

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041218\
 Data File : VL031860.D
 Acq On : 12 Apr 2018 10:07
 Operator : SY/AP
 Sample : VL0412ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0412ABS01

Manual Integrations
 APPROVED

MMDadoda
 4/15/2018 3:06:34 PM

Quant Time: Apr 14 01:50:56 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	1391504	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2829564	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2982889m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.73	95	2346853	9.78	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.16	85	2043271	7.119 ppbv	99
3) Chlorodifluoromethane	3.10	51	1279769	7.907 ppbv	100
4) Chloromethane	3.26	50	626049	7.578 ppbv	95
5) Vinyl Chloride	3.38	62	675221	7.258 ppbv	99
6) Bromomethane	3.61	94	487355	7.971 ppbv	99
7) Chloroethane	3.70	64	282825	7.626 ppbv	95
8) Dichlorotetrafluoroethane	3.31	85	1786213	7.580 ppbv	99
9) Propene	3.12	41	471971	8.435 ppbv	99
10) Heptane	8.39	43	1612926	8.884 ppbv	100
11) Trichlorofluoromethane	4.11	101	2118800	7.530 ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.67	101	1549908	8.476 ppbv	99
13) Ethanol	3.75	45	139726	7.357 ppbv	98
14) Bromoethene	3.89	108	554066	8.036 ppbv	98
15) Acetone	4.01	43	1413249	6.599 ppbv	98
16) 1,3-Butadiene	3.46	39	633869	7.999 ppbv	94
17) tert-Butyl alcohol	4.47	59	840997	9.502 ppbv	100
18) 1,1-Dichloroethene	4.46	96	691560	8.804 ppbv	98
19) Isopropyl Alcohol	4.13	45	939436	7.853 ppbv	100
20) Methylene Chloride	4.52	84	662487	8.493 ppbv	93
21) Allyl Chloride	4.59	41	1119529	9.150 ppbv	100
22) trans-1,2-Dichloroethene	5.08	96	723691	8.888 ppbv	99
23) Vinyl Acetate	5.28	43	2001175	9.214 ppbv	99
24) 1,1-Dichloroethane	5.21	63	1797285	8.307 ppbv	99
25) Ethyl Acetate	5.89	43	3053151	9.140 ppbv	100
26) Hexane	5.90	57	1430309	9.184 ppbv	99
27) Carbon Disulfide	4.74	76	1933308	9.562 ppbv	99
28) Methyl tert-Butyl Ether	5.23	73	1741419	9.087 ppbv	100
29) Chloroform	5.98	83	2325167	8.808 ppbv	99
30) Cyclohexane	7.38	84	992801	8.927 ppbv	99
31) cis-1,2-Dichloroethene	5.77	61	1357038	9.619 ppbv	97
32) 1,1,1-Trichloroethane	6.76	97	2272540	8.839 ppbv	100
34) 2-Butanone	5.45	43	1849990	9.425 ppbv	100
35) Carbon Tetrachloride	7.27	117	2146898	8.736 ppbv	98
36) Benzene	7.14	78	2398980	9.426 ppbv	98
37) 1,2-Dichloroethane	6.55	62	1935453	10.221 ppbv	100
38) Trichloroethene	8.10	130	976274	9.450 ppbv	97
39) 1,2-Dichloropropane	7.88	63	850781	8.992 ppbv	100
40) 1,4-Dioxane	8.09	88	392040	10.209 ppbv	# 1
41) Tetrahydrofuran	6.28	42	962883	10.598 ppbv	100
42) Bromodichloromethane	8.06	83	2151554	9.496 ppbv	99
43) Methyl Methacrylate	8.28	69	927274	10.354 ppbv	99

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 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
 VL0412ABS01

Manual Integrations
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MMDadoda
 4/15/2018 3:06:34 PM

Quant Time: Apr 14 01:50:56 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)
44) 2,2,4-Trimethylpentane	8.13	57	4111389	9.380	ppbv	99
45) t-1,3-Dichloropropene	9.56	75	1351359	11.634	ppbv	100
46) cis-1,3-Dichloropropene	8.98	75	1640640	11.051	ppbv	98
47) 1,1,2-Trichloroethane	9.76	97	1040048	9.249	ppbv	98
48) Dibromochloromethane	10.60	129	1780260	9.797	ppbv	99
49) Bromoform	13.35	173	1372109	9.807	ppbv	100
50) 4-Methyl-2-Pentanone	9.02	43	2226345	9.910	ppbv	100
51) 2-Hexanone	10.41	43	2102733	10.708	ppbv	99
52) Tetrachloroethene	11.52	164	926025	9.339	ppbv	97
53) Toluene	10.10	91	2937579	10.350	ppbv	100
54) 1,2-Dibromoethane	10.91	107	1577867	9.667	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.43	131	1220712	8.696	ppbv	100
57) Chlorobenzene	12.45	112	2255606	8.919	ppbv	97
58) Ethyl Benzene	13.02	91	4098289	9.893	ppbv	100
59) m/p-Xylene	13.30	91	6790082m	18.878	ppbv	
60) o-Xylene	14.00	91	3429525	9.539	ppbv	100
61) Styrene	13.84	104	799691	11.681	ppbv	100
62) Isopropylbenzene	14.98	105	4242179	9.187	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.99	83	2206390	7.982	ppbv	99
64) n-propylbenzene	15.87	120	1061684	9.457	ppbv	100
65) tert-Butylbenzene	17.06	119	3555261	8.951	ppbv	100
66) Benzyl Chloride	17.31	91	347715	9.716	ppbv	100
67) sec-Butylbenzene	17.61	105	5002240	8.742	ppbv	100
69) p-Isopropyltoluene	17.96	119	3898405	8.789	ppbv	100
70) n-Butylbenzene	18.86	91	3898026	8.440	ppbv	100
71) 2-Chlorotoluene	15.77	91	3179947	9.524	ppbv	100
72) 4-Ethyltoluene	16.15	105	3518415	9.576	ppbv	100
73) 1,3,5-Trimethylbenzene	16.31	105	3097936	9.211	ppbv	100
74) 1,2,4-Trimethylbenzene	17.08	105	3220775	8.578	ppbv	96
75) 1,3-Dichlorobenzene	17.32	146	1942197	8.435	ppbv	100
76) 1,4-Dichlorobenzene	17.46	146	1959889	8.774	ppbv	99
77) 1,2-Dichlorobenzene	18.14	146	1846382	8.144	ppbv	100
78) Hexachloro-1,3-Butadiene	23.69	225	995944	11.439	ppbv	98
79) Naphthalene	22.59	128	2125757	10.059	ppbv	98
80) Naphthalene, 2-methyl-	25.23	142	641803	15.558	ppbv	98
81) 1,2,4-Trichlorobenzene	22.32	180	1050217	8.957	ppbv	100

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

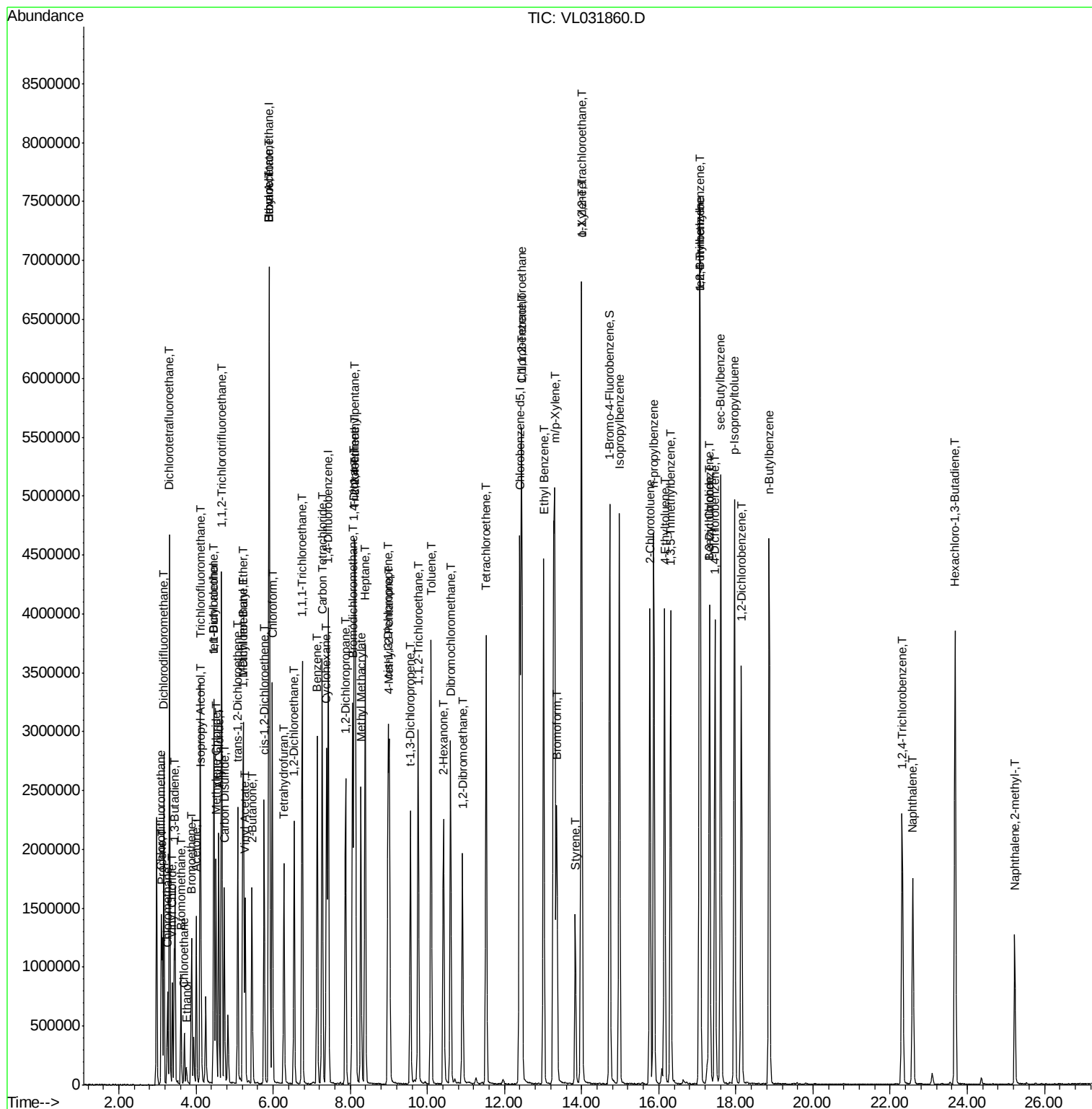
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Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041218\  
Data File : VL031860.D  
Acq On    : 12 Apr 2018  10:07  
Operator  : SY/AP  
Sample    : VL0412ABS01  
Misc      : 400ml/MSVOA L  
ALS Vial  : 1      Sample Multiplier: 1
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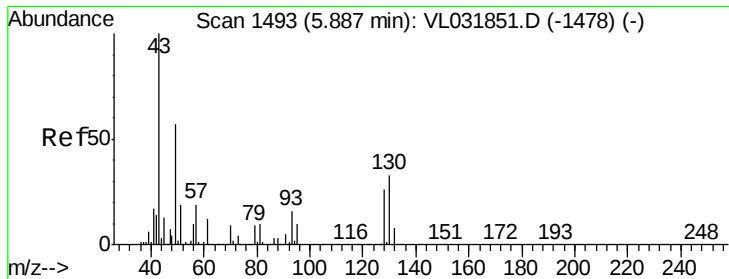
Instrument :
MSVOA_L
ClientSampleId :
VL0412ABS01

Manual Integrations APPROVED

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4/15/2018 3:06:34 PM

Quant Time: Apr 14 01:50:56 2018
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri 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: VL031860.D

Acq: 12 Apr 2018 10:07

Instrument :

MSVOA_L

ClientSampleId :

VL0412ABS01

Tot Ion: 49 Resp: 1391504

Ion Ratio Lower Upper

49 100

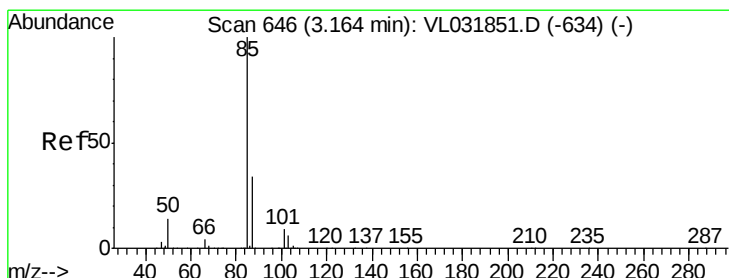
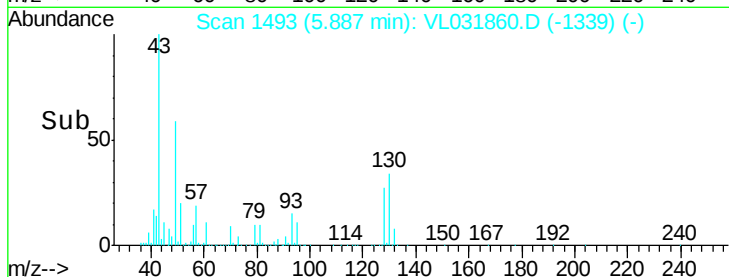
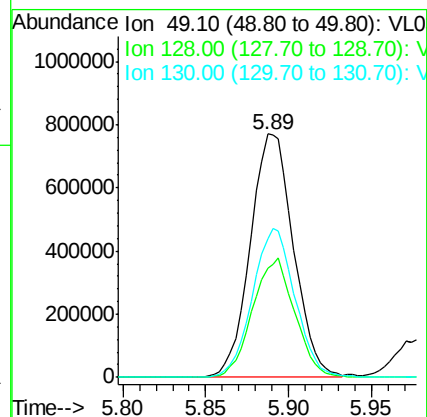
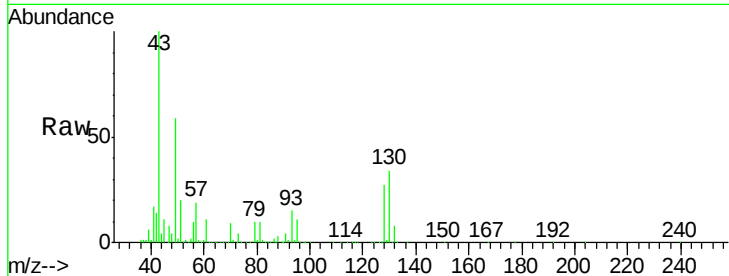
128 48.3 23.9 71.7

130 60.9 30.9 92.7

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 7.119 ppbv

RT: 3.16 min Scan# 646

Delta R.T. -0.00 min

Lab File: VL031860.D

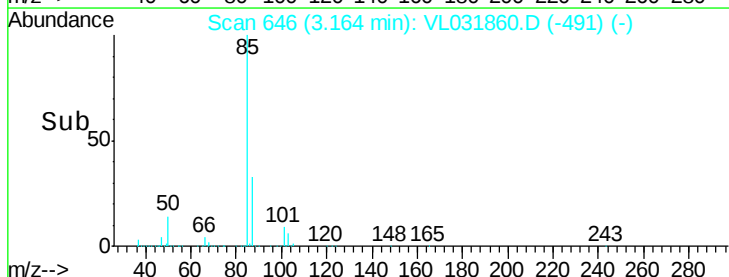
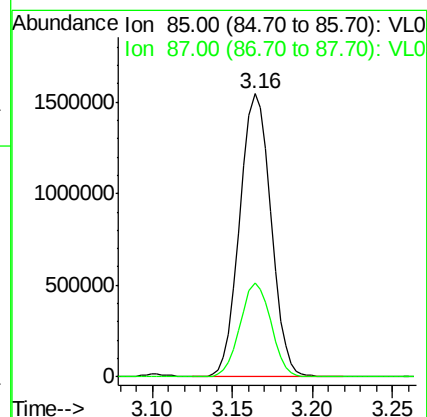
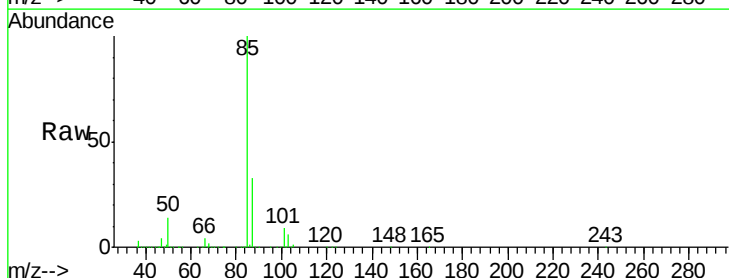
Acq: 12 Apr 2018 10:07

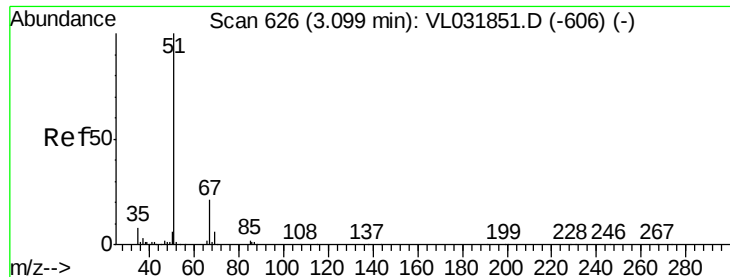
Tgt Ion: 85 Resp: 2043271

Ion Ratio Lower Upper

85 100

87 33.2 25.9 38.9





#3

Chlorodifluoromethane

Concen: 7.907 ppbv

RT: 3.10 min Scan# 626

Delta R.T. -0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

Tot Ion: 51 Resp: 1279769

Ion Ratio Lower Upper

51 100

67 21.9 17.5 26.3

Instrument :

MSVOA_L

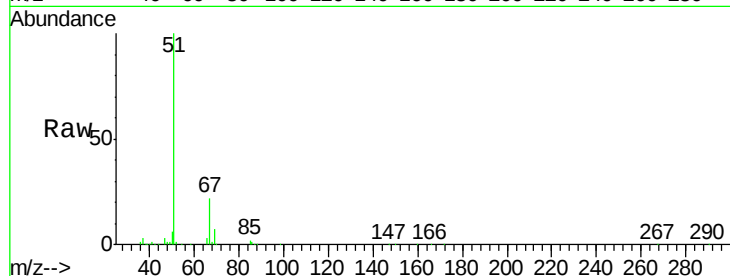
ClientSampleId :

VL0412ABS01

Manual Integrations
APPROVED

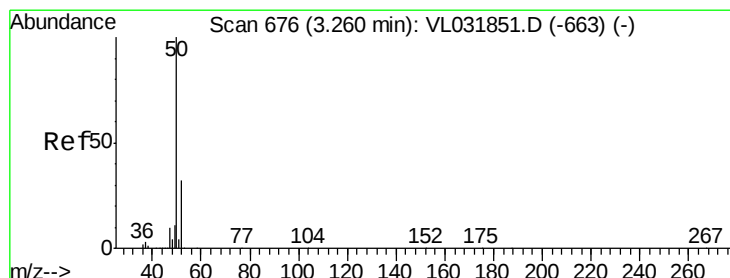
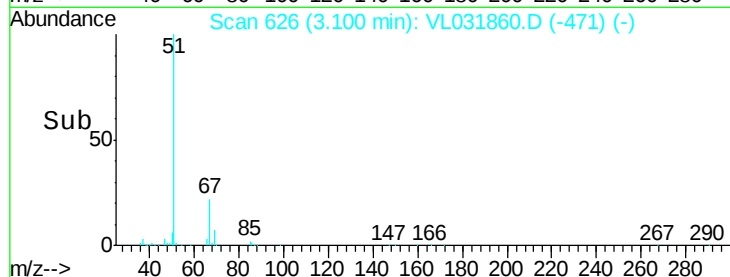
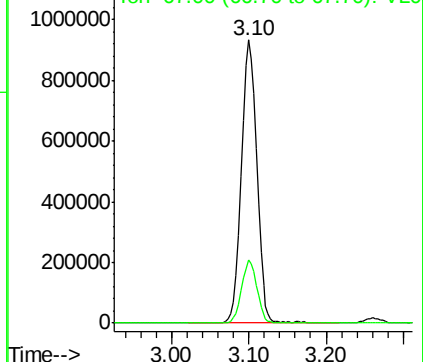
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 7.578 ppbv

RT: 3.26 min Scan# 676

Delta R.T. -0.00 min

Lab File: VL031860.D

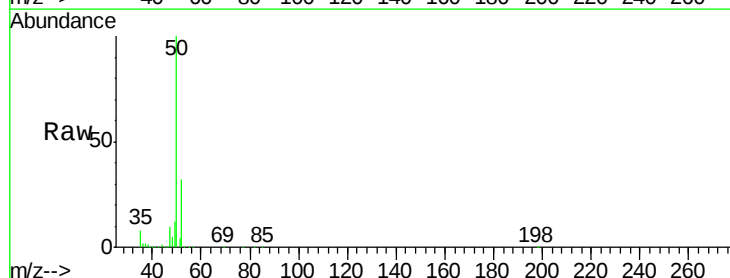
Acq: 12 Apr 2018 10:07

Tgt Ion: 50 Resp: 626049

Ion Ratio Lower Upper

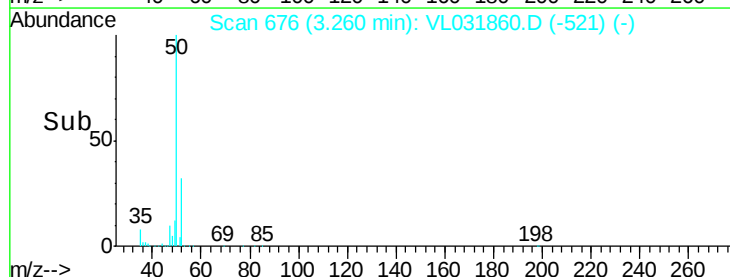
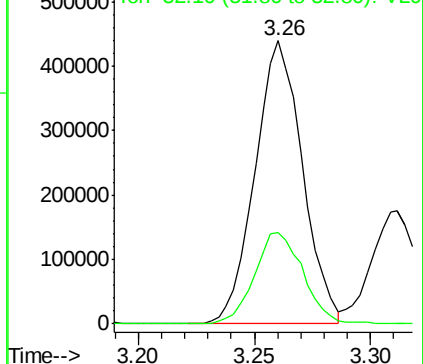
50 100

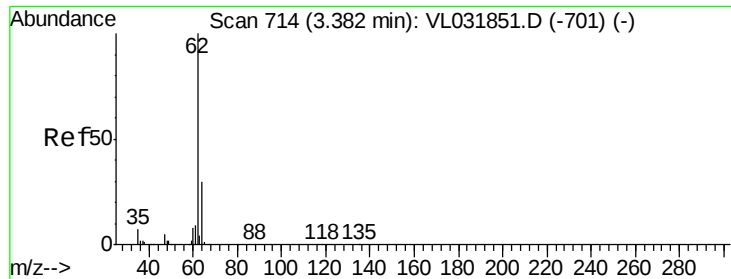
52 32.3 28.1 42.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 7.258 ppbv

RT: 3.38 min Scan# 714

Delta R.T. -0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

Instrument :

MSVOA_L

ClientSampleID :

VL0412ABS01

Tot Ion: 62 Resp: 675221

Ion Ratio Lower Upper

62 100

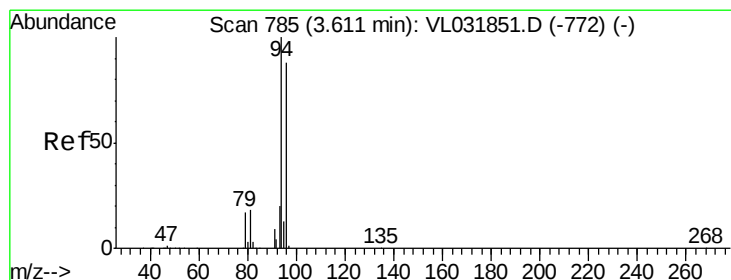
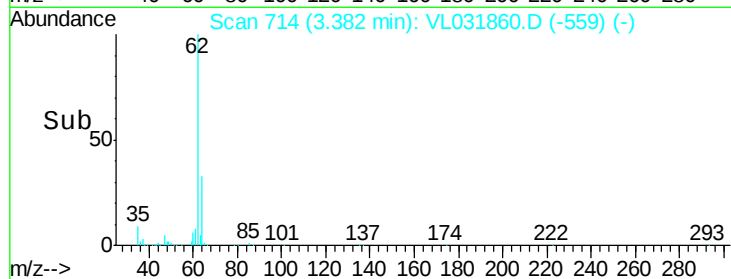
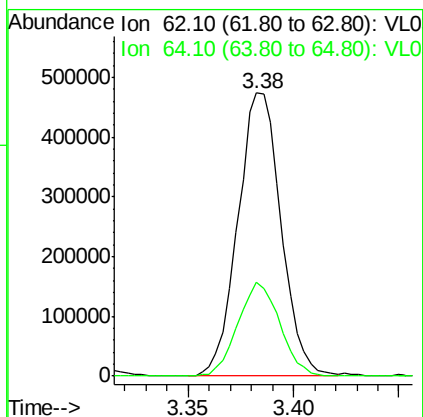
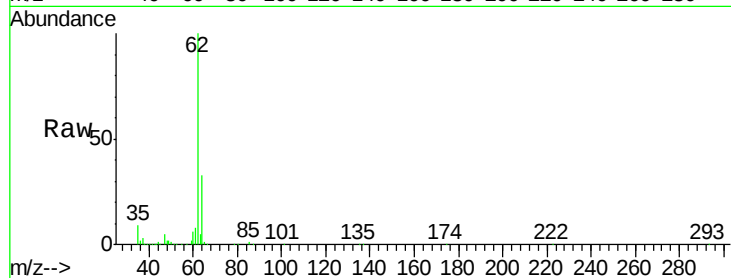
64 33.1 25.9 38.9

Manual Integrations

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#6

Bromomethane

Concen: 7.971 ppbv

RT: 3.61 min Scan# 785

Delta R.T. -0.00 min

Lab File: VL031860.D

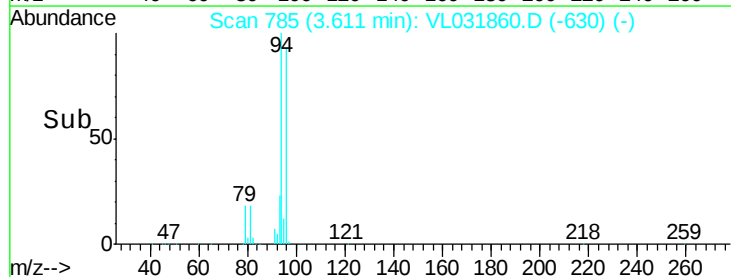
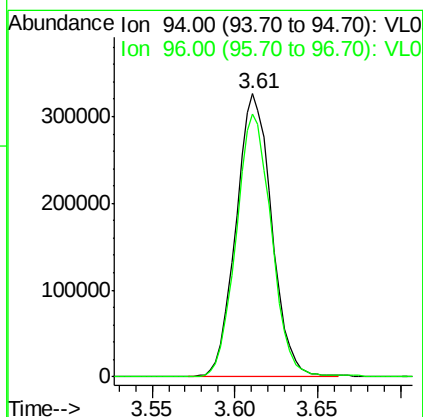
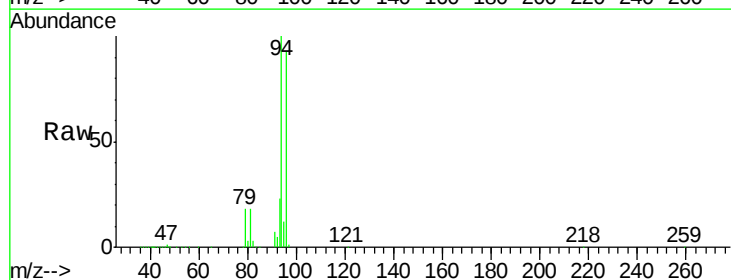
Acq: 12 Apr 2018 10:07

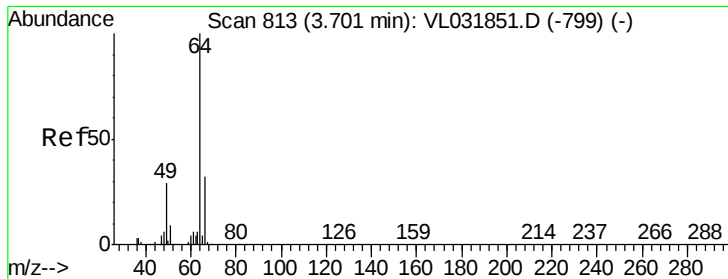
Tgt Ion: 94 Resp: 487355

Ion Ratio Lower Upper

94 100

96 92.8 73.8 110.6





#7

Chloroethane

Concen: 7.626 ppbv

RT: 3.70 min Scan# 812

Delta R.T. -0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

Instrument :

MSVOA_L

ClientSampleId :

VL0412ABS01

Tot Ion: 64 Resp: 282825

Ion Ratio Lower Upper

64 100

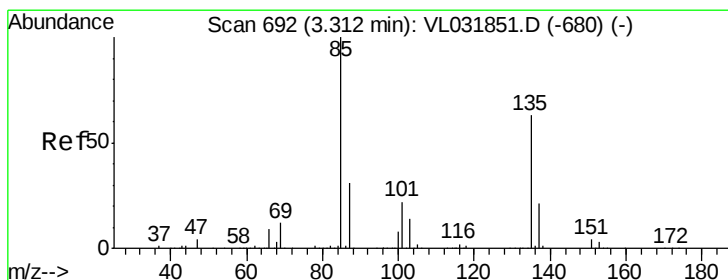
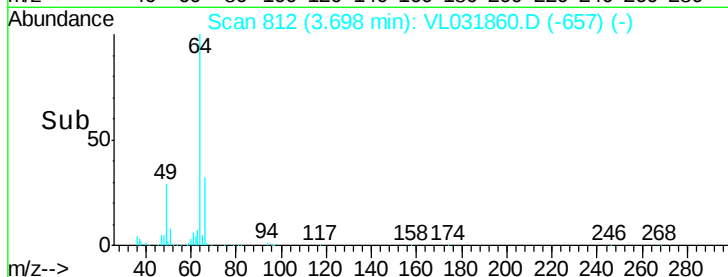
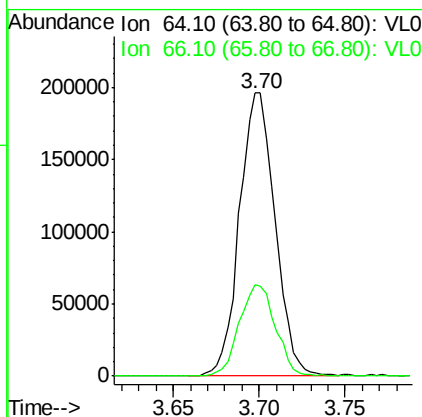
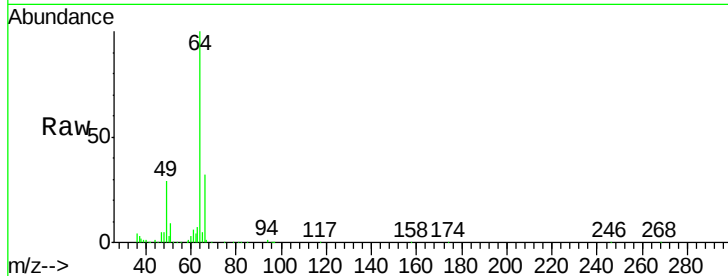
66 32.1 23.4 35.0

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 7.580 ppbv

RT: 3.31 min Scan# 692

Delta R.T. -0.00 min

Lab File: VL031860.D

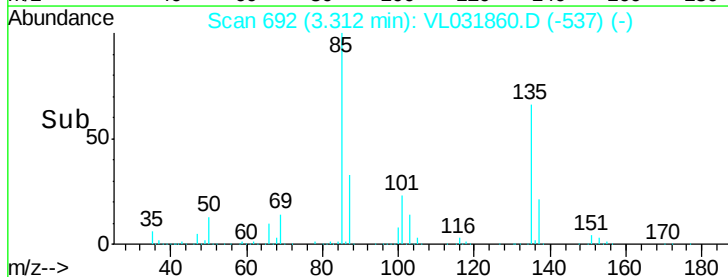
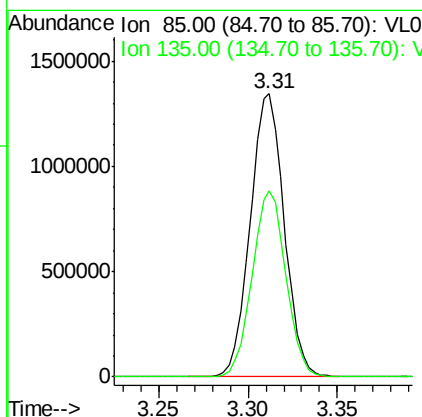
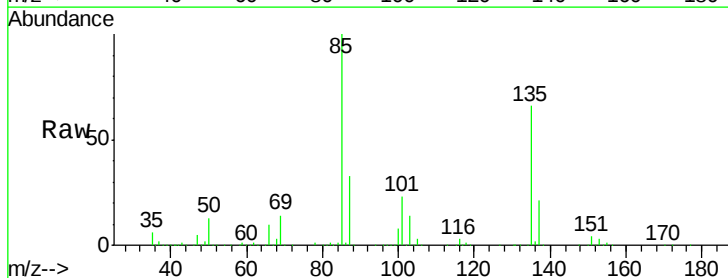
Acq: 12 Apr 2018 10:07

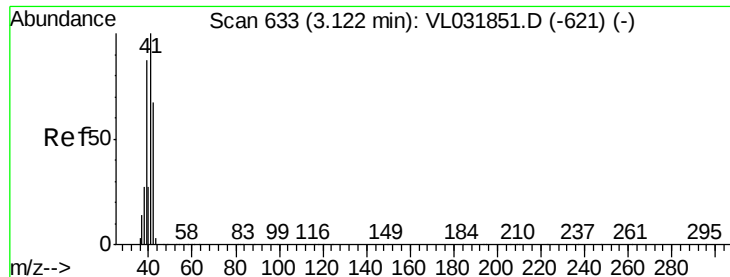
Tgt Ion: 85 Resp: 1786213

Ion Ratio Lower Upper

85 100

135 65.3 52.7 79.1





#9

Propene

Concen: 8.435 ppbv

RT: 3.12 min Scan# 633

Delta R.T. -0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

Instrument :

MSVOA_L

ClientSampleId :

VL0412ABS01

Tot Ion: 41 Resp: 471971

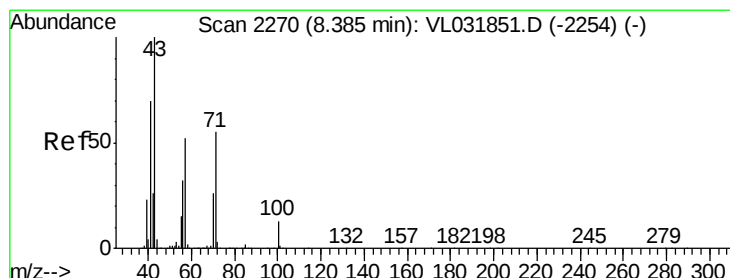
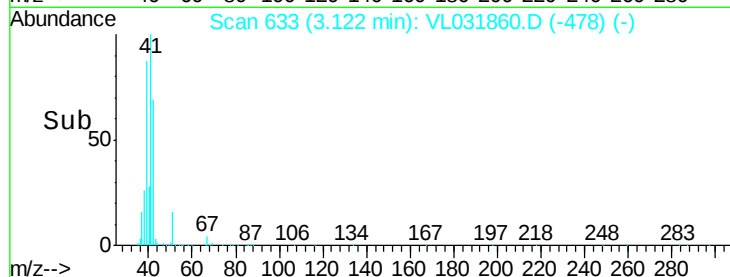
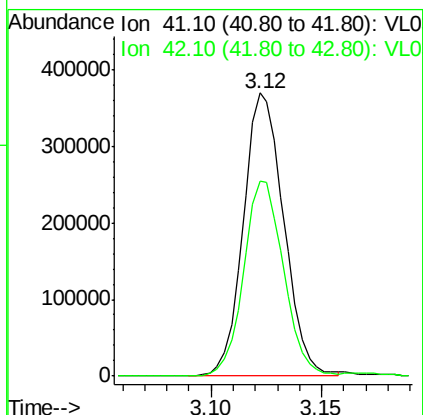
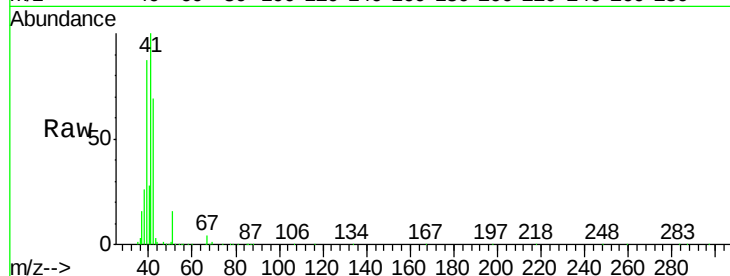
Ion Ratio Lower Upper

41 100

42 69.5 55.0 82.4

Manual Integrations
APPROVED

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4/15/2018 3:06:34 PM



#10

Heptane

Concen: 8.884 ppbv

RT: 8.39 min Scan# 2270

Delta R.T. -0.00 min

Lab File: VL031860.D

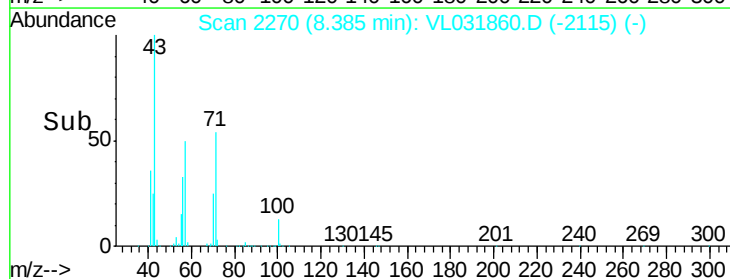
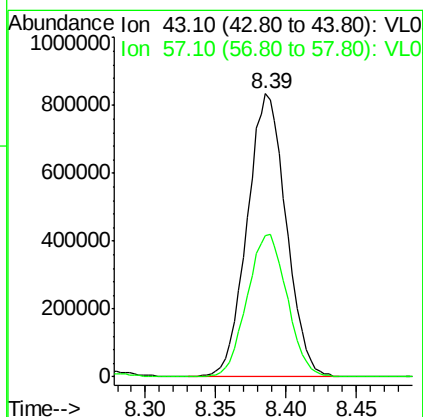
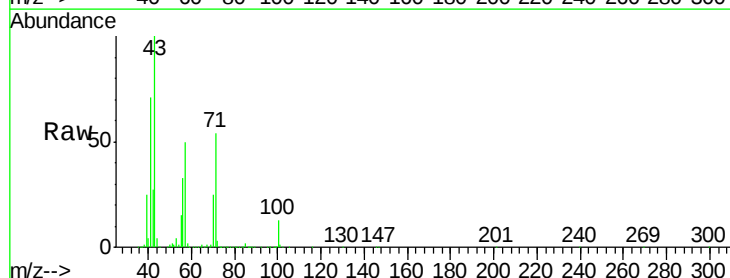
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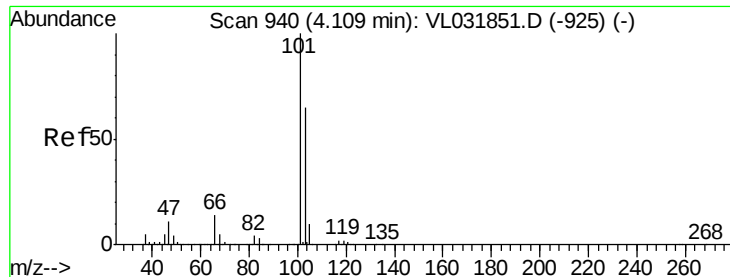
Tgt Ion: 43 Resp: 1612926

Ion Ratio Lower Upper

43 100

57 51.8 41.5 62.3





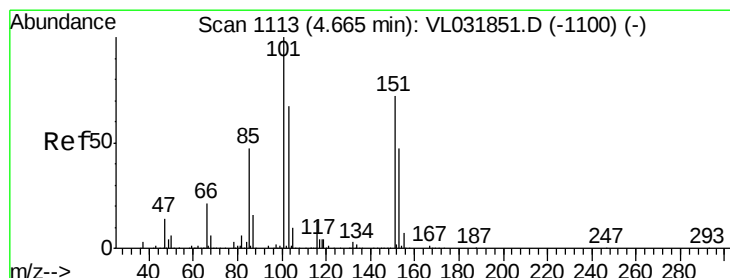
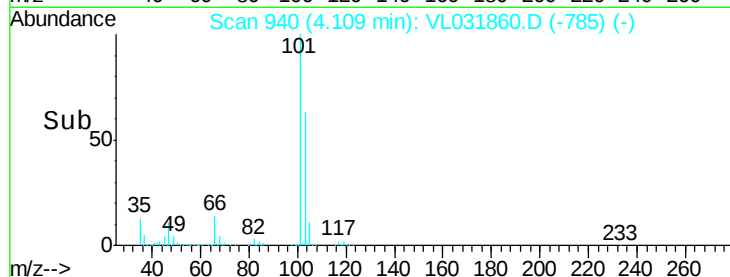
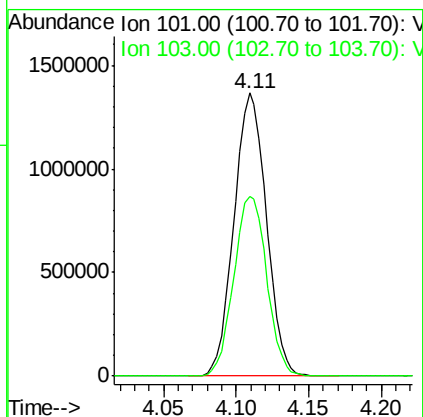
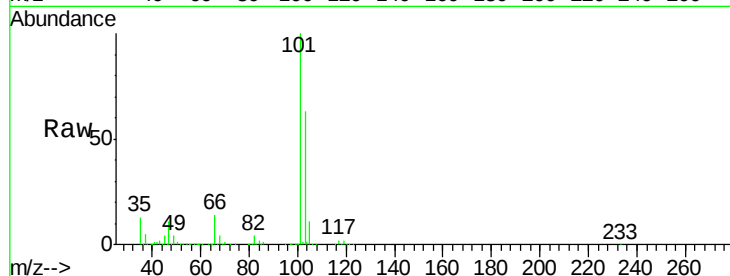
#11
 Trichlorofluoromethane
 Concen: 7.530 ppbv
 RT: 4.11 min Scan# 940
 Delta R.T. -0.00 min
 Lab File: VL031860.D
 Acq: 12 Apr 2018 10:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0412ABS01

Tot Ion:101 Resp: 2118800
 Ion Ratio Lower Upper
 101 100
 103 63.3 51.8 77.8

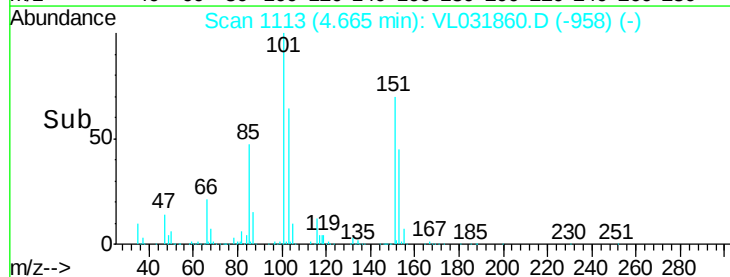
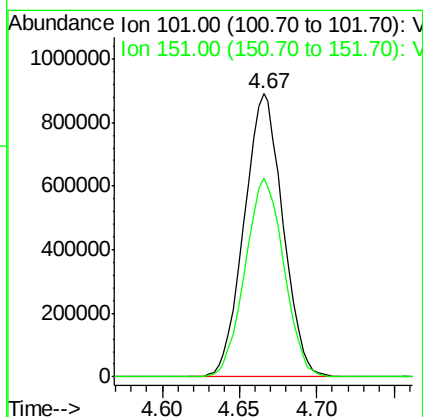
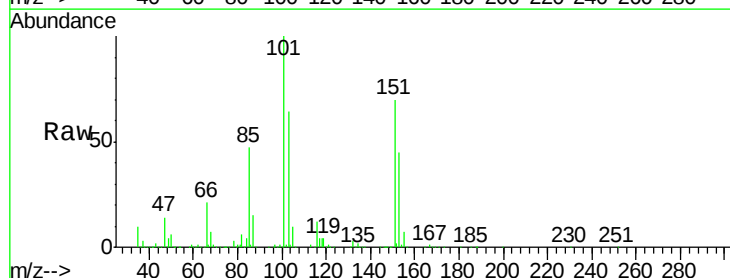
Manual Integrations
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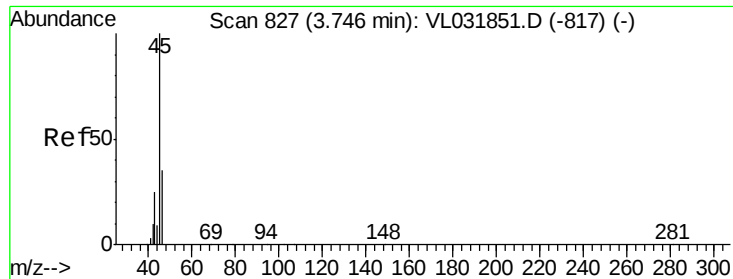
MMDadoda
 4/15/2018 3:06:34 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.476 ppbv
 RT: 4.67 min Scan# 1113
 Delta R.T. -0.00 min
 Lab File: VL031860.D
 Acq: 12 Apr 2018 10:07

Tgt Ion:101 Resp: 1549908
 Ion Ratio Lower Upper
 101 100
 151 70.5 57.0 85.6





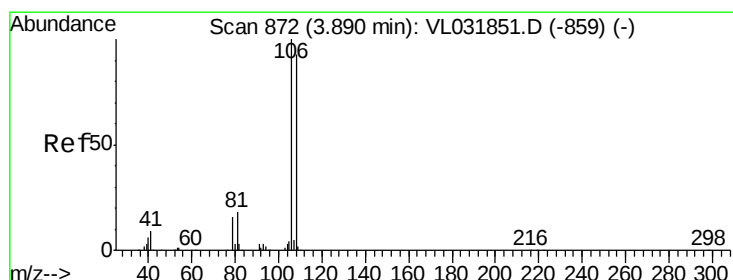
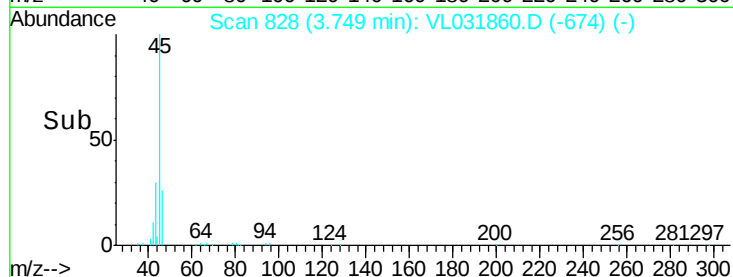
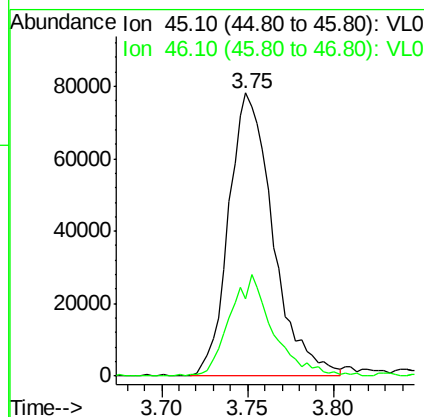
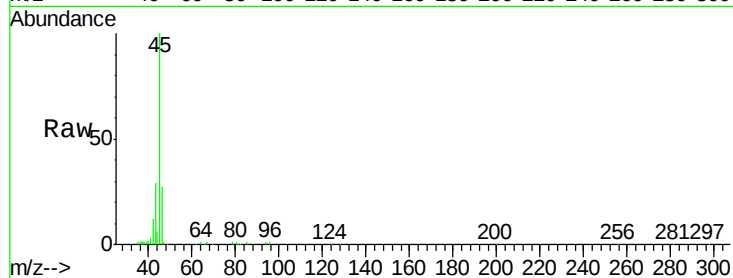
#13
Ethanol
Concen: 7.357 ppbv
RT: 3.75 min Scan# 828
Delta R.T. -0.00 min
Lab File: VL031860.D
Acq: 12 Apr 2018 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0412ABS01

Tot Ion	Ratio	Lower	Upper
45	100		
46	35.2	14.6	58.6

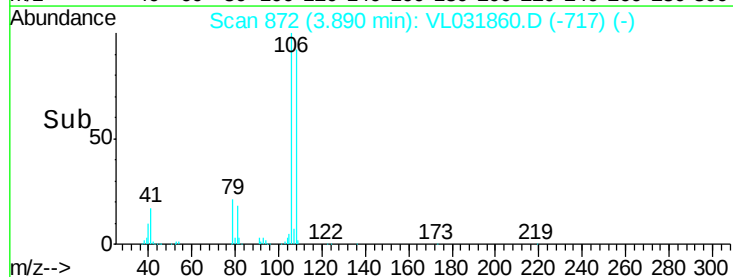
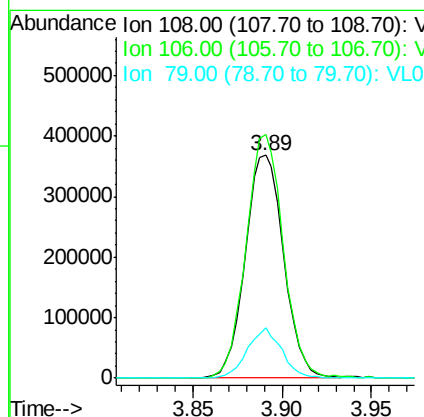
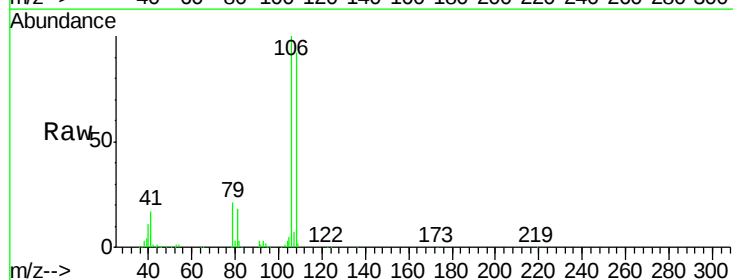
Manual Integrations
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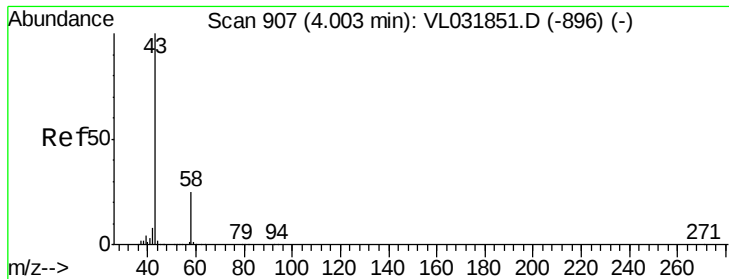
MMDadoda
4/15/2018 3:06:34 PM



#14
Bromoethene
Concen: 8.036 ppbv
RT: 3.89 min Scan# 872
Delta R.T. -0.00 min
Lab File: VL031860.D
Acq: 12 Apr 2018 10:07

Tgt Ion	Ratio	Lower	Upper
108	100		
106	106.6	86.6	130.0
79	20.5	15.5	23.3





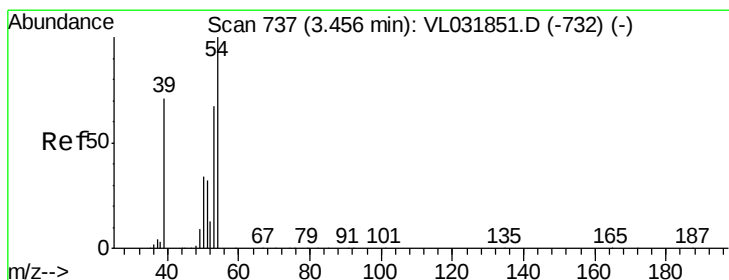
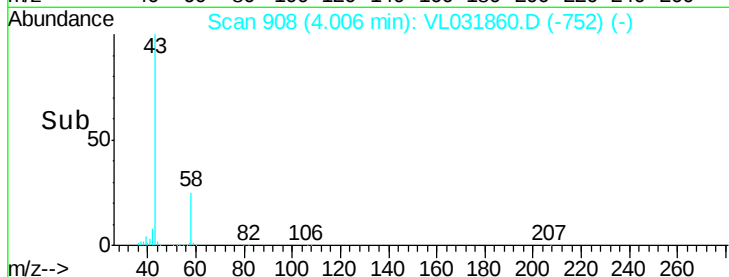
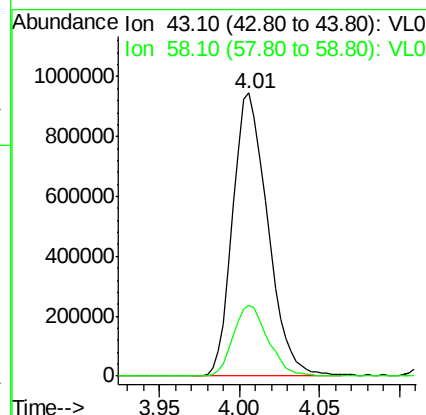
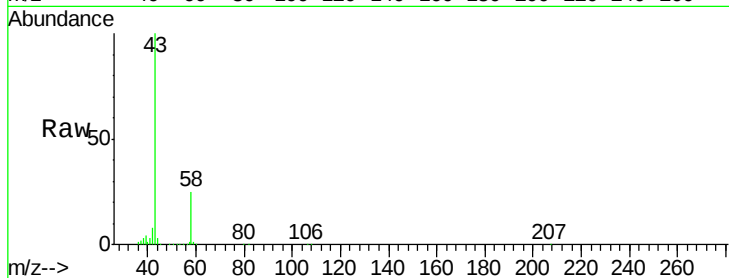
#15
Acetone
Concen: 6.599 ppbv
RT: 4.01 min Scan# 908
Delta R.T. 0.00 min
Lab File: VL031860.D
Acq: 12 Apr 2018 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0412ABS01

Tot Ion: 43 Resp: 1413249
Ion Ratio Lower Upper
43 100
58 24.9 20.9 31.3

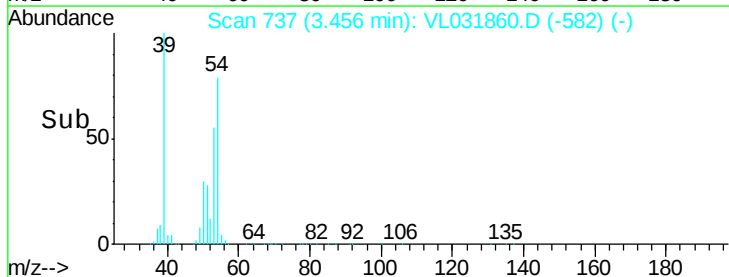
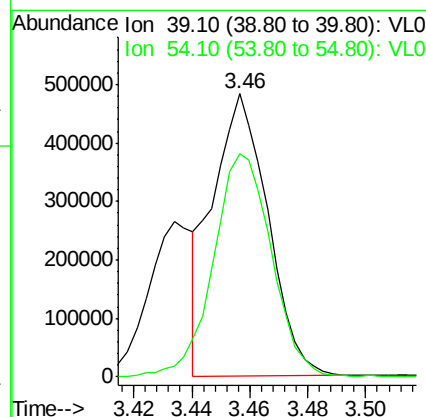
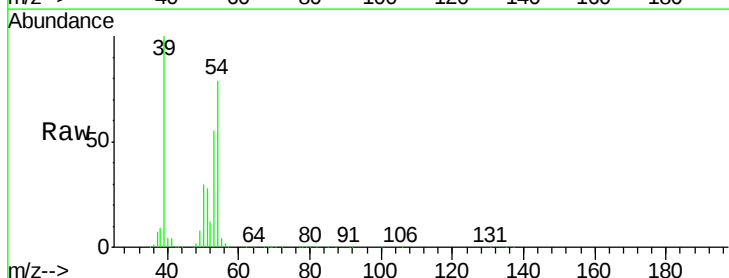
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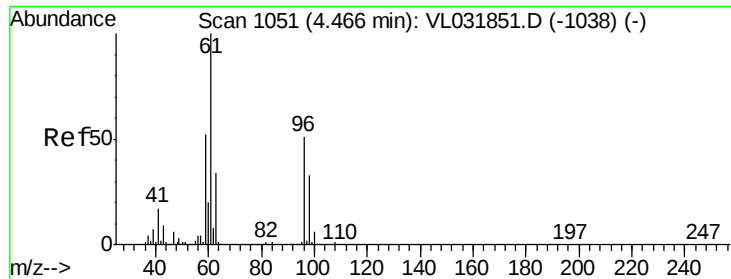
MMDadoda
4/15/2018 3:06:34 PM



#16
1,3-Butadiene
Concen: 7.999 ppbv
RT: 3.46 min Scan# 737
Delta R.T. -0.00 min
Lab File: VL031860.D
Acq: 12 Apr 2018 10:07

Tgt Ion: 39 Resp: 633869
Ion Ratio Lower Upper
39 100
54 84.1 63.3 94.9





#17

tert-Butyl alcohol

Concen: 9.502 ppbv

RT: 4.47 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

Instrument :

MSVOA_L

ClientSampleId :

VL0412ABS01

Tot Ion: 59 Resp: 840997

Ion Ratio Lower Upper

59 100

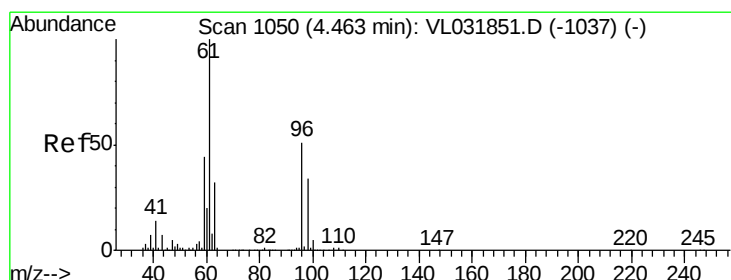
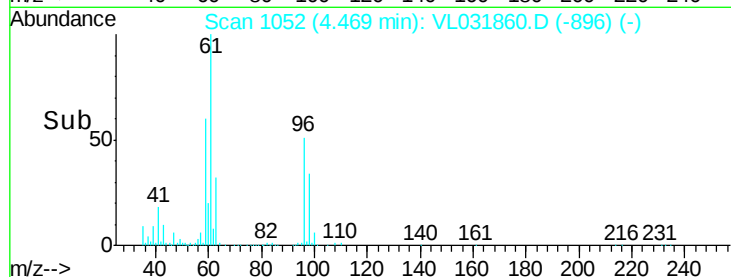
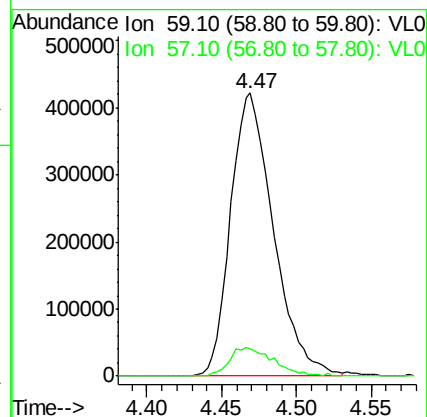
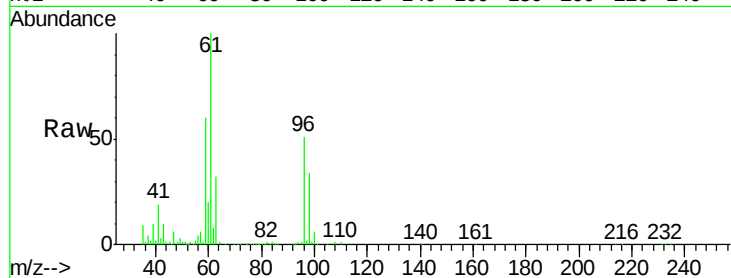
57 10.7 8.5 12.7

Manual Integrations

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#18

1,1-Dichloroethene

Concen: 8.804 ppbv

RT: 4.46 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

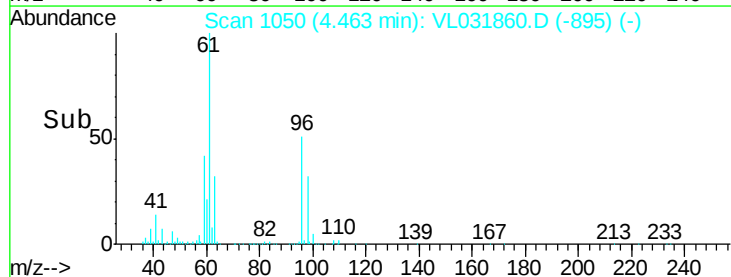
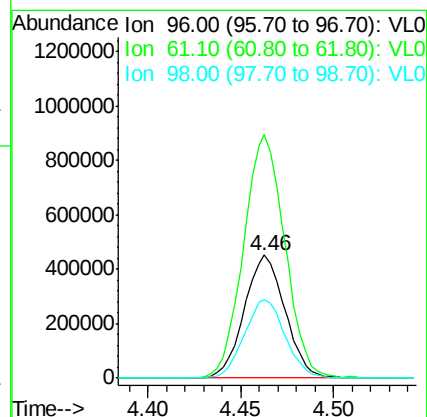
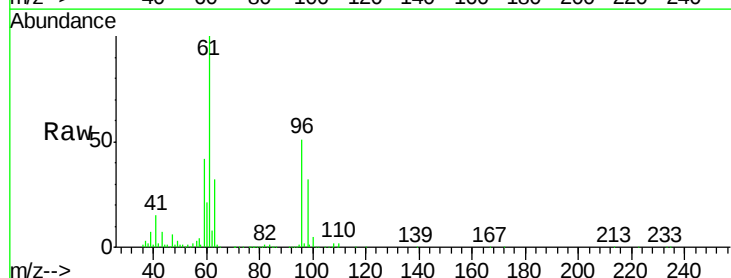
Tgt Ion: 96 Resp: 691560

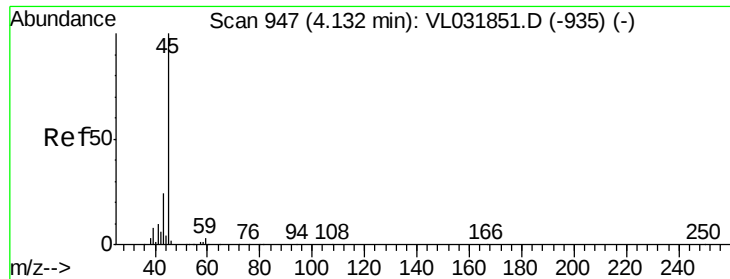
Ion Ratio Lower Upper

96 100

61 197.8 161.0 241.6

98 64.2 52.7 79.1





#19

Isopropyl Alcohol

Concen: 7.853 ppbv

RT: 4.13 min Scan# 947

Delta R.T. 0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

Instrument :

MSVOA_L

ClientSampleId :

VL0412ABS01

Tot Ion: 45 Resp: 939436

Ion Ratio Lower Upper

45 100

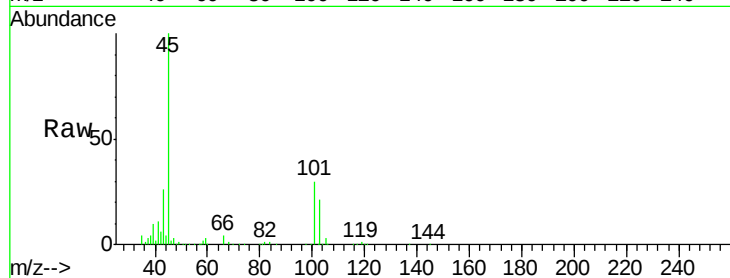
58 2.0 1.7 2.5

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.13

500000

400000

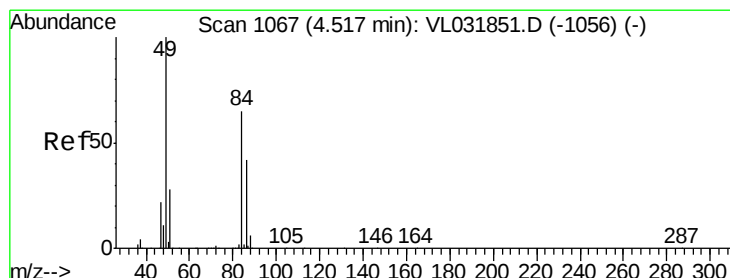
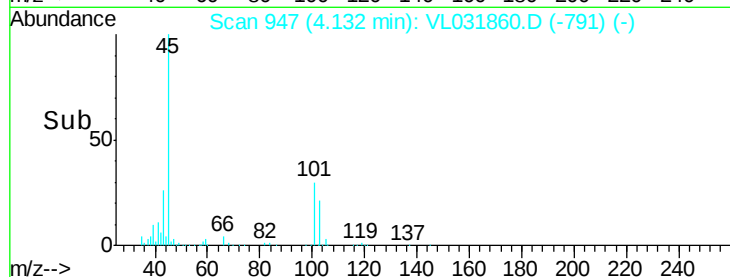
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 8.493 ppbv

RT: 4.52 min Scan# 1068

Delta R.T. -0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

Tgt Ion: 84 Resp: 662487

Ion Ratio Lower Upper

84 100

49 146.4 125.6 188.4

51 45.9 36.4 54.6

86 61.6 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

800000

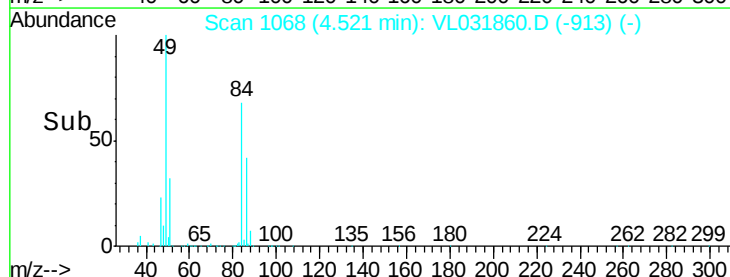
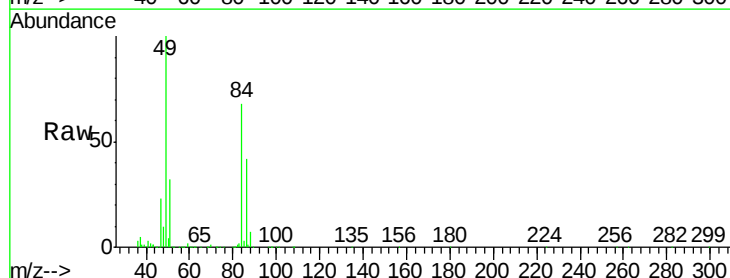
600000

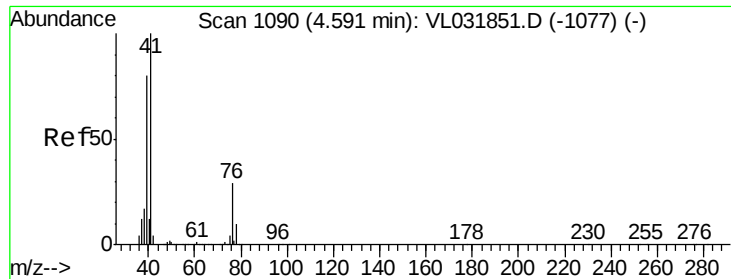
400000

200000

0

Time-->





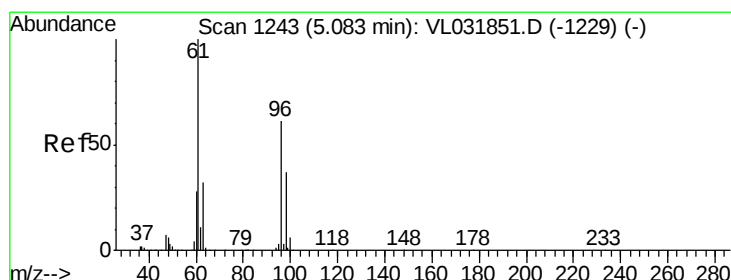
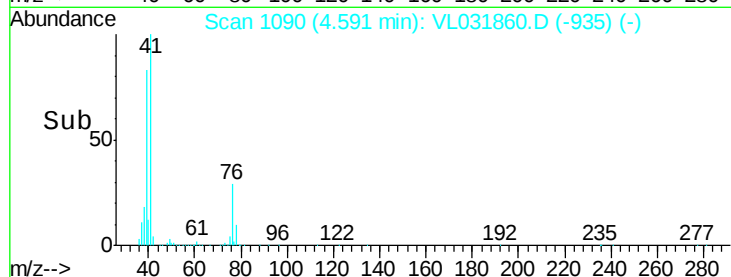
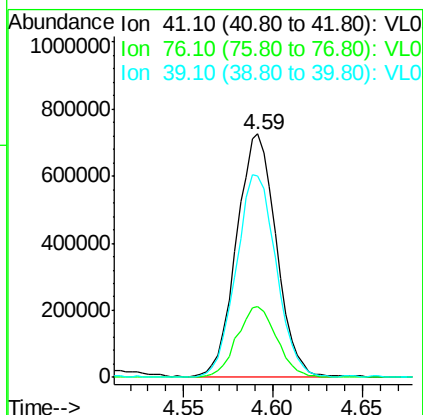
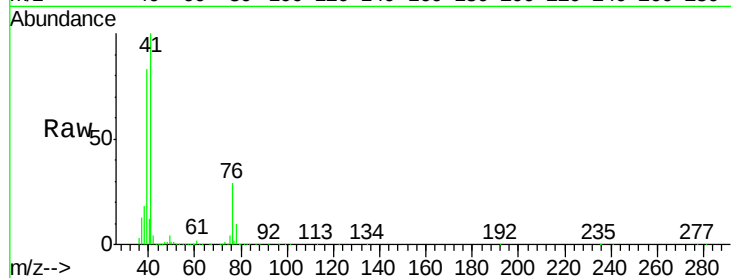
#21
Allvl Chloride
Concen: 9.150 ppbv
RT: 4.59 min Scan# 1090
Delta R.T. -0.00 min
Lab File: VL031860.D
Acq: 12 Apr 2018 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0412ABS01

Tot Ion	Ratio	Lower	Upper
41	100		
76	29.6	23.4	35.2
39	84.7	67.6	101.4

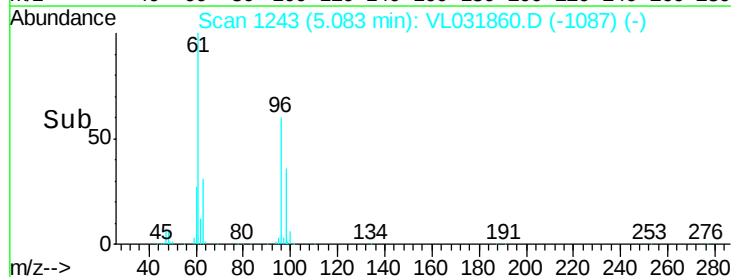
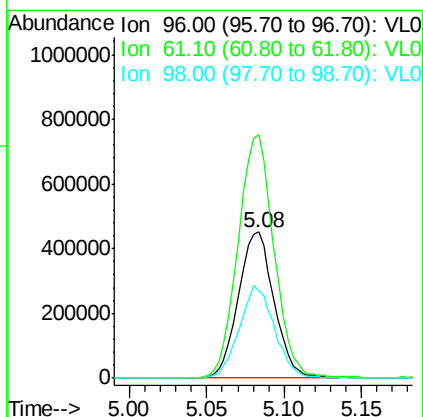
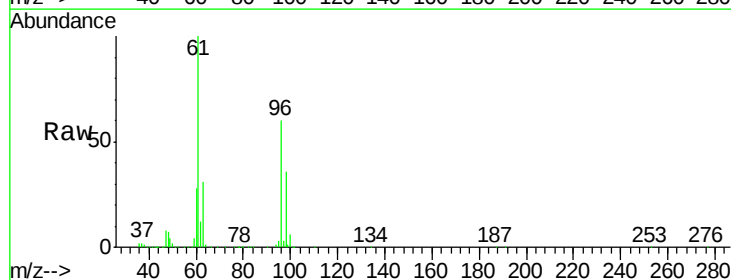
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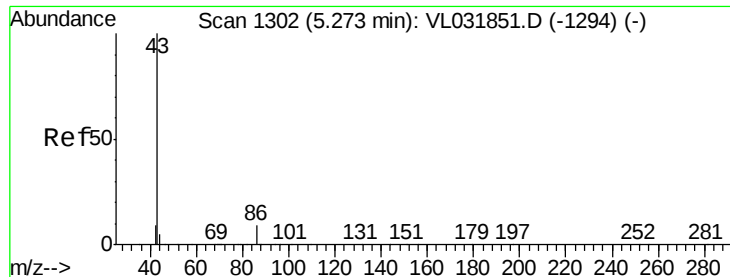
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#22
trans-1,2-Dichloroethene
Concen: 8.888 ppbv
RT: 5.08 min Scan# 1243
Delta R.T. 0.00 min
Lab File: VL031860.D
Acq: 12 Apr 2018 10:07

Tgt Ion	Ratio	Lower	Upper
96	100		
61	166.5	131.1	196.7
98	59.6	47.6	71.4





#23

Vinyl Acetate

Concen: 9.214 ppbv

RT: 5.28 min Scan# 1303

Delta R.T. -0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

Tot Ion: 43 Resp: 2001175

Ion Ratio Lower Upper

43 100

86 7.8 5.8 8.8

42 11.1 8.5 12.7

44 5.9 4.2 6.4

Instrument :

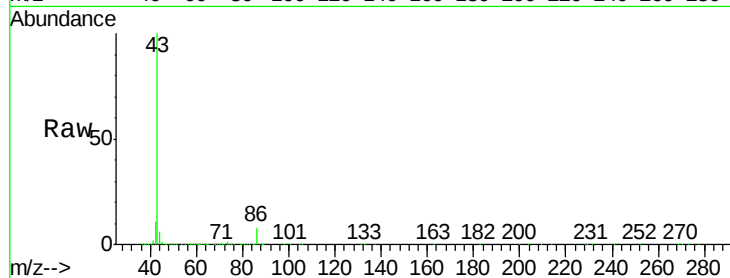
MSVOA_L

ClientSampleId :

VL0412ABS01

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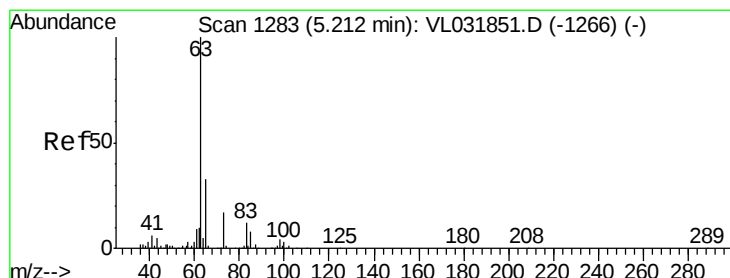
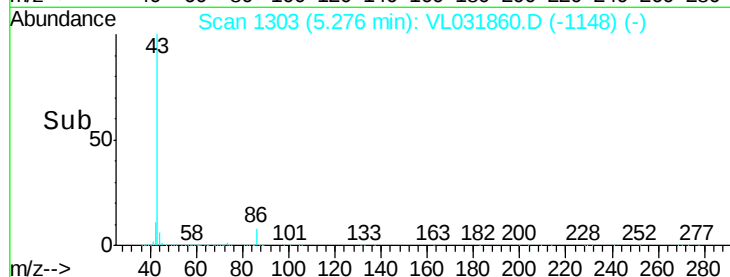
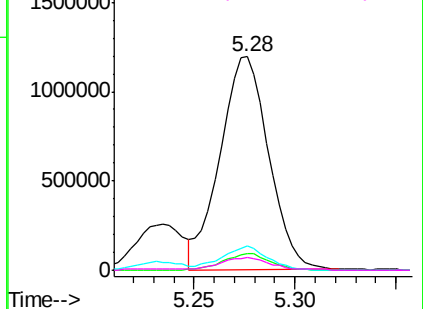


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 8.307 ppbv

RT: 5.21 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

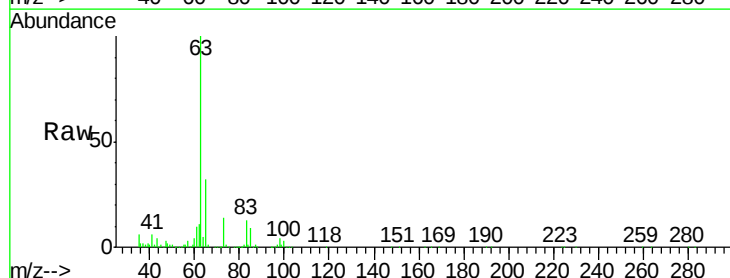
Tgt Ion: 63 Resp: 1797285

Ion Ratio Lower Upper

63 100

98 4.2 2.4 7.2

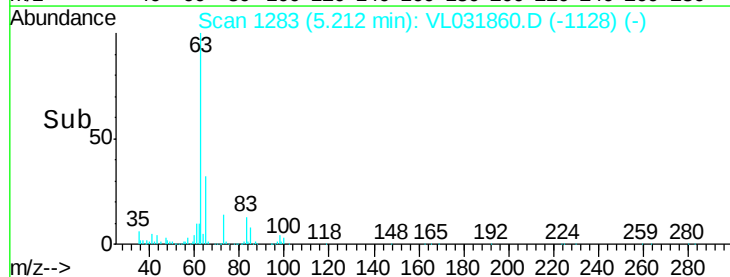
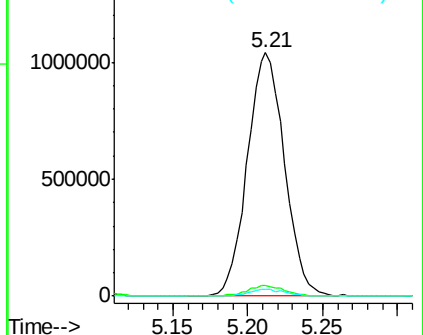
100 2.8 1.5 4.4

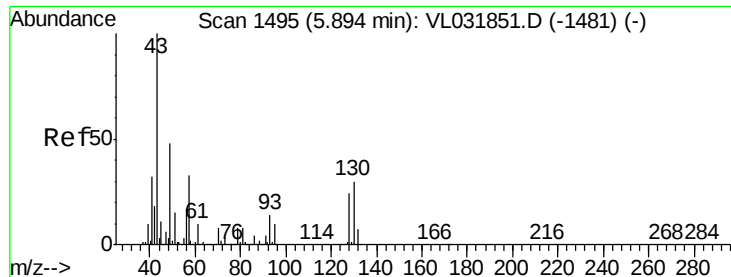


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





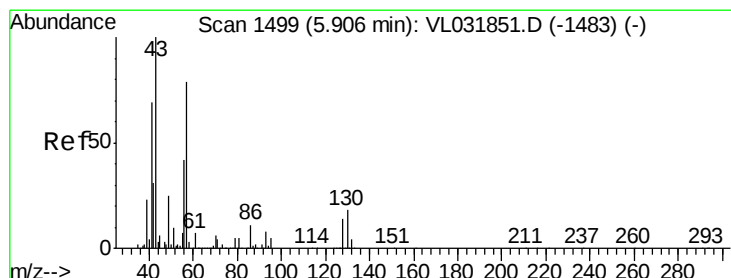
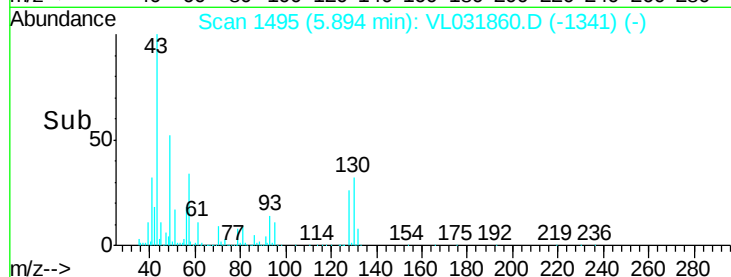
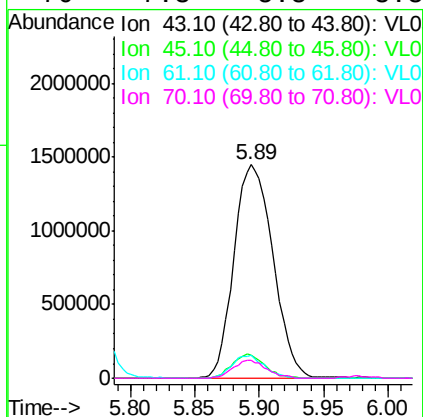
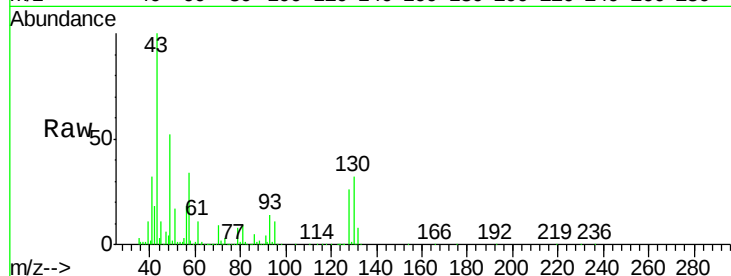
#25
Ethyl Acetate
Concen: 9.140 ppbv
RT: 5.89 min Scan# 1495
Delta R.T. -0.00 min
Lab File: VL031860.D
Acq: 12 Apr 2018 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0412ABS01

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.4	7.8	11.8
61	8.9	7.2	10.8
70	7.3	5.8	8.8

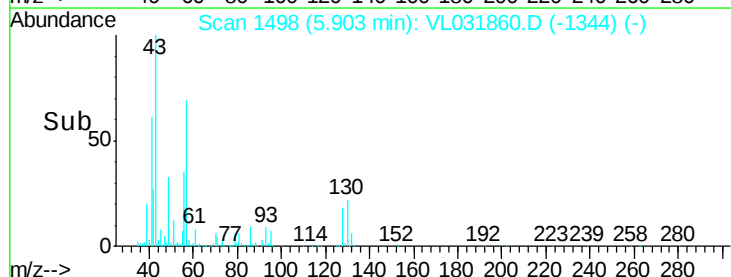
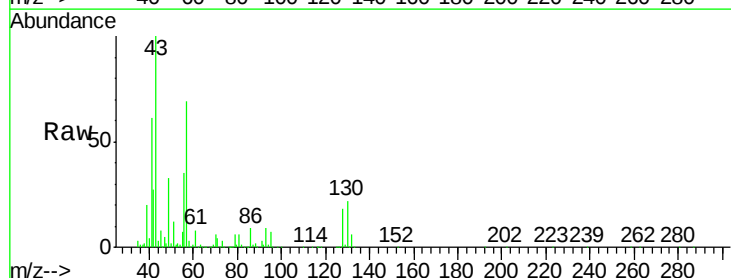
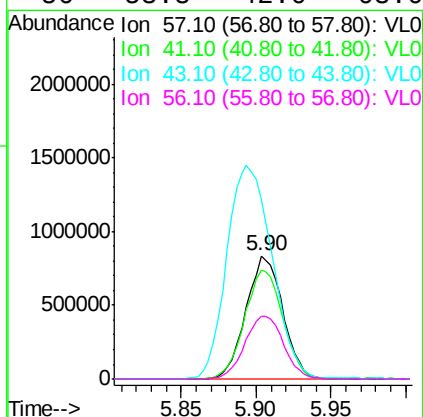
Manual Integrations
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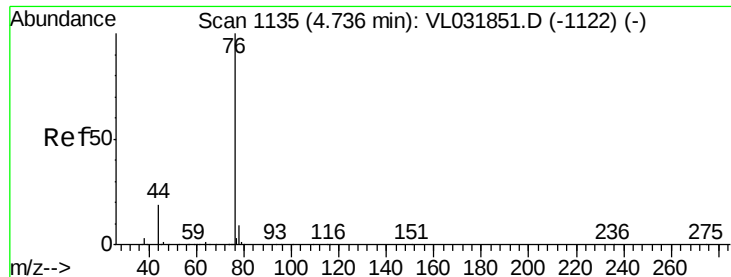
MMDadoda
4/15/2018 3:06:34 PM



#26
Hexane
Concen: 9.184 ppbv
RT: 5.90 min Scan# 1498
Delta R.T. -0.00 min
Lab File: VL031860.D
Acq: 12 Apr 2018 10:07

Tgt Ion	Ratio	Lower	Upper
57	100		
41	92.0	72.0	108.0
43	214.1	169.8	254.8
56	53.8	42.0	63.0





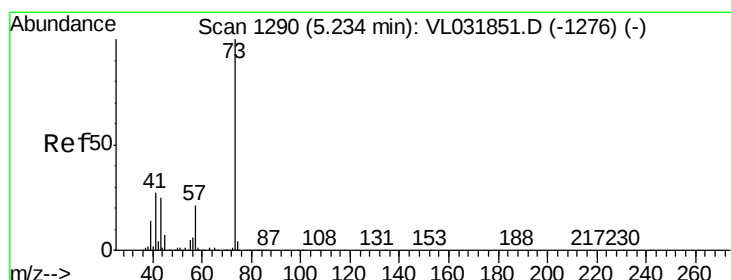
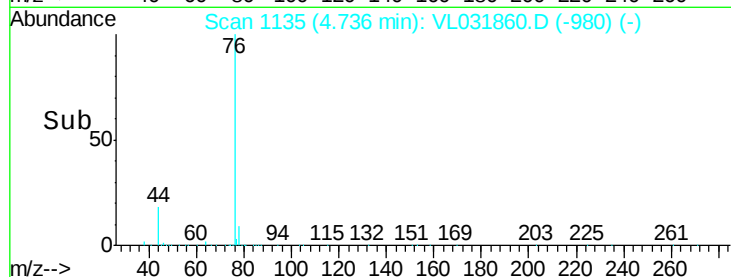
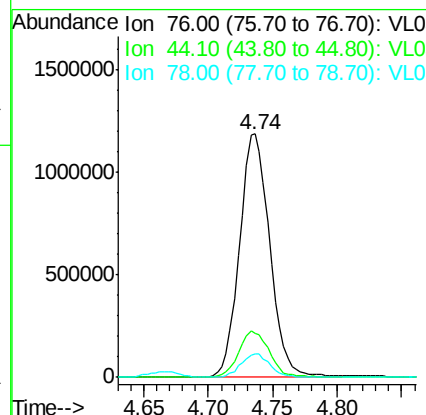
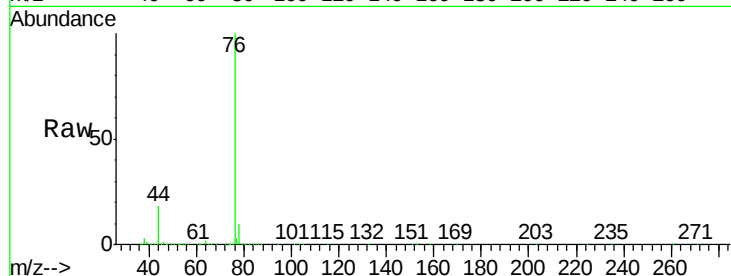
#27
Carbon Disulfide
Concen: 9.562 ppbv
RT: 4.74 min Scan# 1135
Delta R.T. -0.00 min
Lab File: VL031860.D
Acq: 12 Apr 2018 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0412ABS01

Tot Ion	Ratio	Lower	Upper
76	100		
44	19.3	15.6	23.4
78	9.3	7.6	11.4

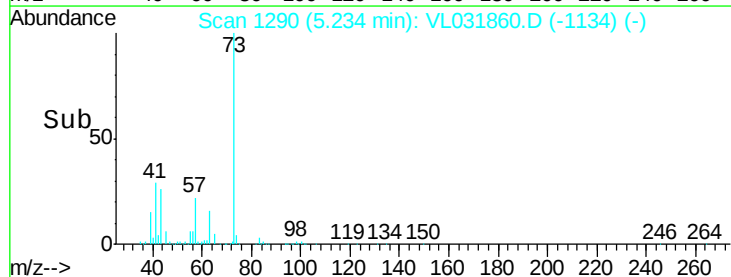
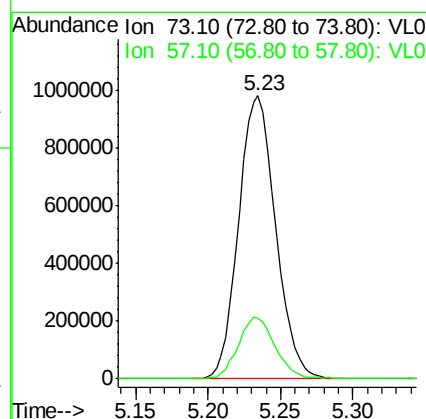
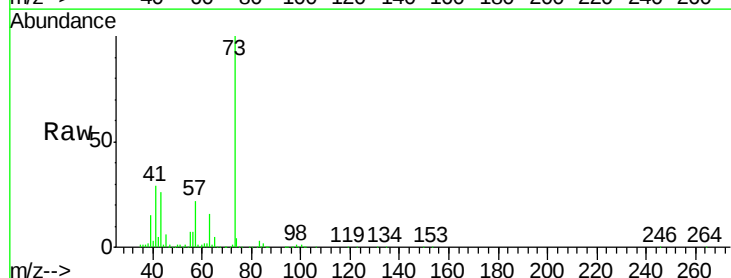
Manual Integrations
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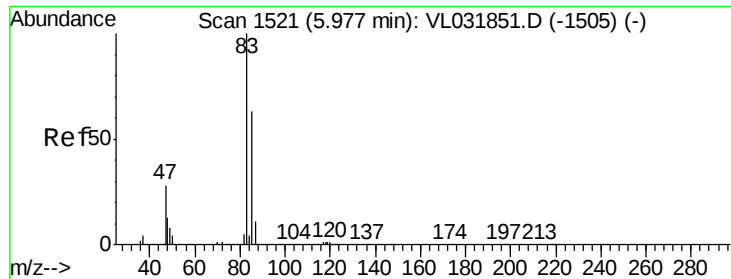
MMDadoda
4/15/2018 3:06:34 PM



#28
Methyl tert-Butyl Ether
Concen: 9.087 ppbv
RT: 5.23 min Scan# 1290
Delta R.T. 0.00 min
Lab File: VL031860.D
Acq: 12 Apr 2018 10:07

Tgt Ion	Ratio	Lower	Upper
73	100		
57	22.0	17.6	26.4





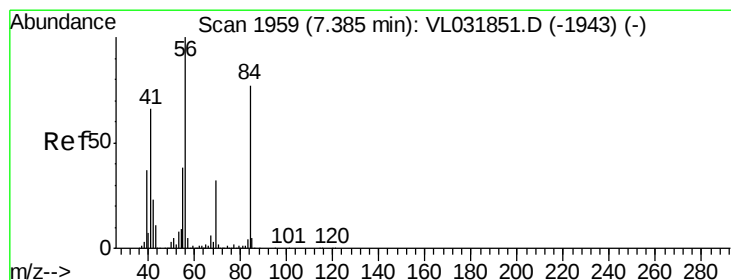
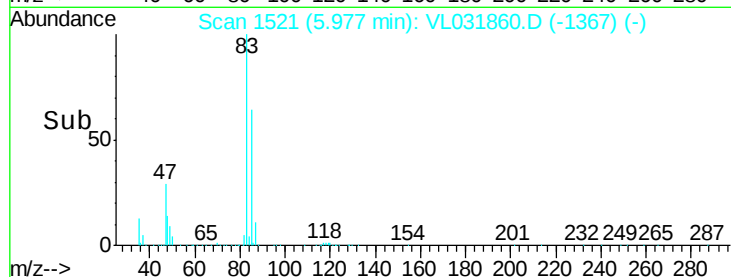
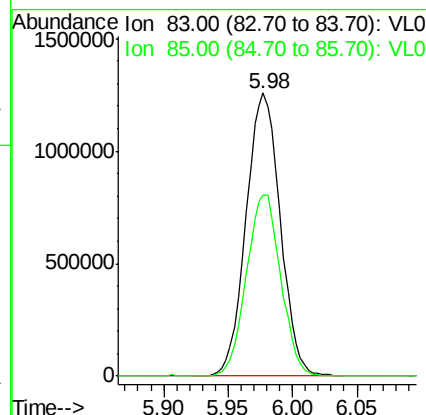
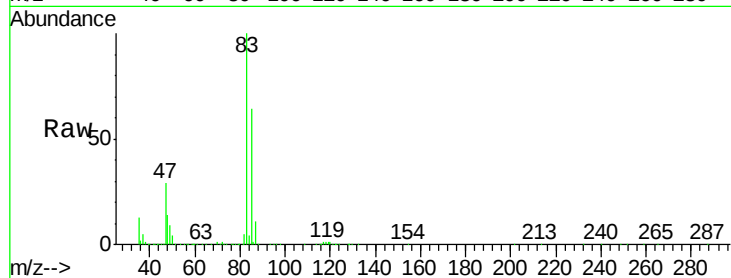
#29
Chloroform
Concen: 8.808 ppbv
RT: 5.98 min Scan# 1521
Delta R.T. -0.00 min
Lab File: VL031860.D
Acq: 12 Apr 2018 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0412ABS01

Tot Ion: 83 Resp: 2325167
Ion Ratio Lower Upper
83 100
85 63.6 51.4 77.0

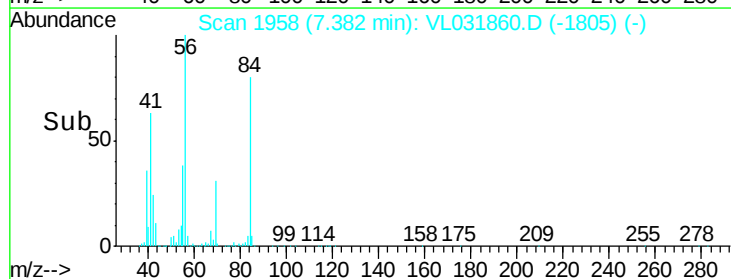
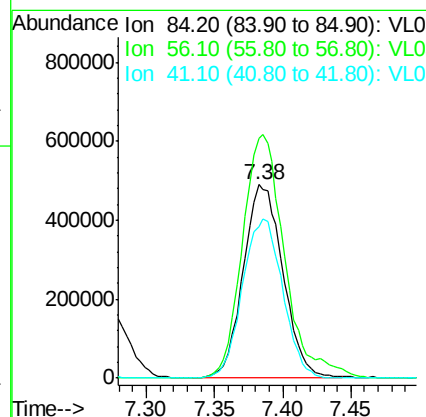
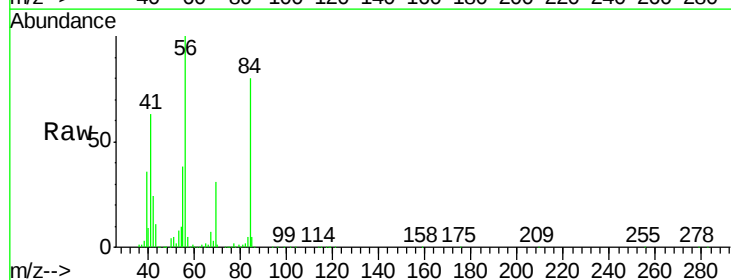
Manual Integrations
APPROVED

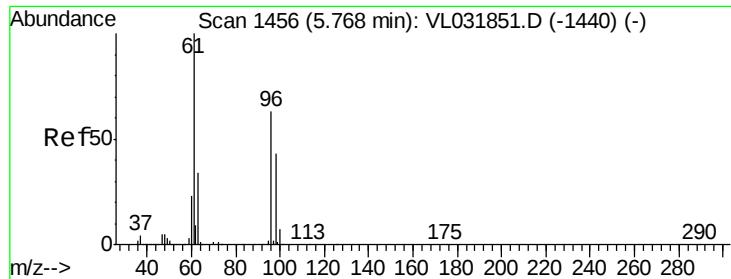
MMDadoda
4/15/2018 3:06:34 PM



#30
Cyclohexane
Concen: 8.927 ppbv
RT: 7.38 min Scan# 1958
Delta R.T. -0.01 min
Lab File: VL031860.D
Acq: 12 Apr 2018 10:07

Tgt Ion: 84 Resp: 992801
Ion Ratio Lower Upper
84 100
56 133.5 107.7 161.5
41 83.4 68.2 102.2





#31

cis-1,2-Dichloroethene

Concen: 9.619 ppbv

RT: 5.77 min Scan# 1455

Delta R.T. -0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

Instrument :

MSVOA_L

ClientSampleId :

VL0412ABS01

Tot Ion: 61 Resp: 1357038

Ion Ratio Lower Upper

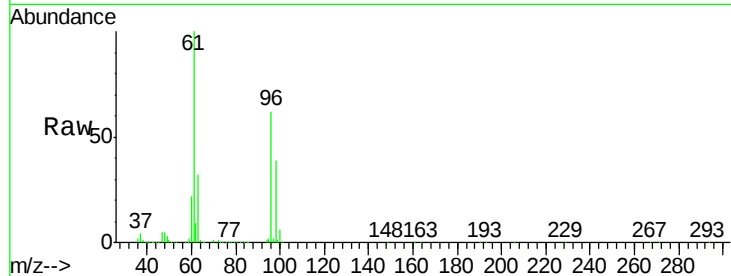
61 100

96 62.2 47.6 71.4

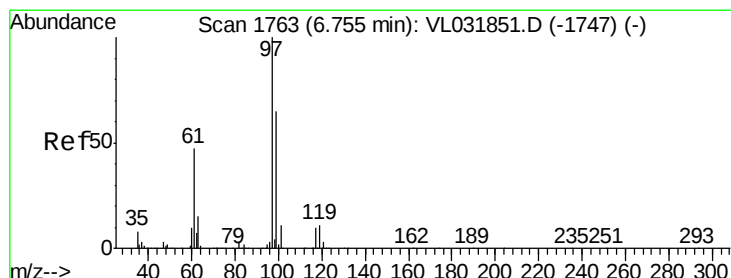
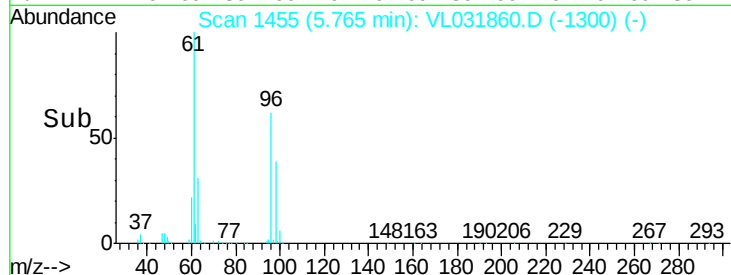
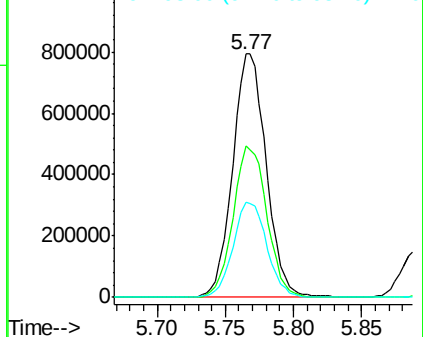
98 39.1 30.3 45.5

Manual Integrations
APPROVED

MMDadoda
4/15/2018 3:06:34 PM



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



#32

1,1,1-Trichloroethane

Concen: 8.839 ppbv

RT: 6.76 min Scan# 1763

Delta R.T. -0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

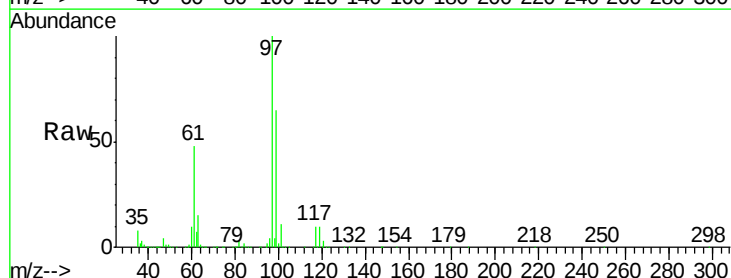
Tgt Ion: 97 Resp: 2272540

Ion Ratio Lower Upper

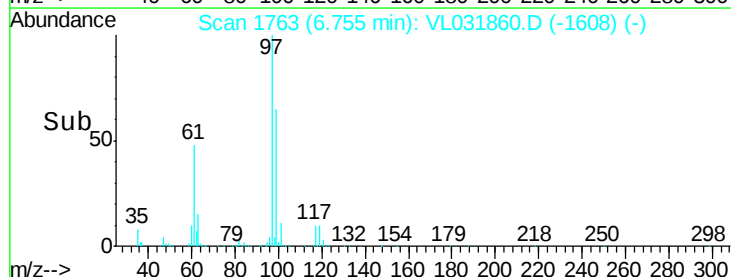
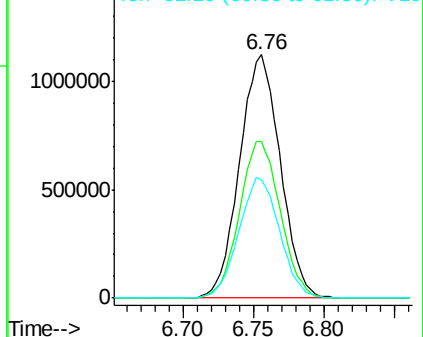
97 100

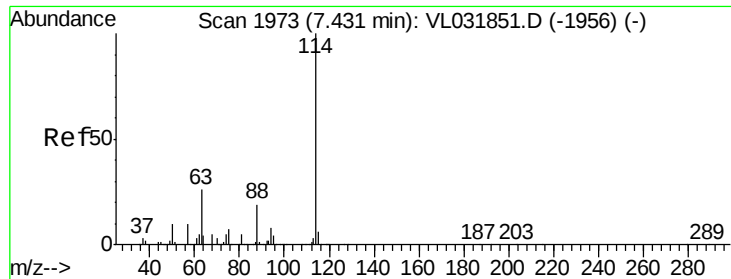
99 64.7 51.5 77.3

61 49.6 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





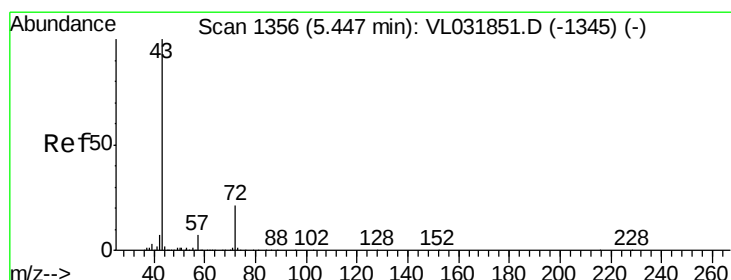
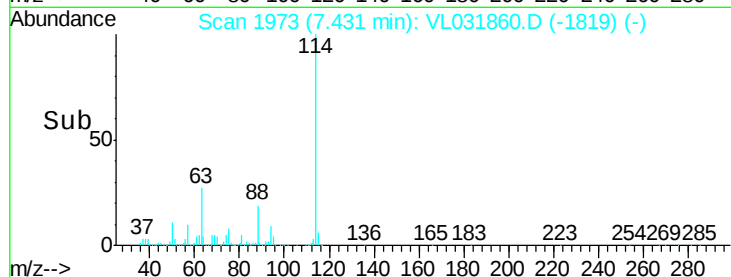
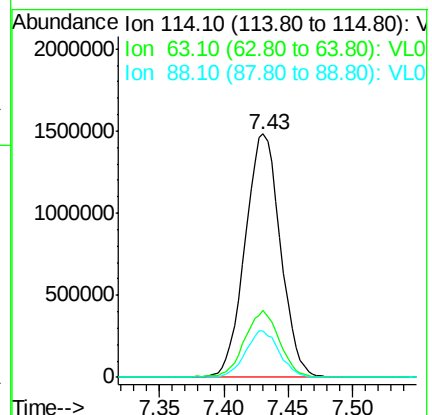
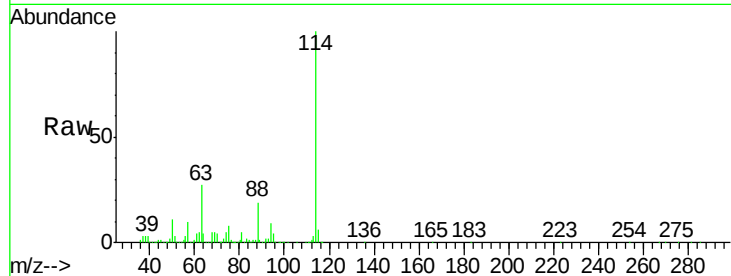
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.43 min Scan# 1973
 Delta R.T. -0.00 min
 Lab File: VL031860.D
 Acq: 12 Apr 2018 10:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0412ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.1	21.8	32.6
88	18.4	14.6	22.0

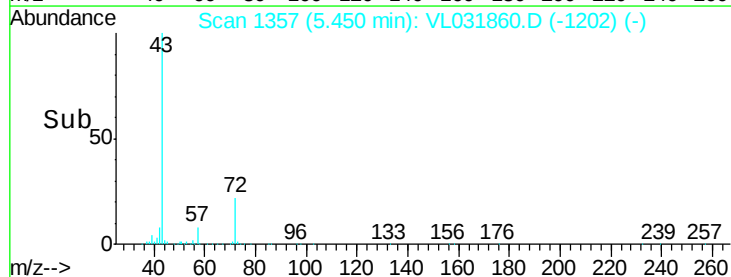
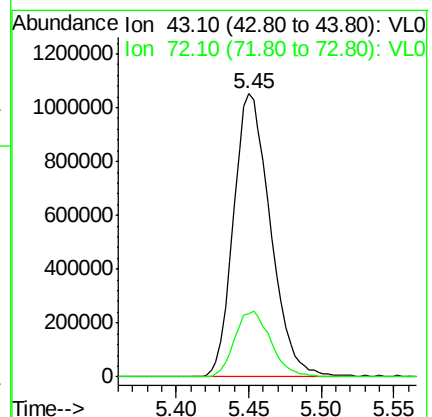
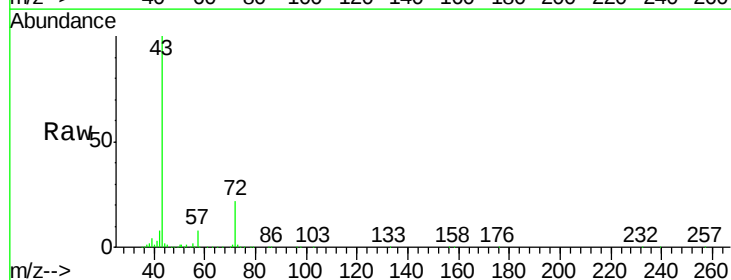
Manual Integrations
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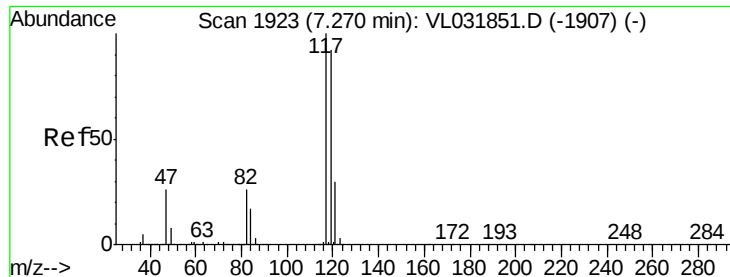
MMDadoda
 4/15/2018 3:06:34 PM



#34
 2-Butanone
 Concen: 9.425 ppbv
 RT: 5.45 min Scan# 1357
 Delta R.T. -0.00 min
 Lab File: VL031860.D
 Acq: 12 Apr 2018 10:07

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.0	18.6	27.8





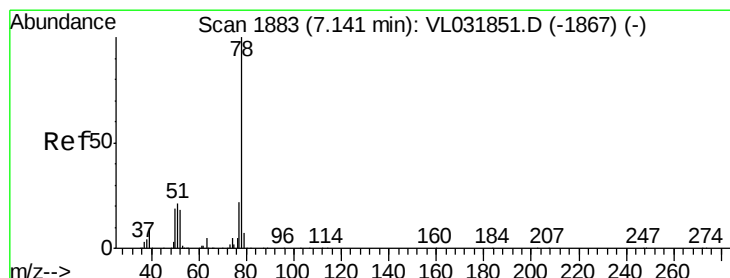
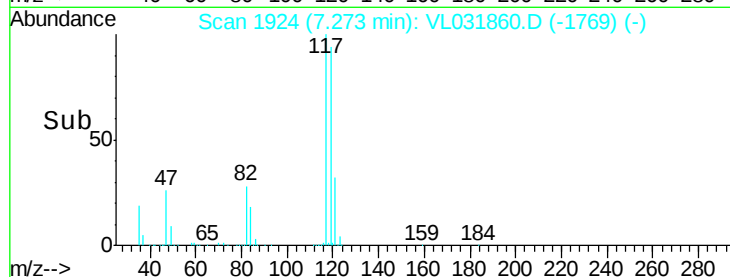
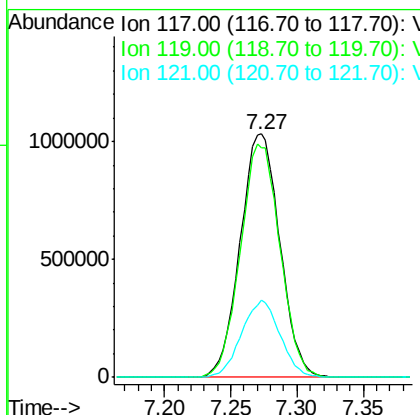
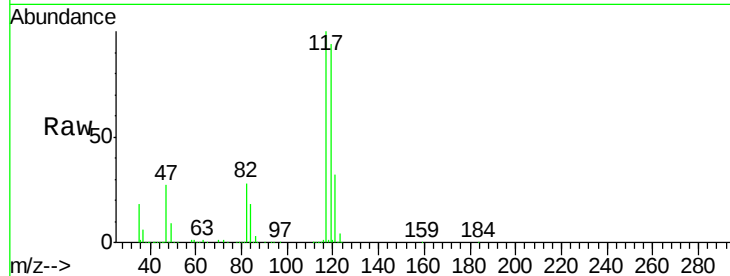
#35
Carbon Tetrachloride
Concen: 8.736 ppbv
RT: 7.27 min Scan# 1924
Delta R.T. -0.00 min
Lab File: VL031860.D
Acq: 12 Apr 2018 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0412ABS01

Tot Ion	Ratio	Lower	Upper
117	100		
119	94.4	76.9	115.3
121	31.6	24.5	36.7

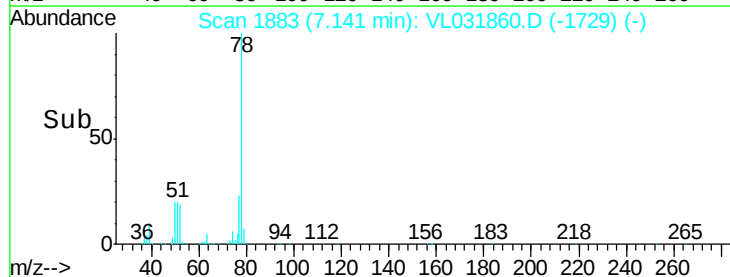
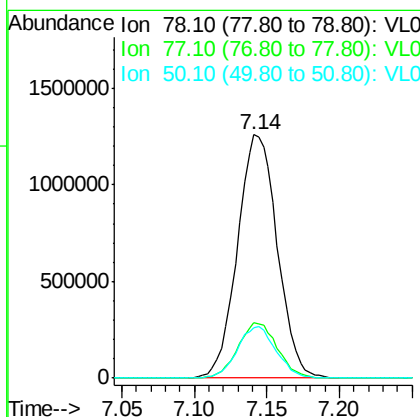
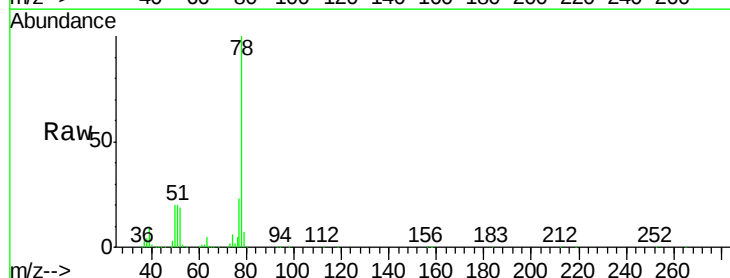
Manual Integrations
APPROVED

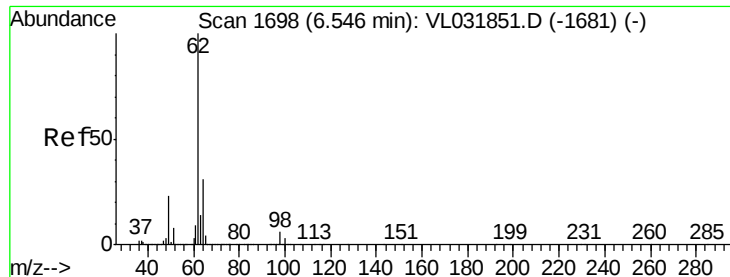
MMDadoda
4/15/2018 3:06:34 PM



#36
Benzene
Concen: 9.426 ppbv
RT: 7.14 min Scan# 1883
Delta R.T. -0.00 min
Lab File: VL031860.D
Acq: 12 Apr 2018 10:07

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.5	19.2	28.8
50	20.4	16.7	25.1





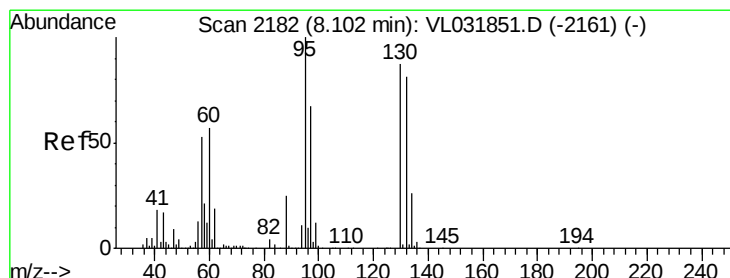
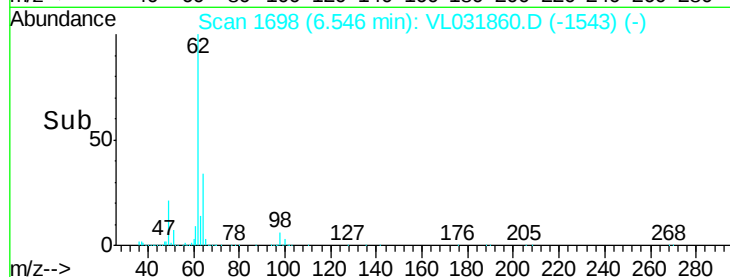
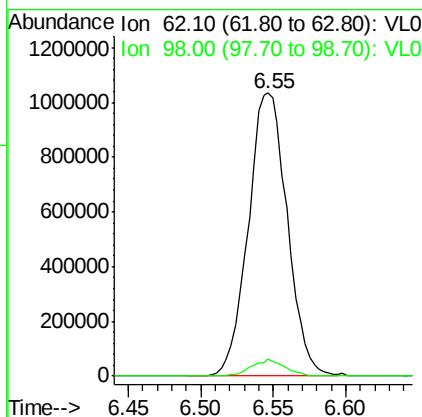
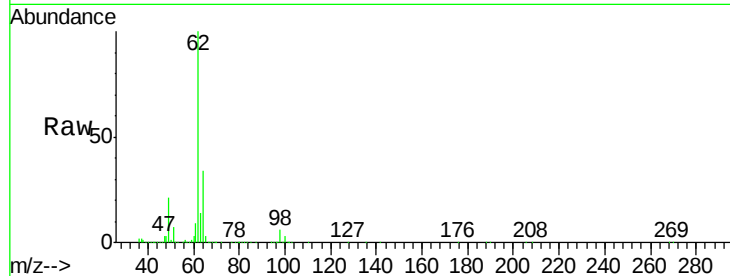
#37
 1,2-Dichloroethane
 Concen: 10.221 ppbv
 RT: 6.55 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VL031860.D
 Acq: 12 Apr 2018 10:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0412ABS01

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.1	4.0	6.0

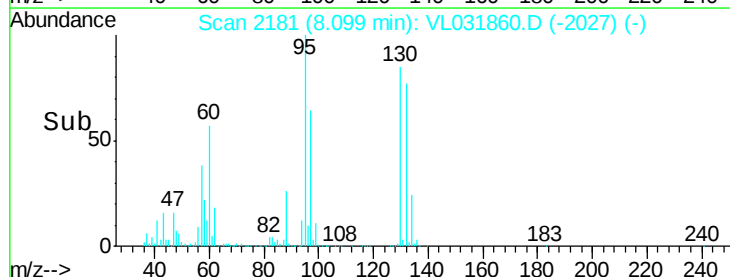
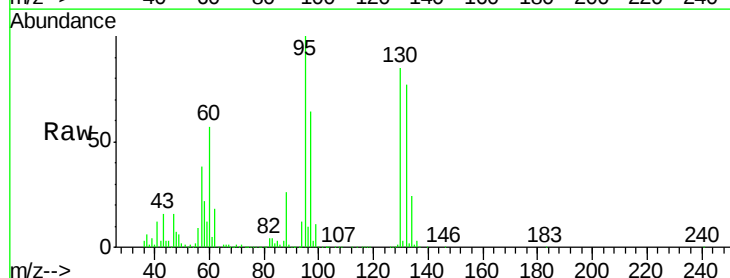
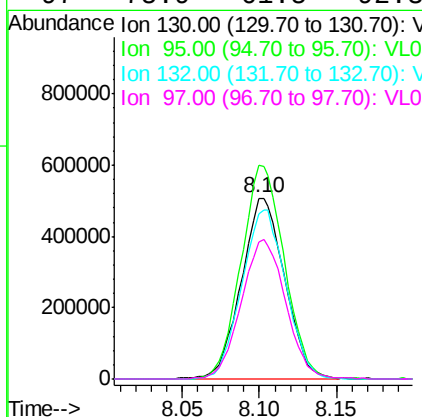
Manual Integrations
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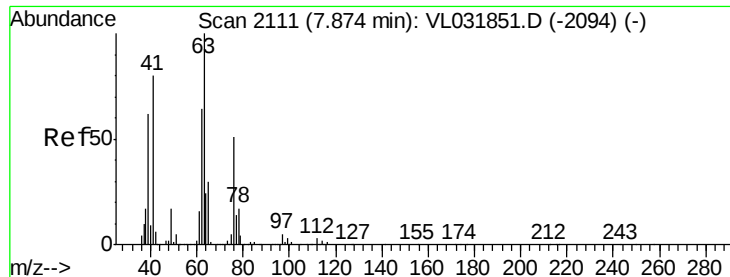
MMDadoda
 4/15/2018 3:06:34 PM



#38
 Trichloroethene
 Concen: 9.450 ppbv
 RT: 8.10 min Scan# 2181
 Delta R.T. -0.00 min
 Lab File: VL031860.D
 Acq: 12 Apr 2018 10:07

Tgt Ion	Ratio	Lower	Upper
130	100		
95	118.5	96.6	144.8
132	91.8	79.1	118.7
97	75.9	61.5	92.3





#39

1,2-Dichloropropane

Concen: 8.992 ppbv

RT: 7.88 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

Instrument :

MSVOA_L

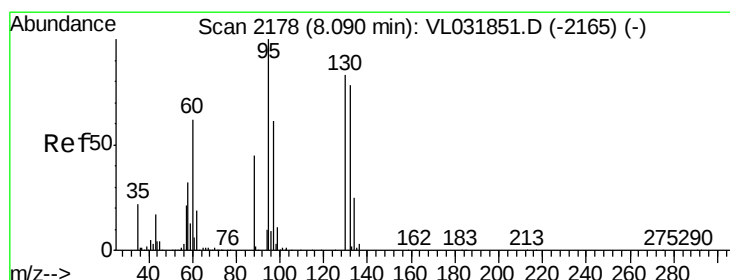
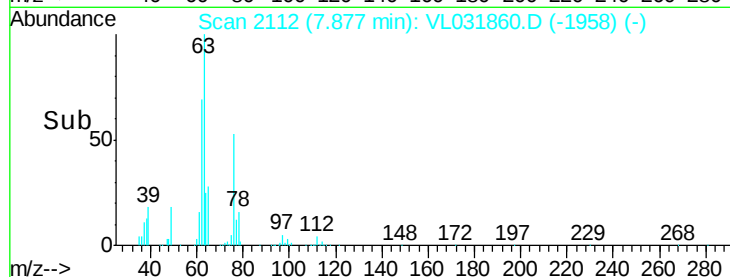
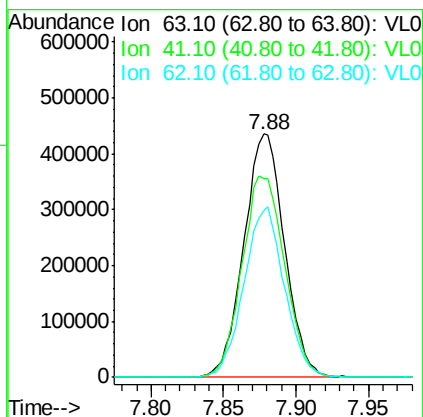
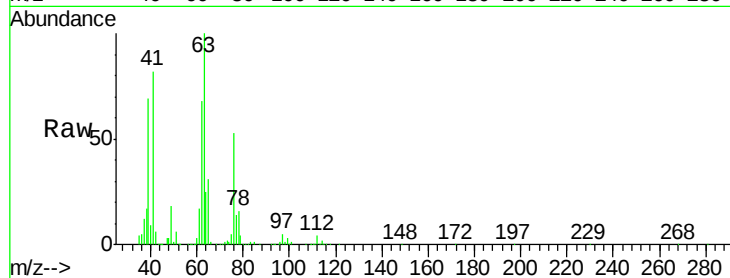
ClientSampleId :

VL0412ABS01

Tot Ion:	63	Resp:	850781
Ion Ratio	Lower	Upper	
63	100		
41	81.8	65.8	98.6
62	68.4	55.0	82.6

Manual Integrations
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MMDadoda
4/15/2018 3:06:34 PM



#40

1,4-Dioxane

Concen: 10.209 ppbv

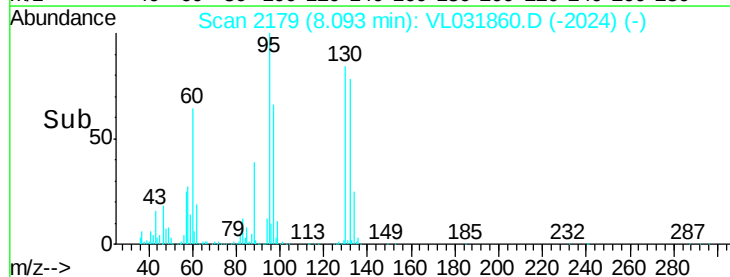
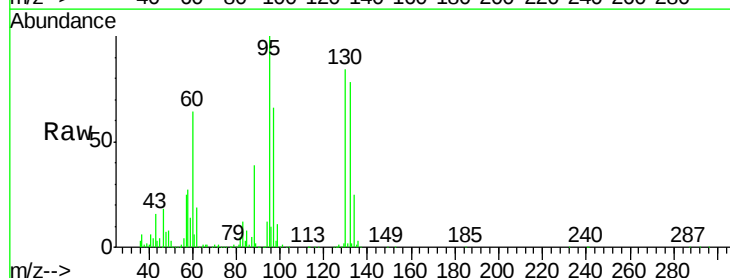
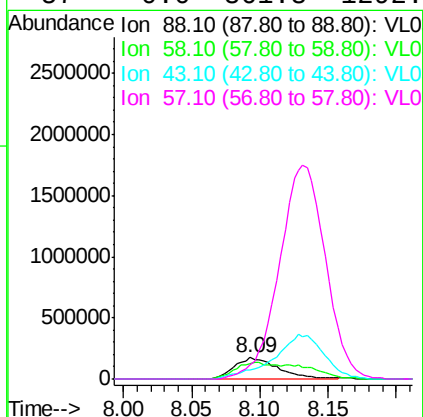
RT: 8.09 min Scan# 2179

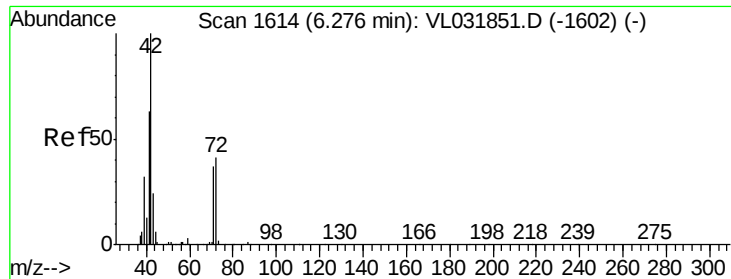
Delta R.T. -0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

Tgt Ion:	88	Resp:	392040
Ion Ratio	Lower	Upper	
88	100		
58	126.4	98.5	147.7
43	0.0	194.3	291.5#
57	0.0	861.8	1292.6#





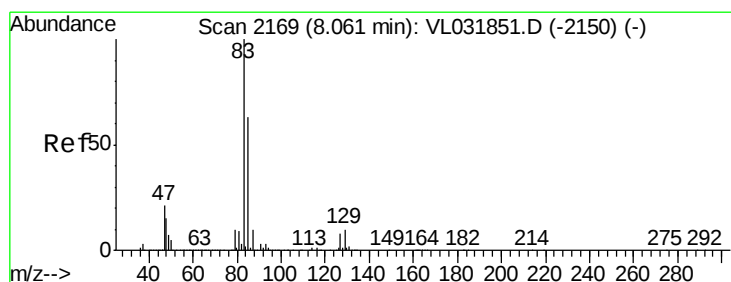
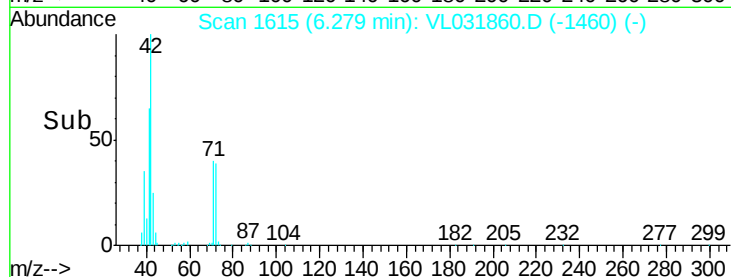
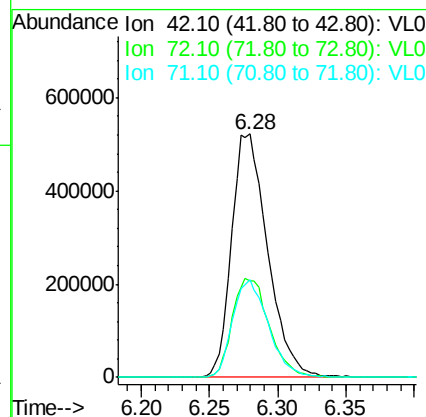
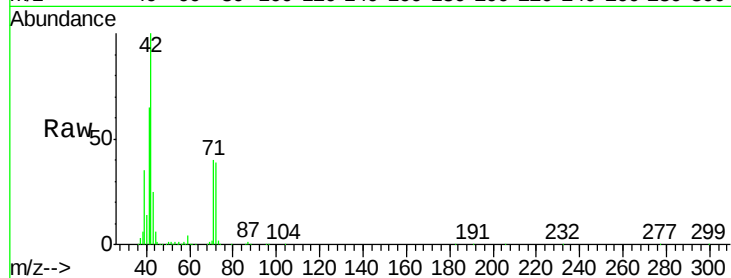
#41
Tetrahydrofuran
Concen: 10.598 ppbv
RT: 6.28 min Scan# 1615
Delta R.T. -0.00 min
Lab File: VL031860.D
Acq: 12 Apr 2018 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0412ABS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.5	33.2	49.8
71	39.8	31.5	47.3

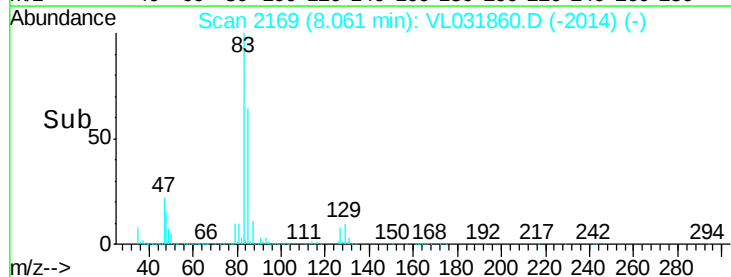
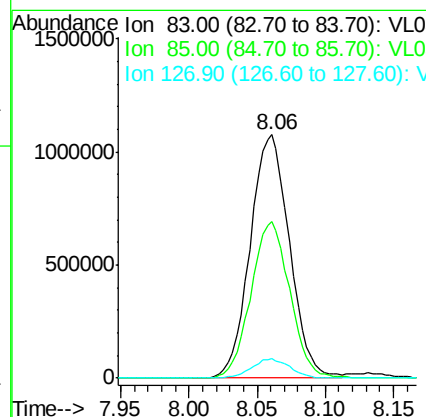
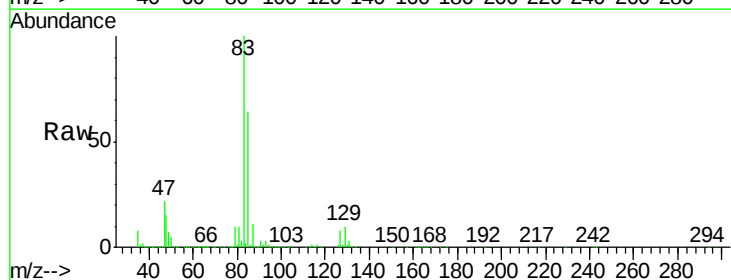
Manual Integrations
APPROVED

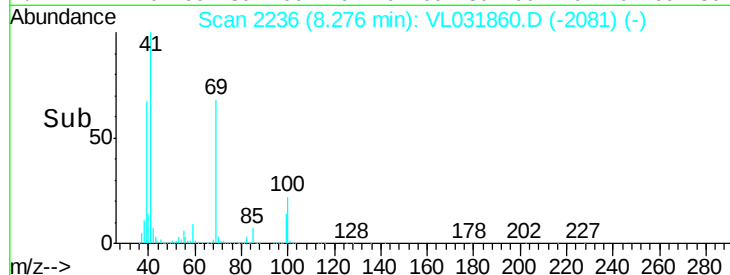
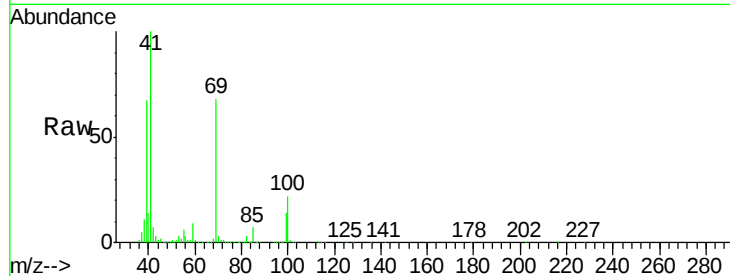
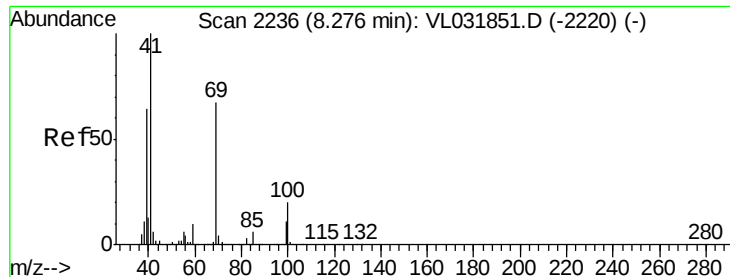
MMDadoda
4/15/2018 3:06:34 PM



#42
Bromodichloromethane
Concen: 9.496 ppbv
RT: 8.06 min Scan# 2169
Delta R.T. -0.00 min
Lab File: VL031860.D
Acq: 12 Apr 2018 10:07

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.1	50.5	75.7
127	8.0	6.0	9.0





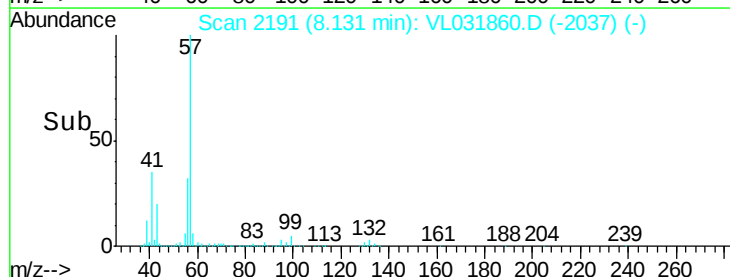
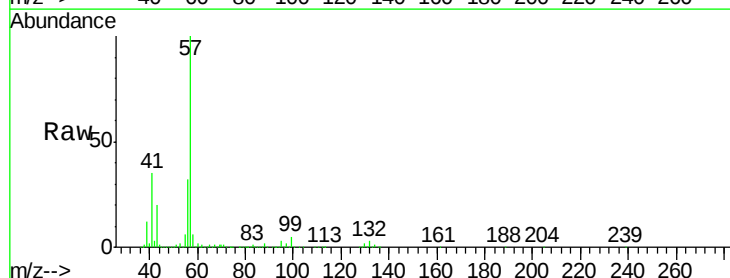
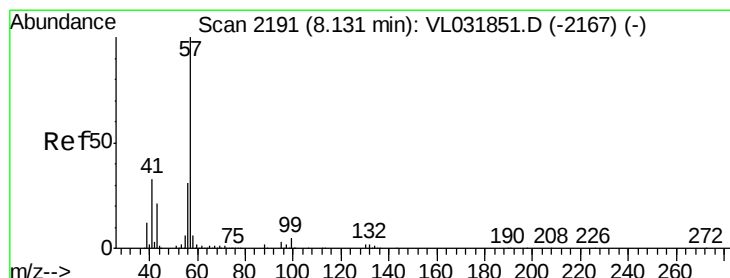
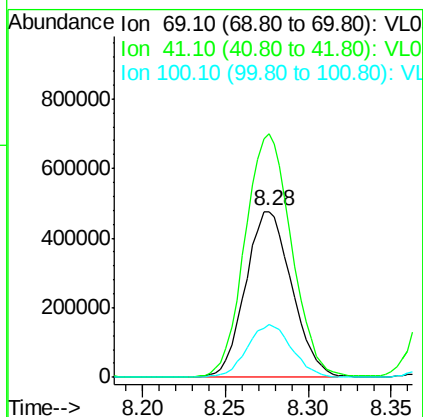
#43
Methvl Methacrylate
Concen: 10.354 ppbv
RT: 8.28 min Scan# 2236
Delta R.T. -0.00 min
Lab File: VL031860.D
Acq: 12 Apr 2018 10:07

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	148.0	117.8	176.8	
100	31.2	24.6	37.0	

Instrument :
MSVOA_L
ClientSampleId :
VL0412ABS01

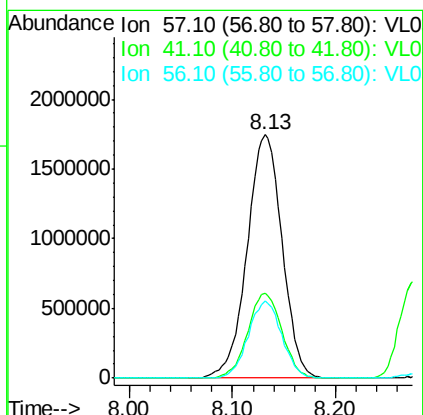
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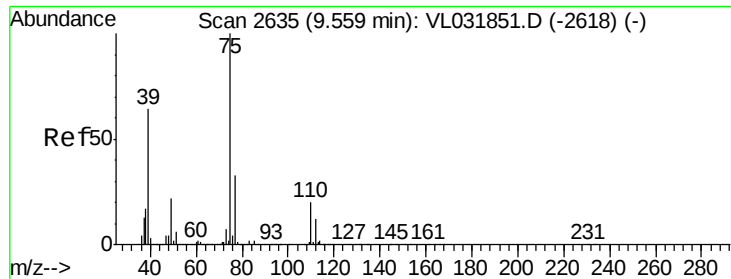
MMDadoda
4/15/2018 3:06:34 PM



#44
2,2,4-Trimethylpentane
Concen: 9.380 ppbv
RT: 8.13 min Scan# 2191
Delta R.T. -0.00 min
Lab File: VL031860.D
Acq: 12 Apr 2018 10:07

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	34.1	27.0	40.6	
56	30.4	24.1	36.1	





#45

t-1,3-Dichloropropene

Concen: 11.634 ppbv

RT: 9.56 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

Instrument :

MSVOA_L

ClientSampleId :

VL0412ABS01

Tot Ion: 75 Resp: 1351359

Ion Ratio Lower Upper

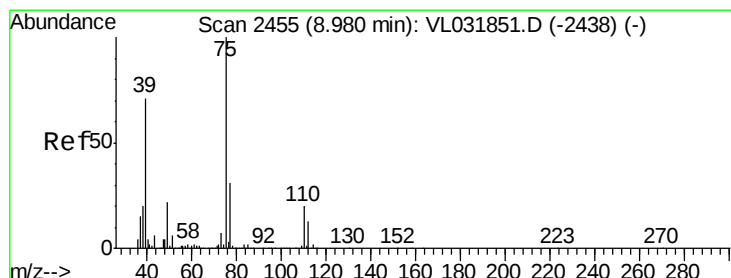
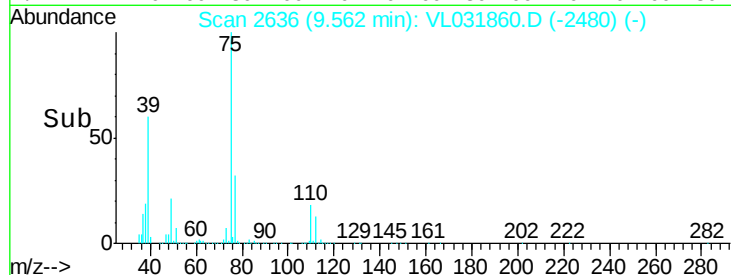
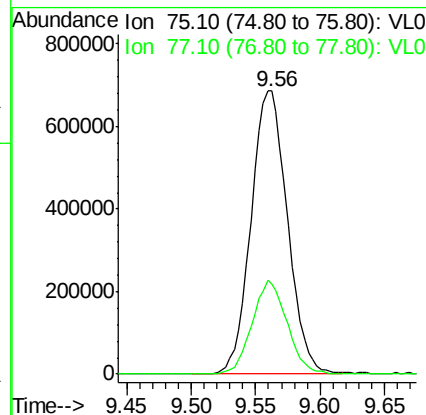
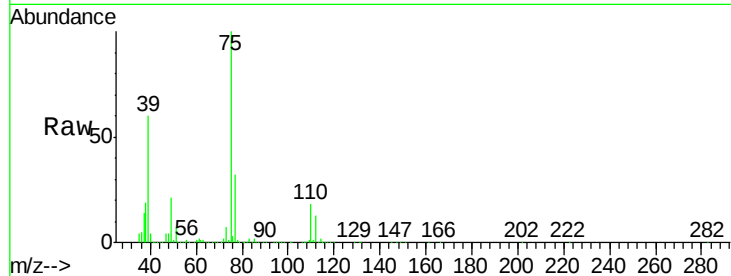
75 100

77 31.7 25.1 37.7

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#46

cis-1,3-Dichloropropene

Concen: 11.051 ppbv

RT: 8.98 min Scan# 2455

Delta R.T. -0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

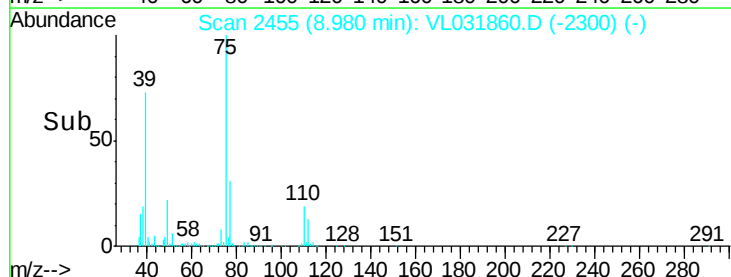
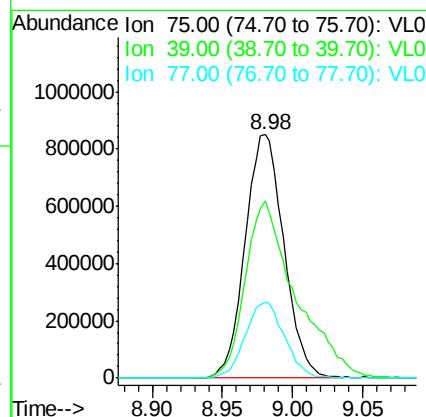
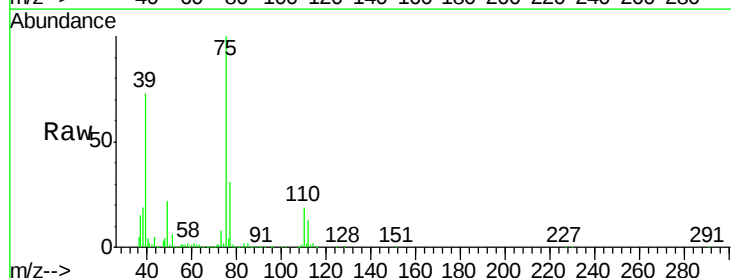
Tgt Ion: 75 Resp: 1640640

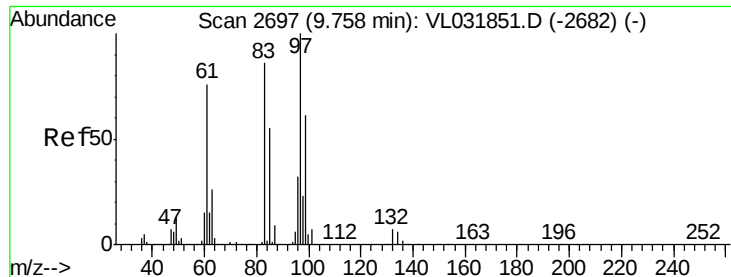
Ion Ratio Lower Upper

75 100

39 72.6 58.6 87.8

77 31.1 26.8 40.2





#47

1,1,2-Trichloroethane

Concen: 9.249 ppbv

RT: 9.76 min Scan# 2698

Delta R.T. -0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

Instrument :

MSVOA_L

ClientSampleId :

VL0412ABS01

Tot Ion: 97 Resp: 1040048

Ion Ratio Lower Upper

97 100

83 90.8 69.1 103.7

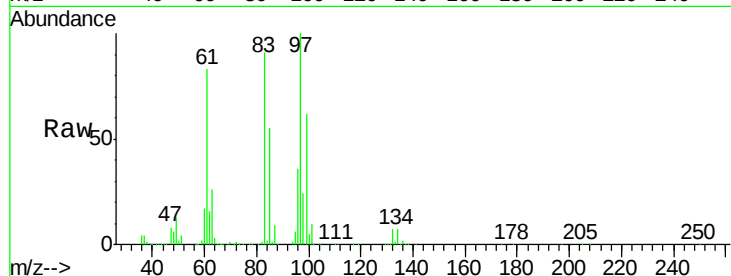
85 55.0 43.7 65.5

99 61.6 49.4 74.2

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4/15/2018 3:06:34 PM

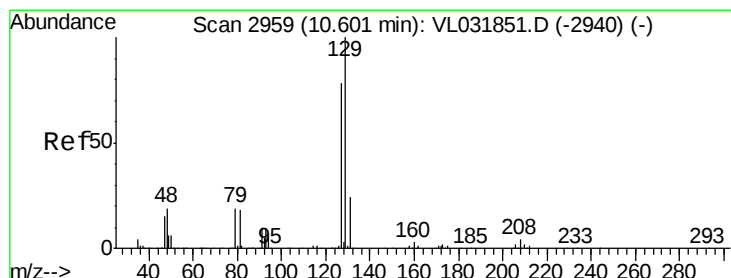
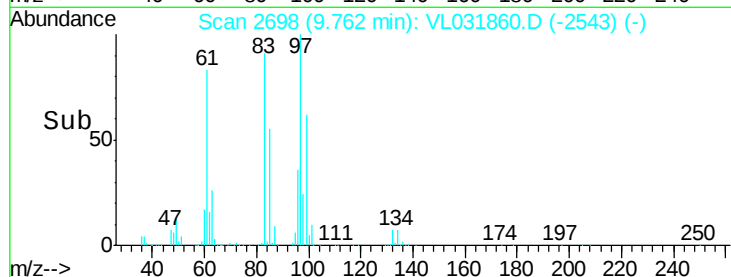
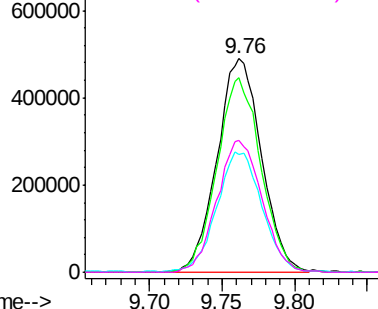


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 9.797 ppbv

RT: 10.60 min Scan# 2959

Delta R.T. -0.00 min

Lab File: VL031860.D

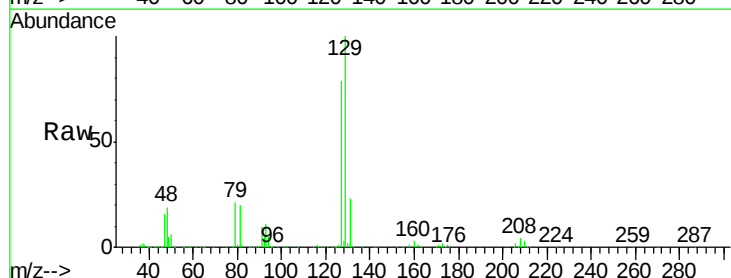
Acq: 12 Apr 2018 10:07

Tgt Ion: 129 Resp: 1780260

Ion Ratio Lower Upper

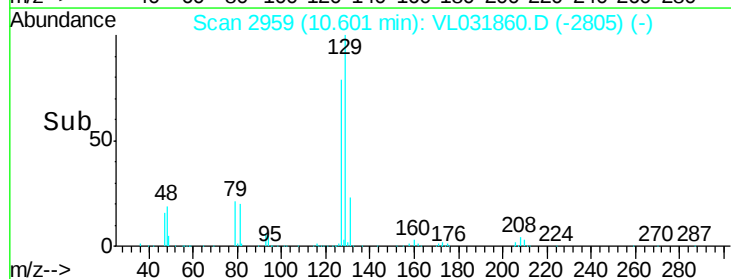
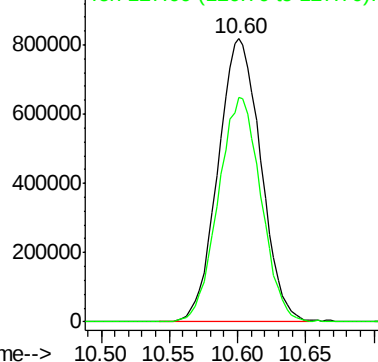
129 100

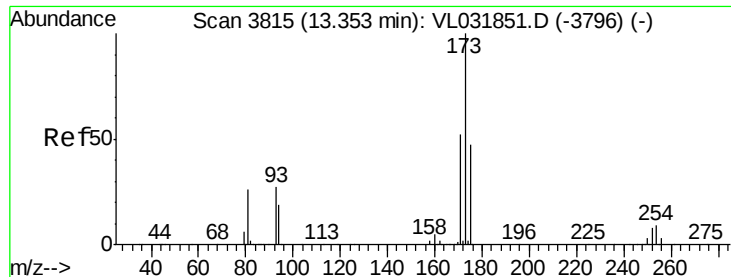
127 79.2 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





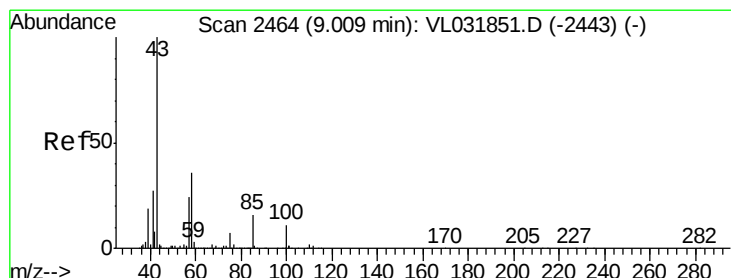
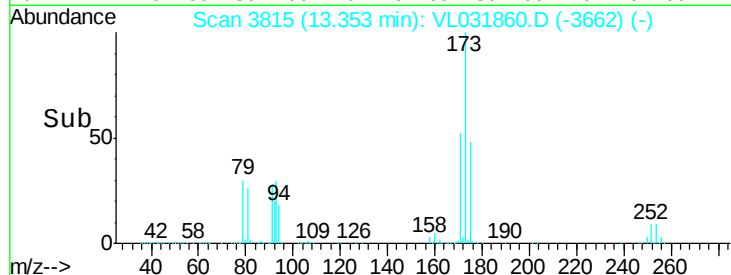
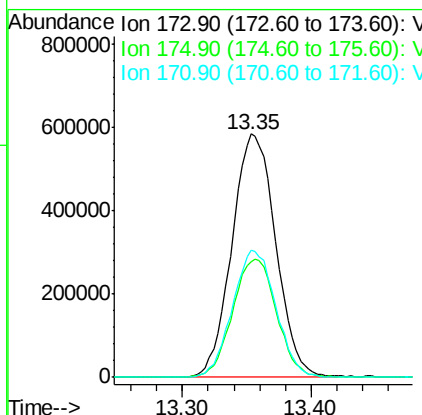
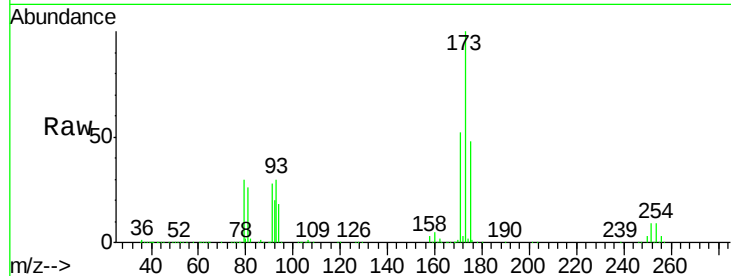
#49
Bromoform
Concen: 9.807 ppbv
RT: 13.35 min Scan# 3815
Delta R.T. -0.01 min
Lab File: VL031860.D
Acq: 12 Apr 2018 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0412ABS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.1	39.0	58.6
171	52.0	41.4	62.0

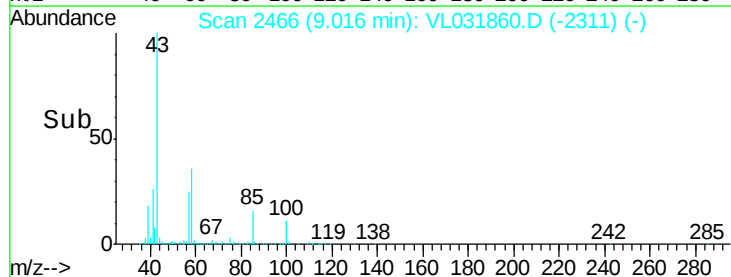
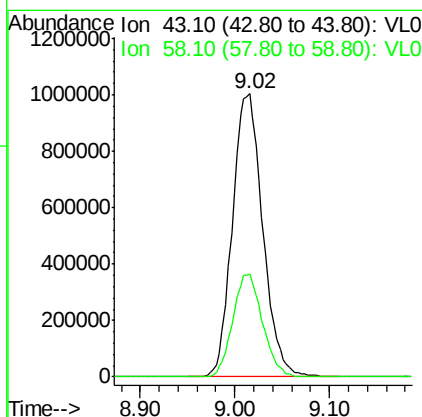
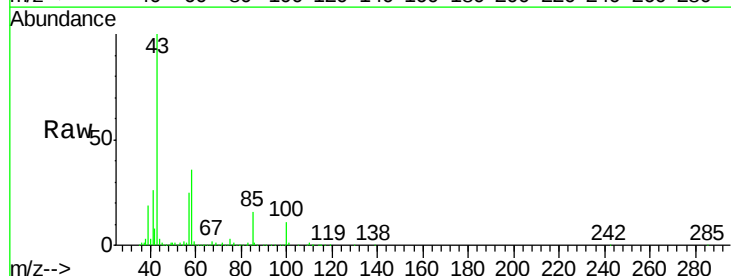
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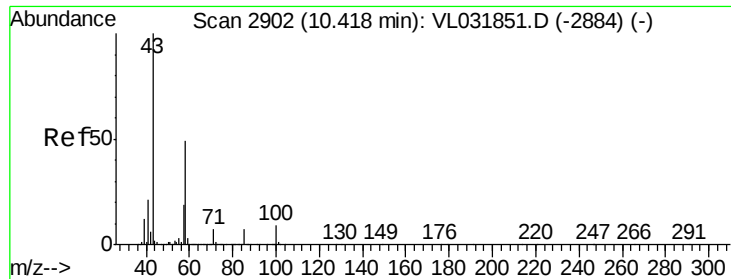
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 9.910 ppbv
RT: 9.02 min Scan# 2466
Delta R.T. -0.00 min
Lab File: VL031860.D
Acq: 12 Apr 2018 10:07

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.9	28.6	43.0





#51

2-Hexanone

Concen: 10.708 ppbv

RT: 10.41 min Scan# 2901

Delta R.T. -0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

Instrument :

MSVOA_L

ClientSampleId :

VL0412ABS01

Tot Ion: 43 Resp: 2102733

Ion Ratio Lower Upper

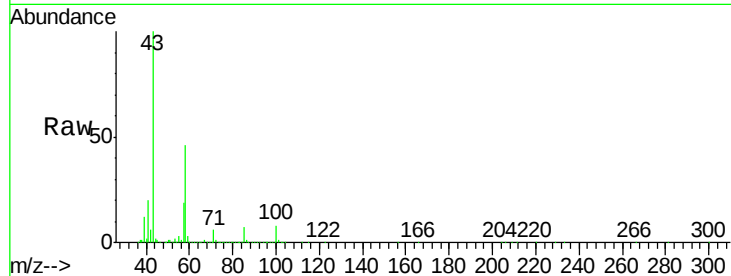
43 100

58 47.3 38.5 57.7

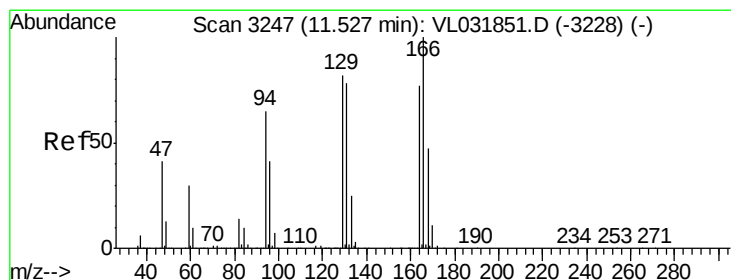
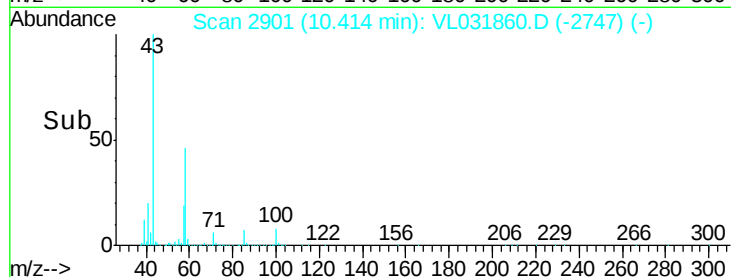
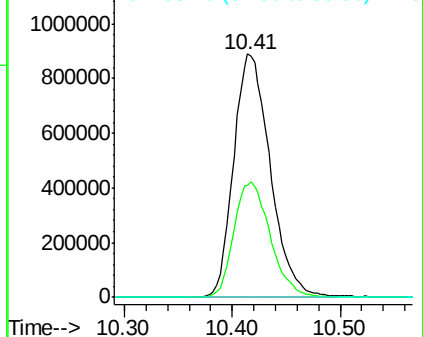
98 0.4 0.2 0.4

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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 9.339 ppbv

RT: 11.52 min Scan# 3246

Delta R.T. -0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

Tgt Ion: 164 Resp: 926025

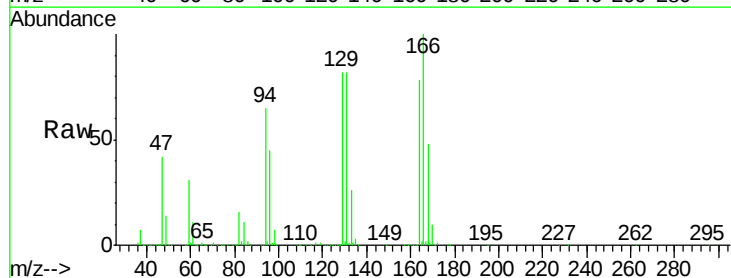
Ion Ratio Lower Upper

164 100

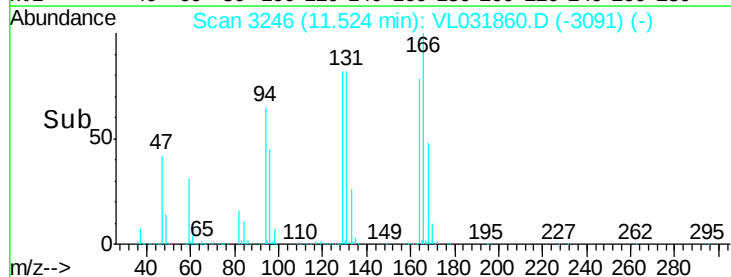
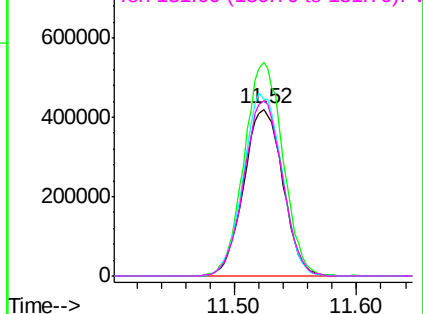
166 127.8 98.2 147.4

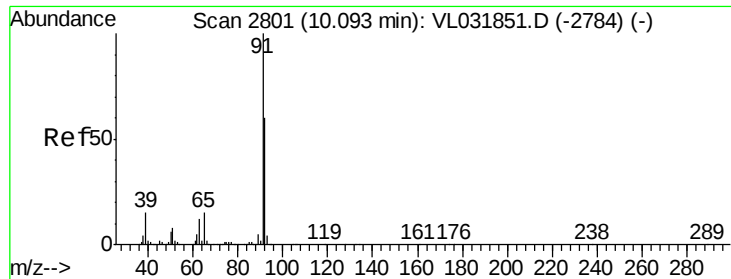
129 105.4 86.5 129.7

131 105.1 82.2 123.2



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 10.350 ppbv

RT: 10.10 min Scan# 2802

Delta R.T. 0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

Instrument :

MSVOA_L

ClientSampleId :

VL0412ABS01

Tot Ion: 91 Resp: 2937579

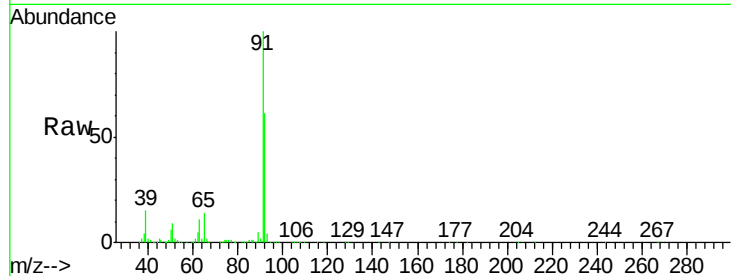
Ion Ratio Lower Upper

91 100

92 59.7 47.4 71.2

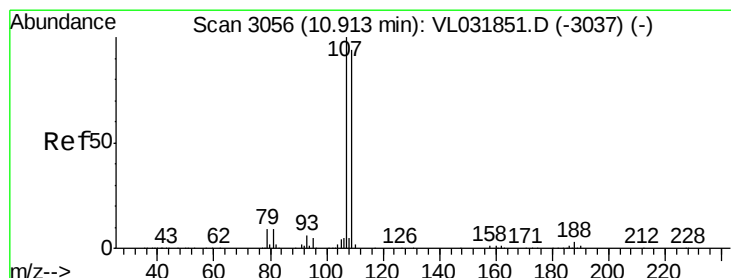
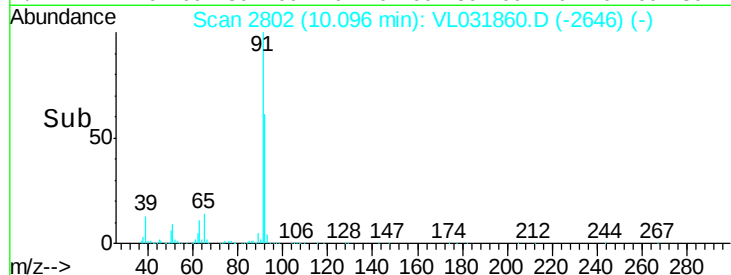
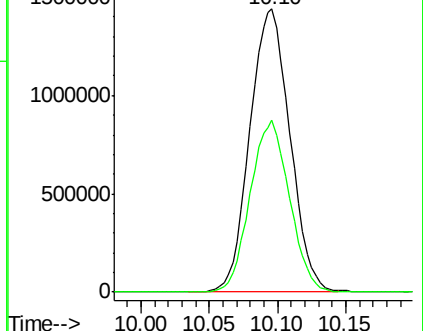
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 9.667 ppbv

RT: 10.91 min Scan# 3055

Delta R.T. -0.00 min

Lab File: VL031860.D

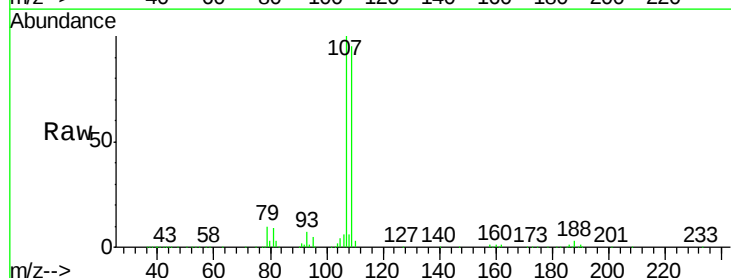
Acq: 12 Apr 2018 10:07

Tgt Ion: 107 Resp: 1577867

Ion Ratio Lower Upper

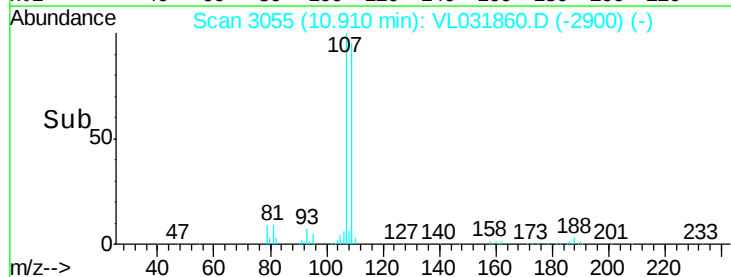
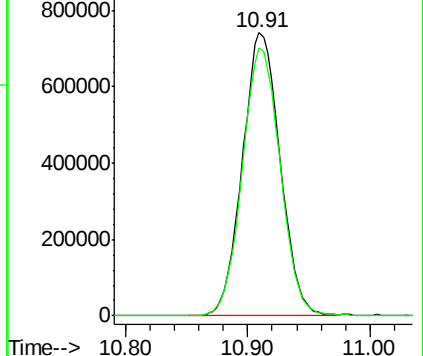
107 100

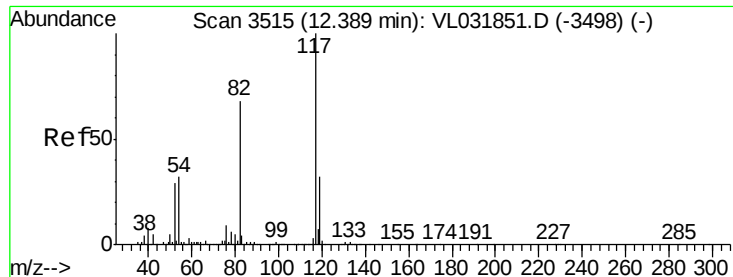
109 94.9 74.6 112.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.39 min Scan# 3516

Delta R.T. -0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

Instrument :

MSVOA_L

ClientSampleId :

VL0412ABS01

Tot Ion:117 Resp: 2982889

Ion Ratio Lower Upper

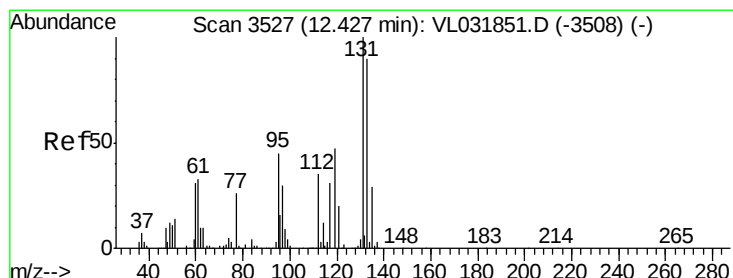
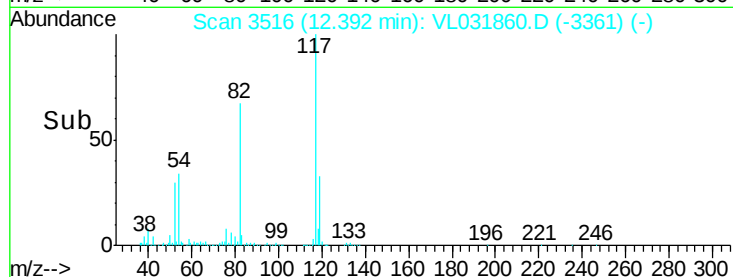
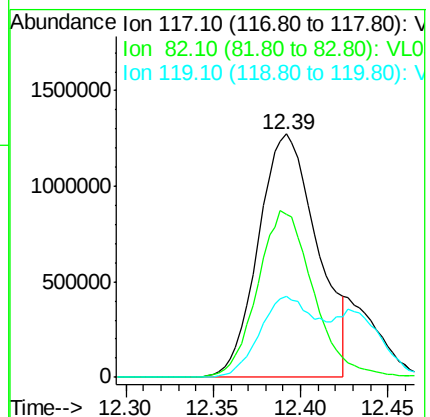
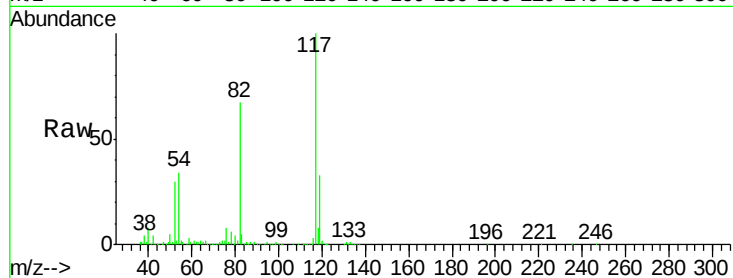
117 100

82 65.7 54.6 81.8

119 33.7 26.0 39.0

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#56

1,1,1,2-Tetrachloroethane

Concen: 8.696 ppbv

RT: 12.43 min Scan# 3529

Delta R.T. 0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

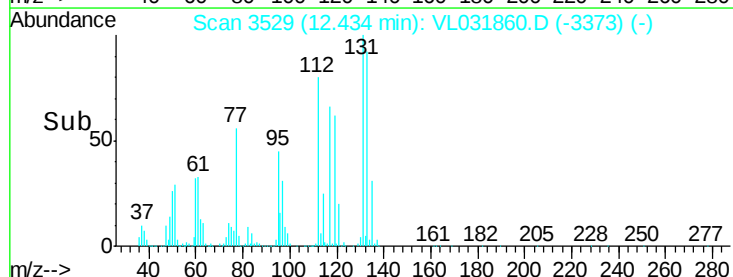
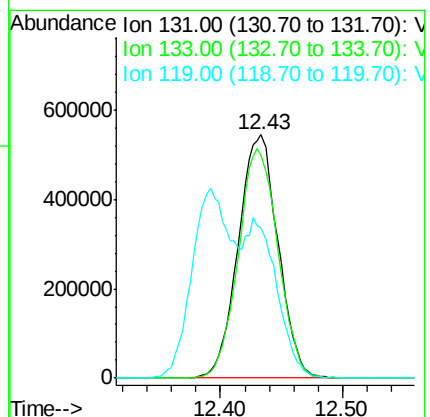
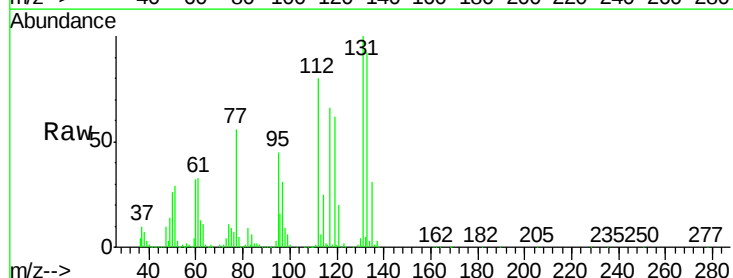
Tgt Ion:131 Resp: 1220712

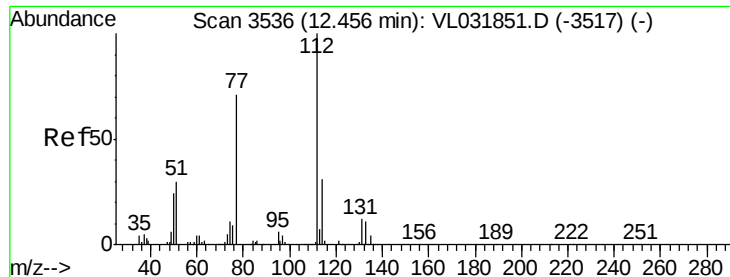
Ion Ratio Lower Upper

131 100

133 95.0 76.1 114.1

119 133.7 106.3 159.5





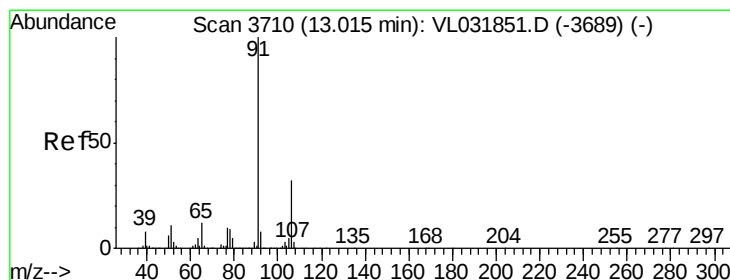
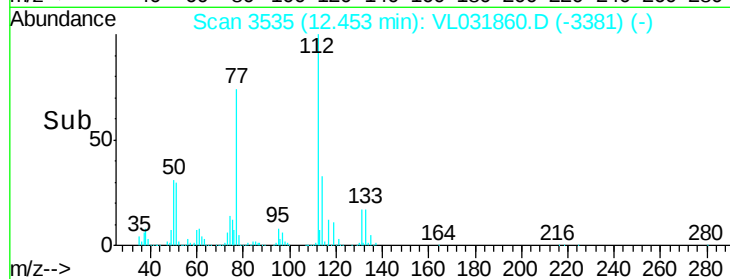
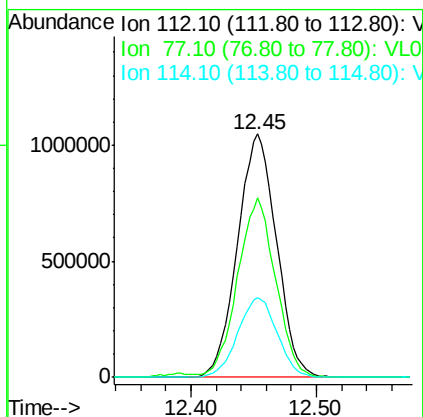
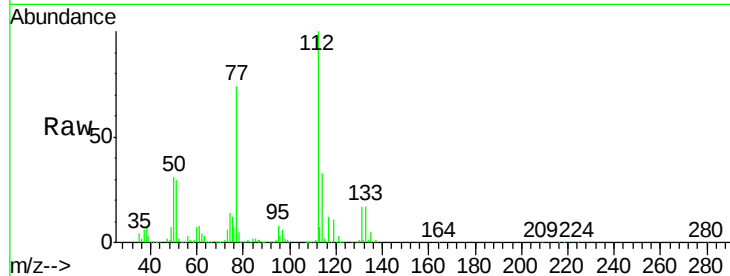
#57
Chlorobenzene
Concen: 8.919 ppbv
RT: 12.45 min Scan# 3535
Delta R.T. -0.00 min
Lab File: VL031860.D
Acq: 12 Apr 2018 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0412ABS01

Tot Ion	Ratio	Lower	Upper
112	100		
77	73.6	57.0	85.6
114	32.9	28.5	34.9

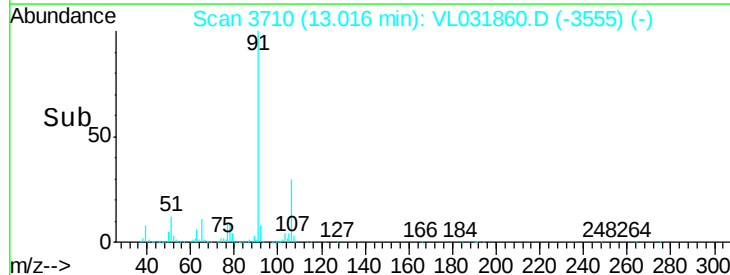
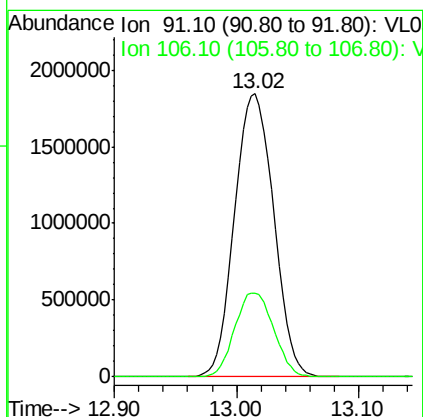
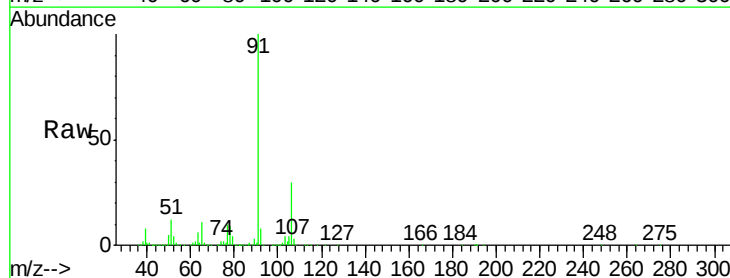
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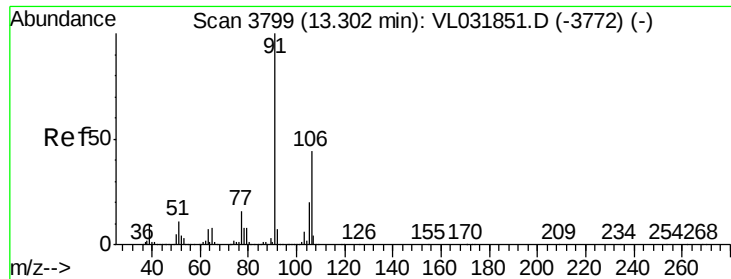
MMDadoda
4/15/2018 3:06:34 PM



#58
Ethyl Benzene
Concen: 9.893 ppbv
RT: 13.02 min Scan# 3710
Delta R.T. -0.00 min
Lab File: VL031860.D
Acq: 12 Apr 2018 10:07

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.6	23.8	35.6





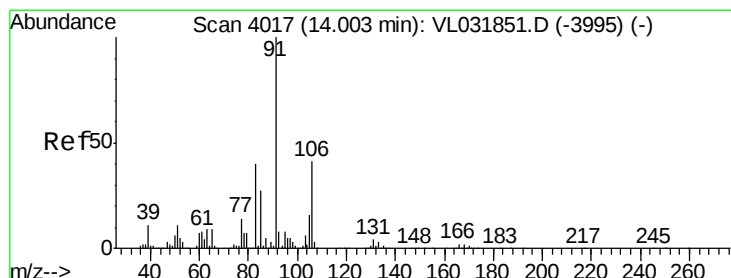
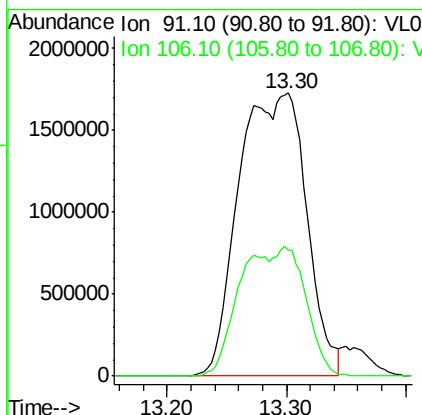
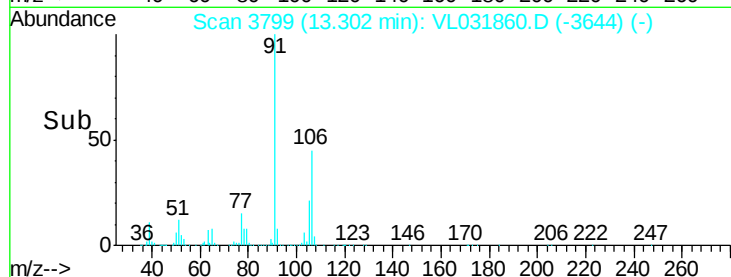
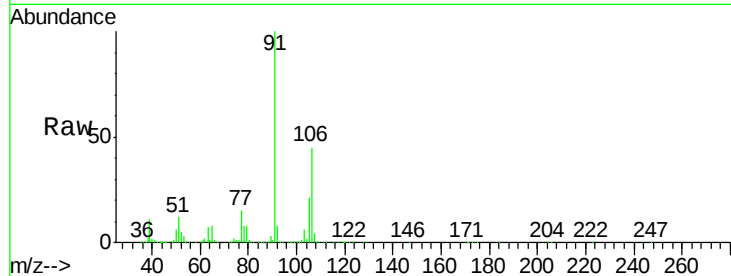
#59
m/p-Xylene
Concen: 18.878 ppbv m
RT: 13.30 min Scan# 3799
Delta R.T. -0.00 min
Lab File: VL031860.D
Acq: 12 Apr 2018 10:07

Instrument :
MSVOA_L
ClientSampleId :
VL0412ABS01

Tot Ion: 91 Resp: 6790082
Ion Ratio Lower Upper
91 100
106 44.5 35.5 53.3

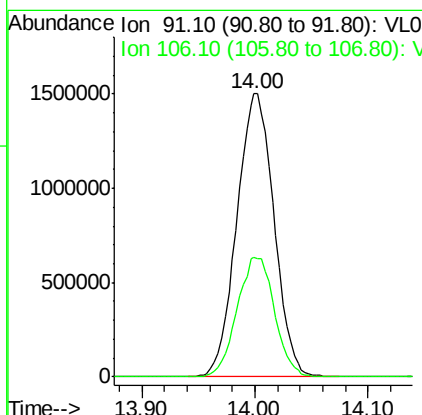
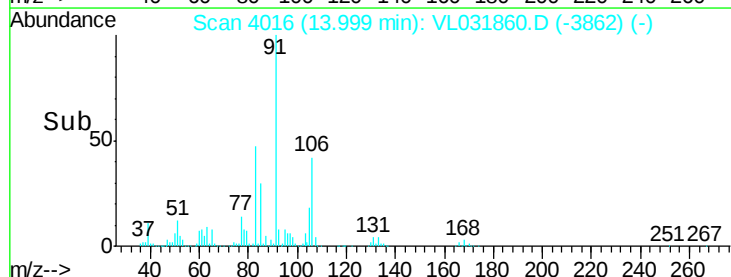
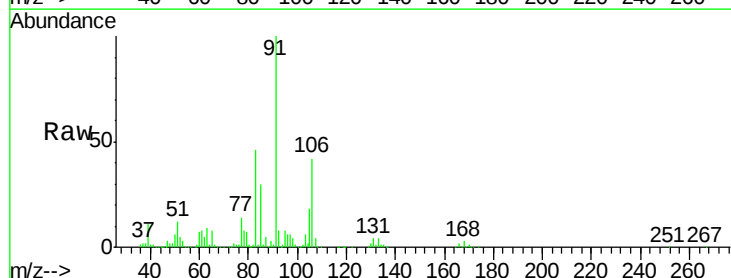
Manual Integrations
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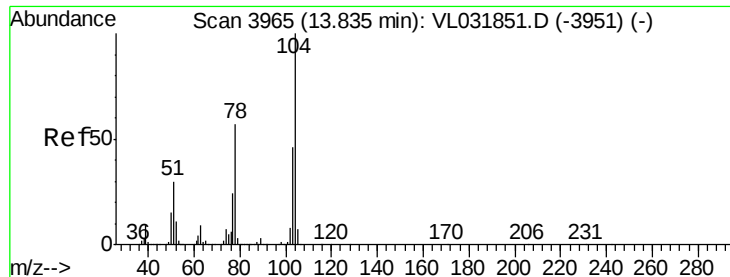
MMDadoda
4/15/2018 3:06:34 PM



#60
o-Xylene
Concen: 9.539 ppbv
RT: 14.00 min Scan# 4016
Delta R.T. -0.00 min
Lab File: VL031860.D
Acq: 12 Apr 2018 10:07

Tgt Ion: 91 Resp: 3429525
Ion Ratio Lower Upper
91 100
106 42.7 21.3 63.9





#61

Stvrene

Concen: 11.681 ppbv

RT: 13.84 min Scan# 3965

Delta R.T. -0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

Instrument :

MSVOA_L

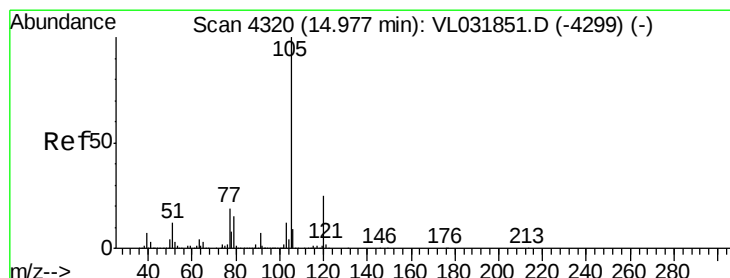
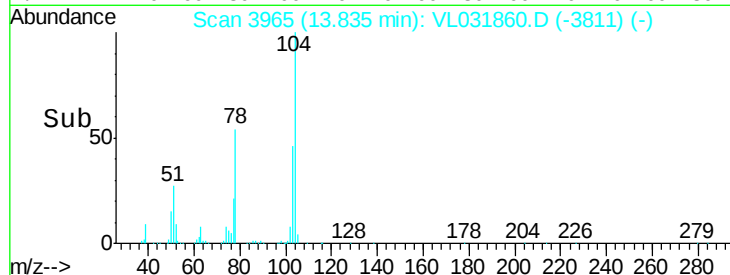
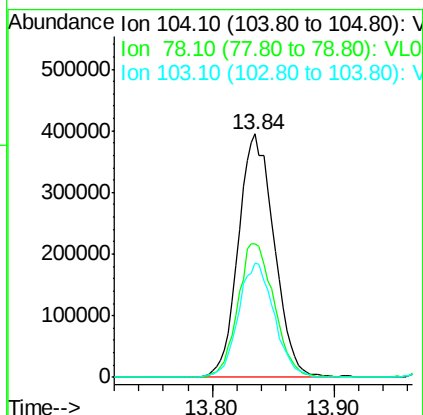
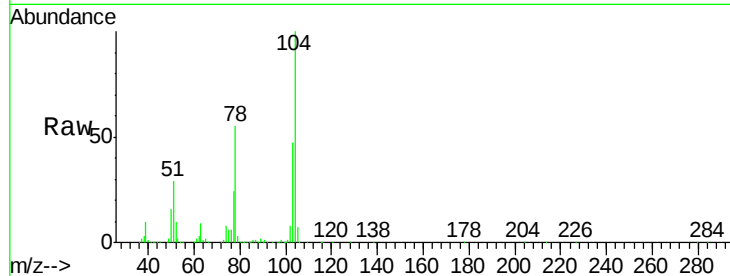
ClientSampleId :

VL0412ABS01

Tot Ion:	104	Resp:	799691
Ion Ratio	Lower	Upper	
104	100		
78	55.9	44.4	66.6
103	47.2	37.9	56.9

Manual Integrations
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4/15/2018 3:06:34 PM



#62

Isopropylbenzene

Concen: 9.187 ppbv

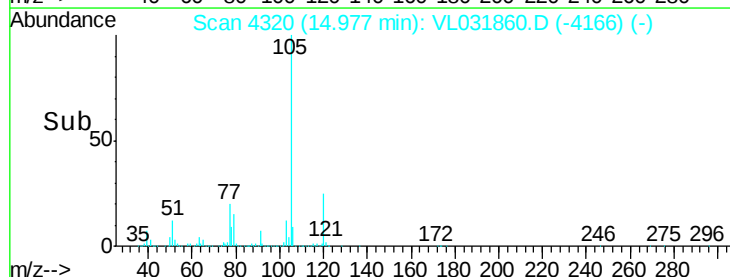
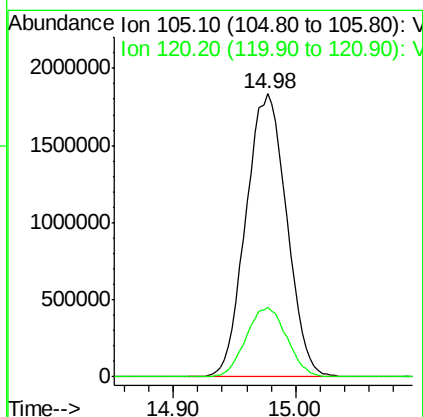
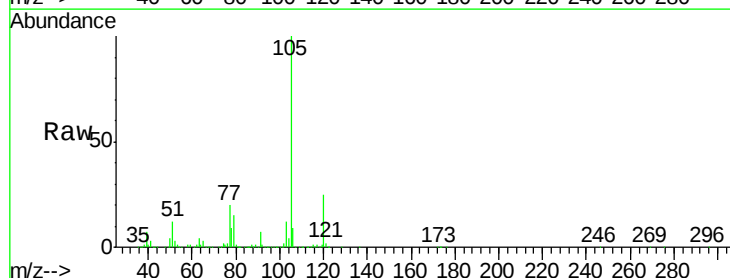
RT: 14.98 min Scan# 4320

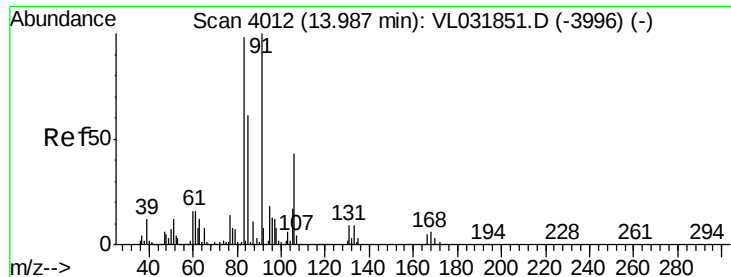
Delta R.T. -0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

Tgt Ion:	105	Resp:	4242179
Ion Ratio	Lower	Upper	
105	100		
120	24.6	19.4	29.2





#63

1,1,2,2-Tetrachloroethane

Concen: 7.982 ppbv

RT: 13.99 min Scan# 4013

Delta R.T. -0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

Instrument :

MSVOA_L

ClientSampleId :

VL0412ABS01

Tot Ion: 83 Resp: 2206390

Ion Ratio Lower Upper

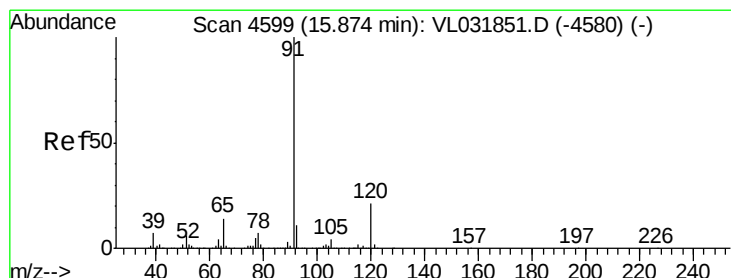
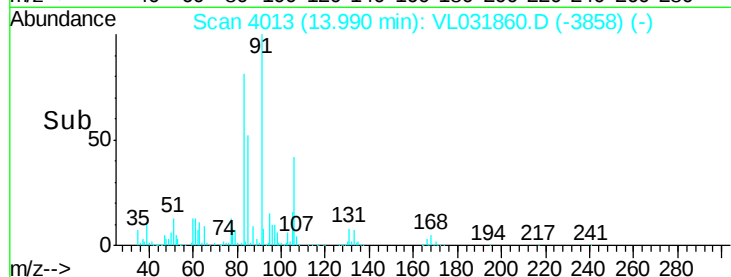
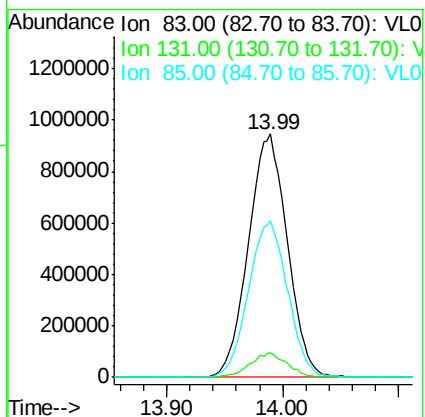
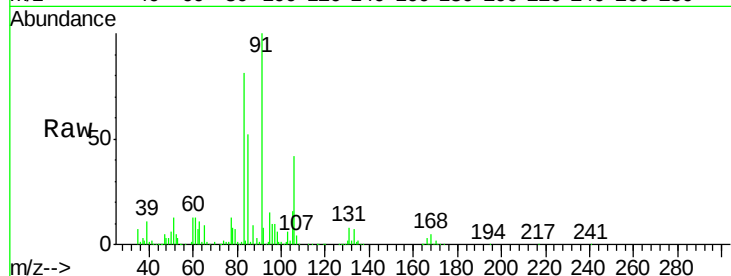
83 100

131 9.6 4.9 14.6

85 64.9 32.2 96.6

Manual Integrations
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4/15/2018 3:06:34 PM



#64

n-propylbenzene

Concen: 9.457 ppbv

RT: 15.87 min Scan# 4599

Delta R.T. -0.00 min

Lab File: VL031860.D

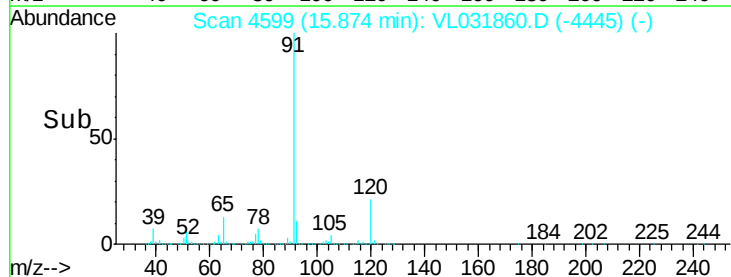
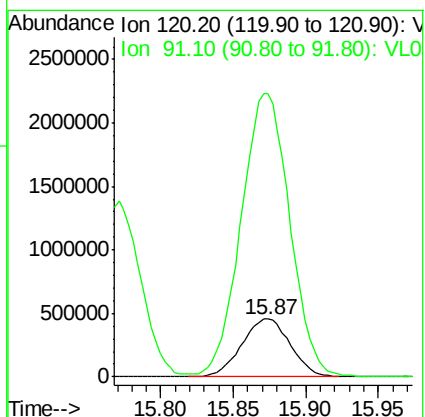
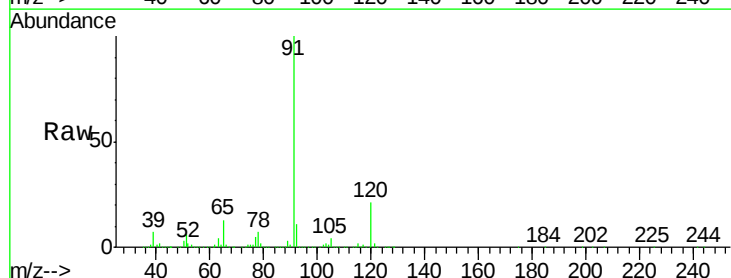
Acq: 12 Apr 2018 10:07

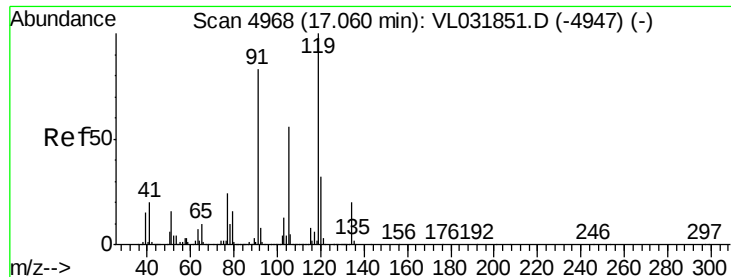
Tgt Ion: 120 Resp: 1061684

Ion Ratio Lower Upper

120 100

91 492.2 393.7 590.5





#65

tert-Butylbenzene

Concen: 8.951 ppbv

RT: 17.06 min Scan# 4968

Delta R.T. -0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

Instrument :

MSVOA_L

ClientSampleId :

VL0412ABS01

Tot Ion:119 Resp: 3555261

Ion Ratio Lower Upper

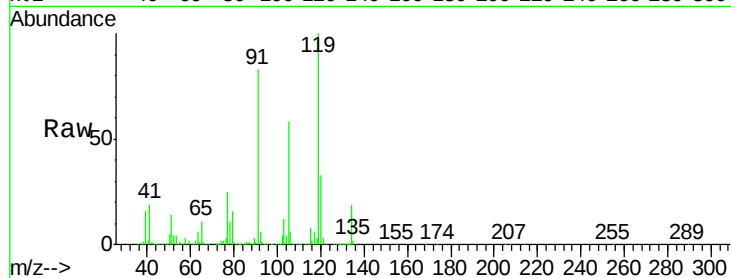
119 100

91 86.3 69.4 104.0

134 19.2 15.4 23.2

Manual Integrations
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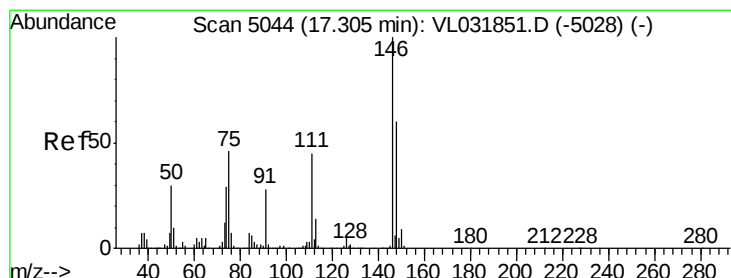
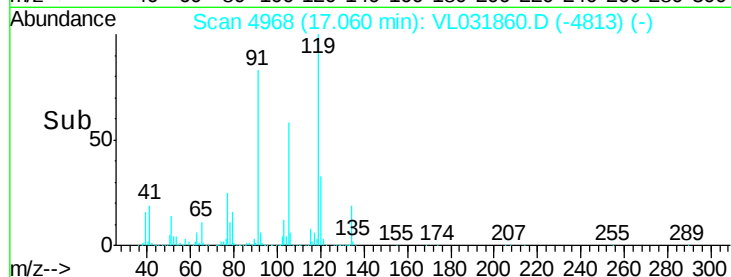
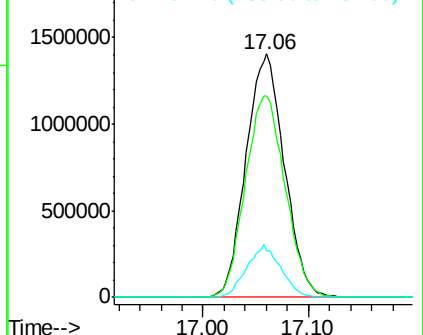
MMDadoda
4/15/2018 3:06:34 PM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 9.716 ppbv

RT: 17.31 min Scan# 5045

Delta R.T. -0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

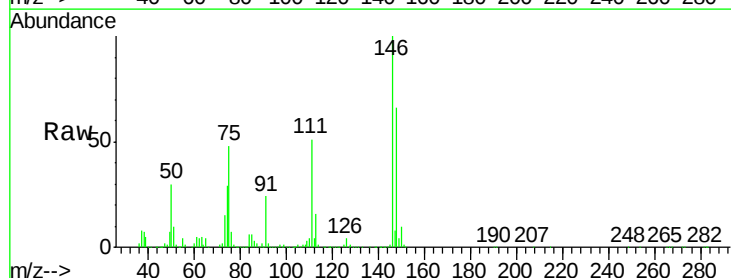
Tgt Ion: 91 Resp: 347715

Ion Ratio Lower Upper

91 100

126 15.7 12.6 19.0

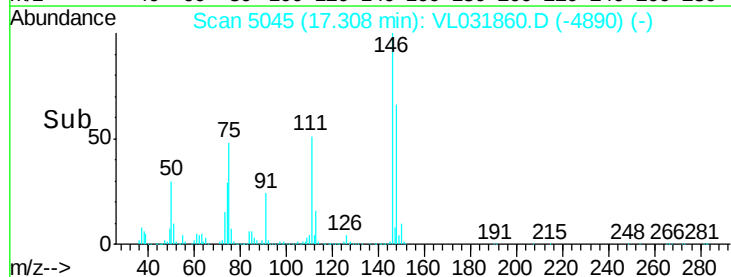
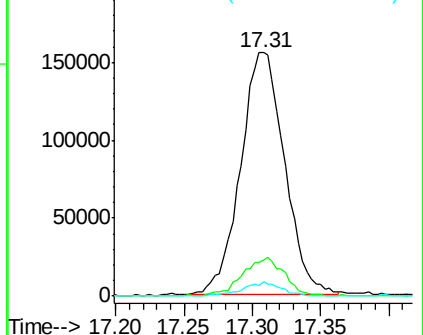
128 5.1 4.0 6.0

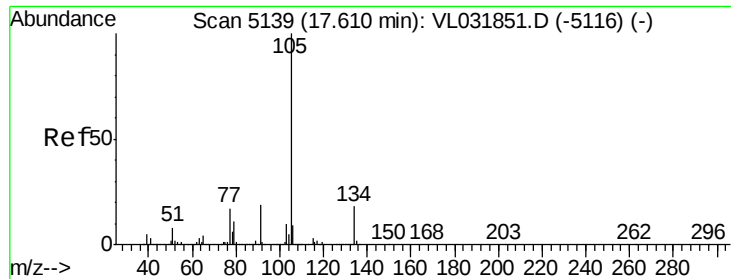


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.742 ppbv

RT: 17.61 min Scan# 5138

Delta R.T. -0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

Instrument :

MSVOA_L

ClientSampleId :

VL0412ABS01

Tot Ion: 105 Resp: 5002240

Ion Ratio Lower Upper

105 100

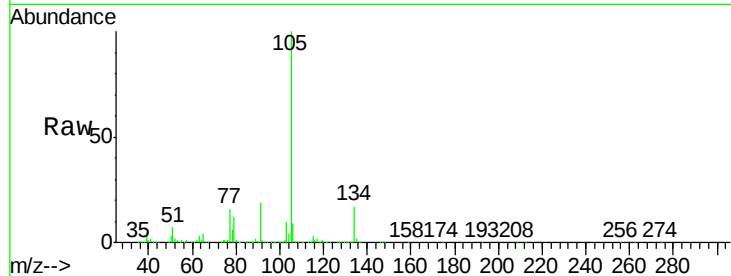
134 17.7

14.2 21.2

Manual Integrations
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MMDadoda

4/15/2018 3:06:34 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

2500000

2000000

1500000

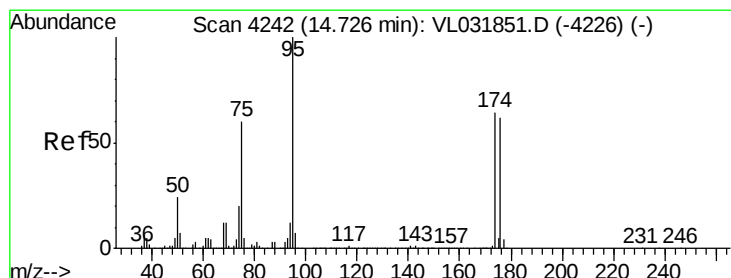
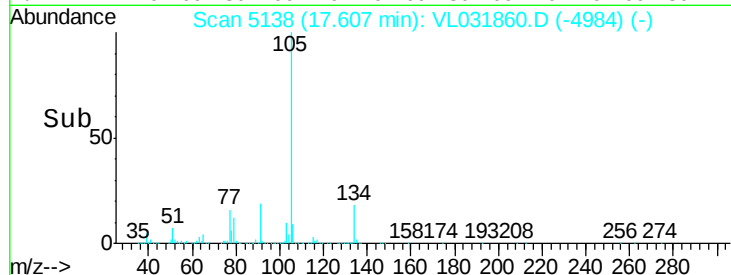
1000000

500000

0

17.50 17.60 17.70

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.785 ppbv

RT: 14.73 min Scan# 4242

Delta R.T. -0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

Tgt Ion: 95 Resp: 2346853

Ion Ratio Lower Upper

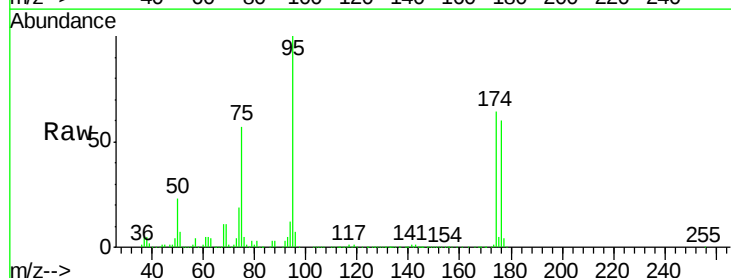
95 100

174 64.6

175 4.8

52.3 78.5

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

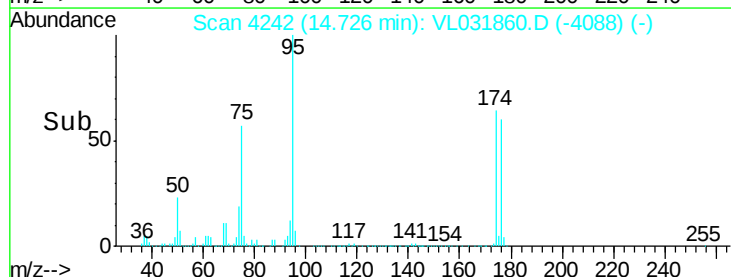
1000000

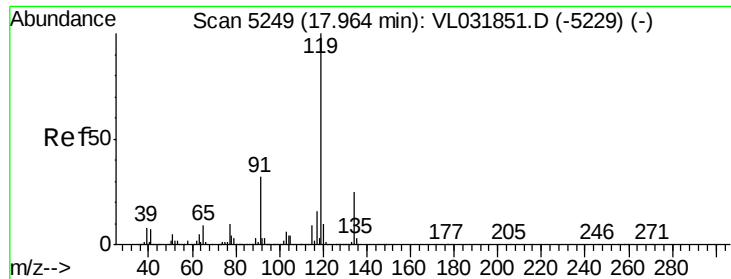
500000

0

14.60 14.70 14.80

Time-->





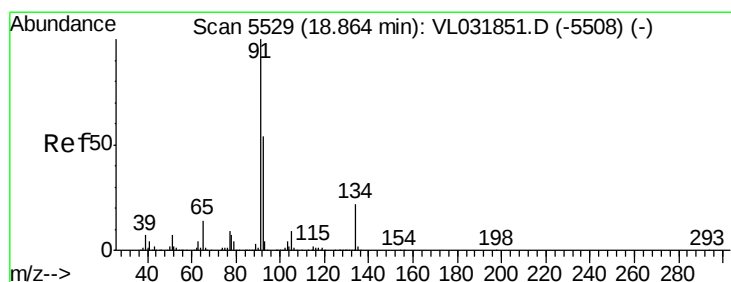
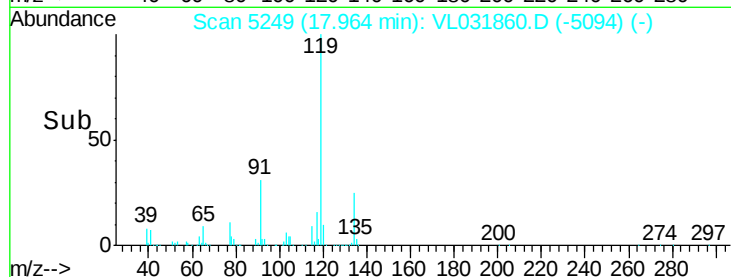
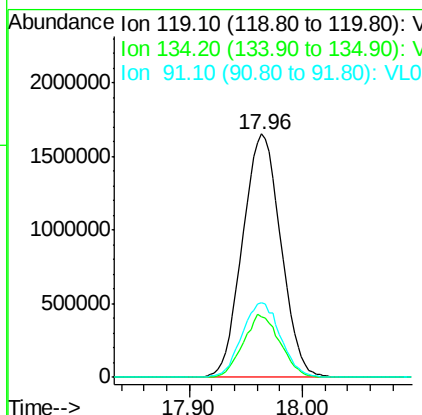
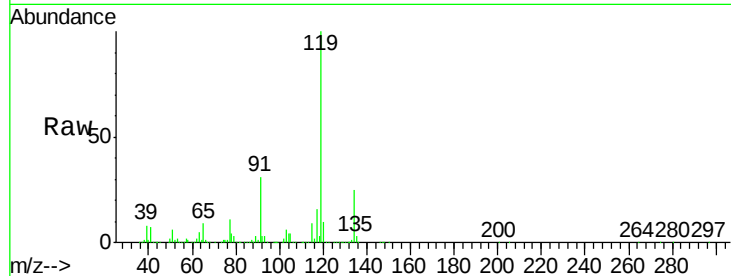
#69
 p-Isopropyltoluene
 Concen: 8.789 ppbv
 RT: 17.96 min Scan# 5249
 Delta R.T. -0.00 min
 Lab File: VL031860.D
 Acq: 12 Apr 2018 10:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0412ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.8	20.0	30.0
91	31.0	24.9	37.3

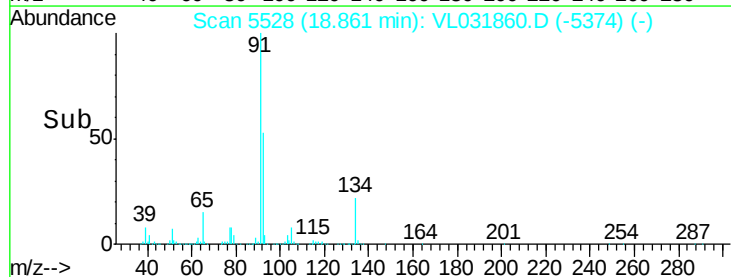
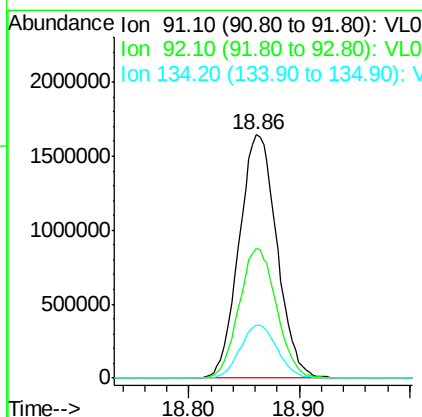
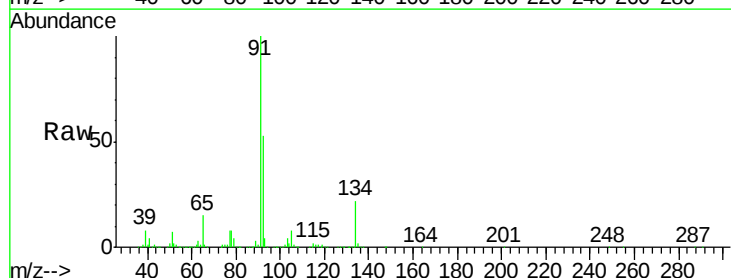
Manual Integrations
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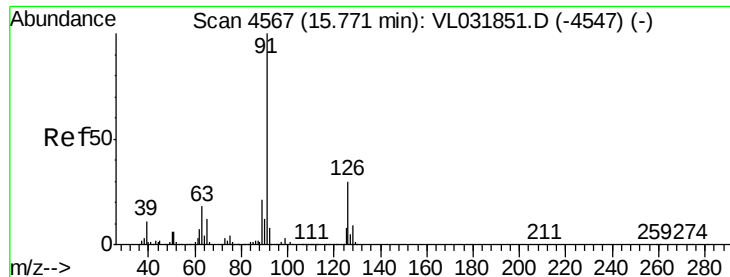
MMDadoda
 4/15/2018 3:06:34 PM



#70
 n-Butylbenzene
 Concen: 8.440 ppbv
 RT: 18.86 min Scan# 5528
 Delta R.T. -0.00 min
 Lab File: VL031860.D
 Acq: 12 Apr 2018 10:07

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.9	42.2	63.4
134	21.5	17.4	26.0





#71

2-Chlorotoluene

Concen: 9.524 ppbv

RT: 15.77 min Scan# 4567

Delta R.T. 0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

Instrument :

MSVOA_L

ClientSampleId :

VL0412ABS01

Tot Ion: 91 Resp: 3179947

Ion Ratio Lower Upper

91 100

126 28.7

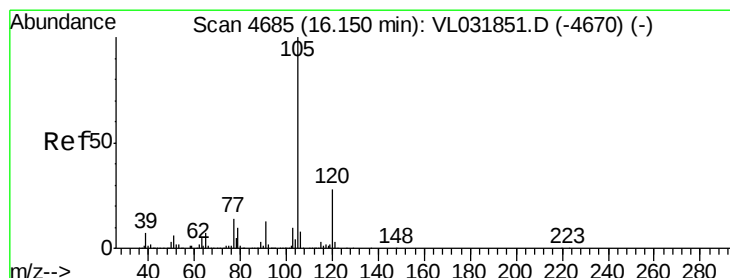
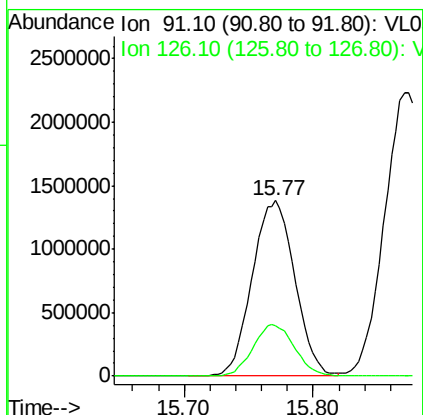
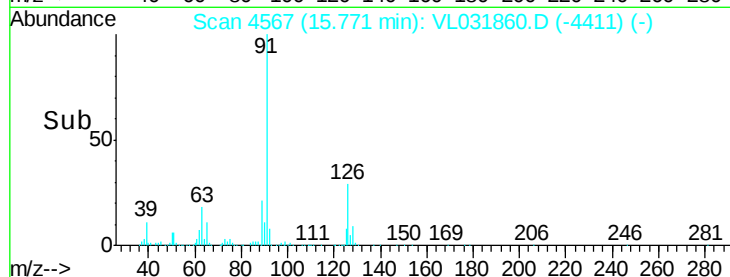
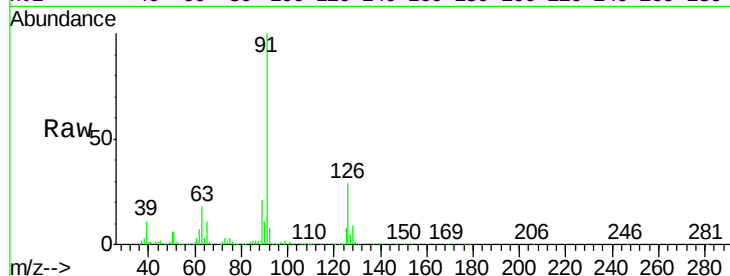
11.6

46.2

Manual Integrations
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4/15/2018 3:06:34 PM



#72

4-Ethyltoluene

Concen: 9.576 ppbv

RT: 16.15 min Scan# 4684

Delta R.T. -0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

Tgt Ion: 105 Resp: 3518415

Ion Ratio Lower Upper

105 100

120 28.3

22.7

34.1

91 13.2

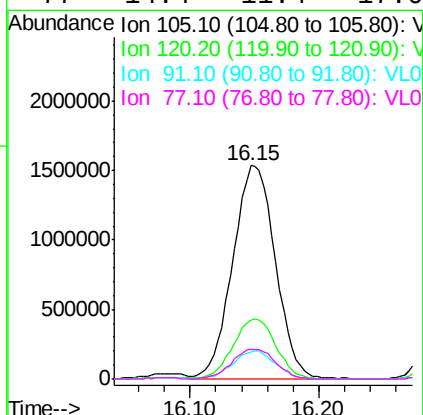
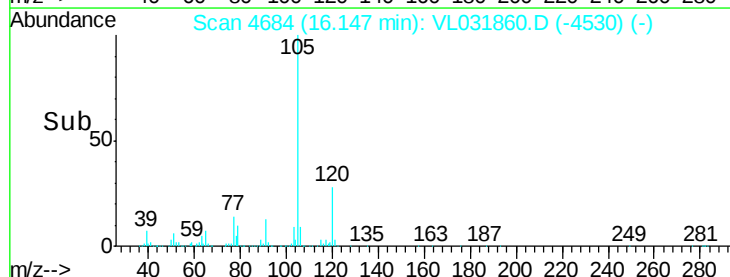
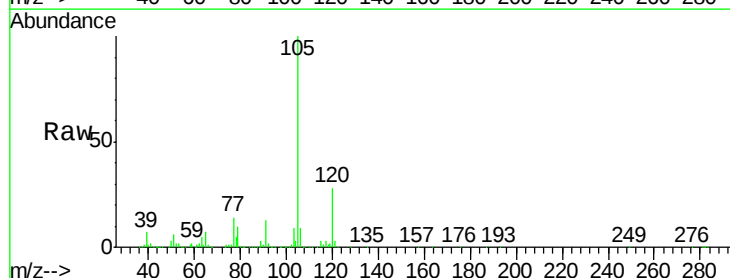
10.6

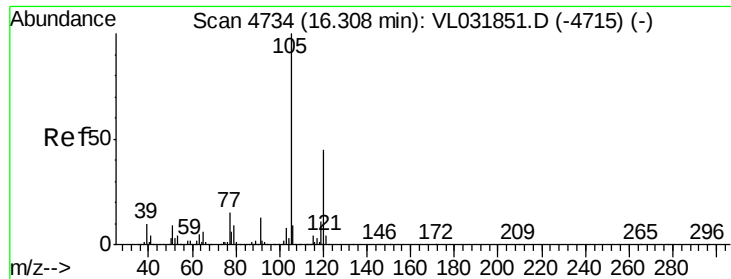
16.0

77 14.4

11.4

17.0





#73

1,3,5-Trimethylbenzene

Concen: 9.211 ppbv

RT: 16.31 min Scan# 4734

Delta R.T. -0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

Instrument :

MSVOA_L

ClientSampleId :

VL0412ABS01

Tot Ion:105 Resp: 3097936

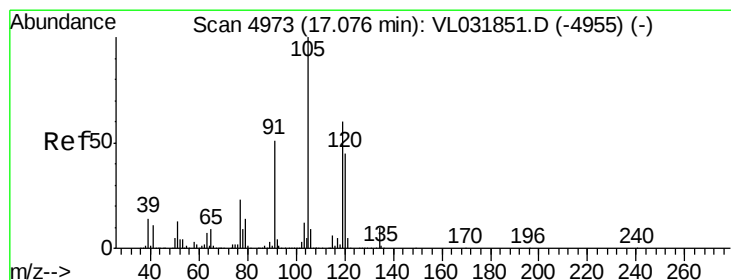
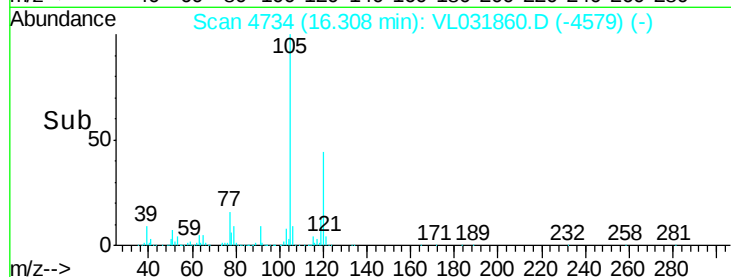
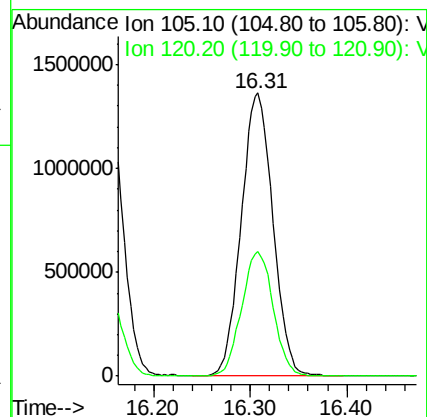
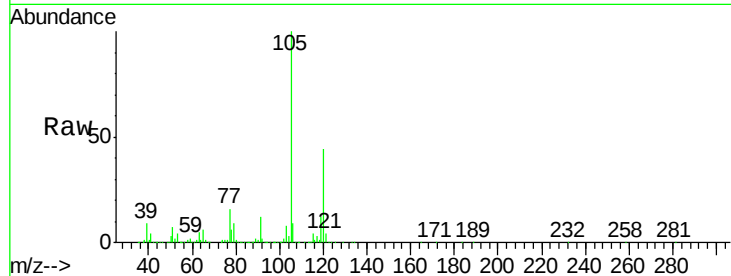
Ion Ratio Lower Upper

105 100

120 43.9 35.3 52.9

Manual Integrations
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4/15/2018 3:06:34 PM



#74

1,2,4-Trimethylbenzene

Concen: 8.578 ppbv

RT: 17.08 min Scan# 4973

Delta R.T. -0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

Tgt Ion:105 Resp: 3220775

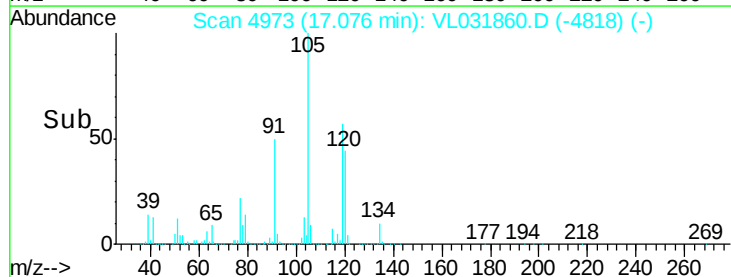
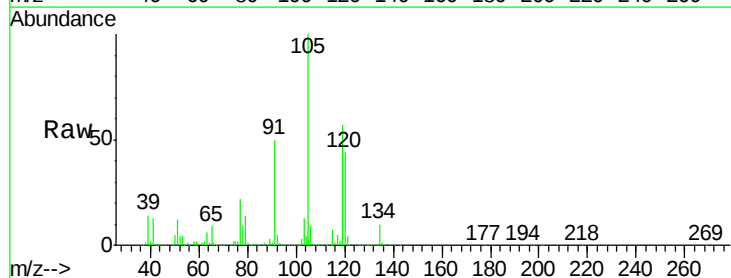
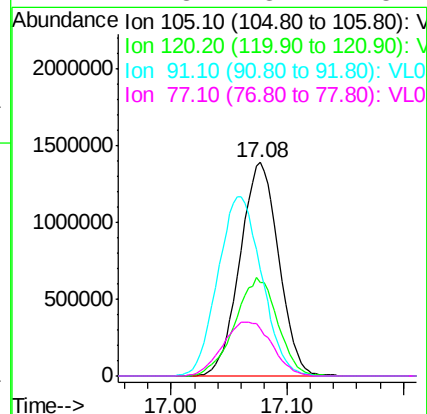
Ion Ratio Lower Upper

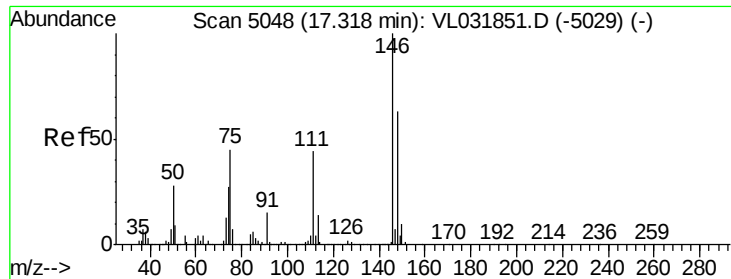
105 100

120 43.8 37.0 55.4

91 49.6 43.0 64.4

77 22.3 18.7 28.1





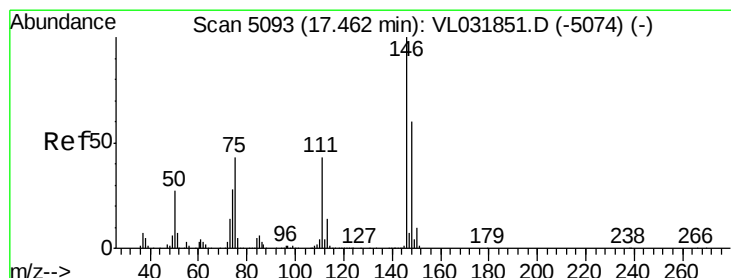
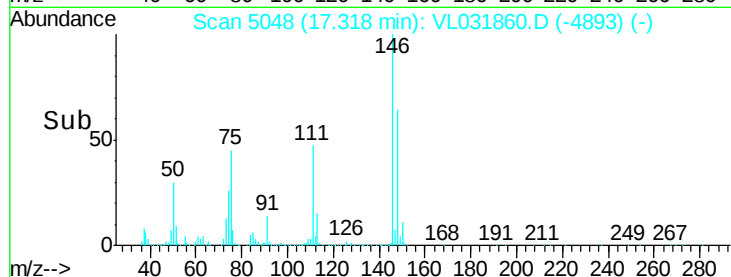
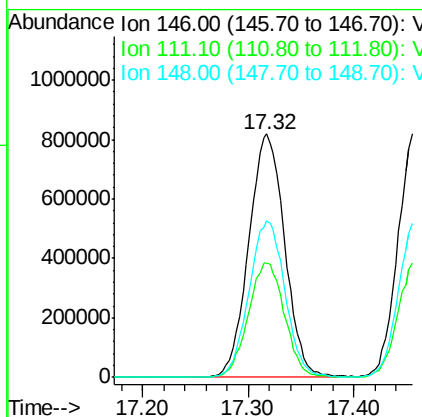
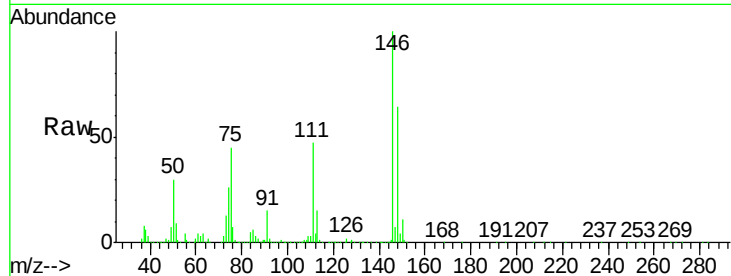
#75
 1,3-Dichlorobenzene
 Concen: 8.435 ppbv
 RT: 17.32 min Scan# 5048
 Delta R.T. -0.00 min
 Lab File: VL031860.D
 Acq: 12 Apr 2018 10:07

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0412ABS01

Tot Ion:146 Resp: 1942197
 Ion Ratio Lower Upper
 146 100
 111 47.5 23.8 71.4
 148 64.3 32.0 96.2

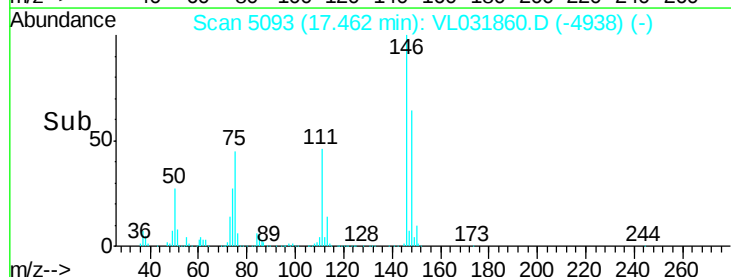
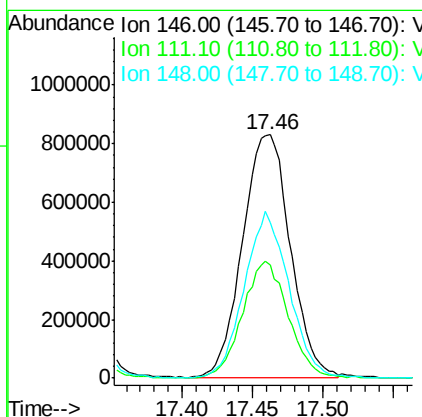
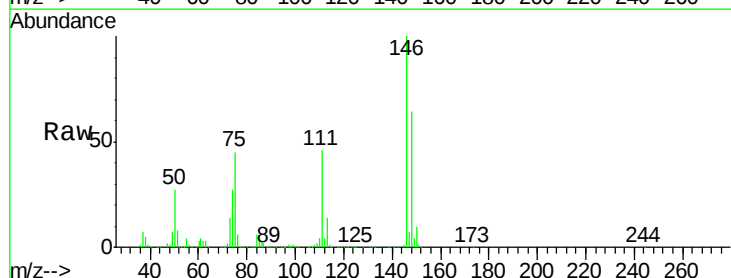
Manual Integrations
 APPROVED

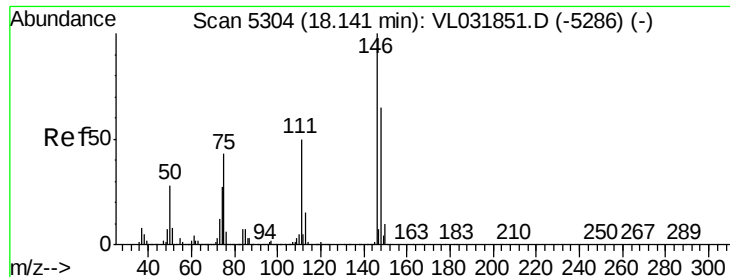
MMDadoda
 4/15/2018 3:06:34 PM



#76
 1,4-Dichlorobenzene
 Concen: 8.774 ppbv
 RT: 17.46 min Scan# 5093
 Delta R.T. -0.00 min
 Lab File: VL031860.D
 Acq: 12 Apr 2018 10:07

Tgt Ion:146 Resp: 1959889
 Ion Ratio Lower Upper
 146 100
 111 46.4 22.9 68.7
 148 64.7 32.0 96.0





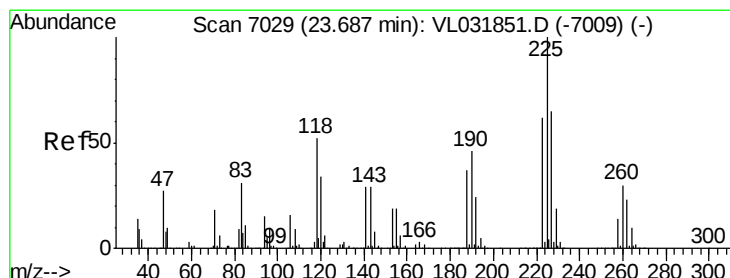
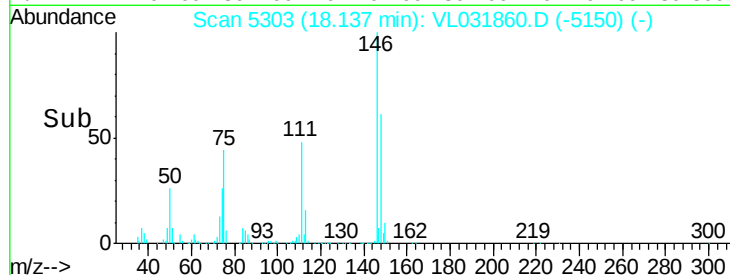
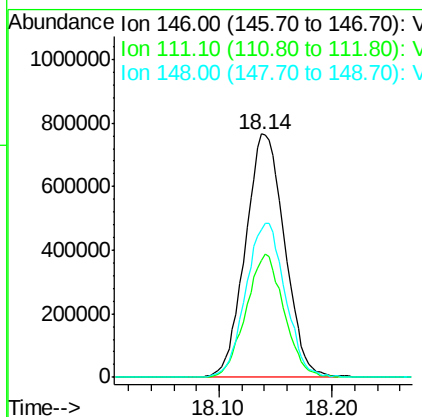
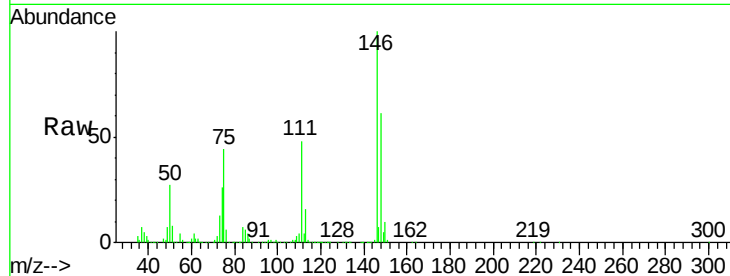
#77
 1,2-Dichlorobenzene
 Concen: 8.144 ppbv
 RT: 18.14 min Scan# 5303
 Delta R.T. -0.01 min
 Lab File: VL031860.D
 Acq: 12 Apr 2018 10:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0412ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.9	24.3	72.8
148	63.7	31.8	95.3

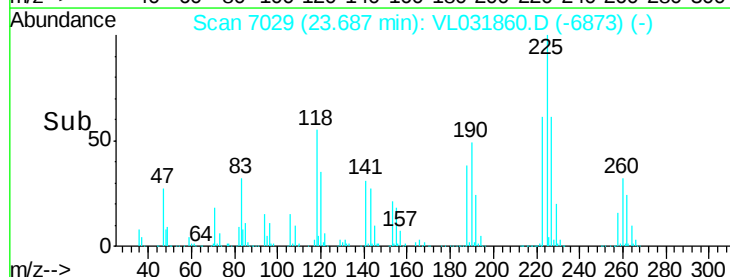
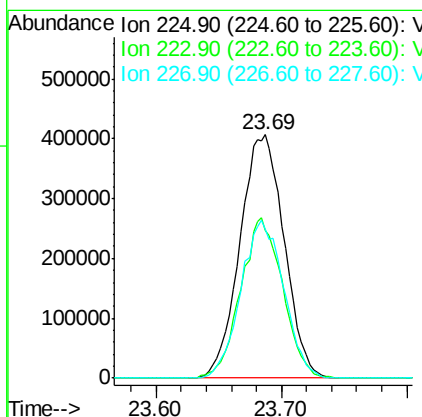
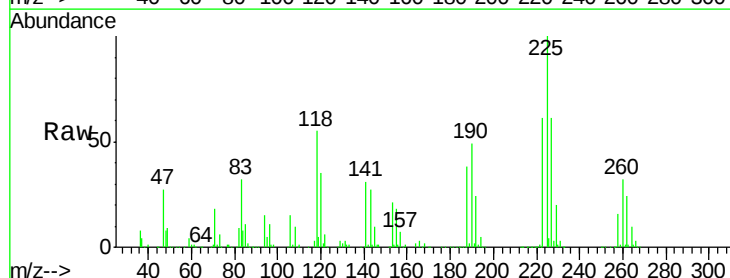
Manual Integrations
 APPROVED

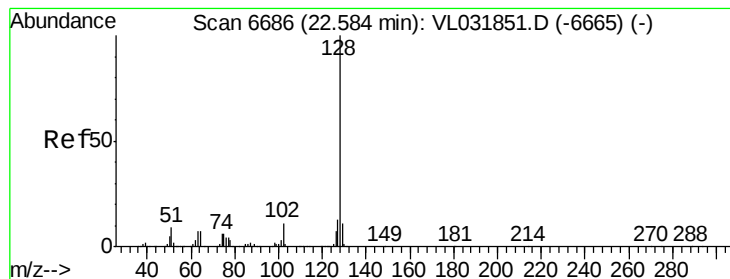
MMDadoda
 4/15/2018 3:06:34 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 11.439 ppbv
 RT: 23.69 min Scan# 7029
 Delta R.T. 0.00 min
 Lab File: VL031860.D
 Acq: 12 Apr 2018 10:07

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.5	50.6	76.0
227	63.0	52.2	78.4





#79

Naphthalene

Concen: 10.059 ppbv

RT: 22.59 min Scan# 6687

Delta R.T. -0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

Instrument :

MSVOA_L

ClientSampleId :

VL0412ABS01

Tot Ion:128 Resp: 2125757

Ion Ratio Lower Upper

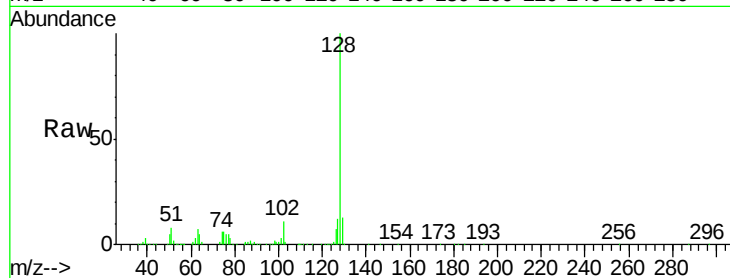
128 100

127 12.3 10.2 15.4

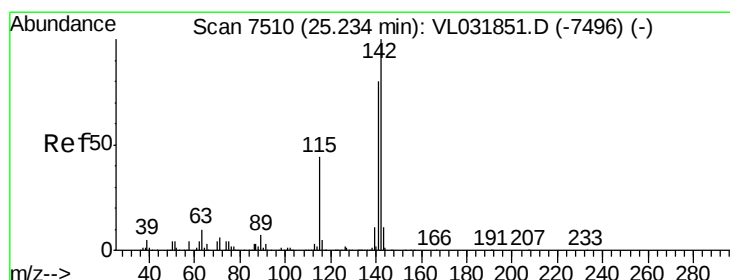
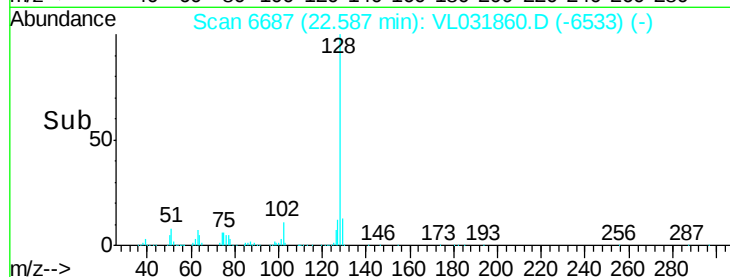
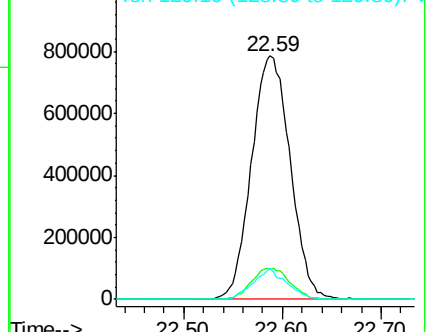
129 12.6 9.4 14.2

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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 15.558 ppbv

RT: 25.23 min Scan# 7510

Delta R.T. 0.00 min

Lab File: VL031860.D

Acq: 12 Apr 2018 10:07

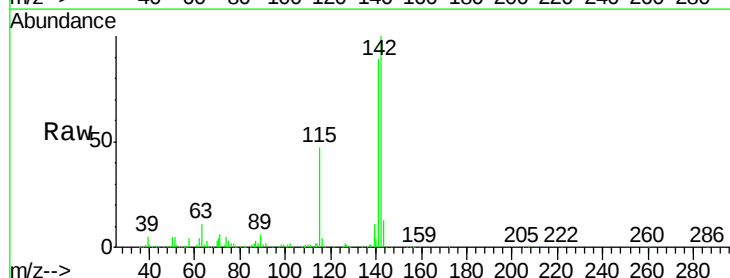
Tgt Ion:142 Resp: 641803

Ion Ratio Lower Upper

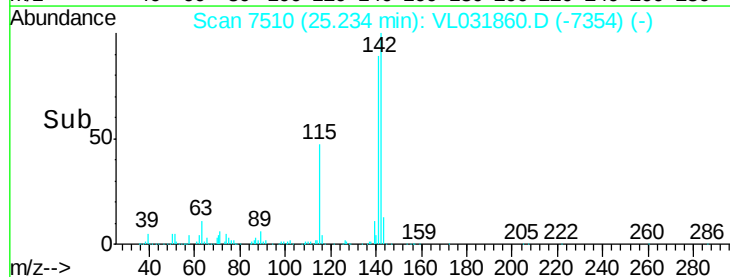
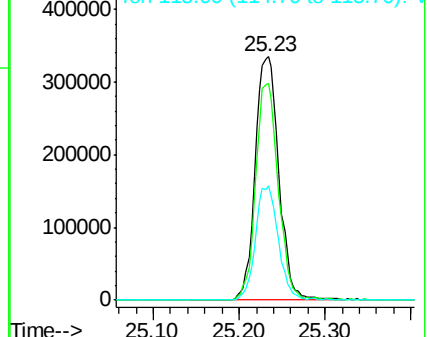
142 100

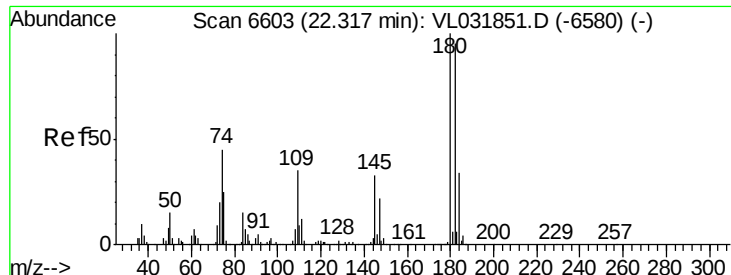
141 85.7 67.0 100.4

115 45.8 35.3 52.9



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 8.957 ppbv
 RT: 22.32 min Scan# 6603
 Delta R.T. 0.01 min
 Lab File: VL031860.D
 Acq: 12 Apr 2018 10:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0412ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.3	114.5
184	29.6	24.2	36.2

Manual Integrations
 APPROVED

MMDadoda
 4/15/2018 3:06:34 PM

