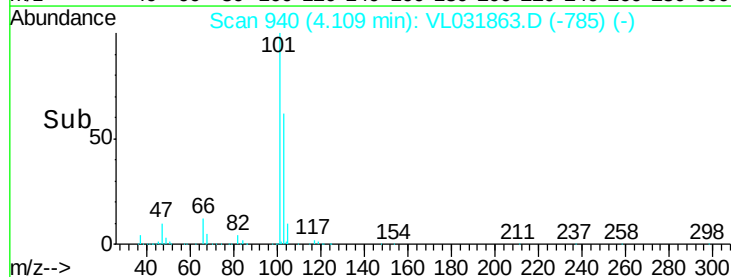
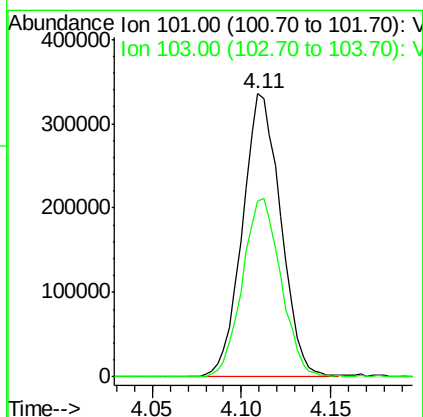
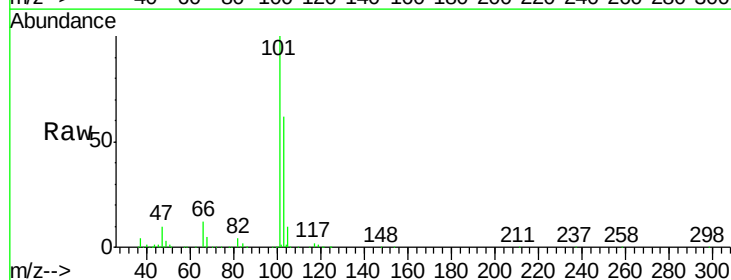
Acq: 12 Apr 2018 12:20

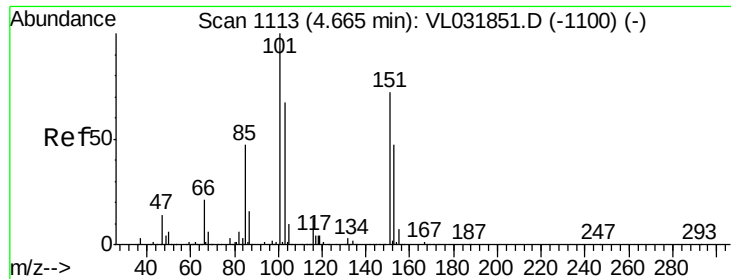
Tgt Ion: 101 Resp: 500888

Ion Ratio Lower Upper

101 100

103 62.1 51.8 77.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.274 ppbv

RT: 4.67 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VL031863.D

Acq: 12 Apr 2018 12:20

Instrument :

MSVOA_L

ClientSampleId :

GAC-EFF-040218DUP

Tot Ion:101 Resp: 40906

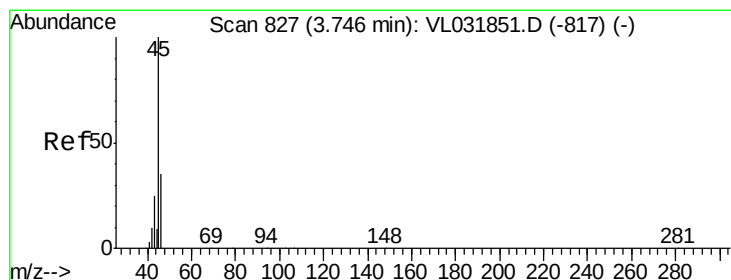
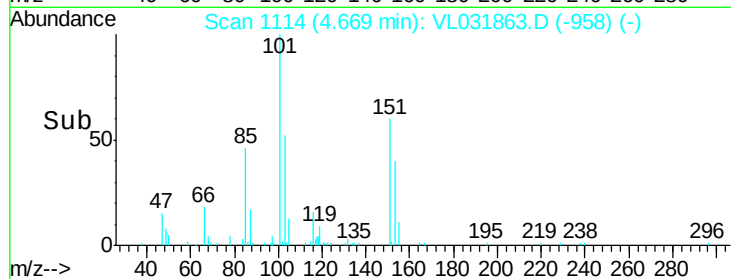
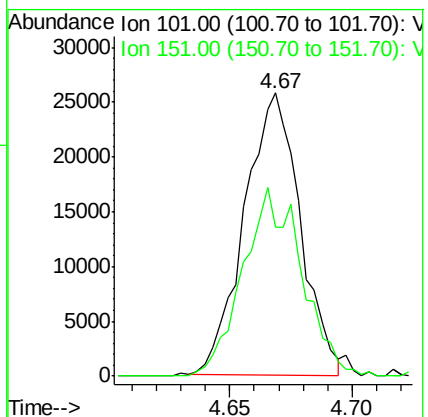
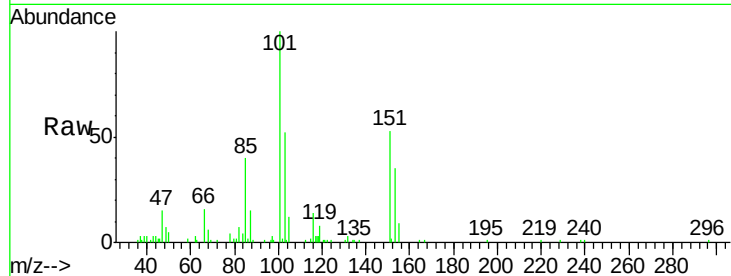
Ion Ratio Lower Upper

101 100

151 70.0 57.0 85.6

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#13

Ethanol

Concen: 88.268 ppbv

RT: 3.76 min Scan# 830

Delta R.T. 0.00 min

Lab File: VL031863.D

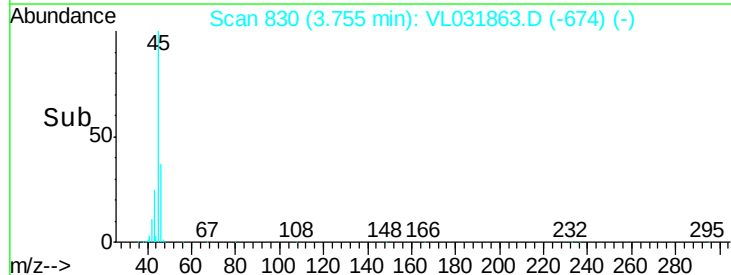
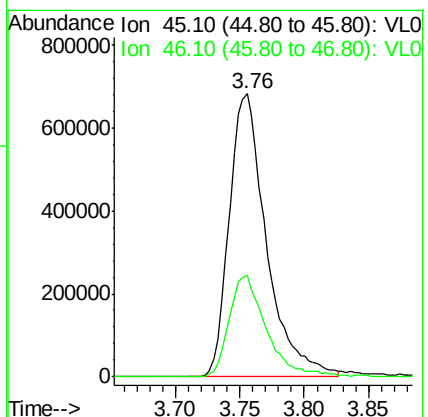
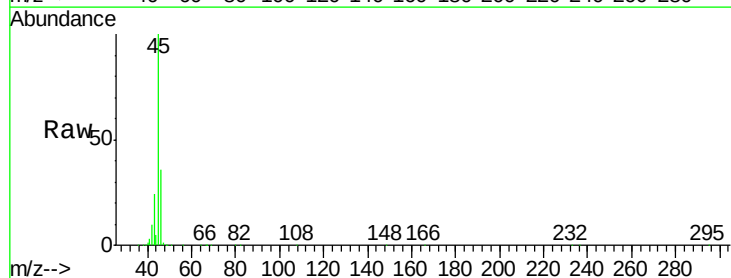
Acq: 12 Apr 2018 12:20

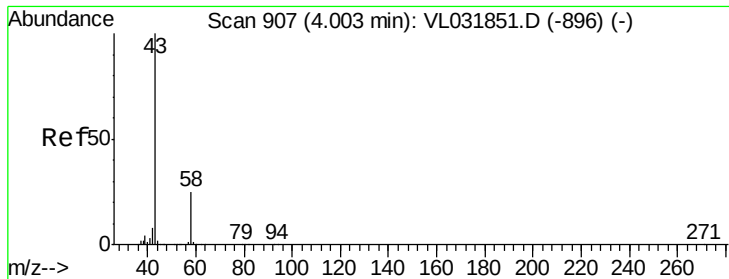
Tgt Ion: 45 Resp: 1368190

Ion Ratio Lower Upper

45 100

46 36.2 14.6 58.6





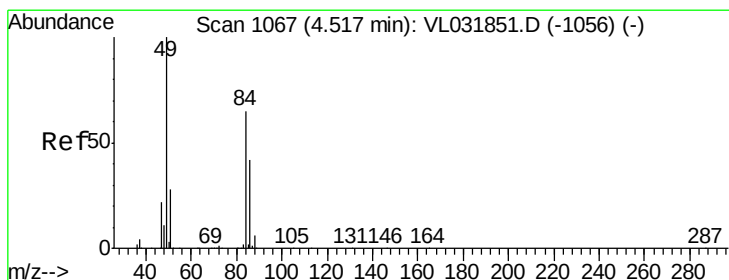
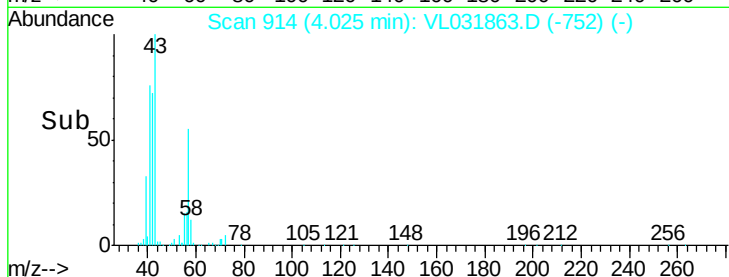
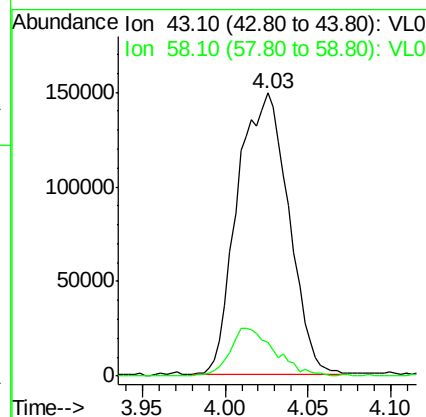
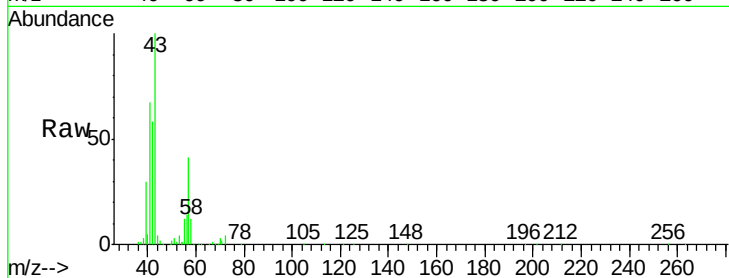
#15
Acetone
Concen: 1.819 ppbv
RT: 4.03 min Scan# 914
Delta R.T. 0.02 min
Lab File: VL031863.D
Acq: 12 Apr 2018 12:20

Instrument :
MSVOA_L
ClientSampleId :
GAC-EFF-040218DUP

Tot Ion: 43 Resp: 317859
Ion Ratio Lower Upper
43 100
58 15.4 20.9 31.3#

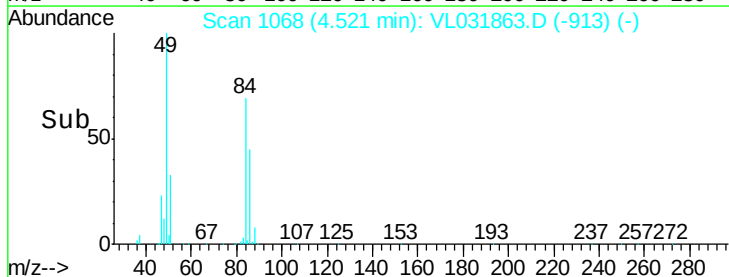
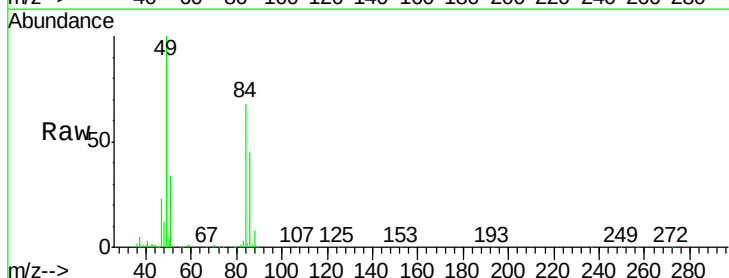
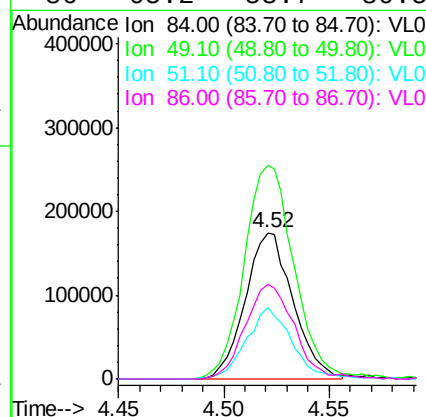
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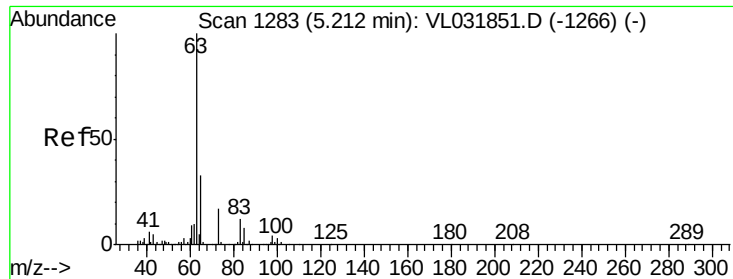
MMDadoda
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#20
Methylene Chloride
Concen: 4.304 ppbv
RT: 4.52 min Scan# 1068
Delta R.T. -0.00 min
Lab File: VL031863.D
Acq: 12 Apr 2018 12:20

Tgt Ion: 84 Resp: 273983
Ion Ratio Lower Upper
84 100
49 146.1 125.6 188.4
51 48.8 36.4 54.6
86 65.2 53.7 80.5





#24

1,1-Dichloroethane

Concen: 2.360 ppbv

RT: 5.21 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VL031863.D

Acq: 12 Apr 2018 12:20

Instrument :

MSVOA_L

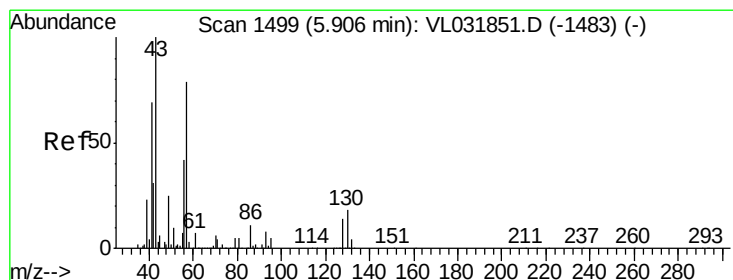
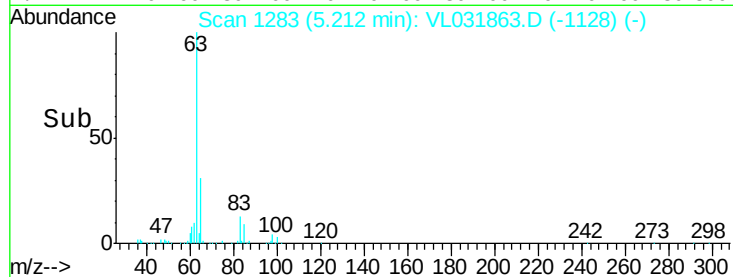
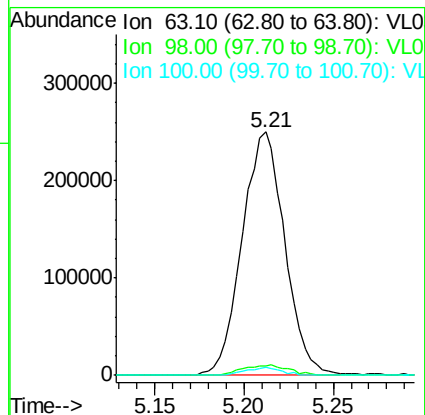
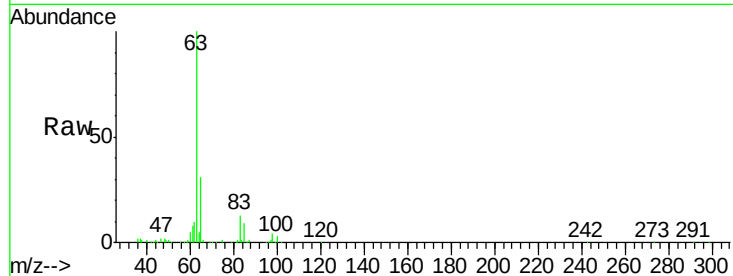
ClientSampleId :

GAC-EFF-040218DUP

Tot Ion:	63	Resp:	416655
Ion Ratio		Lower	Upper
63	100		
98	3.9	2.4	7.2
100	3.5	1.5	4.4

Manual Integrations
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#26

Hexane

Concen: 0.398 ppbv

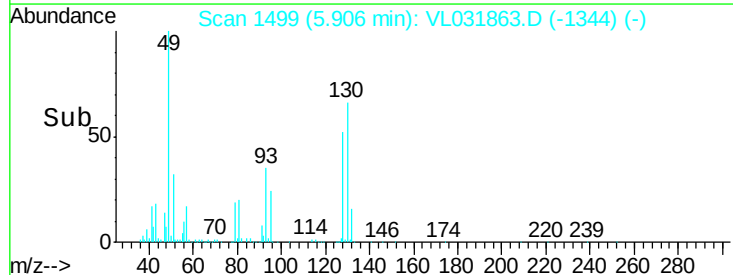
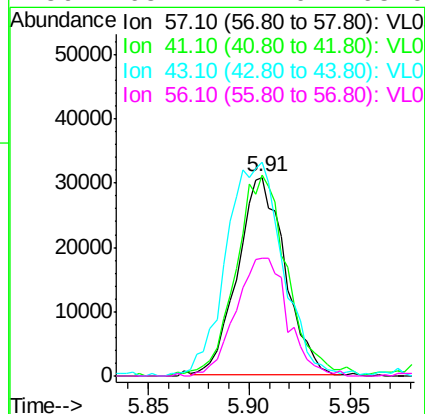
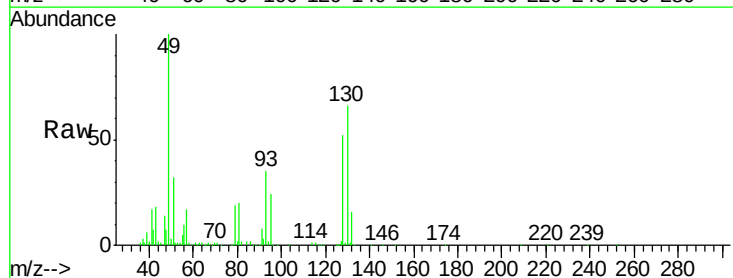
RT: 5.91 min Scan# 1499

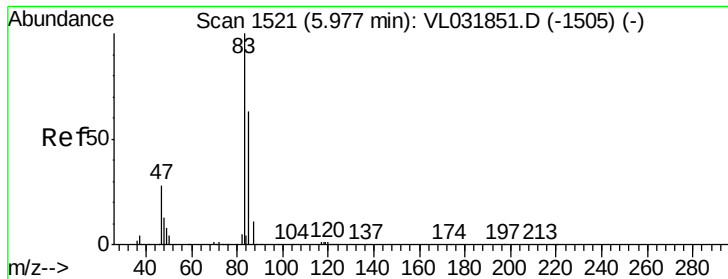
Delta R.T. -0.00 min

Lab File: VL031863.D

Acq: 12 Apr 2018 12:20

Tgt Ion:	57	Resp:	50635
Ion Ratio		Lower	Upper
57	100		
41	109.9	72.0	108.0#
43	129.3	169.8	254.8#
56	65.2	42.0	63.0#





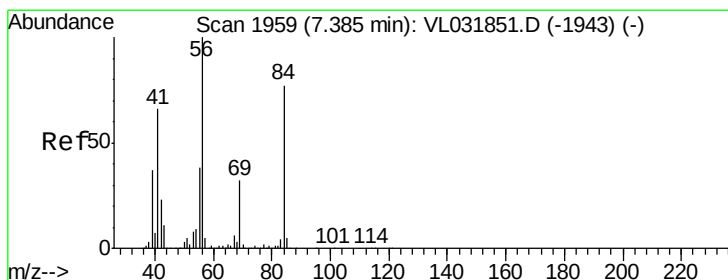
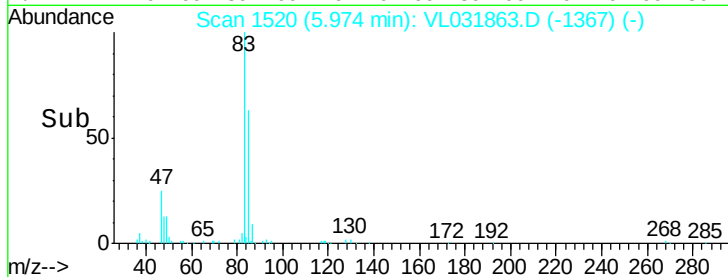
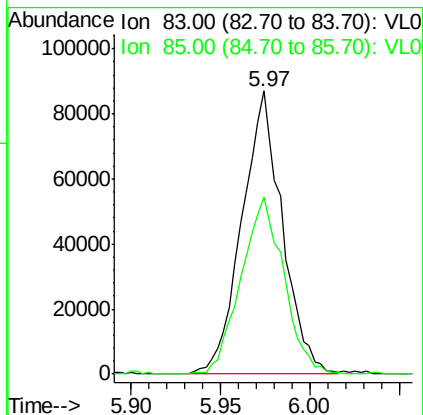
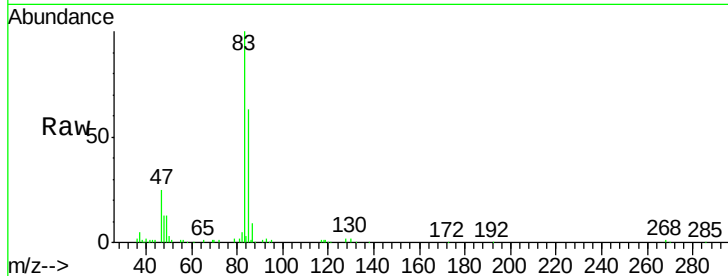
#29
Chloroform
Concen: 0.640 ppbv
RT: 5.97 min Scan# 1520
Delta R.T. -0.01 min
Lab File: VL031863.D
Acq: 12 Apr 2018 12:20

Instrument :
MSVOA_L
ClientSampleId :
GAC-EFF-040218DUP

Tot Ion	83	Resp	137885
Ion Ratio	100	Lower	Upper
83	100		
85	62.4	51.4	77.0

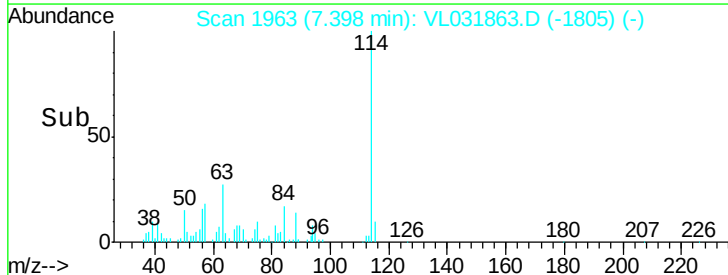
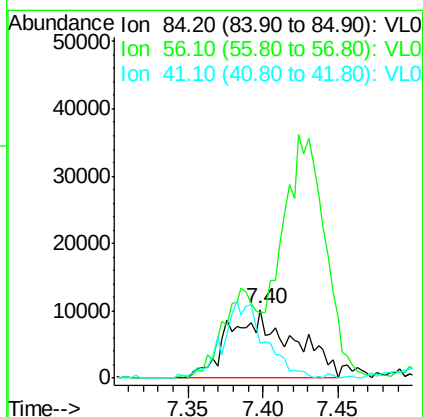
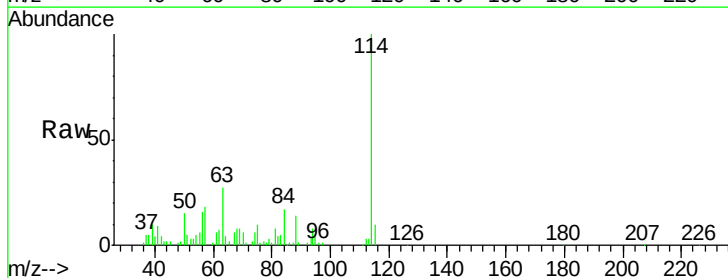
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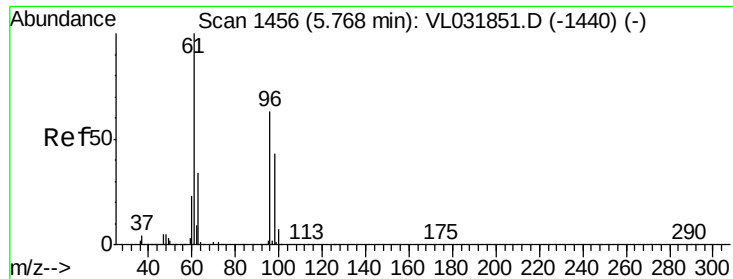
MMDadoda
4/15/2018 3:06:44 PM



#30
Cyclohexane
Concen: 0.331 ppbv m
RT: 7.40 min Scan# 1963
Delta R.T. 0.01 min
Lab File: VL031863.D
Acq: 12 Apr 2018 12:20

Tgt Ion	84	Resp	30049
Ion Ratio	100	Lower	Upper
84	100		
56	0.0	107.7	161.5#
41	75.2	68.2	102.2





#31

cis-1,2-Dichloroethene

Concen: 1.862 ppbv

RT: 5.76 min Scan# 1455

Delta R.T. -0.00 min

Lab File: VL031863.D

Acq: 12 Apr 2018 12:20

Instrument :

MSVOA_L

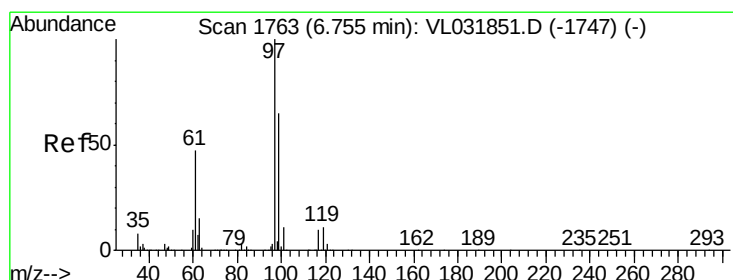
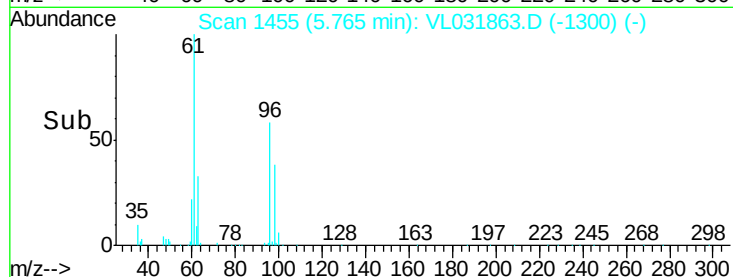
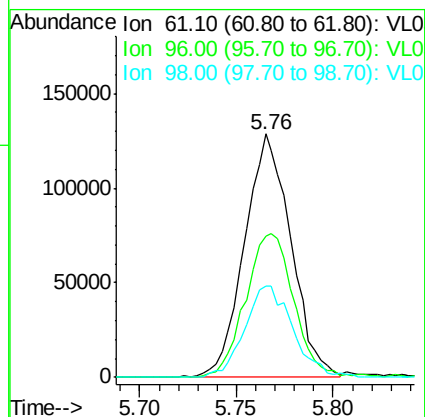
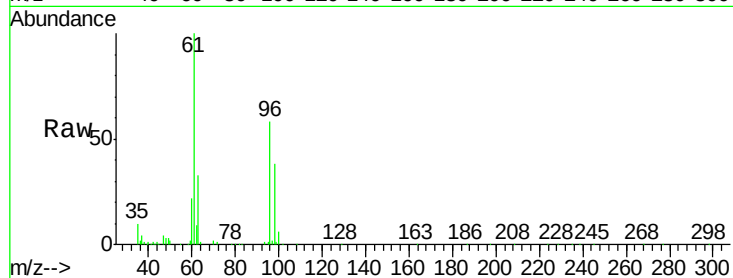
ClientSampleId :

GAC-EFF-040218DUP

Tot Ion:	61	Resp:	214399
Ion Ratio	Lower	Upper	
61	100		
96	58.0	47.6	71.4
98	37.4	30.3	45.5

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#32

1,1,1-Trichloroethane

Concen: 4.247 ppbv

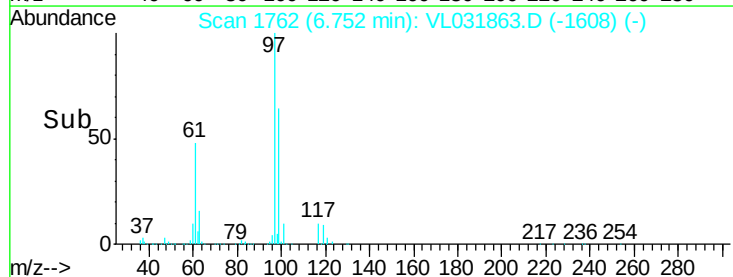
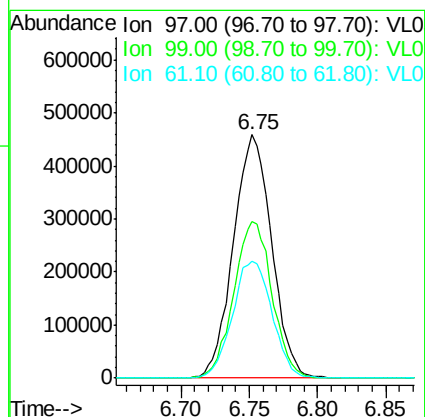
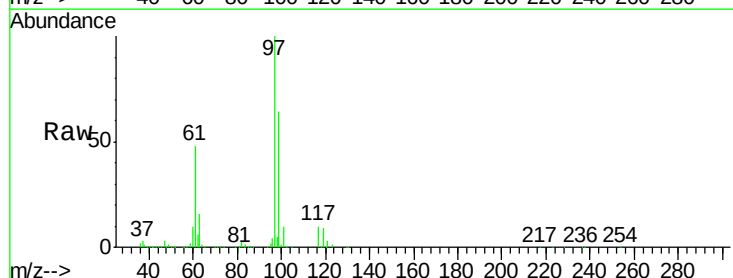
RT: 6.75 min Scan# 1762

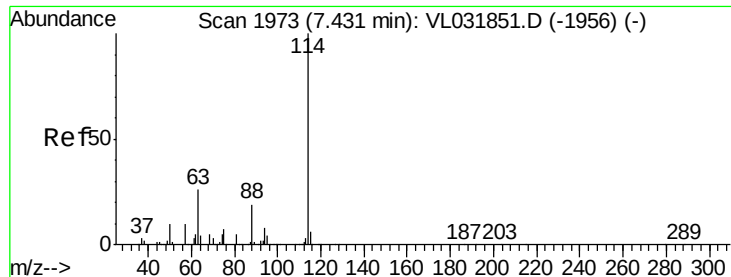
Delta R.T. -0.00 min

Lab File: VL031863.D

Acq: 12 Apr 2018 12:20

Tgt Ion:	97	Resp:	891201
Ion Ratio	Lower	Upper	
97	100		
99	64.3	51.5	77.3
61	50.0	40.0	60.0





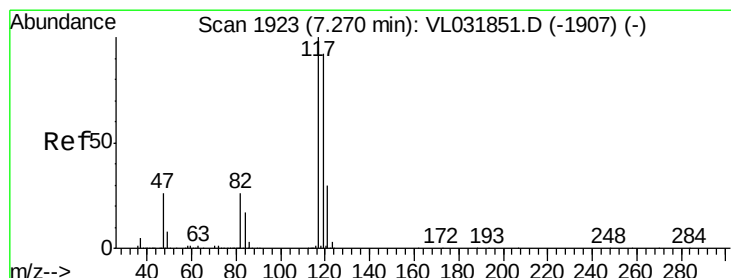
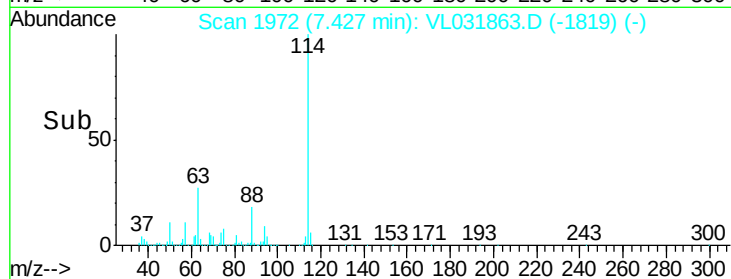
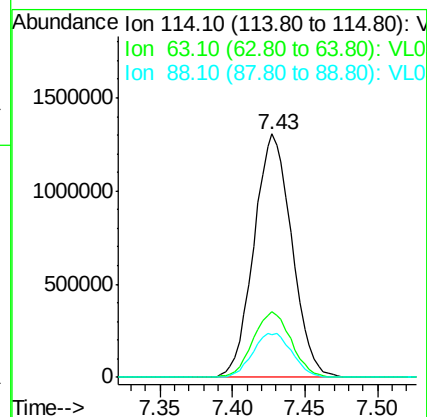
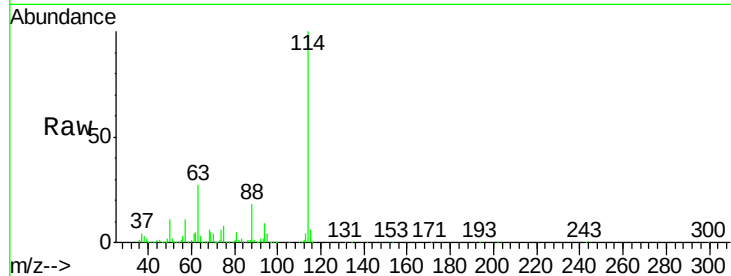
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.43 min Scan# 1972
 Delta R.T. -0.01 min
 Lab File: VL031863.D
 Acq: 12 Apr 2018 12:20

Instrument :
 MSVOA_L
 ClientSampleId :
 GAC-EFF-040218DUP

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.4	21.8	32.6
88	18.9	14.6	22.0

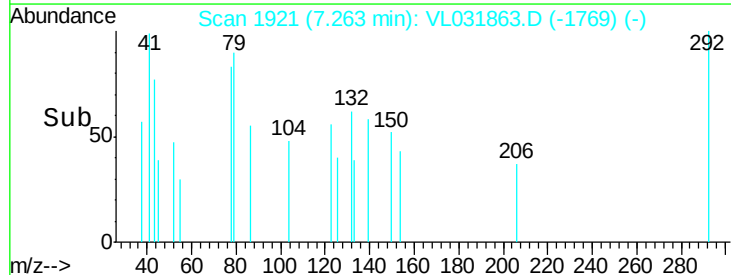
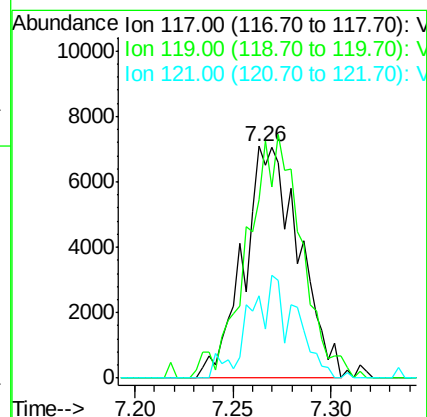
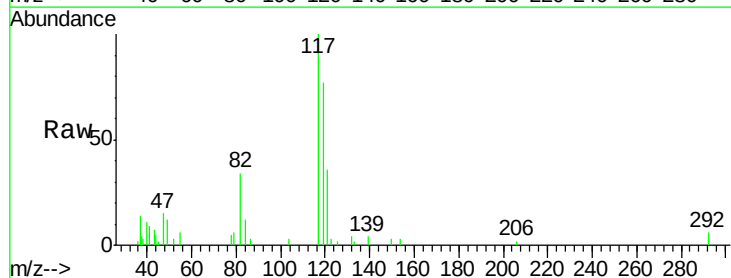
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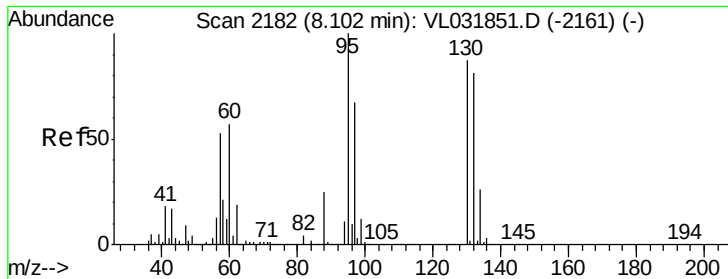
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#35
 Carbon Tetrachloride
 Concen: 0.067 ppbv m
 RT: 7.26 min Scan# 1921
 Delta R.T. -0.01 min
 Lab File: VL031863.D
 Acq: 12 Apr 2018 12:20

Tgt Ion	Ratio	Lower	Upper
117	100		
119	76.8	76.9	115.3#
121	35.7	24.5	36.7





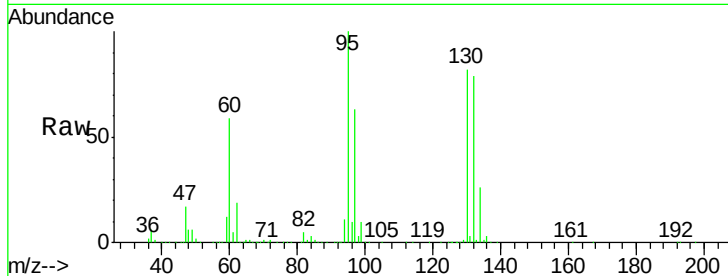
#38
 Trichloroethene
 Concen: 17.789 ppbv
 RT: 8.10 min Scan# 2181
 Delta R.T. -0.00 min
 Lab File: VL031863.D
 Acq: 12 Apr 2018 12:20

Instrument :
 MSVOA_L
 ClientSampleId :
 GAC-EFF-040218DUP

Tot Ion	Ratio	Lower	Upper
130	100		
95	122.2	96.6	144.8
132	95.9	79.1	118.7
97	76.5	61.5	92.3

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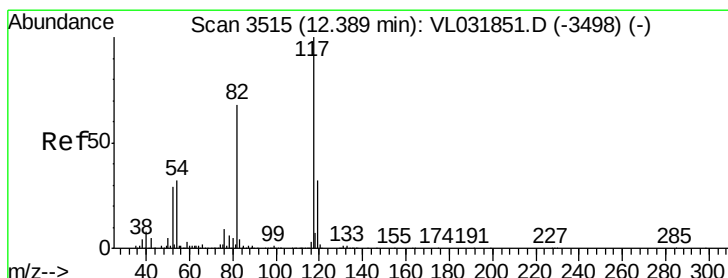
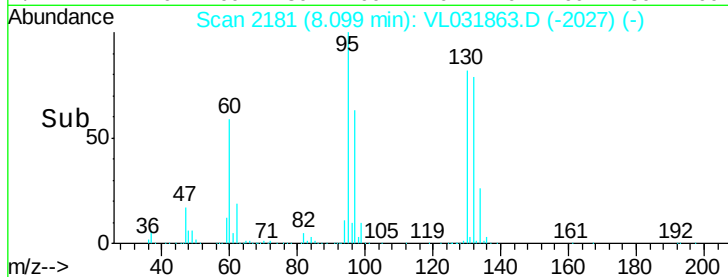
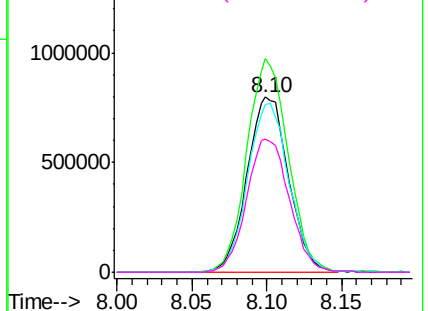


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

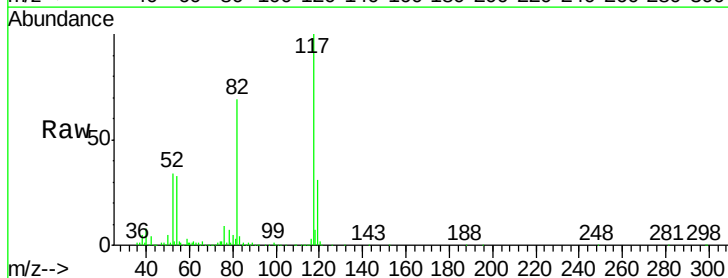
Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.39 min Scan# 3515
 Delta R.T. -0.00 min
 Lab File: VL031863.D
 Acq: 12 Apr 2018 12:20

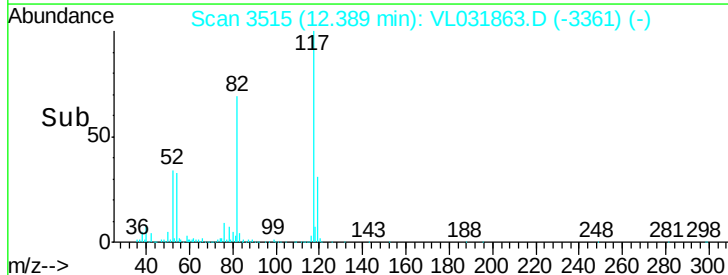
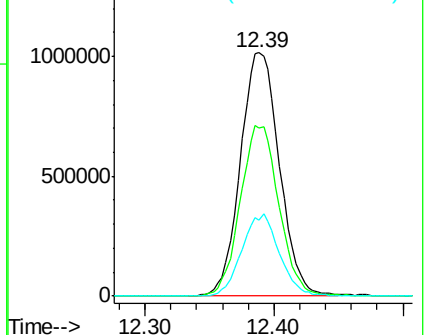
Tgt Ion	Ratio	Lower	Upper
117	100		
82	70.0	54.6	81.8
119	32.5	26.0	39.0

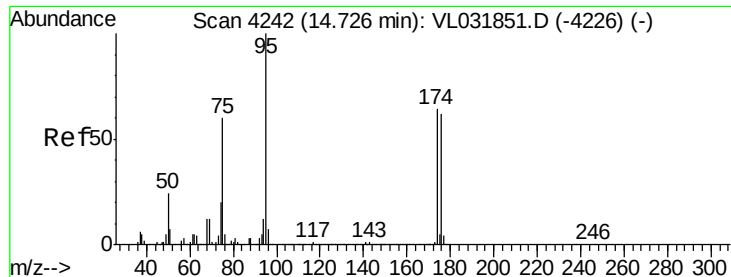


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.986 ppbv
 RT: 14.72 min Scan# 4241
 Delta R.T. -0.01 min
 Lab File: VL031863.D
 Acq: 12 Apr 2018 12:20

Instrument :
 MSVOA_L
 ClientSampleId :
 GAC-EFF-040218DUP

Tot Ion	Ratio	Lower	Upper
95	100		
174	64.6	52.3	78.5
175	4.5	3.9	5.9

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