

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL113018\
 Data File : VL032846.D
 Acq On : 30 Nov 2018 11:16
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 12/3/2018 4:14:55 PM

Quant Time: Dec 01 02:30:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 1
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1427537	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3709097	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3808444	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2819895	9.90	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.08	85	1883525	9.179	ppbv	98
3) Chlorodifluoromethane	3.02	51	1070626	9.460	ppbv	99
4) Chloromethane	3.17	50	560007	8.924	ppbv	98
5) Vinyl Chloride	3.30	62	587743	8.839	ppbv	96
6) Bromomethane	3.52	94	396532	9.748	ppbv	90
7) Chloroethane	3.61	64	230469	9.616	ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	1509010	9.332	ppbv	98
9) Propene	3.04	41	413925	9.139	ppbv	100
10) Heptane	8.26	43	1762798	10.195	ppbv	100
11) Trichlorofluoromethane	4.01	101	2374393	12.278	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1677211	10.618	ppbv	96
13) Ethanol	3.66	45	107572	7.251	ppbv	97
14) Bromoethene	3.80	108	523742	9.994	ppbv	100
15) Acetone	3.91	43	1106891	8.491	ppbv	100
16) 1,3-Butadiene	3.37	39	503572	9.975	ppbv	96
17) tert-Butyl alcohol	4.36	59	442963	10.834	ppbv	99
18) 1,1-Dichloroethene	4.36	96	790524	10.178	ppbv	94
19) Isopropyl Alcohol	4.03	45	1067241	12.289	ppbv	99
20) Methylene Chloride	4.42	84	706500	10.468	ppbv	98
21) Allyl Chloride	4.49	41	1109149	10.124	ppbv	98
22) trans-1,2-Dichloroethene	4.97	96	789415	10.408	ppbv	96
23) Vinyl Acetate	5.16	43	2316522	9.748	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1839034	9.734	ppbv	99
25) Ethyl Acetate	5.78	43	2938778	9.672	ppbv	99
26) Hexane	5.79	57	1359413	10.051	ppbv	99
27) Carbon Disulfide	4.63	76	1900740	11.083	ppbv	100
28) Methyl tert-Butyl Ether	5.12	73	2270401	10.526	ppbv	99
29) Chloroform	5.86	83	2464878	10.225	ppbv	97
30) Cyclohexane	7.26	84	1223682	10.344	ppbv	99
31) cis-1,2-Dichloroethene	5.65	61	1400537	10.299	ppbv	99
32) 1,1,1-Trichloroethane	6.63	97	2506407	9.485	ppbv	100
34) 2-Butanone	5.34	43	1841457	9.572	ppbv	99
35) Carbon Tetrachloride	7.15	117	2759229	9.254	ppbv	99
36) Benzene	7.02	78	2879300	9.748	ppbv	97
37) 1,2-Dichloroethane	6.42	62	1912526	9.619	ppbv	99
38) Trichloroethene	7.97	130	1209047	10.115	ppbv	97
39) 1,2-Dichloropropane	7.75	63	1071179	9.519	ppbv	97
40) 1,4-Dioxane	7.96	88	409078	10.178	ppbv	87
41) Tetrahydrofuran	6.16	42	1096516	9.937	ppbv	99
42) Bromodichloromethane	7.93	83	2640329	9.796	ppbv	97
43) Methyl Methacrylate	8.15	69	1148522	10.416	ppbv	98

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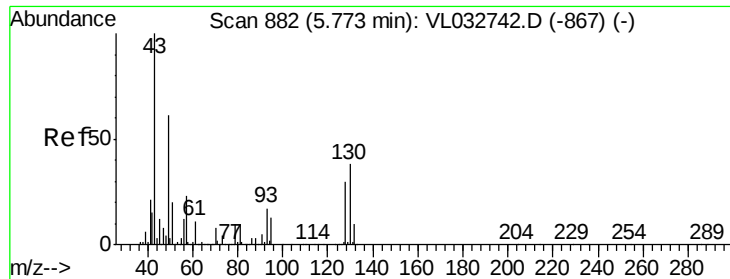
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	4871937	9.871	ppbv	100
45) t-1,3-Dichloropropene	9.43	75	1726304	11.667	ppbv	97
46) cis-1,3-Dichloropropene	8.85	75	1934684	10.823	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	1333155	10.019	ppbv	95
48) Dibromochloromethane	10.46	129	2339725	10.345	ppbv	100
49) Bromoform	13.22	173	2020804	10.819	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	2846185	9.472	ppbv	100
51) 2-Hexanone	10.28	43	2085087	10.771	ppbv #	99
52) Tetrachloroethene	11.38	164	1075586	10.468	ppbv	99
53) Toluene	9.96	91	3387261	10.993	ppbv	99
54) 1,2-Dibromoethane	10.77	107	1939101	10.309	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.29	131	1635270	9.206	ppbv	98
57) Chlorobenzene	12.31	112	2670619	9.161	ppbv	99
58) Ethyl Benzene	12.88	91	4636610	10.116	ppbv	98
59) m/p-Xylene	13.14	91	7929400m	19.434	ppbv	
60) o-Xylene	13.87	91	3836484	9.351	ppbv	99
61) Styrene	13.70	104	2839072	10.630	ppbv	99
62) Isopropylbenzene	14.84	105	5514294	9.944	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.85	83	2664048	8.330	ppbv	100
64) n-propylbenzene	15.74	120	1395026	9.564	ppbv	97
65) tert-Butylbenzene	16.92	119	4894666	9.847	ppbv	99
66) Benzyl Chloride	17.17	91	2716106	9.883	ppbv	100
67) sec-Butylbenzene	17.47	105	6851326	9.564	ppbv	99
69) p-Isopropyltoluene	17.83	119	5573854	9.785	ppbv	99
70) n-Butylbenzene	18.73	91	5521446	9.546	ppbv	99
71) 2-Chlorotoluene	15.63	91	4064875	9.829	ppbv	99
72) 4-Ethyltoluene	16.01	105	4460786	9.920	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	4245979	9.657	ppbv	100
74) 1,2,4-Trimethylbenzene	16.94	105	4347527	9.240	ppbv #	92
75) 1,3-Dichlorobenzene	17.18	146	2433591	9.018	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	2362304	9.371	ppbv	100
77) 1,2-Dichlorobenzene	18.00	146	2339660	9.371	ppbv	99
78) Hexachloro-1,3-Butadiene	23.56	225	1387615	10.298	ppbv	99
79) Naphthalene	22.43	128	3066402	9.921	ppbv	98
80) Naphthalene, 2-methyl-	25.13	142	790464	10.212	ppbv	98
81) 1,2,4-Trichlorobenzene	22.15	180	1575233	10.149	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.00 min

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Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 1427537

Ion Ratio Lower Upper

49 100

128 52.2 24.9 74.6

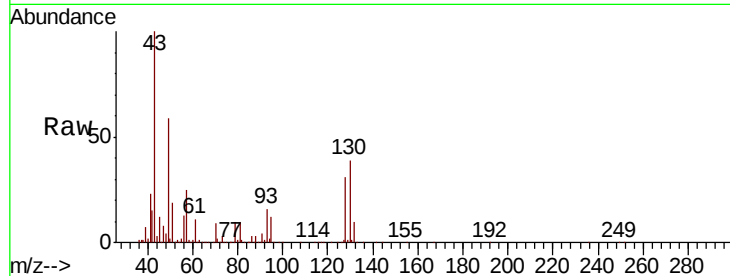
130 67.1 31.4 94.2

Manual Integrations

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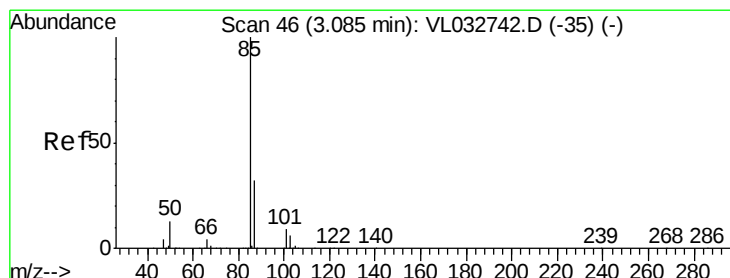
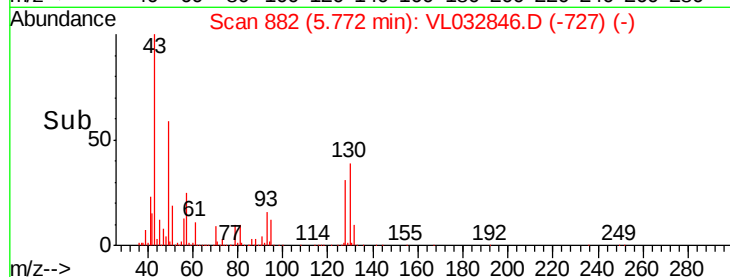
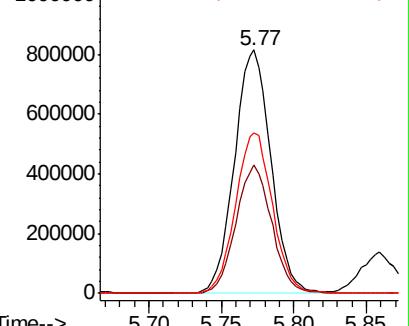
12/3/2018 4:14:55 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 9.179 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032846.D

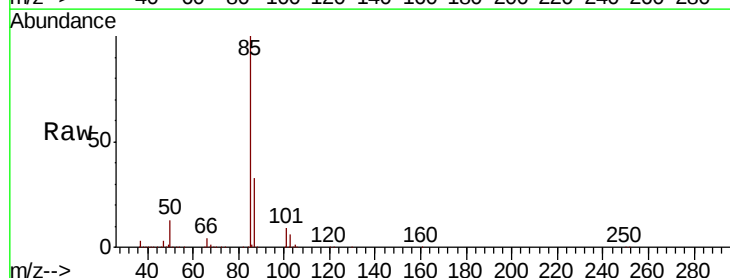
Acq: 30 Nov 2018 11:16

Tgt Ion: 85 Resp: 1883525

Ion Ratio Lower Upper

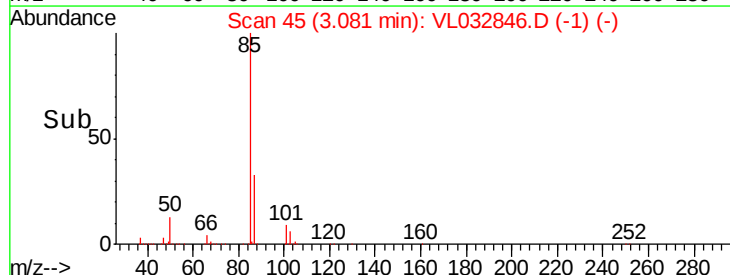
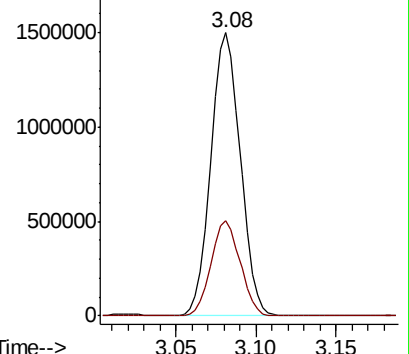
85 100

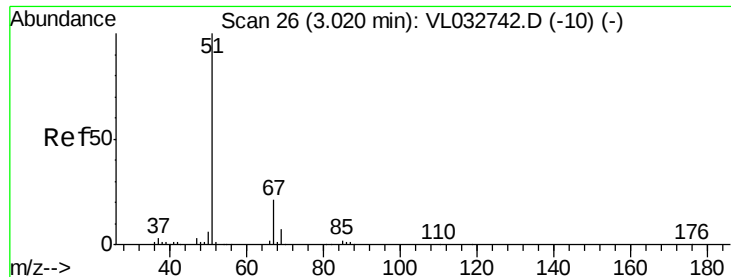
87 33.5 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





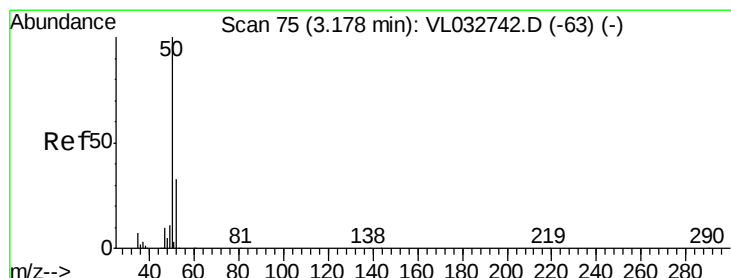
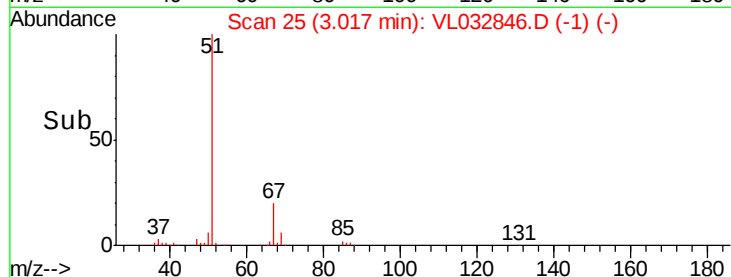
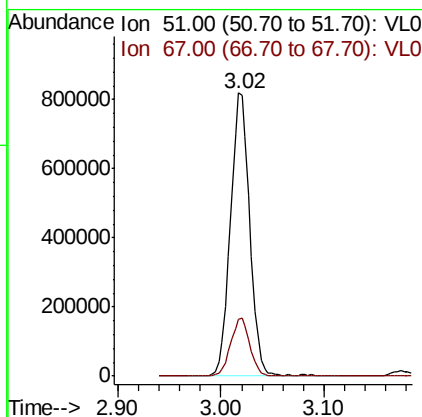
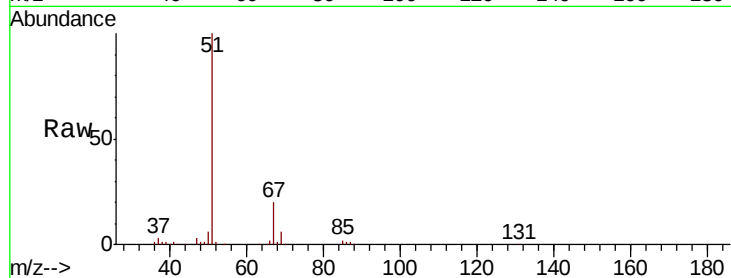
#3
Chlorodifluoromethane
Concen: 9.460 ppbv
RT: 3.02 min Scan# 25
Delta R.T. -0.00 min
Lab File: VL032846.D
Acq: 30 Nov 2018 11:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 51 Resp: 1070626
Ion Ratio Lower Upper
51 100
67 20.4 16.1 24.1

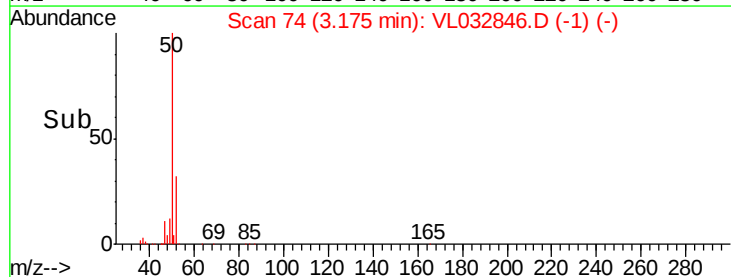
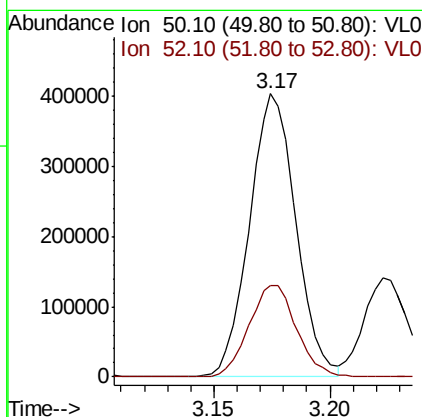
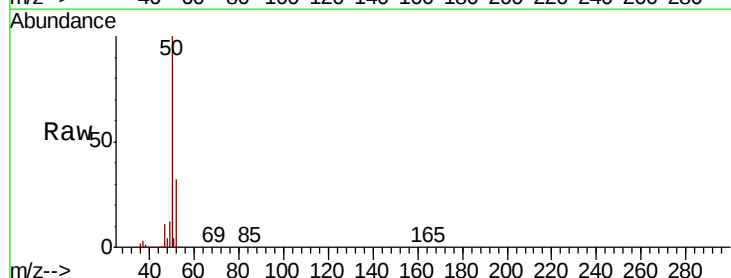
Manual Integrations
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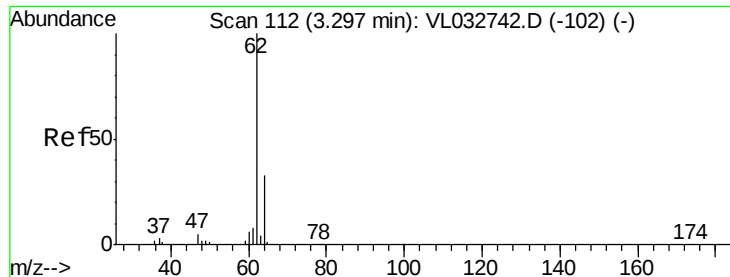
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#4
Chloromethane
Concen: 8.924 ppbv
RT: 3.17 min Scan# 74
Delta R.T. -0.00 min
Lab File: VL032846.D
Acq: 30 Nov 2018 11:16

Tgt Ion: 50 Resp: 560007
Ion Ratio Lower Upper
50 100
52 32.1 26.6 40.0





#5

Vinyl Chloride

Concen: 8.839 ppbv

RT: 3.30 min Scan# 112

Delta R.T. -0.00 min

Lab File: VL032846.D

Acq: 30 Nov 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 587743

Ion Ratio Lower Upper

62 100

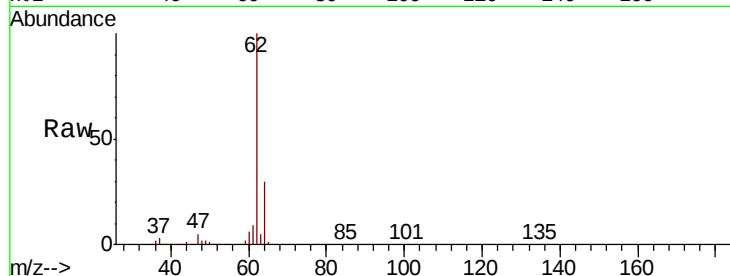
64 30.5 26.2 39.4

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.30

400000

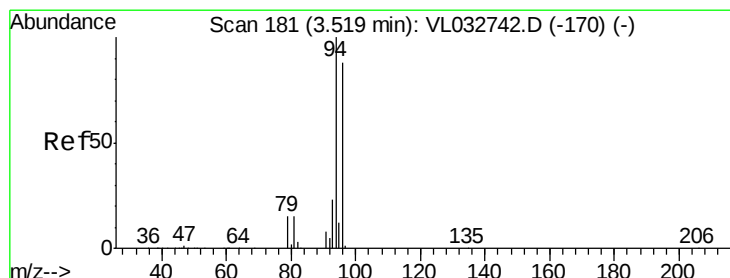
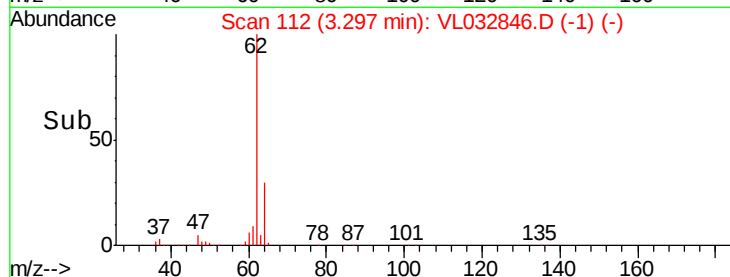
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 9.748 ppbv

RT: 3.52 min Scan# 181

Delta R.T. -0.00 min

Lab File: VL032846.D

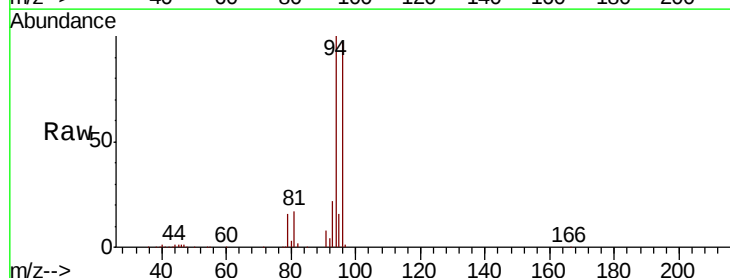
Acq: 30 Nov 2018 11:16

Tgt Ion: 94 Resp: 396532

Ion Ratio Lower Upper

94 100

96 97.0 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.52

300000

250000

200000

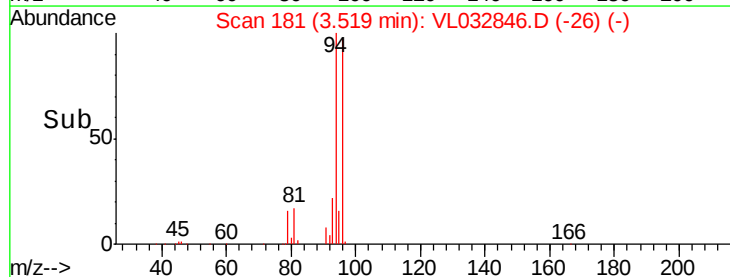
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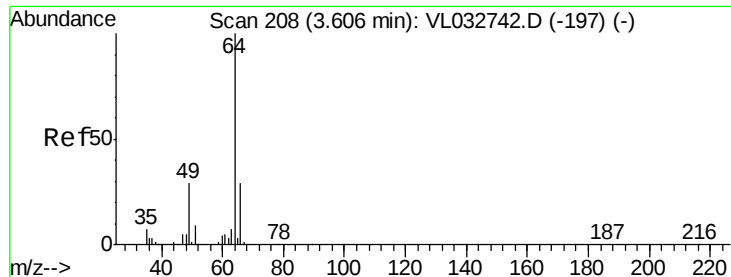
100000

50000

0

Time-->





#7

Chloroethane

Concen: 9.616 ppbv

RT: 3.61 min Scan# 208

Delta R.T. -0.00 min

Lab File: VL032846.D

Acq: 30 Nov 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 230469

Ion Ratio Lower Upper

64 100

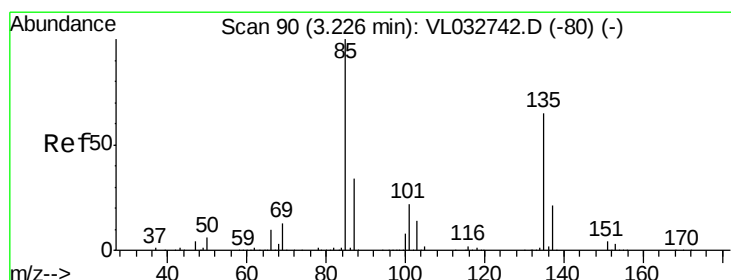
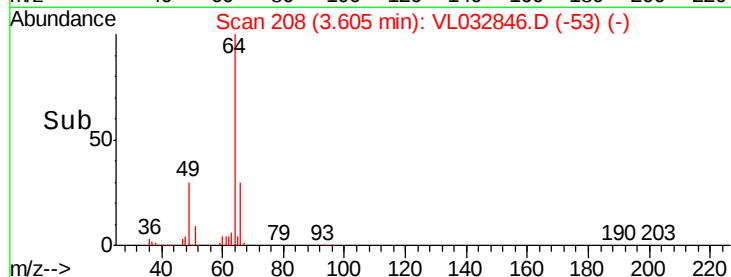
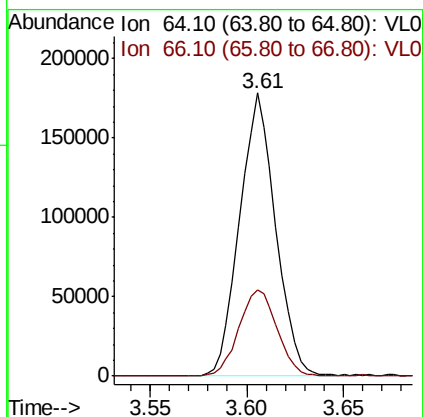
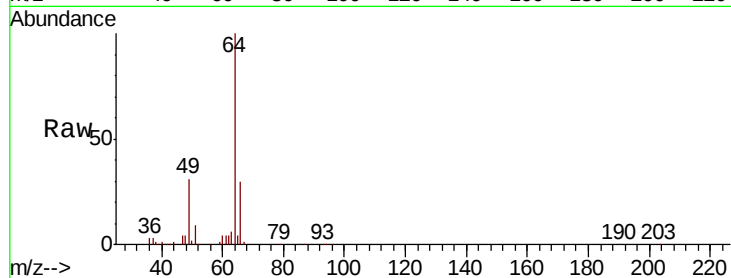
66 30.5 23.2 34.8

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#8

Dichlorotetrafluoroethane

Concen: 9.332 ppbv

RT: 3.22 min Scan# 89

Delta R.T. -0.00 min

Lab File: VL032846.D

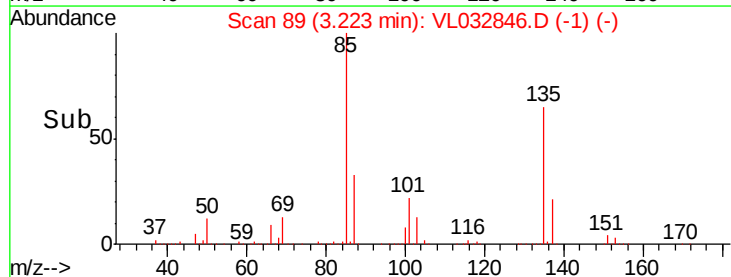
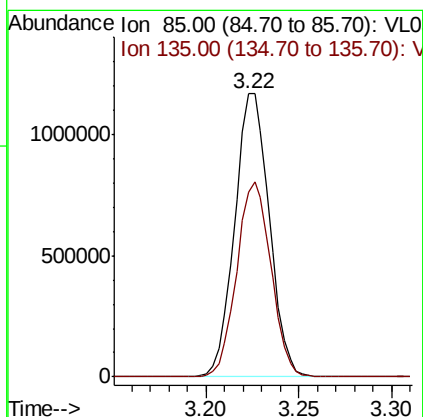
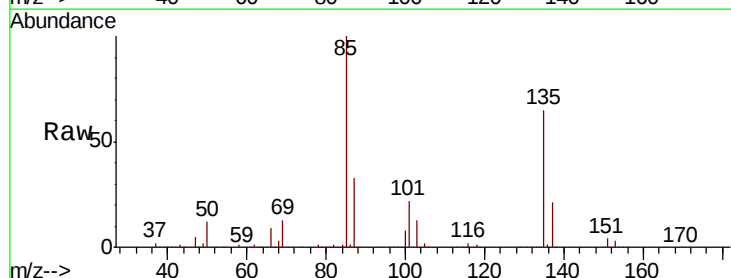
Acq: 30 Nov 2018 11:16

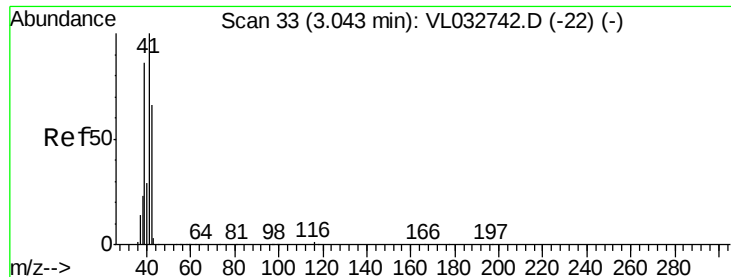
Tgt Ion: 85 Resp: 1509010

Ion Ratio Lower Upper

85 100

135 68.8 53.8 80.8





#9

Propene

Concen: 9.139 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL032846.D

Acq: 30 Nov 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 413925

Ion Ratio Lower Upper

41 100

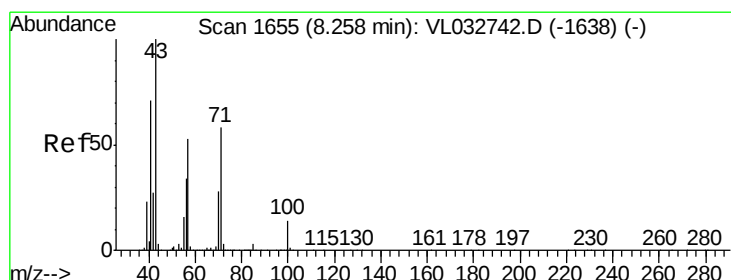
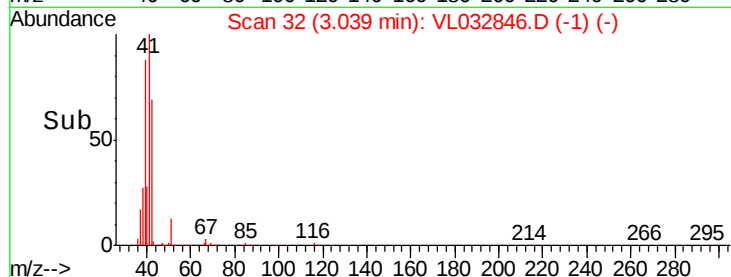
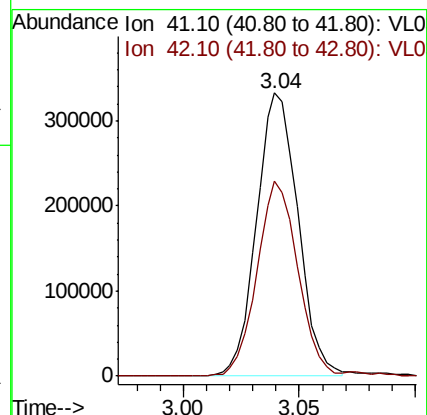
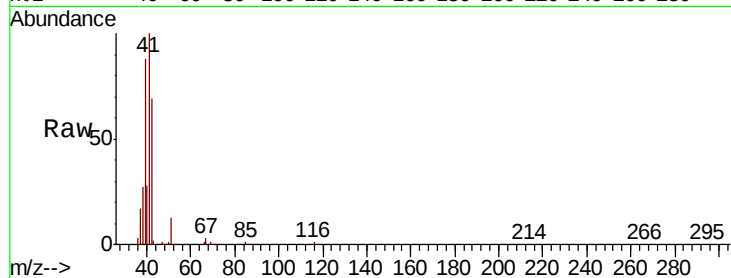
42 69.0 55.0 82.6

Manual Integrations

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#10

Heptane

Concen: 10.195 ppbv

RT: 8.26 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VL032846.D

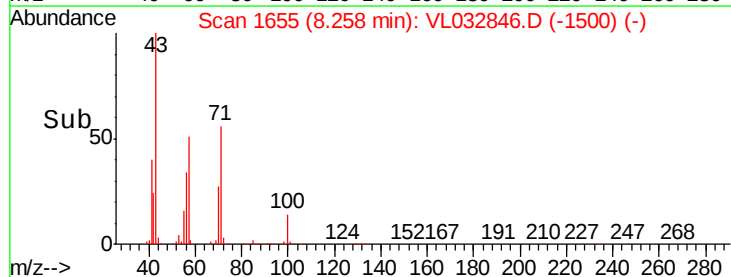
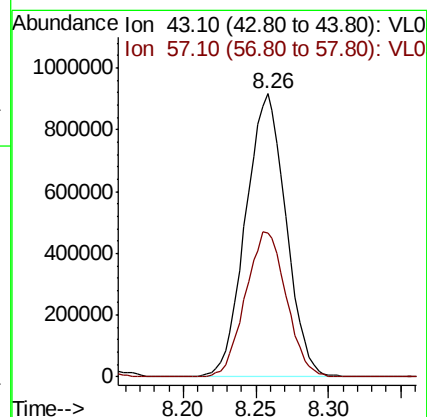
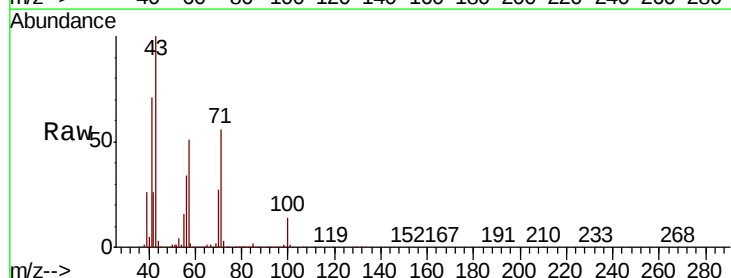
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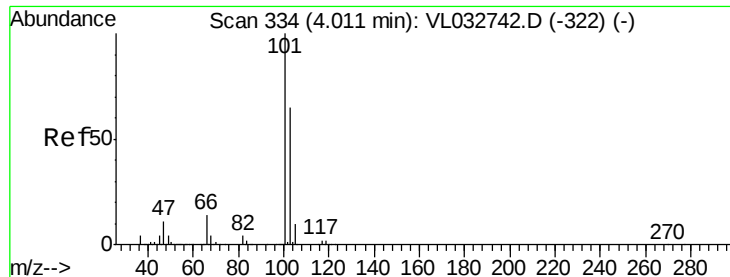
Tgt Ion: 43 Resp: 1762798

Ion Ratio Lower Upper

43 100

57 52.1 41.8 62.8





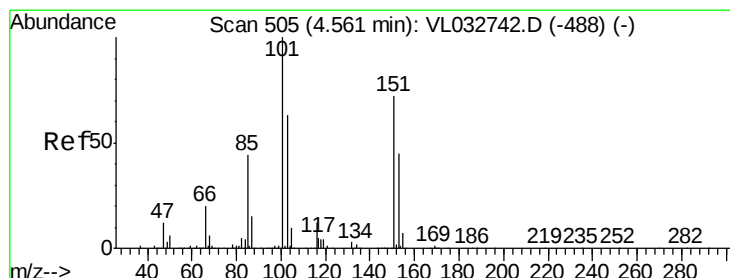
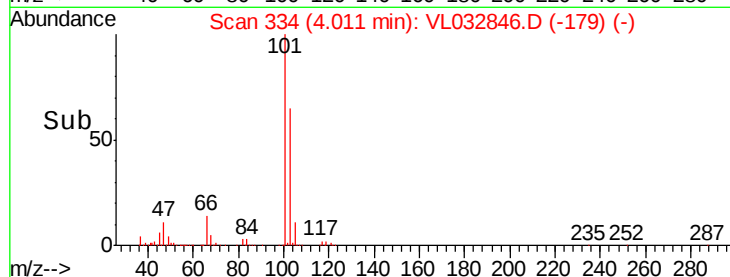
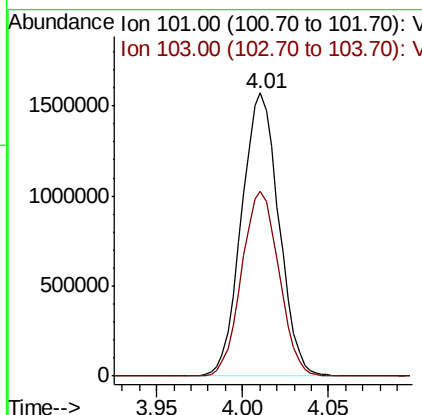
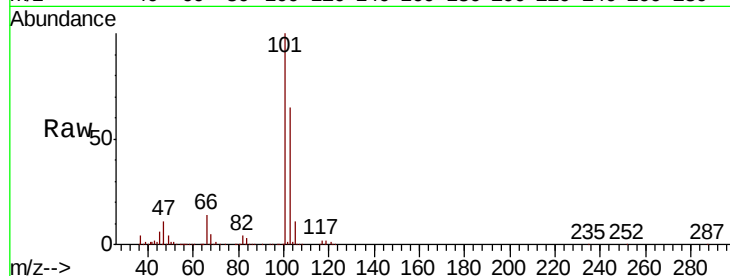
#11
 Trichlorofluoromethane
 Concen: 12.278 ppbv
 RT: 4.01 min Scan# 334
 Delta R.T. -0.00 min
 Lab File: VL032846.D
 Acq: 30 Nov 2018 11:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 2374393
 Ion Ratio Lower Upper
 101 100
 103 65.4 51.6 77.4

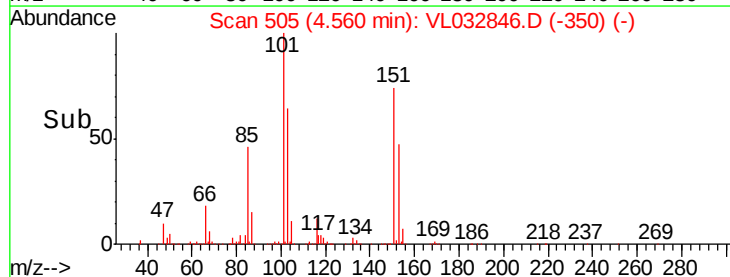
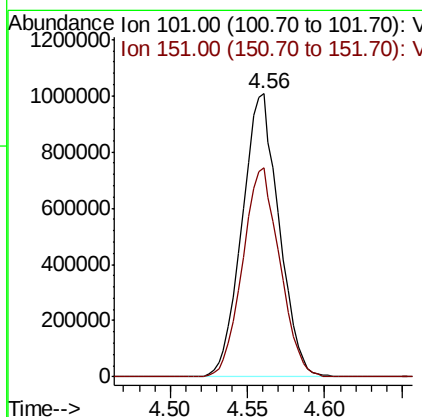
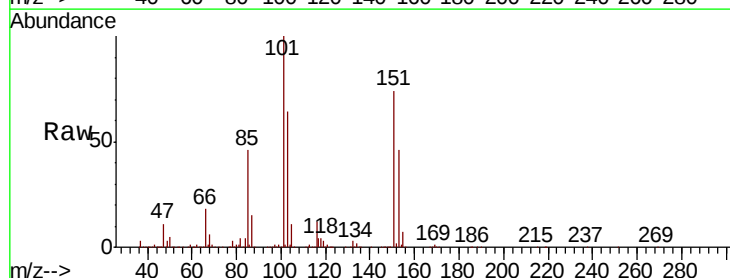
Manual Integrations
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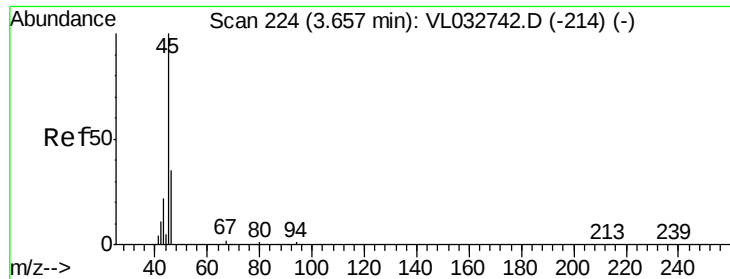
MMDadoda
 12/3/2018 4:14:55 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.618 ppbv
 RT: 4.56 min Scan# 505
 Delta R.T. -0.00 min
 Lab File: VL032846.D
 Acq: 30 Nov 2018 11:16

Tgt Ion:101 Resp: 1677211
 Ion Ratio Lower Upper
 101 100
 151 74.4 56.7 85.1





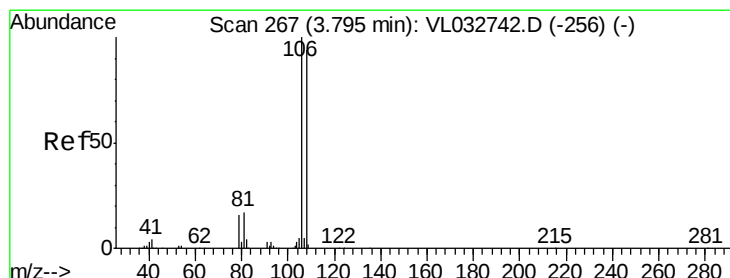
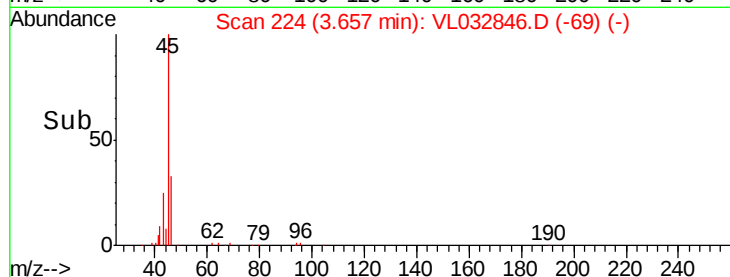
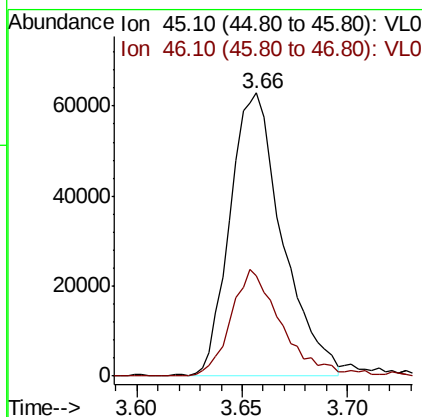
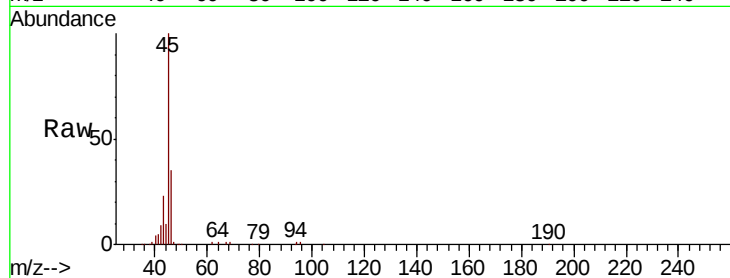
#13
Ethanol
Concen: 7.251 ppbv
RT: 3.66 min Scan# 224
Delta R.T. -0.00 min
Lab File: VL032846.D
Acq: 30 Nov 2018 11:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 45 Resp: 107572
Ion Ratio Lower Upper
45 100
46 38.1 14.5 57.9

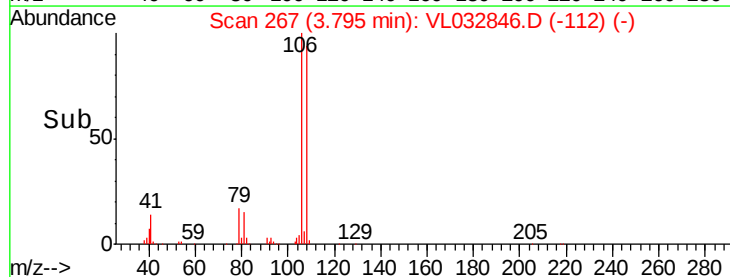
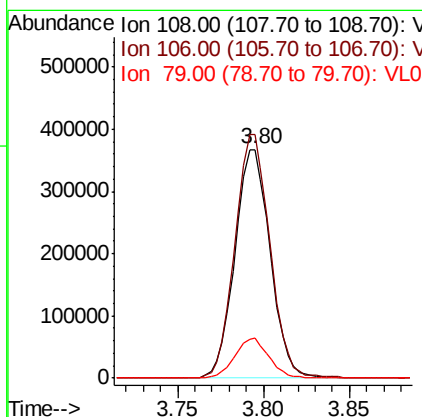
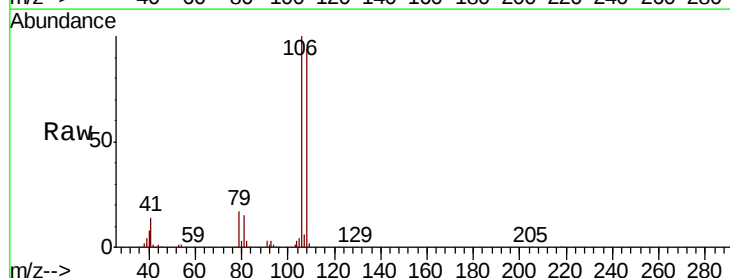
Manual Integrations
APPROVED

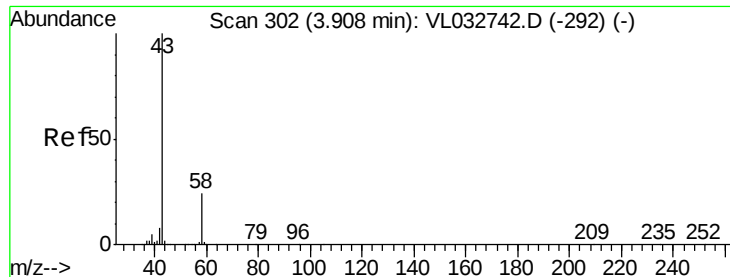
MMDadoda
12/3/2018 4:14:55 PM



#14
Bromoethene
Concen: 9.994 ppbv
RT: 3.80 min Scan# 267
Delta R.T. -0.00 min
Lab File: VL032846.D
Acq: 30 Nov 2018 11:16

Tgt Ion: 108 Resp: 523742
Ion Ratio Lower Upper
108 100
106 106.3 84.9 127.3
79 17.2 14.2 21.4





#15

Acetone

Concen: 8.491 ppbv

RT: 3.91 min Scan# 302

Delta R.T. -0.00 min

Lab File: VL032846.D

Acq: 30 Nov 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1106891

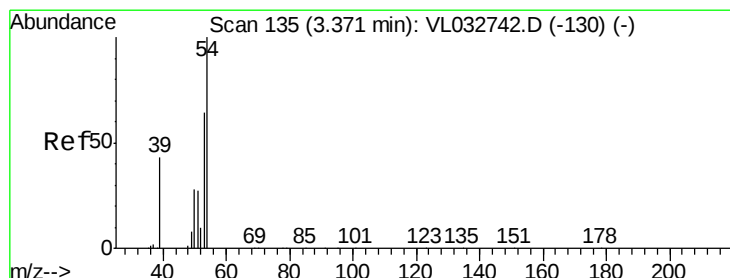
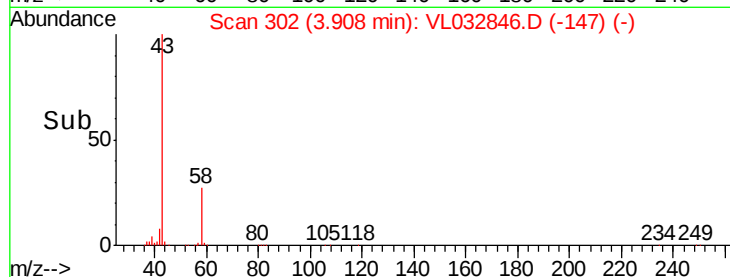
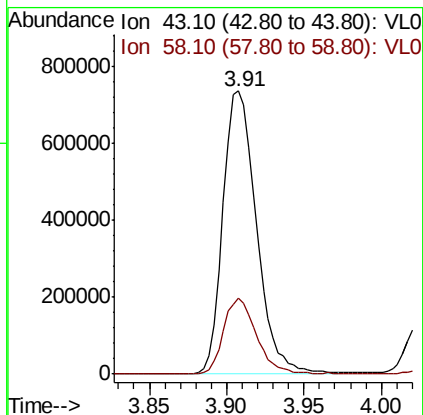
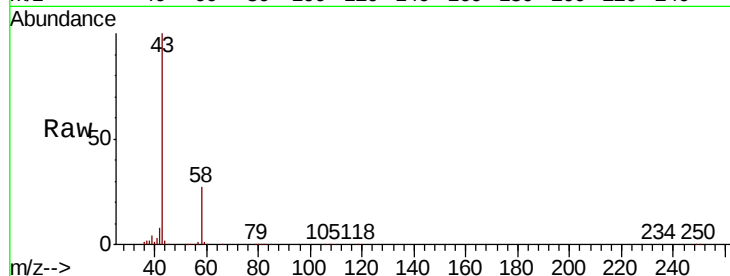
Ion Ratio Lower Upper

43 100

58 26.5 21.1 31.7

Manual Integrations
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#16

1,3-Butadiene

Concen: 9.975 ppbv

RT: 3.37 min Scan# 134

Delta R.T. -0.00 min

Lab File: VL032846.D

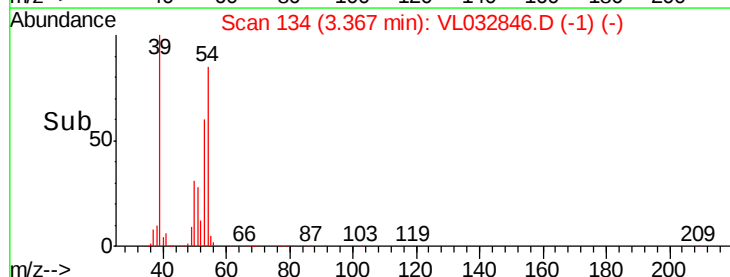
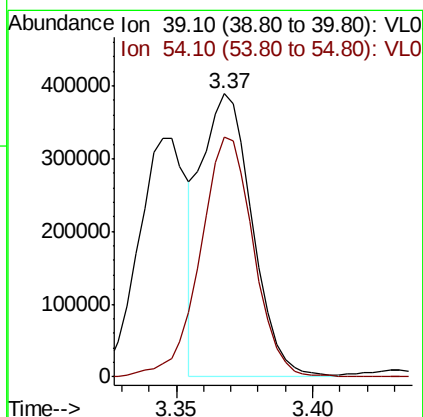
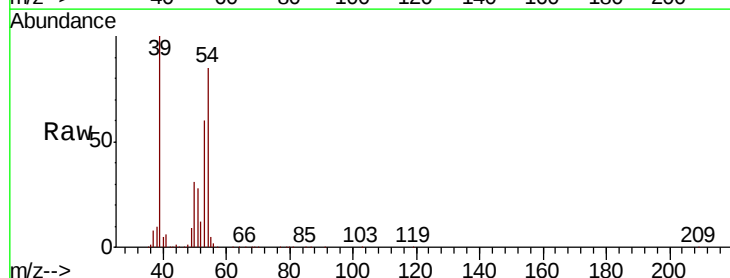
Acq: 30 Nov 2018 11:16

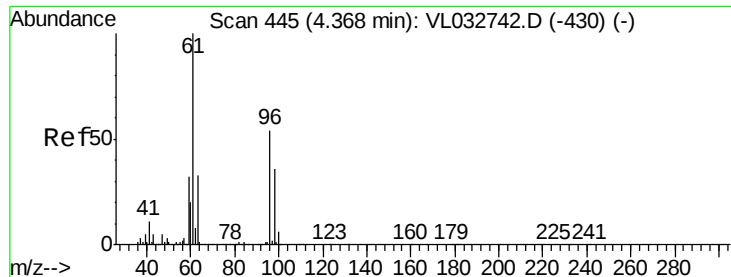
Tgt Ion: 39 Resp: 503572

Ion Ratio Lower Upper

39 100

54 89.3 68.9 103.3





#17

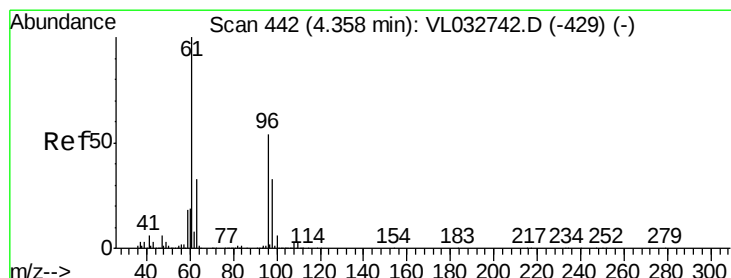
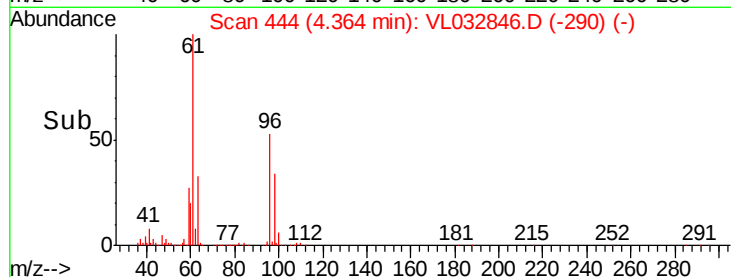
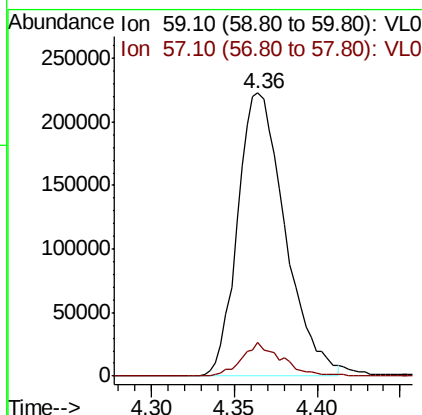
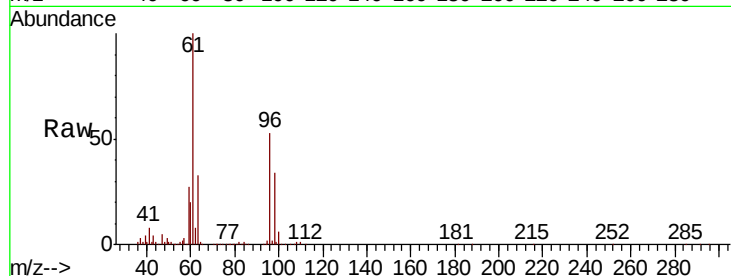
tert-Butyl alcohol
 Concen: 10.834 ppbv
 RT: 4.36 min Scan# 444
 Delta R.T. -0.00 min
 Lab File: VL032846.D
 Acq: 30 Nov 2018 11:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	59.10	Resp	442963
Ion Ratio	59	100	
Lower	57	10.1	7.8
Upper			11.8

Manual Integrations
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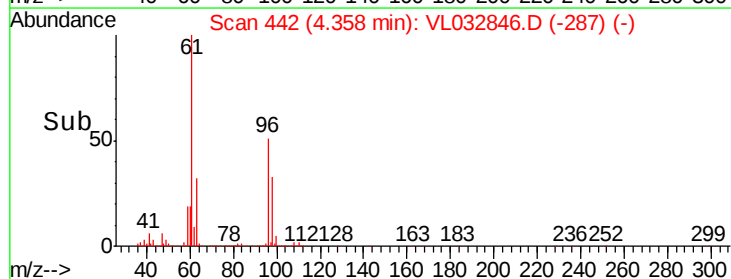
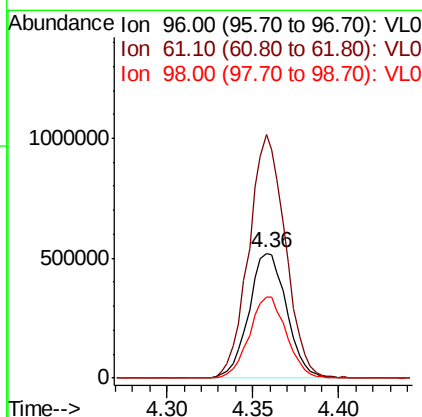
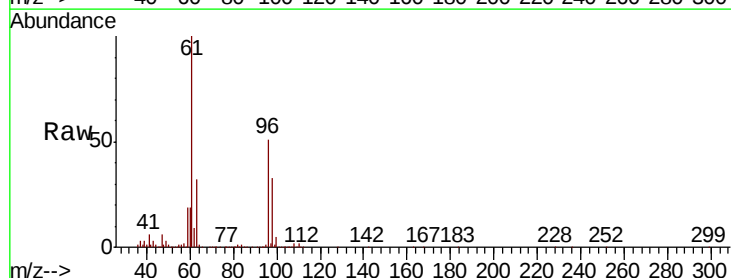
MMDadoda
 12/3/2018 4:14:55 PM

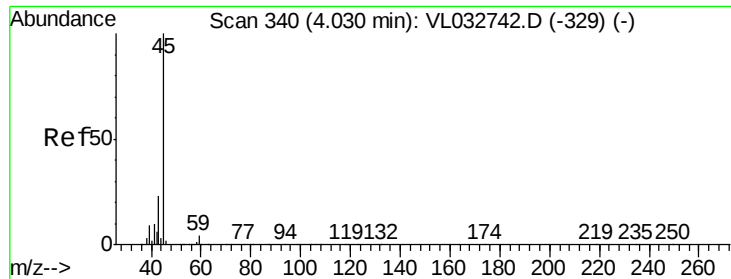


#18

1,1-Dichloroethene
 Concen: 10.178 ppbv
 RT: 4.36 min Scan# 442
 Delta R.T. -0.00 min
 Lab File: VL032846.D
 Acq: 30 Nov 2018 11:16

Tgt Ion	96	Resp	790524
Ion Ratio	96	100	
Lower	61	195.4	148.5
Upper	98	64.7	48.6





#19

Isopropyl Alcohol

Concen: 12.289 ppbv

RT: 4.03 min Scan# 340

Delta R.T. -0.00 min

Lab File: VL032846.D

Acq: 30 Nov 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 1067241

Ion Ratio Lower Upper

45 100

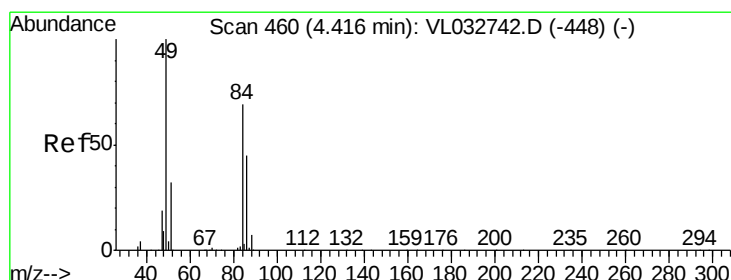
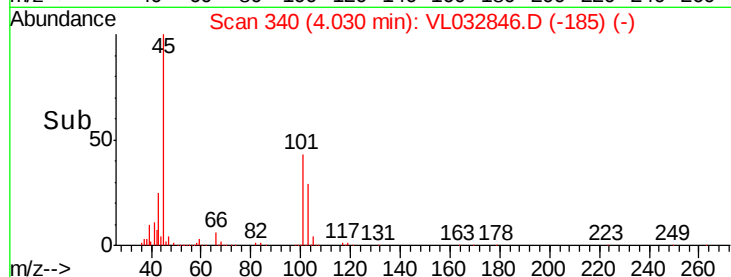
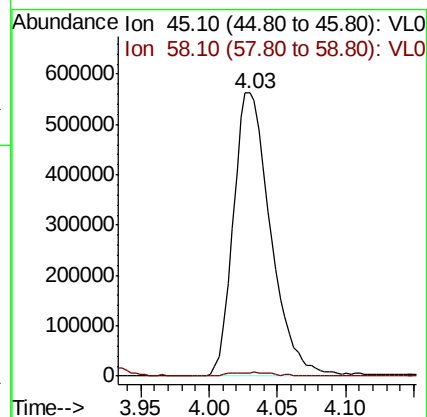
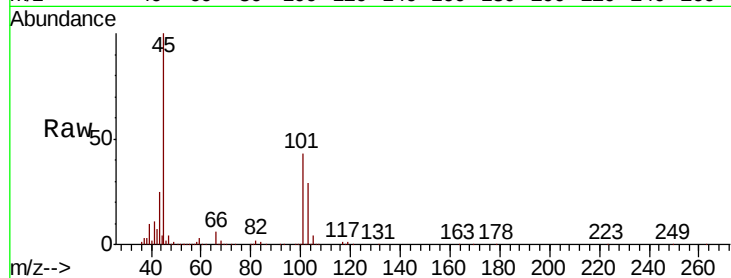
58 1.9 1.4 2.0

Manual Integrations

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#20

Methylene Chloride

Concen: 10.468 ppbv

RT: 4.42 min Scan# 460

Delta R.T. -0.00 min

Lab File: VL032846.D

Acq: 30 Nov 2018 11:16

Tgt Ion: 84 Resp: 706500

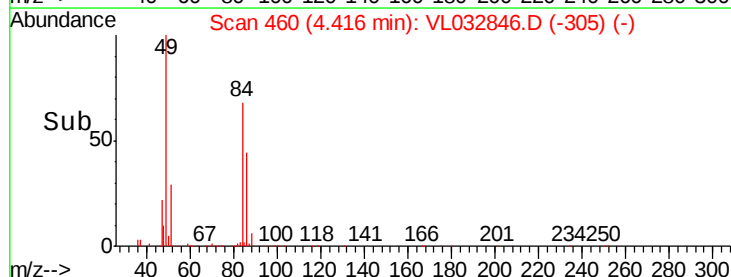
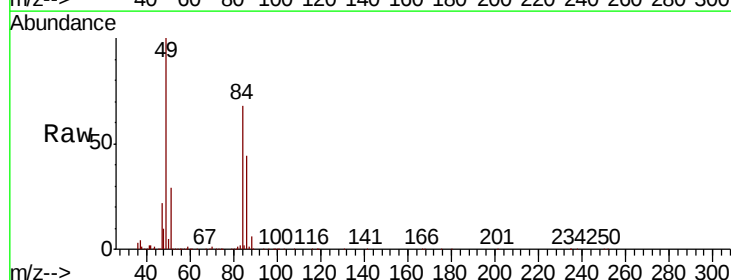
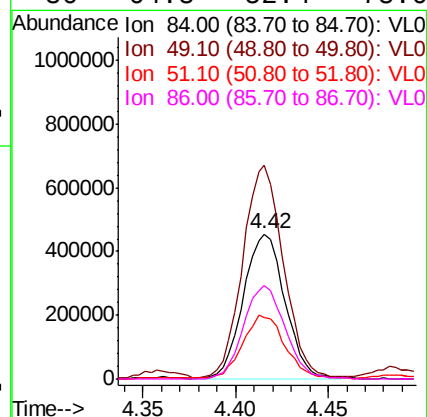
Ion Ratio Lower Upper

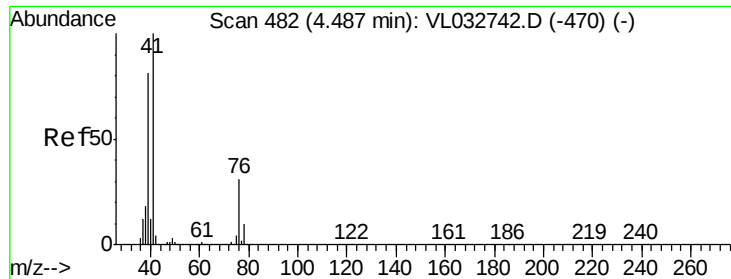
84 100

49 146.8 115.8 173.6

51 41.3 36.9 55.3

86 64.8 52.4 78.6





#21

Allvl Chloride

Concen: 10.124 ppbv

RT: 4.49 min Scan# 482

Delta R.T. -0.00 min

Lab File: VL032846.D

Acq: 30 Nov 2018 11:16

Instrument :

MSVOA_L

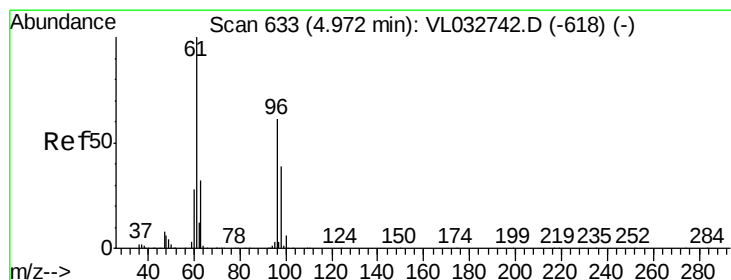
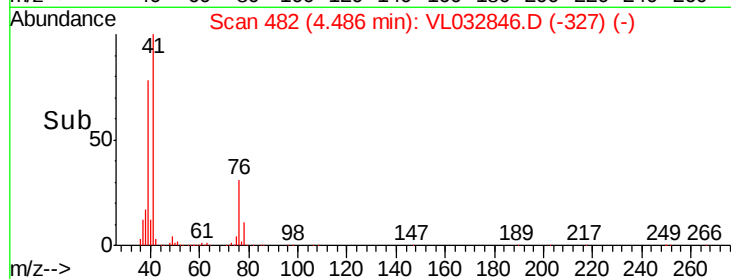
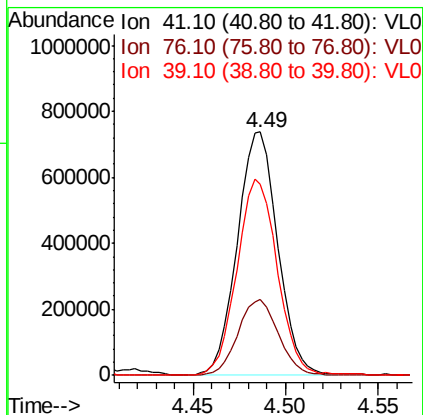
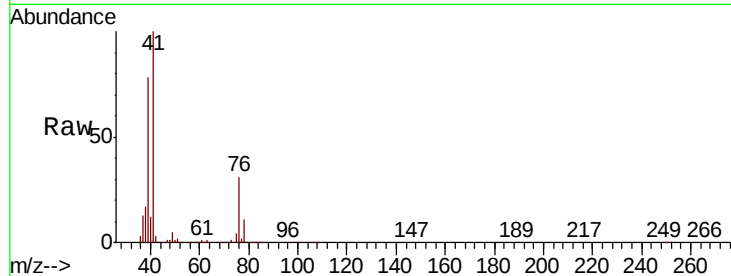
ClientSampleId :

VSTDCCC010

Tot Ion:	41	Resp:	1109149
Ion	Ratio	Lower	Upper
41	100		
76	31.6	24.4	36.6
39	81.3	63.5	95.3

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 10.408 ppbv

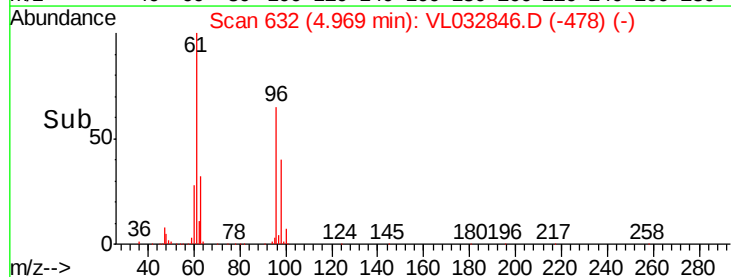
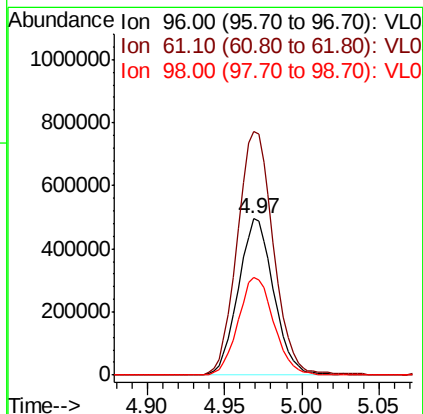
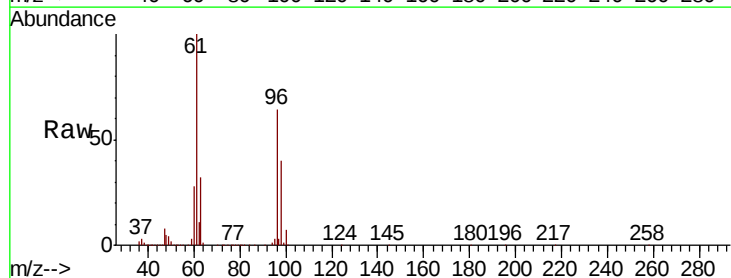
RT: 4.97 min Scan# 632

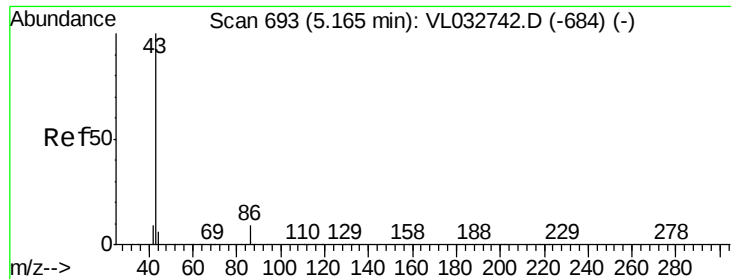
Delta R.T. -0.00 min

Lab File: VL032846.D

Acq: 30 Nov 2018 11:16

Tgt Ion:	96	Resp:	789415
Ion	Ratio	Lower	Upper
96	100		
61	155.9	130.2	195.2
98	62.4	50.2	75.2





#23

Vinyl Acetate

Concen: 9.748 ppbv

RT: 5.16 min Scan# 692

Delta R.T. -0.00 min

Lab File: VL032846.D

Acq: 30 Nov 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 2316522

Ion Ratio Lower Upper

43 100

86 8.5 6.2 9.4

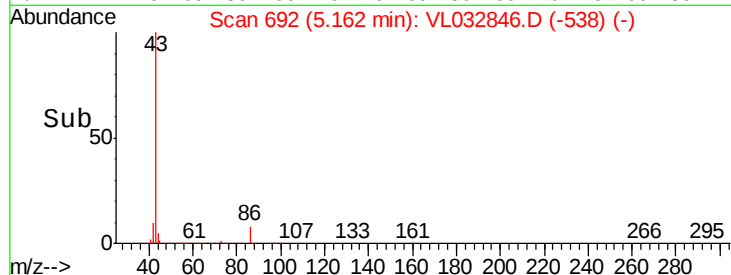
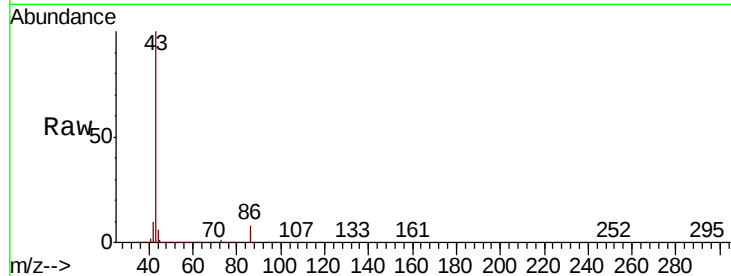
42 9.9 7.8 11.6

44 5.7 4.4 6.6

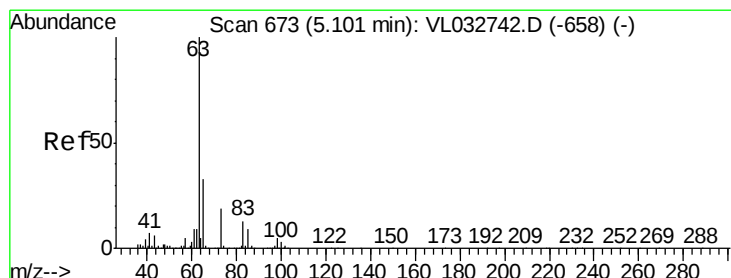
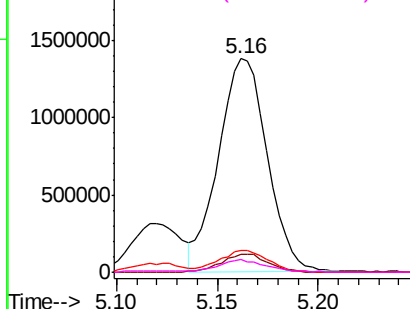
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.734 ppbv

RT: 5.10 min Scan# 673

Delta R.T. -0.00 min

Lab File: VL032846.D

Acq: 30 Nov 2018 11:16

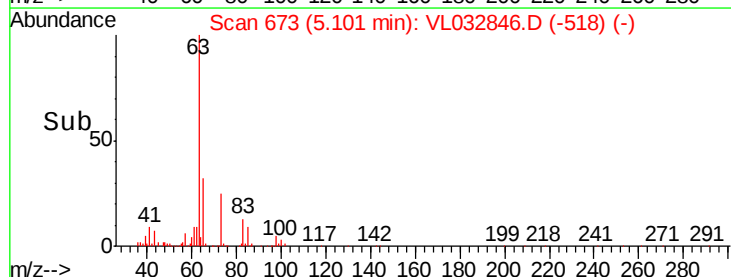
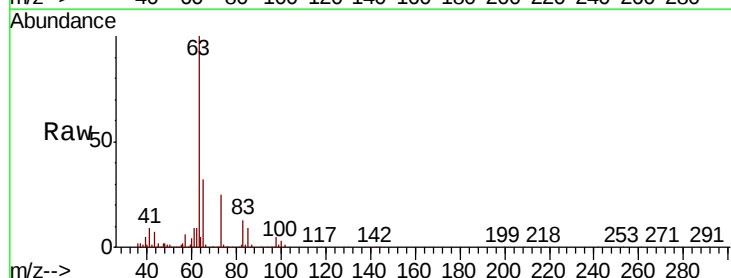
Tgt Ion: 63 Resp: 1839034

Ion Ratio Lower Upper

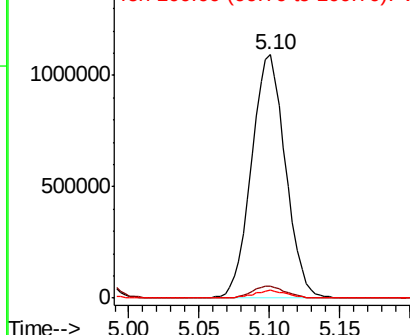
63 100

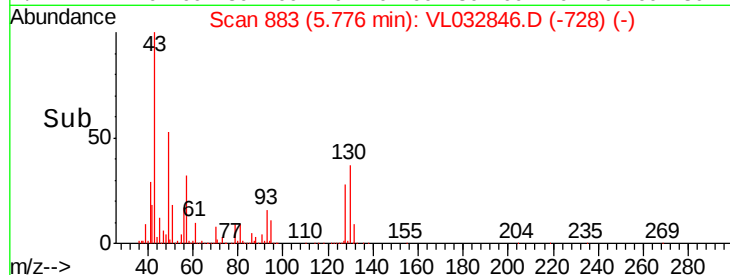
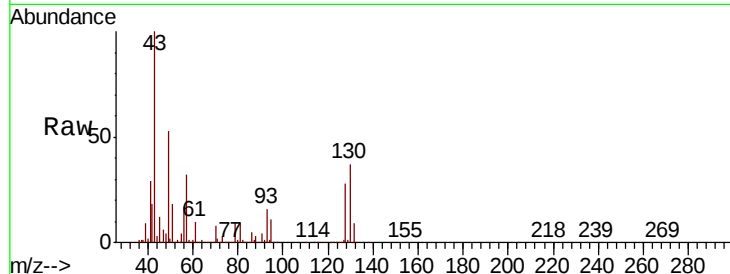
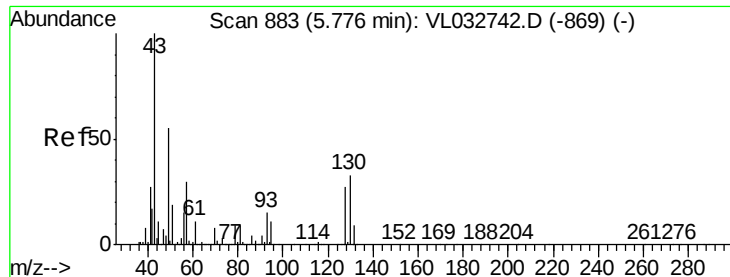
98 4.8 2.3 6.8

100 3.3 1.4 4.2



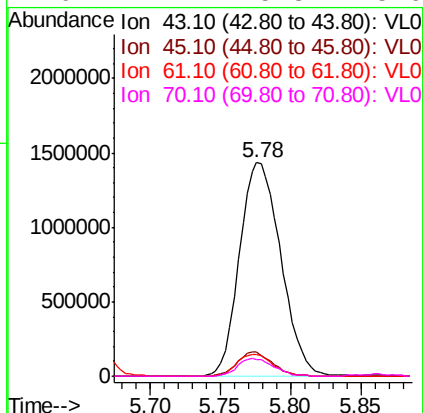
Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0





#25
Ethyl Acetate
Concen: 9.672 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL032846.D
Acq: 30 Nov 2018 11:16

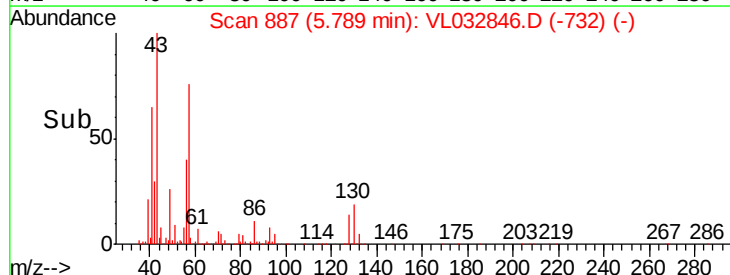
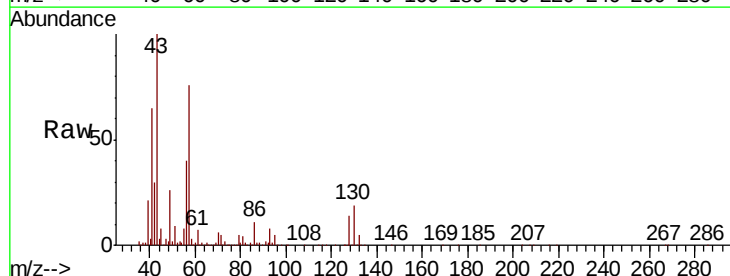
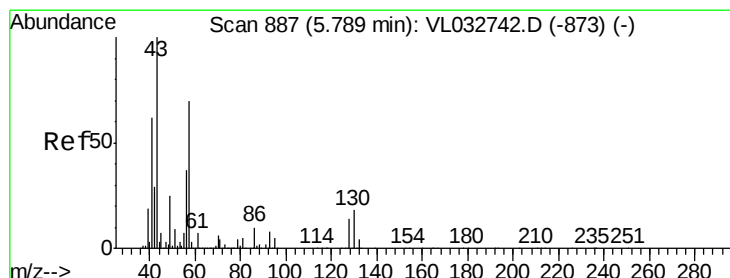
Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.8	7.9	11.9	
61	9.3	7.8	11.6	
70	7.4	5.8	8.6	



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

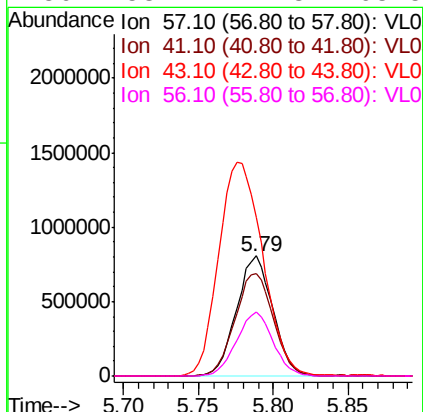
Manual Integrations
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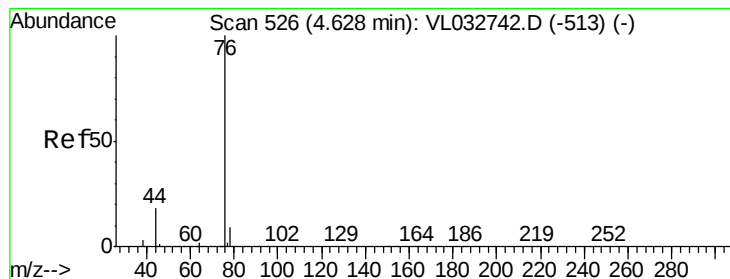
MMDadoda
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#26
Hexane
Concen: 10.051 ppbv
RT: 5.79 min Scan# 887
Delta R.T. -0.00 min
Lab File: VL032846.D
Acq: 30 Nov 2018 11:16

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	90.6	70.3	105.5	
43	217.3	174.0	261.0	
56	53.7	42.3	63.5	





#27

Carbon Disulfide

Concen: 11.083 ppbv

RT: 4.63 min Scan# 526

Delta R.T. -0.00 min

Lab File: VL032846.D

Acq: 30 Nov 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1900740

Ion Ratio Lower Upper

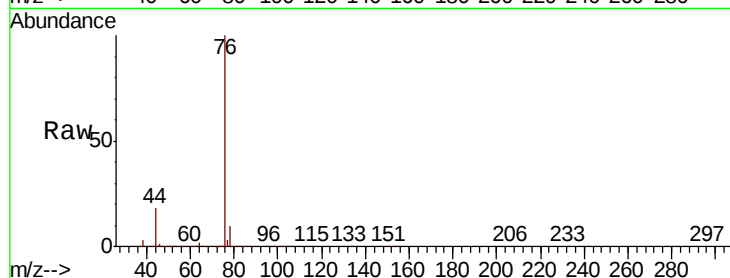
76 100

44 18.2 14.4 21.6

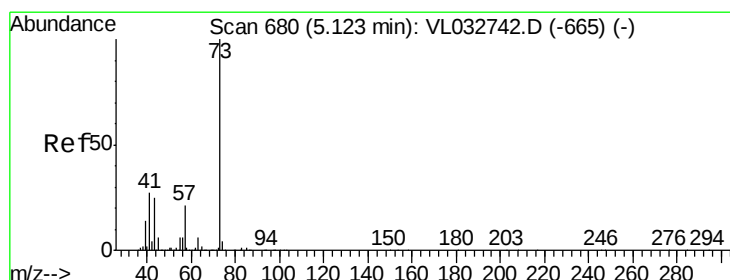
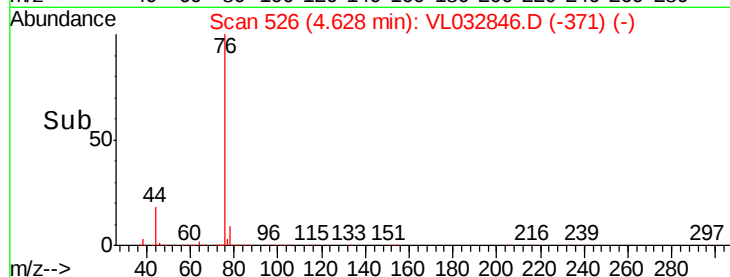
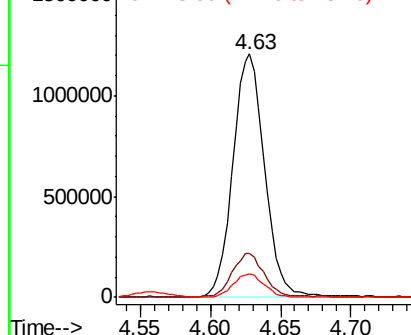
78 9.5 7.7 11.5

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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.526 ppbv

RT: 5.12 min Scan# 679

Delta R.T. -0.00 min

Lab File: VL032846.D

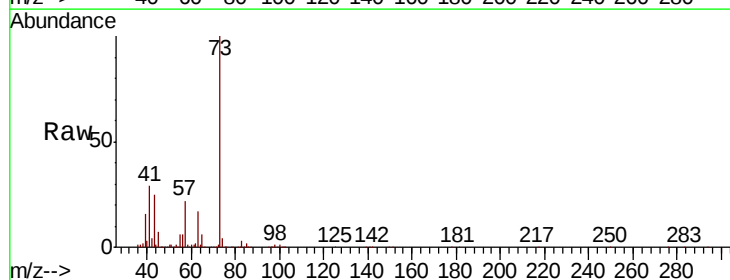
Acq: 30 Nov 2018 11:16

Tgt Ion: 73 Resp: 2270401

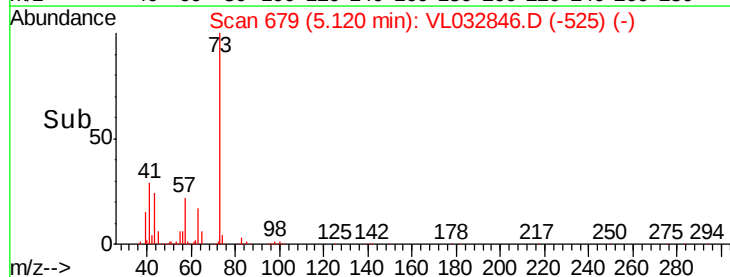
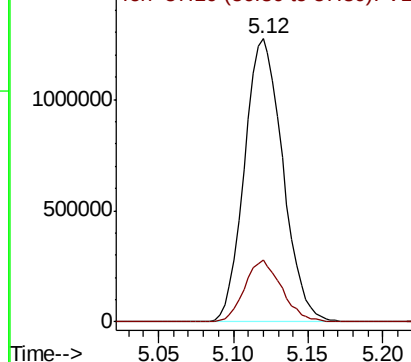
Ion Ratio Lower Upper

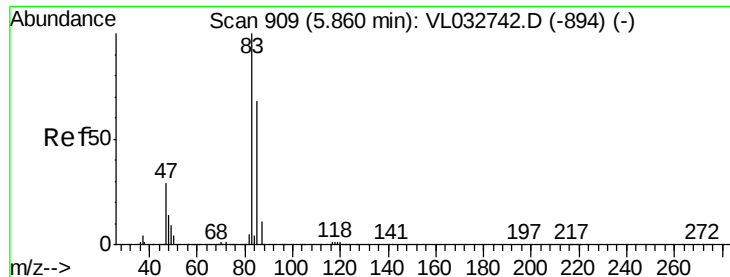
73 100

57 21.4 17.5 26.3



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 10.225 ppbv

RT: 5.86 min Scan# 909

Delta R.T. -0.00 min

Lab File: VL032846.D

Acq: 30 Nov 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 2464878

Ion Ratio Lower Upper

83 100

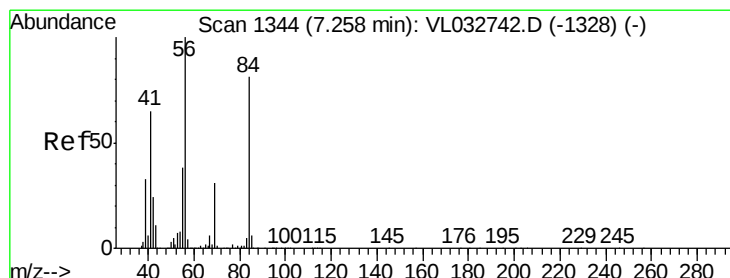
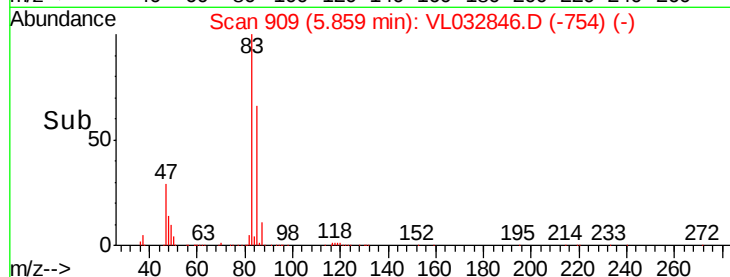
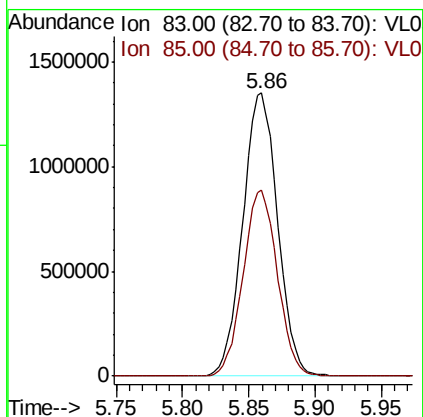
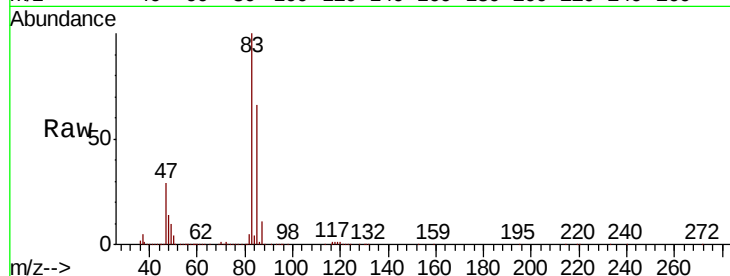
85 65.7 54.2 81.4

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#30

Cyclohexane

Concen: 10.344 ppbv

RT: 7.26 min Scan# 1344

Delta R.T. -0.00 min

Lab File: VL032846.D

Acq: 30 Nov 2018 11:16

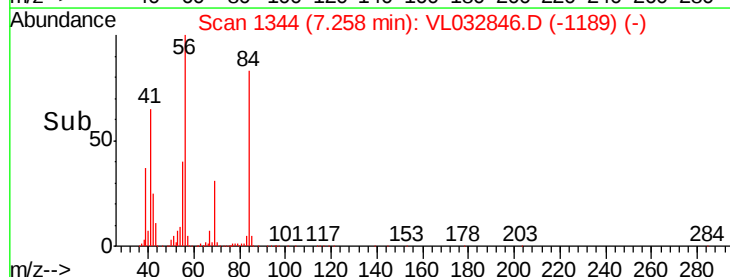
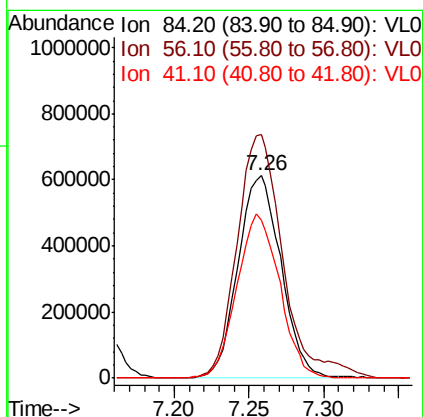
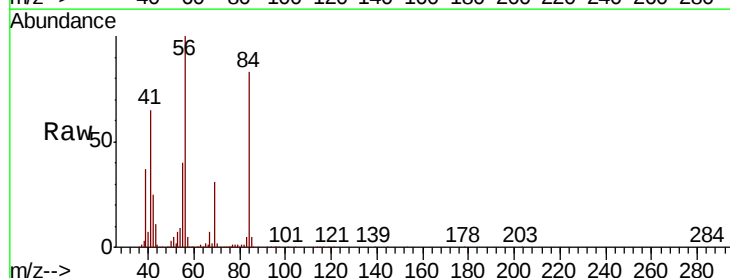
Tgt Ion: 84 Resp: 1223682

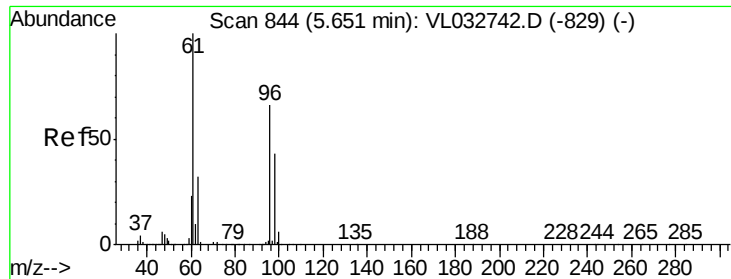
Ion Ratio Lower Upper

84 100

56 128.9 105.0 157.4

41 81.0 65.3 97.9





#31

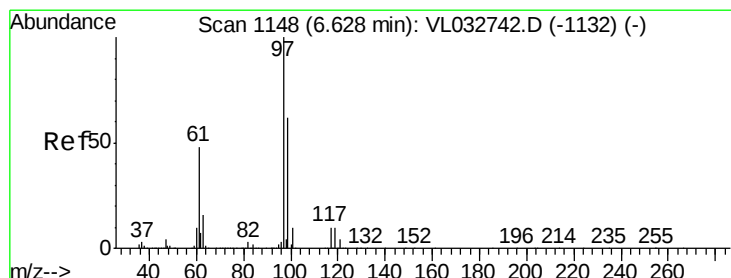
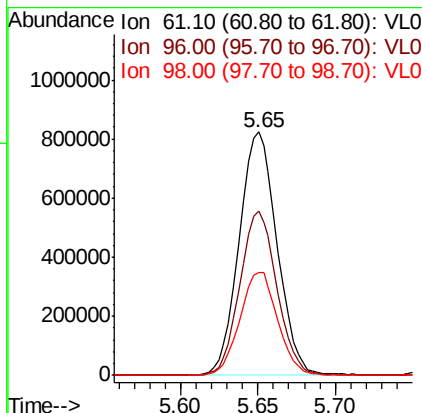
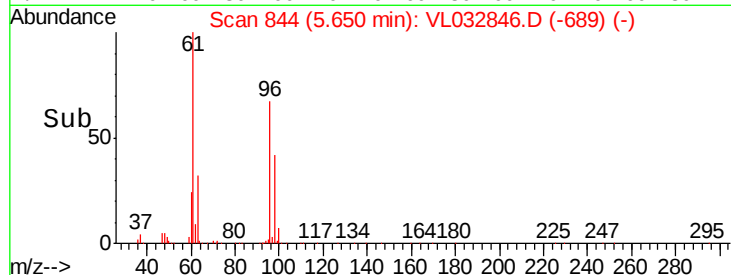
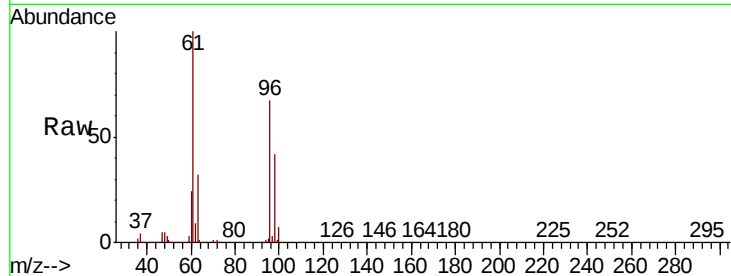
cis-1,2-Dichloroethene
Concen: 10.299 ppbv
RT: 5.65 min Scan# 844
Delta R.T. -0.00 min
Lab File: VL032846.D
Acq: 30 Nov 2018 11:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	67.2	53.2	79.8
98	42.1	34.4	51.6

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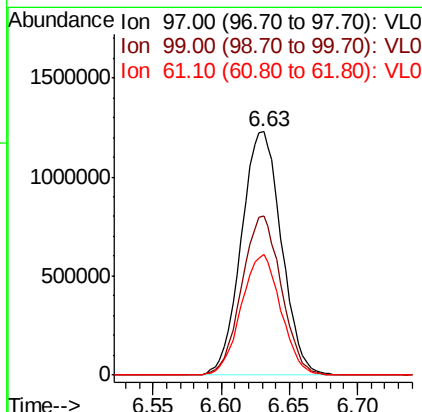
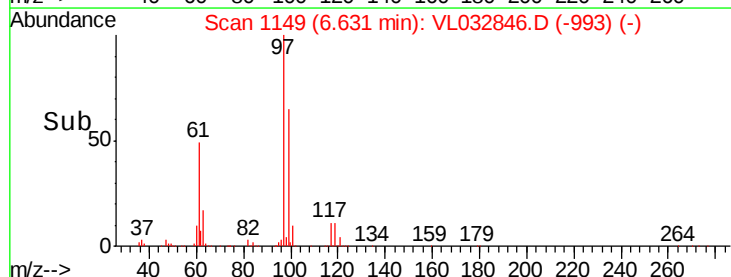
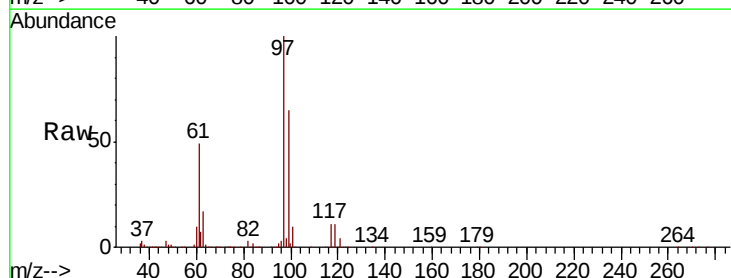
MMDadoda
12/3/2018 4:14:55 PM

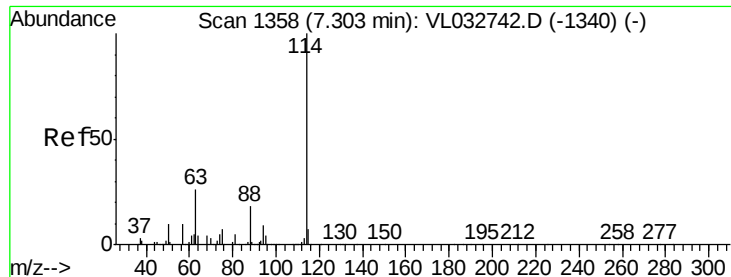


#32

1,1,1-Trichloroethane
Concen: 9.485 ppbv
RT: 6.63 min Scan# 1149
Delta R.T. 0.00 min
Lab File: VL032846.D
Acq: 30 Nov 2018 11:16

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.8	77.6
61	49.0	39.7	59.5





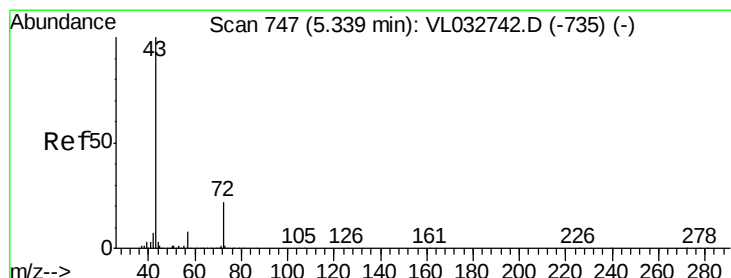
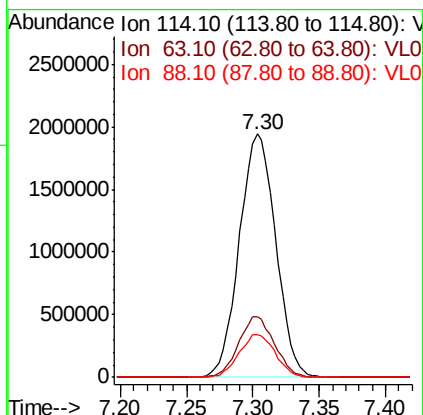
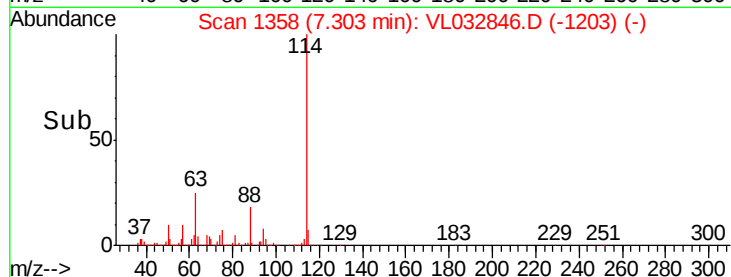
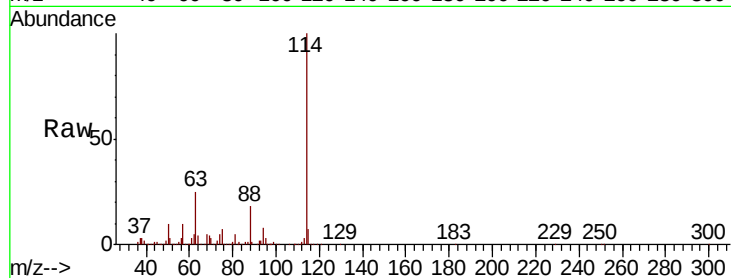
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1358
 Delta R.T. -0.00 min
 Lab File: VL032846.D
 Acq: 30 Nov 2018 11:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.8	20.9	31.3
88	17.6	14.4	21.6

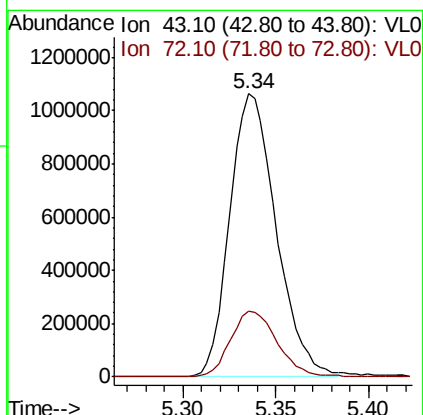
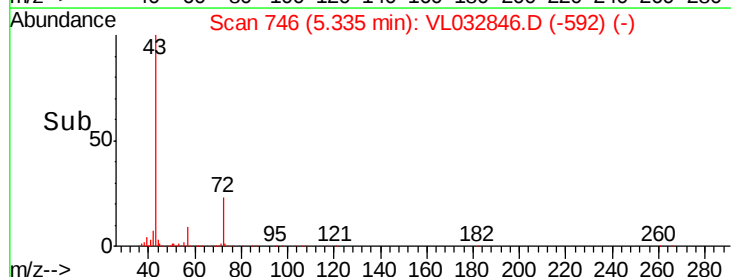
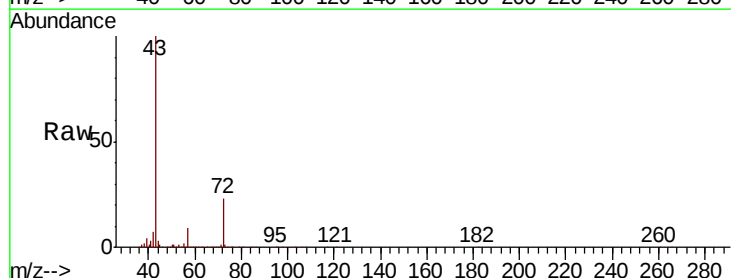
Manual Integrations
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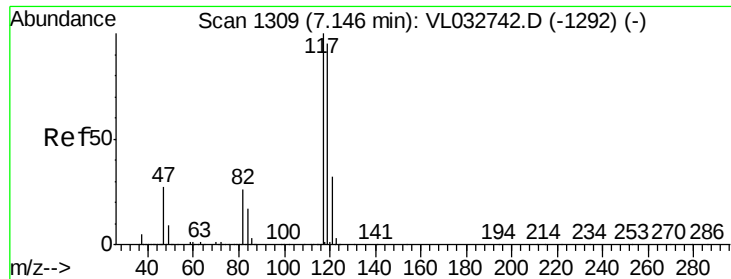
MMDadoda
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#34
 2-Butanone
 Concen: 9.572 ppbv
 RT: 5.34 min Scan# 746
 Delta R.T. -0.00 min
 Lab File: VL032846.D
 Acq: 30 Nov 2018 11:16

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.5	18.4	27.6





#35

Carbon Tetrachloride

Concen: 9.254 ppbv

RT: 7.15 min Scan# 1309

Delta R.T. -0.00 min

Lab File: VL032846.D

Acq: 30 Nov 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 117 Resp: 2759229

Ion Ratio Lower Upper

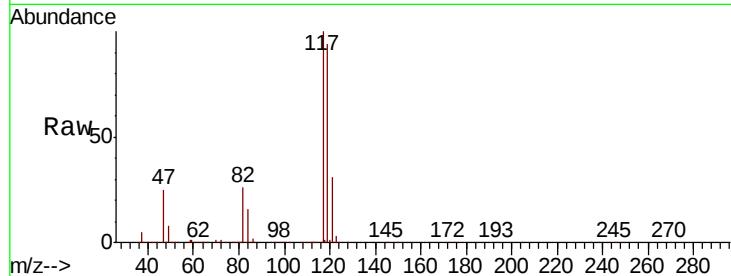
117 100

119 94.2 76.1 114.1

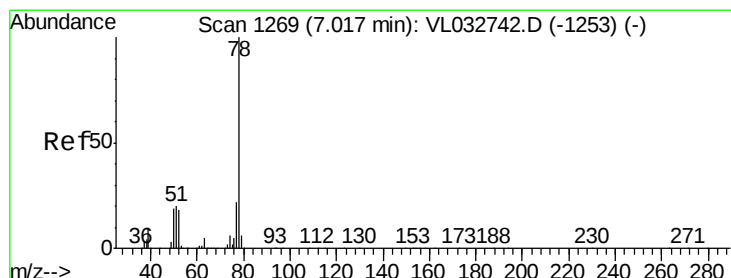
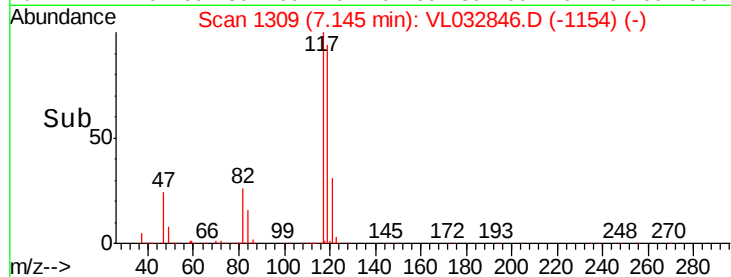
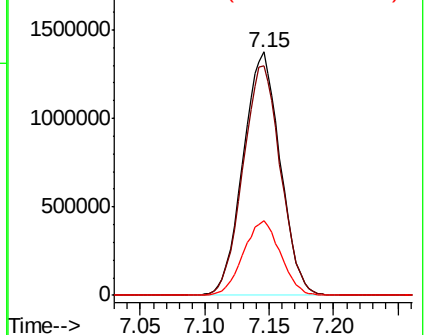
121 30.6 25.4 38.0

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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.748 ppbv

RT: 7.02 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VL032846.D

Acq: 30 Nov 2018 11:16

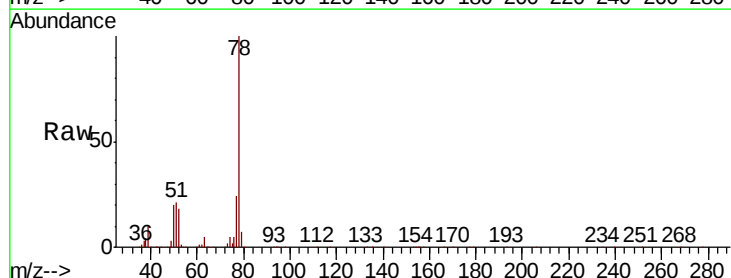
Tgt Ion: 78 Resp: 2879300

Ion Ratio Lower Upper

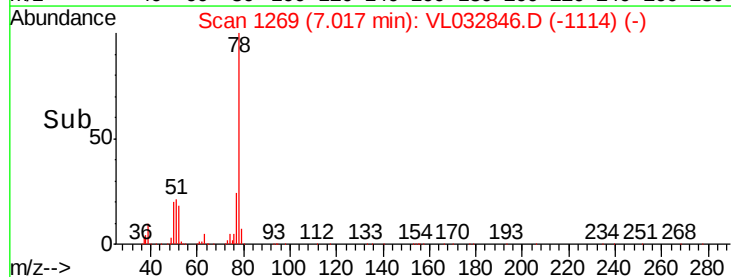
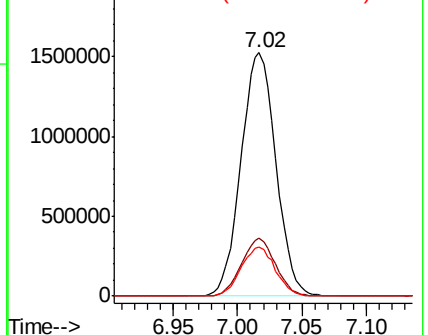
78 100

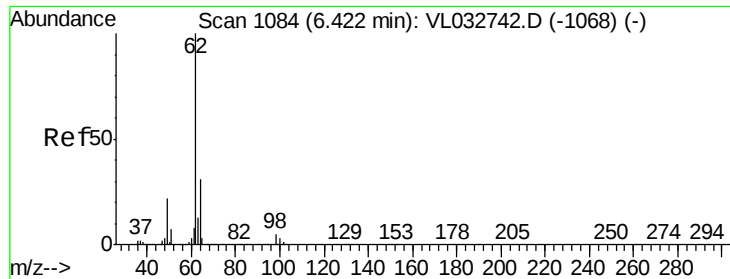
77 23.8 17.8 26.8

50 20.3 15.4 23.0



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





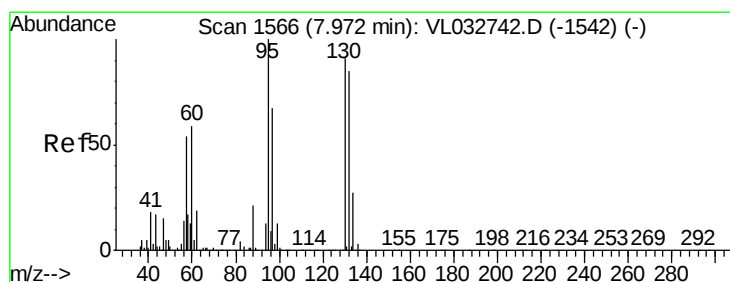
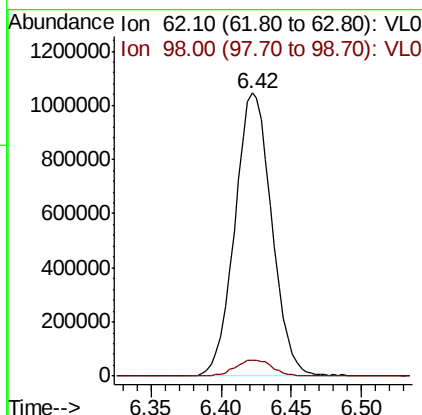
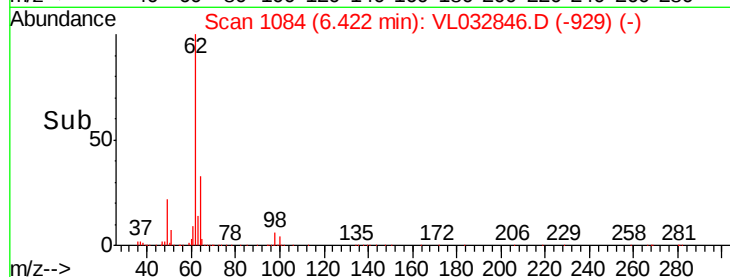
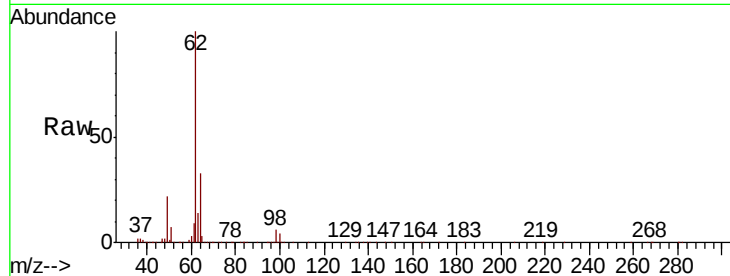
#37
 1,2-Dichloroethane
 Concen: 9.619 ppbv
 RT: 6.42 min Scan# 1084
 Delta R.T. -0.00 min
 Lab File: VL032846.D
 Acq: 30 Nov 2018 11:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 62 Resp: 1912526
 Ion Ratio Lower Upper
 62 100
 98 5.9 4.5 6.7

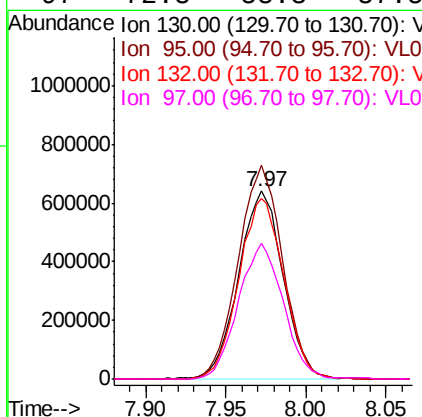
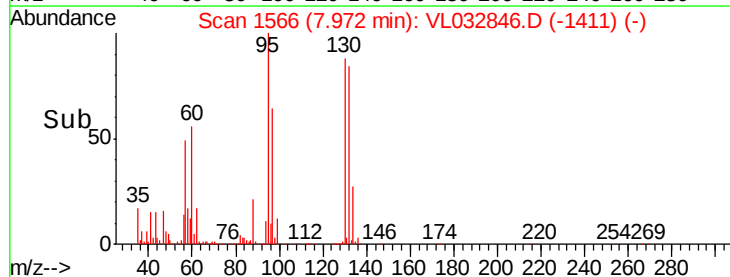
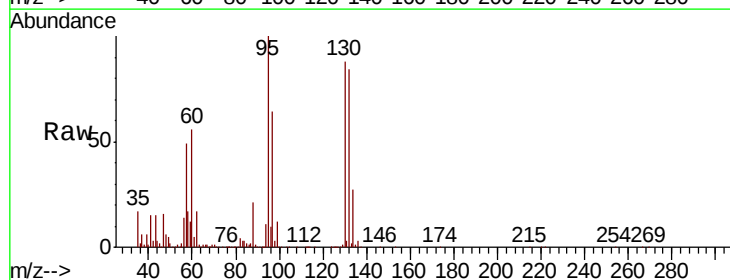
Manual Integrations
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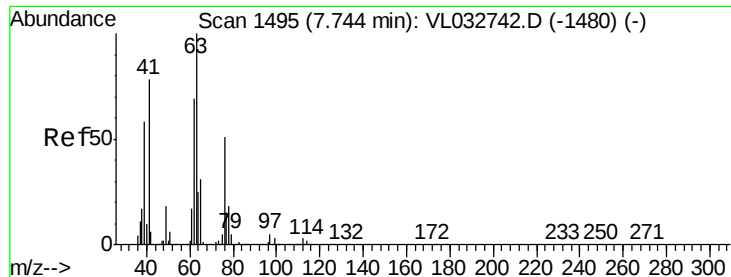
MMDadoda
 12/3/2018 4:14:55 PM



#38
 Trichloroethene
 Concen: 10.115 ppbv
 RT: 7.97 min Scan# 1566
 Delta R.T. -0.00 min
 Lab File: VL032846.D
 Acq: 30 Nov 2018 11:16

Tgt Ion: 130 Resp: 1209047
 Ion Ratio Lower Upper
 130 100
 95 113.9 87.7 131.5
 132 96.2 74.6 111.8
 97 72.8 58.3 87.5





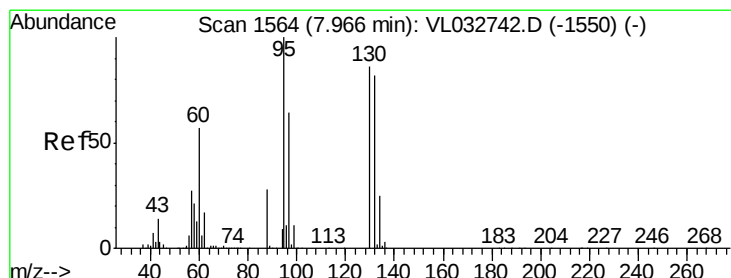
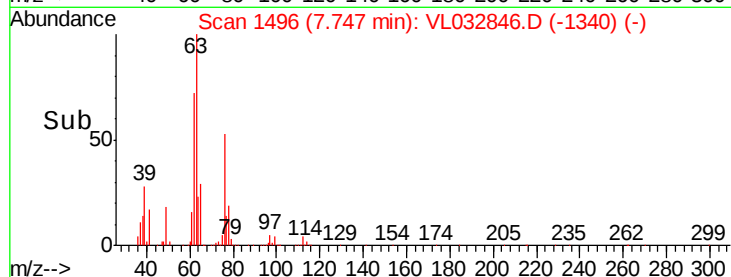
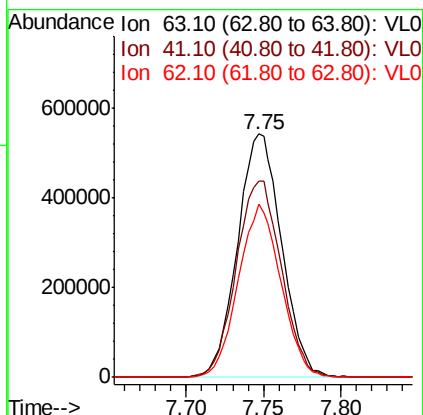
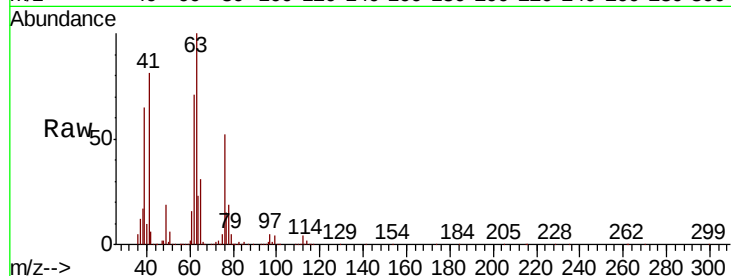
#39
 1,2-Dichloropropane
 Concen: 9.519 ppbv
 RT: 7.75 min Scan# 1496
 Delta R.T. 0.00 min
 Lab File: VL032846.D
 Acq: 30 Nov 2018 11:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	80.7	62.0	93.0
62	71.2	55.4	83.2

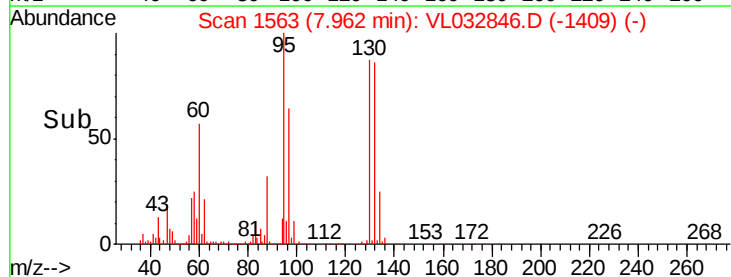
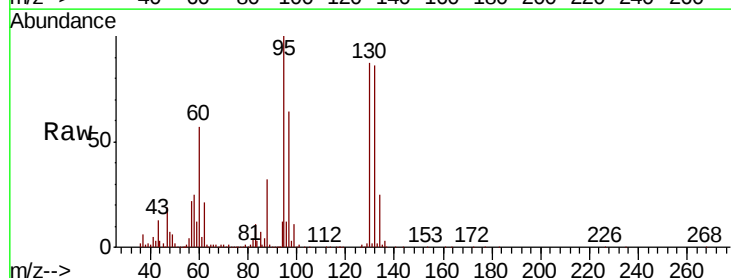
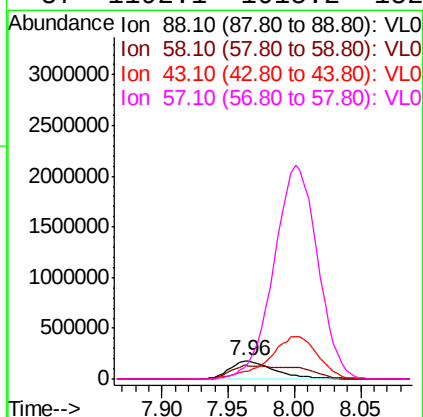
Manual Integrations
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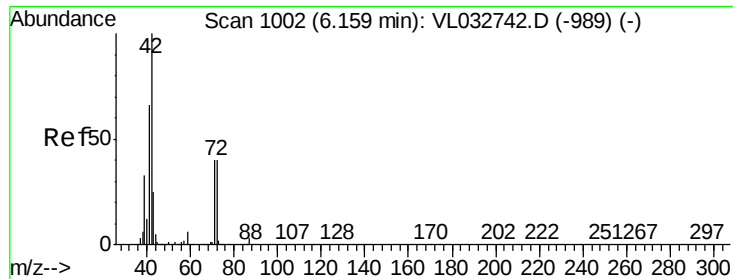
MMDadoda
 12/3/2018 4:14:55 PM



#40
 1,4-Dioxane
 Concen: 10.178 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. -0.00 min
 Lab File: VL032846.D
 Acq: 30 Nov 2018 11:16

Tgt Ion	Ratio	Lower	Upper
88	100		
58	126.2	105.3	157.9
43	266.6	226.1	339.1
57	1192.1	1015.2	1522.8





#41

Tetrahydrofuran

Concen: 9.937 ppbv

RT: 6.16 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VL032846.D

Acq: 30 Nov 2018 11:16

Instrument :

MSVOA_L

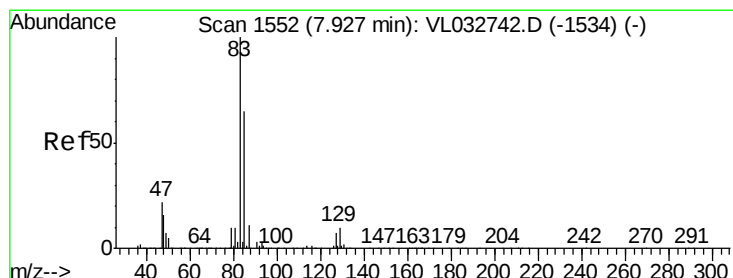
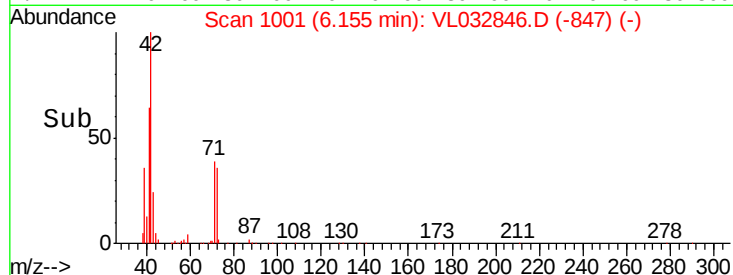
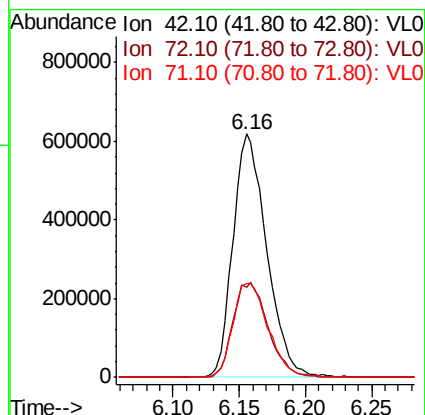
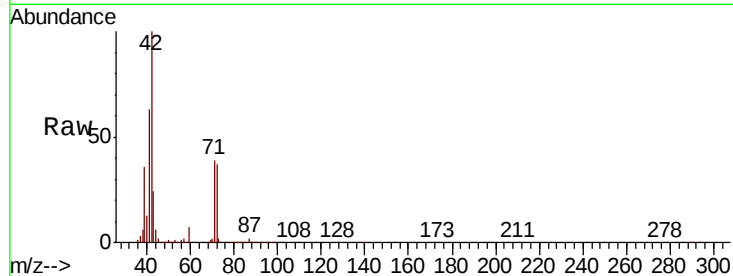
ClientSampleId :

VSTDCCC010

Tot Ion:	42	Resp:	1096516
Ion	Ratio	Lower	Upper
42	100		
72	40.8	32.4	48.6
71	40.5	31.6	47.4

Manual Integrations
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#42

Bromodichloromethane

Concen: 9.796 ppbv

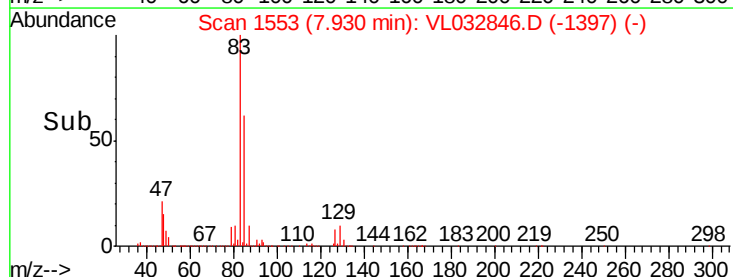
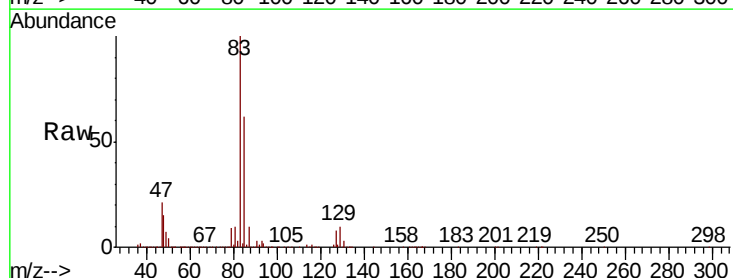
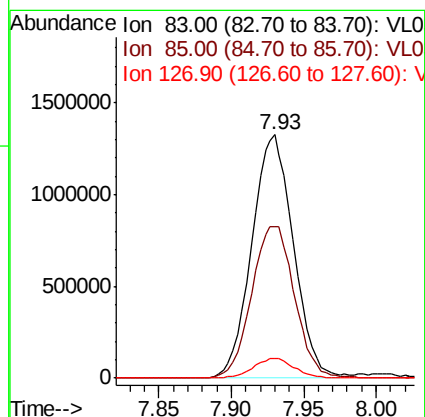
RT: 7.93 min Scan# 1553

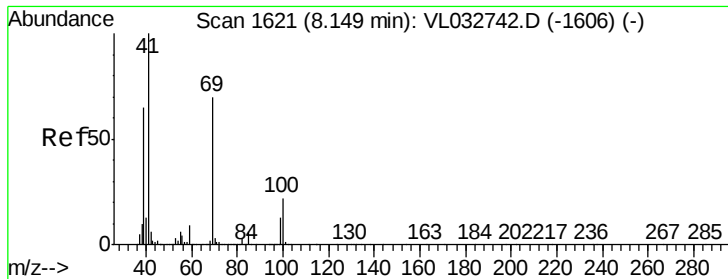
Delta R.T. 0.00 min

Lab File: VL032846.D

Acq: 30 Nov 2018 11:16

Tgt Ion:	83	Resp:	2640329
Ion	Ratio	Lower	Upper
83	100		
85	62.2	51.8	77.8
127	7.9	5.9	8.9





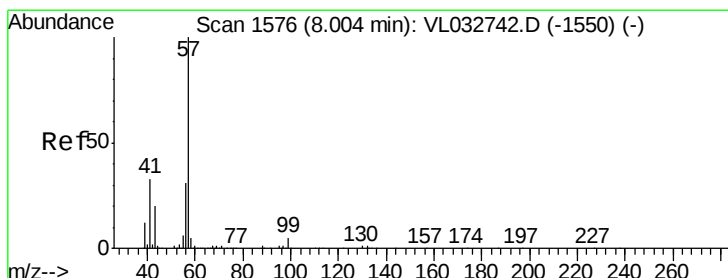
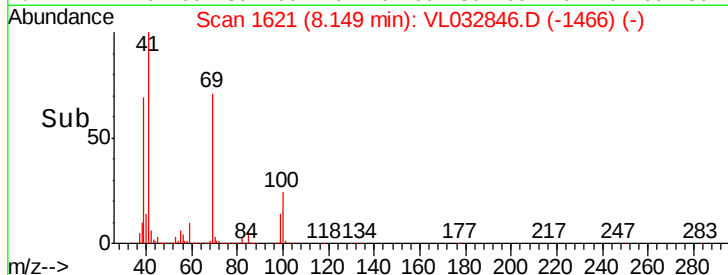
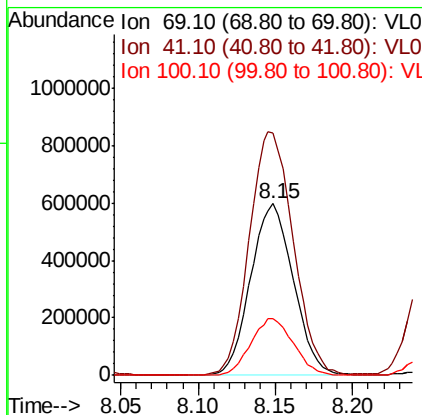
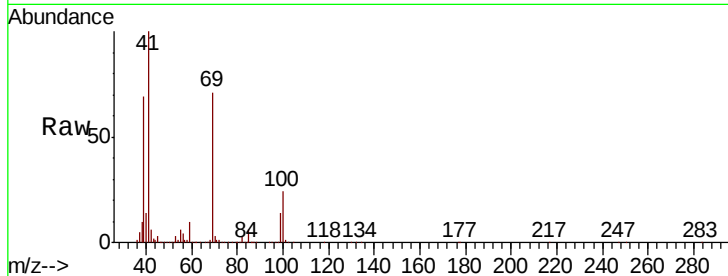
#43
Methyl Methacrylate
Concen: 10.416 ppbv
RT: 8.15 min Scan# 1621
Delta R.T. -0.00 min
Lab File: VL032846.D
Acq: 30 Nov 2018 11:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 69 Resp: 1148522
Ion Ratio Lower Upper
69 100
41 145.5 115.0 172.4
100 33.2 25.4 38.0

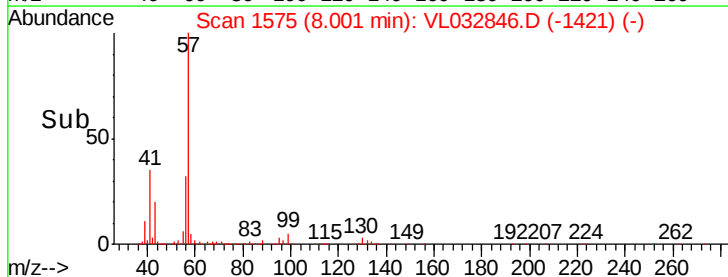
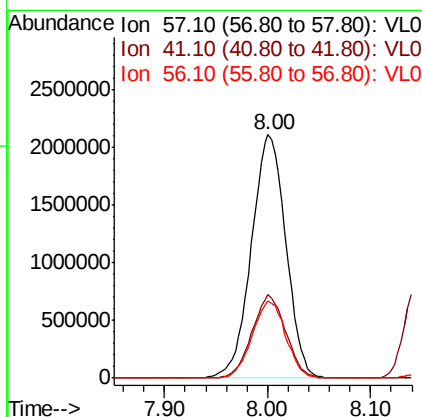
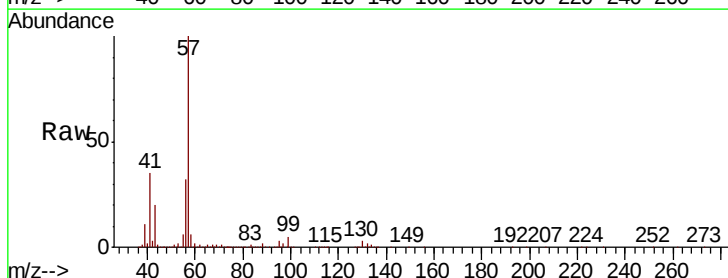
Manual Integrations
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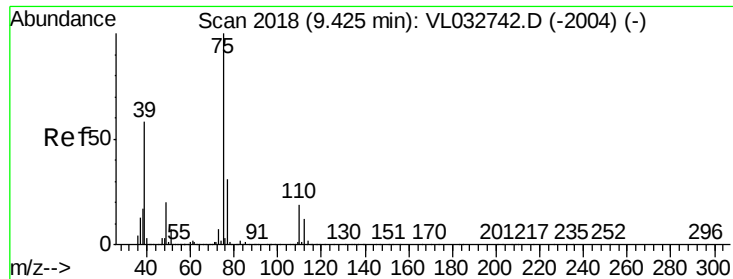
MMDadoda
12/3/2018 4:14:55 PM



#44
2,2,4-Trimethylpentane
Concen: 9.871 ppbv
RT: 8.00 min Scan# 1575
Delta R.T. -0.00 min
Lab File: VL032846.D
Acq: 30 Nov 2018 11:16

Tgt Ion: 57 Resp: 4871937
Ion Ratio Lower Upper
57 100
41 33.5 26.6 39.8
56 30.9 24.8 37.2





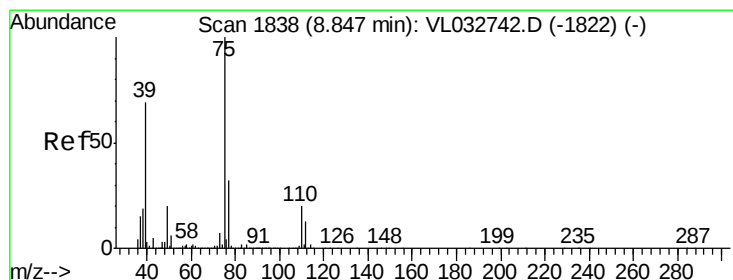
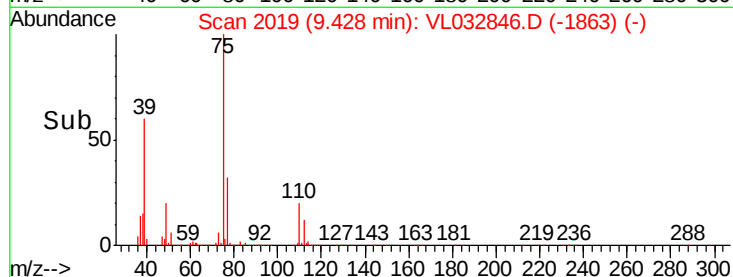
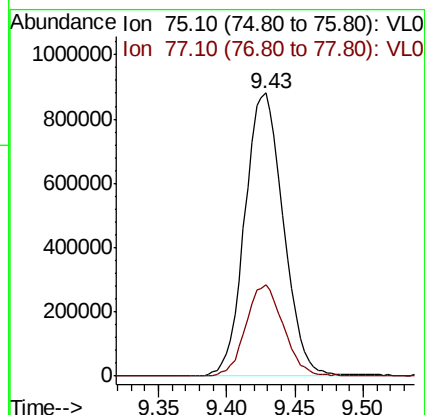
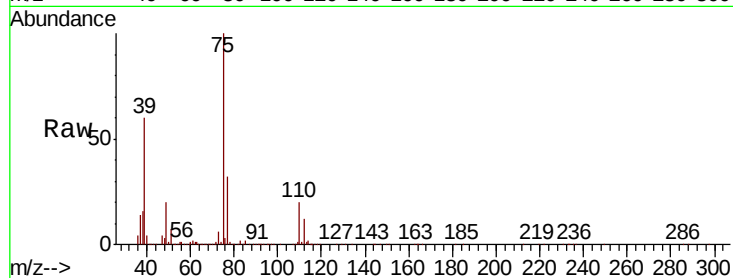
#45
t-1,3-Dichloropropene
Concen: 11.667 ppbv
RT: 9.43 min Scan# 2019
Delta R.T. 0.00 min
Lab File: VL032846.D
Acq: 30 Nov 2018 11:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 75 Resp: 1726304
Ion Ratio Lower Upper
75 100
77 32.3 24.6 36.8

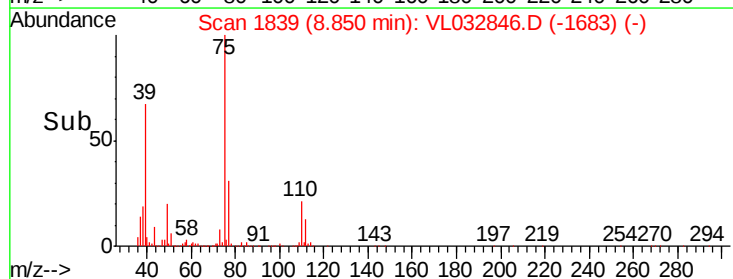
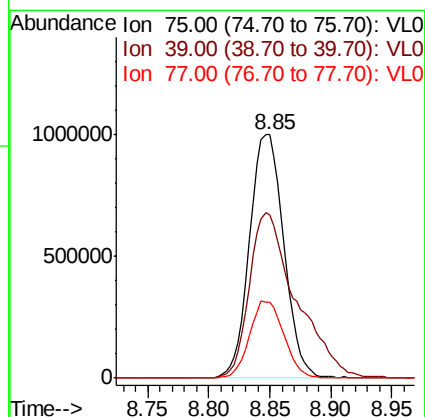
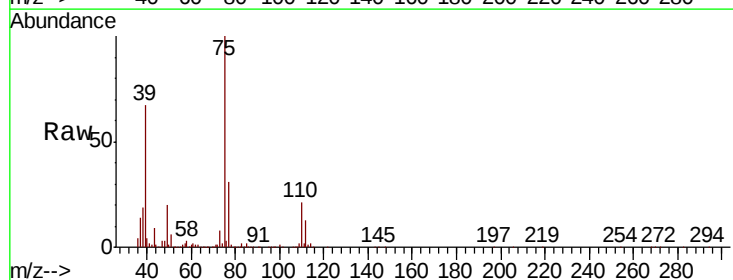
Manual Integrations
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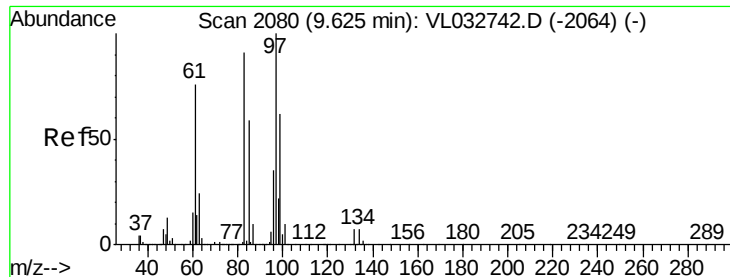
MMDadoda
12/3/2018 4:14:55 PM



#46
cis-1,3-Dichloropropene
Concen: 10.823 ppbv
RT: 8.85 min Scan# 1839
Delta R.T. 0.00 min
Lab File: VL032846.D
Acq: 30 Nov 2018 11:16

Tgt Ion: 75 Resp: 1934684
Ion Ratio Lower Upper
75 100
39 67.0 55.2 82.8
77 31.4 25.8 38.6





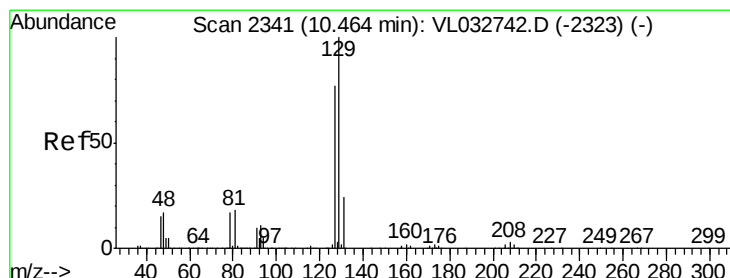
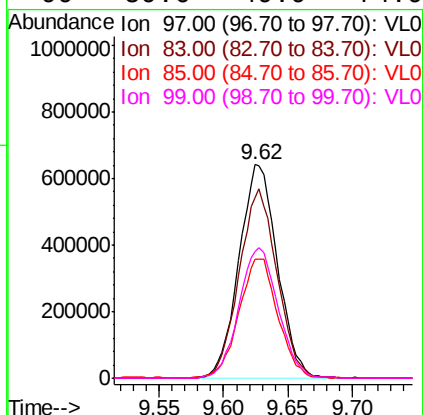
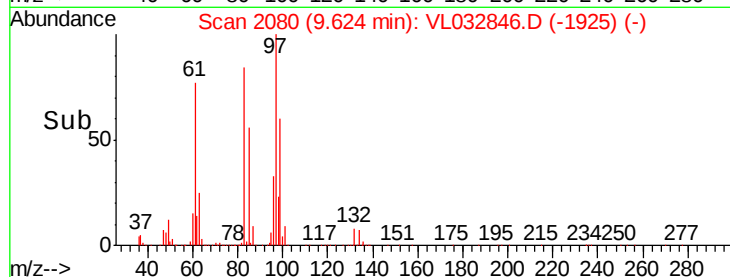
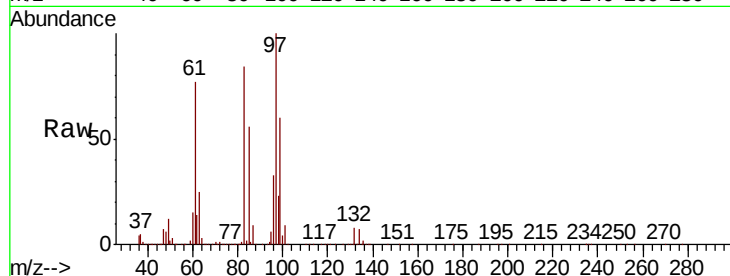
#47
 1,1,2-Trichloroethane
 Concen: 10.019 ppbv
 RT: 9.62 min Scan# 2080
 Delta R.T. -0.00 min
 Lab File: VL032846.D
 Acq: 30 Nov 2018 11:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
97	100		
83	84.4	73.0	109.4
85	55.5	47.0	70.4
99	59.6	49.9	74.9

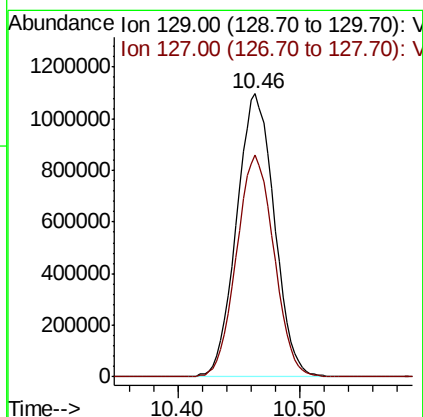
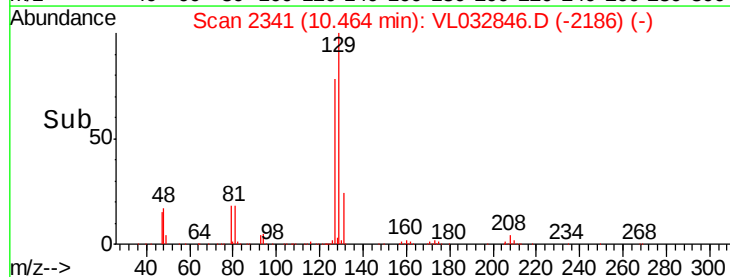
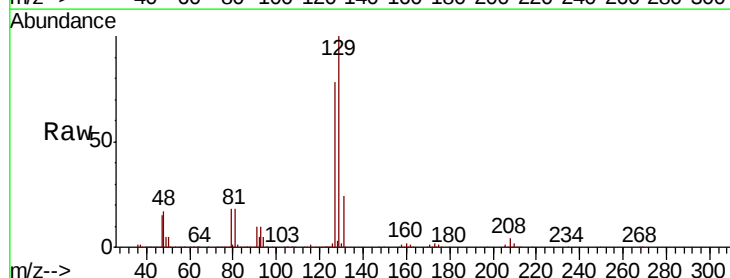
Manual Integrations
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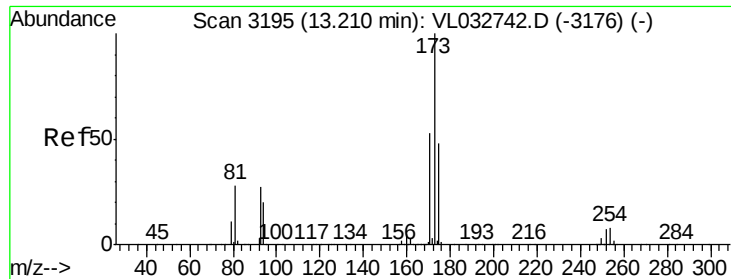
MMDadoda
 12/3/2018 4:14:55 PM



#48
 Dibromochloromethane
 Concen: 10.345 ppbv
 RT: 10.46 min Scan# 2341
 Delta R.T. -0.00 min
 Lab File: VL032846.D
 Acq: 30 Nov 2018 11:16

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.9	39.0	117.0





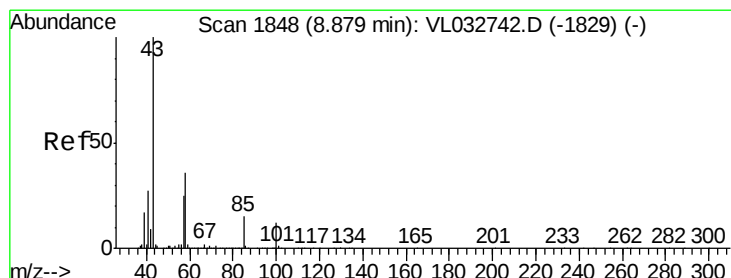
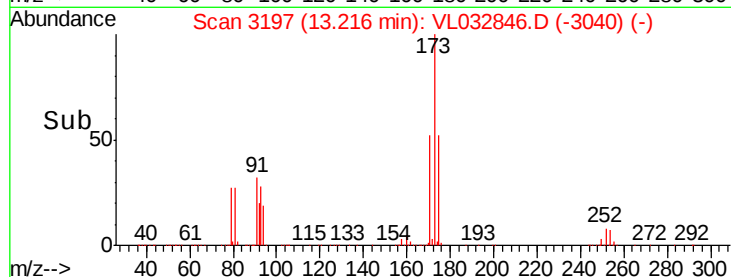
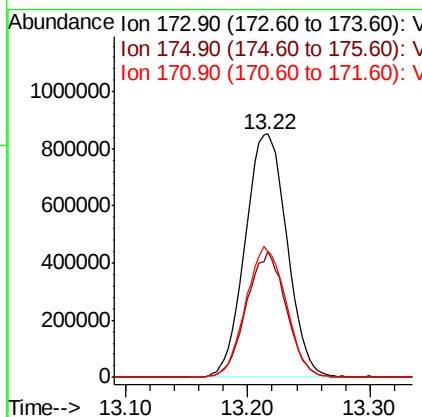
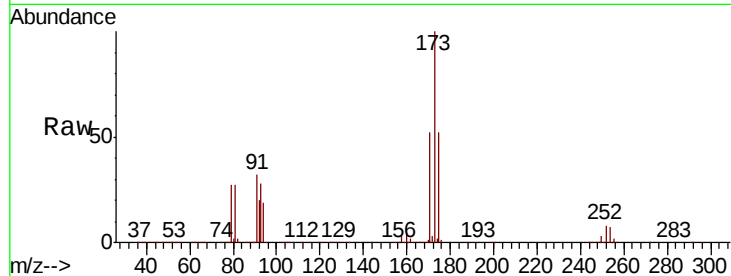
#49
Bromoform
Concen: 10.819 ppbv
RT: 13.22 min Scan# 3197
Delta R.T. 0.01 min
Lab File: VL032846.D
Acq: 30 Nov 2018 11:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:173 Resp: 2020804
Ion Ratio Lower Upper
173 100
175 48.9 39.4 59.0
171 51.8 42.0 63.0

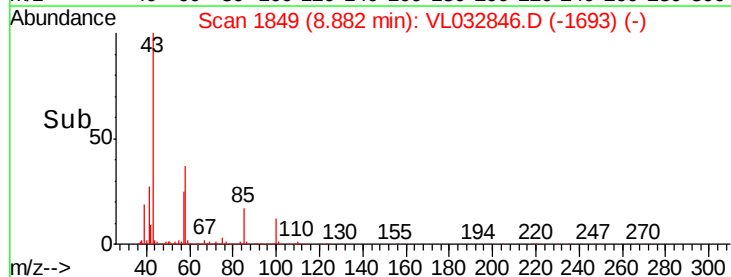
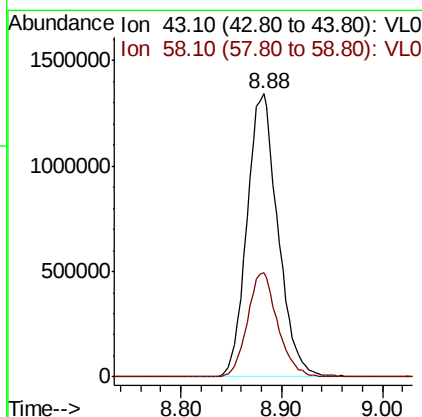
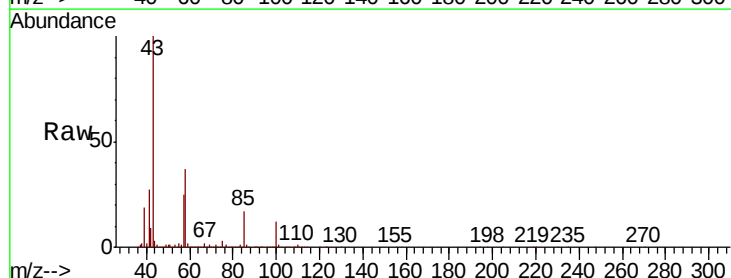
Manual Integrations
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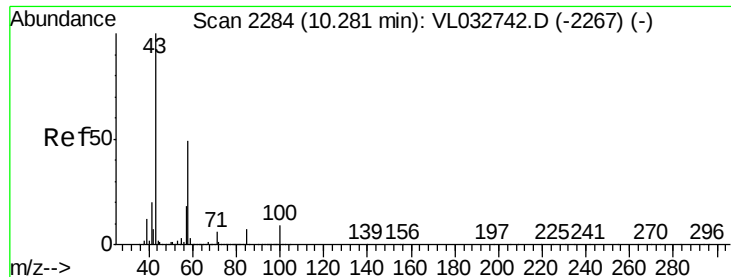
MMDadoda
12/3/2018 4:14:55 PM



#50
4-Methyl-2-Pentanone
Concen: 9.472 ppbv
RT: 8.88 min Scan# 1849
Delta R.T. 0.00 min
Lab File: VL032846.D
Acq: 30 Nov 2018 11:16

Tgt Ion: 43 Resp: 2846185
Ion Ratio Lower Upper
43 100
58 36.0 28.8 43.2





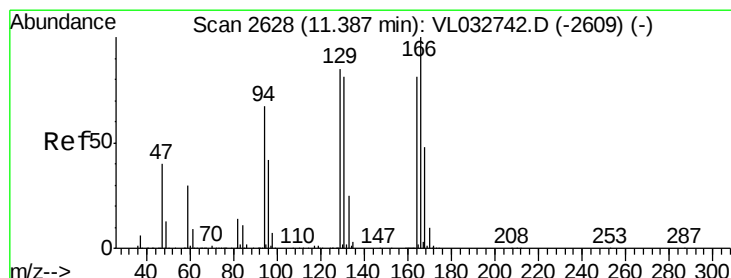
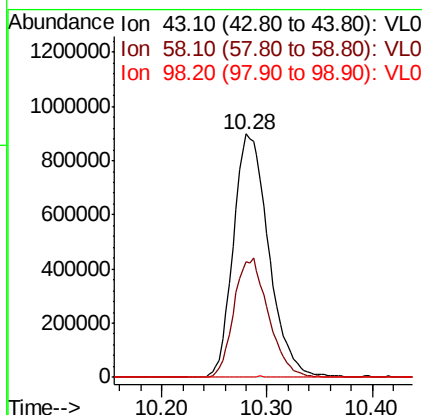
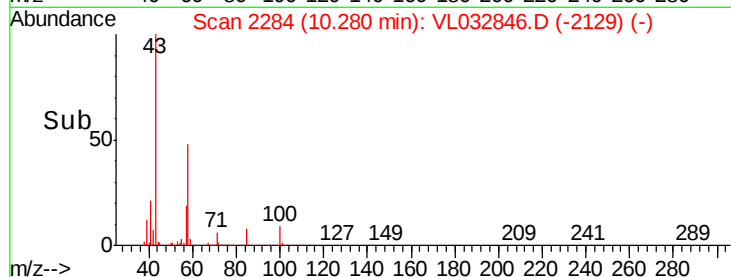
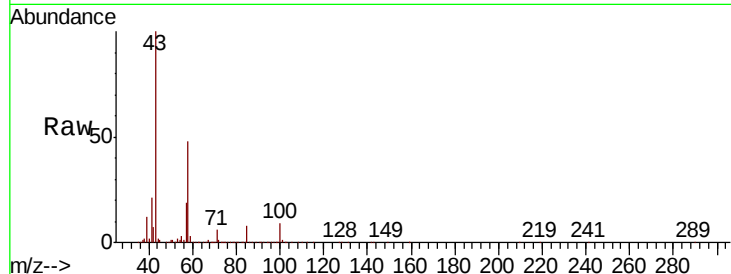
#51
2-Hexanone
Concen: 10.771 ppbv
RT: 10.28 min Scan# 2284
Delta R.T. -0.00 min
Lab File: VL032846.D
Acq: 30 Nov 2018 11:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 2085087
Ion Ratio Lower Upper
43 100
58 48.2 38.9 58.3
98 0.5 0.2 0.4#

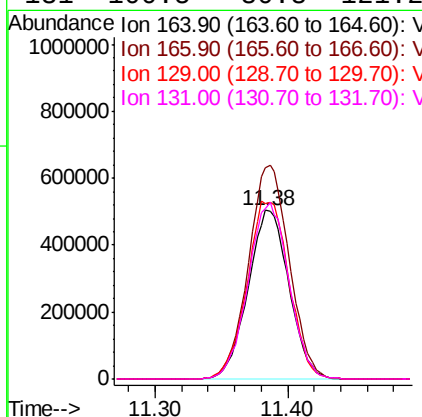
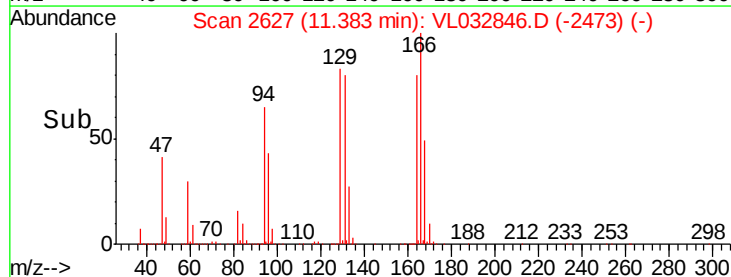
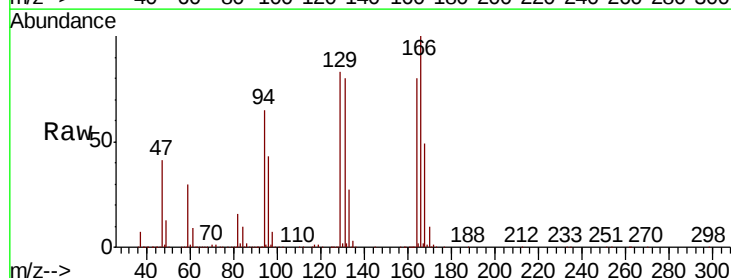
Manual Integrations
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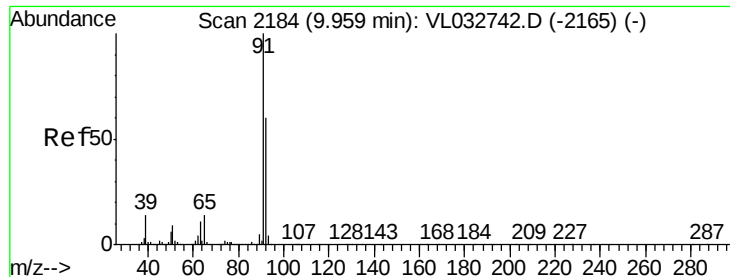
MMDadoda
12/3/2018 4:14:55 PM



#52
Tetrachloroethene
Concen: 10.468 ppbv
RT: 11.38 min Scan# 2627
Delta R.T. -0.00 min
Lab File: VL032846.D
Acq: 30 Nov 2018 11:16

Tgt Ion: 164 Resp: 1075586
Ion Ratio Lower Upper
164 100
166 125.0 99.3 148.9
129 104.0 83.9 125.9
131 100.5 80.8 121.2





#53

Toluene

Concen: 10.993 ppbv

RT: 9.96 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL032846.D

Acq: 30 Nov 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3387261

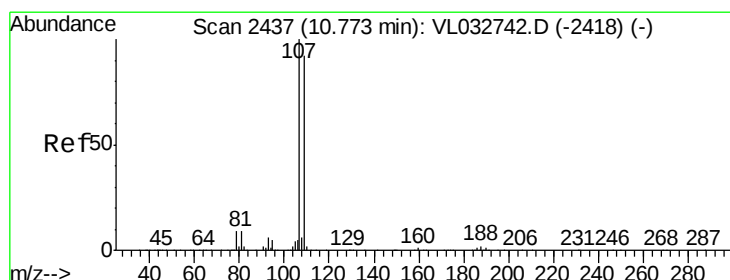
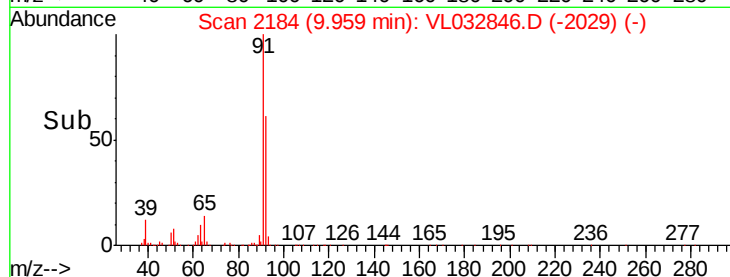
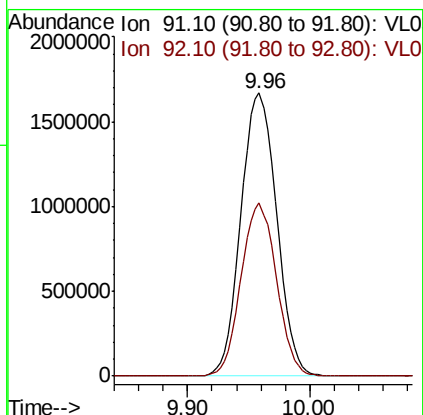
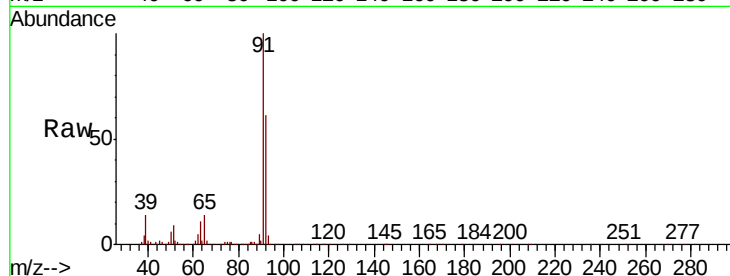
Ion Ratio Lower Upper

91 100

92 60.3 47.9 71.9

Manual Integrations
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12/3/2018 4:14:55 PM



#54

1,2-Dibromoethane

Concen: 10.309 ppbv

RT: 10.77 min Scan# 2437

Delta R.T. -0.00 min

Lab File: VL032846.D

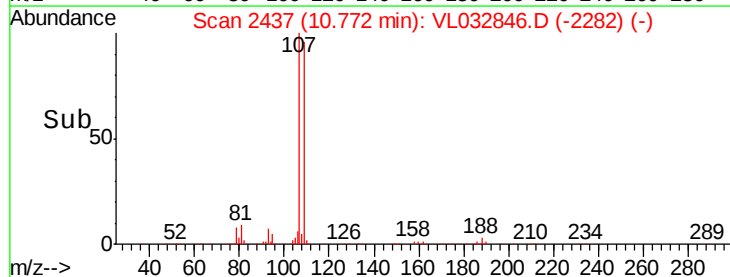
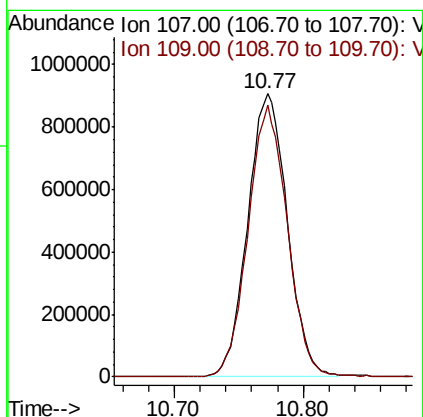
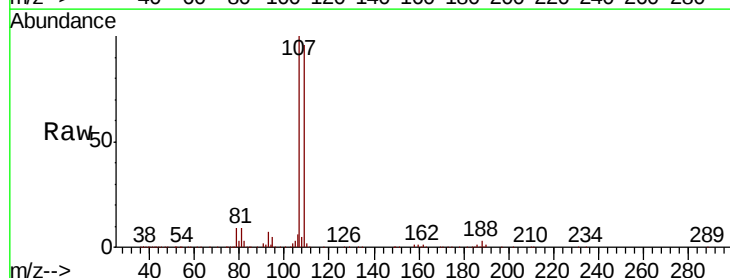
Acq: 30 Nov 2018 11:16

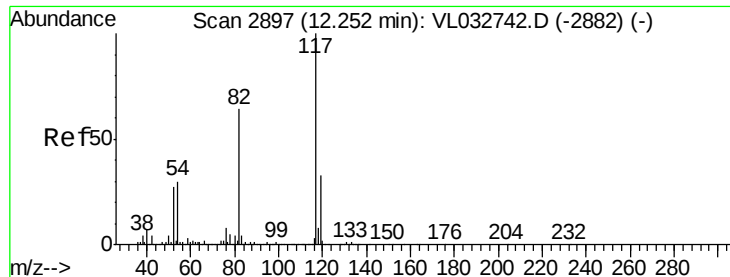
Tgt Ion: 107 Resp: 1939101

Ion Ratio Lower Upper

107 100

109 96.1 73.8 110.8





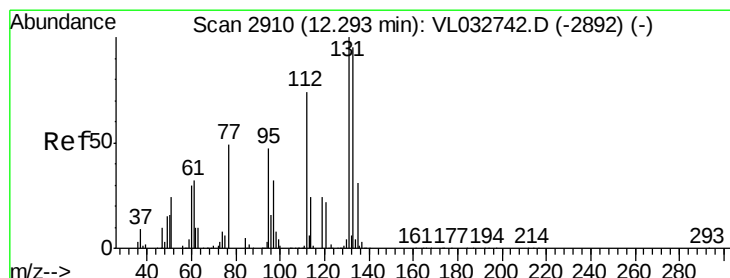
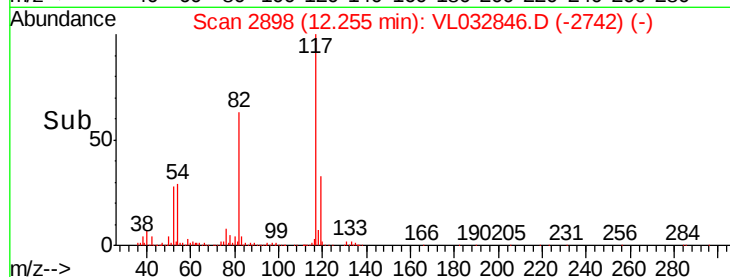
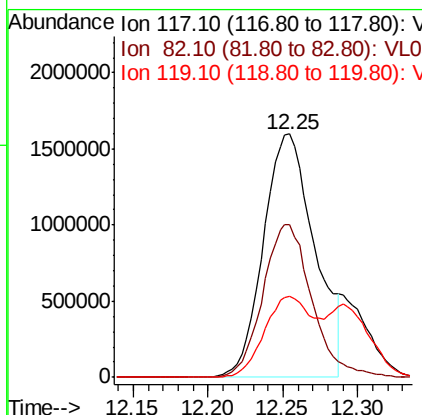
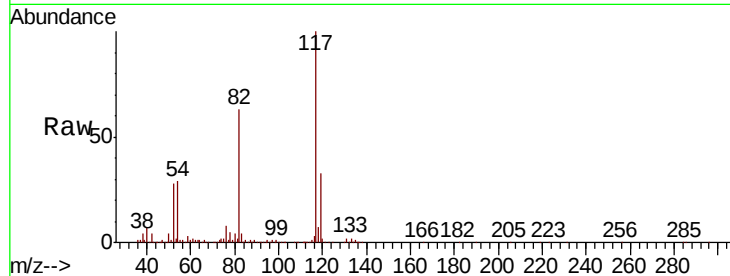
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2898
Delta R.T. 0.00 min
Lab File: VL032846.D
Acq: 30 Nov 2018 11:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
117	100		
82	60.3	51.0	76.6
119	29.1	28.0	42.0

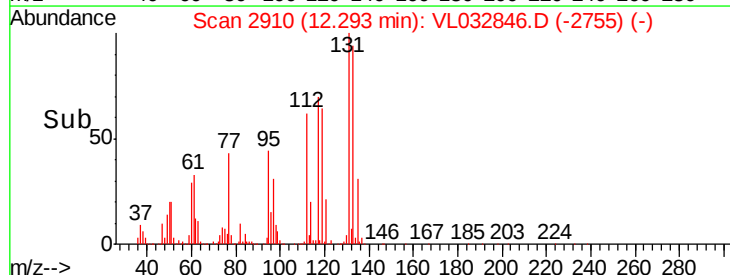
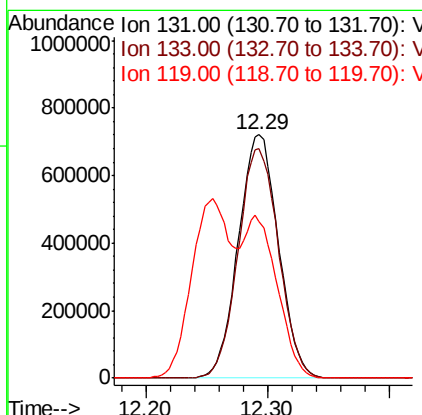
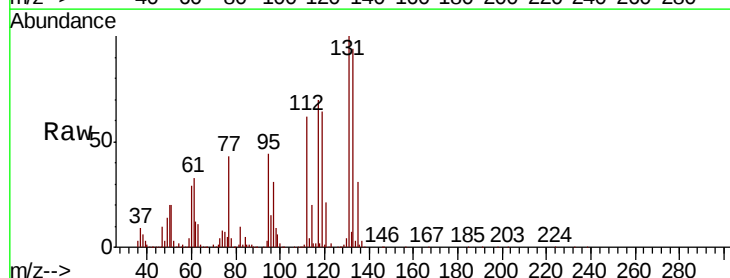
Manual Integrations
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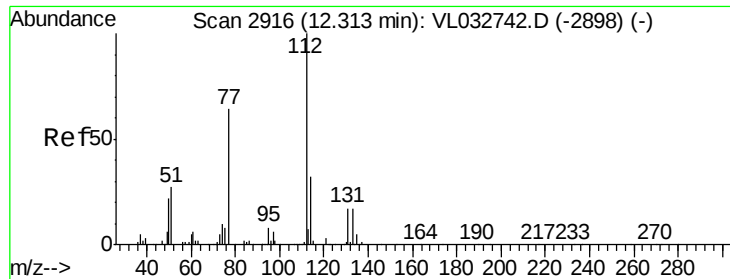
MMDadoda
12/3/2018 4:14:55 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 9.206 ppbv
RT: 12.29 min Scan# 2910
Delta R.T. -0.00 min
Lab File: VL032846.D
Acq: 30 Nov 2018 11:16

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.6	75.8	113.6
119	54.5	45.2	67.8





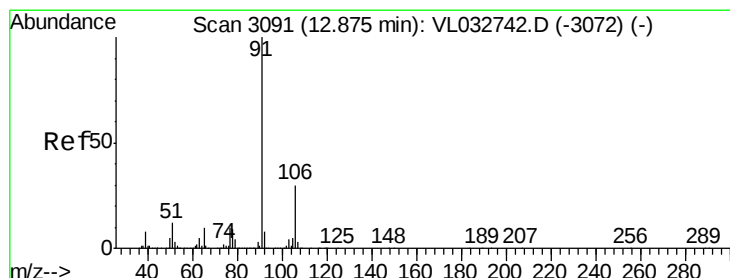
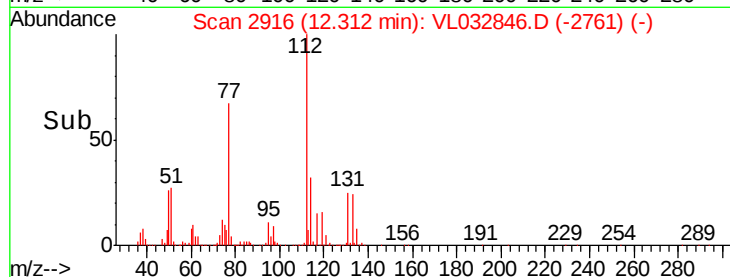
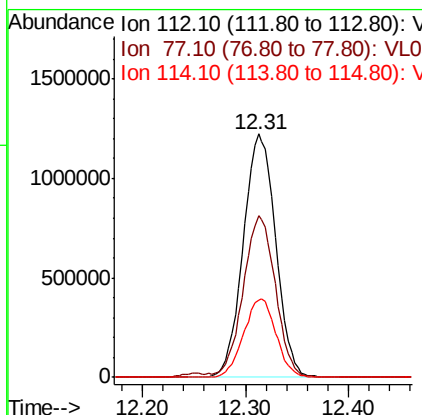
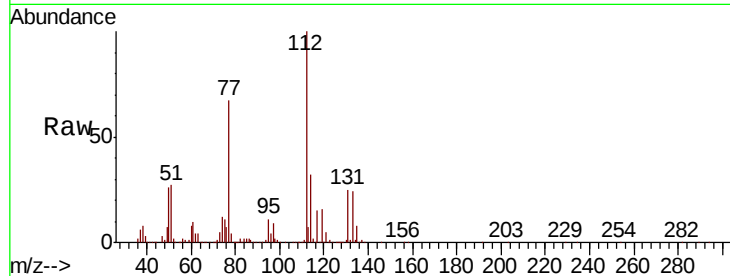
#57
Chlorobenzene
Concen: 9.161 ppbv
RT: 12.31 min Scan# 2916
Delta R.T. -0.00 min
Lab File: VL032846.D
Acq: 30 Nov 2018 11:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
112	100		
77	66.5	52.3	78.5
114	31.5	28.4	34.8

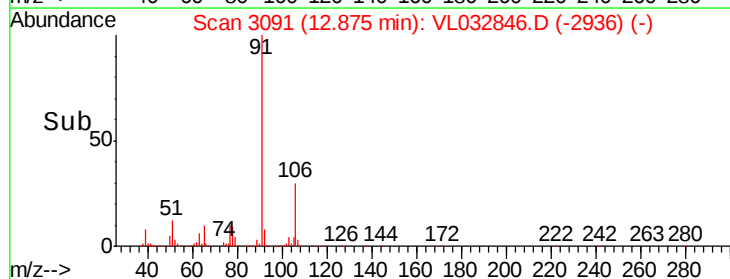
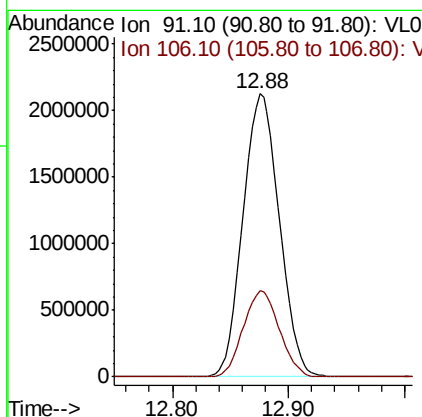
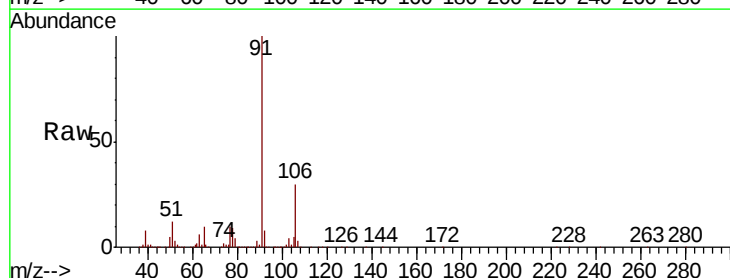
Manual Integrations
APPROVED

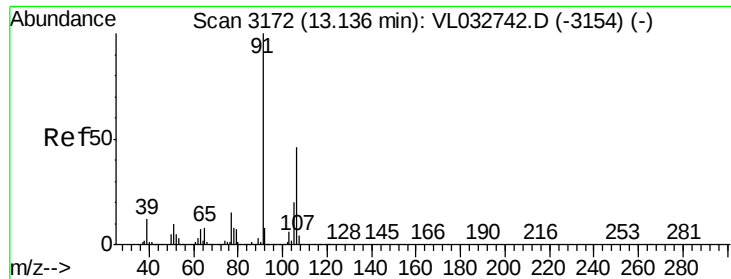
MMDadoda
12/3/2018 4:14:55 PM



#58
Ethyl Benzene
Concen: 10.116 ppbv
RT: 12.88 min Scan# 3091
Delta R.T. -0.00 min
Lab File: VL032846.D
Acq: 30 Nov 2018 11:16

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.3	23.6	35.4





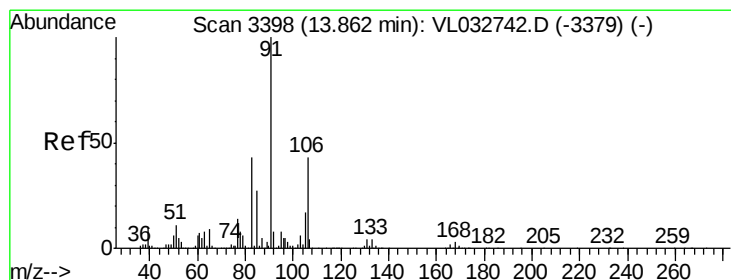
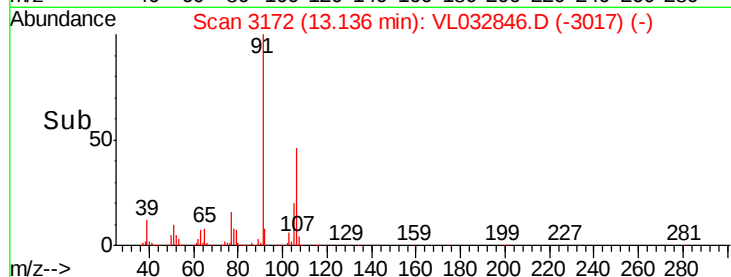
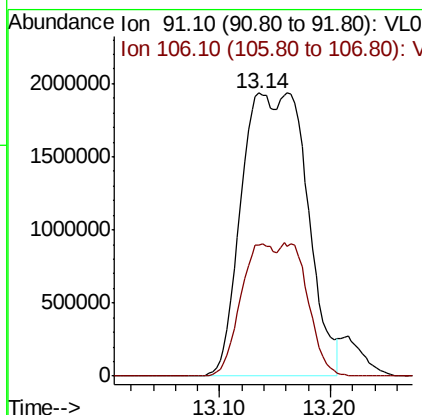
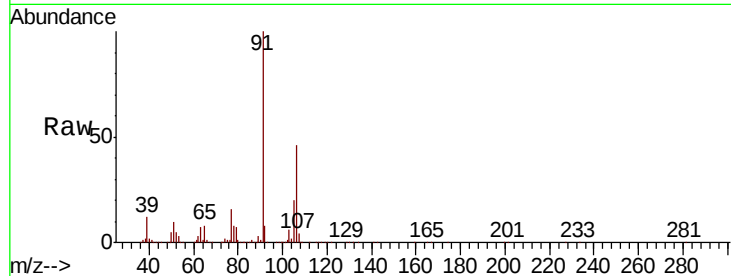
#59
m/p-Xylene
Concen: 19.434 ppbv m
RT: 13.14 min Scan# 3172
Delta R.T. -0.00 min
Lab File: VL032846.D
Acq: 30 Nov 2018 11:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 7929400
Ion Ratio Lower Upper
91 100
106 0.0 36.1 54.1#

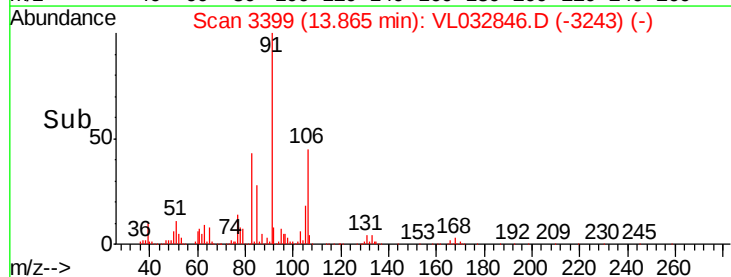
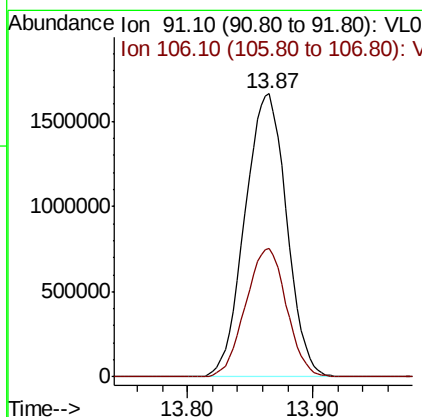
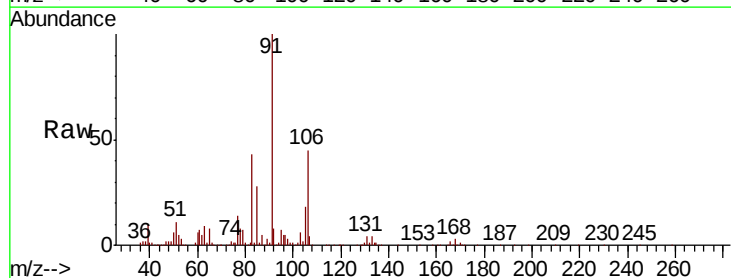
Manual Integrations
APPROVED

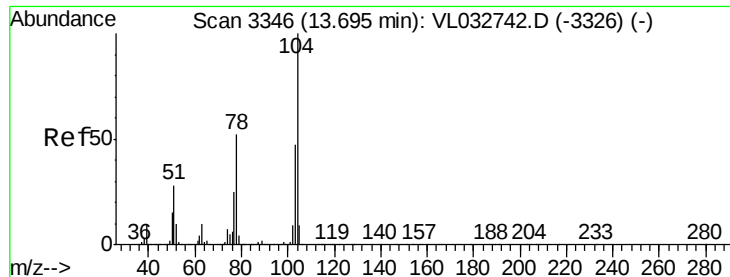
MMDadoda
12/3/2018 4:14:55 PM



#60
o-Xylene
Concen: 9.351 ppbv
RT: 13.87 min Scan# 3399
Delta R.T. 0.00 min
Lab File: VL032846.D
Acq: 30 Nov 2018 11:16

Tgt Ion: 91 Resp: 3836484
Ion Ratio Lower Upper
91 100
106 44.6 21.9 65.7





#61

Stvrene

Concen: 10.630 ppbv

RT: 13.70 min Scan# 3348

Delta R.T. 0.01 min

Lab File: VL032846.D

Acq: 30 Nov 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:104 Resp: 2839072

Ion Ratio Lower Upper

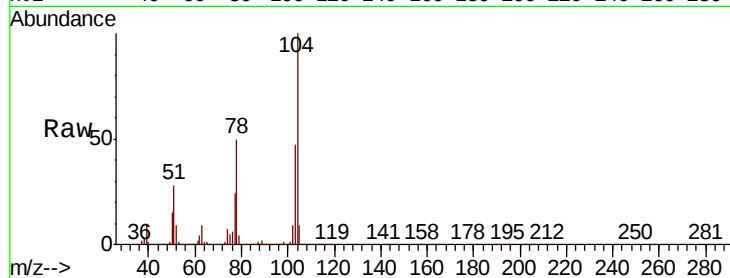
104 100

78 52.3 42.2 63.4

103 48.0 38.2 57.2

Manual Integrations
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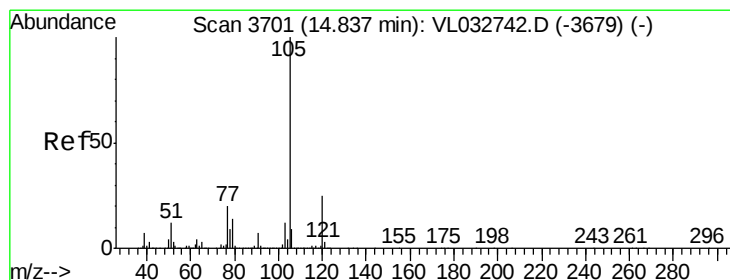
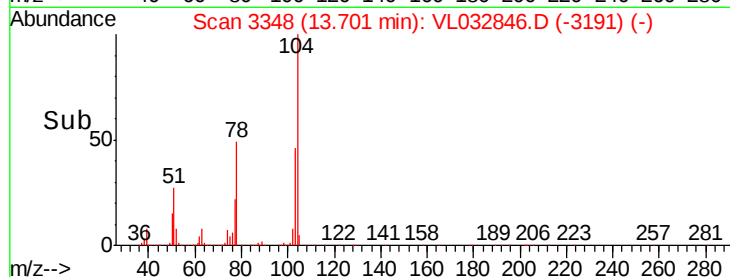
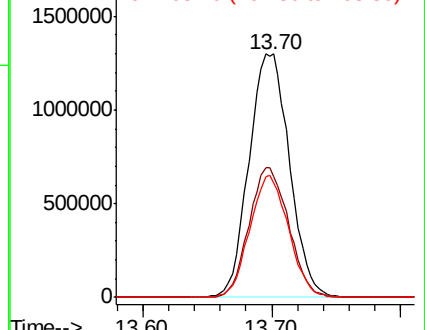
MMDadoda
12/3/2018 4:14:55 PM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.944 ppbv

RT: 14.84 min Scan# 3701

Delta R.T. -0.00 min

Lab File: VL032846.D

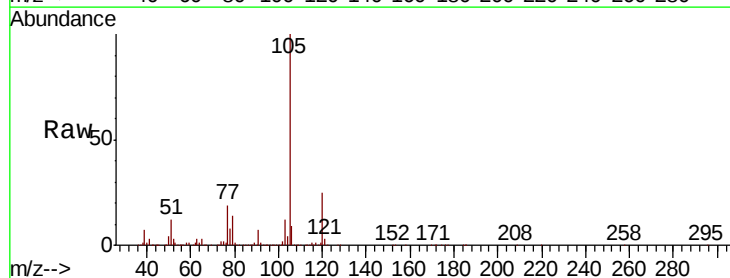
Acq: 30 Nov 2018 11:16

Tgt Ion:105 Resp: 5514294

Ion Ratio Lower Upper

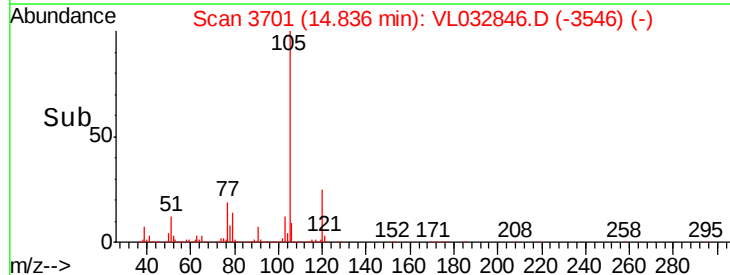
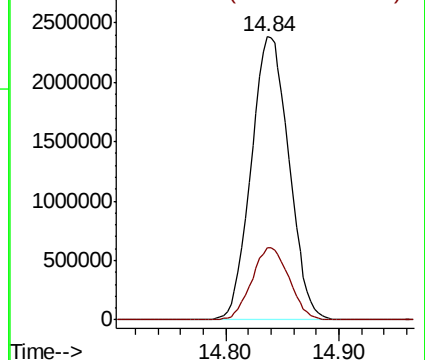
105 100

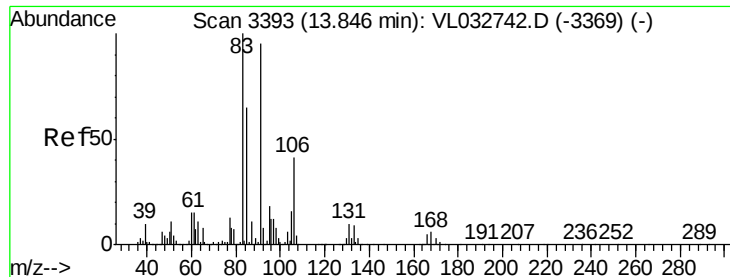
120 25.3 20.1 30.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





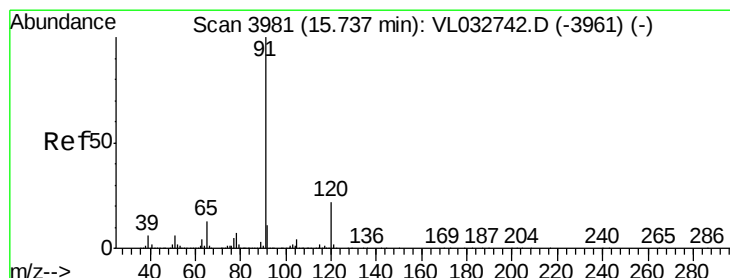
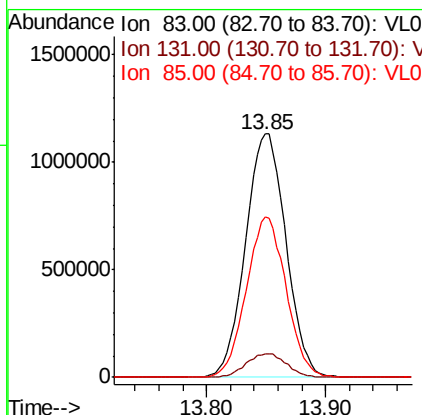
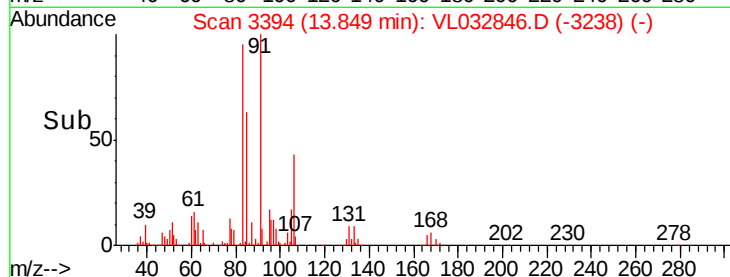
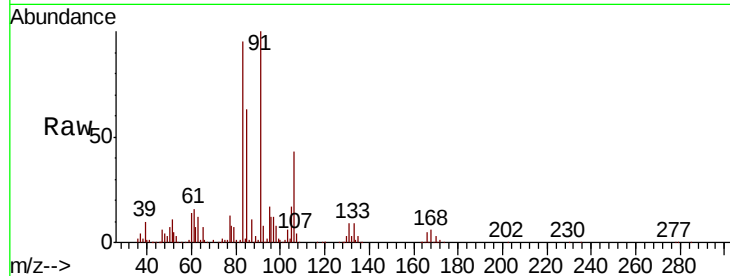
#63
1,1,2,2-Tetrachloroethane
Concen: 8.330 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. 0.00 min
Lab File: VL032846.D
Acq: 30 Nov 2018 11:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 2664048
Ion Ratio Lower Upper
83 100
131 9.7 4.7 14.1
85 64.7 32.5 97.4

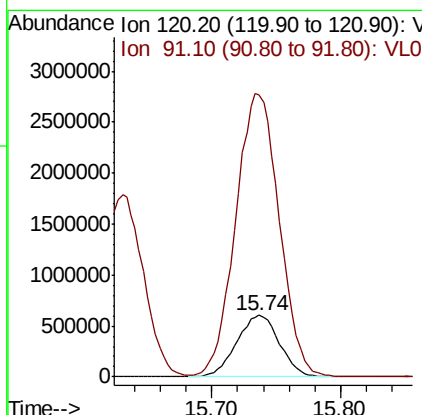
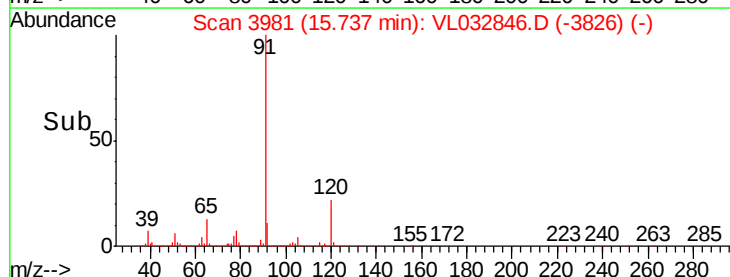
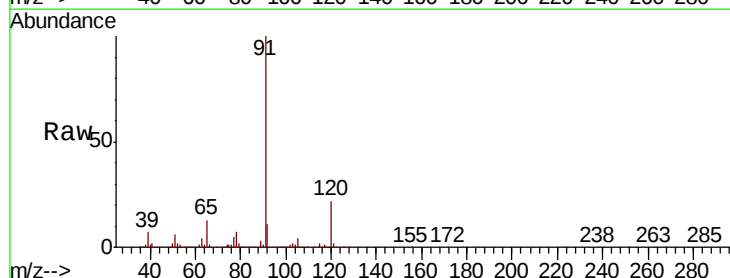
Manual Integrations
APPROVED

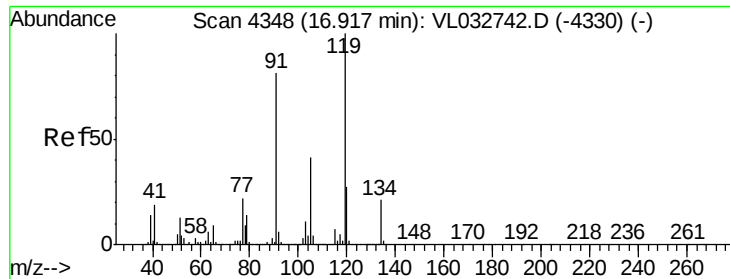
MMDadoda
12/3/2018 4:14:55 PM



#64
n-propylbenzene
Concen: 9.564 ppbv
RT: 15.74 min Scan# 3981
Delta R.T. -0.00 min
Lab File: VL032846.D
Acq: 30 Nov 2018 11:16

Tgt Ion: 120 Resp: 1395026
Ion Ratio Lower Upper
120 100
91 469.9 381.7 572.5





#65

tert-Butylbenzene

Concen: 9.847 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. 0.01 min

Lab File: VL032846.D

Acq: 30 Nov 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:119 Resp: 4894666

Ion Ratio Lower Upper

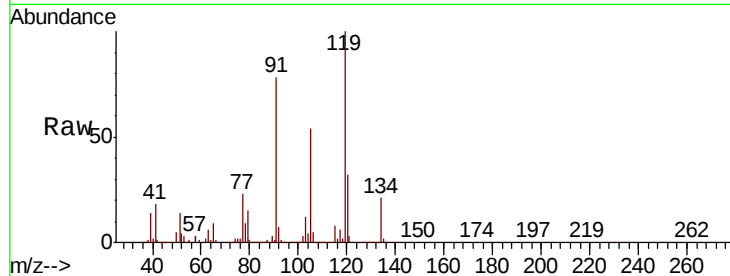
119 100

91 80.8 65.6 98.4

134 20.1 15.9 23.9

Manual Integrations
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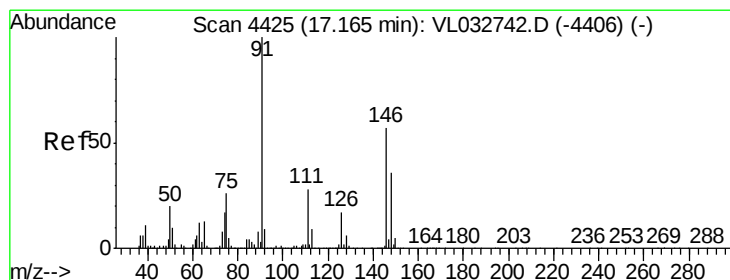
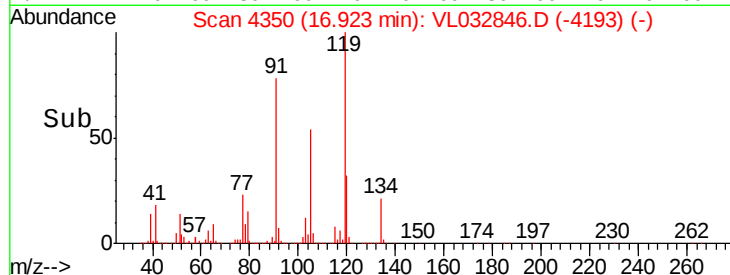
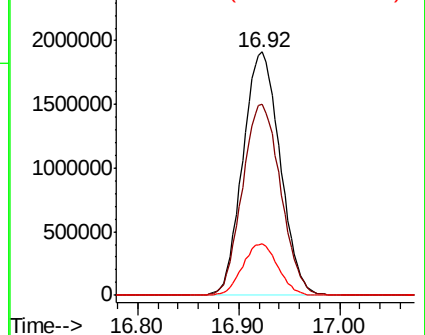
MMDadoda
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 9.883 ppbv

RT: 17.17 min Scan# 4427

Delta R.T. 0.01 min

Lab File: VL032846.D

Acq: 30 Nov 2018 11:16

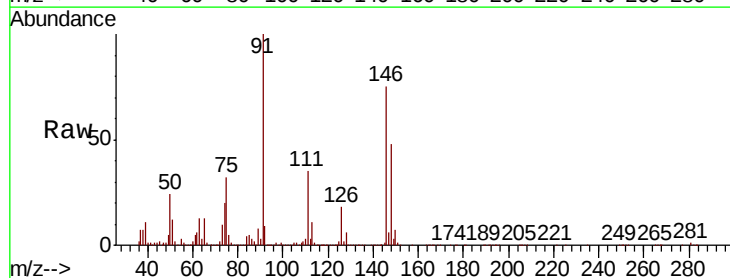
Tgt Ion: 91 Resp: 2716106

Ion Ratio Lower Upper

91 100

126 17.7 14.2 21.2

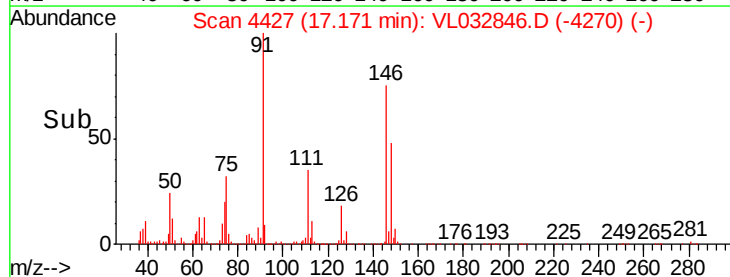
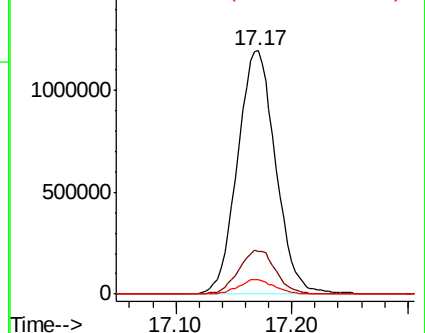
128 5.7 4.5 6.7

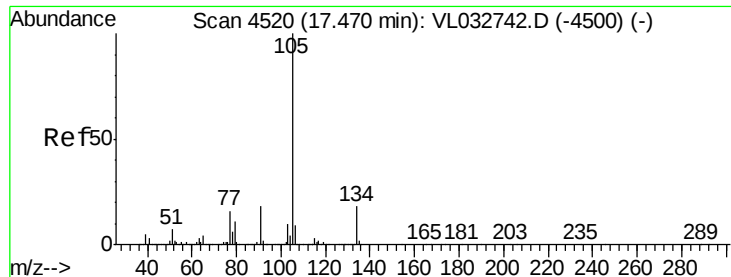


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.564 ppbv

RT: 17.47 min Scan# 4521

Delta R.T. 0.00 min

Lab File: VL032846.D

Acq: 30 Nov 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 105 Resp: 6851326

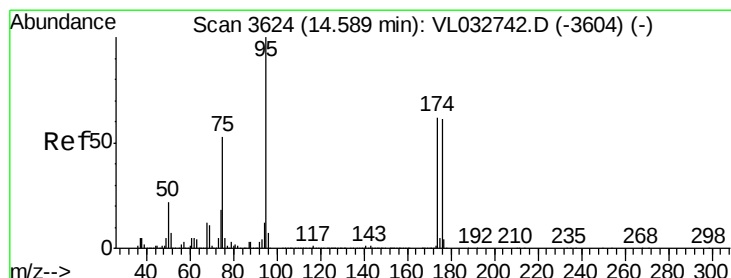
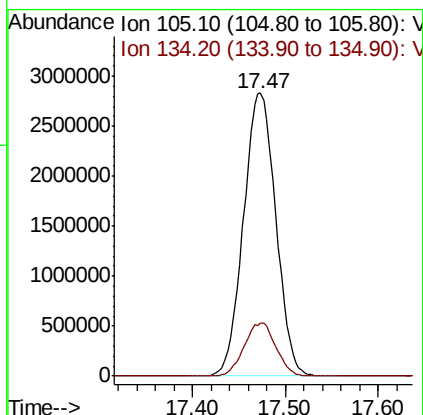
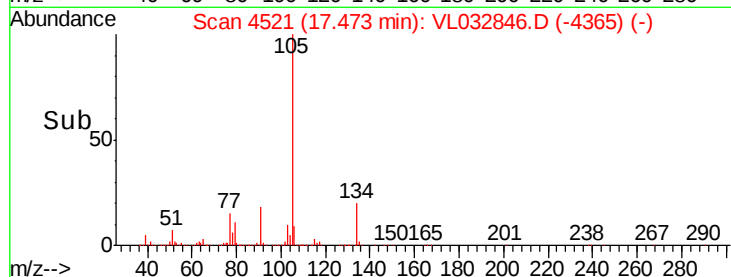
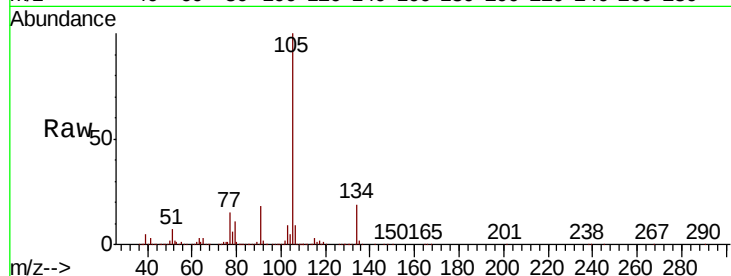
Ion Ratio Lower Upper

105 100

134 18.5 14.6 21.8

Manual Integrations
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#68

1-Bromo-4-Fluorobenzene

Concen: 9.900 ppbv

RT: 14.59 min Scan# 3625

Delta R.T. 0.00 min

Lab File: VL032846.D

Acq: 30 Nov 2018 11:16

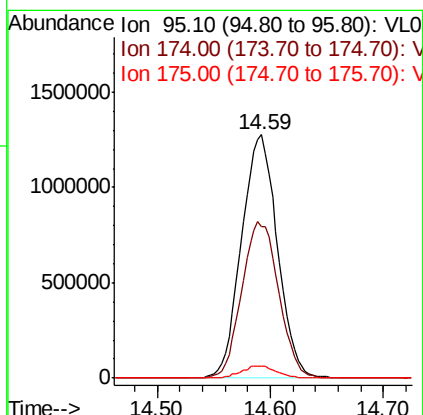
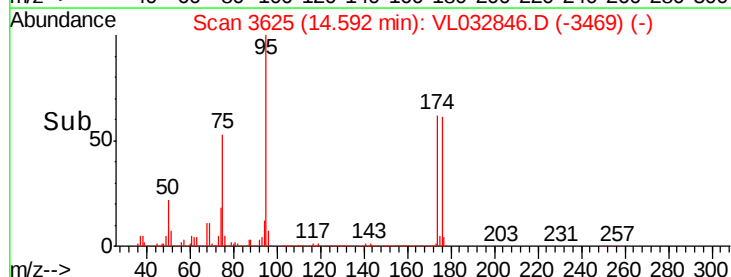
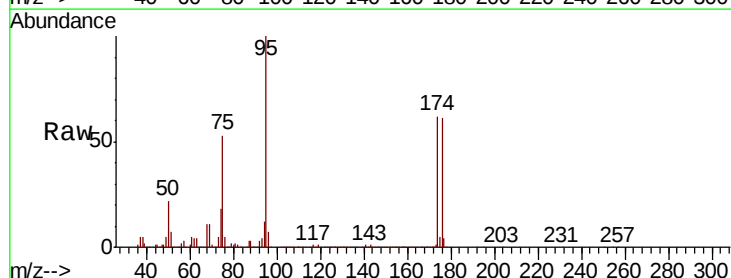
Tgt Ion: 95 Resp: 2819895

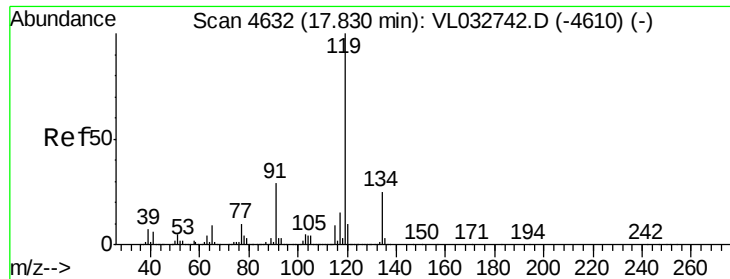
Ion Ratio Lower Upper

95 100

174 66.2 50.7 76.1

175 5.0 3.8 5.6





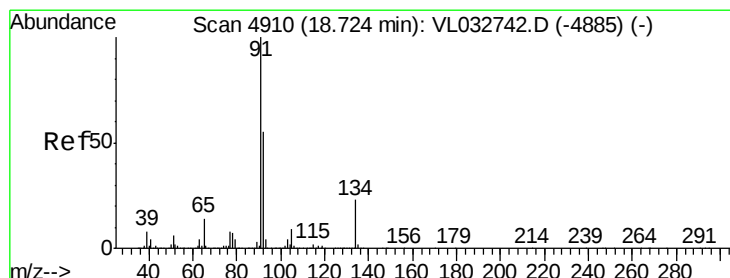
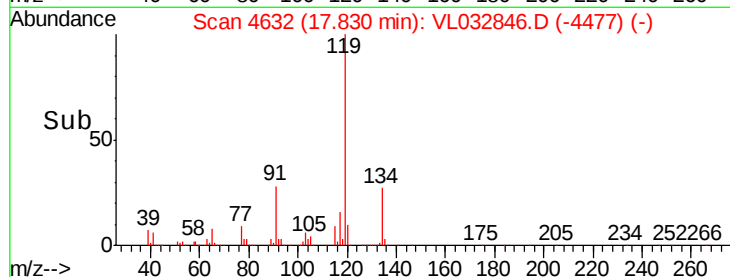
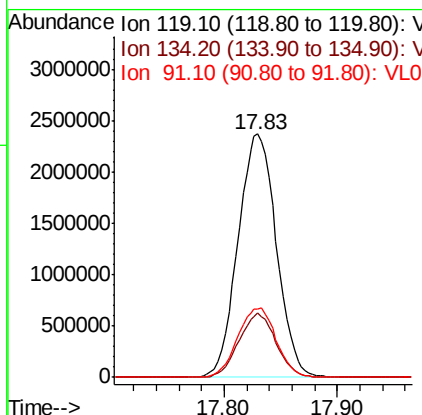
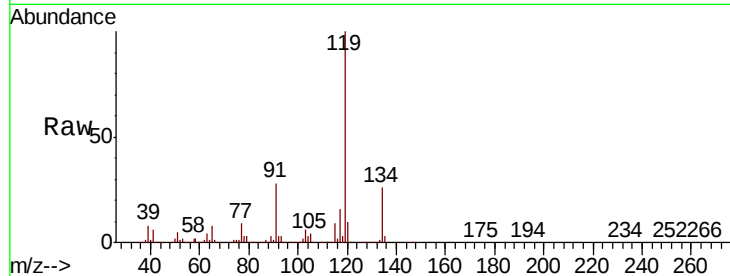
#69
 p-Isopropyltoluene
 Concen: 9.785 ppbv
 RT: 17.83 min Scan# 4632
 Delta R.T. -0.00 min
 Lab File: VL032846.D
 Acq: 30 Nov 2018 11:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.2	30.4
91	28.8	23.5	35.3

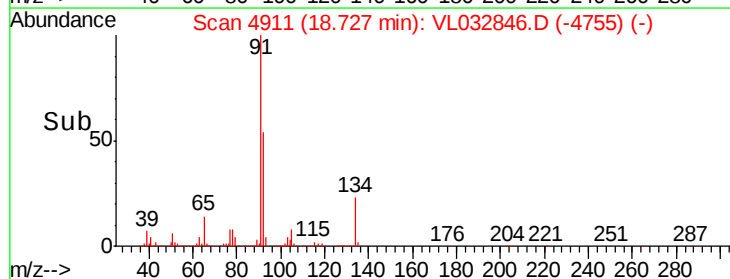
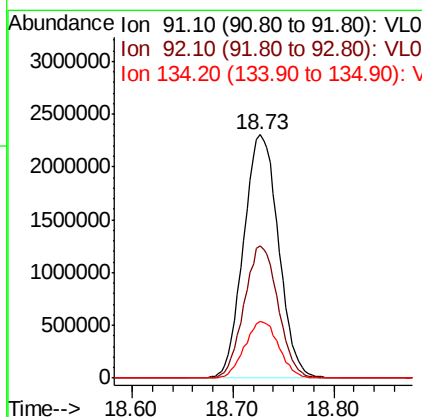
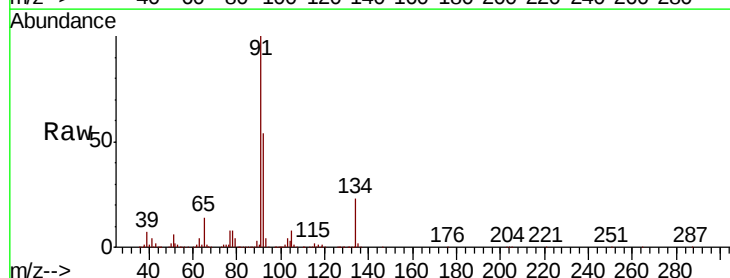
Manual Integrations
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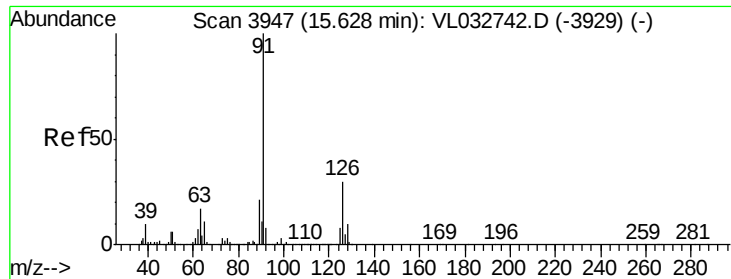
MMDadoda
 12/3/2018 4:14:55 PM



#70
 n-Butylbenzene
 Concen: 9.546 ppbv
 RT: 18.73 min Scan# 4911
 Delta R.T. 0.00 min
 Lab File: VL032846.D
 Acq: 30 Nov 2018 11:16

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.9	42.9	64.3
134	22.7	17.8	26.8





#71

2-Chlorotoluene

Concen: 9.829 ppbv

RT: 15.63 min Scan# 3948

Delta R.T. 0.00 min

Lab File: VL032846.D

Acq: 30 Nov 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 4064875

Ion Ratio Lower Upper

91 100

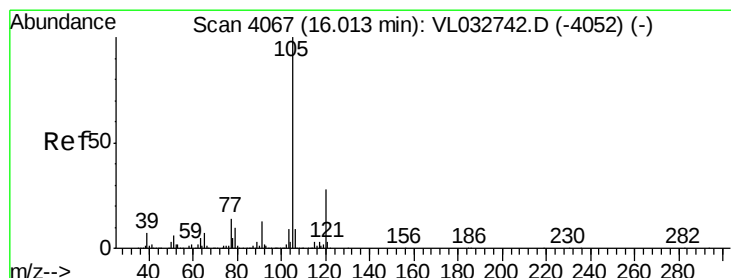
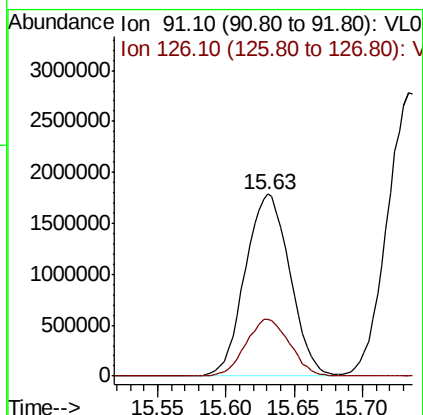
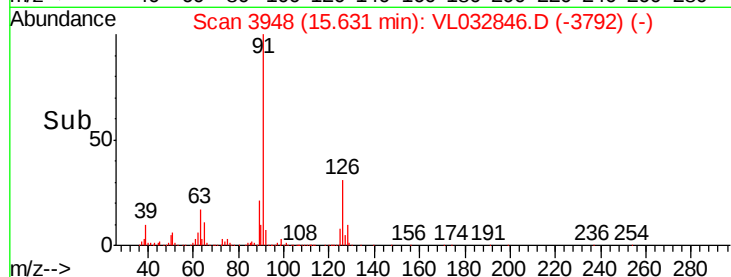
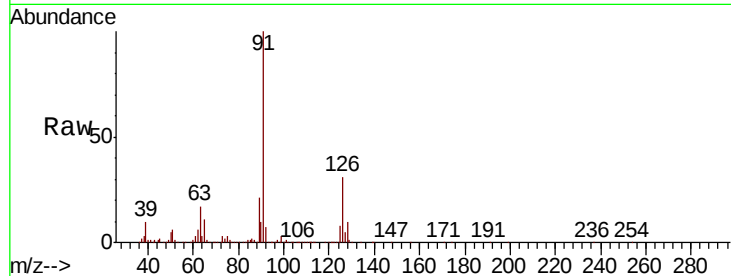
126 30.6 12.1 48.5

Manual Integrations

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#72

4-Ethyltoluene

Concen: 9.920 ppbv

RT: 16.01 min Scan# 4067

Delta R.T. -0.00 min

Lab File: VL032846.D

Acq: 30 Nov 2018 11:16

Tgt Ion: 105 Resp: 4460786

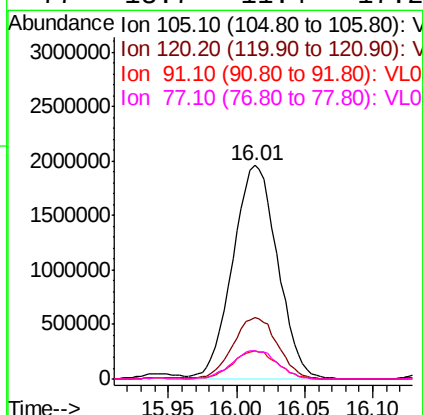
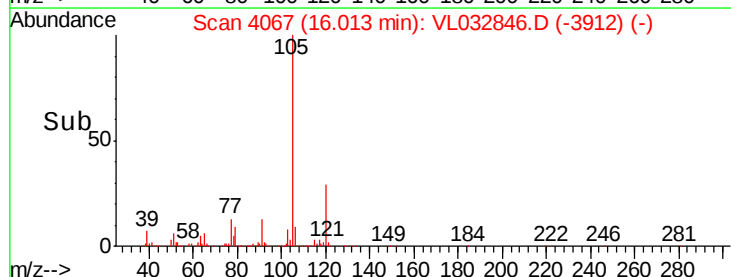
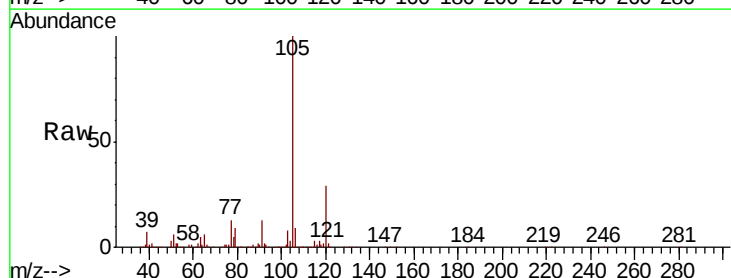
Ion Ratio Lower Upper

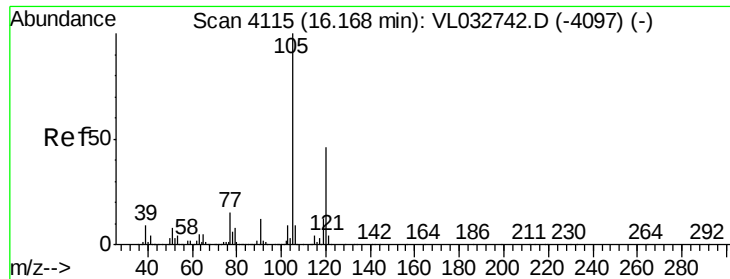
105 100

120 28.9 22.9 34.3

91 13.1 10.6 15.8

77 13.7 11.4 17.2





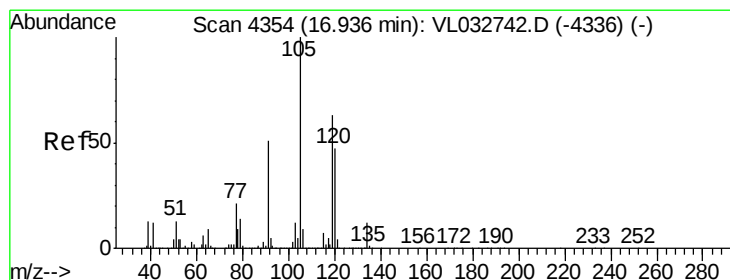
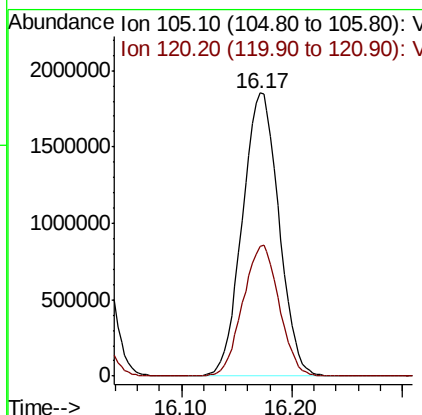
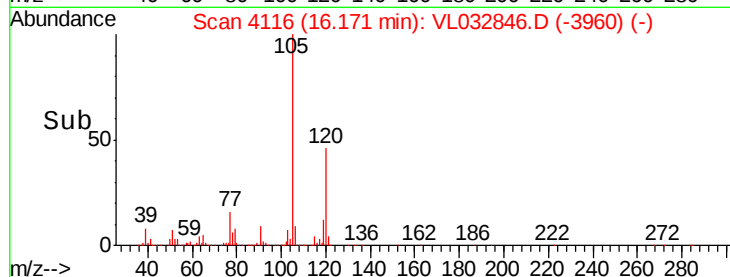
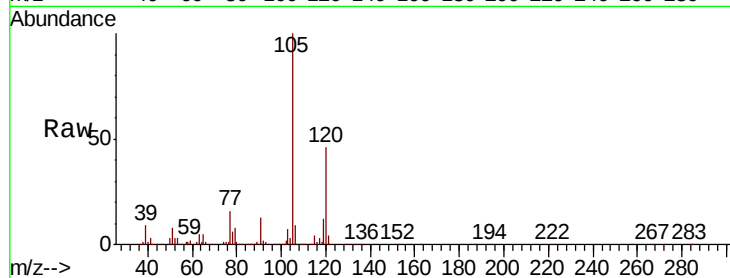
#73
 1,3,5-Trimethylbenzene
 Concen: 9.657 ppbv
 RT: 16.17 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VL032846.D
 Acq: 30 Nov 2018 11:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:105 Resp: 4245979
 Ion Ratio Lower Upper
 105 100
 120 46.0 36.6 55.0

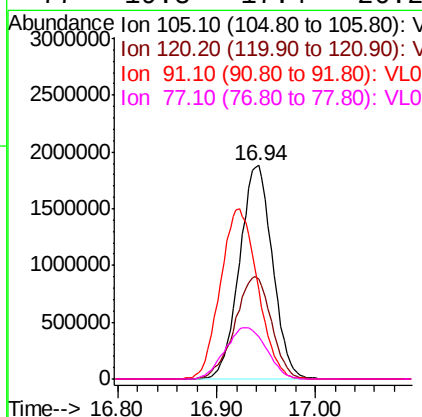
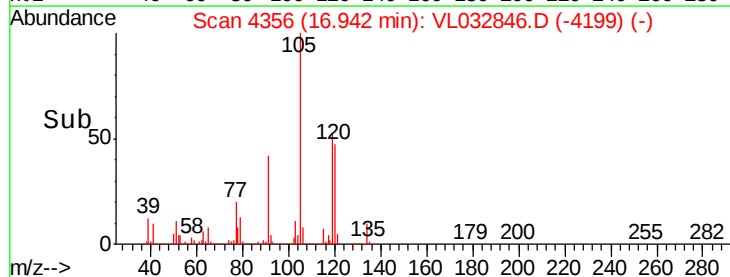
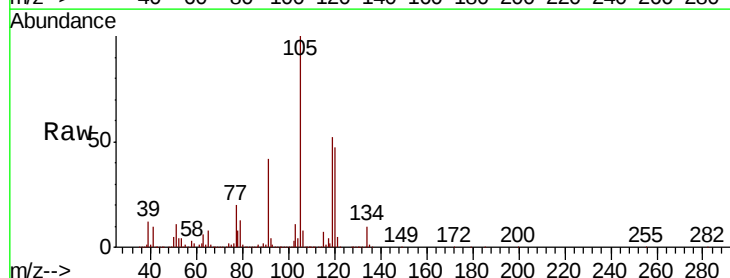
Manual Integrations
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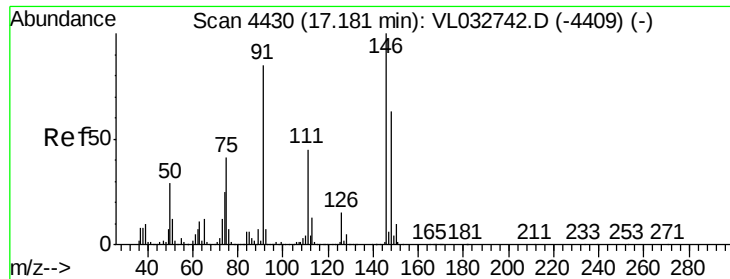
MMDadoda
 12/3/2018 4:14:55 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 9.240 ppbv
 RT: 16.94 min Scan# 4356
 Delta R.T. 0.01 min
 Lab File: VL032846.D
 Acq: 30 Nov 2018 11:16

Tgt Ion:105 Resp: 4347527
 Ion Ratio Lower Upper
 105 100
 120 46.4 37.6 56.4
 91 41.9 42.5 63.7#
 77 19.8 17.4 26.2





#75

1,3-Dichlorobenzene

Concen: 9.018 ppbv

RT: 17.18 min Scan# 4430

Delta R.T. -0.00 min

Lab File: VL032846.D

Acq: 30 Nov 2018 11:16

Instrument :

MSVOA_L

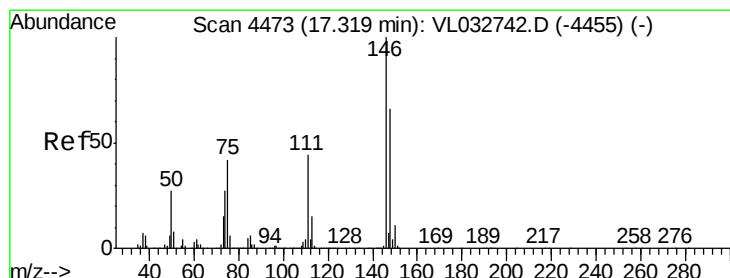
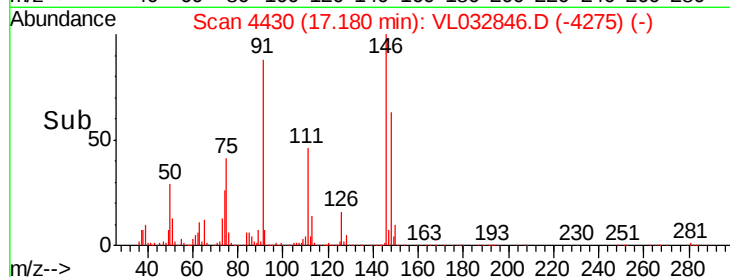
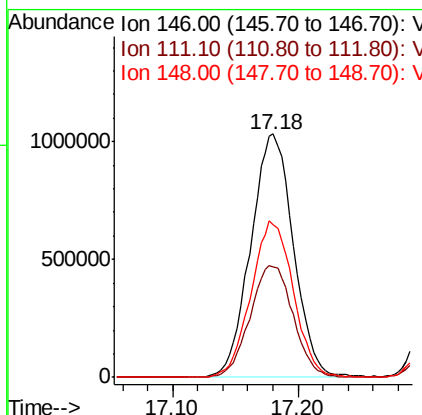
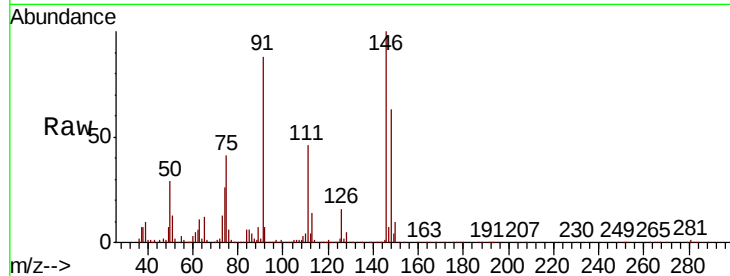
ClientSampled :

VSTDCCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.7	23.5	70.6
148	63.8	31.8	95.3

Manual Integrations
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MMDadoda
12/3/2018 4:14:55 PM



#76

1,4-Dichlorobenzene

Concen: 9.371 ppbv

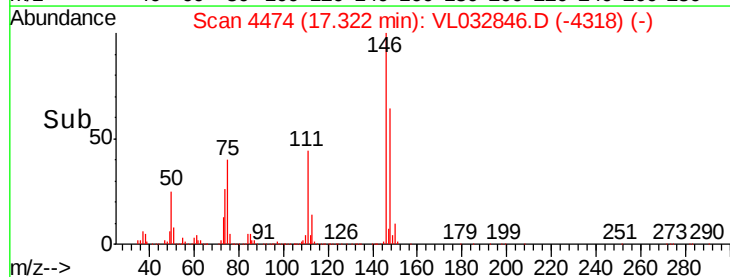
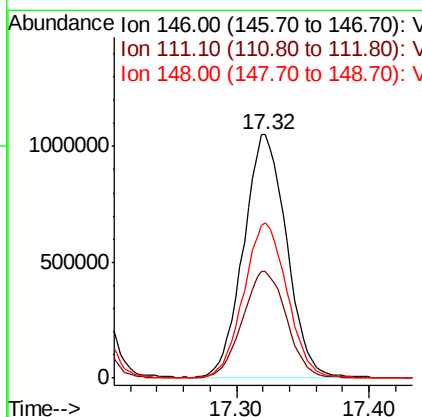
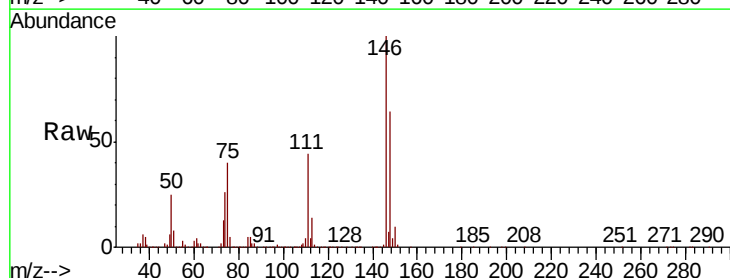
RT: 17.32 min Scan# 4474

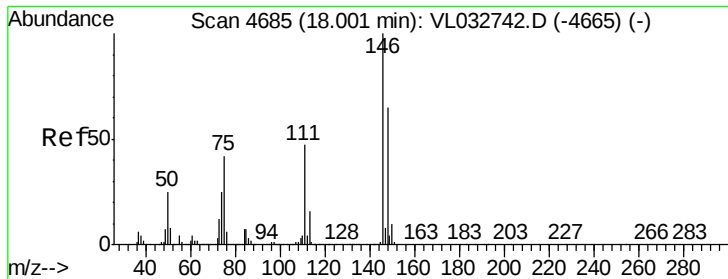
Delta R.T. 0.00 min

Lab File: VL032846.D

Acq: 30 Nov 2018 11:16

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.2	22.5	67.5
148	64.9	32.5	97.5





#77

1,2-Dichlorobenzene

Concen: 9.371 ppbv

RT: 18.00 min Scan# 4686

Delta R.T. 0.00 min

Lab File: VL032846.D

Acq: 30 Nov 2018 11:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 2339660

Ion Ratio Lower Upper

146 100

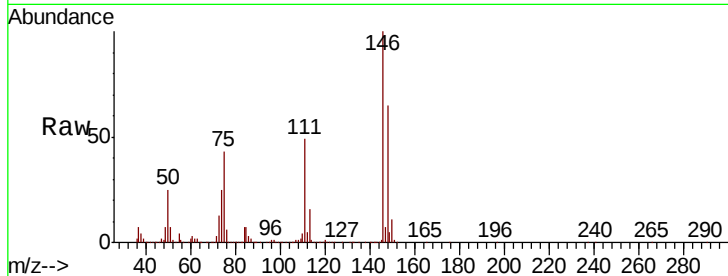
111 48.5 24.4 73.2

148 63.7 32.2 96.6

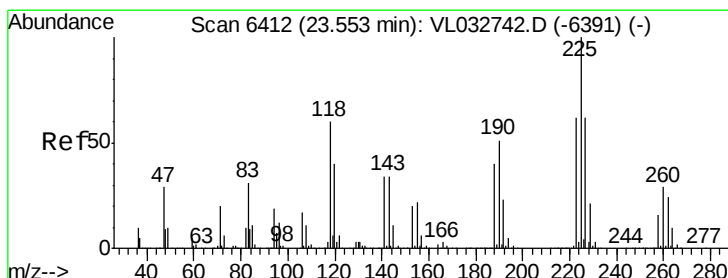
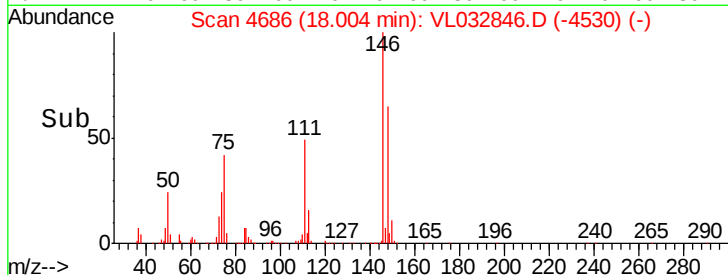
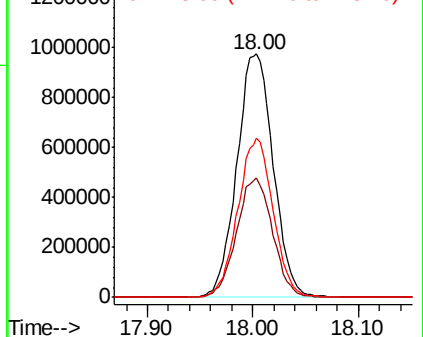
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 10.298 ppbv

RT: 23.56 min Scan# 6413

Delta R.T. 0.00 min

Lab File: VL032846.D

Acq: 30 Nov 2018 11:16

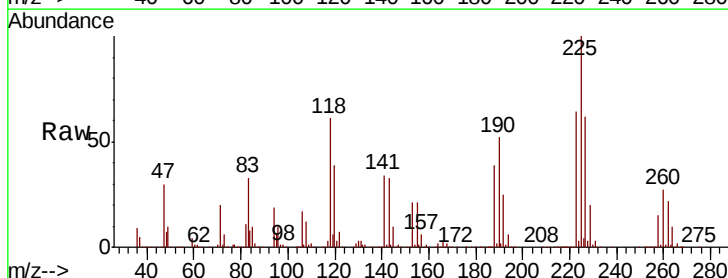
Tgt Ion:225 Resp: 1387615

Ion Ratio Lower Upper

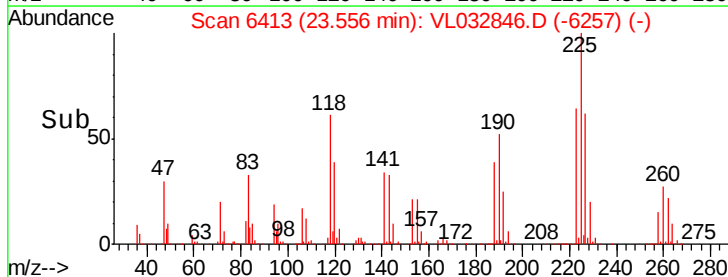
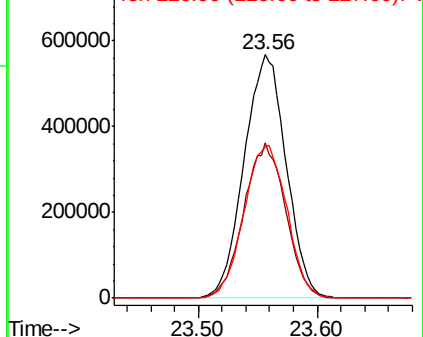
225 100

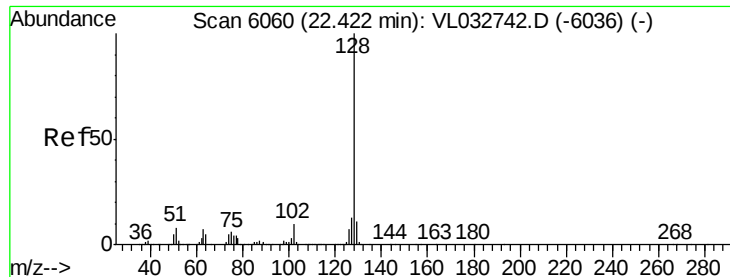
223 63.4 50.3 75.5

227 64.1 50.2 75.4



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V





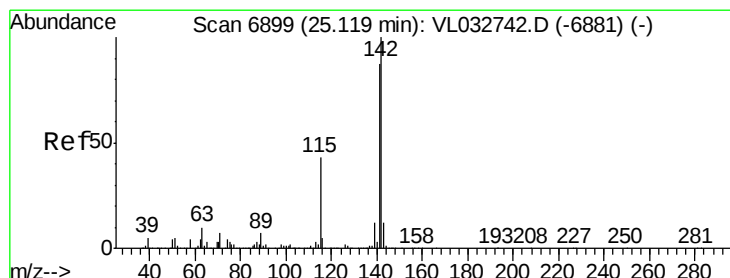
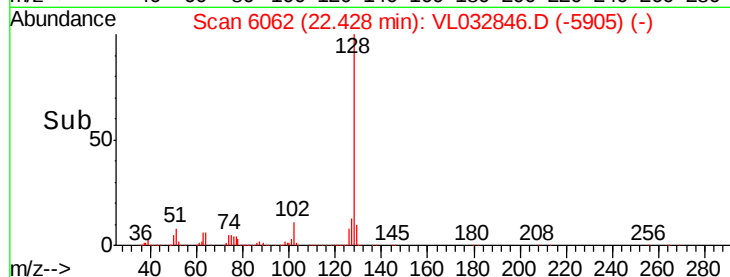
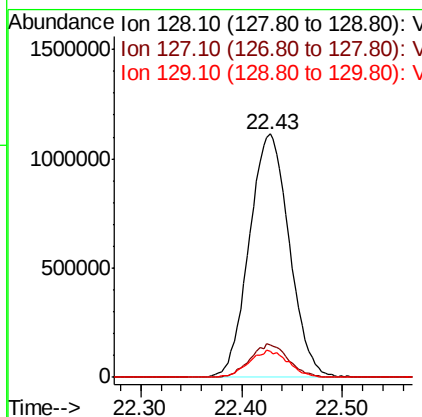
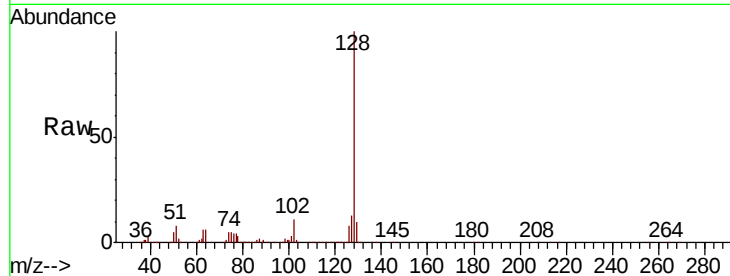
#79
Naphthalene
Concen: 9.921 ppbv
RT: 22.43 min Scan# 6062
Delta R.T. 0.01 min
Lab File: VL032846.D
Acq: 30 Nov 2018 11:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.1	15.1
129	10.4	8.9	13.3

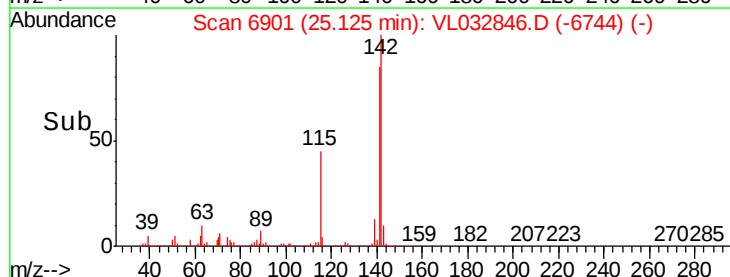
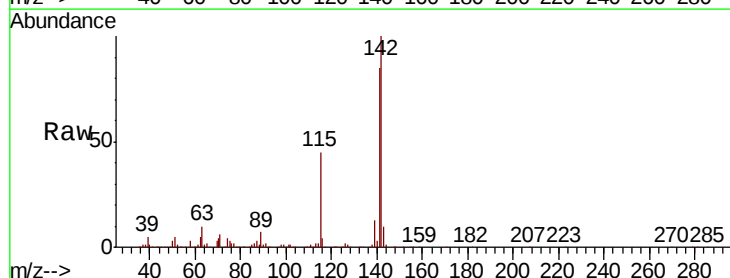
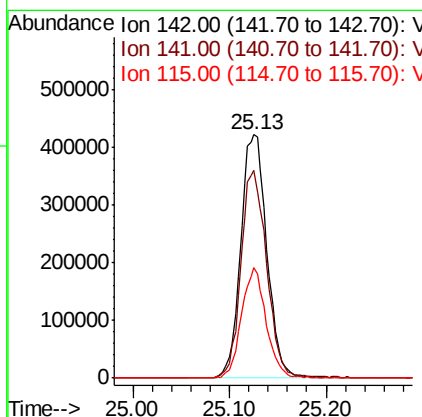
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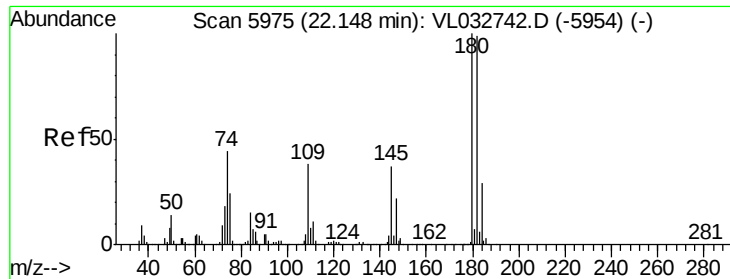
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#80
Naphthalene, 2-methyl-
Concen: 10.212 ppbv
RT: 25.13 min Scan# 6901
Delta R.T. 0.01 min
Lab File: VL032846.D
Acq: 30 Nov 2018 11:16

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.0	68.7	103.1
115	43.0	35.5	53.3





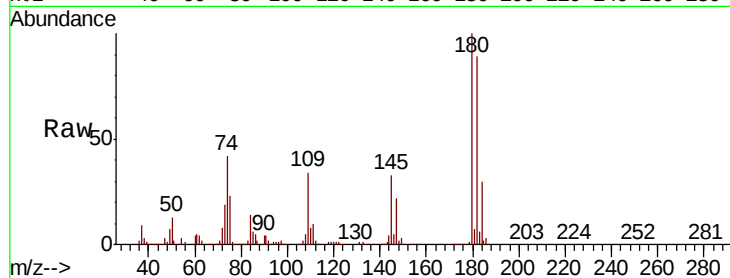
#81
 1,2,4-Trichlorobenzene
 Concen: 10.149 ppbv
 RT: 22.15 min Scan# 5976
 Delta R.T. 0.00 min
 Lab File: VL032846.D
 Acq: 30 Nov 2018 11:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.9	77.3	115.9
184	30.4	24.2	36.4

Manual Integrations
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Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

