

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041218\
 Data File : VL031865.D
 Acq On : 12 Apr 2018 13:40
 Operator : SY/AP
 Sample : J2191-05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 GAC-EFF-DUP-040218

Manual Integrations
 APPROVED

MMDadoda
 4/15/2018 3:06:53 PM

Quant Time: Apr 14 02:09:02 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr 13 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	1115765	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2285202	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2178682	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.73	95	1748525	9.98	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.16	85	332980	1.447	ppbv	98
3) Chlorodifluoromethane	3.09	51	35858m	0.276	ppbv	
4) Chloromethane	3.26	50	24314m	0.367	ppbv	
5) Vinyl Chloride	3.38	62	12789m	0.171	ppbv	
7) Chloroethane	3.70	64	7705	0.259	ppbv #	72
9) Propene	3.13	41	153337m	3.417	ppbv	
11) Trichlorofluoromethane	4.11	101	484612	2.148	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.67	101	42081m	0.287	ppbv	
13) Ethanol	3.75	45	1368683	89.876	ppbv	100
15) Acetone	4.01	43	608385	3.543	ppbv #	86
20) Methylene Chloride	4.52	84	2169335	34.684	ppbv	94
24) 1,1-Dichloroethane	5.21	63	399861	2.305	ppbv	99
26) Hexane	5.91	57	218840	1.752	ppbv #	48
29) Chloroform	5.98	83	136759	0.646	ppbv	92
30) Cyclohexane	7.39	84	29466m	0.330	ppbv	
31) cis-1,2-Dichloroethene	5.76	61	215589	1.906	ppbv	95
32) 1,1,1-Trichloroethane	6.76	97	854738	4.146	ppbv	99
35) Carbon Tetrachloride	7.28	117	16070	0.081	ppbv #	77
38) Trichloroethene	8.10	130	1691102	20.268	ppbv	94

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

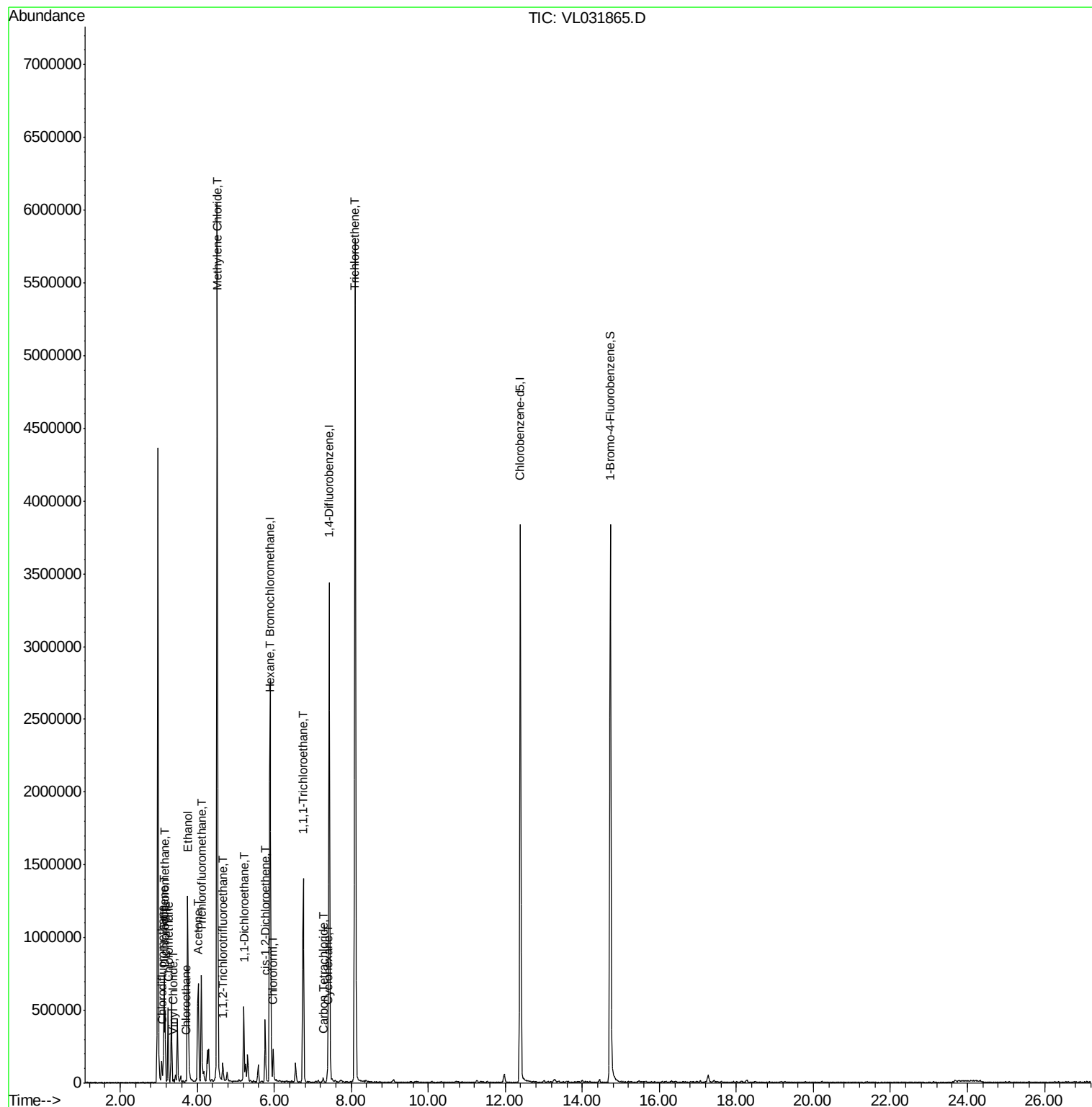
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041218\
Data File : VL031865.D
Acq On : 12 Apr 2018 13:40
Operator : SY/AP
Sample : J2191-05
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

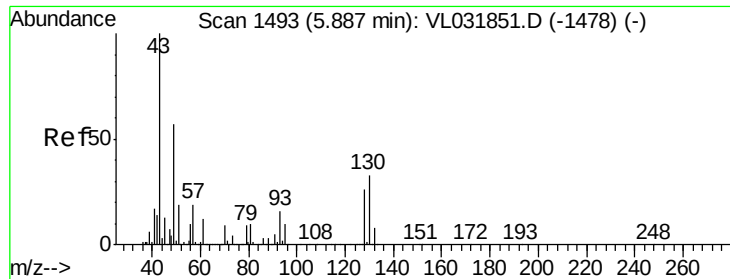
Instrument :
MSVOA_L
ClientSampleId :
GAC-EFF-DUP-040218

Manual Integrations
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Quant Time: Apr 14 02:09:02 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: VL031865.D

Acq: 12 Apr 2018 13:40

Instrument :

MSVOA_L

ClientSampleId :

GAC-EFF-DUP-040218

Tot Ion: 49 Resp: 1115765

Ion Ratio Lower Upper

49 100

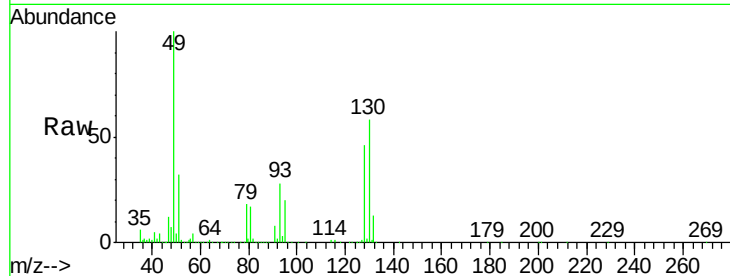
128 48.5 23.9 71.7

130 61.3 30.9 92.7

Manual Integrations
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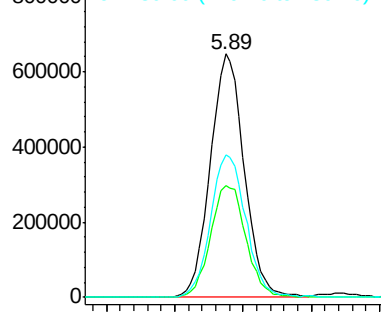
4/15/2018 3:06:53 PM



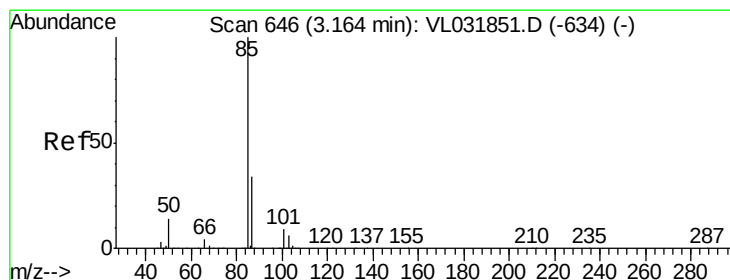
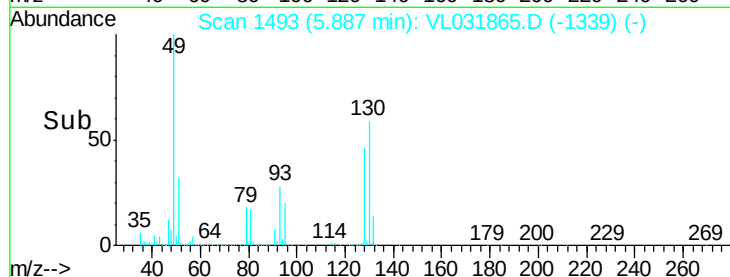
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



Time-->



#2

Dichlorodifluoromethane

Concen: 1.447 ppbv

RT: 3.16 min Scan# 646

Delta R.T. -0.00 min

Lab File: VL031865.D

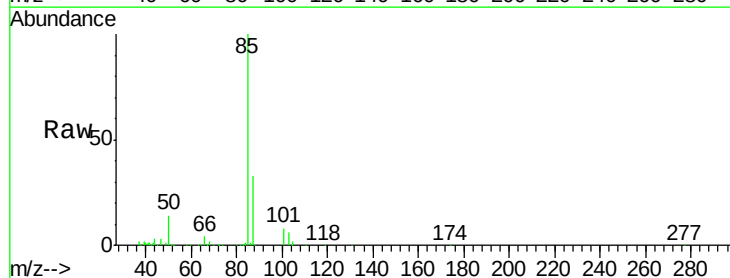
Acq: 12 Apr 2018 13:40

Tgt Ion: 85 Resp: 332980

Ion Ratio Lower Upper

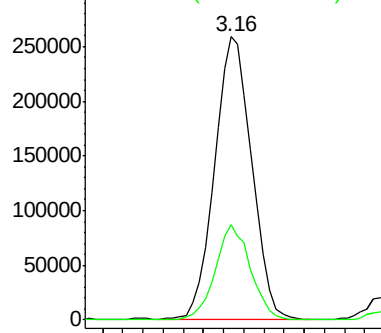
85 100

87 33.5 25.9 38.9

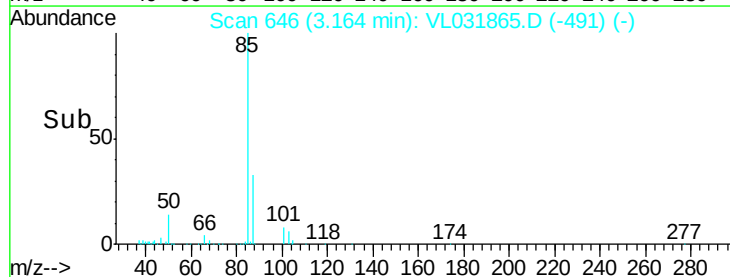


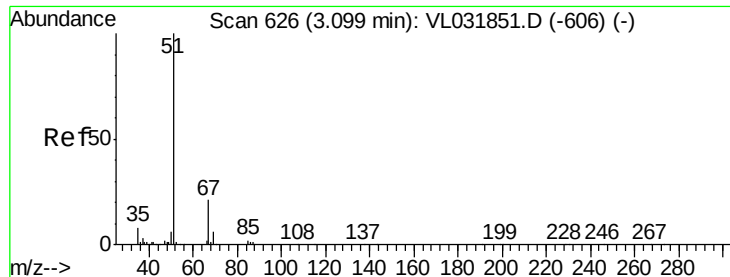
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



Time-->





#3

Chlorodifluoromethane

Concen: 0.276 ppbv m

RT: 3.09 min Scan# 624

Delta R.T. -0.01 min

Lab File: VL031865.D

Acq: 12 Apr 2018 13:40

Instrument :

MSVOA_L

ClientSampleId :

GAC-EFF-DUP-040218

Tot Ion: 51 Resp: 35858

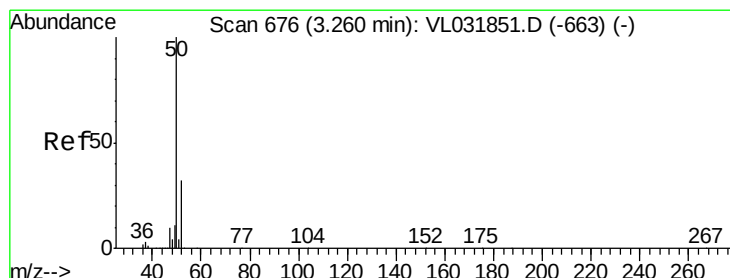
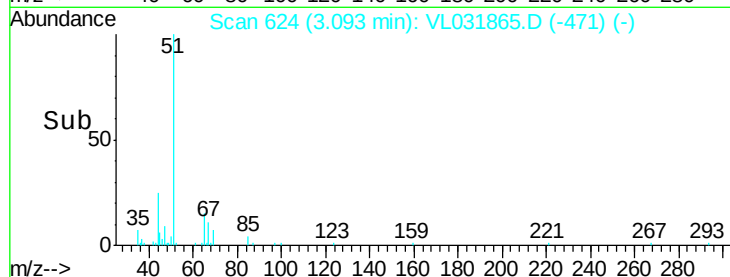
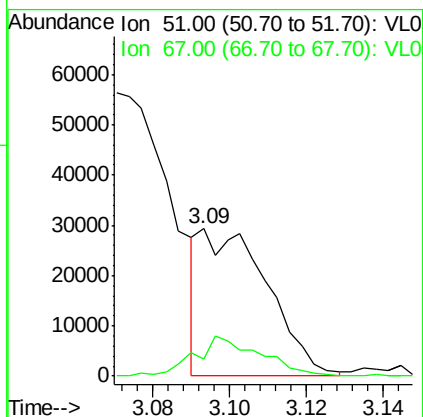
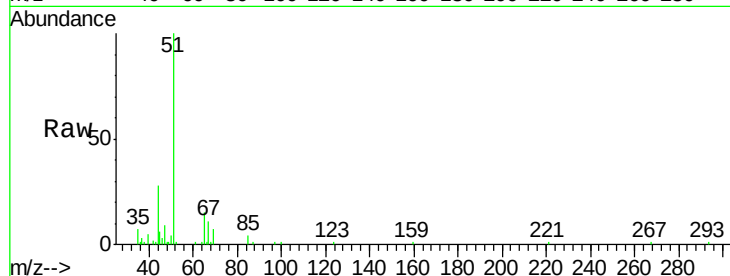
Ion Ratio Lower Upper

51 100

67 3.3 17.5 26.3#

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#4

Chloromethane

Concen: 0.367 ppbv m

RT: 3.26 min Scan# 676

Delta R.T. -0.00 min

Lab File: VL031865.D

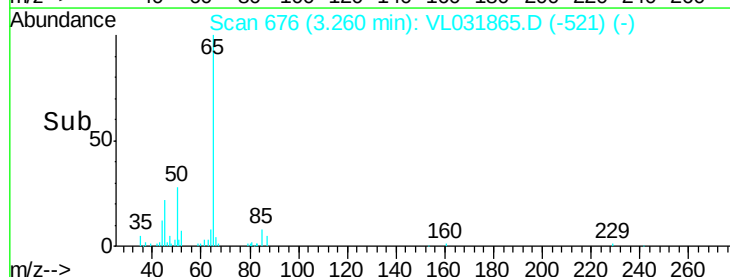
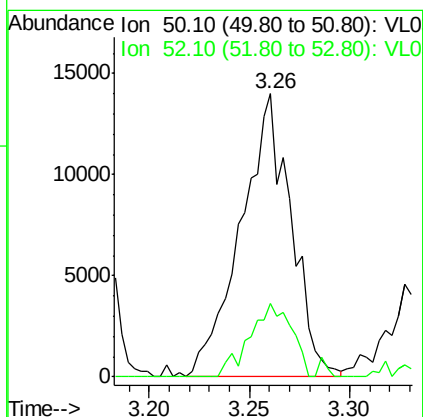
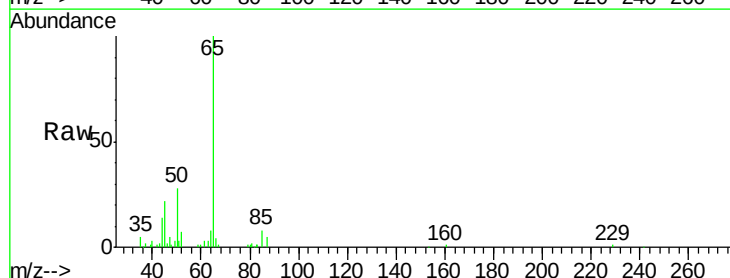
Acq: 12 Apr 2018 13:40

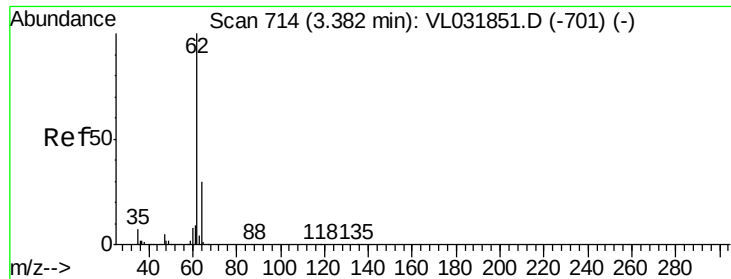
Tgt Ion: 50 Resp: 24314

Ion Ratio Lower Upper

50 100

52 25.8 28.1 42.1#





#5

Vinyl Chloride

Concen: 0.171 ppbv

RT: 3.38 min Scan# 713

Delta R.T. -0.00 min

Lab File: VL031865.D

Acq: 12 Apr 2018 13:40

Instrument :

MSVOA_L

ClientSampleID :

GAC-EFF-DUP-040218

Tot Ion: 62 Resp: 12789

Ion Ratio Lower Upper

62 100

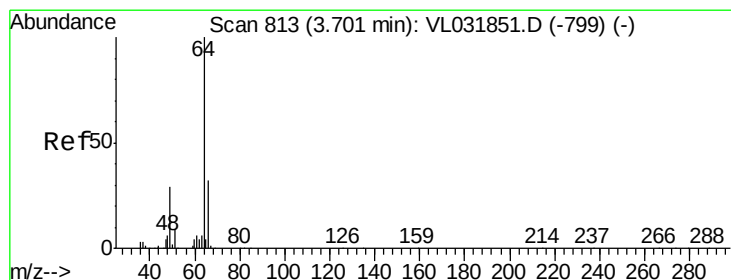
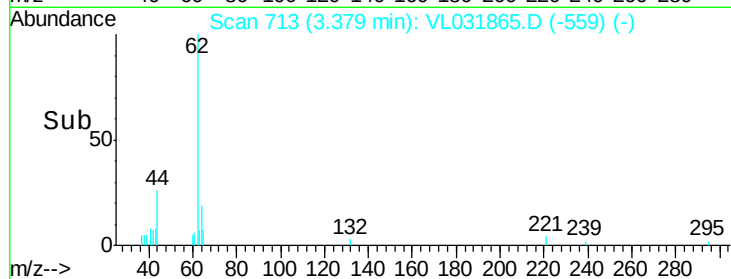
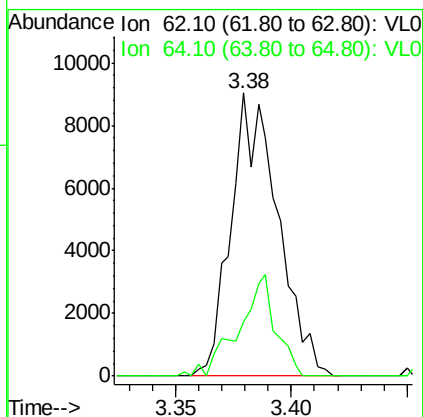
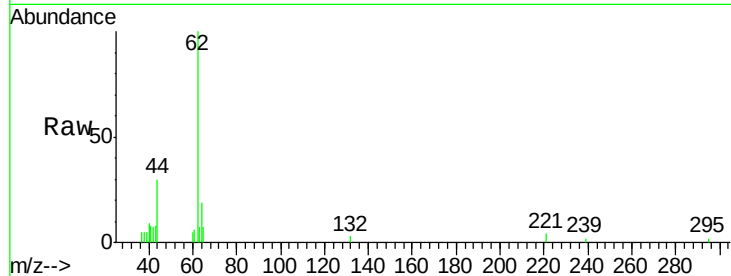
64 19.3 25.9 38.9#

Manual Integrations

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#7

Chloroethane

Concen: 0.259 ppbv

RT: 3.70 min Scan# 813

Delta R.T. 0.00 min

Lab File: VL031865.D

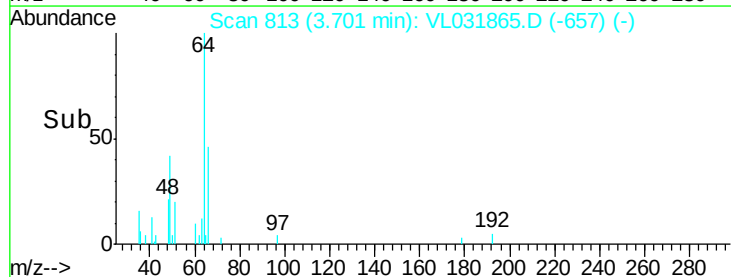
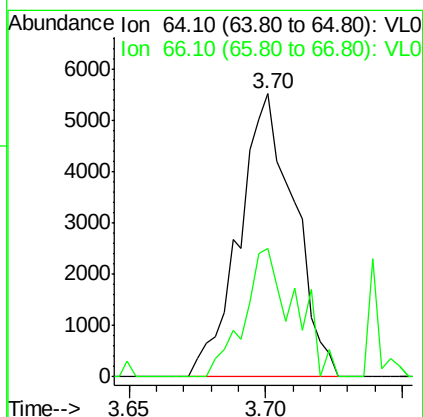
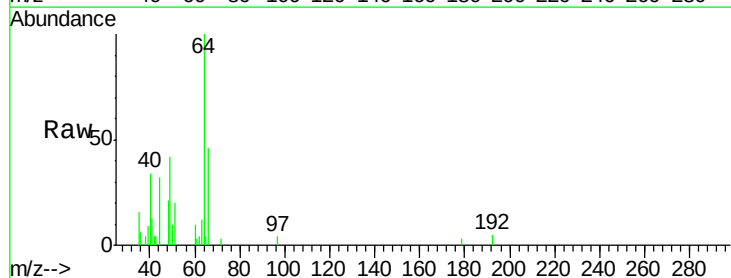
Acq: 12 Apr 2018 13:40

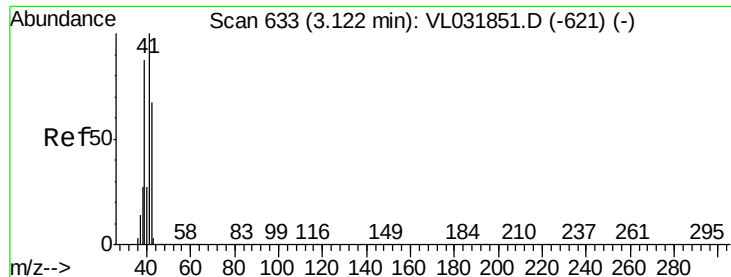
Tgt Ion: 64 Resp: 7705

Ion Ratio Lower Upper

64 100

66 44.0 23.4 35.0#





#9

Propene

Concen: 3.417 ppbv m

RT: 3.13 min Scan# 637

Delta R.T. 0.01 min

Lab File: VL031865.D

Acq: 12 Apr 2018 13:40

Instrument :

MSVOA_L

ClientSampleId :

GAC-EFF-DUP-040218

Tot Ion: 41 Resp: 153337

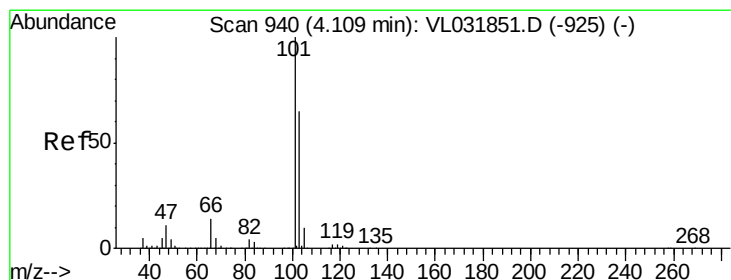
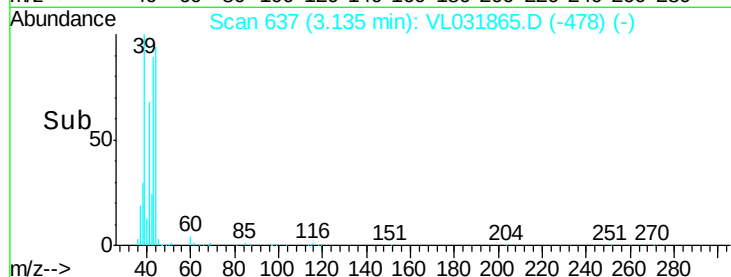
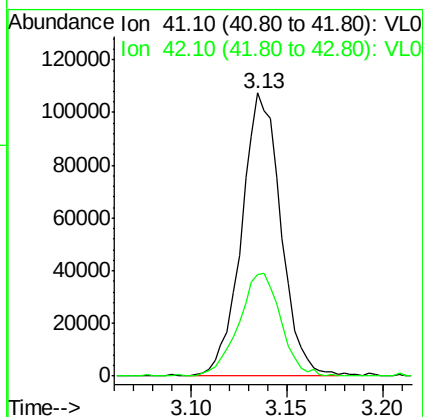
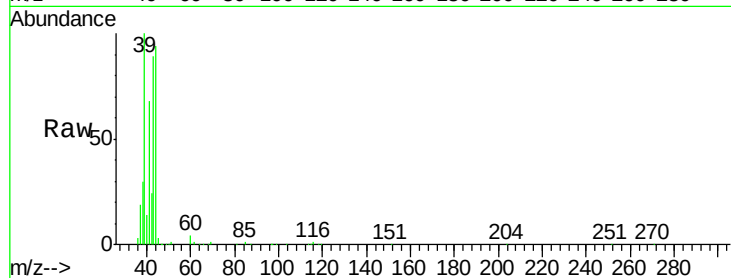
Ion Ratio Lower Upper

41 100

42 65.8 55.0 82.4

Manual Integrations
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#11

Trichlorofluoromethane

Concen: 2.148 ppbv

RT: 4.11 min Scan# 941

Delta R.T. 0.00 min

Lab File: VL031865.D

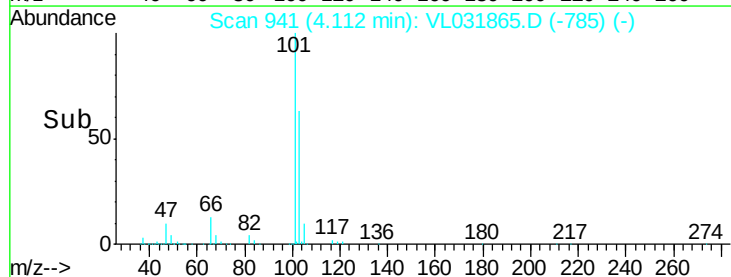
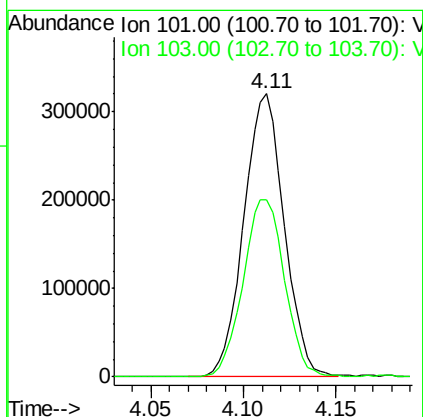
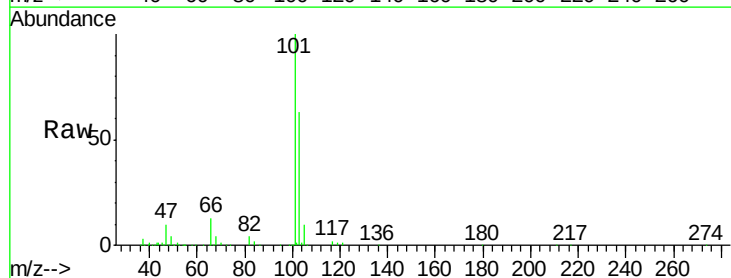
Acq: 12 Apr 2018 13:40

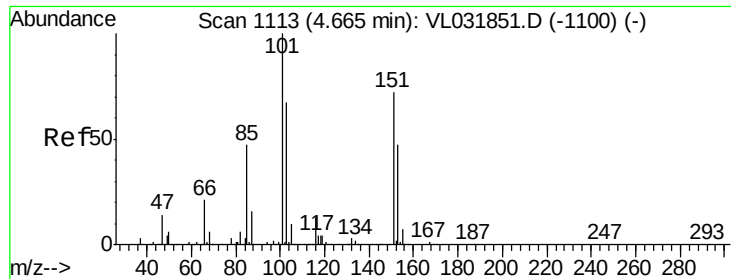
Tgt Ion: 101 Resp: 484612

Ion Ratio Lower Upper

101 100

103 62.7 51.8 77.8





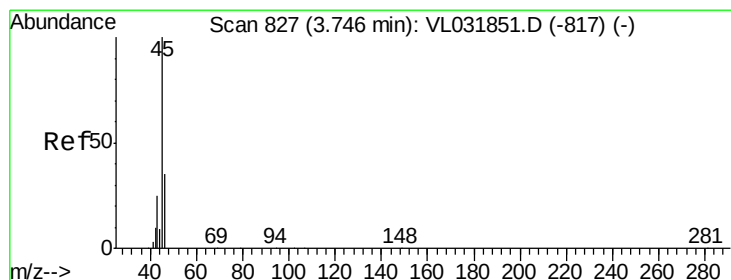
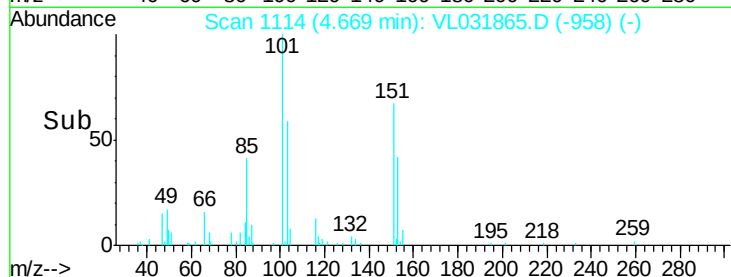
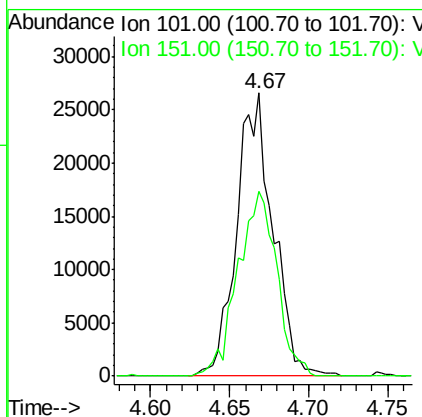
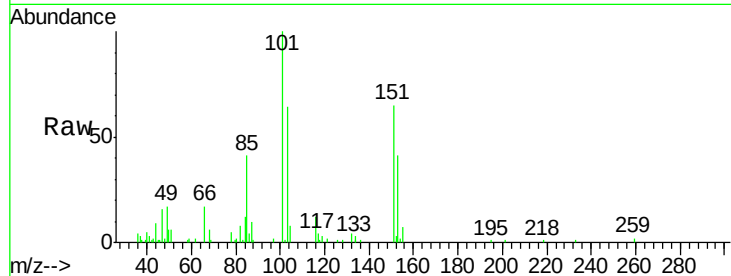
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.287 ppbv m
 RT: 4.67 min Scan# 1114
 Delta R.T. 0.00 min
 Lab File: VL031865.D
 Acq: 12 Apr 2018 13:40

Instrument :
 MSVOA_L
 ClientSampleId :
 GAC-EFF-DUP-040218

Tot Ion: 101 Resp: 42081
 Ion Ratio Lower Upper
 101 100
 151 0.0 57.0 85.6#

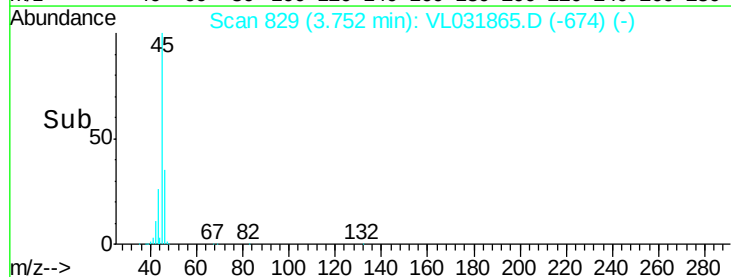
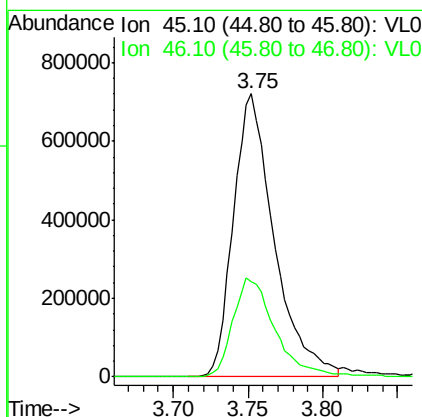
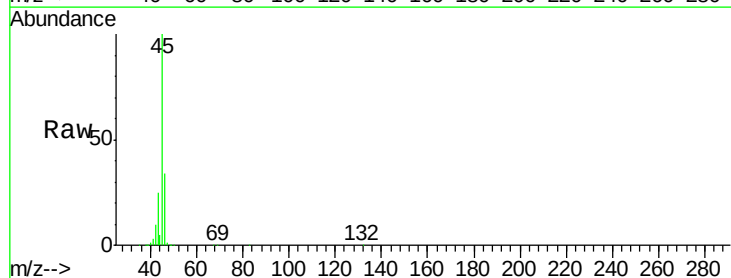
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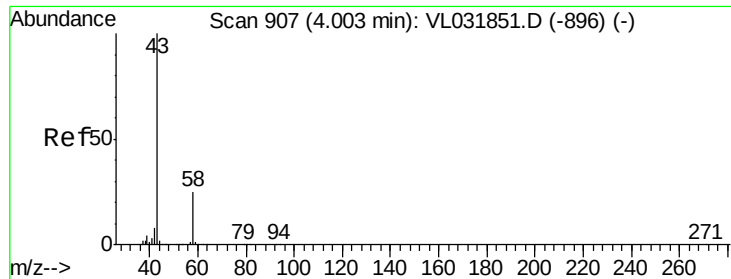
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#13
 Ethanol
 Concen: 89.876 ppbv
 RT: 3.75 min Scan# 829
 Delta R.T. -0.00 min
 Lab File: VL031865.D
 Acq: 12 Apr 2018 13:40

Tgt Ion: 45 Resp: 1368683
 Ion Ratio Lower Upper
 45 100
 46 36.9 14.6 58.6





#15

Acetone

Concen: 3.543 ppbv

RT: 4.01 min Scan# 909

Delta R.T. 0.01 min

Lab File: VL031865.D

Acq: 12 Apr 2018 13:40

Instrument :

MSVOA_L

ClientSampleId :

GAC-EFF-DUP-040218

Tot Ion: 43 Resp: 608385

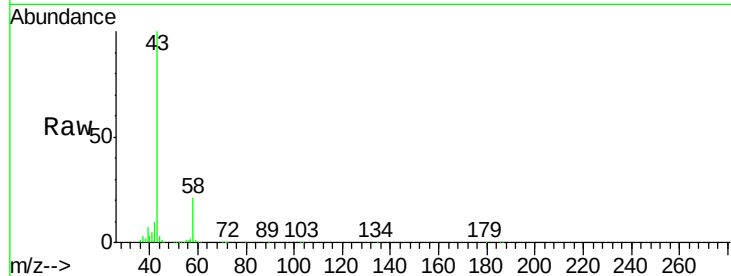
Ion Ratio Lower Upper

43 100

58 19.1 20.9 31.3#

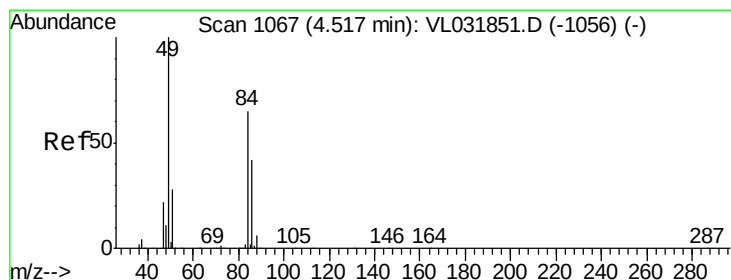
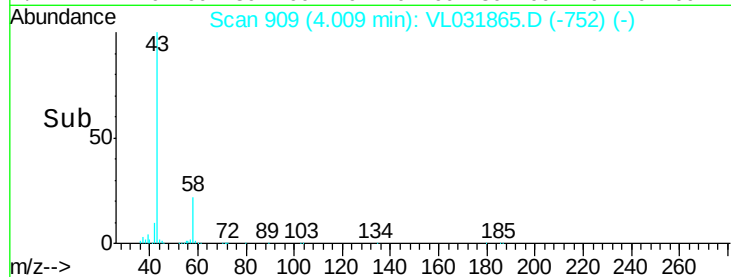
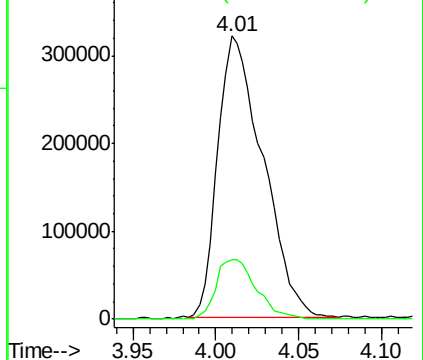
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 34.684 ppbv

RT: 4.52 min Scan# 1068

Delta R.T. -0.00 min

Lab File: VL031865.D

Acq: 12 Apr 2018 13:40

Tgt Ion: 84 Resp: 2169335

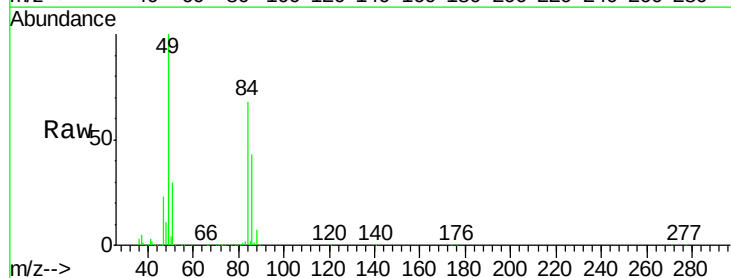
Ion Ratio Lower Upper

84 100

49 147.2 125.6 188.4

51 44.7 36.4 54.6

86 63.9 53.7 80.5

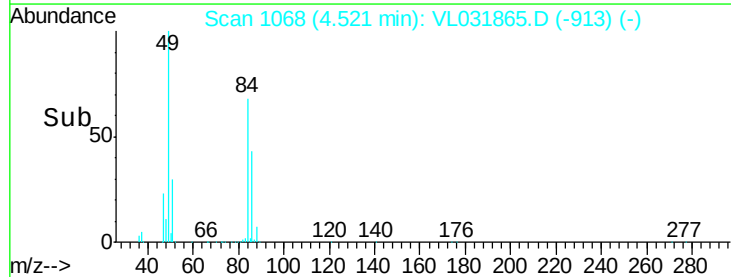
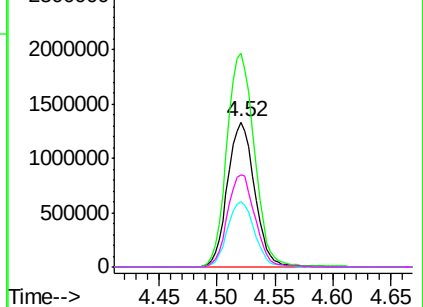


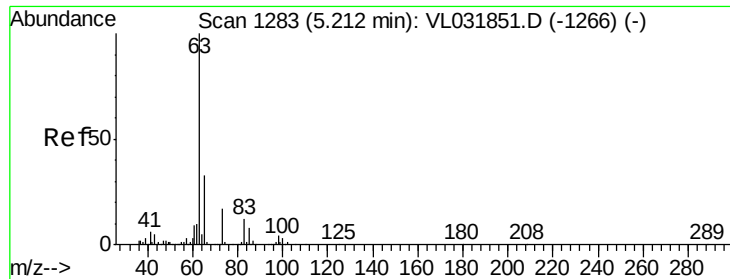
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





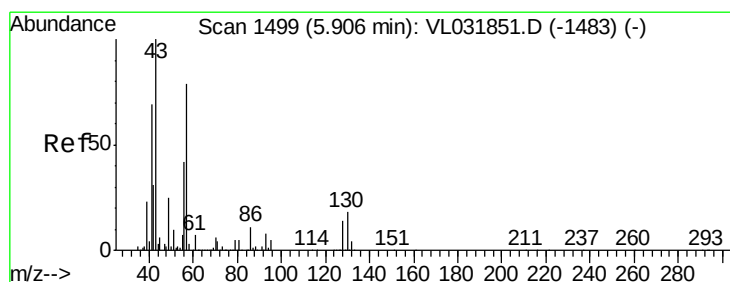
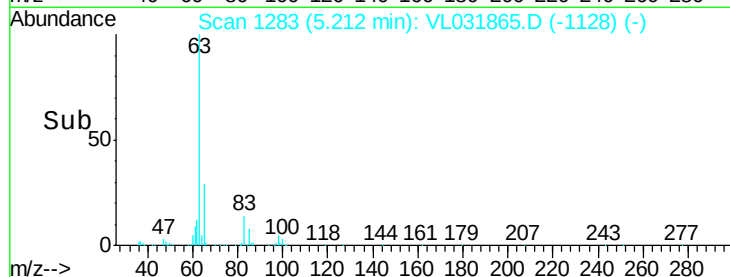
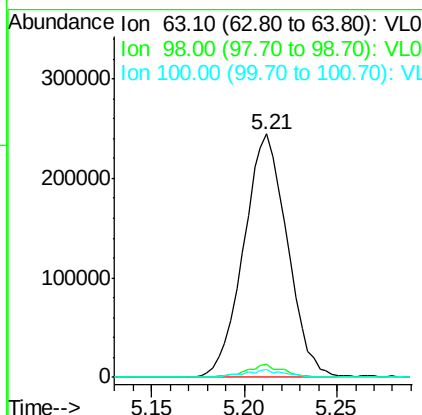
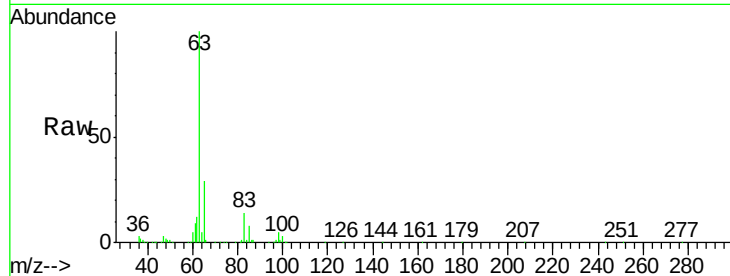
#24
 1,1-Dichloroethane
 Concen: 2.305 ppbv
 RT: 5.21 min Scan# 1283
 Delta R.T. -0.00 min
 Lab File: VL031865.D
 Acq: 12 Apr 2018 13:40

Instrument :
 MSVOA_L
 ClientSampleId :
 GAC-EFF-DUP-040218

Tot Ion	Ratio	Resp	Lower	Upper
63	100	399861		
98	5.3	2.4	7.2	
100	3.1	1.5	4.4	

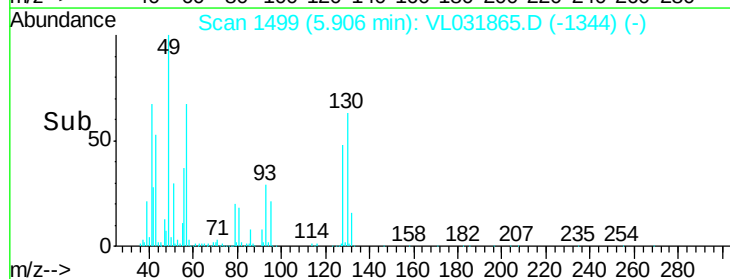
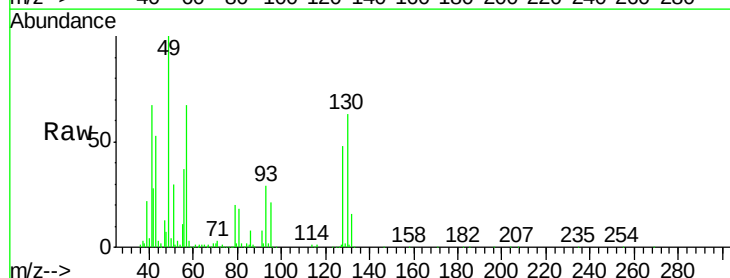
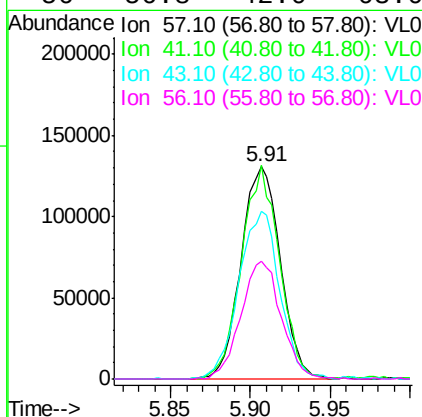
Manual Integrations
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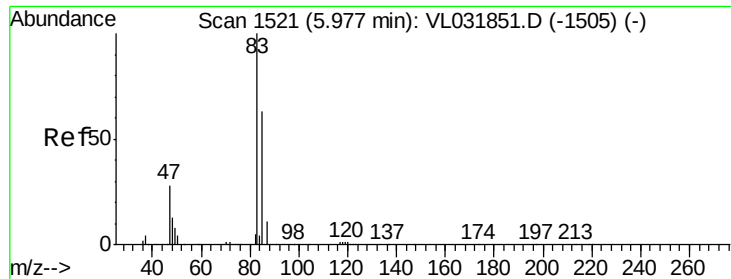
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#26
 Hexane
 Concen: 1.752 ppbv
 RT: 5.91 min Scan# 1499
 Delta R.T. -0.00 min
 Lab File: VL031865.D
 Acq: 12 Apr 2018 13:40

Tgt Ion	Ratio	Resp	Lower	Upper
57	100	218840		
41	97.7	72.0	108.0	
43	83.1	169.8	254.8#	
56	56.8	42.0	63.0	





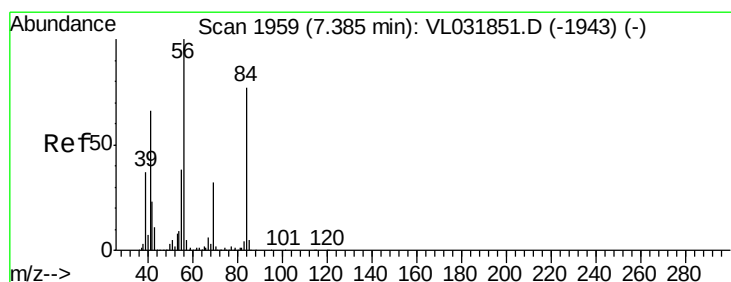
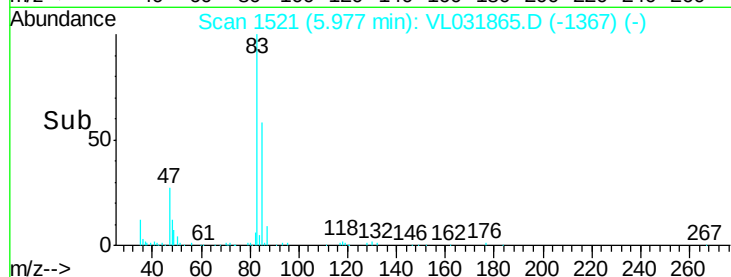
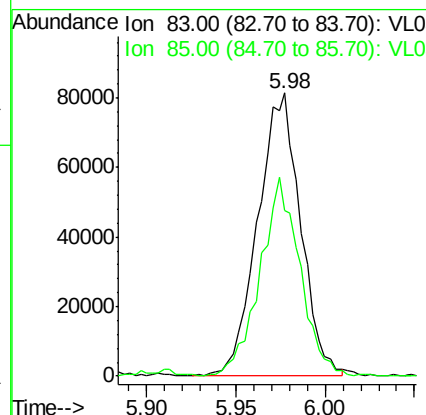
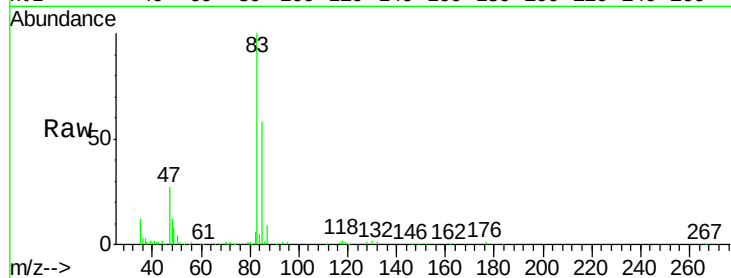
#29
Chloroform
Concen: 0.646 ppbv
RT: 5.98 min Scan# 1521
Delta R.T. -0.00 min
Lab File: VL031865.D
Acq: 12 Apr 2018 13:40

Instrument :
MSVOA_L
ClientSampleId :
GAC-EFF-DUP-040218

Tot Ion	83	Resp	136759
Ion Ratio	100	Lower	Upper
83	100		
85	57.6	51.4	77.0

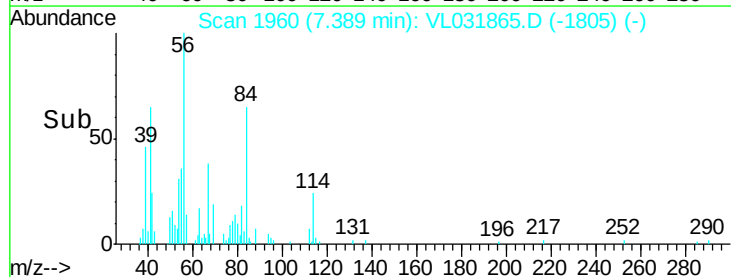
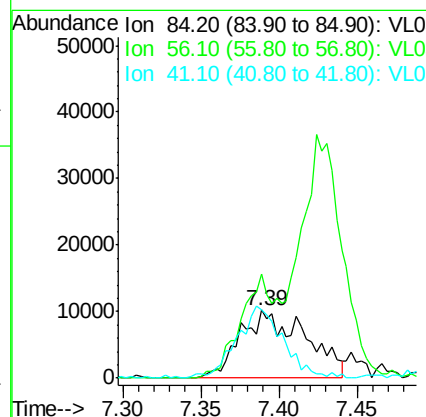
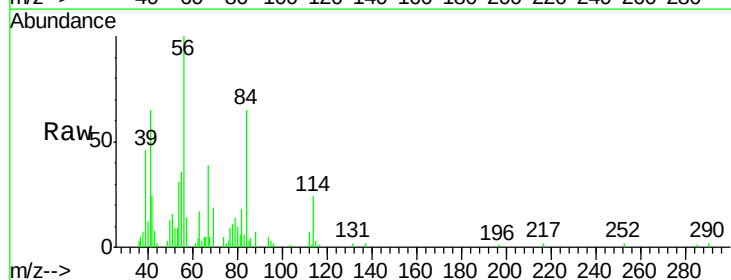
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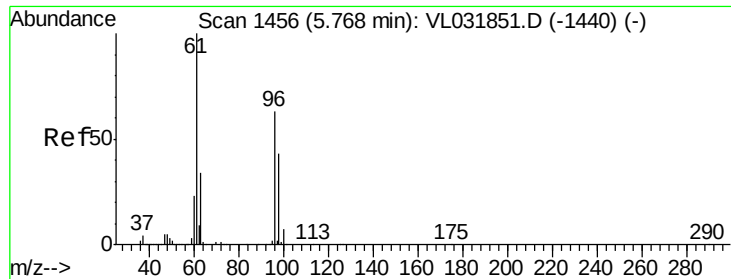
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#30
Cyclohexane
Concen: 0.330 ppbv m
RT: 7.39 min Scan# 1960
Delta R.T. -0.00 min
Lab File: VL031865.D
Acq: 12 Apr 2018 13:40

Tgt Ion	84	Resp	29466
Ion Ratio	100	Lower	Upper
84	100		
56	0.0	107.7	161.5#
41	76.5	68.2	102.2





#31

cis-1,2-Dichloroethene

Concen: 1.906 ppbv

RT: 5.76 min Scan# 1455

Delta R.T. -0.00 min

Lab File: VL031865.D

Acq: 12 Apr 2018 13:40

Instrument :

MSVOA_L

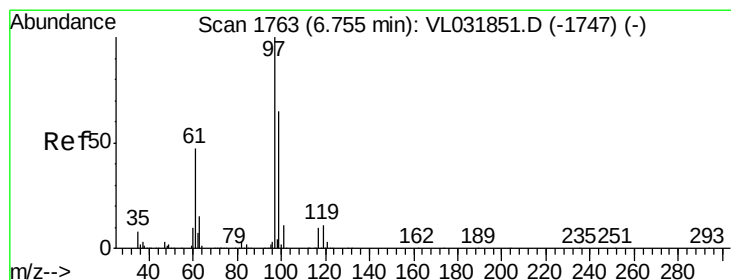
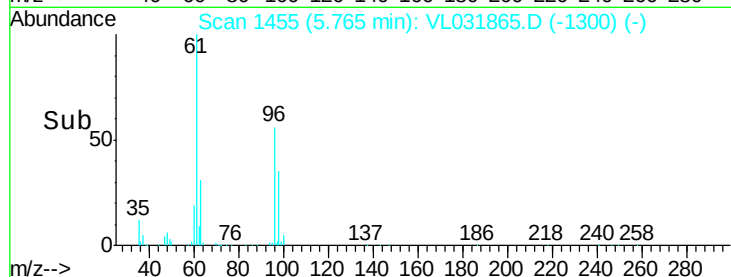
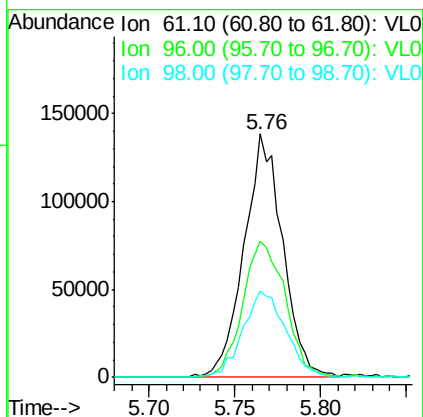
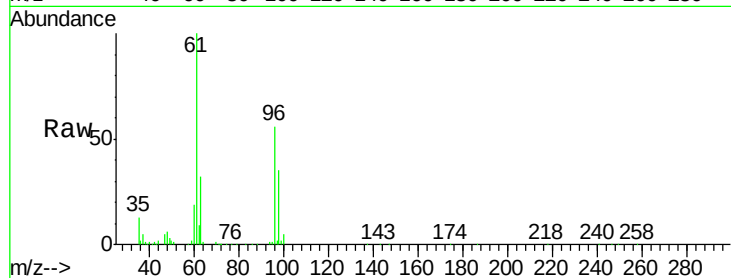
ClientSampleId :

GAC-EFF-DUP-040218

Tot Ion:	61	Resp:	215589
Ion Ratio	Lower	Upper	
61	100		
96	55.8	47.6	71.4
98	35.2	30.3	45.5

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#32

1,1,1-Trichloroethane

Concen: 4.146 ppbv

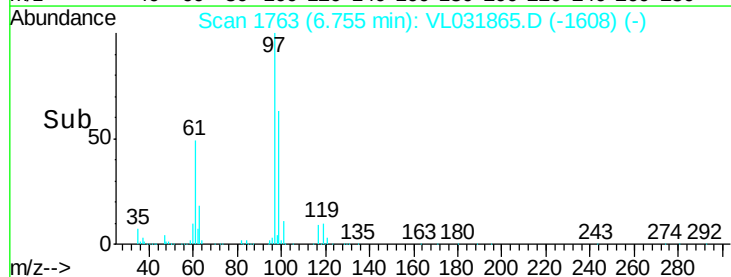
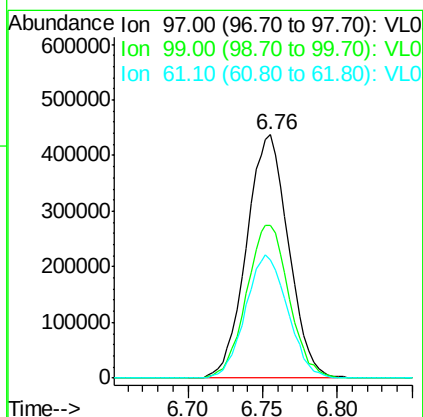
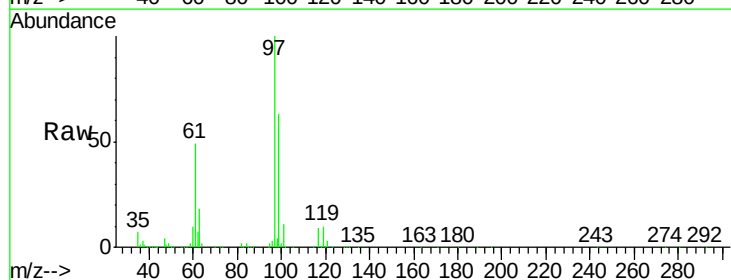
RT: 6.76 min Scan# 1763

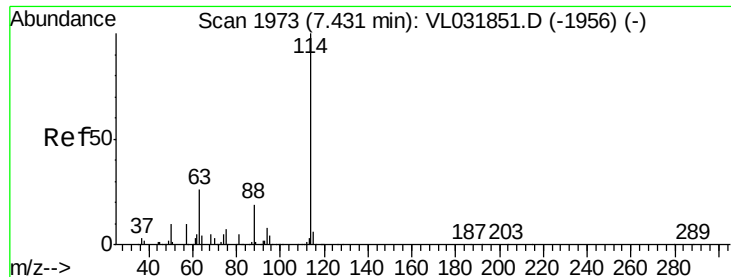
Delta R.T. -0.00 min

Lab File: VL031865.D

Acq: 12 Apr 2018 13:40

Tgt Ion:	97	Resp:	854738
Ion Ratio	Lower	Upper	
97	100		
99	63.6	51.5	77.3
61	51.0	40.0	60.0





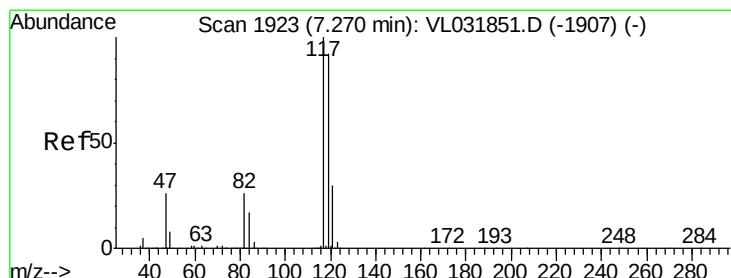
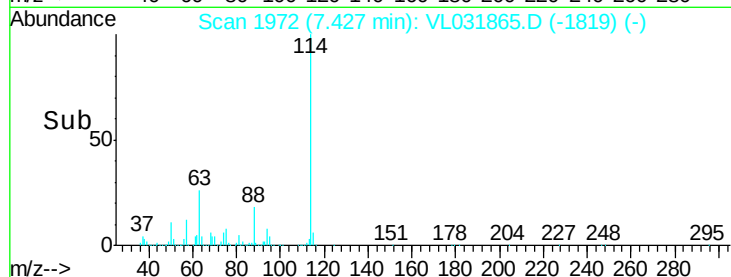
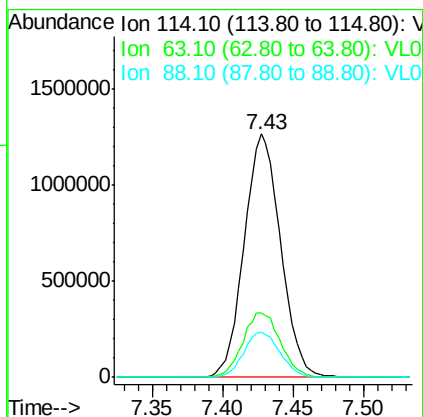
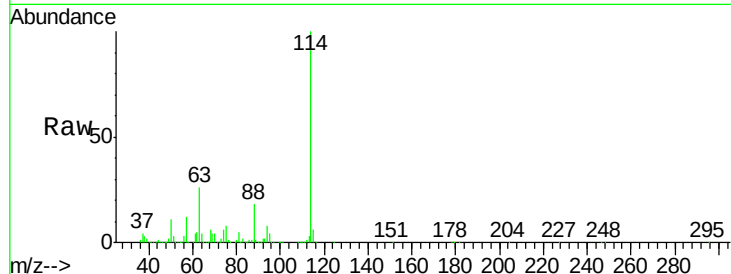
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.43 min Scan# 1972
 Delta R.T. -0.01 min
 Lab File: VL031865.D
 Acq: 12 Apr 2018 13:40

Instrument :
 MSVOA_L
 ClientSampleId :
 GAC-EFF-DUP-040218

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.6	21.8	32.6
88	18.6	14.6	22.0

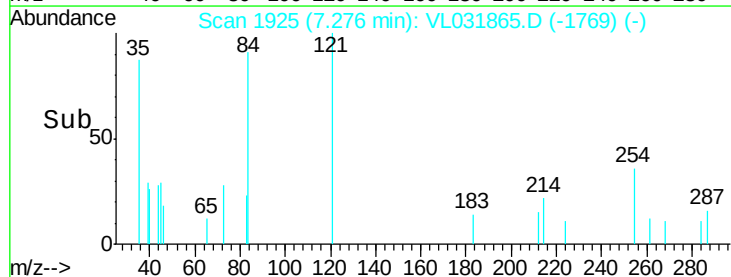
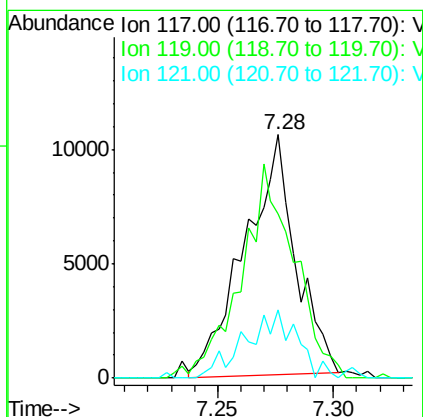
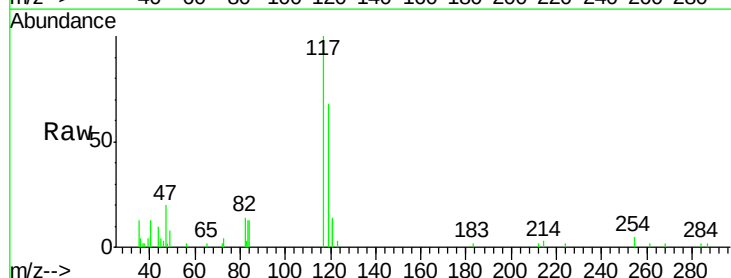
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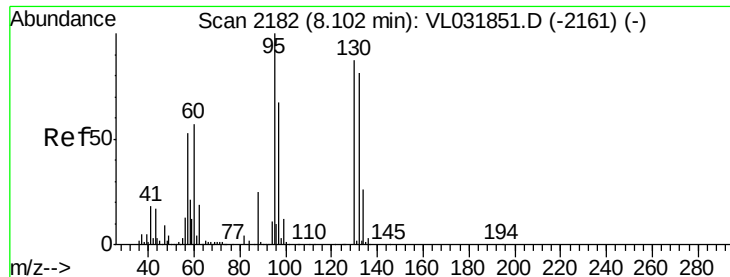
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#35
 Carbon Tetrachloride
 Concen: 0.081 ppbv
 RT: 7.28 min Scan# 1925
 Delta R.T. 0.00 min
 Lab File: VL031865.D
 Acq: 12 Apr 2018 13:40

Tgt Ion	Ratio	Lower	Upper
117	100		
119	67.4	76.9	115.3#
121	28.4	24.5	36.7





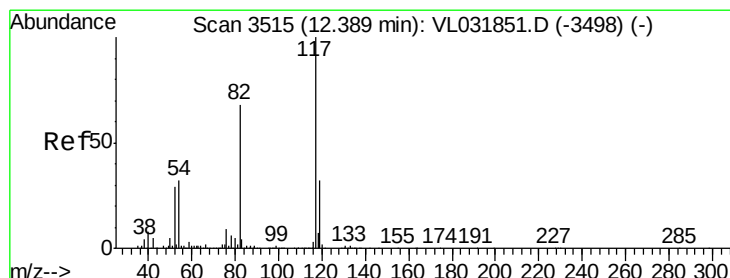
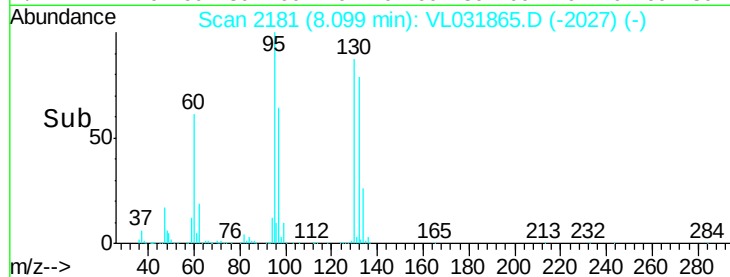
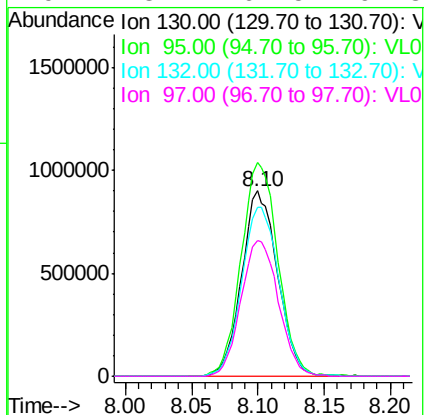
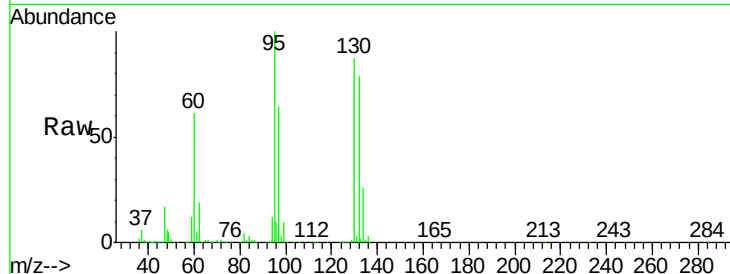
#38
 Trichloroethene
 Concen: 20.268 ppbv
 RT: 8.10 min Scan# 2181
 Delta R.T. -0.00 min
 Lab File: VL031865.D
 Acq: 12 Apr 2018 13:40

Instrument :
 MSVOA_L
 ClientSampleId :
 GAC-EFF-DUP-040218

Tot Ion	Ratio	Lower	Upper
130	100		
95	115.3	96.6	144.8
132	90.8	79.1	118.7
97	73.4	61.5	92.3

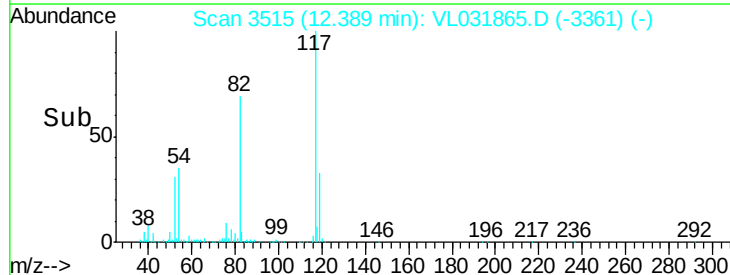
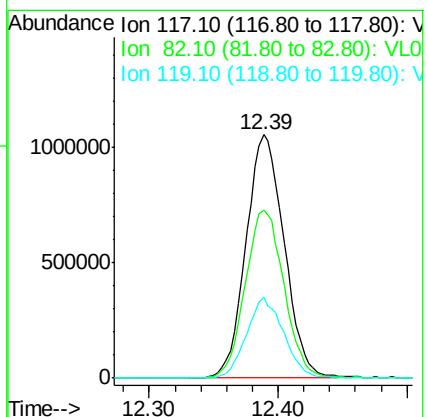
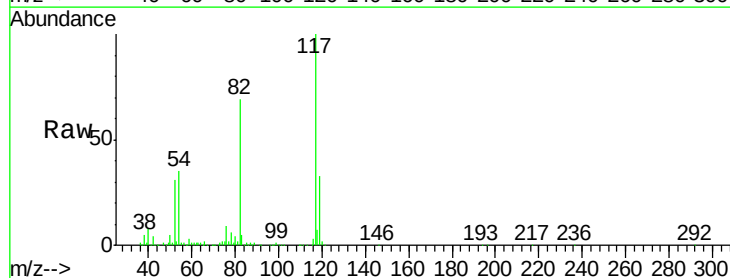
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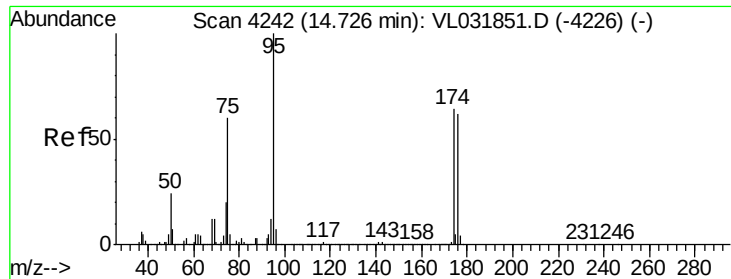
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#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.39 min Scan# 3515
 Delta R.T. -0.00 min
 Lab File: VL031865.D
 Acq: 12 Apr 2018 13:40

Tgt Ion	Ratio	Lower	Upper
117	100		
82	70.5	54.6	81.8
119	32.4	26.0	39.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.981 ppbv
 RT: 14.73 min Scan# 4243
 Delta R.T. -0.00 min
 Lab File: VL031865.D
 Acq: 12 Apr 2018 13:40

Instrument :
 MSVOA_L
 ClientSampleId :
 GAC-EFF-DUP-040218

Tot Ion: 95 Resp: 1748525
 Ion Ratio Lower Upper
 95 100
 174 65.4 52.3 78.5
 175 4.5 3.9 5.9

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