

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041218\
 Data File : VL031851.D
 Acq On : 12 Apr 2018 00:18
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 4/15/2018 3:05:51 PM

Quant Time: Apr 13 16:22:56 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Apr 13 2018
 QLast Update : Thu Apr 12 04:56:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1243729	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2869326	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2897675m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.73	95	2378457	10.31	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.16	85	2120910	8.318 ppbv	97
3) Chlorodifluoromethane	3.10	51	1347226	9.246 ppbv	98
4) Chloromethane	3.26	50	688570	9.291 ppbv	95
5) Vinyl Chloride	3.38	62	723215	8.683 ppbv	95
6) Bromomethane	3.61	94	508146	9.295 ppbv	96
7) Chloroethane	3.70	64	295339	8.853 ppbv	95
8) Dichlorotetrafluoroethane	3.31	85	1880250	8.948 ppbv	100
9) Propene	3.12	41	506036	9.963 ppbv	99
10) Heptane	8.39	43	1647212	10.115 ppbv	100
11) Trichlorofluoromethane	4.11	101	2186497	8.755 ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.67	101	1420543	8.748 ppbv	99
13) Ethanol	3.75	45	136478	7.855 ppbv	100
14) Bromoethene	3.89	108	567958	9.170 ppbv	100
15) Acetone	4.00	43	1588499	8.410 ppbv	100
16) 1,3-Butadiene	3.46	39	711468	10.135 ppbv	94
17) tert-Butyl alcohol	4.47	59	762419	9.581 ppbv	100
18) 1,1-Dichloroethene	4.46	96	633311	9.021 ppbv	98
19) Isopropyl Alcohol	4.13	45	978080	9.123 ppbv	# 99
20) Methylene Chloride	4.52	84	590877	8.405 ppbv	98
21) Allyl Chloride	4.59	41	1024668	9.328 ppbv	98
22) trans-1,2-Dichloroethene	5.08	96	667188	9.124 ppbv	99
23) Vinyl Acetate	5.28	43	1865576	9.423 ppbv	99
24) 1,1-Dichloroethane	5.21	63	1670951	8.565 ppbv	99
25) Ethyl Acetate	5.90	43	2778921	9.243 ppbv	100
26) Hexane	5.91	57	1315929	9.408 ppbv	99
27) Carbon Disulfide	4.74	76	1775162	9.850 ppbv	98
28) Methyl tert-Butyl Ether	5.23	73	1633005	9.370 ppbv	99
29) Chloroform	5.98	83	2104124	8.913 ppbv	98
30) Cyclohexane	7.39	84	1015496	10.179 ppbv	99
31) cis-1,2-Dichloroethene	5.77	61	1227375	9.644 ppbv	94
32) 1,1,1-Trichloroethane	6.76	97	2101121	9.123 ppbv	99
34) 2-Butanone	5.45	43	1793733	8.986 ppbv	100
35) Carbon Tetrachloride	7.27	117	2166061	8.712 ppbv	96
36) Benzene	7.14	78	2484019	9.581 ppbv	96
37) 1,2-Dichloroethane	6.55	62	1750115	9.100 ppbv	98
38) Trichloroethene	8.10	130	976921	9.296 ppbv	96
39) 1,2-Dichloropropane	7.88	63	901383	9.343 ppbv	96
40) 1,4-Dioxane	8.09	88	392790	10.089 ppbv	99
41) Tetrahydrofuran	6.28	42	905019	9.665 ppbv	99
42) Bromodichloromethane	8.06	83	2147821	9.358 ppbv	100
43) Methyl Methacrylate	8.28	69	931531	10.220 ppbv	98

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.13	57	4225306	9.511	ppbv	99
45) t-1,3-Dichloropropene	9.56	75	1316637	11.095	ppbv	98
46) cis-1,3-Dichloropropene	8.98	75	1621197	10.724	ppbv	97
47) 1,1,2-Trichloroethane	9.76	97	1074372	9.445	ppbv	99
48) Dibromochloromethane	10.60	129	1826989	9.987	ppbv	100
49) Bromoform	13.36	173	1443264m	10.331	ppbv	
50) 4-Methyl-2-Pentanone	9.02	43	2268132	9.973	ppbv	99
51) 2-Hexanone	10.42	43	2161945	10.907	ppbv	100
52) Tetrachloroethene	11.52	164	930277	9.242	ppbv	96
53) Toluene	10.09	91	2987764	10.362	ppbv	100
54) 1,2-Dibromoethane	10.91	107	1604136	9.687	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.43	131	1260564	9.344	ppbv	100
57) Chlorobenzene	12.46	112	2279895	9.329	ppbv	99
58) Ethyl Benzene	13.02	91	4175072	10.441	ppbv	96
59) m/p-Xylene	13.30	91	6842768m	19.727	ppbv	
60) o-Xylene	14.00	91	3518685	10.170	ppbv	99
61) Styrene	13.84	104	826058	12.450	ppbv	100
62) Isopropylbenzene	14.98	105	4449761	10.058	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.99	83	2365604	8.948	ppbv	99
64) n-propylbenzene	15.88	120	1103676	10.292	ppbv	98
65) tert-Butylbenzene	17.06	119	3828841	10.143	ppbv	100
66) Benzyl Chloride	17.31	91	376721	11.092	ppbv	100
67) sec-Butylbenzene	17.61	105	5443399	10.041	ppbv	100
69) p-Isopropyltoluene	17.96	119	4393189	10.488	ppbv	99
70) n-Butylbenzene	18.86	91	4578414	10.594	ppbv	100
71) 2-Chlorotoluene	15.77	91	3331540	10.430	ppbv	100
72) 4-Ethyltoluene	16.15	105	3684473	10.512	ppbv	100
73) 1,3,5-Trimethylbenzene	16.31	105	3350878	10.502	ppbv	98
74) 1,2,4-Trimethylbenzene	17.08	105	3495202	9.804	ppbv	99
75) 1,3-Dichlorobenzene	17.32	146	2137880	9.803	ppbv	99
76) 1,4-Dichlorobenzene	17.46	146	2149684	10.169	ppbv	100
77) 1,2-Dichlorobenzene	18.14	146	2132108	10.014	ppbv	100
78) Hexachloro-1,3-Butadiene	23.68	225	732431	8.120	ppbv	99
79) Naphthalene	22.59	128	2460517	12.326	ppbv	99
80) Naphthalene, 2-methyl-	25.23	142	727454	17.962	ppbv	99
81) 1,2,4-Trichlorobenzene	22.31	180	1268397	11.514	ppbv	99

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

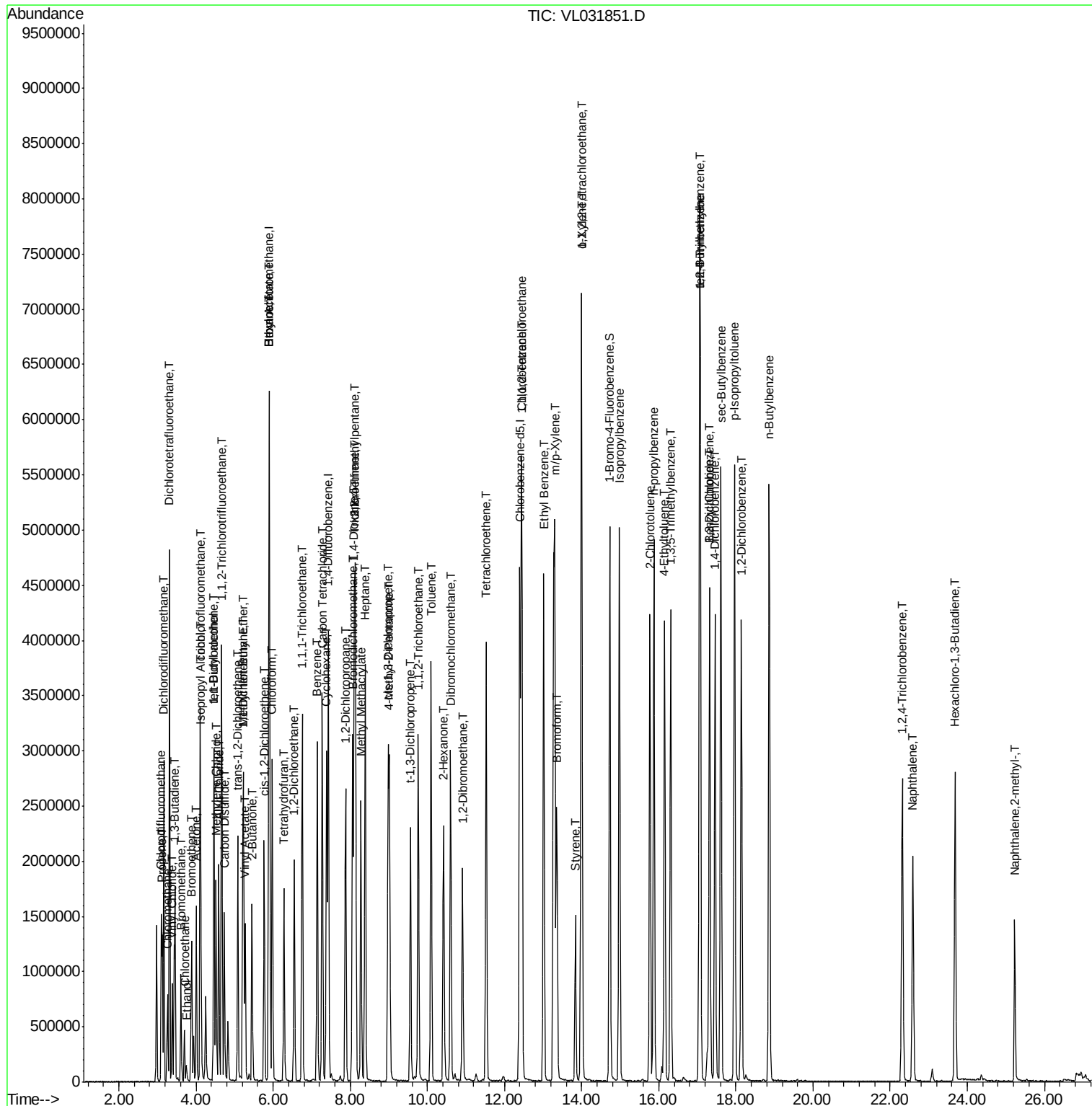
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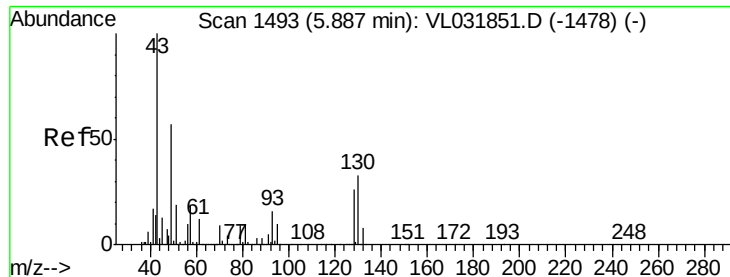
Instrument :
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.89 min Scan# 1494

Delta R.T. 0.00 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 49 Resp: 1243729

Ion Ratio Lower Upper

49 100

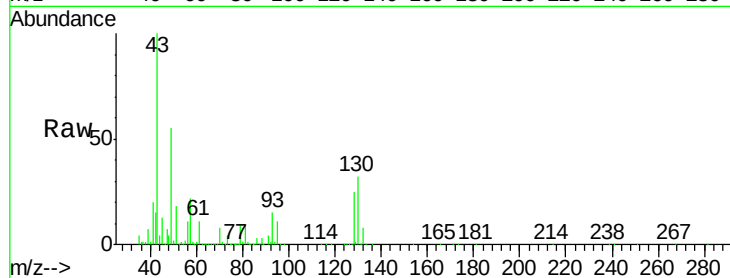
128 47.8 23.9 71.8

130 61.8 31.1 93.2

Manual Integrations
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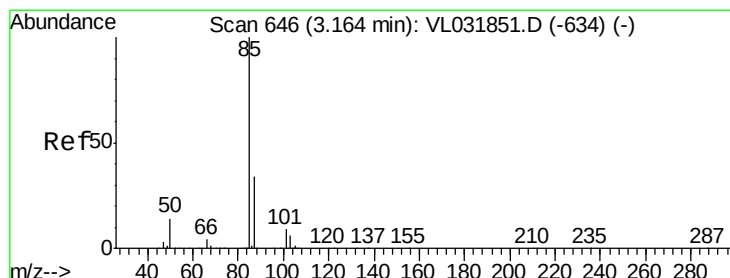
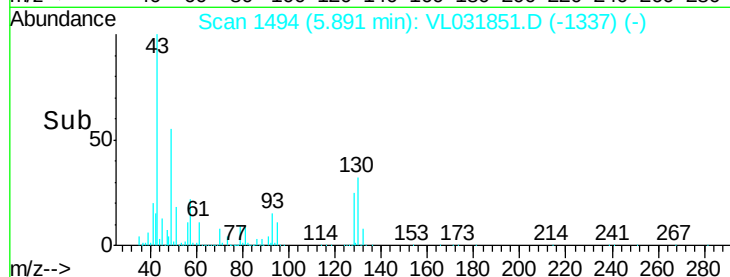
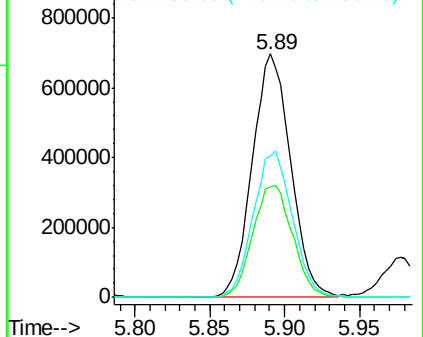
4/15/2018 3:05:51 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 8.318 ppbv

RT: 3.16 min Scan# 646

Delta R.T. 0.00 min

Lab File: VL031851.D

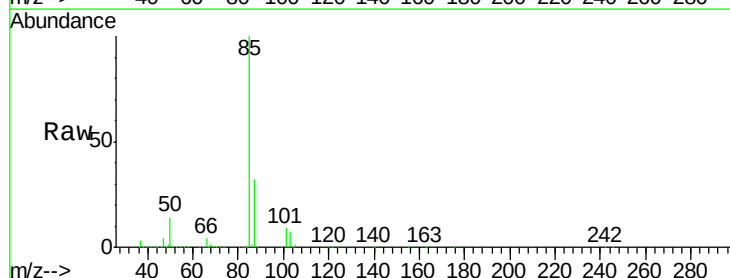
Acq: 12 Apr 2018 00:18

Tgt Ion: 85 Resp: 2120910

Ion Ratio Lower Upper

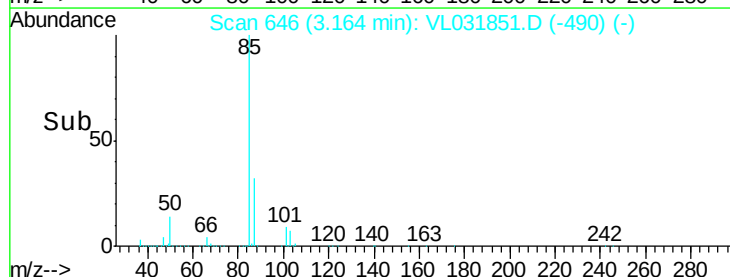
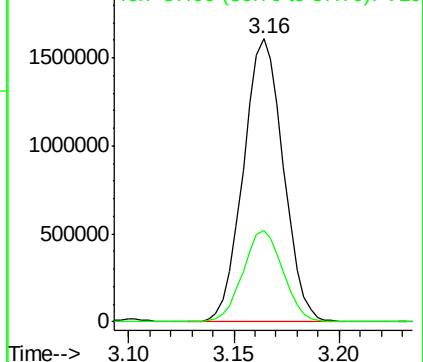
85 100

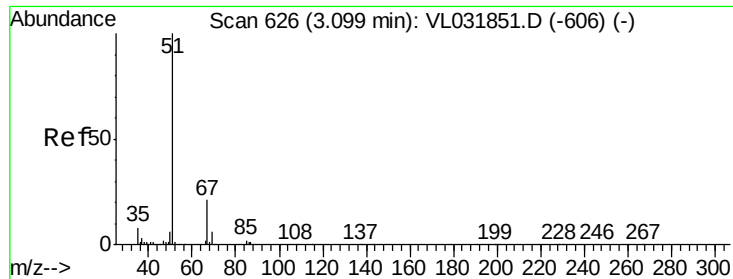
87 32.4 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.246 ppbv

RT: 3.10 min Scan# 626

Delta R.T. 0.00 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

Tot Ion: 51 Resp: 1347226

Ion Ratio Lower Upper

51 100

67 21.9 16.7 25.1

Instrument :

MSVOA_L

ClientSampleId :

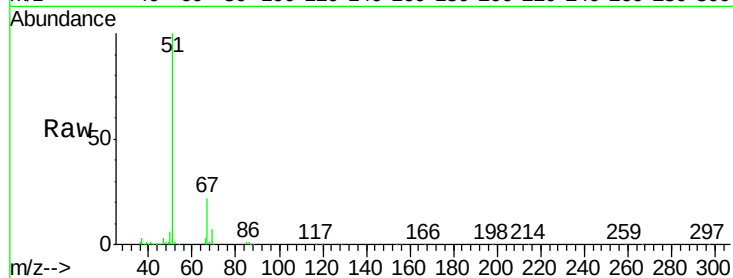
VSTDICCC010

Manual Integrations

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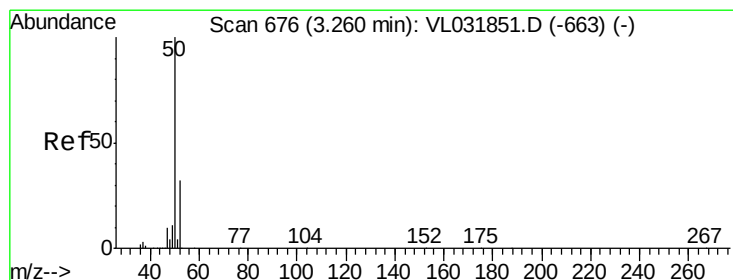
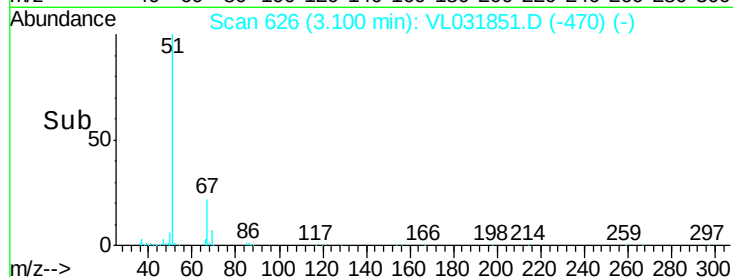
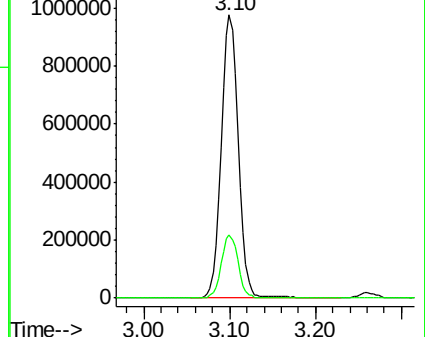
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.291 ppbv

RT: 3.26 min Scan# 676

Delta R.T. 0.00 min

Lab File: VL031851.D

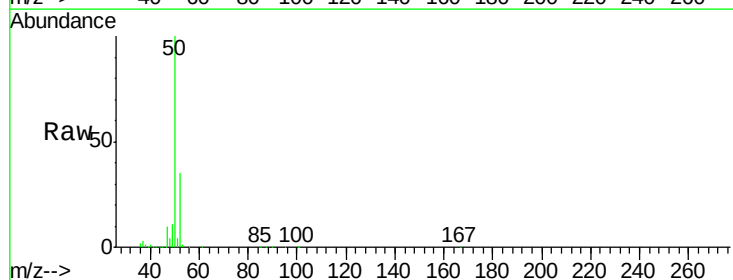
Acq: 12 Apr 2018 00:18

Tgt Ion: 50 Resp: 688570

Ion Ratio Lower Upper

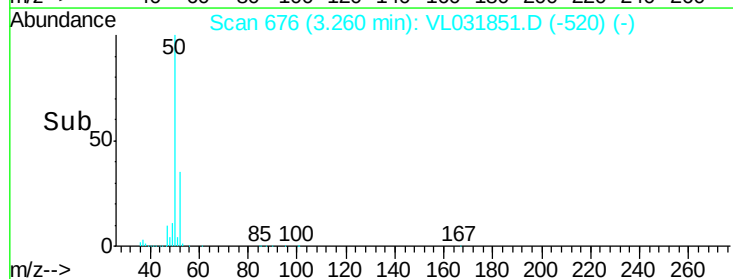
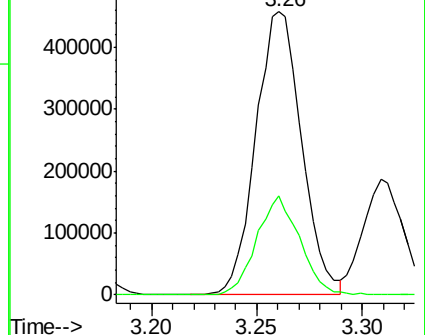
50 100

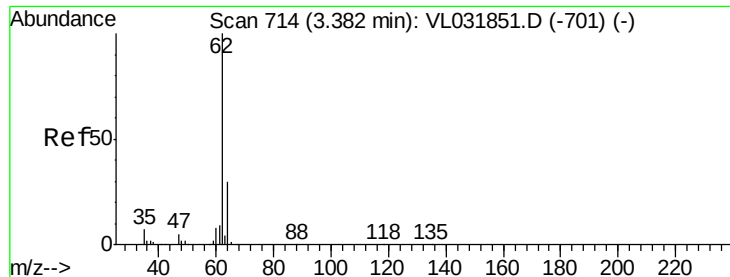
52 35.1 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.683 ppbv

RT: 3.38 min Scan# 714

Delta R.T. 0.00 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 62 Resp: 723215

Ion Ratio Lower Upper

62 100

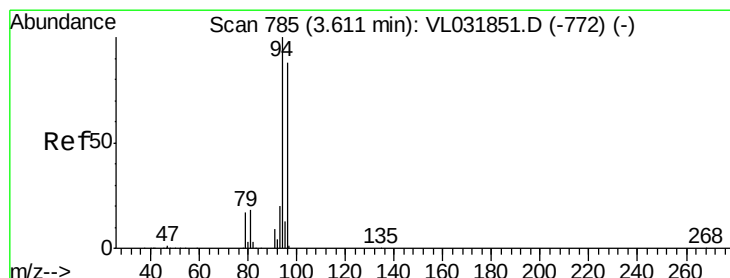
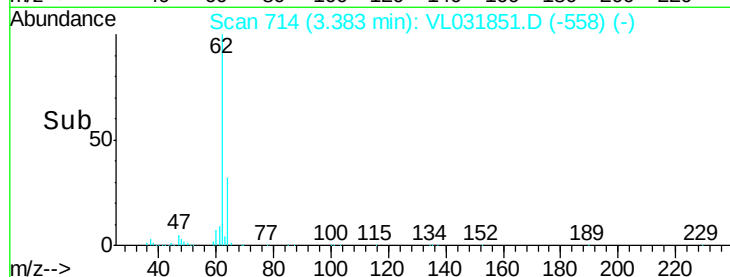
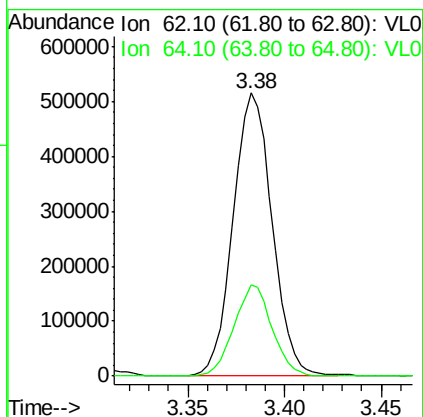
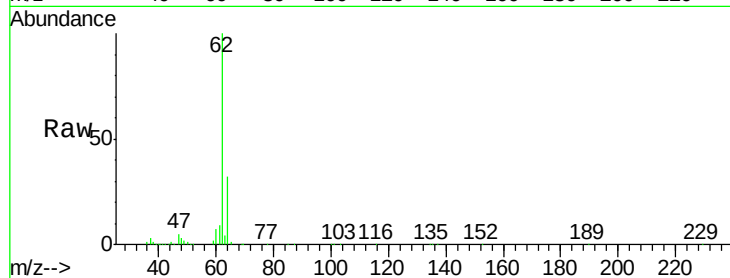
64 32.4 23.8 35.8

Manual Integrations

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#6

Bromomethane

Concen: 9.295 ppbv

RT: 3.61 min Scan# 785

Delta R.T. 0.00 min

Lab File: VL031851.D

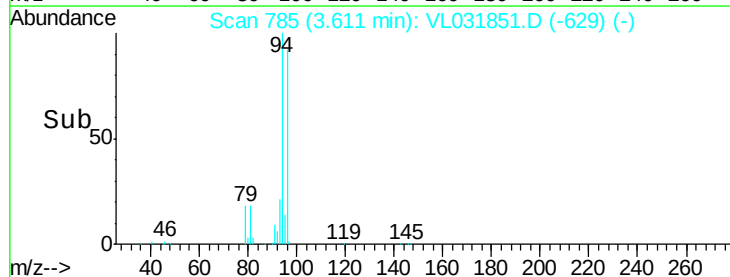
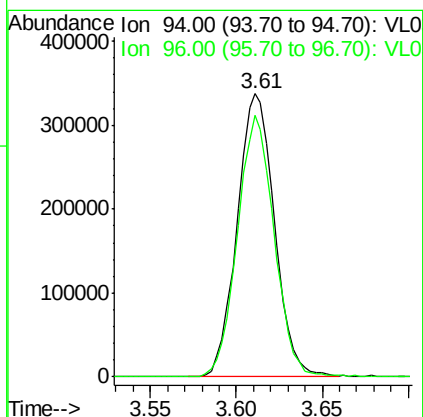
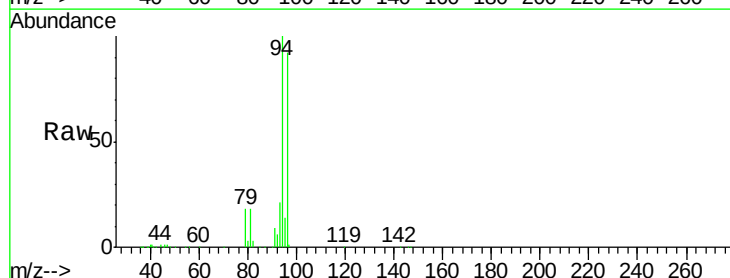
Acq: 12 Apr 2018 00:18

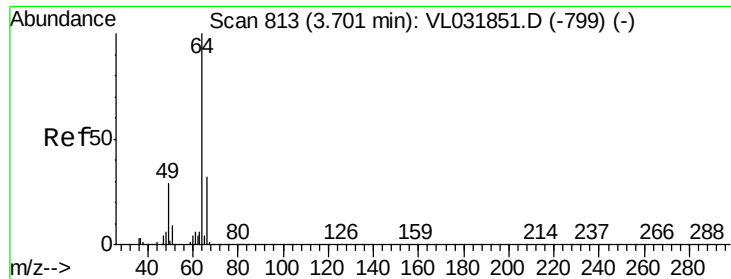
Tgt Ion: 94 Resp: 508146

Ion Ratio Lower Upper

94 100

96 92.2 70.6 105.8





#7

Chloroethane

Concen: 8.853 ppbv

RT: 3.70 min Scan# 812

Delta R.T. -0.00 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

Instrument :

MSVOA_L

ClientSampleId :

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Tot Ion: 64 Resp: 295339

Ion Ratio Lower Upper

64 100

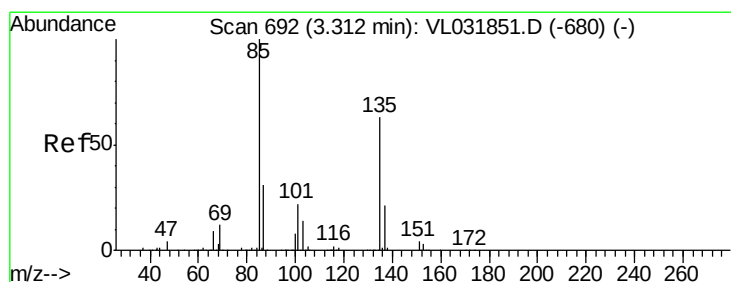
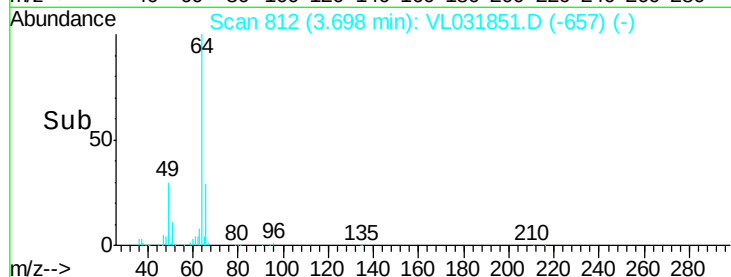
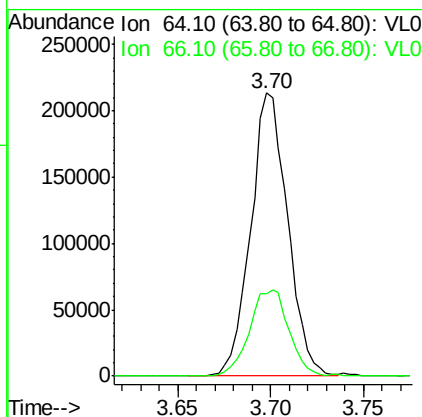
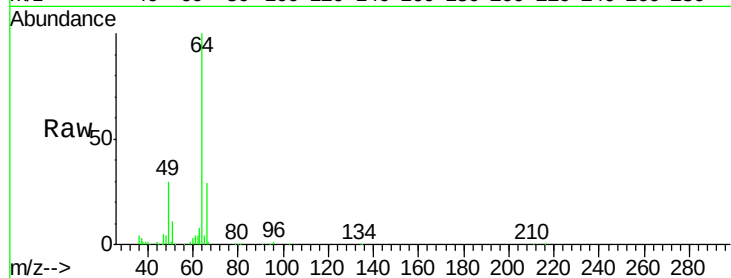
66 29.2 25.5 38.3

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 8.948 ppbv

RT: 3.31 min Scan# 692

Delta R.T. 0.00 min

Lab File: VL031851.D

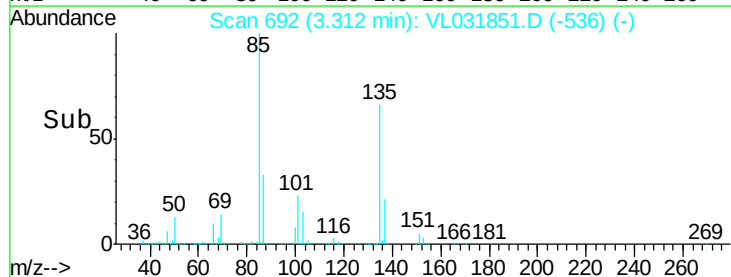
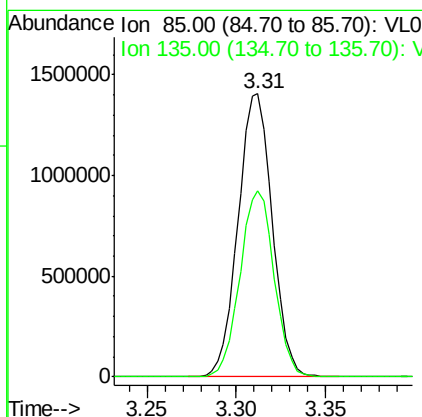
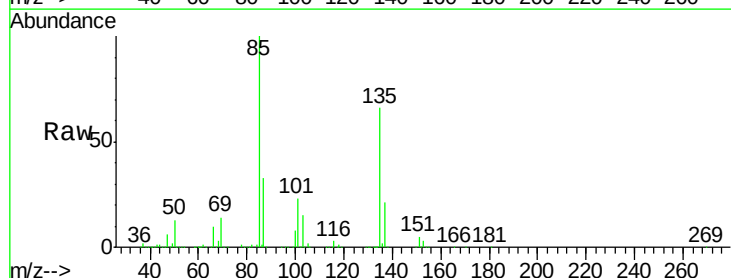
Acq: 12 Apr 2018 00:18

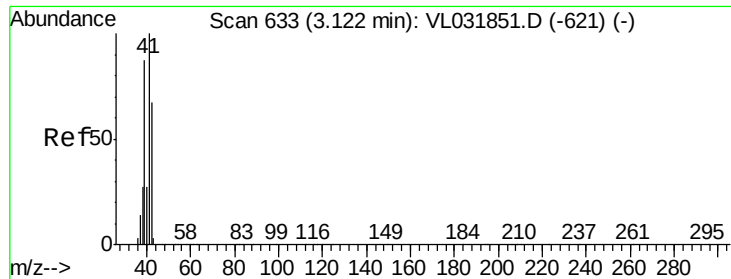
Tgt Ion: 85 Resp: 1880250

Ion Ratio Lower Upper

85 100

135 65.9 52.6 79.0





#9

Propene

Concen: 9.963 ppbv

RT: 3.12 min Scan# 633

Delta R.T. 0.00 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 41 Resp: 506036

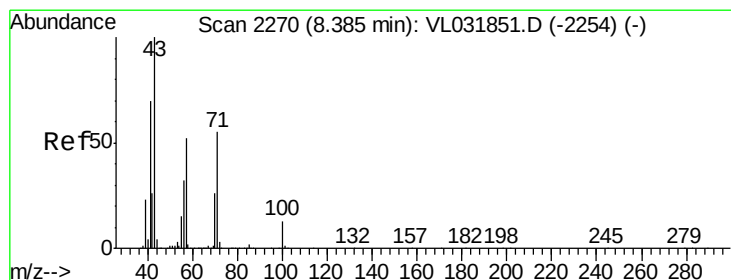
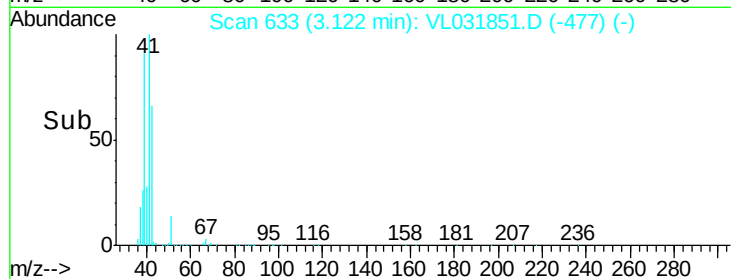
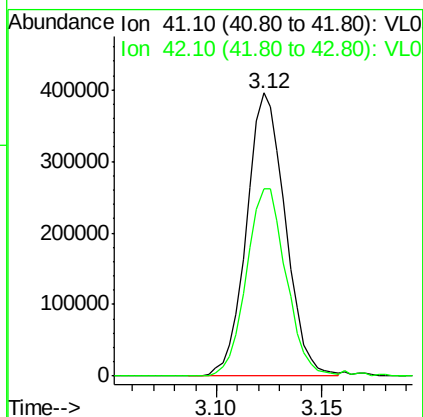
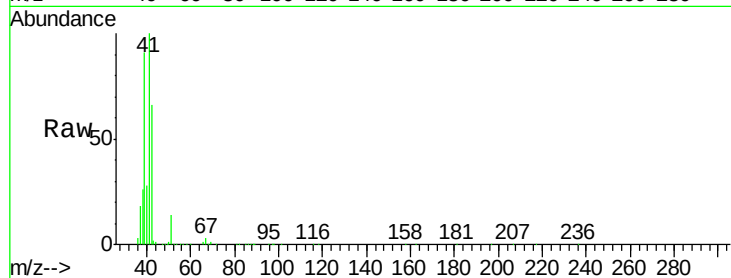
Ion Ratio Lower Upper

41 100

42 68.7 54.3 81.5

Manual Integrations
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#10

Heptane

Concen: 10.115 ppbv

RT: 8.39 min Scan# 2270

Delta R.T. 0.00 min

Lab File: VL031851.D

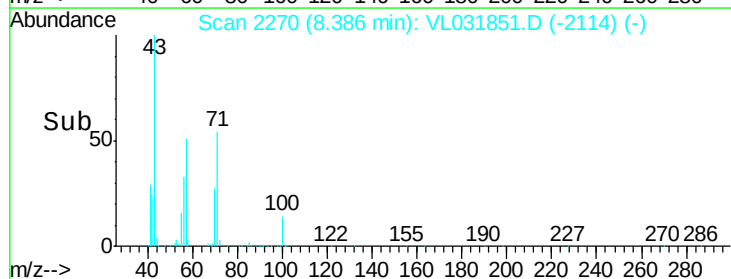
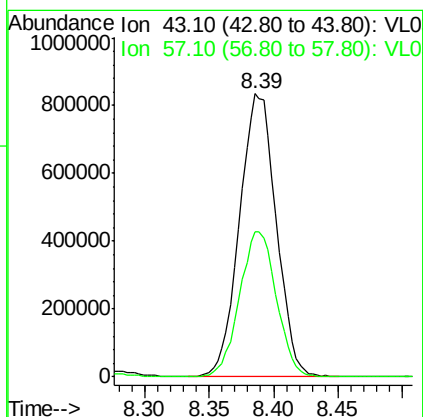
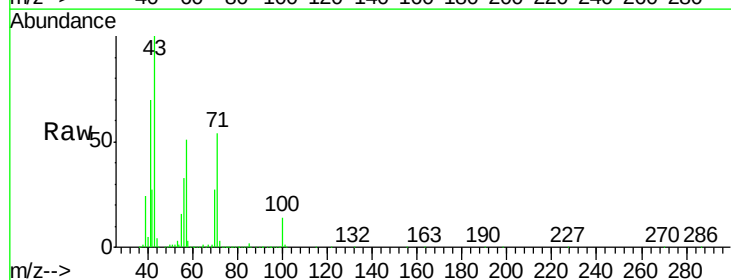
Acq: 12 Apr 2018 00:18

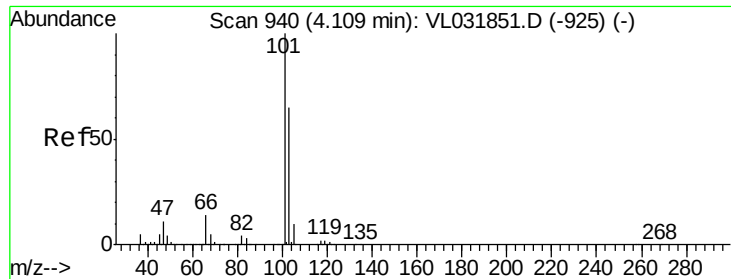
Tgt Ion: 43 Resp: 1647212

Ion Ratio Lower Upper

43 100

57 51.9 41.4 62.2





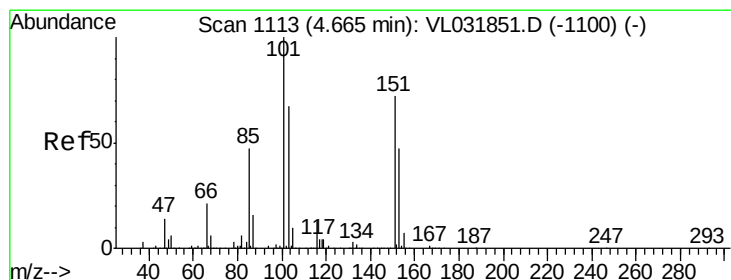
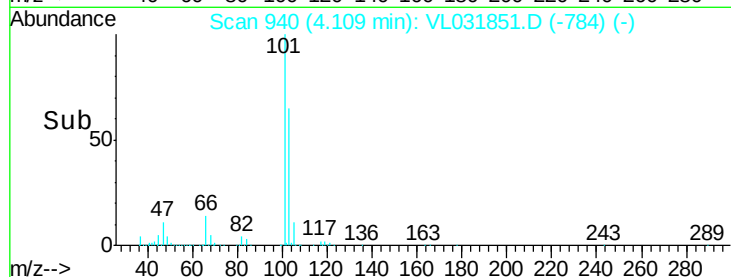
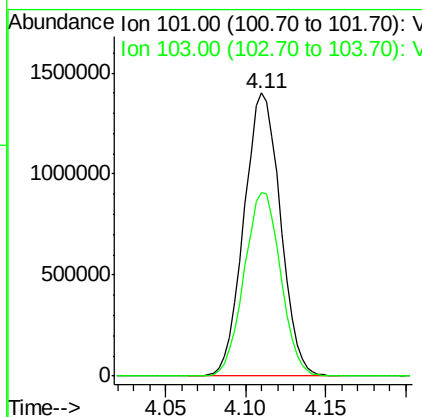
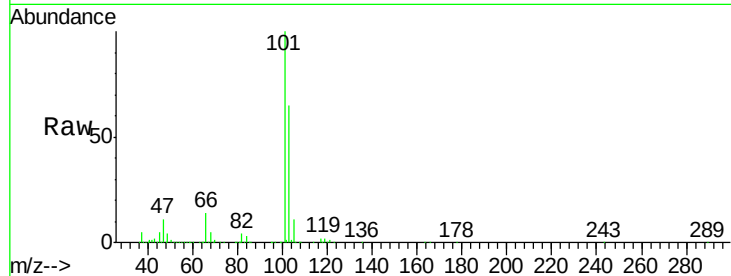
#11
 Trichlorofluoromethane
 Concen: 8.755 ppbv
 RT: 4.11 min Scan# 940
 Delta R.T. 0.00 min
 Lab File: VL031851.D
 Acq: 12 Apr 2018 00:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:101 Resp: 2186497
 Ion Ratio Lower Upper
 101 100
 103 64.8 51.8 77.6

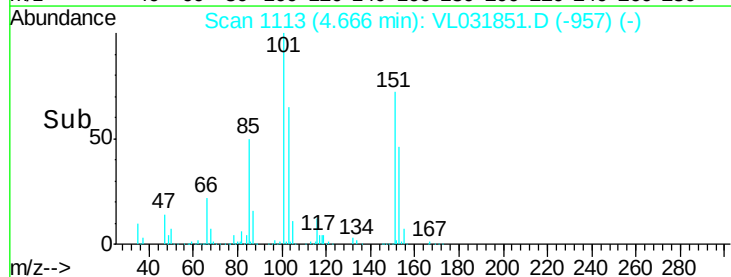
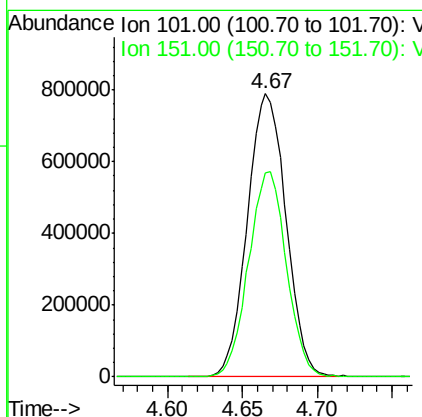
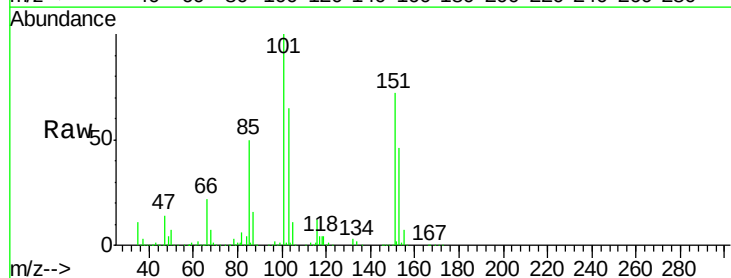
Manual Integrations
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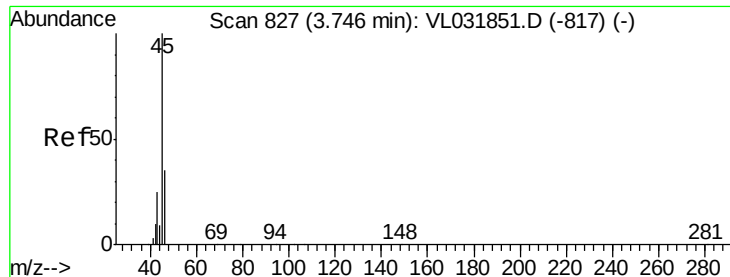
MMDadoda
 4/15/2018 3:05:51 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.748 ppbv
 RT: 4.67 min Scan# 1113
 Delta R.T. 0.00 min
 Lab File: VL031851.D
 Acq: 12 Apr 2018 00:18

Tgt Ion:101 Resp: 1420543
 Ion Ratio Lower Upper
 101 100
 151 71.3 57.7 86.5





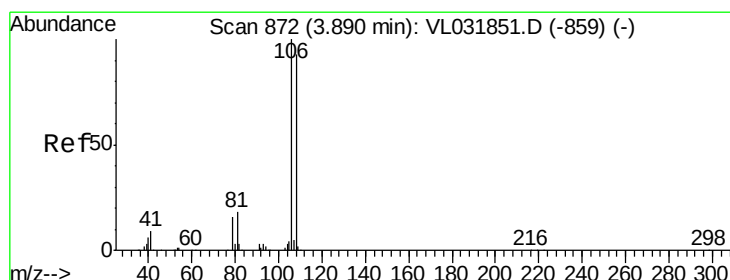
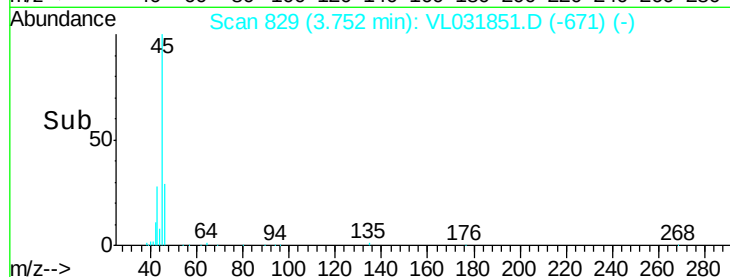
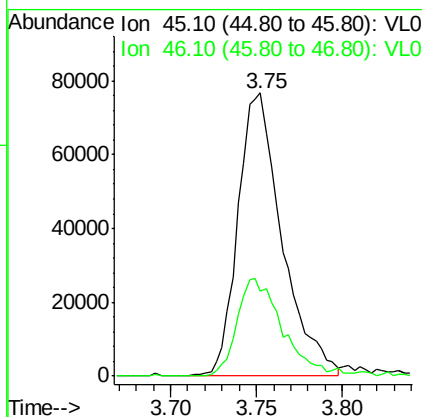
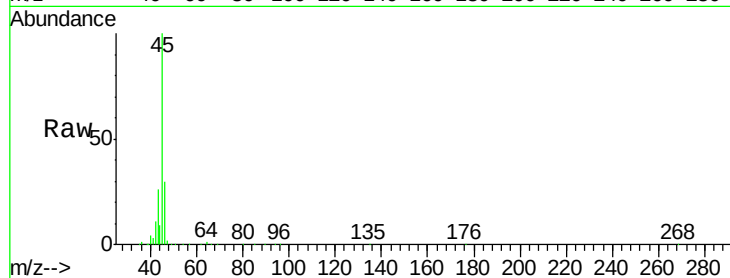
#13
Ethanol
Concen: 7.855 ppbv
RT: 3.75 min Scan# 829
Delta R.T. 0.01 min
Lab File: VL031851.D
Acq: 12 Apr 2018 00:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
45	100		
46	36.6	14.6	58.4

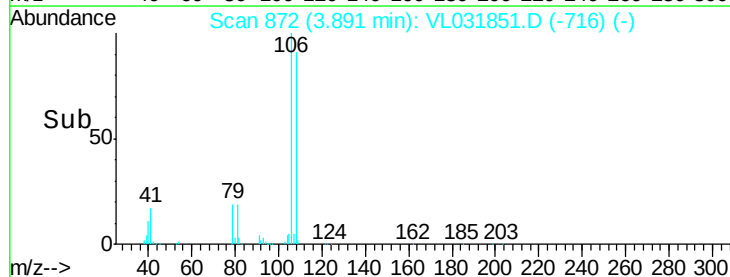
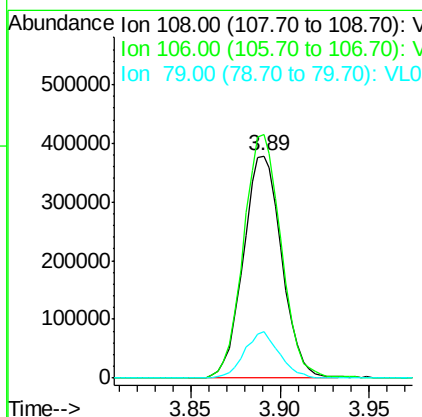
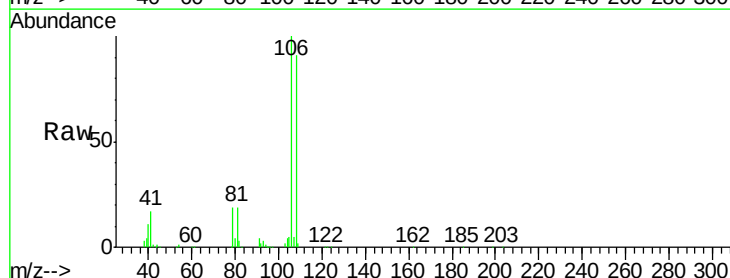
Manual Integrations
APPROVED

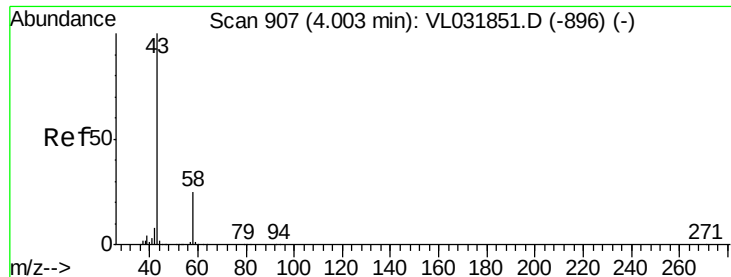
MMDadoda
4/15/2018 3:05:51 PM



#14
Bromoethene
Concen: 9.170 ppbv
RT: 3.89 min Scan# 872
Delta R.T. 0.00 min
Lab File: VL031851.D
Acq: 12 Apr 2018 00:18

Tgt Ion	Ratio	Lower	Upper
108	100		
106	108.3	86.9	130.3
79	19.4	15.5	23.3





#15

Acetone

Concen: 8.410 ppbv

RT: 4.00 min Scan# 907

Delta R.T. 0.00 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 1588499

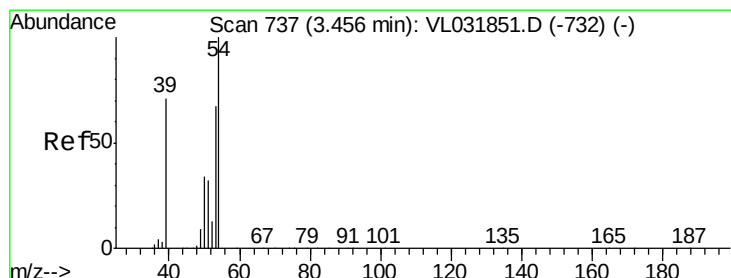
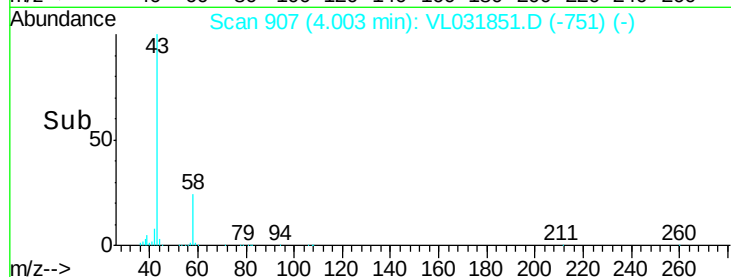
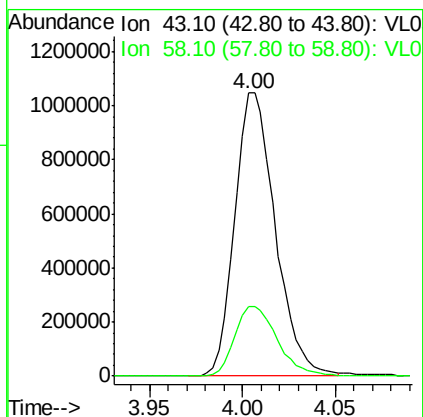
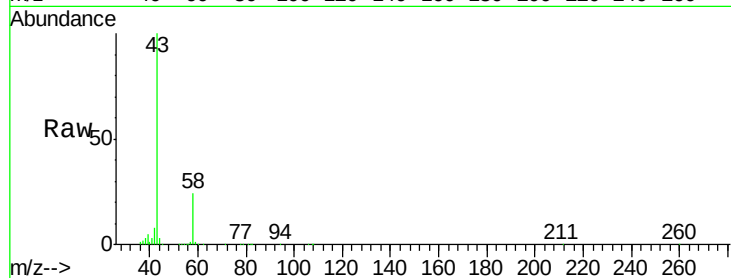
Ion Ratio Lower Upper

43 100

58 26.1 20.7 31.1

Manual Integrations
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#16

1,3-Butadiene

Concen: 10.135 ppbv

RT: 3.46 min Scan# 737

Delta R.T. 0.00 min

Lab File: VL031851.D

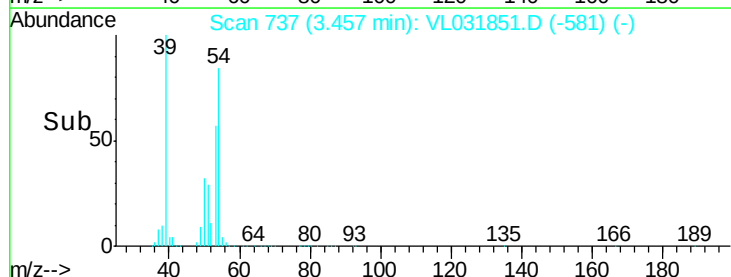
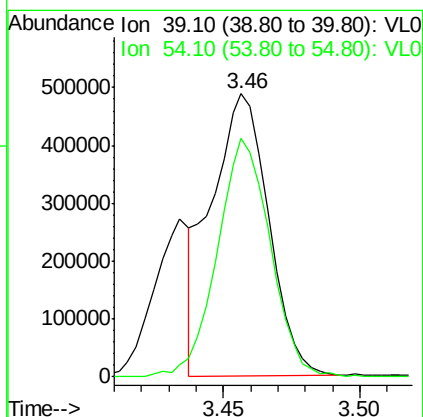
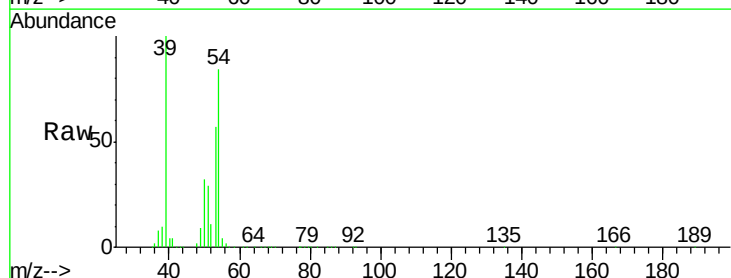
Acq: 12 Apr 2018 00:18

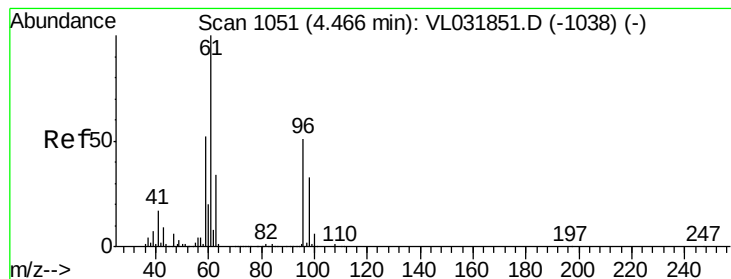
Tgt Ion: 39 Resp: 711468

Ion Ratio Lower Upper

39 100

54 79.1 67.5 101.3





#17

tert-Butyl alcohol

Concen: 9.581 ppbv

RT: 4.47 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 59 Resp: 762419

Ion Ratio Lower Upper

59 100

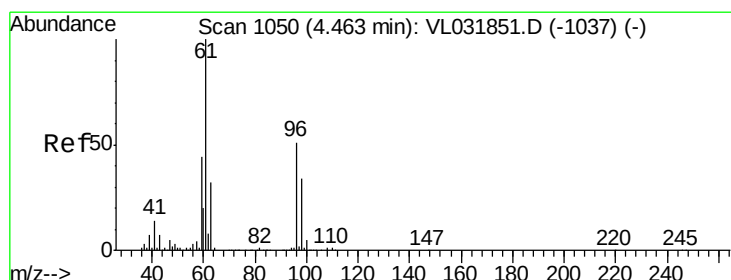
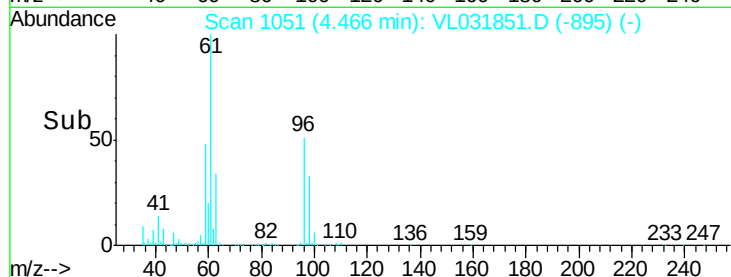
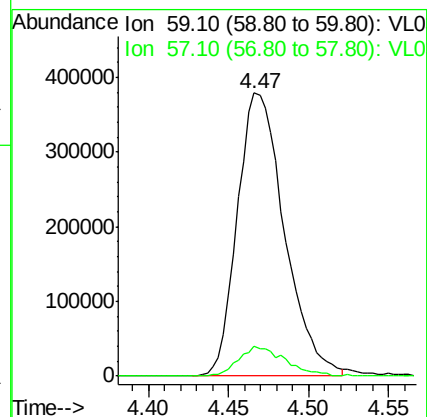
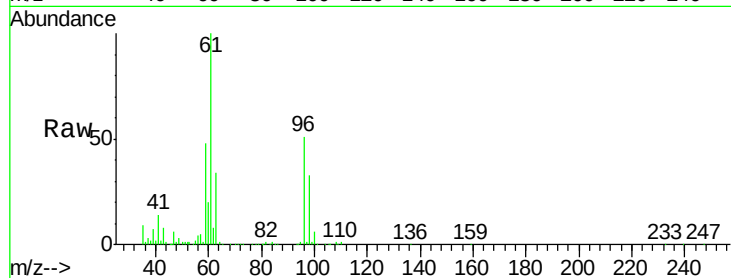
57 10.6 8.3 12.5

Manual Integrations

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#18

1,1-Dichloroethene

Concen: 9.021 ppbv

RT: 4.46 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

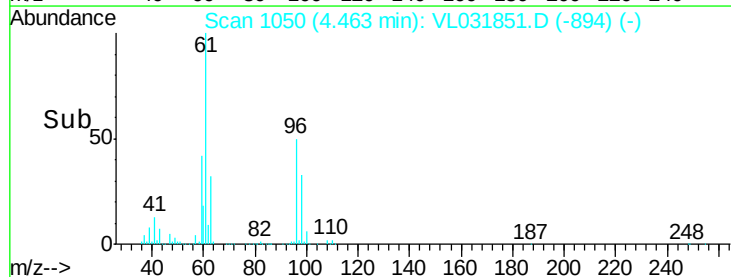
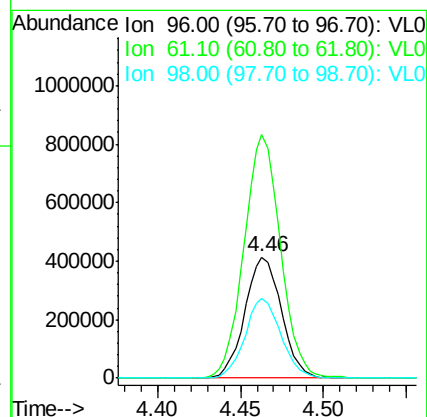
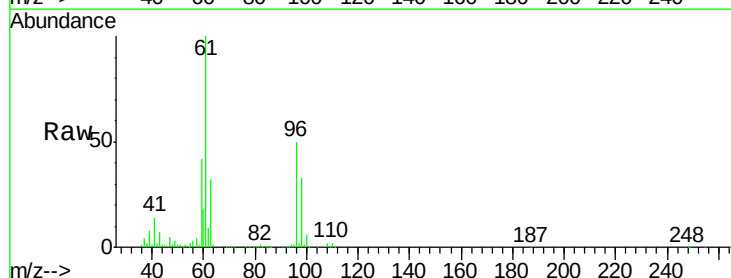
Tgt Ion: 96 Resp: 633311

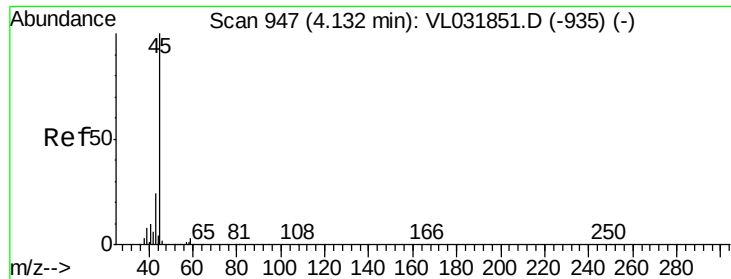
Ion Ratio Lower Upper

96 100

61 201.3 157.2 235.8

98 65.9 53.0 79.4





#19

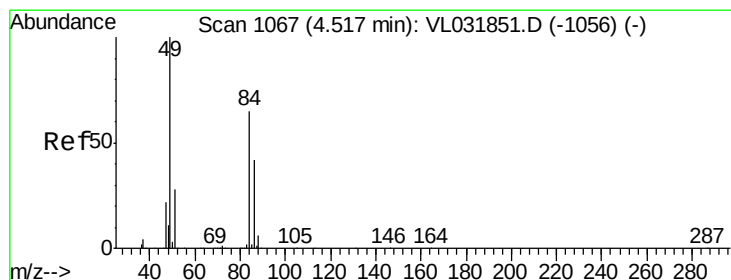
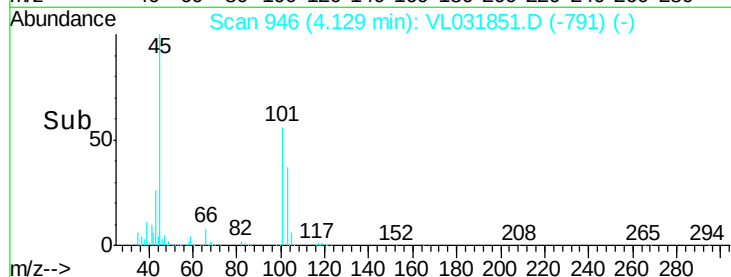
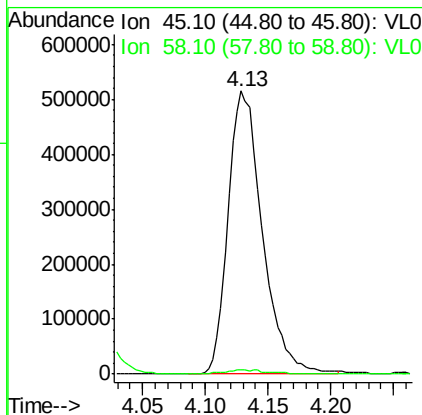
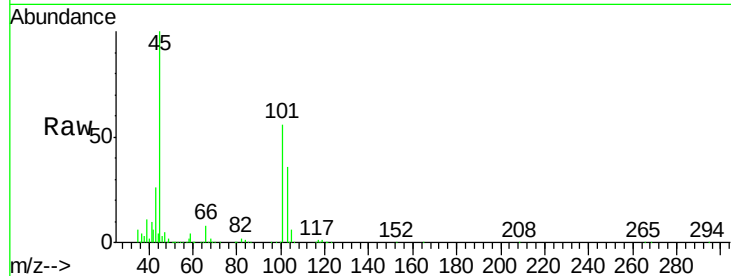
Isopropyl Alcohol
 Concen: 9.123 ppbv
 RT: 4.13 min Scan# 946
 Delta R.T. -0.00 min
 Lab File: VL031851.D
 Acq: 12 Apr 2018 00:18

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
45	100		
58	2.1	1.4	2.0#

Manual Integrations
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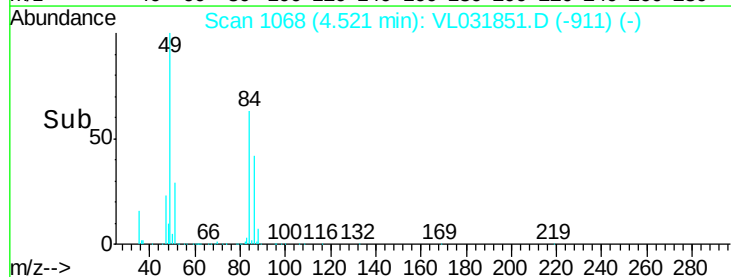
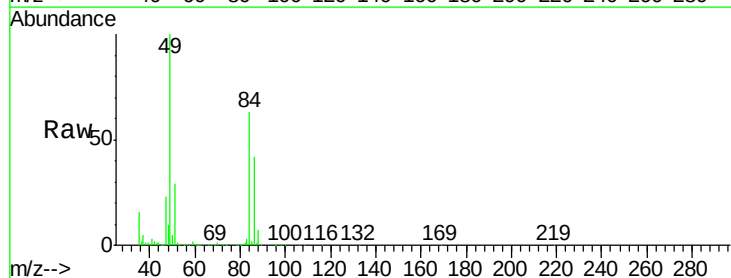
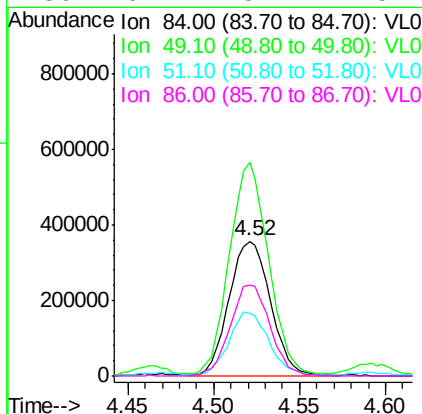
MMDadoda
 4/15/2018 3:05:51 PM

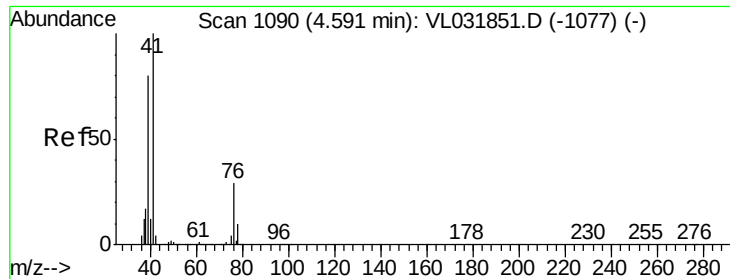


#20

Methylene Chloride
 Concen: 8.405 ppbv
 RT: 4.52 min Scan# 1068
 Delta R.T. 0.00 min
 Lab File: VL031851.D
 Acq: 12 Apr 2018 00:18

Tgt Ion	Ratio	Lower	Upper
84	100		
49	157.0	123.3	184.9
51	45.5	35.0	52.6
86	67.1	52.2	78.2





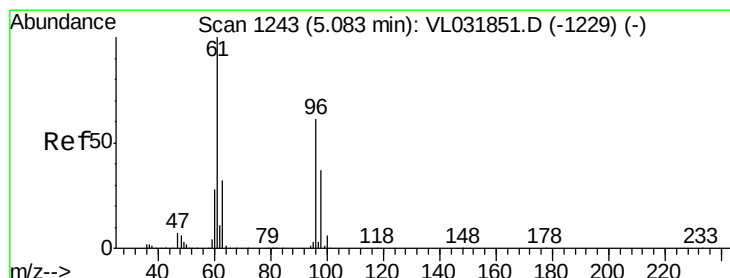
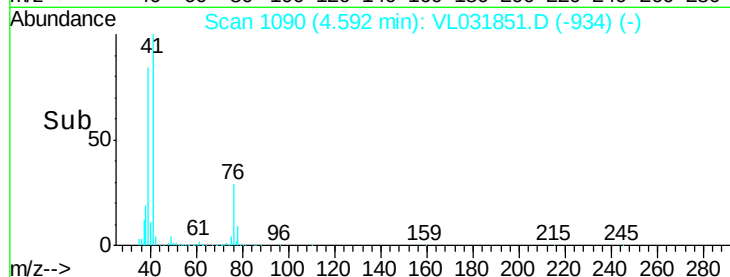
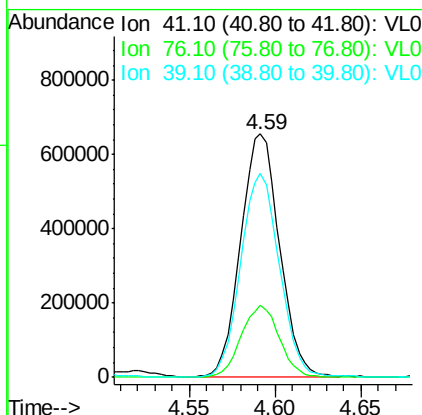
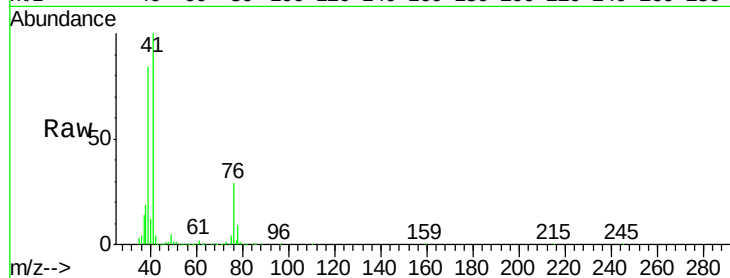
#21
Allvl Chloride
Concen: 9.328 ppbv
RT: 4.59 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VL031851.D
Acq: 12 Apr 2018 00:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 41 Resp: 1024668
Ion Ratio Lower Upper
41 100
76 29.3 23.4 35.0
39 84.5 65.4 98.2

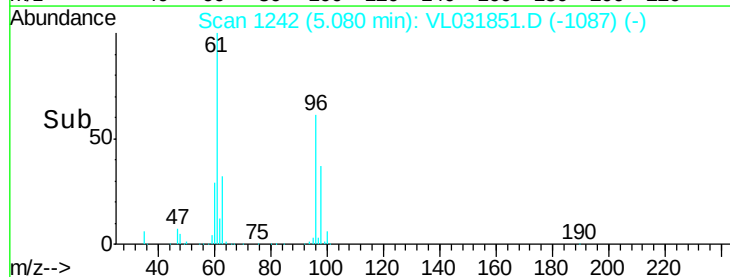
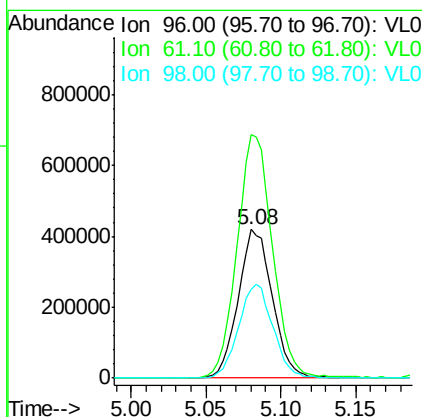
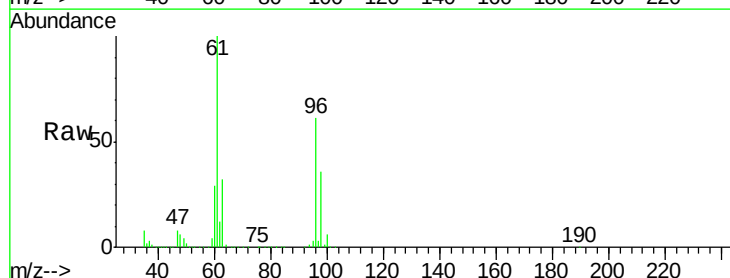
Manual Integrations
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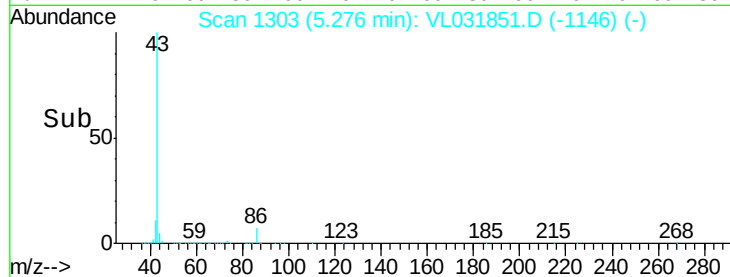
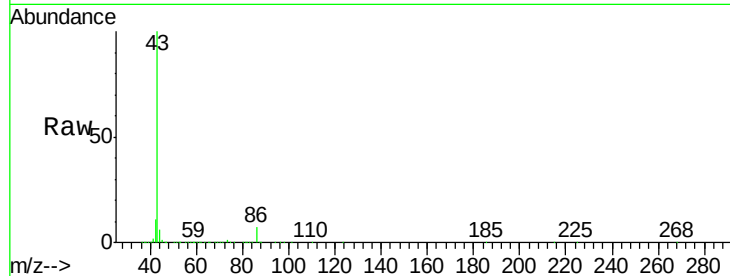
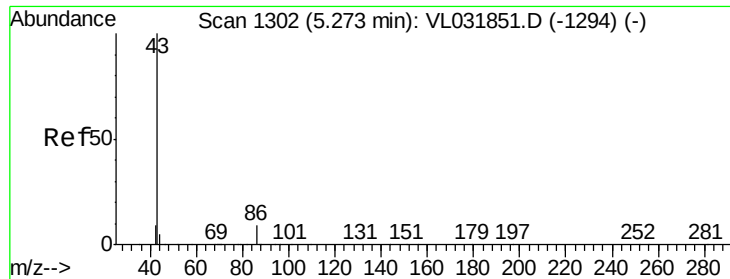
MMDadoda
4/15/2018 3:05:51 PM



#22
trans-1,2-Dichloroethene
Concen: 9.124 ppbv
RT: 5.08 min Scan# 1242
Delta R.T. -0.00 min
Lab File: VL031851.D
Acq: 12 Apr 2018 00:18

Tgt Ion: 96 Resp: 667188
Ion Ratio Lower Upper
96 100
61 163.9 130.2 195.2
98 59.5 48.2 72.2





#23

Vinyl Acetate

Concen: 9.423 ppbv

RT: 5.28 min Scan# 1303

Delta R.T. 0.00 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

Tot Ion: 43 Resp: 1865576

Ion Ratio Lower Upper

43 100

86 7.3 6.4 9.6

42 10.6 8.2 12.2

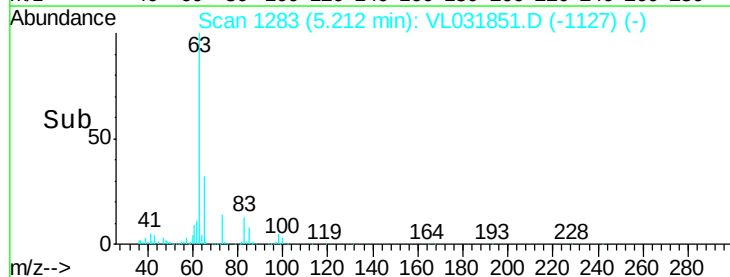
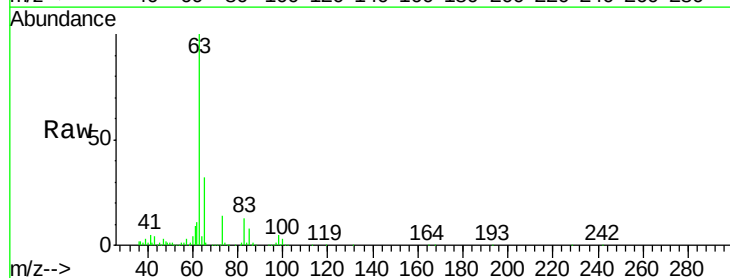
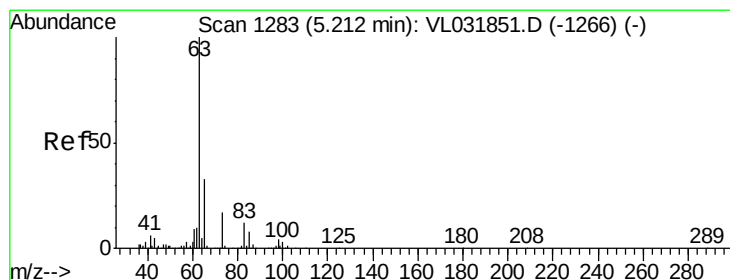
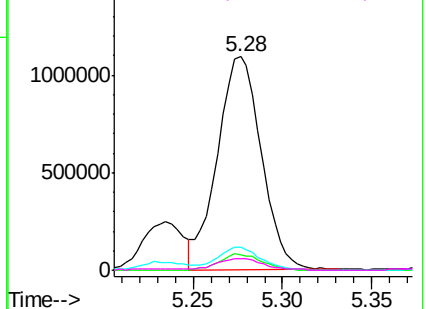
44 5.3 4.1 6.1

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: 8.565 ppbv

RT: 5.21 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

Tgt Ion: 63 Resp: 1670951

Ion Ratio Lower Upper

63 100

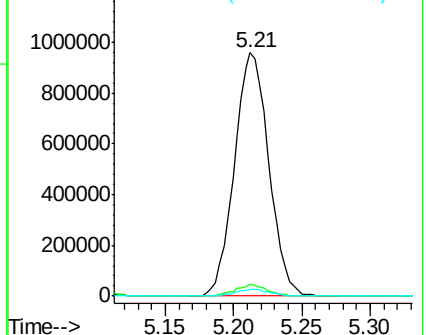
98 4.8 2.2 6.6

100 2.9 1.7 5.0

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



Instrument :

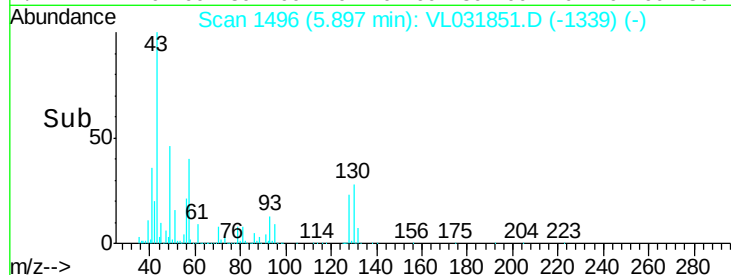
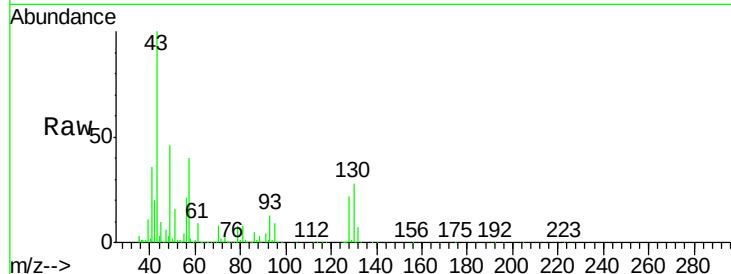
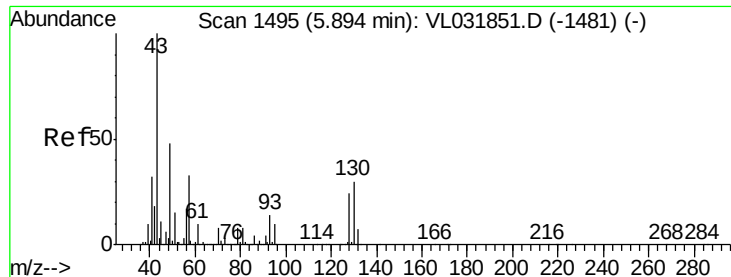
MSVOA_L

ClientSampleId :

VSTDICCC010

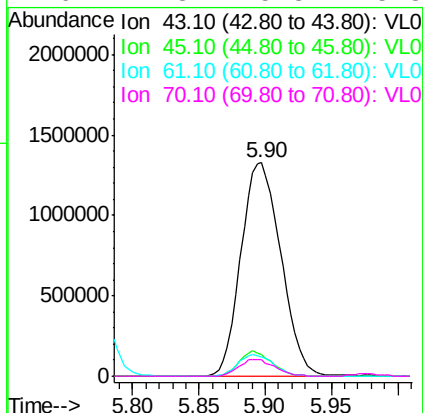
Manual Integrations
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MMDadoda
4/15/2018 3:05:51 PM



#25
Ethyl Acetate
Concen: 9.243 ppbv
RT: 5.90 min Scan# 1496
Delta R.T. 0.00 min
Lab File: VL031851.D
Acq: 12 Apr 2018 00:18

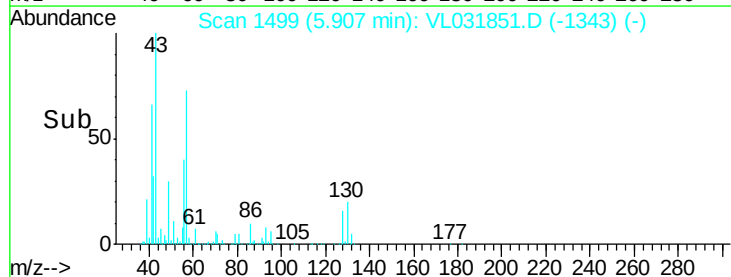
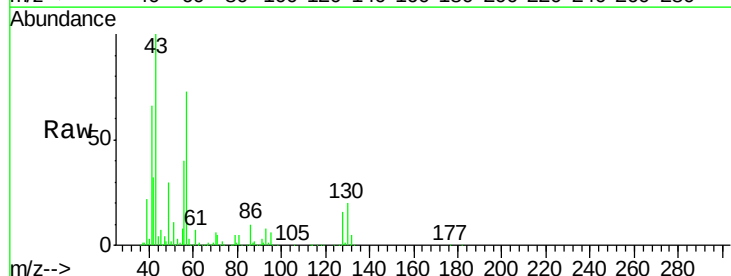
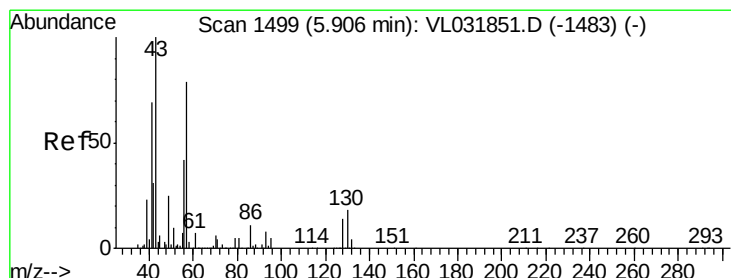
Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.8	7.8	11.8	
61	9.0	7.5	11.3	
70	7.3	5.8	8.8	



Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

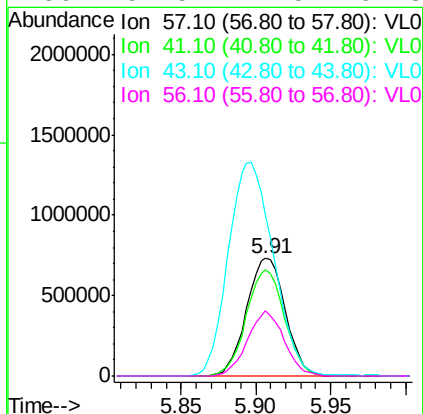
Manual Integrations
APPROVED

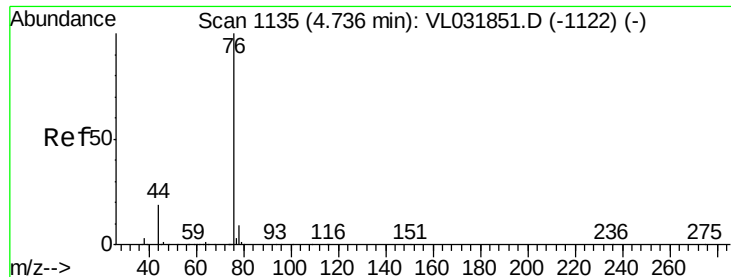
MMDadoda
4/15/2018 3:05:51 PM



#26
Hexane
Concen: 9.408 ppbv
RT: 5.91 min Scan# 1499
Delta R.T. 0.00 min
Lab File: VL031851.D
Acq: 12 Apr 2018 00:18

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	90.0	71.7	107.5	
43	212.3	172.0	258.0	
56	52.5	41.5	62.3	





#27

Carbon Disulfide

Concen: 9.850 ppbv

RT: 4.74 min Scan# 1135

Delta R.T. 0.00 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 76 Resp: 1775162

Ion Ratio Lower Upper

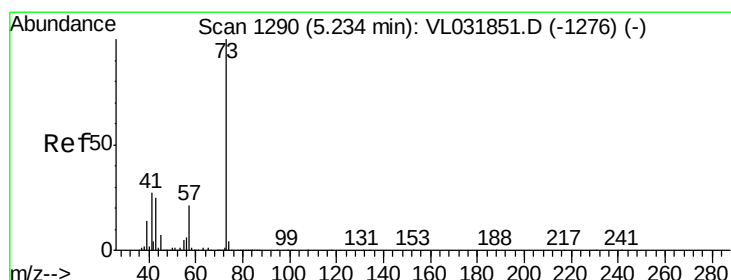
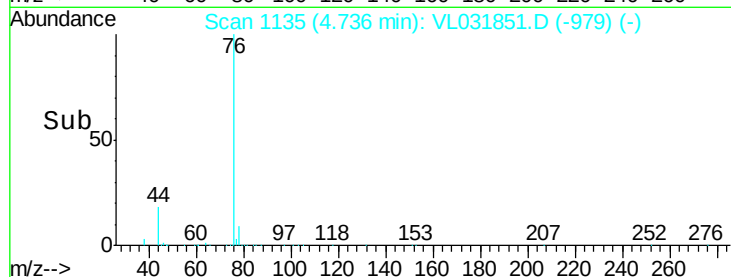
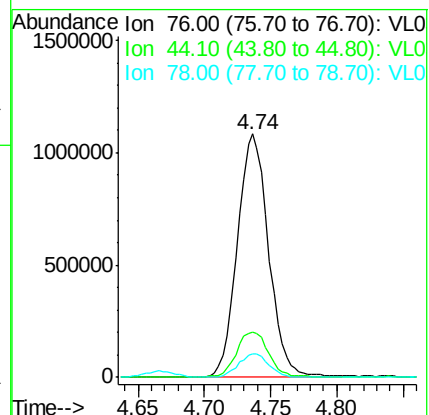
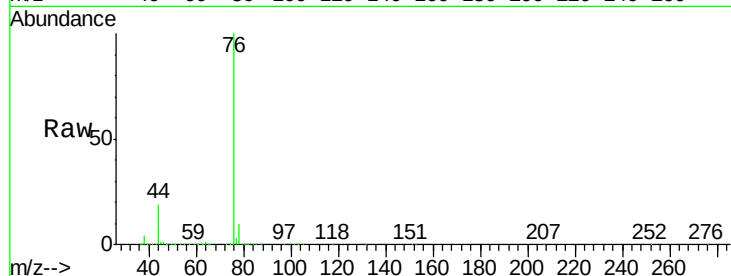
76 100

44 19.5 14.8 22.2

78 9.5 7.4 11.2

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#28

Methyl tert-Butyl Ether

Concen: 9.370 ppbv

RT: 5.23 min Scan# 1289

Delta R.T. -0.00 min

Lab File: VL031851.D

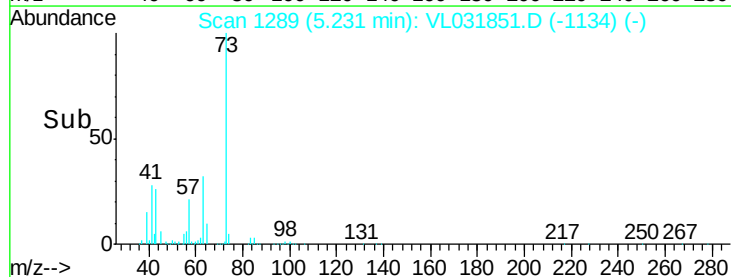
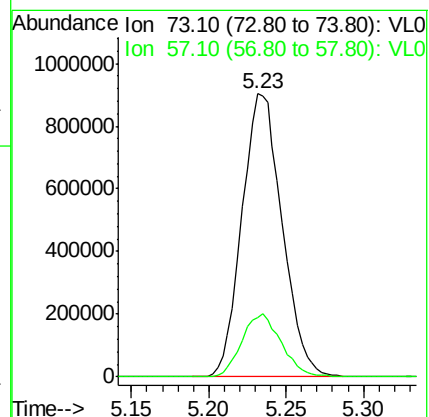
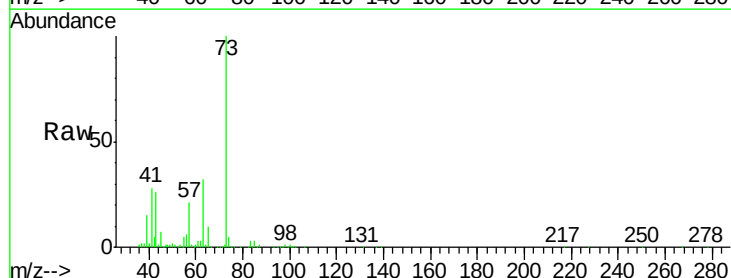
Acq: 12 Apr 2018 00:18

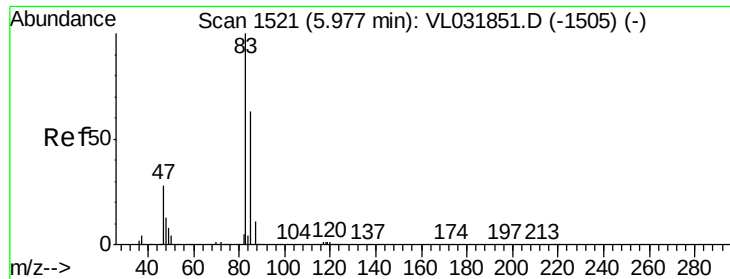
Tgt Ion: 73 Resp: 1633005

Ion Ratio Lower Upper

73 100

57 22.0 17.3 25.9





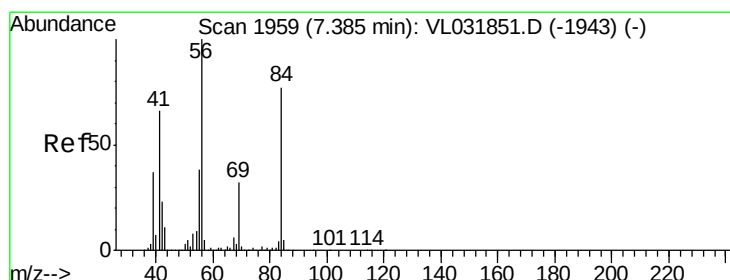
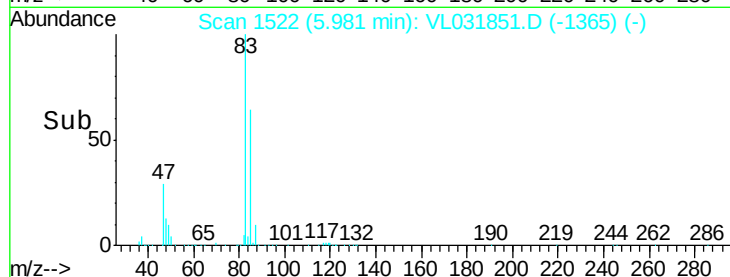
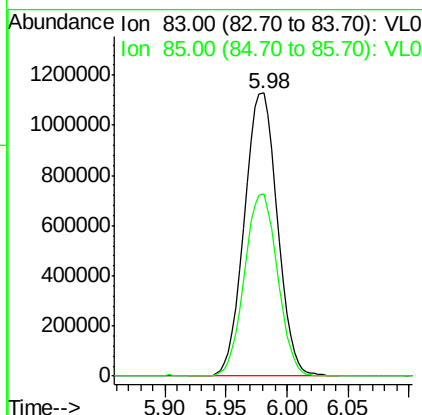
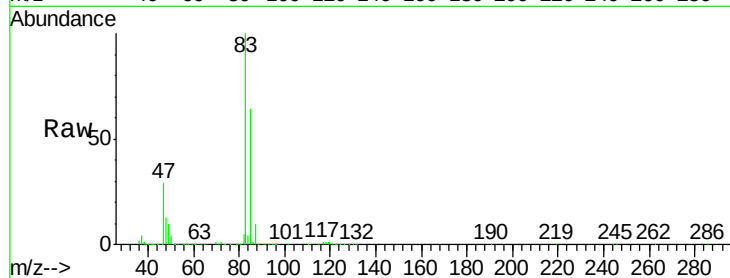
#29
Chloroform
Concen: 8.913 ppbv
RT: 5.98 min Scan# 1522
Delta R.T. 0.00 min
Lab File: VL031851.D
Acq: 12 Apr 2018 00:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 83 Resp: 2104124
Ion Ratio Lower Upper
83 100
85 64.2 50.4 75.6

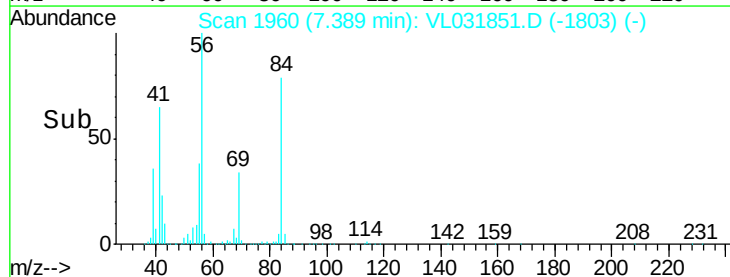
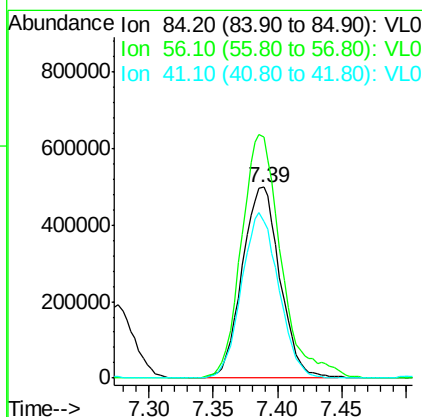
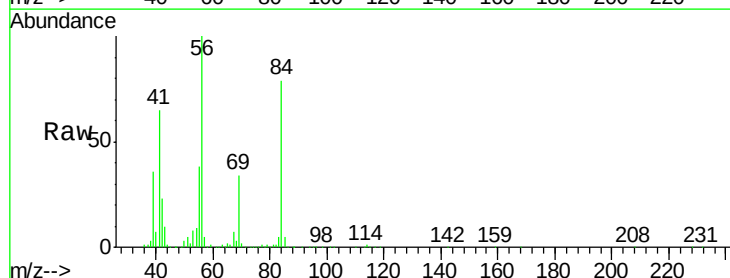
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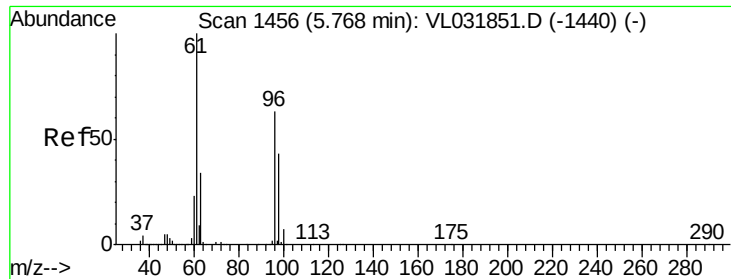
MMDadoda
4/15/2018 3:05:51 PM



#30
Cyclohexane
Concen: 10.179 ppbv
RT: 7.39 min Scan# 1960
Delta R.T. 0.00 min
Lab File: VL031851.D
Acq: 12 Apr 2018 00:18

Tgt Ion: 84 Resp: 1015496
Ion Ratio Lower Upper
84 100
56 134.6 108.6 162.8
41 85.2 67.8 101.8





#31

cis-1,2-Dichloroethene

Concen: 9.644 ppbv

RT: 5.77 min Scan# 1455

Delta R.T. -0.00 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 61 Resp: 1227375

Ion Ratio Lower Upper

61 100

96 59.5 50.4 75.6

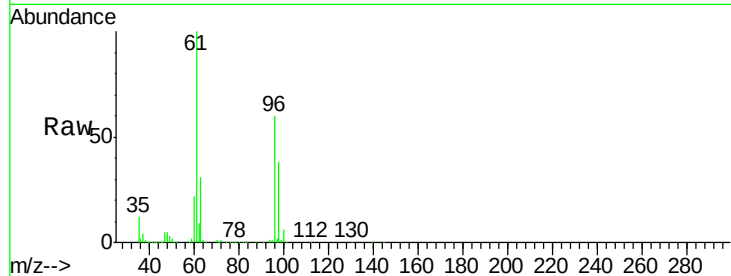
98 37.9 34.1 51.1

Manual Integrations

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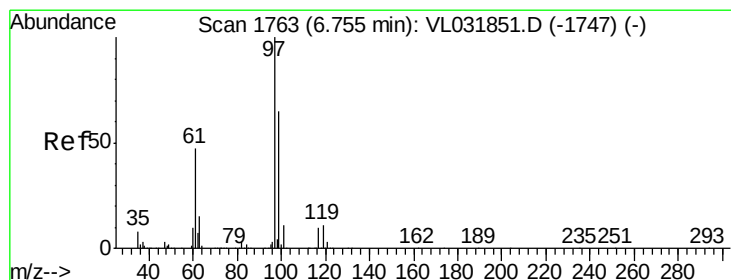
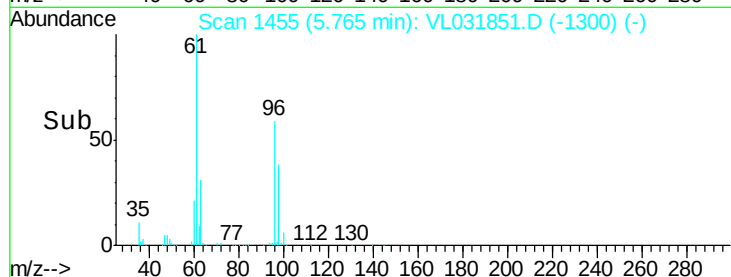
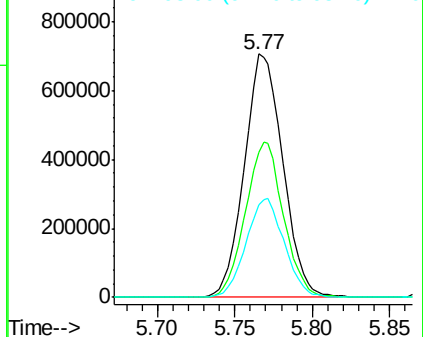
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Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 9.123 ppbv

RT: 6.76 min Scan# 1763

Delta R.T. 0.00 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

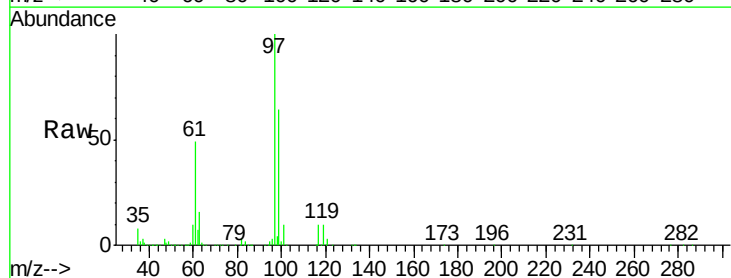
Tgt Ion: 97 Resp: 2101121

Ion Ratio Lower Upper

97 100

99 64.4 51.5 77.3

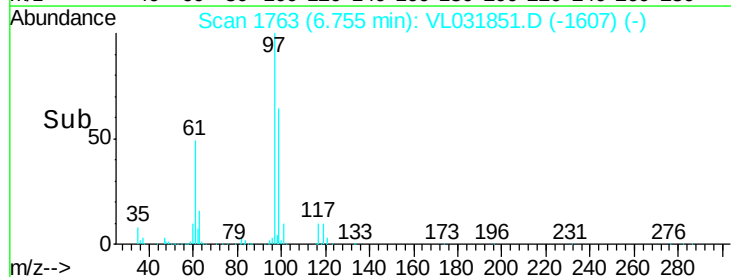
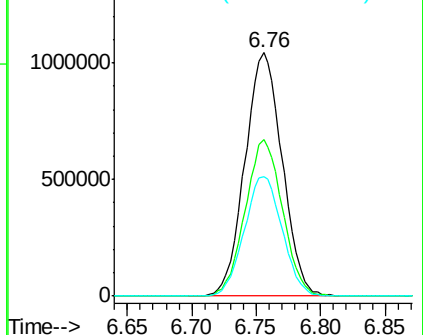
61 50.0 39.0 58.4

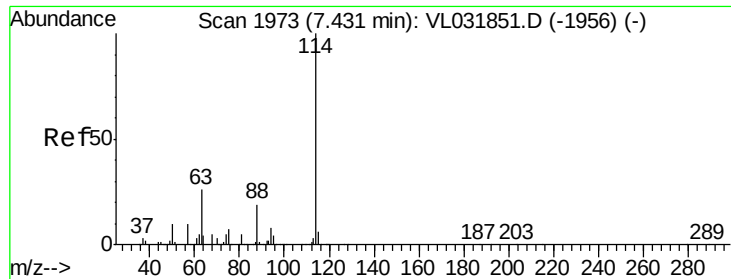


Abundance Ion 97.00 (96.70 to 97.70): VL0

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# 1974

Delta R.T. 0.00 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:114 Resp: 2869326

Ion Ratio Lower Upper

114 100

63 27.2 21.4 32.2

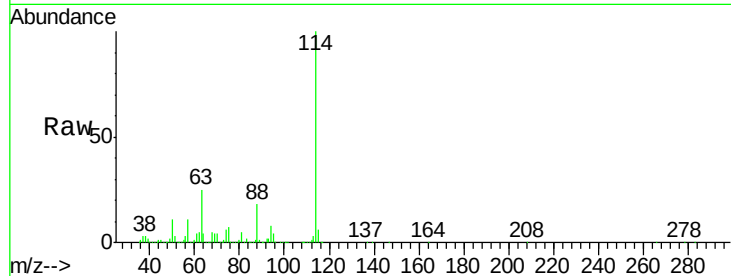
88 18.3 14.7 22.1

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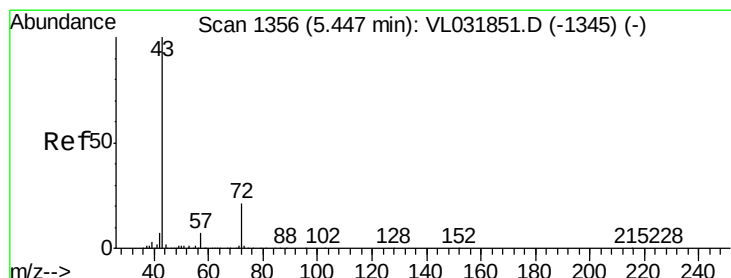
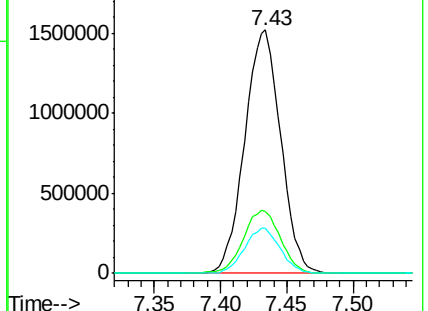
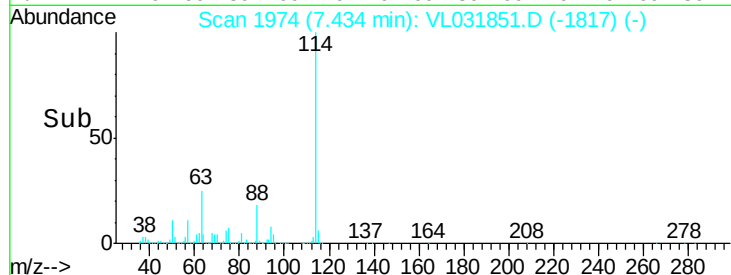
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Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 8.986 ppbv

RT: 5.45 min Scan# 1357

Delta R.T. 0.00 min

Lab File: VL031851.D

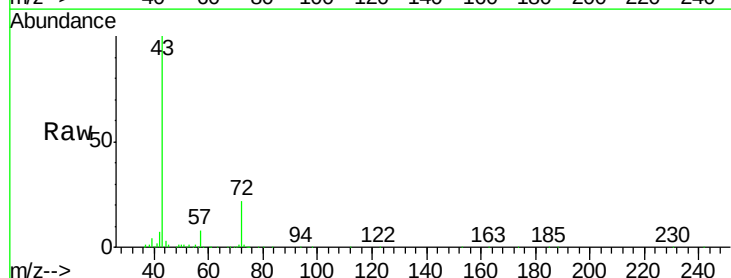
Acq: 12 Apr 2018 00:18

Tgt Ion: 43 Resp: 1793733

Ion Ratio Lower Upper

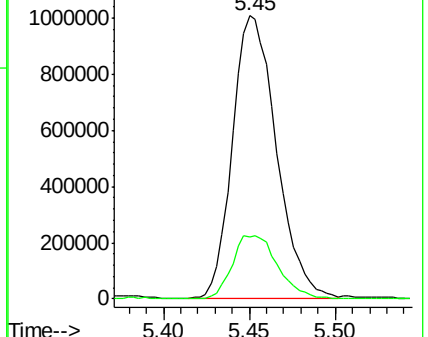
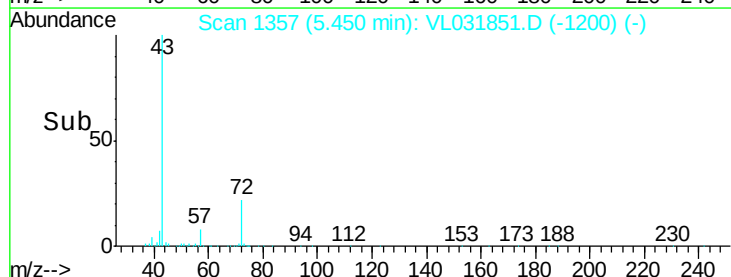
43 100

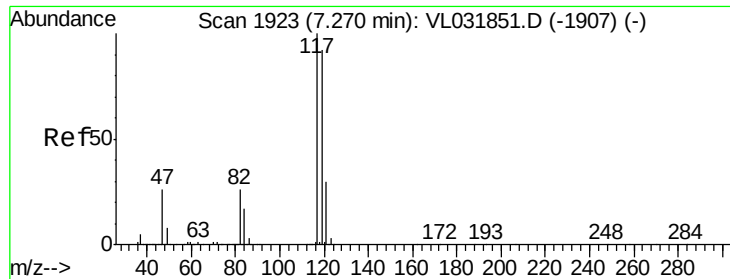
72 23.2 18.6 28.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





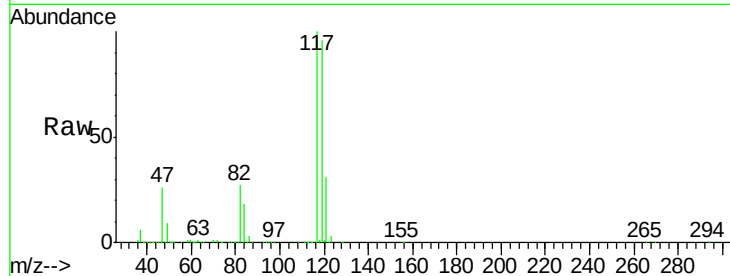
#35
Carbon Tetrachloride
Concen: 8.712 ppbv
RT: 7.27 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VL031851.D
Acq: 12 Apr 2018 00:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

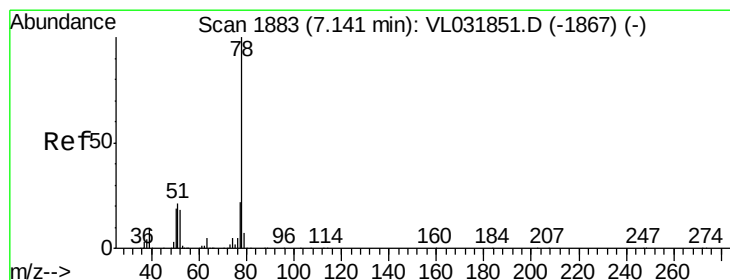
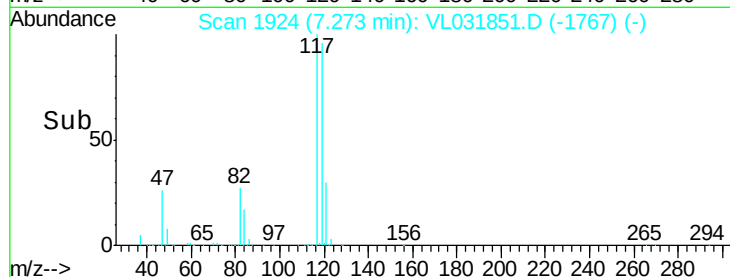
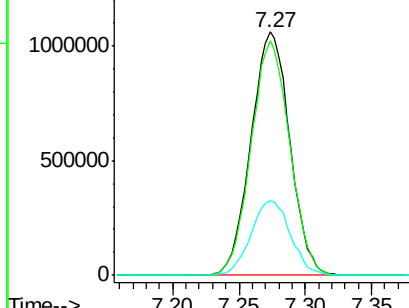
Tot Ion	Ratio	Lower	Upper
117	100		
119	96.1	73.4	110.0
121	30.6	24.2	36.4

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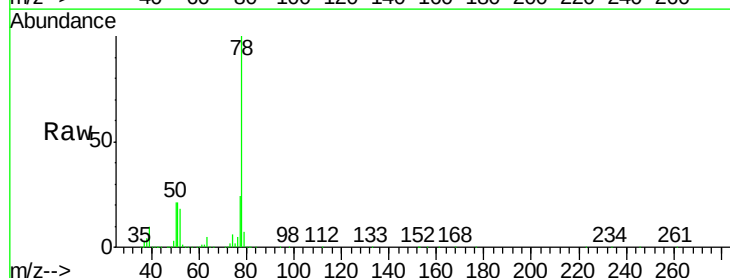


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

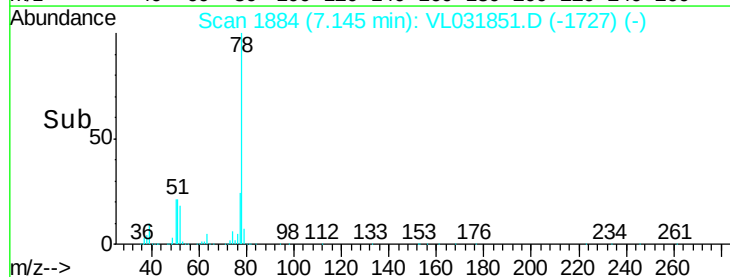
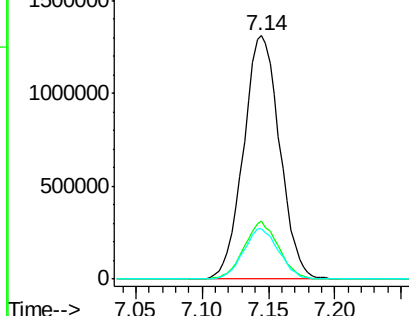


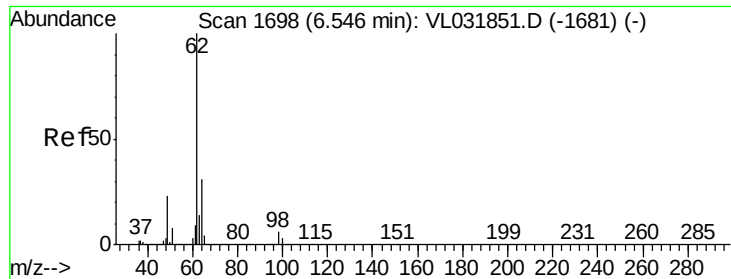
#36
Benzene
Concen: 9.581 ppbv
RT: 7.14 min Scan# 1884
Delta R.T. 0.00 min
Lab File: VL031851.D
Acq: 12 Apr 2018 00:18

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.0	17.8	26.8
50	20.9	15.0	22.6



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





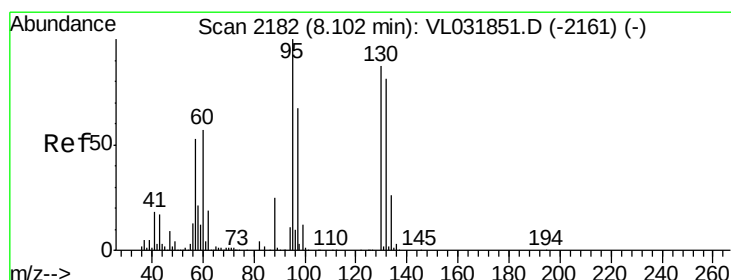
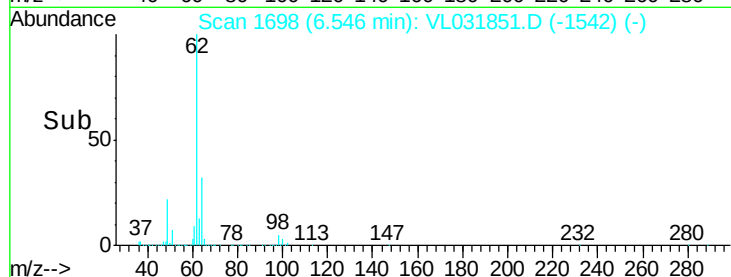
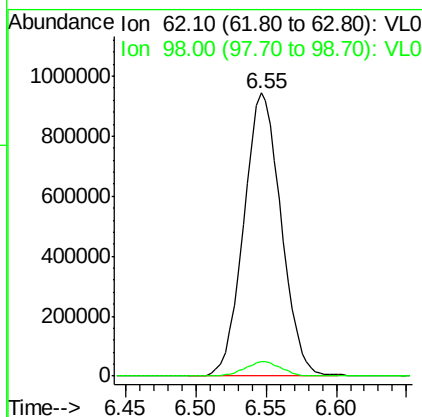
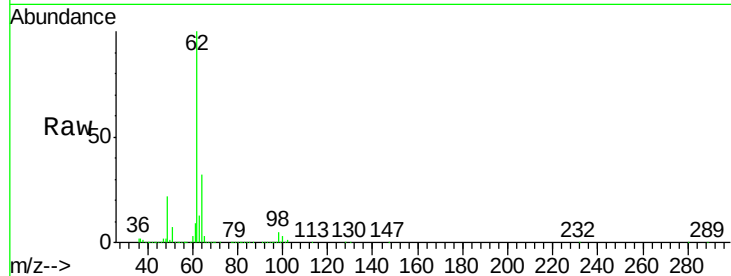
#37
 1,2-Dichloroethane
 Concen: 9.100 ppbv
 RT: 6.55 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VL031851.D
 Acq: 12 Apr 2018 00:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 62 Resp: 1750115
 Ion Ratio Lower Upper
 62 100
 98 5.0 4.5 6.7

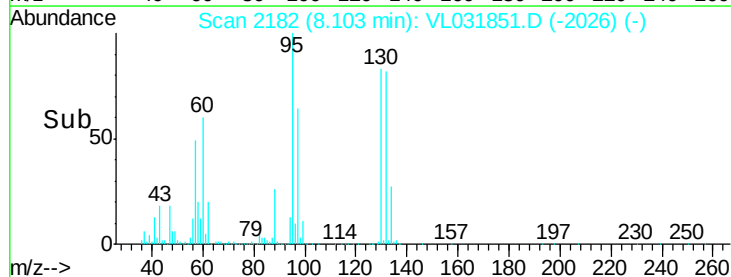
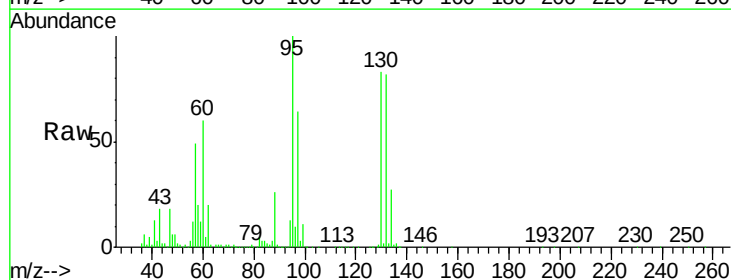
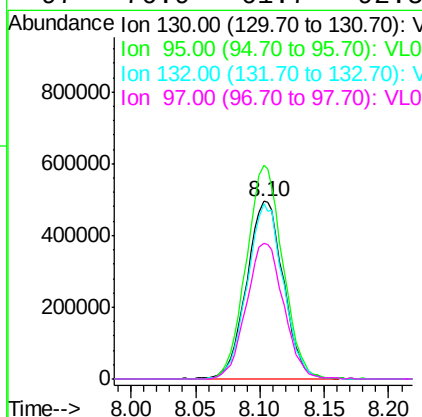
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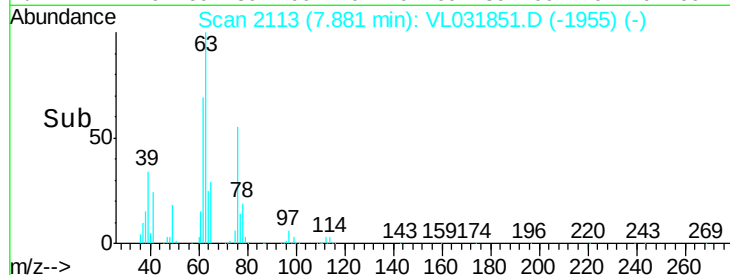
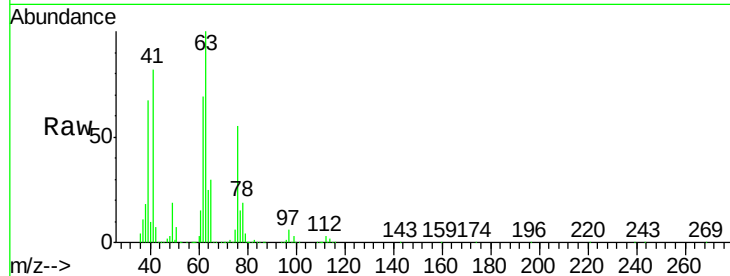
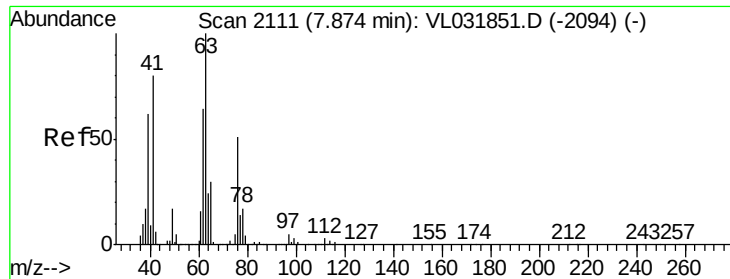
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#38
 Trichloroethene
 Concen: 9.296 ppbv
 RT: 8.10 min Scan# 2182
 Delta R.T. 0.00 min
 Lab File: VL031851.D
 Acq: 12 Apr 2018 00:18

Tgt Ion:130 Resp: 976921
 Ion Ratio Lower Upper
 130 100
 95 120.7 92.1 138.1
 132 98.9 74.8 112.2
 97 76.9 61.7 92.5





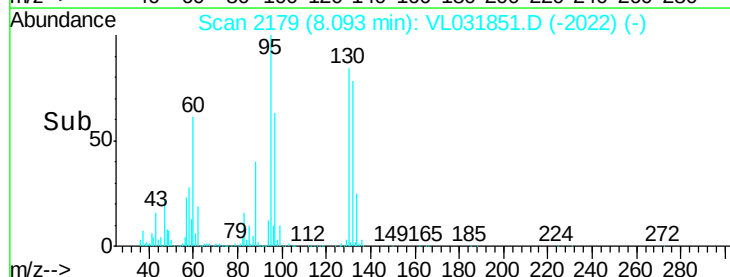
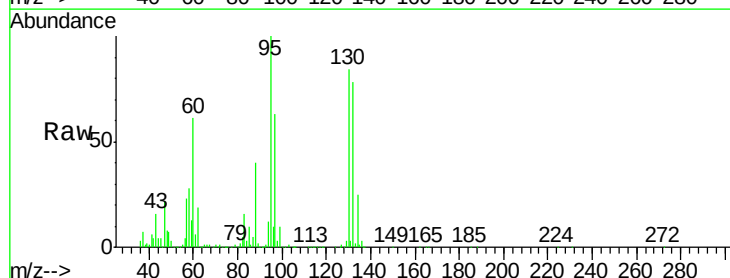
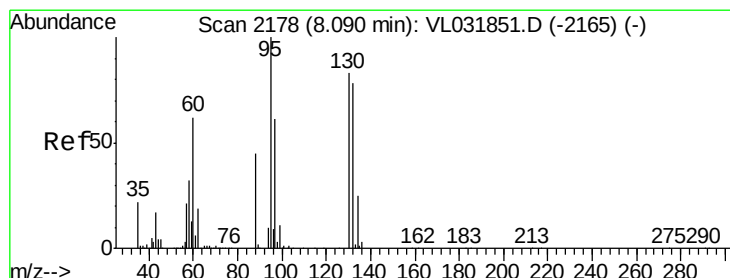
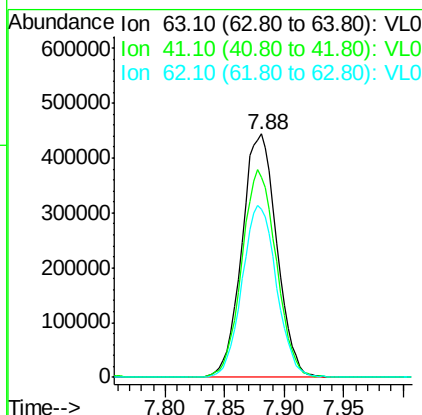
#39
 1,2-Dichloropropane
 Concen: 9.343 ppbv
 RT: 7.88 min Scan# 2113
 Delta R.T. 0.01 min
 Lab File: VL031851.D
 Acq: 12 Apr 2018 00:18

Tot Ion	Ratio	Resp	Lower	Upper
63	100	901383		
41	82.2		64.1	96.1
62	68.8		51.5	77.3

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

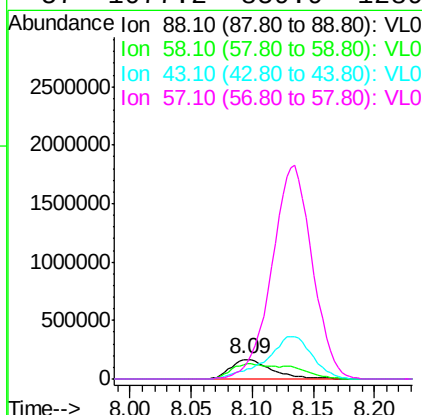
Manual Integrations
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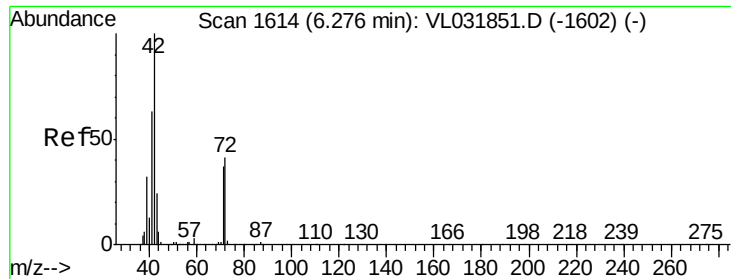
MMDadoda
 4/15/2018 3:05:51 PM



#40
 1,4-Dioxane
 Concen: 10.089 ppbv
 RT: 8.09 min Scan# 2179
 Delta R.T. 0.00 min
 Lab File: VL031851.D
 Acq: 12 Apr 2018 00:18

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	392790		
58	123.1		99.3	148.9
43	242.9		197.3	295.9
57	1077.2		859.9	1289.9





#41

Tetrahydrofuran

Concen: 9.665 ppbv

RT: 6.28 min Scan# 1615

Delta R.T. 0.00 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

Instrument :

MSVOA_L

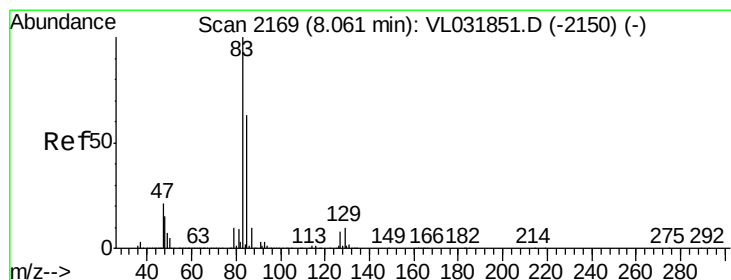
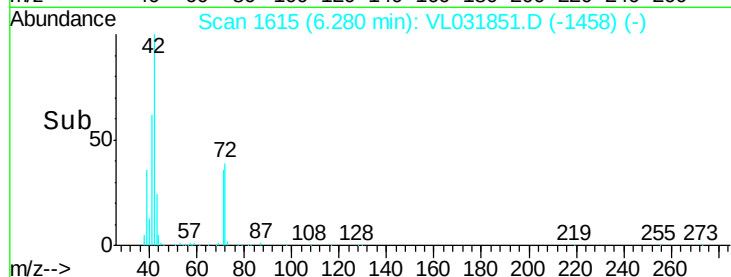
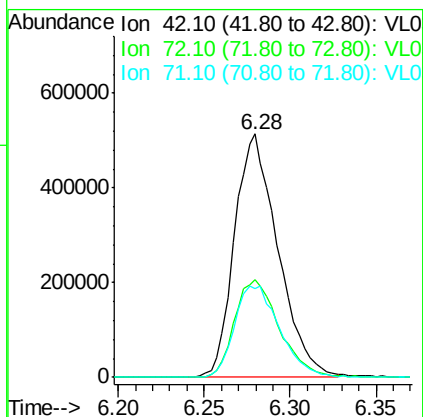
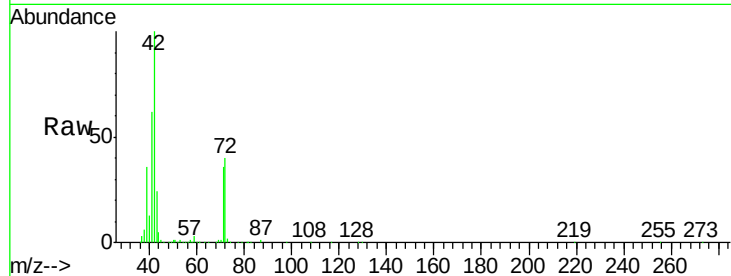
ClientSampleId :

VSTDICCC010

Tot Ion:	42	Resp:	905019
Ion Ratio		Lower	Upper
42	100		
72	41.5	32.5	48.7
71	39.4	31.3	46.9

Manual Integrations
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#42

Bromodichloromethane

Concen: 9.358 ppbv

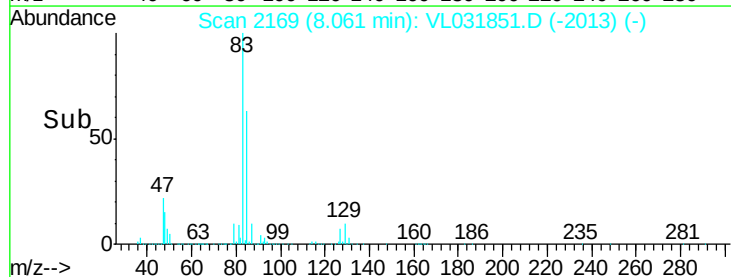
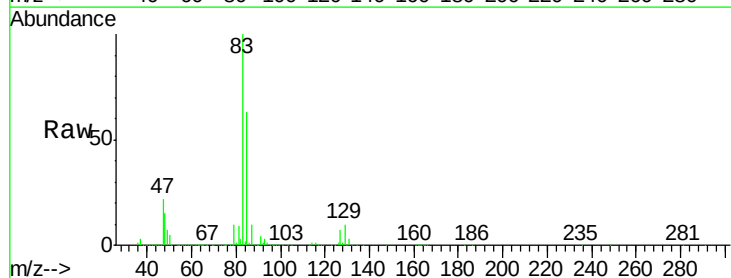
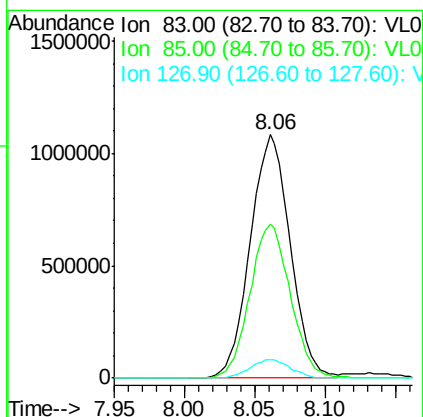
RT: 8.06 min Scan# 2169

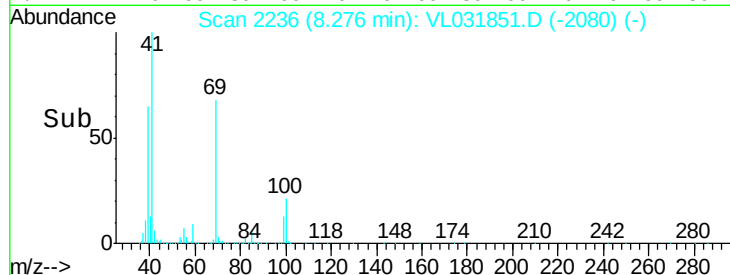
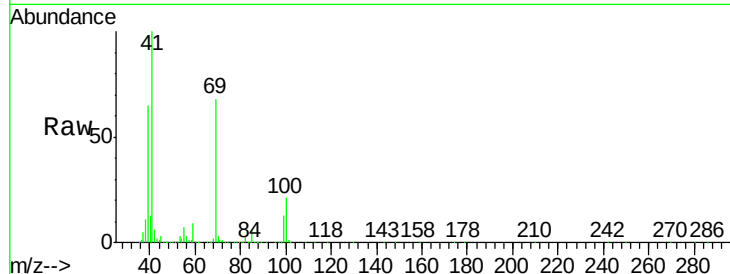
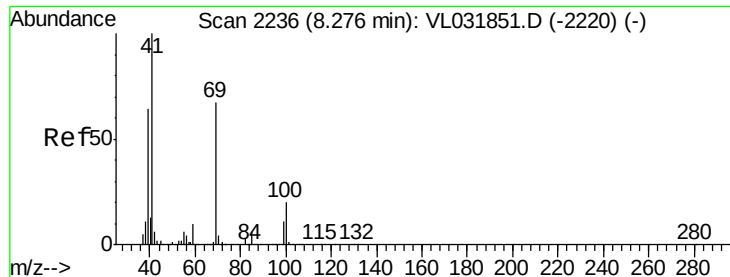
Delta R.T. 0.00 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

Tgt Ion:	83	Resp:	2147821
Ion Ratio		Lower	Upper
83	100		
85	63.1	50.3	75.5
127	7.5	6.1	9.1





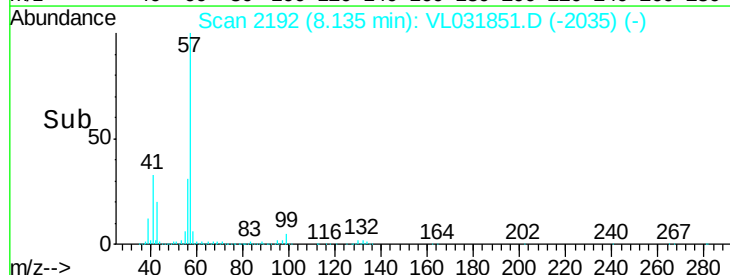
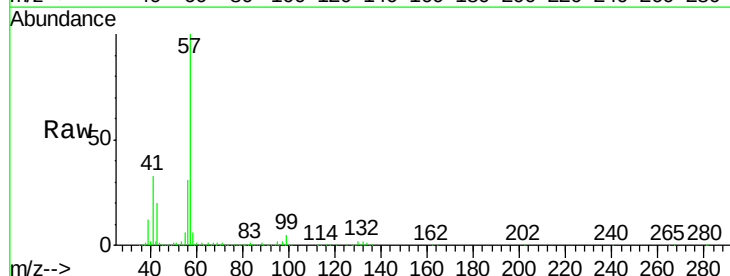
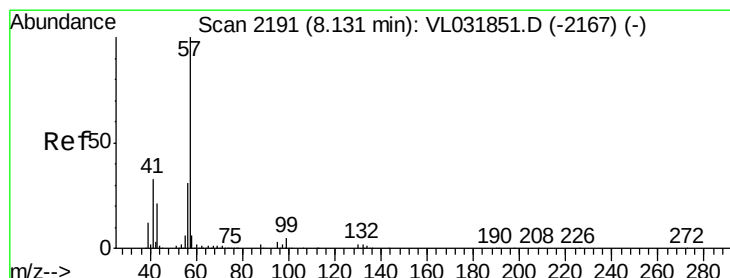
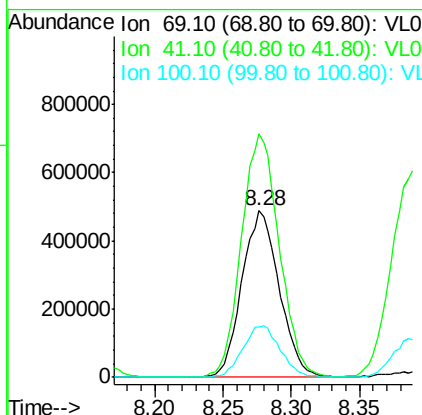
#43
Methyl Methacrylate
Concen: 10.220 ppbv
RT: 8.28 min Scan# 2236
Delta R.T. 0.00 min
Lab File: VL031851.D
Acq: 12 Apr 2018 00:18

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	147.3	119.8	179.8	
100	30.8	24.9	37.3	

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

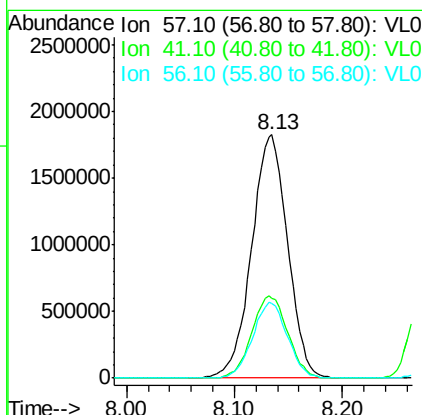
Manual Integrations
APPROVED

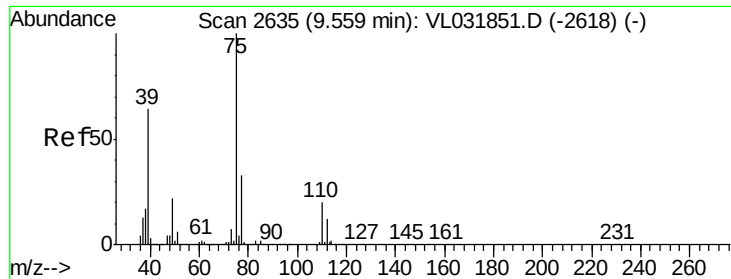
MMDadoda
4/15/2018 3:05:51 PM



#44
2,2,4-Trimethylpentane
Concen: 9.511 ppbv
RT: 8.13 min Scan# 2192
Delta R.T. 0.00 min
Lab File: VL031851.D
Acq: 12 Apr 2018 00:18

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	33.8	26.5	39.7	
56	30.1	24.2	36.4	





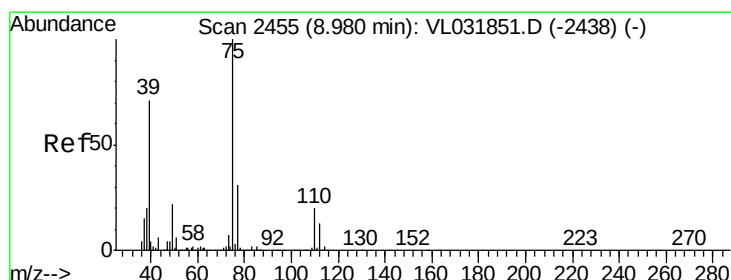
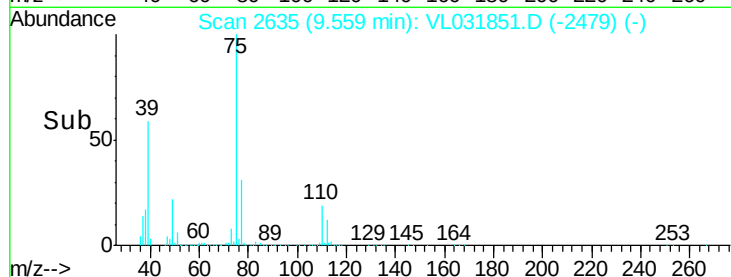
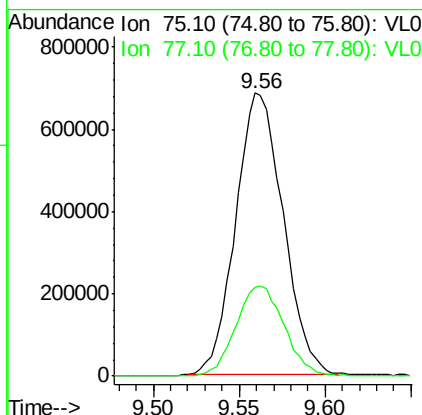
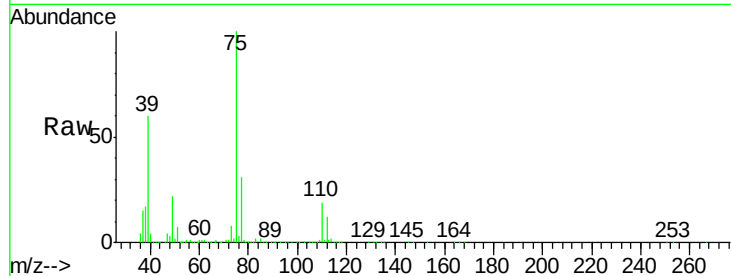
#45
t-1,3-Dichloropropene
Concen: 11.095 ppbv
RT: 9.56 min Scan# 2635
Delta R.T. 0.00 min
Lab File: VL031851.D
Acq: 12 Apr 2018 00:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 75 Resp: 1316637
Ion Ratio Lower Upper
75 100
77 31.4 26.2 39.4

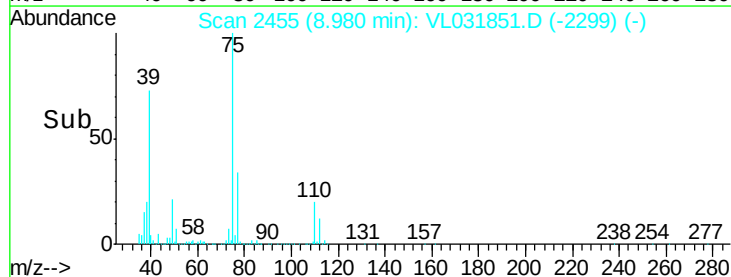
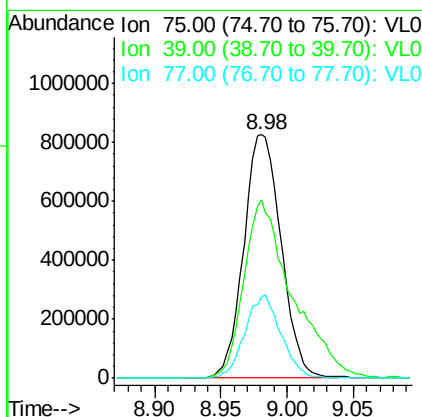
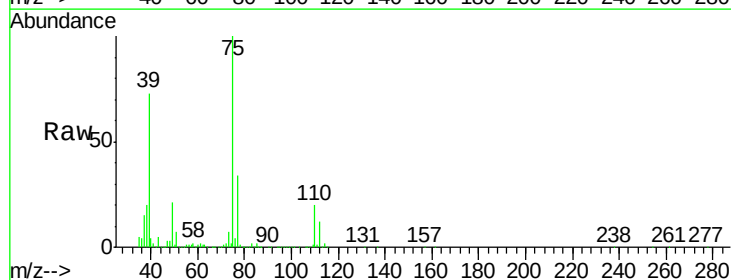
Manual Integrations
APPROVED

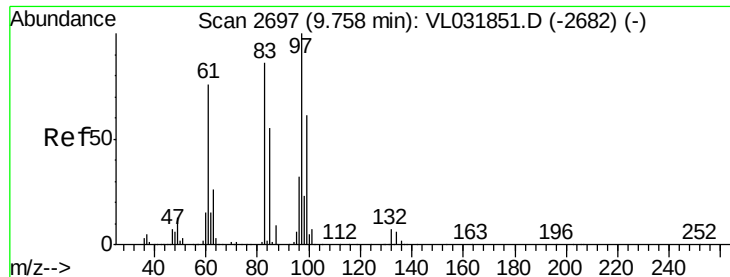
MMDadoda
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#46
cis-1,3-Dichloropropene
Concen: 10.724 ppbv
RT: 8.98 min Scan# 2455
Delta R.T. 0.00 min
Lab File: VL031851.D
Acq: 12 Apr 2018 00:18

Tgt Ion: 75 Resp: 1621197
Ion Ratio Lower Upper
75 100
39 73.2 56.9 85.3
77 33.5 25.1 37.7





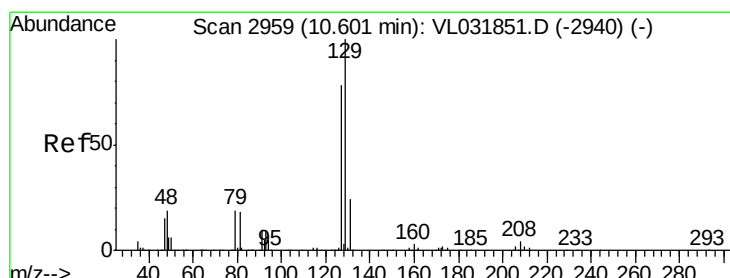
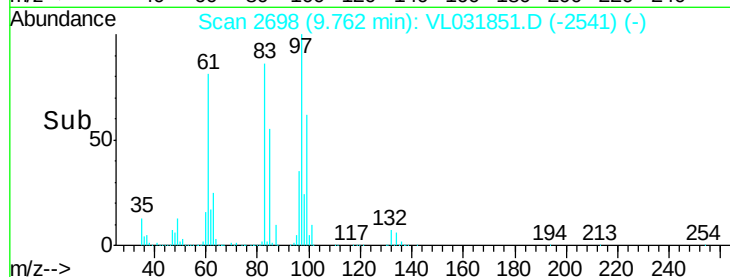
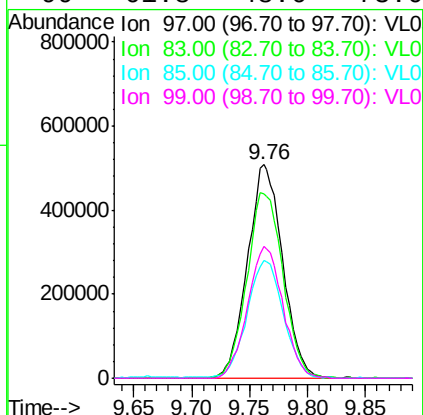
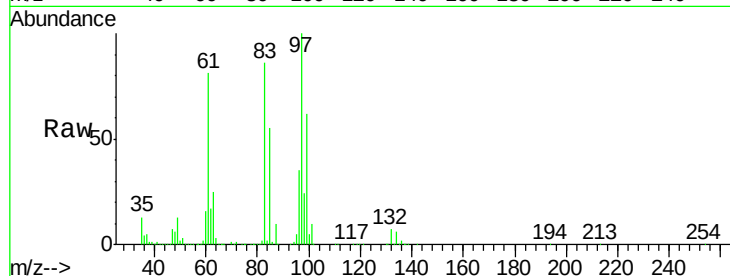
#47
 1,1,2-Trichloroethane
 Concen: 9.445 ppbv
 RT: 9.76 min Scan# 2698
 Delta R.T. 0.00 min
 Lab File: VL031851.D
 Acq: 12 Apr 2018 00:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
97	100		
83	86.4	68.4	102.6
85	54.6	44.5	66.7
99	61.8	48.6	73.0

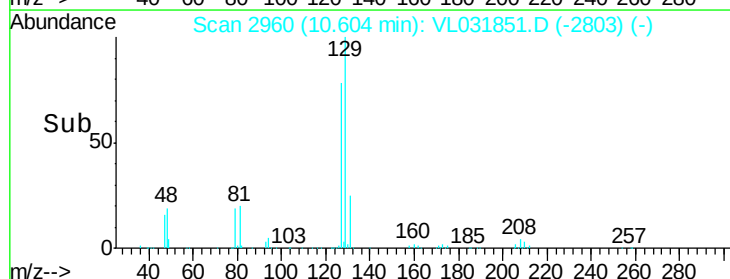
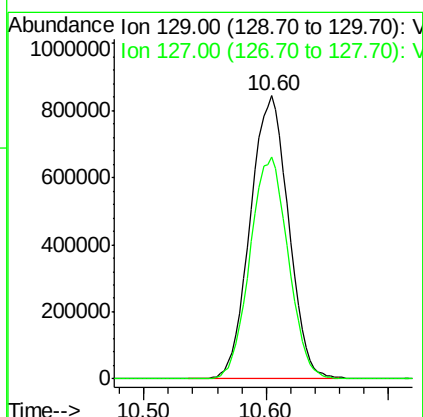
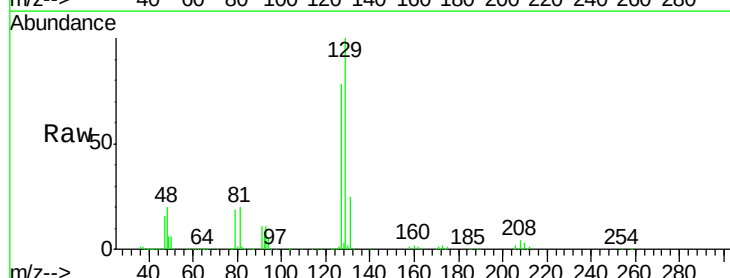
Manual Integrations
 APPROVED

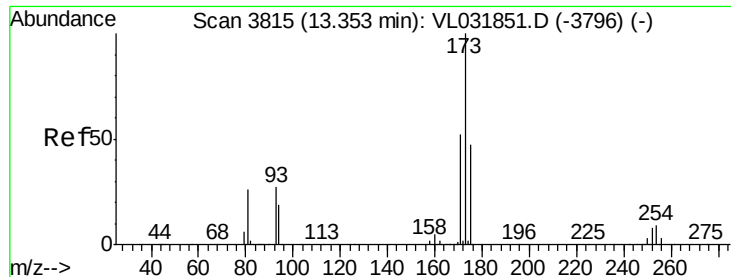
MMDadoda
 4/15/2018 3:05:51 PM



#48
 Dibromochloromethane
 Concen: 9.987 ppbv
 RT: 10.60 min Scan# 2960
 Delta R.T. 0.00 min
 Lab File: VL031851.D
 Acq: 12 Apr 2018 00:18

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.3	39.1	117.2





#49

Bromoform

Concen: 10.331 ppbv m

RT: 13.36 min Scan# 3817

Delta R.T. 0.01 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:173 Resp: 1443264

Ion Ratio Lower Upper

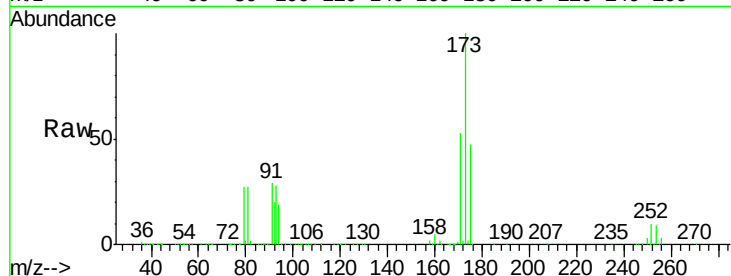
173 100

175 48.8 39.4 59.0

171 51.7 42.2 63.2

Manual Integrations
APPROVED

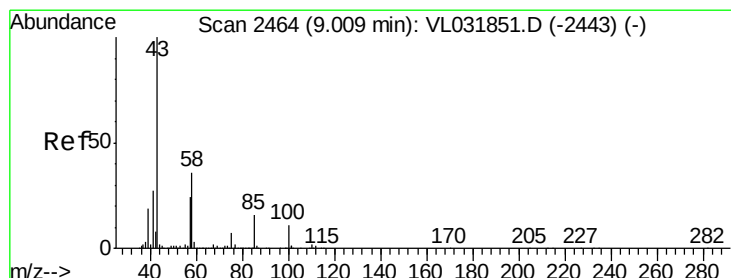
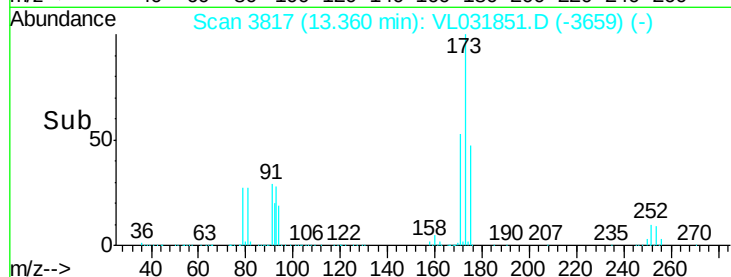
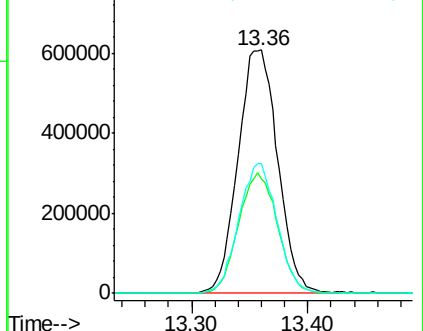
MMDadoda
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.973 ppbv

RT: 9.02 min Scan# 2466

Delta R.T. 0.01 min

Lab File: VL031851.D

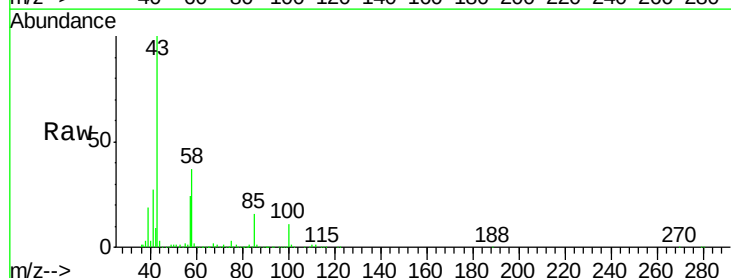
Acq: 12 Apr 2018 00:18

Tgt Ion: 43 Resp: 2268132

Ion Ratio Lower Upper

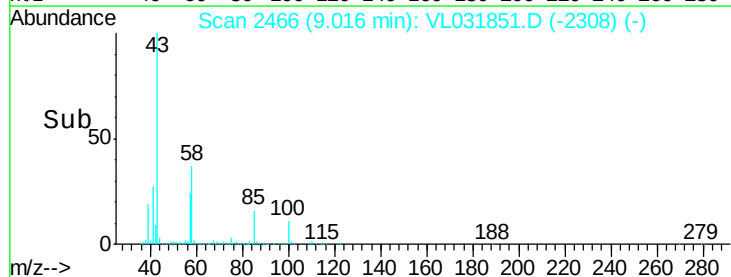
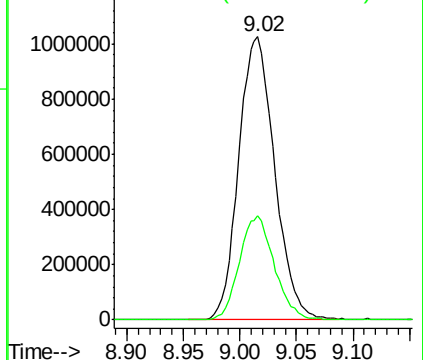
43 100

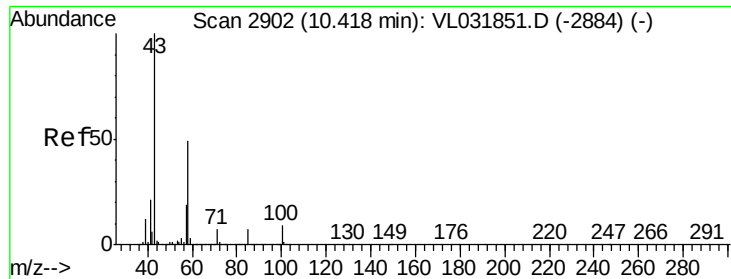
58 35.8 29.1 43.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 10.907 ppbv

RT: 10.42 min Scan# 2902

Delta R.T. 0.00 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 2161945

Ion Ratio Lower Upper

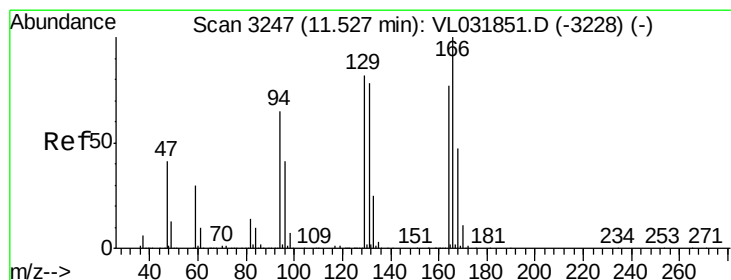
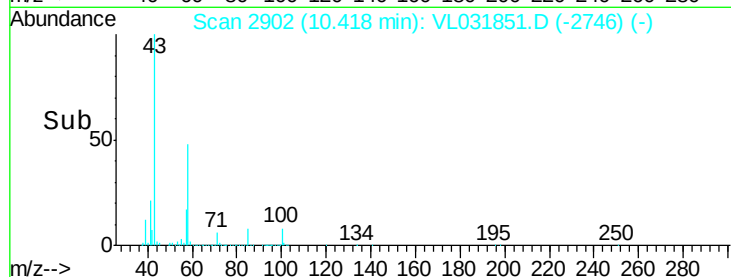
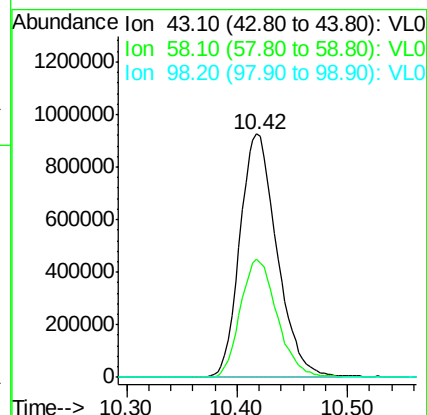
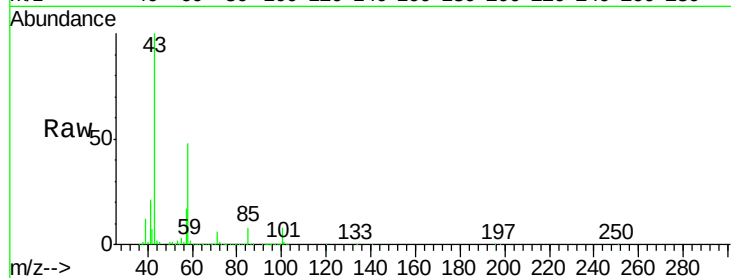
43 100

58 48.1 38.4 57.6

98 0.3 0.2 0.4

Manual Integrations
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#52

Tetrachloroethene

Concen: 9.242 ppbv

RT: 11.52 min Scan# 3246

Delta R.T. -0.00 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

Tgt Ion: 164 Resp: 930277

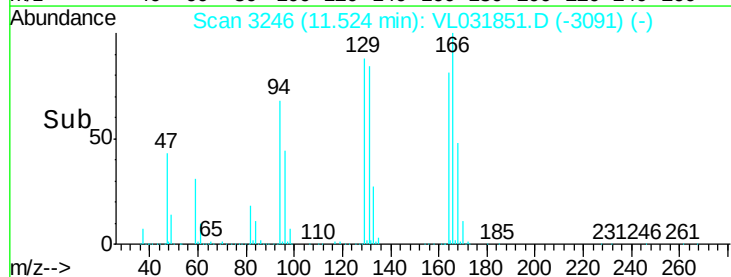
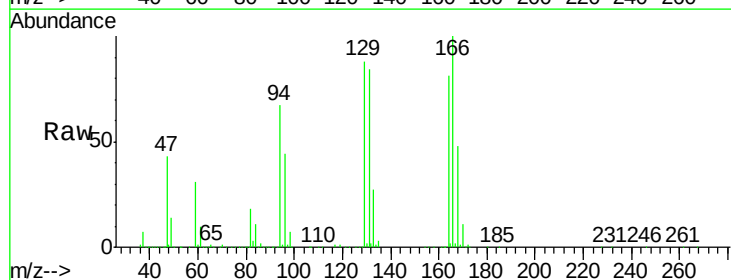
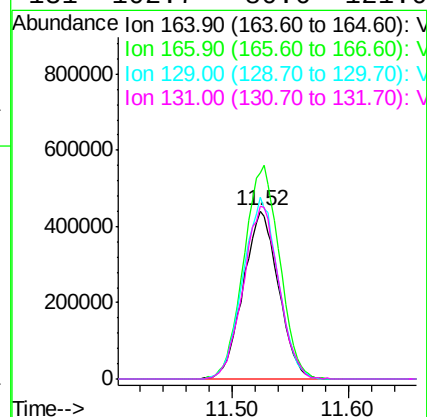
Ion Ratio Lower Upper

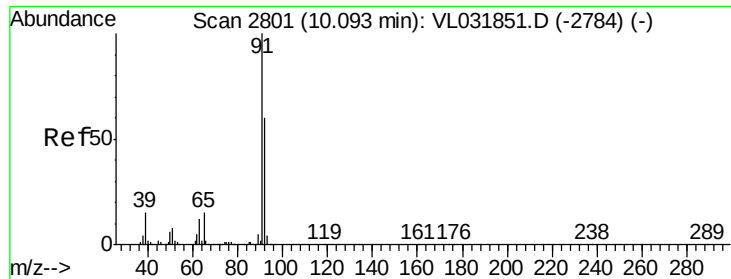
164 100

166 122.8 103.3 154.9

129 108.1 84.2 126.4

131 102.7 80.6 121.0





#53

Toluene

Concen: 10.362 ppbv

RT: 10.09 min Scan# 2801

Delta R.T. 0.00 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 2987764

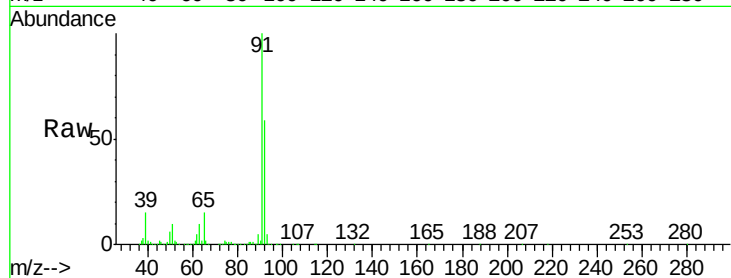
Ion Ratio Lower Upper

91 100

92 59.3 47.2 70.8

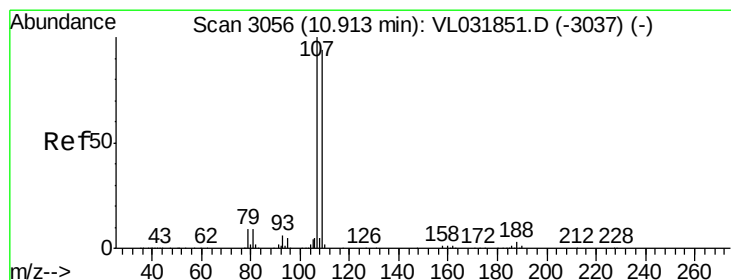
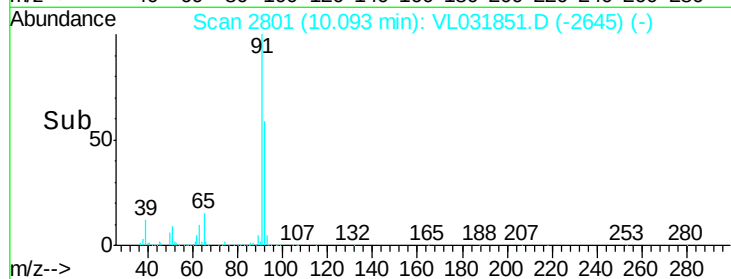
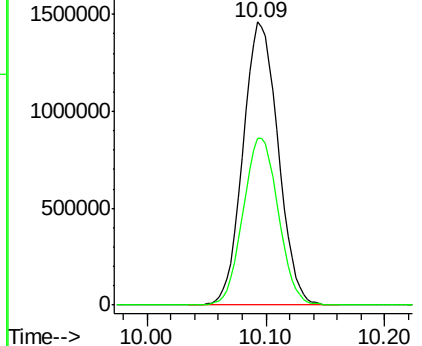
Manual Integrations
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 9.687 ppbv

RT: 10.91 min Scan# 3055

Delta R.T. -0.00 min

Lab File: VL031851.D

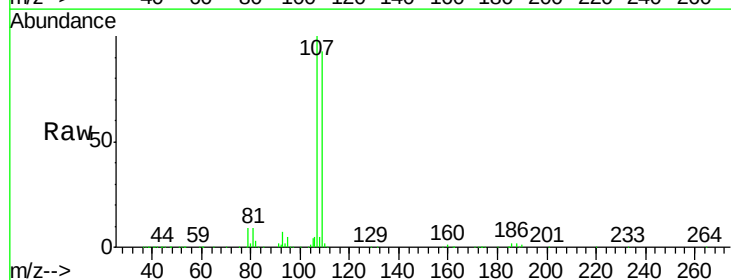
Acq: 12 Apr 2018 00:18

Tgt Ion:107 Resp: 1604136

Ion Ratio Lower Upper

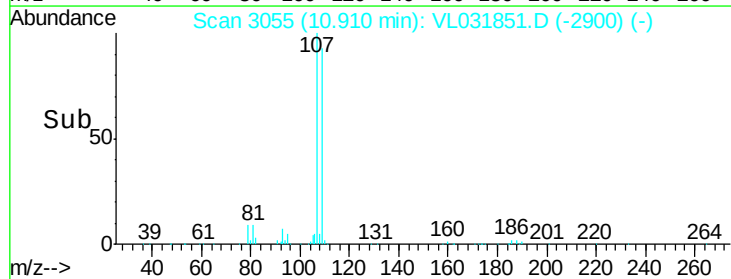
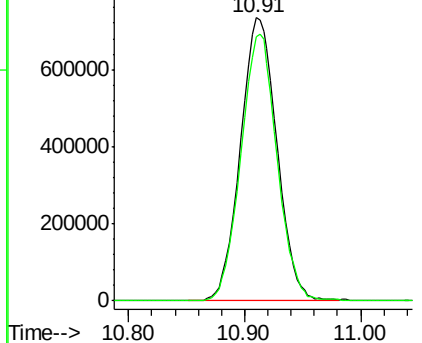
107 100

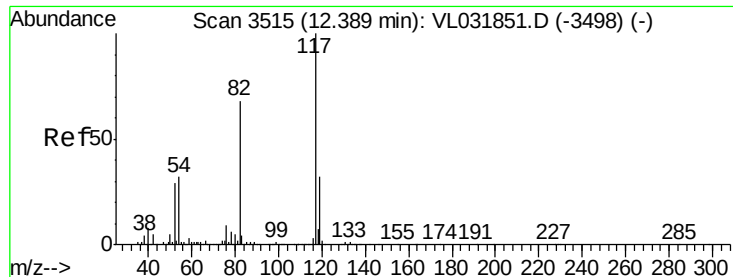
109 93.3 75.1 112.7



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: VL031851.D

Acq: 12 Apr 2018 00:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:117 Resp: 2897675

Ion Ratio Lower Upper

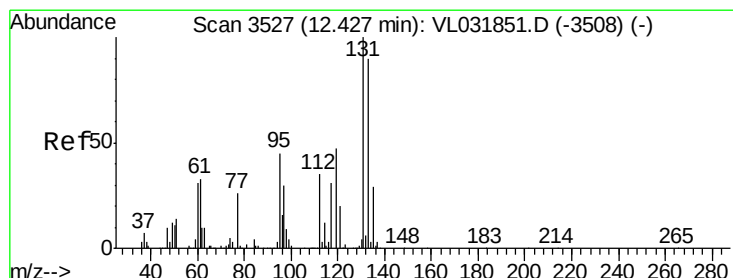
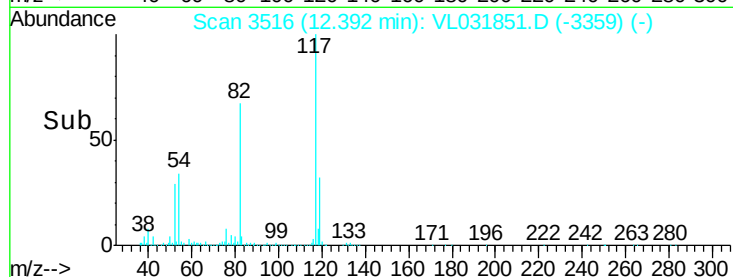
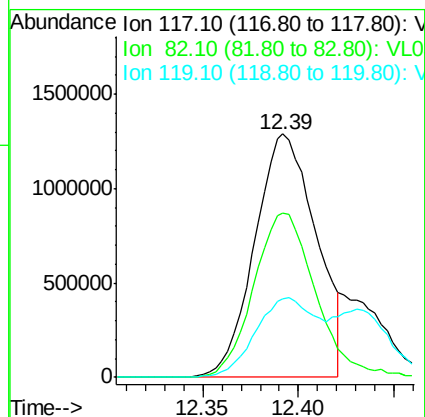
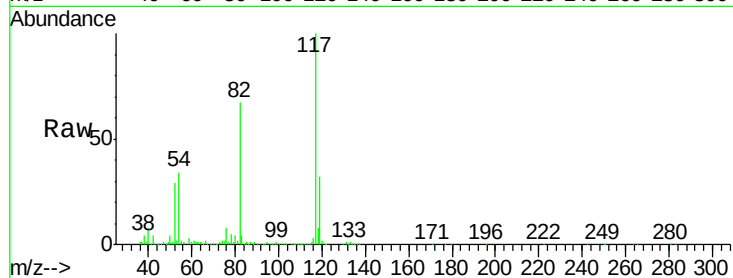
117 100

82 68.2 52.9 79.3

119 32.5 43.8 65.6#

Manual Integrations
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#56

1,1,1,2-Tetrachloroethane

Concen: 9.344 ppbv

RT: 12.43 min Scan# 3528

Delta R.T. 0.00 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

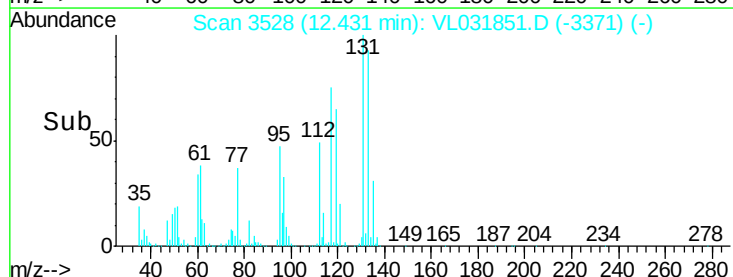
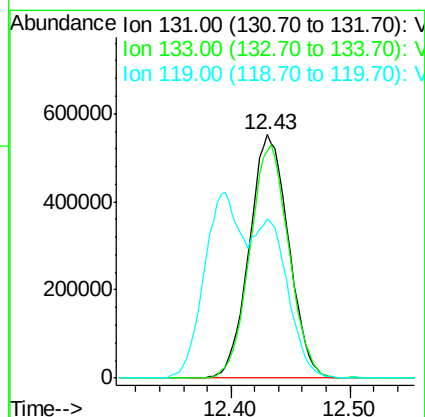
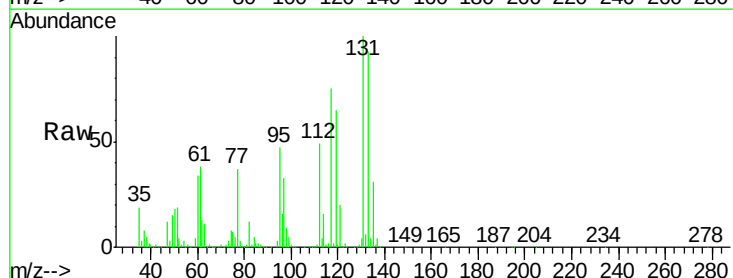
Tgt Ion:131 Resp: 1260564

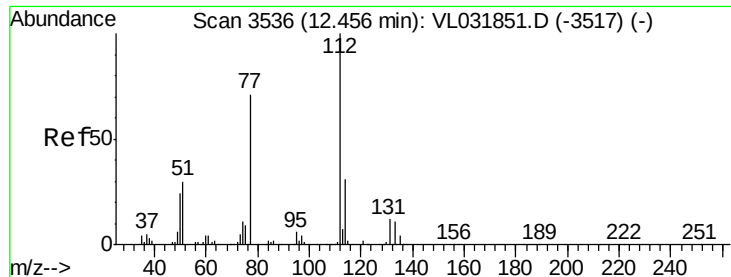
Ion Ratio Lower Upper

131 100

133 95.1 75.9 113.9

119 132.9 106.7 160.1





#57

Chlorobenzene

Concen: 9.329 ppbv

RT: 12.46 min Scan# 3536

Delta R.T. 0.00 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:112 Resp: 2279895

Ion Ratio Lower Upper

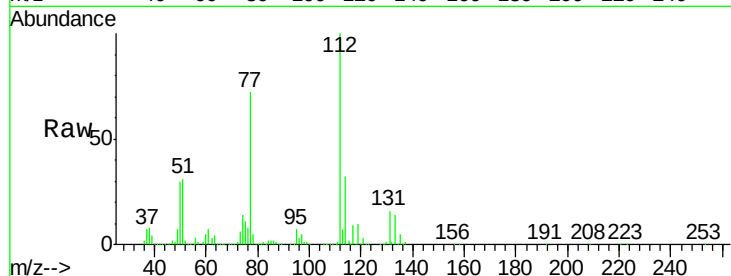
112 100

77 71.3 58.2 87.2

114 31.7 28.4 34.7

Manual Integrations
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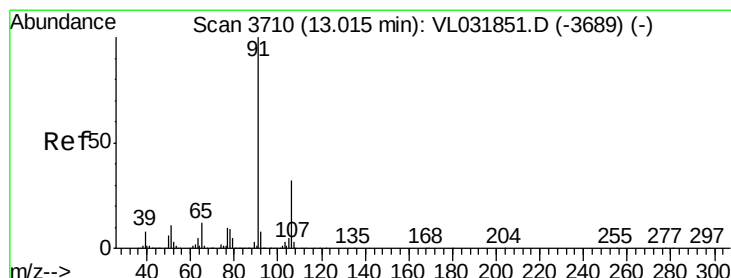
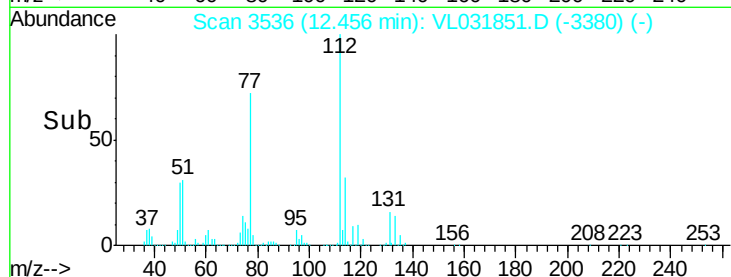
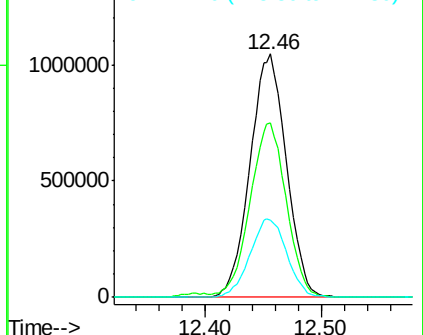
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.441 ppbv

RT: 13.02 min Scan# 3710

Delta R.T. 0.00 min

Lab File: VL031851.D

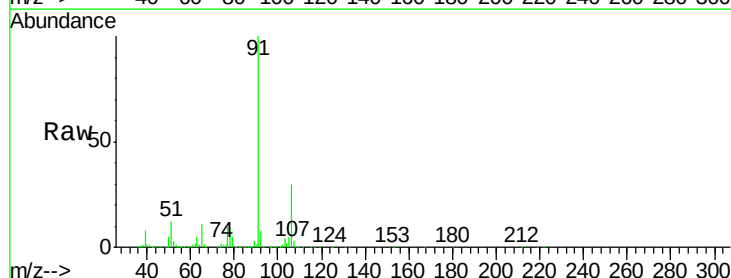
Acq: 12 Apr 2018 00:18

Tgt Ion: 91 Resp: 4175072

Ion Ratio Lower Upper

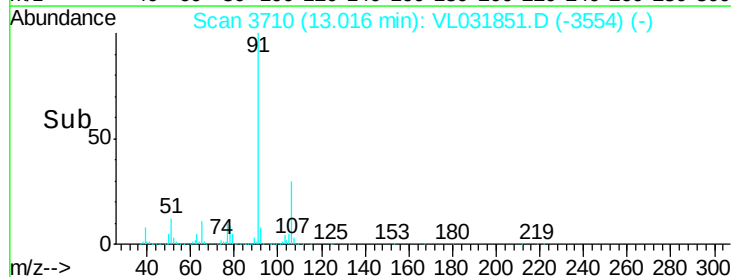
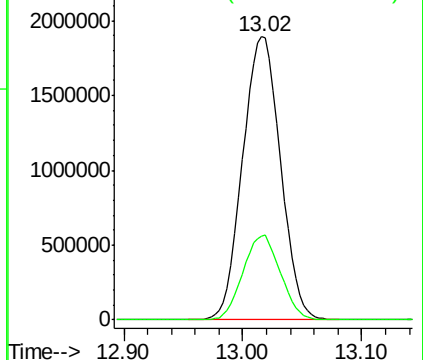
91 100

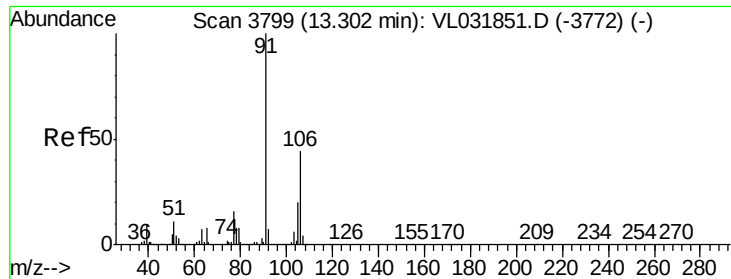
106 29.7 25.4 38.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





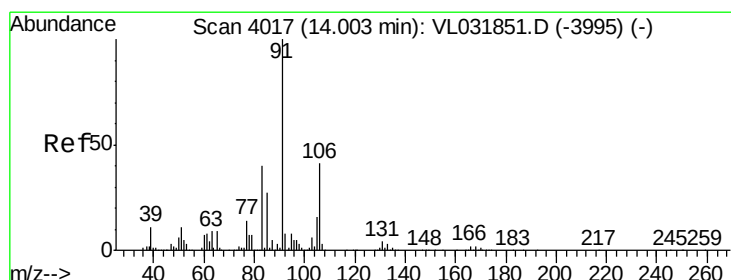
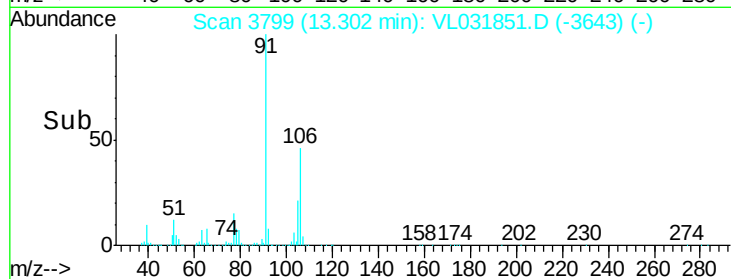
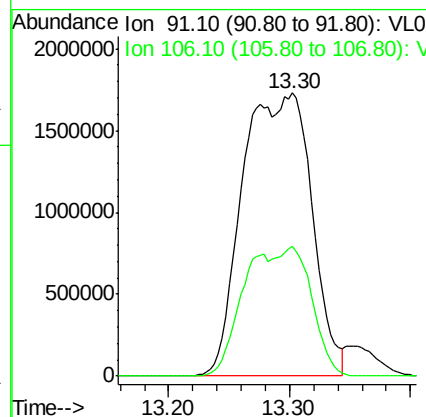
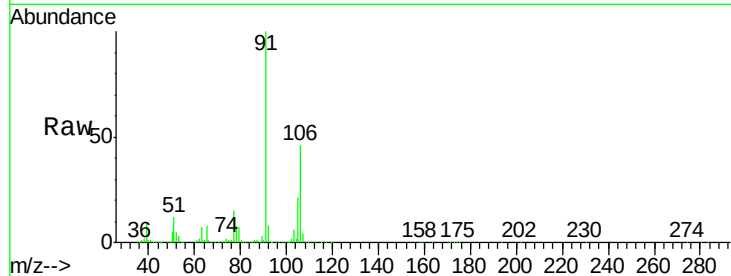
#59
m/p-Xylene
Concen: 19.727 ppbv m
RT: 13.30 min Scan# 3799
Delta R.T. 0.00 min
Lab File: VL031851.D
Acq: 12 Apr 2018 00:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 91 Resp: 6842768
Ion Ratio Lower Upper
91 100
106 44.4 0.0 0.0#

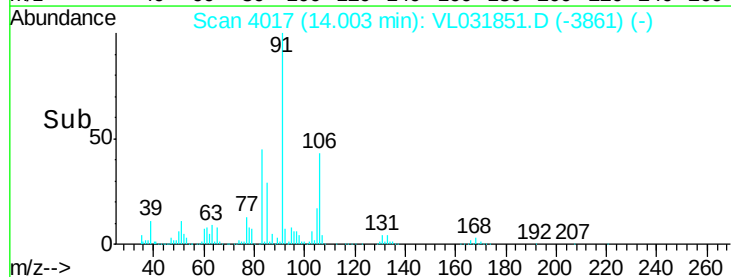
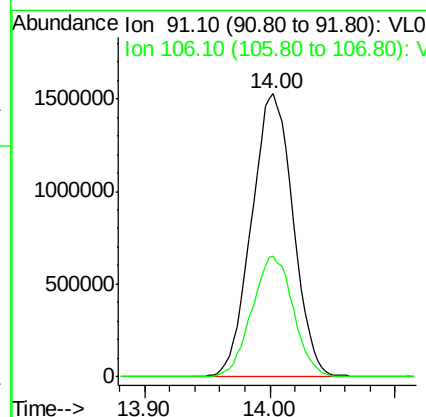
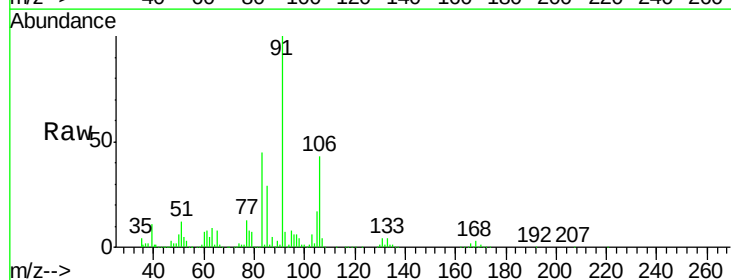
Manual Integrations
APPROVED

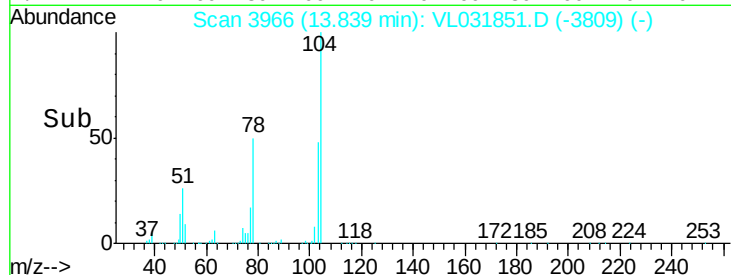
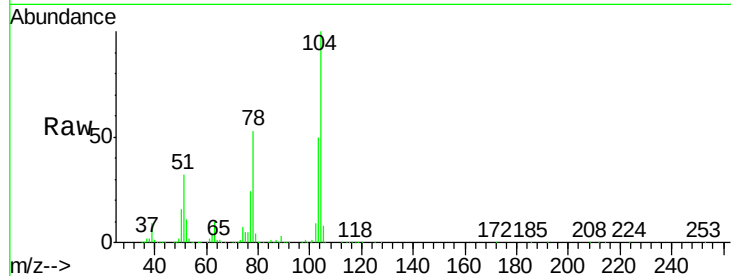
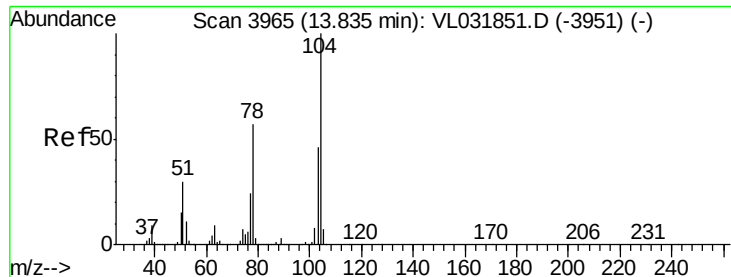
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#60
o-Xylene
Concen: 10.170 ppbv
RT: 14.00 min Scan# 4017
Delta R.T. 0.00 min
Lab File: VL031851.D
Acq: 12 Apr 2018 00:18

Tgt Ion: 91 Resp: 3518685
Ion Ratio Lower Upper
91 100
106 42.6 21.0 63.0





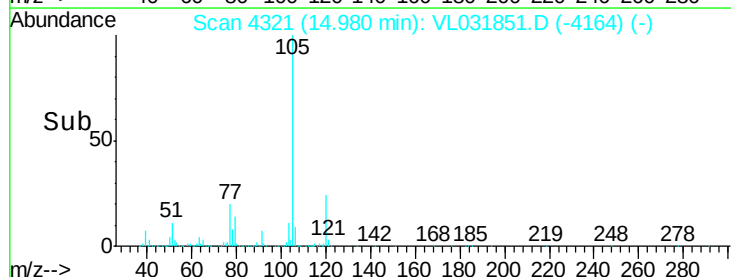
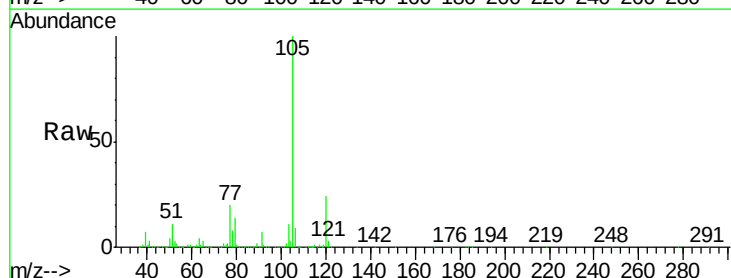
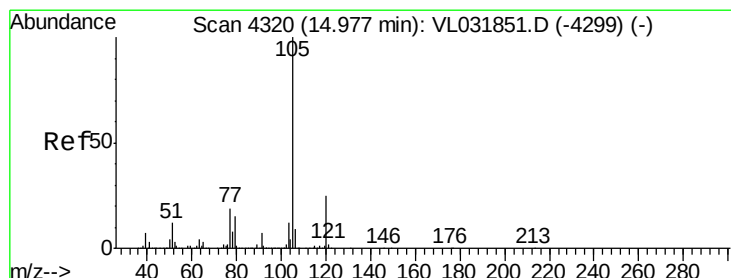
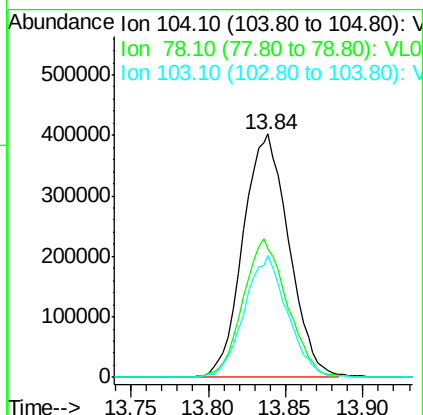
#61
Stvrene
Concen: 12.450 ppbv
RT: 13.84 min Scan# 3966
Delta R.T. 0.00 min
Lab File: VL031851.D
Acq: 12 Apr 2018 00:18

Tot Ion	Ratio	Lower	Upper
104	100		
78	55.5	44.6	66.8
103	47.4	37.9	56.9

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

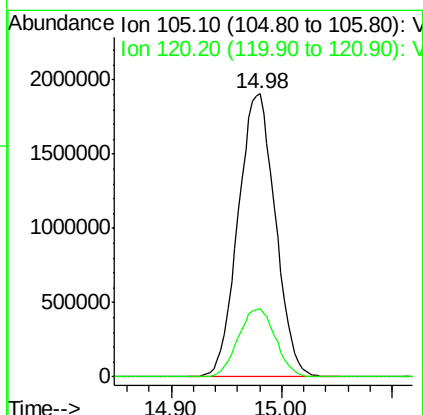
Manual Integrations
APPROVED

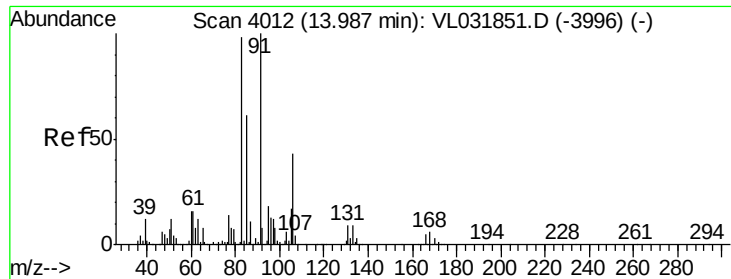
MMDadoda
4/15/2018 3:05:51 PM



#62
Isopropylbenzene
Concen: 10.058 ppbv
RT: 14.98 min Scan# 4321
Delta R.T. 0.00 min
Lab File: VL031851.D
Acq: 12 Apr 2018 00:18

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.3	19.8	29.6





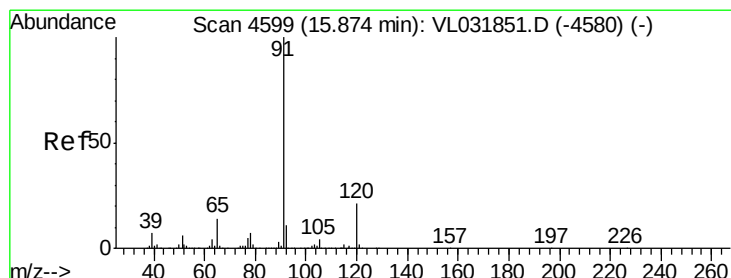
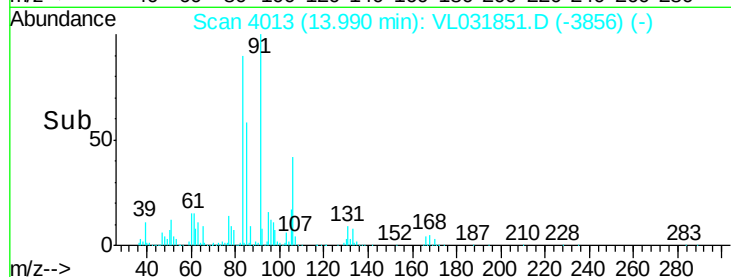
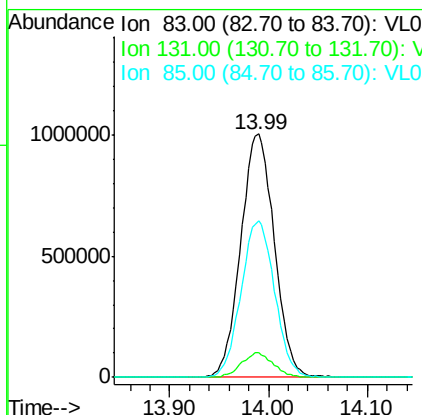
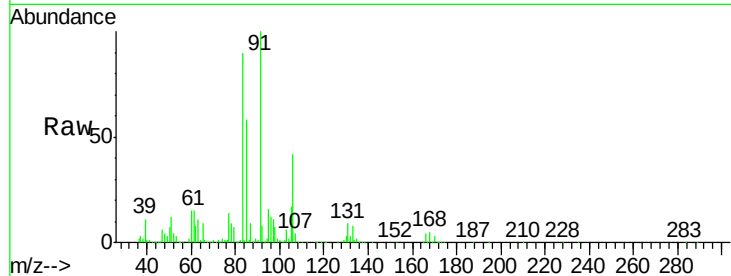
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.948 ppbv
 RT: 13.99 min Scan# 4013
 Delta R.T. 0.00 min
 Lab File: VL031851.D
 Acq: 12 Apr 2018 00:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 83 Resp: 2365604
 Ion Ratio Lower Upper
 83 100
 131 9.7 4.8 14.4
 85 64.4 32.8 98.4

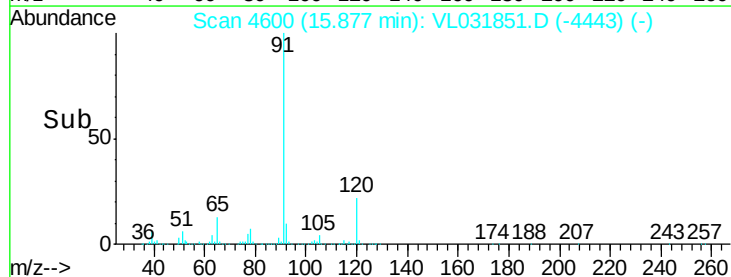
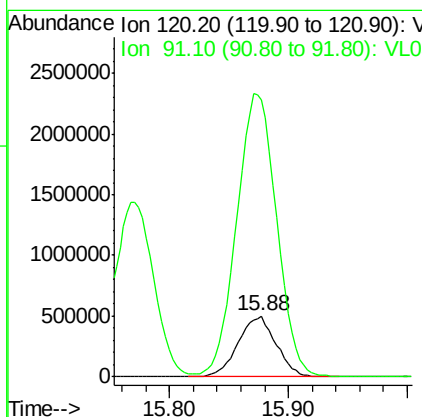
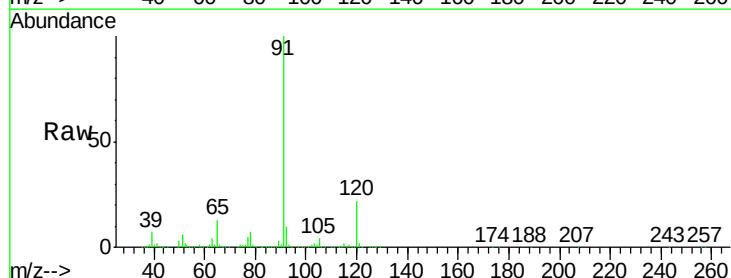
Manual Integrations
 APPROVED

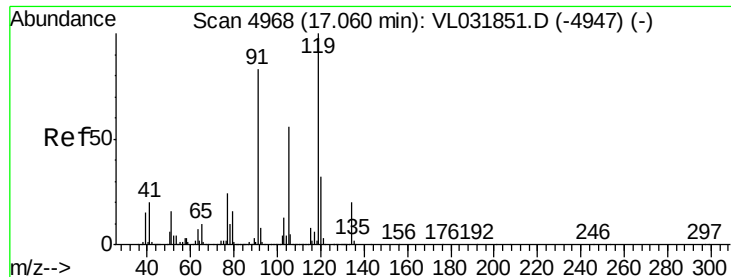
MMDadoda
 4/15/2018 3:05:51 PM



#64
 n-propylbenzene
 Concen: 10.292 ppbv
 RT: 15.88 min Scan# 4600
 Delta R.T. 0.00 min
 Lab File: VL031851.D
 Acq: 12 Apr 2018 00:18

Tgt Ion:120 Resp: 1103676
 Ion Ratio Lower Upper
 120 100
 91 492.1 397.3 595.9





#65

tert-Butylbenzene

Concen: 10.143 ppbv

RT: 17.06 min Scan# 4968

Delta R.T. 0.00 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:119 Resp: 3828841

Ion Ratio Lower Upper

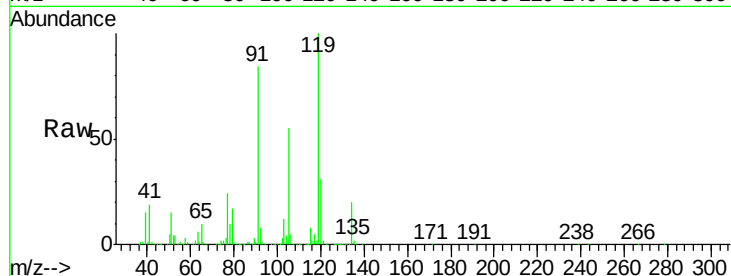
119 100

91 86.7 69.0 103.6

134 19.3 15.4 23.0

Manual Integrations
APPROVED

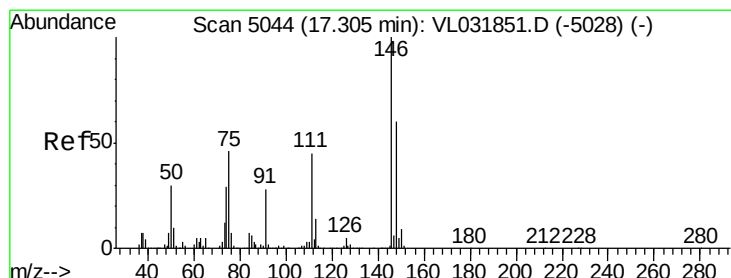
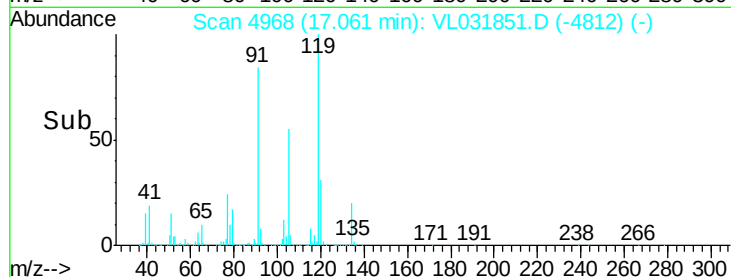
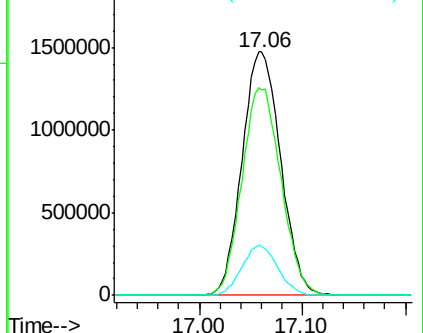
MMDadoda
4/15/2018 3:05:51 PM



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: 11.092 ppbv

RT: 17.31 min Scan# 5045

Delta R.T. 0.00 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

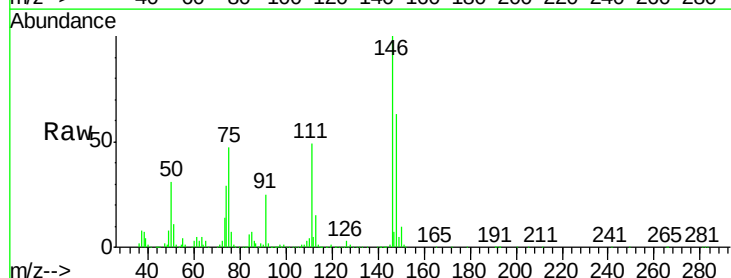
Tgt Ion: 91 Resp: 376721

Ion Ratio Lower Upper

91 100

126 15.8 12.7 19.1

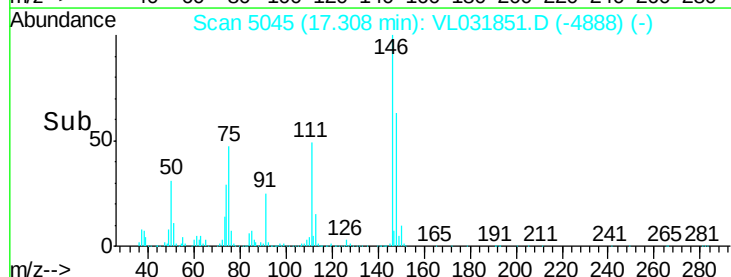
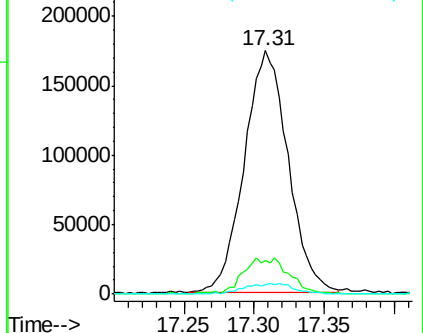
128 5.0 4.1 6.1

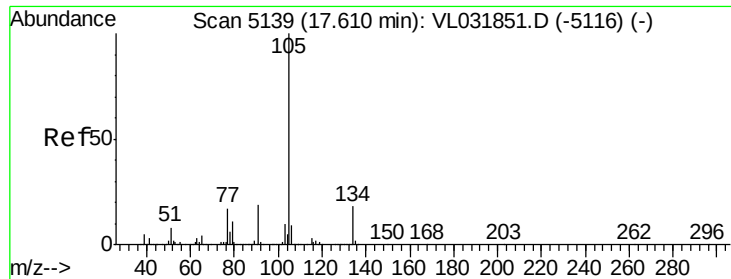


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 10.041 ppbv

RT: 17.61 min Scan# 5139

Delta R.T. 0.00 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 105 Resp: 5443399

Ion Ratio Lower Upper

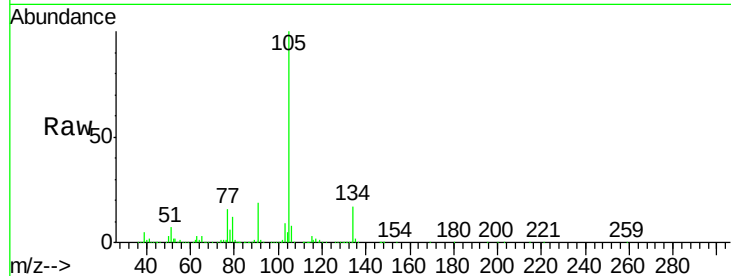
105 100

134 17.7 14.0 21.0

Manual Integrations
APPROVED

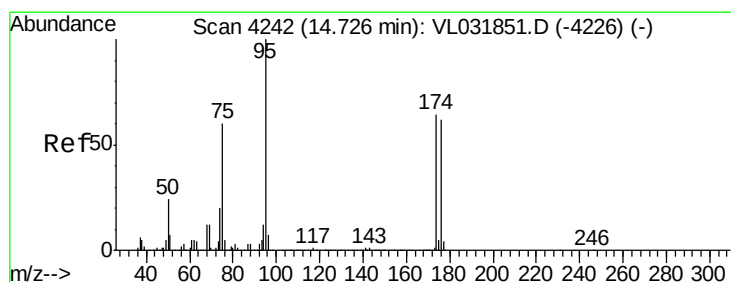
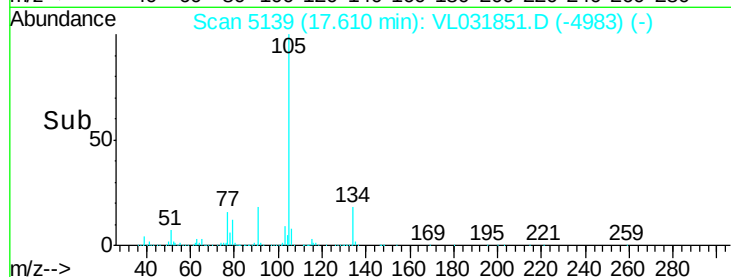
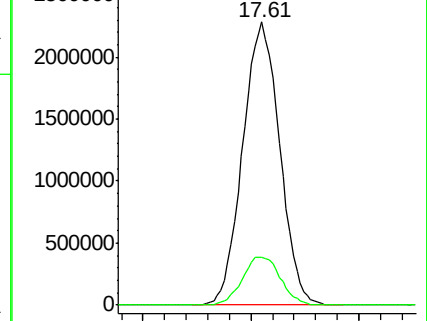
MMDadoda

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.306 ppbv

RT: 14.73 min Scan# 4243

Delta R.T. 0.00 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

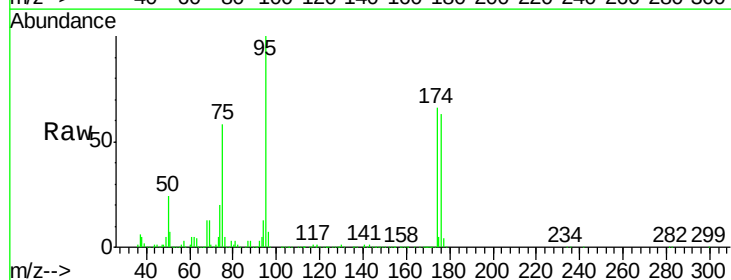
Tgt Ion: 95 Resp: 2378457

Ion Ratio Lower Upper

95 100

174 65.4 52.2 78.2

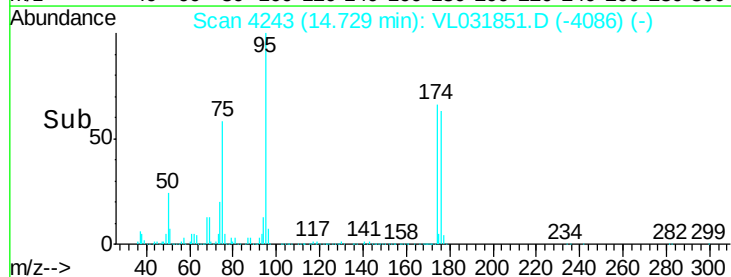
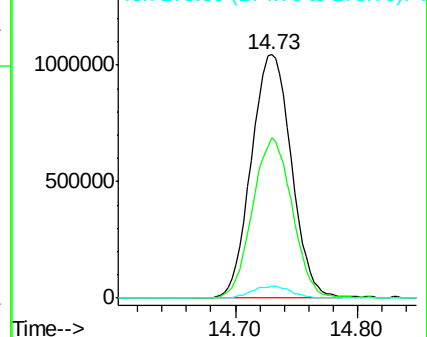
175 4.9 3.8 5.8

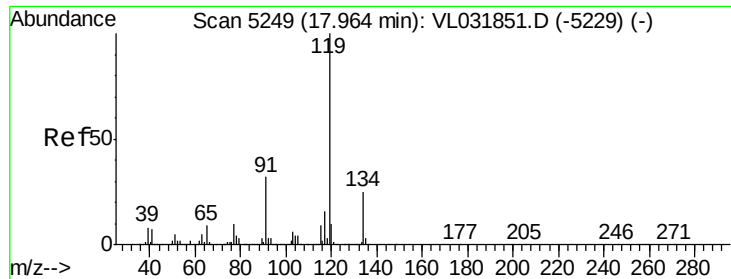


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





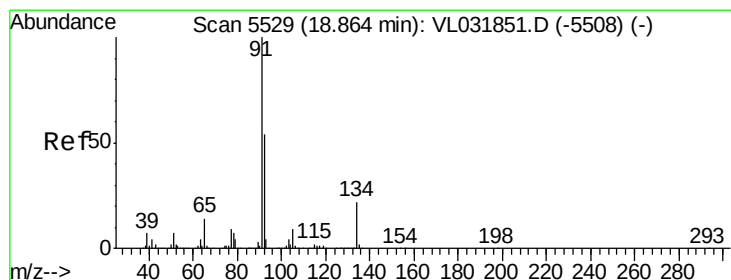
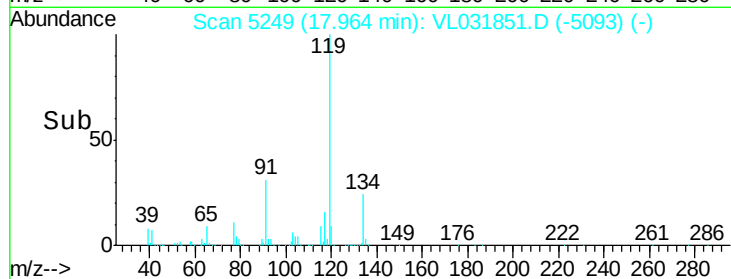
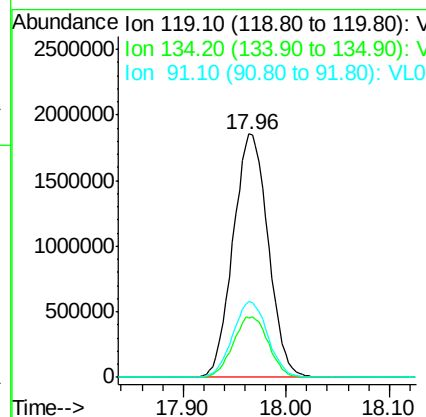
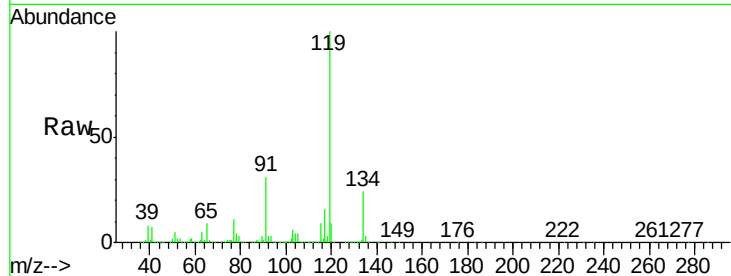
#69
 p-Isopropyltoluene
 Concen: 10.488 ppbv
 RT: 17.96 min Scan# 5249
 Delta R.T. 0.00 min
 Lab File: VL031851.D
 Acq: 12 Apr 2018 00:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.0	19.7	29.5
91	31.1	24.6	37.0

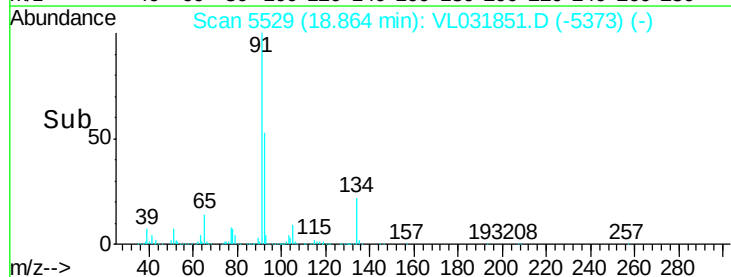
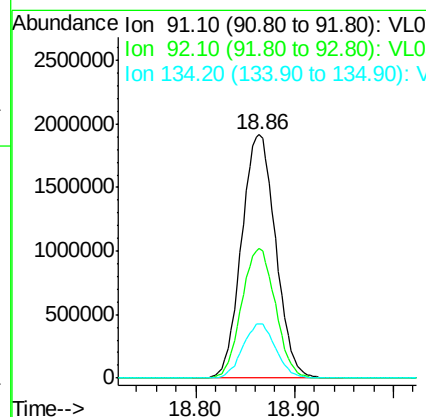
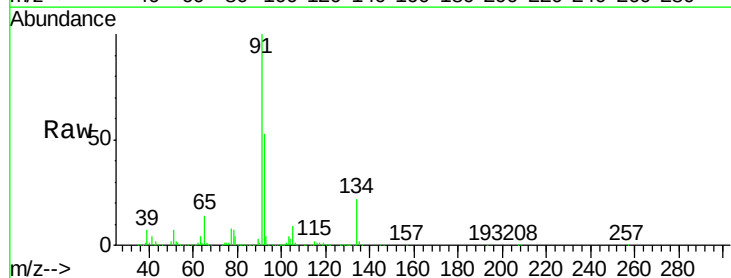
Manual Integrations
 APPROVED

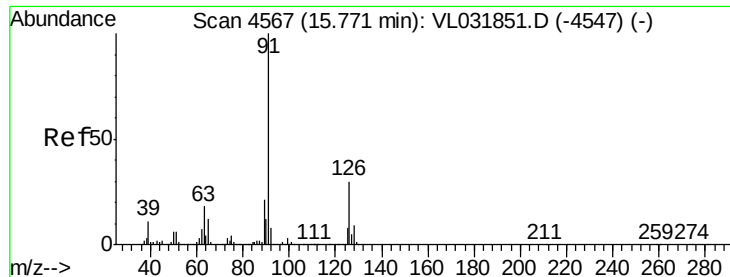
MMDadoda
 4/15/2018 3:05:51 PM



#70
 n-Butylbenzene
 Concen: 10.594 ppbv
 RT: 18.86 min Scan# 5529
 Delta R.T. 0.00 min
 Lab File: VL031851.D
 Acq: 12 Apr 2018 00:18

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.8	42.2	63.4
134	21.7	17.2	25.8





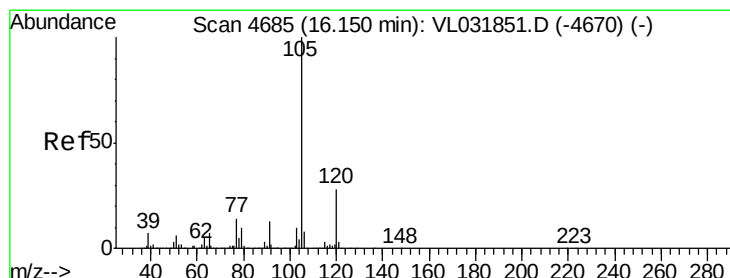
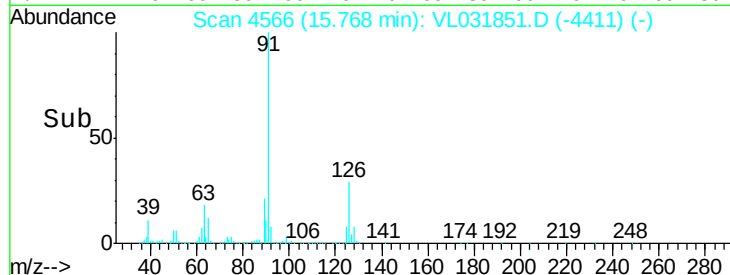
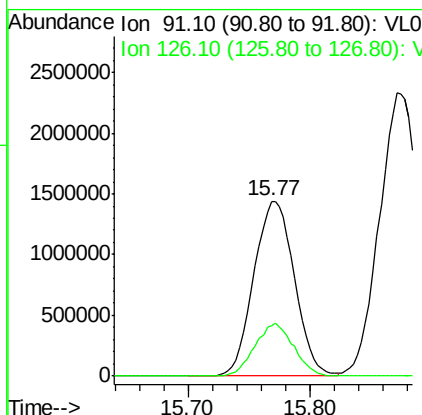
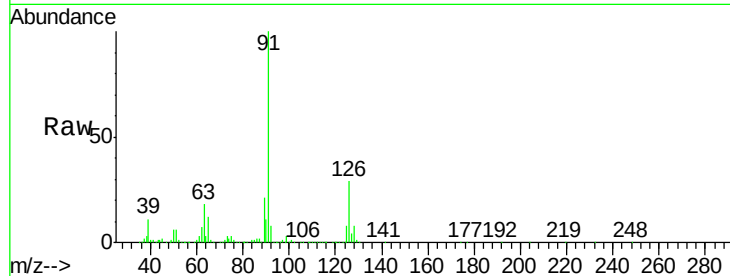
#71
 2-Chlorotoluene
 Concen: 10.430 ppbv
 RT: 15.77 min Scan# 4566
 Delta R.T. -0.00 min
 Lab File: VL031851.D
 Acq: 12 Apr 2018 00:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 91 Resp: 3331540
 Ion Ratio Lower Upper
 91 100
 126 28.9 11.5 45.9

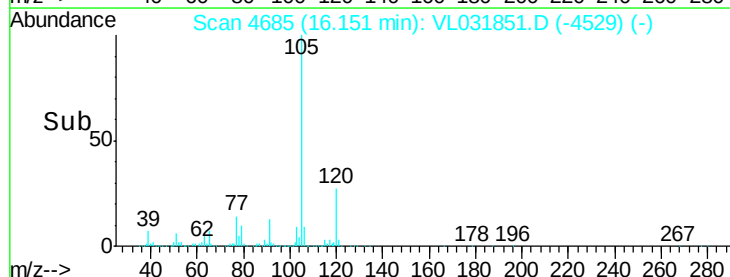
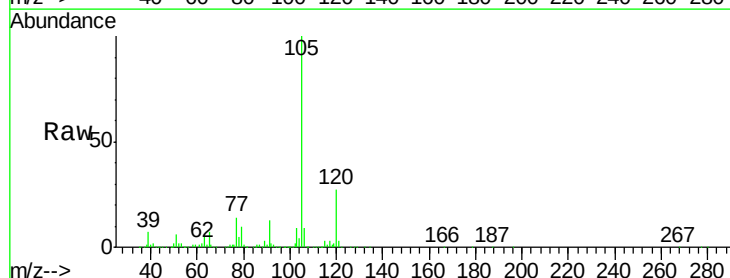
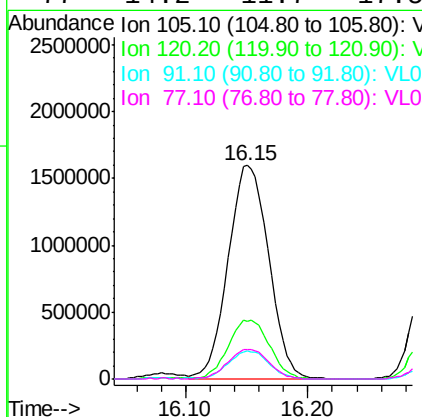
Manual Integrations
 APPROVED

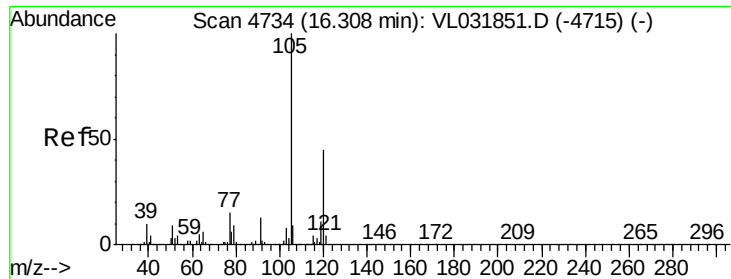
MMDadoda
 4/15/2018 3:05:51 PM



#72
 4-Ethyltoluene
 Concen: 10.512 ppbv
 RT: 16.15 min Scan# 4685
 Delta R.T. 0.00 min
 Lab File: VL031851.D
 Acq: 12 Apr 2018 00:18

Tgt Ion:105 Resp: 3684473
 Ion Ratio Lower Upper
 105 100
 120 28.4 22.6 33.8
 91 13.3 10.7 16.1
 77 14.2 11.7 17.5





#73

1,3,5-Trimethylbenzene

Concen: 10.502 ppbv

RT: 16.31 min Scan# 4734

Delta R.T. 0.00 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:105 Resp: 3350878

Ion Ratio Lower Upper

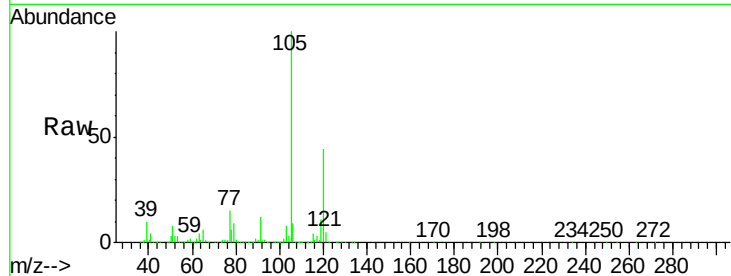
105 100

120 44.1 36.3 54.5

Manual Integrations
APPROVED

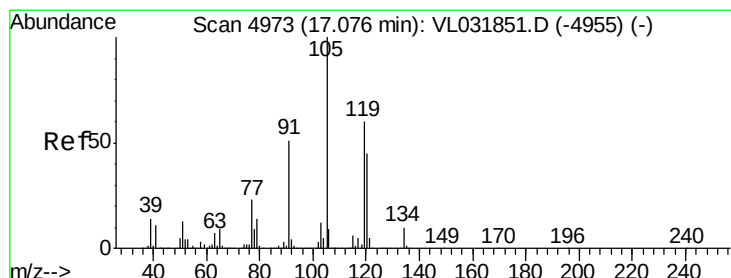
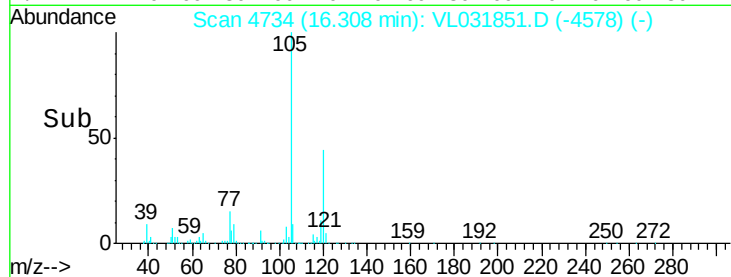
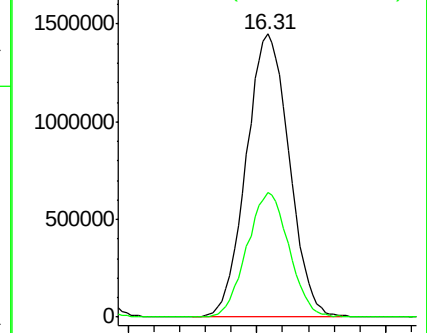
MMDadoda

4/15/2018 3:05:51 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 9.804 ppbv

RT: 17.08 min Scan# 4973

Delta R.T. 0.00 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

Tgt Ion:105 Resp: 3495202

Ion Ratio Lower Upper

105 100

120 46.2 36.2 54.4

91 53.7 43.3 64.9

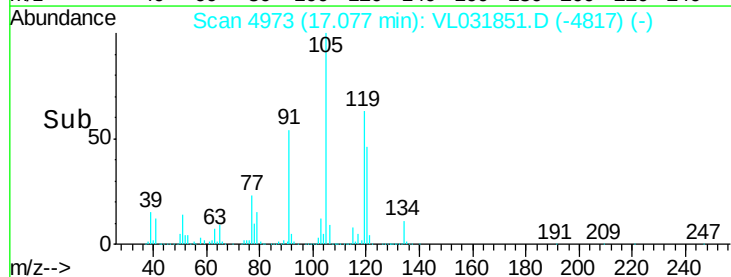
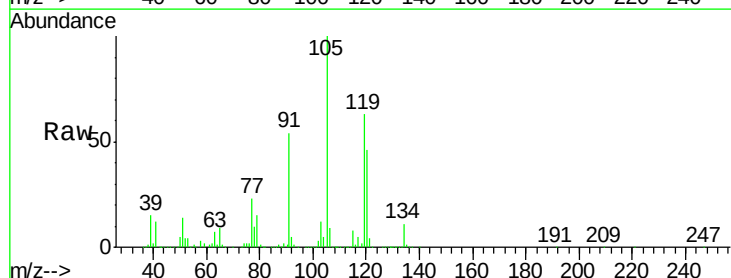
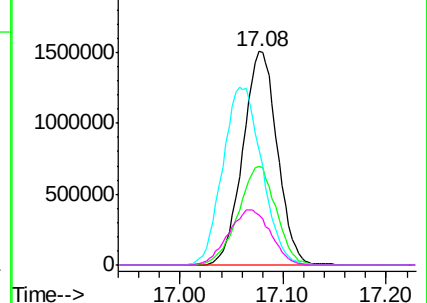
77 23.4 18.8 28.2

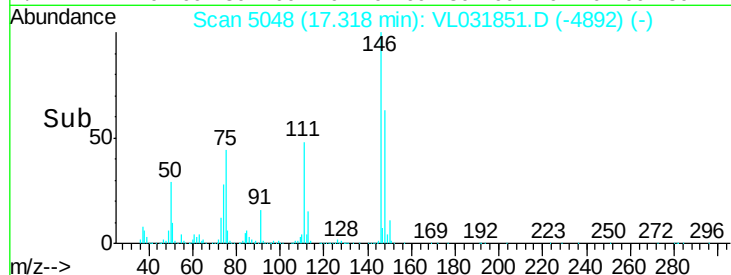
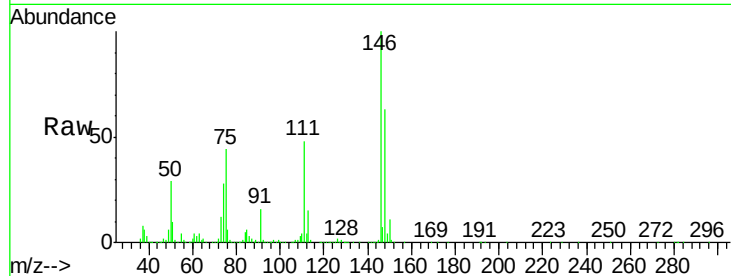
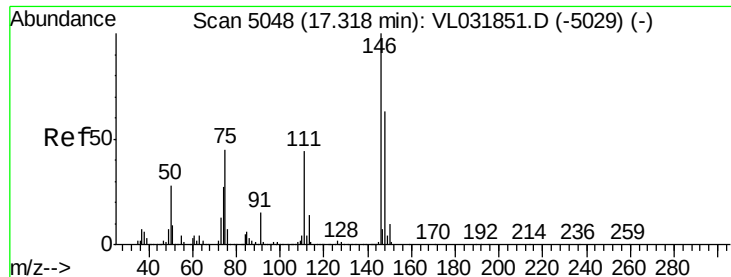
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





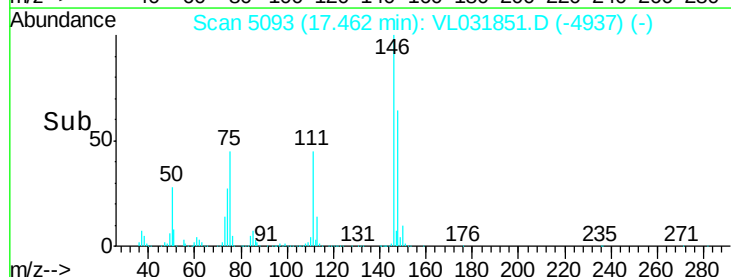
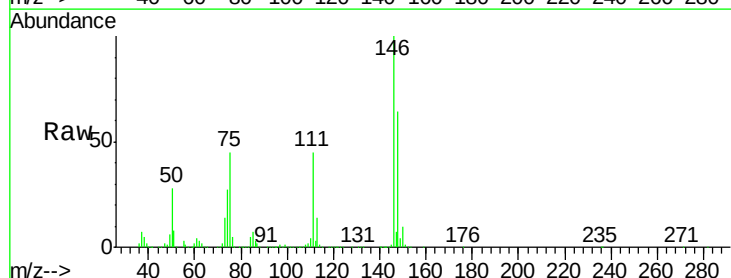
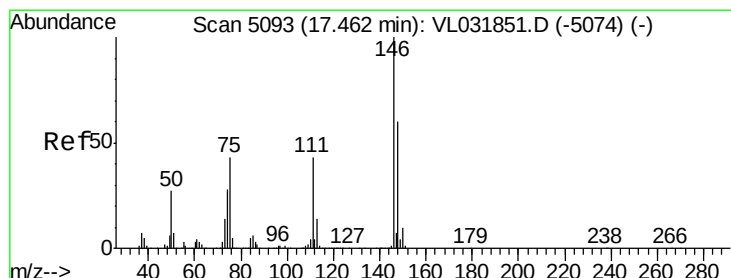
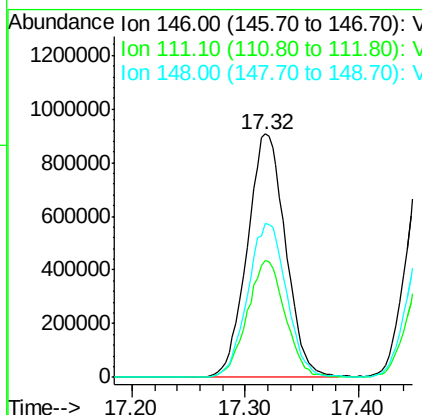
#75
1,3-Dichlorobenzene
Concen: 9.803 ppbv
RT: 17.32 min Scan# 5048
Delta R.T. 0.00 min
Lab File: VL031851.D
Acq: 12 Apr 2018 00:18

Tot Ion:146 Resp: 2137880
Ion Ratio Lower Upper
146 100
111 47.6 23.4 70.0
148 64.1 32.1 96.5

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

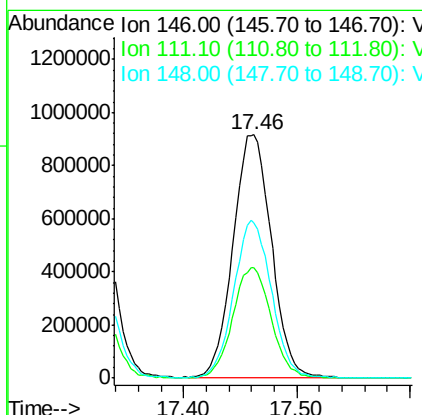
Manual Integrations
APPROVED

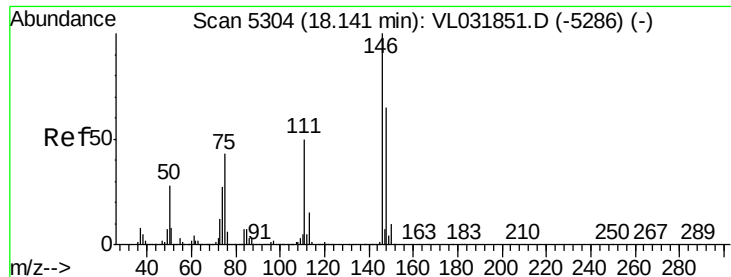
MMDadoda
4/15/2018 3:05:51 PM



#76
1,4-Dichlorobenzene
Concen: 10.169 ppbv
RT: 17.46 min Scan# 5093
Delta R.T. 0.00 min
Lab File: VL031851.D
Acq: 12 Apr 2018 00:18

Tgt Ion:146 Resp: 2149684
Ion Ratio Lower Upper
146 100
111 45.8 22.9 68.7
148 64.0 32.1 96.5





#77

1,2-Dichlorobenzene

Concen: 10.014 ppbv

RT: 18.14 min Scan# 5305

Delta R.T. 0.00 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:146 Resp: 2132108

Ion Ratio Lower Upper

146 100

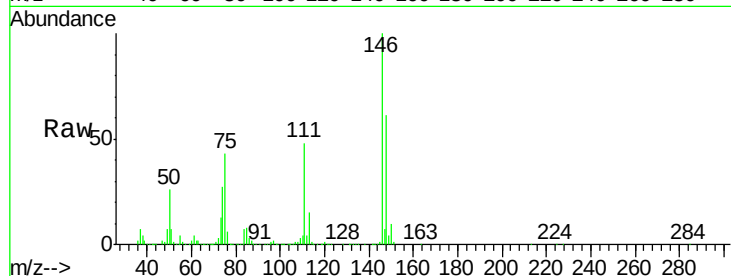
111 48.5 24.3 72.8

148 63.5 31.7 95.1

Manual Integrations
APPROVED

MMDadoda

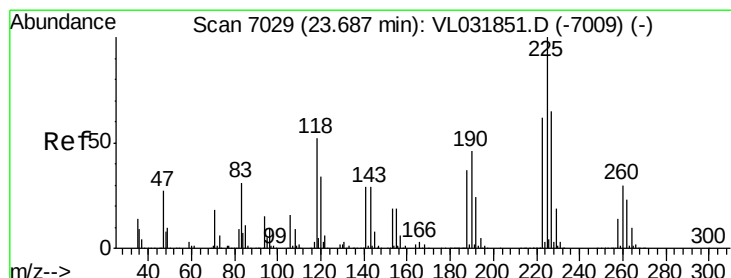
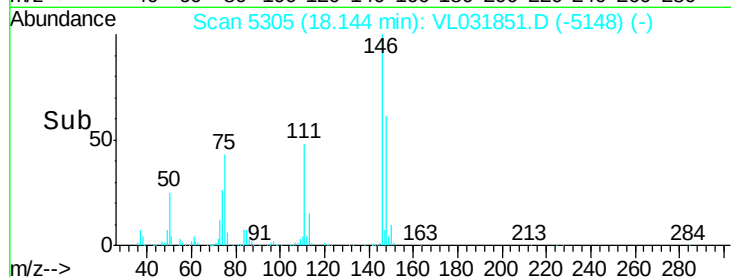
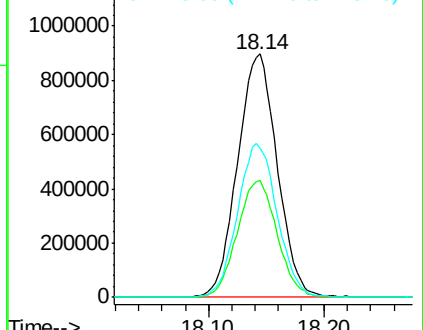
4/15/2018 3:05:51 PM



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: 8.120 ppbv

RT: 23.68 min Scan# 7028

Delta R.T. -0.00 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

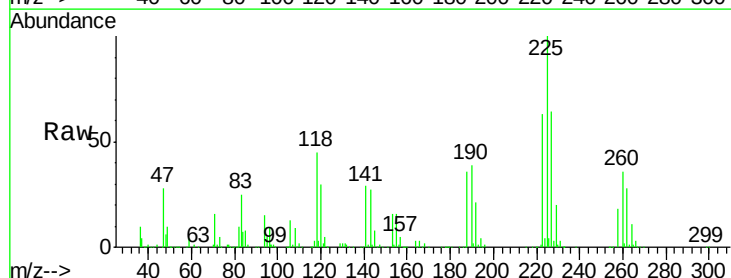
Tgt Ion:225 Resp: 732431

Ion Ratio Lower Upper

225 100

223 63.3 50.3 75.5

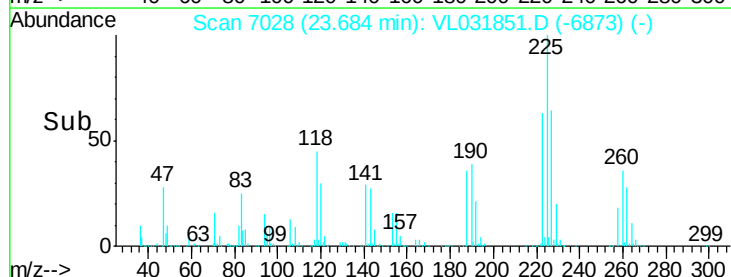
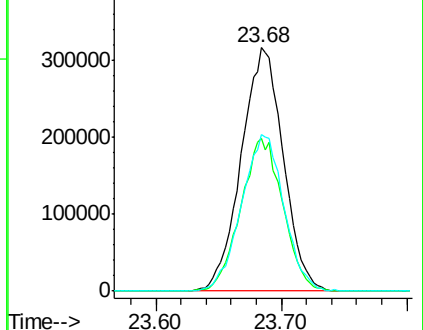
227 65.3 50.8 76.2

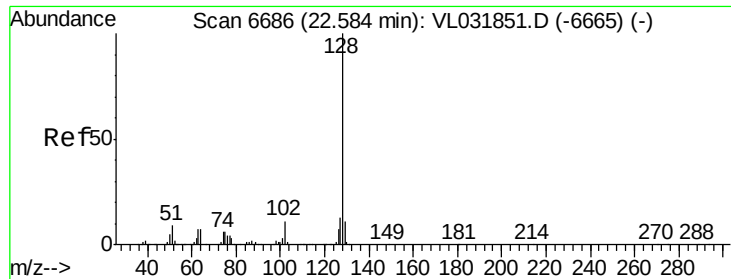


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 12.326 ppbv

RT: 22.59 min Scan# 6688

Delta R.T. 0.01 min

Lab File: VL031851.D

Acq: 12 Apr 2018 00:18

Instrument :

MSVOA_L

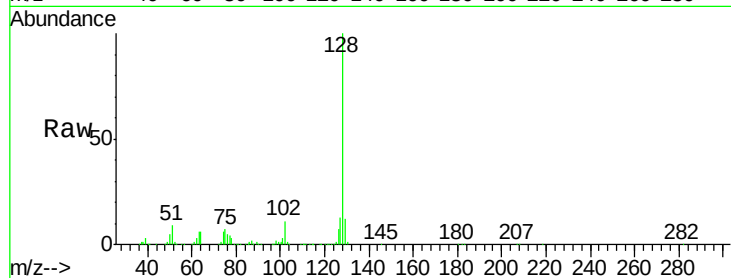
ClientSampleId :

VSTDICCC010

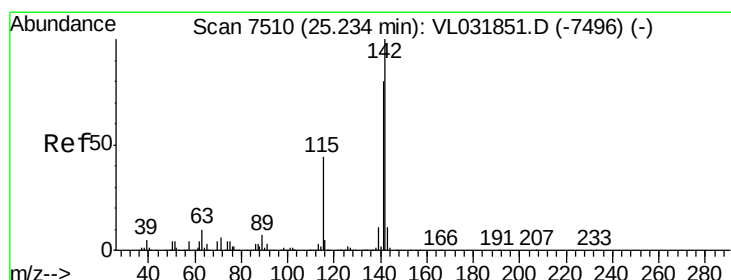
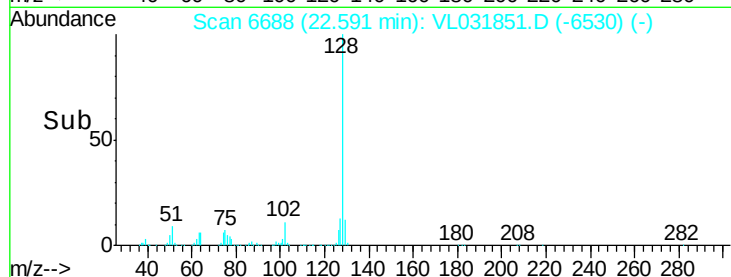
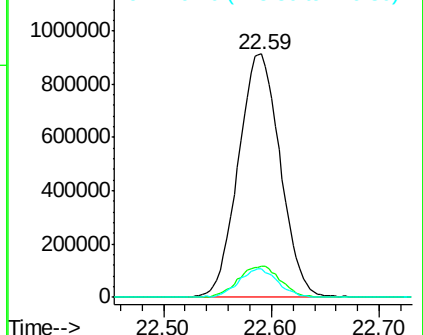
Tot Ion:	128	Resp:	2460517
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.4	15.6
129	11.8	9.1	13.7

Manual Integrations
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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: 17.962 ppbv

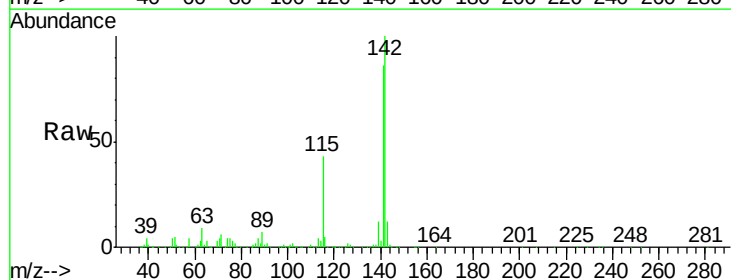
RT: 25.23 min Scan# 7509

Delta R.T. -0.00 min

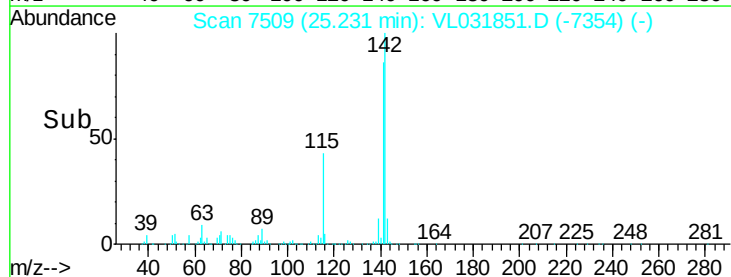
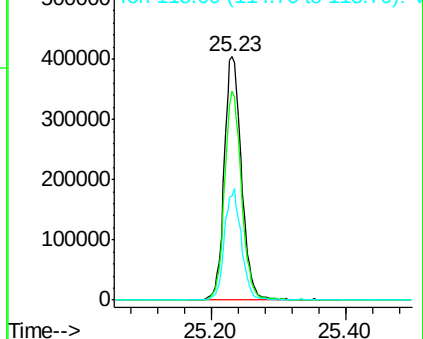
Lab File: VL031851.D

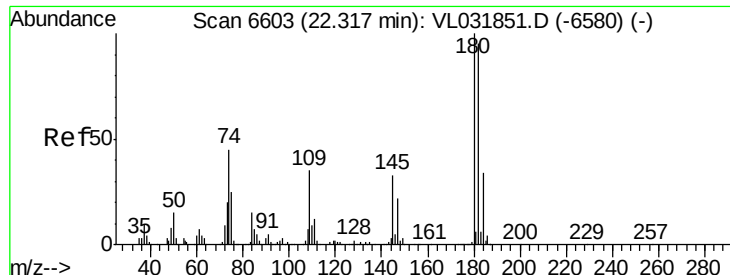
Acq: 12 Apr 2018 00:18

Tgt Ion:	142	Resp:	727454
Ion	Ratio	Lower	Upper
142	100		
141	83.7	65.8	98.8
115	44.1	35.8	53.6



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





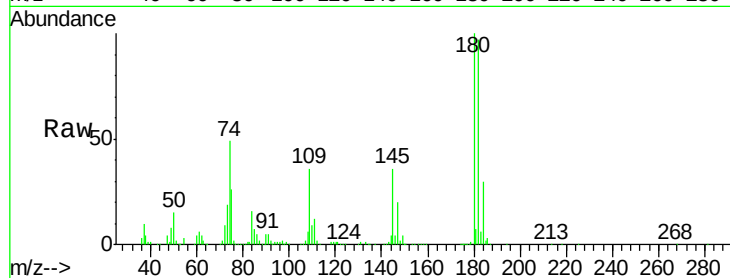
#81
 1,2,4-Trichlorobenzene
 Concen: 11.514 ppbv
 RT: 22.31 min Scan# 6601
 Delta R.T. -0.01 min
 Lab File: VL031851.D
 Acq: 12 Apr 2018 00:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.6	114.8
184	30.2	25.0	37.4

Manual Integrations
 APPROVED

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 4/15/2018 3:05:51 PM



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

