

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101818\
 Data File : VL032684.D
 Acq On : 19 Oct 2018 14:55
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 10/24/2018 12:07:02 PM

Quant Time: Oct 20 00:02:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct 19 2018
 QLast Update : Fri Oct 19 01:25:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1511178	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	3824524	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	3842110m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.60	95	2893296	10.11	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1098637	7.136	ppbv	98
3) Chlorodifluoromethane	3.02	51	1094344	9.260	ppbv	99
4) Chloromethane	3.18	50	633847	9.597	ppbv	97
5) Vinyl Chloride	3.30	62	634228	8.866	ppbv	97
6) Bromomethane	3.53	94	390749	8.761	ppbv	93
7) Chloroethane	3.61	64	233214	8.853	ppbv	96
8) Dichlorotetrafluoroethane	3.23	85	1464804	9.026	ppbv	92
9) Propene	3.05	41	490105	10.077	ppbv	99
10) Heptane	8.26	43	1979941	10.564	ppbv	99
11) Trichlorofluoromethane	4.02	101	1615268	8.032	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.57	101	1590327	9.509	ppbv	91
13) Ethanol	3.66	45	119905	8.626	ppbv	98
14) Bromoethene	3.80	108	518166	9.167	ppbv	100
15) Acetone	3.91	43	1102447	7.900	ppbv	100
16) 1,3-Butadiene	3.37	39	520681	10.143	ppbv	82
17) tert-Butyl alcohol	4.37	59	487547	11.879	ppbv #	100
18) 1,1-Dichloroethene	4.36	96	747613	10.175	ppbv	98
19) Isopropyl Alcohol	4.04	45	862990	8.684	ppbv #	97
20) Methylene Chloride	4.42	84	635590	8.973	ppbv	97
21) Allyl Chloride	4.49	41	1246510	10.880	ppbv	100
22) trans-1,2-Dichloroethene	4.98	96	756674	10.040	ppbv	90
23) Vinyl Acetate	5.17	43	2595247	10.495	ppbv	100
24) 1,1-Dichloroethane	5.11	63	1886414	9.718	ppbv	98
25) Ethyl Acetate	5.79	43	3141581	9.781	ppbv	99
26) Hexane	5.80	57	1482304	9.753	ppbv	99
27) Carbon Disulfide	4.63	76	1880012	10.197	ppbv	99
28) Methyl tert-Butyl Ether	5.13	73	2313795	10.593	ppbv	100
29) Chloroform	5.87	83	2341366	9.645	ppbv	99
30) Cyclohexane	7.27	84	1298472	10.794	ppbv	98
31) cis-1,2-Dichloroethene	5.66	61	1510054	10.716	ppbv	97
32) 1,1,1-Trichloroethane	6.64	97	2317555	9.394	ppbv	99
34) 2-Butanone	5.35	43	2012642	9.817	ppbv	99
35) Carbon Tetrachloride	7.15	117	2500361	9.212	ppbv	97
36) Benzene	7.03	78	3054012	9.834	ppbv	99
37) 1,2-Dichloroethane	6.43	62	1776318	9.325	ppbv	98
38) Trichloroethene	7.98	130	1210394	10.528	ppbv	99
39) 1,2-Dichloropropane	7.76	63	1184850	9.880	ppbv	99
40) 1,4-Dioxane	7.98	88	401741	9.808	ppbv #	97
41) Tetrahydrofuran	6.17	42	1244591	10.894	ppbv	99
42) Bromodichloromethane	7.94	83	2565194	9.611	ppbv	98
43) Methyl Methacrylate	8.16	69	1245426	10.942	ppbv	97

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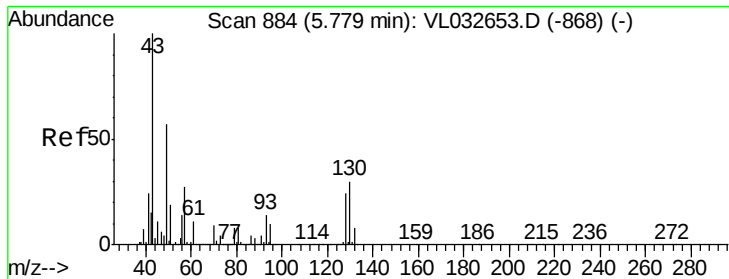
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct 19 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.01	57	5261143	9.923	ppbv	99
45) t-1,3-Dichloropropene	9.44	75	1823498	11.968	ppbv	99
46) cis-1,3-Dichloropropene	8.86	75	1927837	11.075	ppbv	99
47) 1,1,2-Trichloroethane	9.64	97	1400415	9.882	ppbv	98
48) Dibromochloromethane	10.47	129	2277012	9.640	ppbv	100
49) Bromoform	13.22	173	1838467	9.905	ppbv	99
50) 4-Methyl-2-Pentanone	8.89	43	3049992	10.042	ppbv	99
51) 2-Hexanone	10.29	43	2568254	11.375	ppbv	98
52) Tetrachloroethene	11.40	164	1165236	10.762	ppbv	96
53) Toluene	9.97	91	3918082	11.006	ppbv	100
54) 1,2-Dibromoethane	10.78	107	1892316	9.825	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.30	131	1567313	9.329	ppbv	97
57) Chlorobenzene	12.33	112	2728470	9.656	ppbv	94
58) Ethyl Benzene	12.89	91	4832454	10.827	ppbv	100
59) m/p-Xylene	13.17	91	8035566m	20.217	ppbv	
60) o-Xylene	13.87	91	3829821	9.989	ppbv	99
61) Styrene	13.71	104	2940207	11.437	ppbv	98
62) Isopropylbenzene	14.85	105	5329351	9.821	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.86	83	2600180	8.656	ppbv	99
64) n-propylbenzene	15.75	120	1370545	10.163	ppbv	95
65) tert-Butylbenzene	16.93	119	4539196	9.822	ppbv	96
66) Benzyl Chloride	17.18	91	2630780	11.025	ppbv	99
67) sec-Butylbenzene	17.48	105	6379192	9.706	ppbv	99
69) p-Isopropyltoluene	17.84	119	5170173	9.926	ppbv	98
70) n-Butylbenzene	18.74	91	5243103	9.778	ppbv	99
71) 2-Chlorotoluene	15.64	91	3984496	10.332	ppbv	98
72) 4-Ethyltoluene	16.02	105	4346974	10.645	ppbv	99
73) 1,3,5-Trimethylbenzene	16.18	105	4036683	10.149	ppbv	96
74) 1,2,4-Trimethylbenzene	16.95	105	4098848	9.650	ppbv	97
75) 1,3-Dichlorobenzene	17.19	146	2278038	9.326	ppbv	99
76) 1,4-Dichlorobenzene	17.33	146	2262083	10.036	ppbv	98
77) 1,2-Dichlorobenzene	18.01	146	2167814	9.368	ppbv	99
78) Hexachloro-1,3-Butadiene	23.57	225	1363917	12.474	ppbv	99
79) Naphthalene	22.43	128	3423573	12.968	ppbv	100
80) Naphthalene, 2-methyl-	25.13	142	1343430	20.926	ppbv	100
81) 1,2,4-Trichlorobenzene	22.16	180	1612339	11.792	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.00 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1511178

Ion Ratio Lower Upper

49 100

128 47.9 22.3 66.8

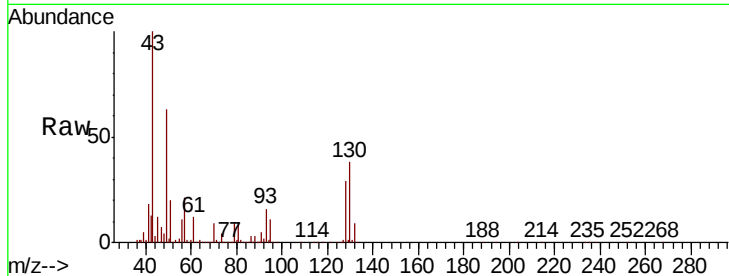
130 61.8 28.4 85.3

Manual Integrations

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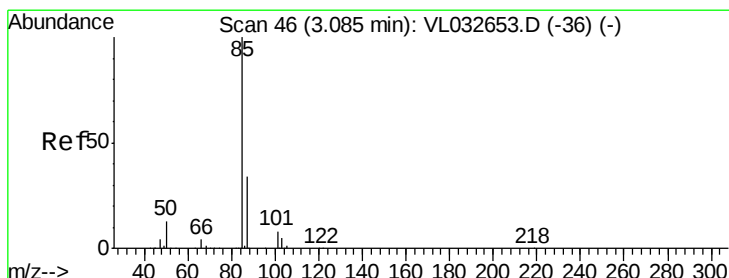
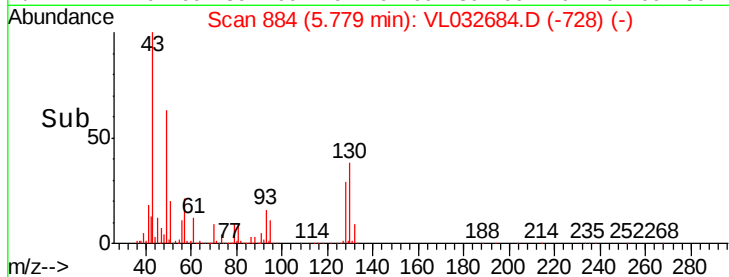
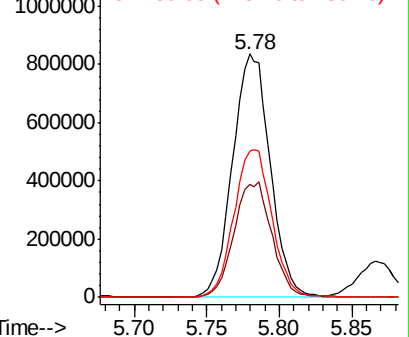
10/24/2018 12:07:02 PM



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: 7.136 ppbv

RT: 3.08 min Scan# 46

Delta R.T. 0.00 min

Lab File: VL032684.D

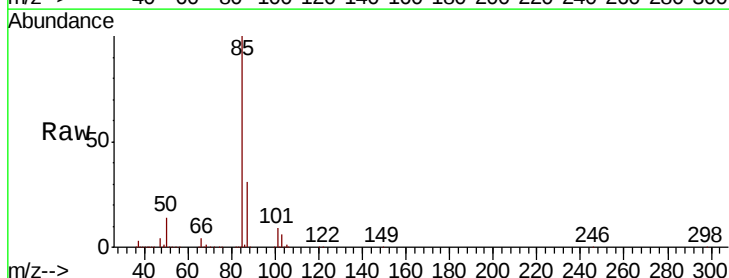
Acq: 19 Oct 2018 14:55

Tgt Ion: 85 Resp: 1098637

Ion Ratio Lower Upper

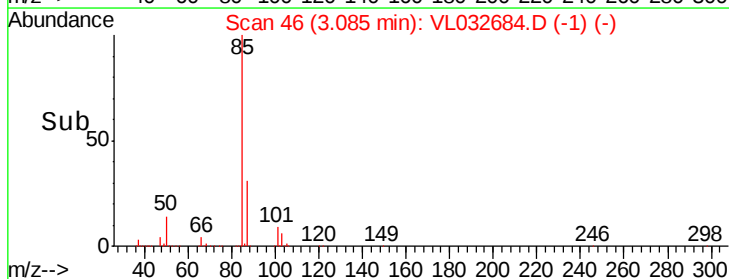
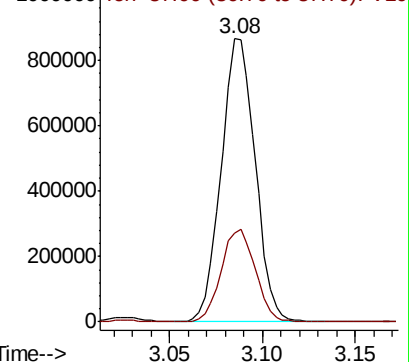
85 100

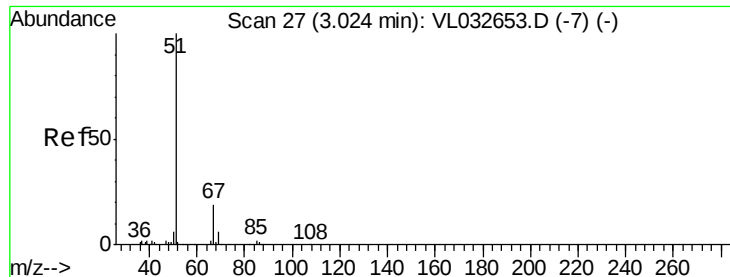
87 31.3 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





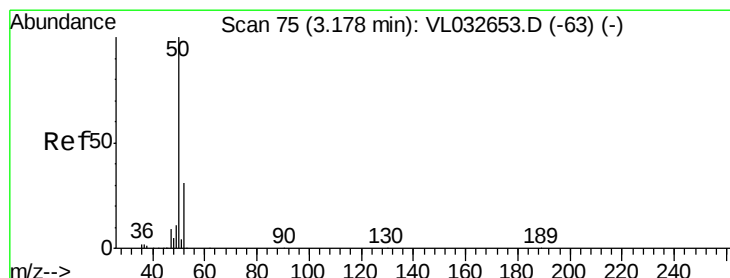
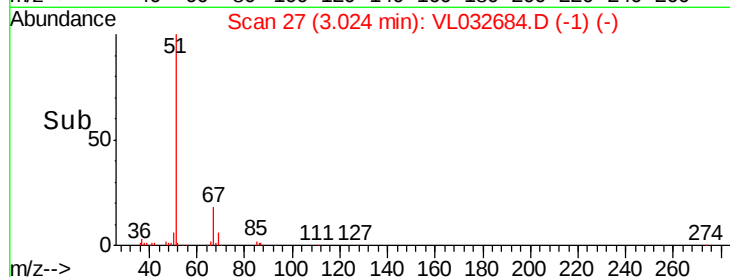
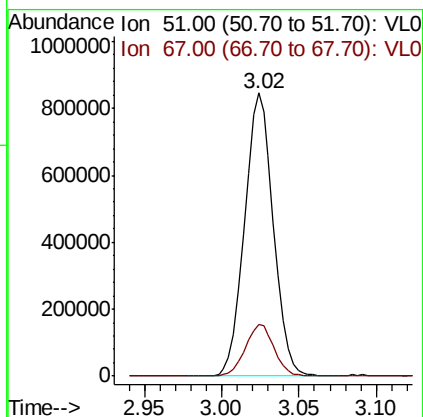
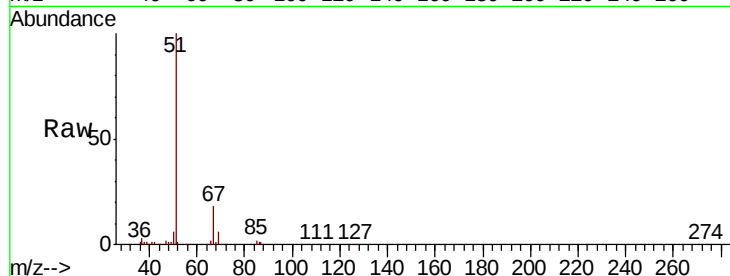
#3
Chlorodifluoromethane
Concen: 9.260 ppbv
RT: 3.02 min Scan# 27
Delta R.T. 0.00 min
Lab File: VL032684.D
Acq: 19 Oct 2018 14:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 51 Resp: 1094344
Ion Ratio Lower Upper
51 100
67 18.6 15.2 22.8

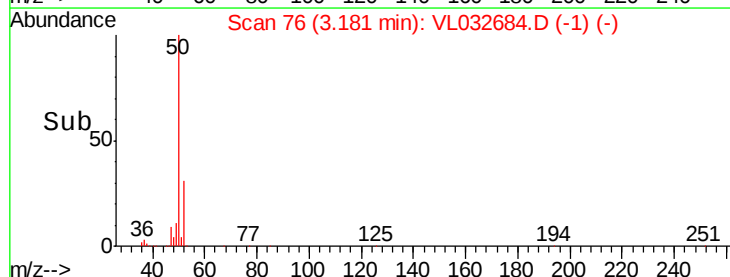
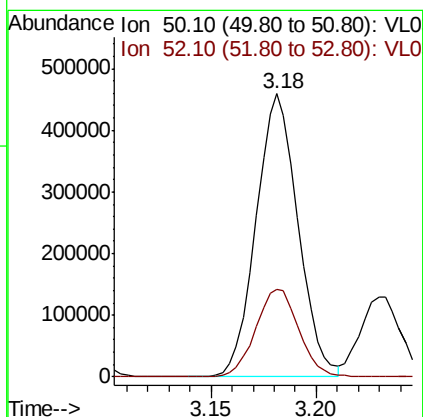
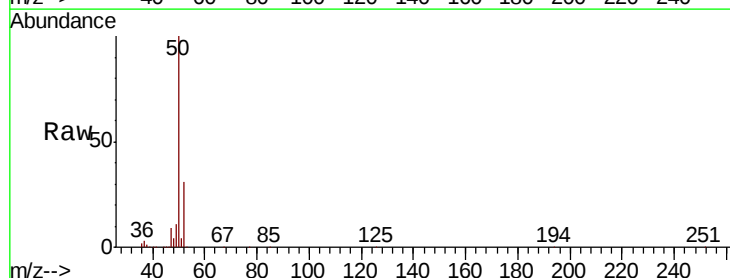
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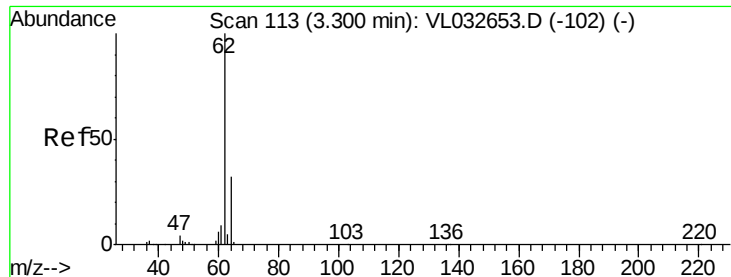
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#4
Chloromethane
Concen: 9.597 ppbv
RT: 3.18 min Scan# 76
Delta R.T. 0.00 min
Lab File: VL032684.D
Acq: 19 Oct 2018 14:55

Tgt Ion: 50 Resp: 633847
Ion Ratio Lower Upper
50 100
52 30.9 25.9 38.9





#5

Vinyl Chloride

Concen: 8.866 ppbv

RT: 3.30 min Scan# 114

Delta R.T. 0.00 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

Instrument :

MSVOA_L

ClientSampleID :

VSTDCCC010EC

Tot Ion: 62 Resp: 634228

Ion Ratio Lower Upper

62 100

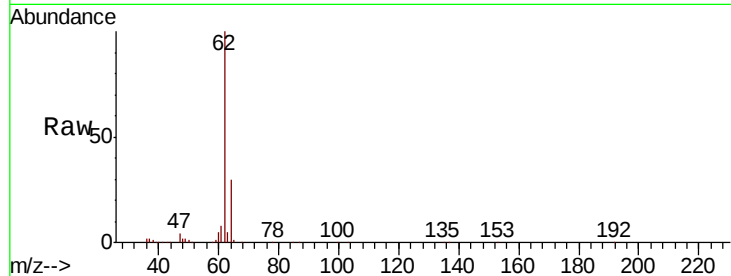
64 30.5 25.5 38.3

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

500000

400000

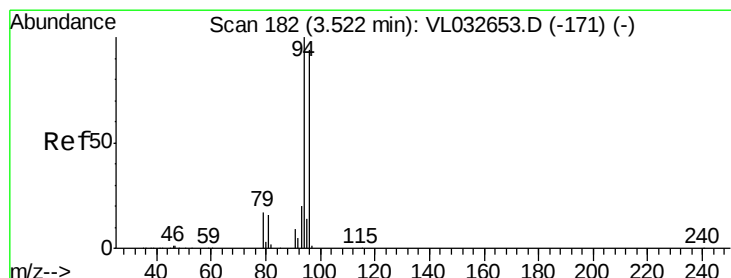
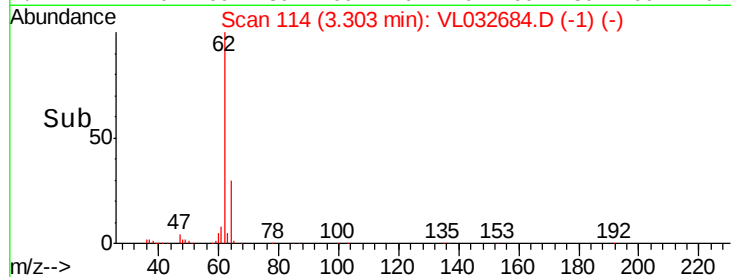
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200000

100000

0

Time-->



#6

Bromomethane

Concen: 8.761 ppbv

RT: 3.53 min Scan# 183

Delta R.T. 0.00 min

Lab File: VL032684.D

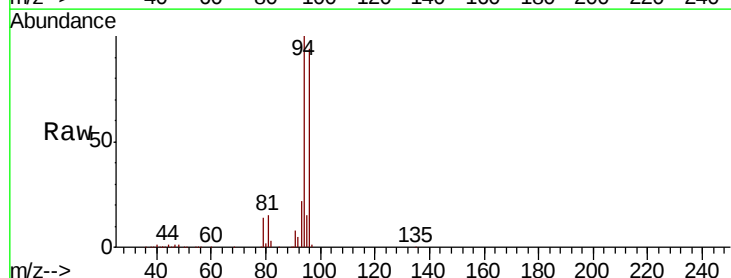
Acq: 19 Oct 2018 14:55

Tgt Ion: 94 Resp: 390749

Ion Ratio Lower Upper

94 100

96 94.2 69.8 104.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.53

300000

250000

200000

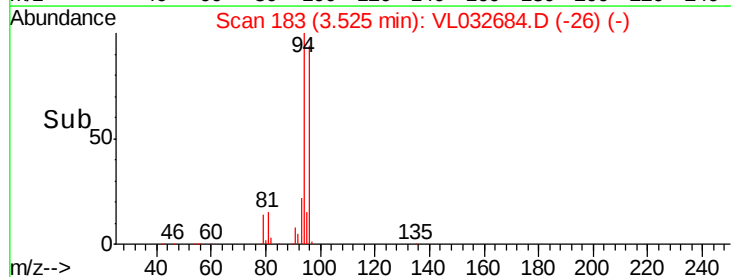
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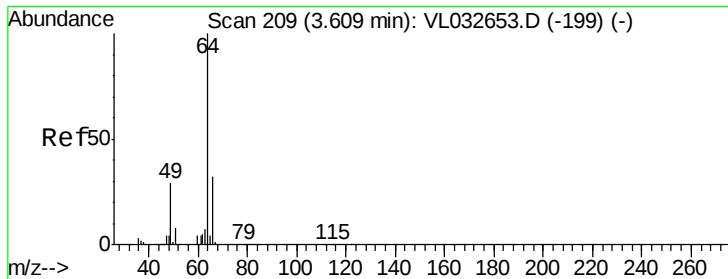
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50000

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Time-->





#7

Chloroethane

Concen: 8.853 ppbv

RT: 3.61 min Scan# 210

Delta R.T. 0.00 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 233214

Ion Ratio Lower Upper

64 100

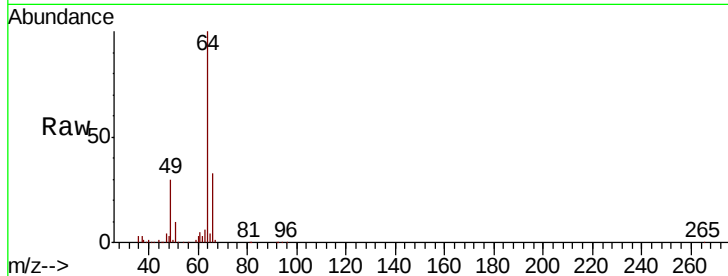
66 32.9 24.4 36.6

Manual Integrations

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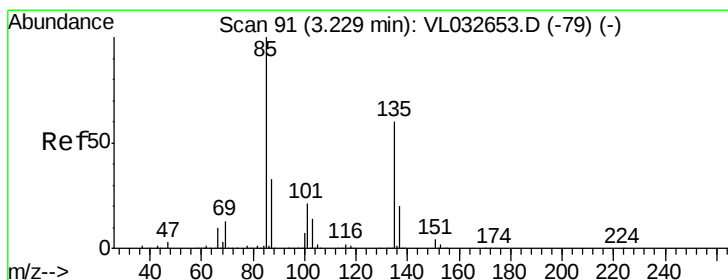
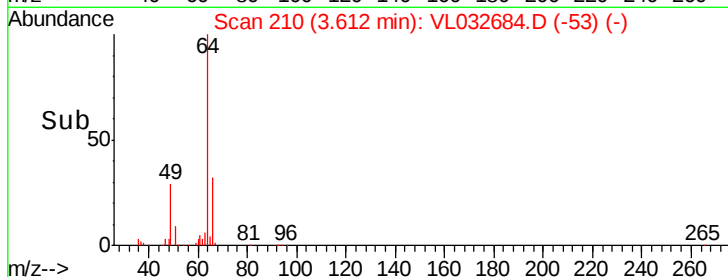
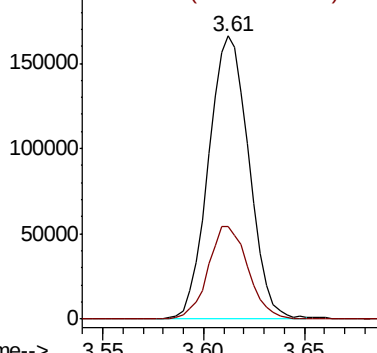
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.026 ppbv

RT: 3.23 min Scan# 91

Delta R.T. 0.00 min

Lab File: VL032684.D

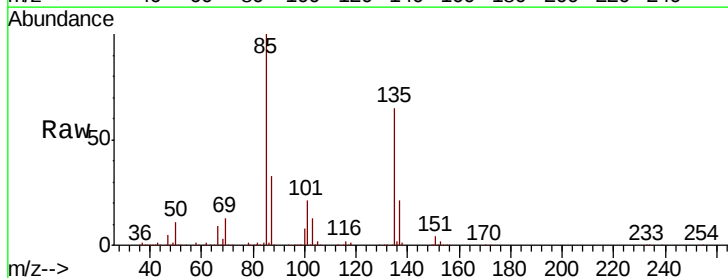
Acq: 19 Oct 2018 14:55

Tgt Ion: 85 Resp: 1464804

Ion Ratio Lower Upper

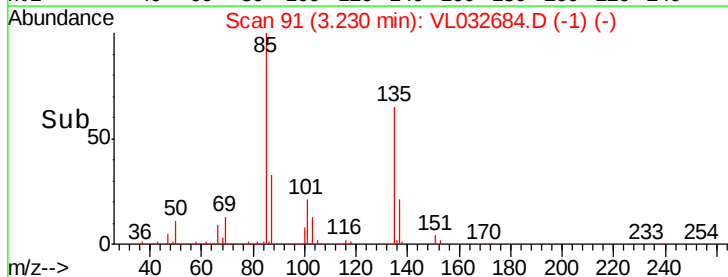
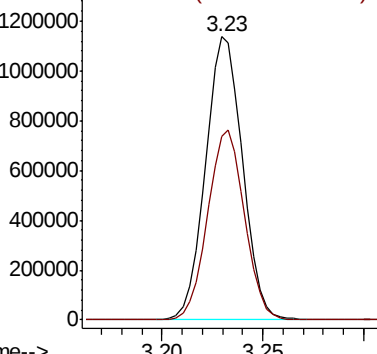
85 100

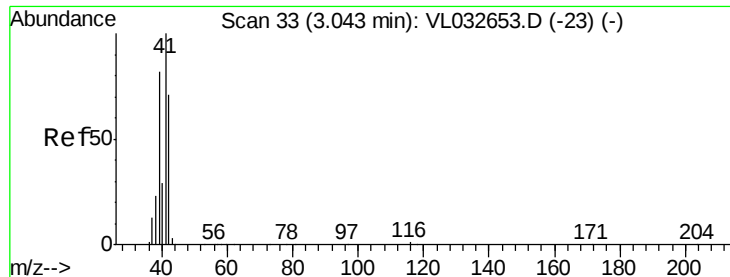
135 67.0 49.0 73.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 10.077 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.00 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 490105

Ion Ratio Lower Upper

41 100

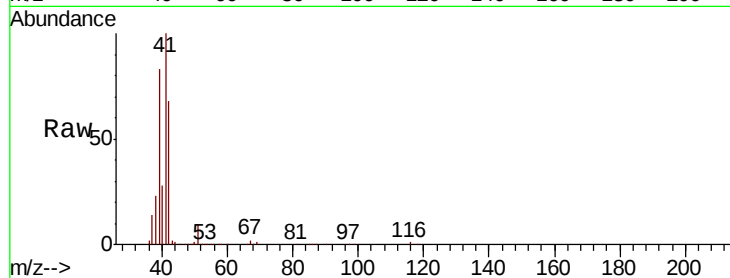
42 68.1 55.4 83.0

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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.05

400000

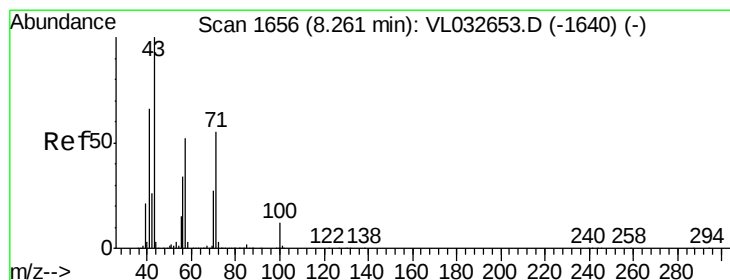
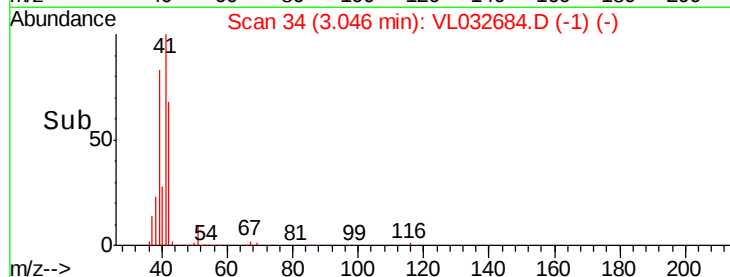
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100000

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Time-->



#10

Heptane

Concen: 10.564 ppbv

RT: 8.26 min Scan# 1657

Delta R.T. 0.00 min

Lab File: VL032684.D

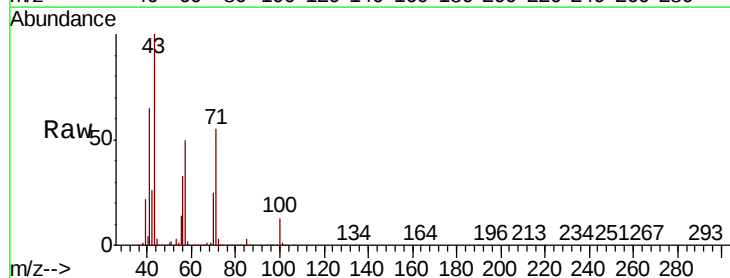
Acq: 19 Oct 2018 14:55

Tgt Ion: 43 Resp: 1979941

Ion Ratio Lower Upper

43 100

57 50.9 41.5 62.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.26

1000000

800000

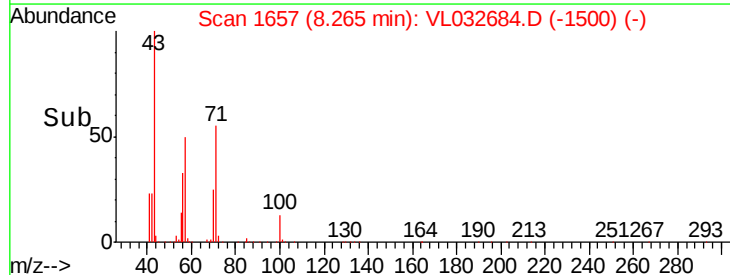
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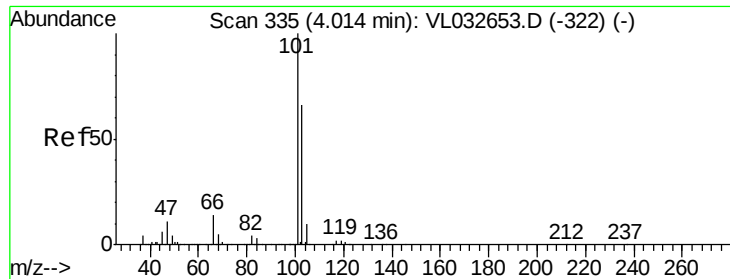
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Time-->





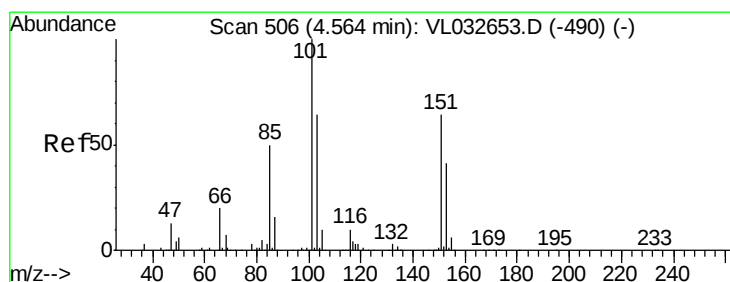
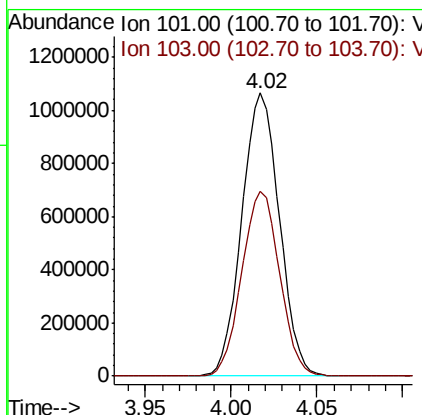
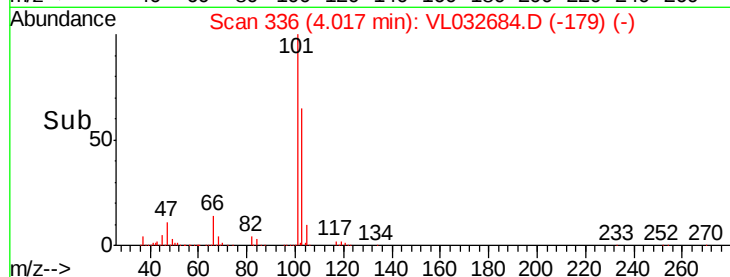
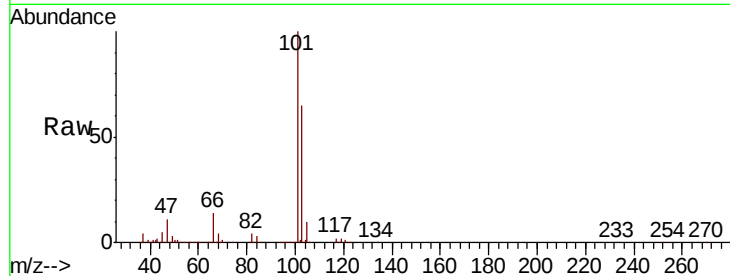
#11
 Trichlorofluoromethane
 Concen: 8.032 ppbv
 RT: 4.02 min Scan# 336
 Delta R.T. 0.00 min
 Lab File: VL032684.D
 Acq: 19 Oct 2018 14:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1615268
 Ion Ratio Lower Upper
 101 100
 103 65.5 51.4 77.2

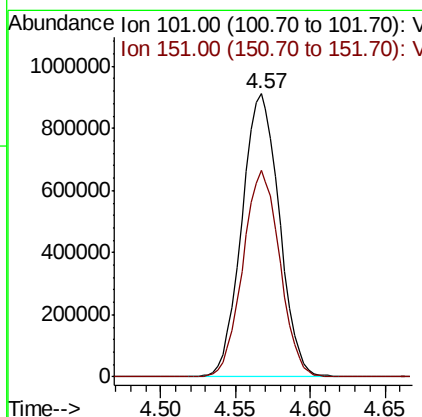
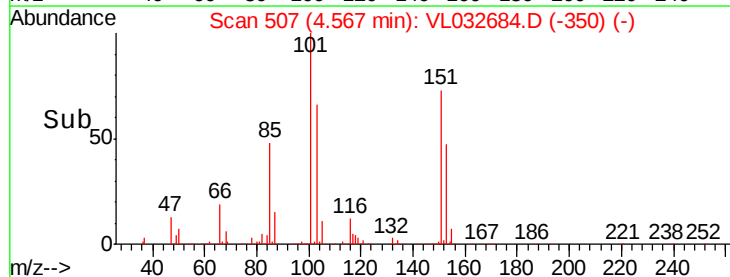
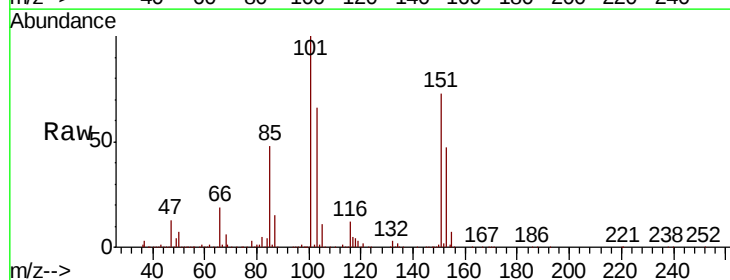
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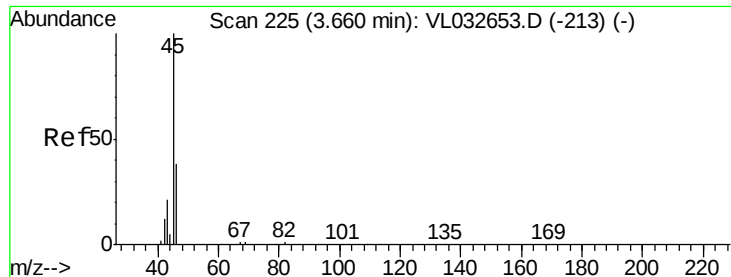
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.509 ppbv
 RT: 4.57 min Scan# 507
 Delta R.T. 0.00 min
 Lab File: VL032684.D
 Acq: 19 Oct 2018 14:55

Tgt Ion:101 Resp: 1590327
 Ion Ratio Lower Upper
 101 100
 151 72.3 52.3 78.5





#13

Ethanol

Concen: 8.626 ppbv

RT: 3.66 min Scan# 226

Delta R.T. 0.00 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 119905

Ion Ratio Lower Upper

45 100

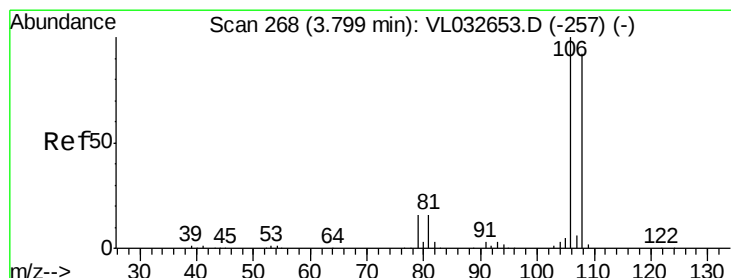
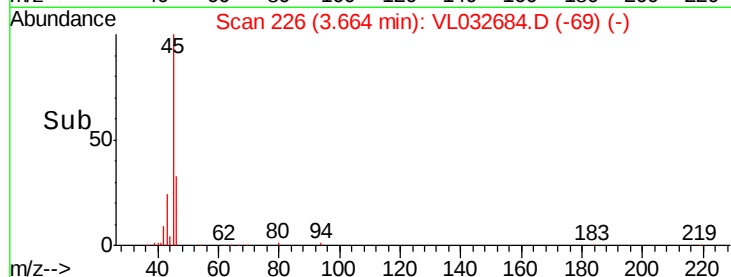
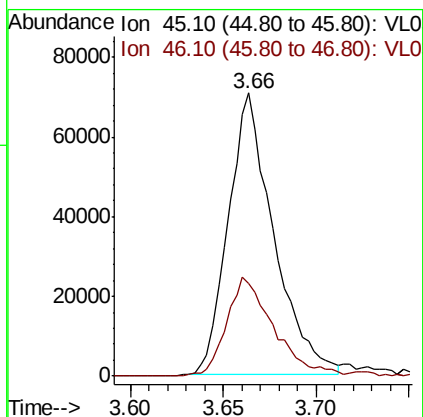
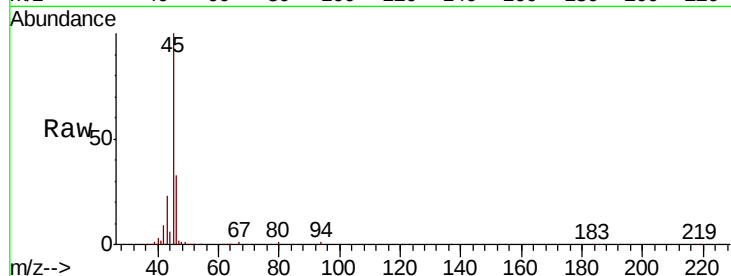
46 37.3 15.4 61.8

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#14

Bromoethene

Concen: 9.167 ppbv

RT: 3.80 min Scan# 269

Delta R.T. 0.00 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

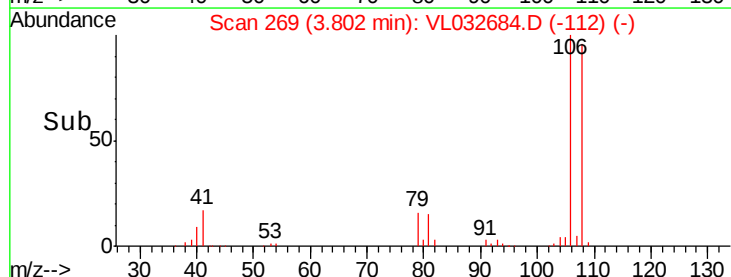
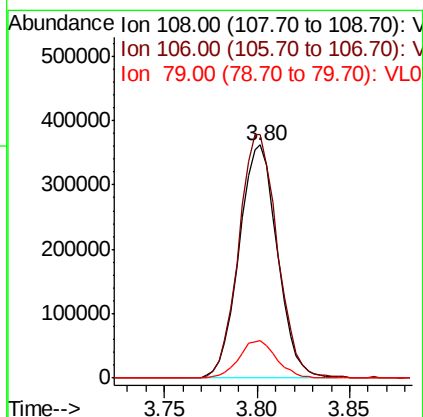
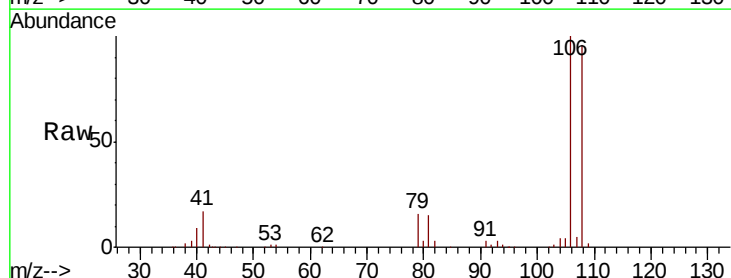
Tgt Ion: 108 Resp: 518166

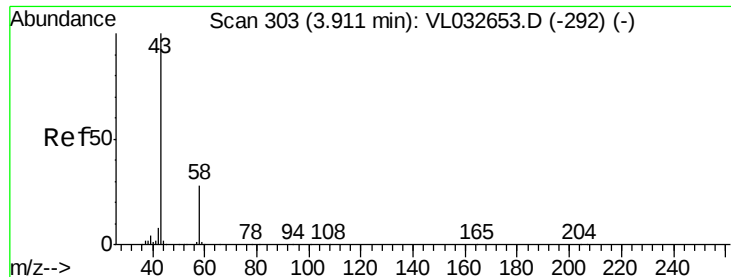
Ion Ratio Lower Upper

108 100

106 106.1 85.0 127.4

79 16.1 13.7 20.5





#15

Acetone

Concen: 7.900 ppbv

RT: 3.91 min Scan# 304

Delta R.T. 0.00 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1102447

Ion Ratio Lower Upper

43 100

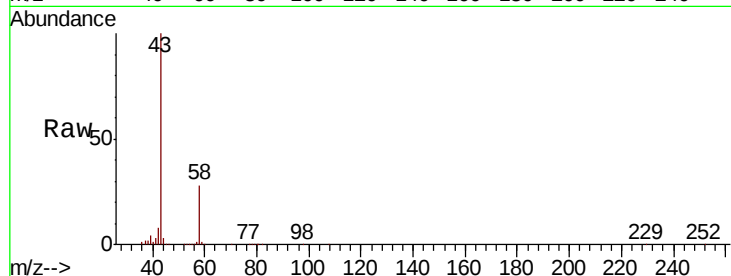
58 27.4 22.1 33.1

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.91

800000

600000

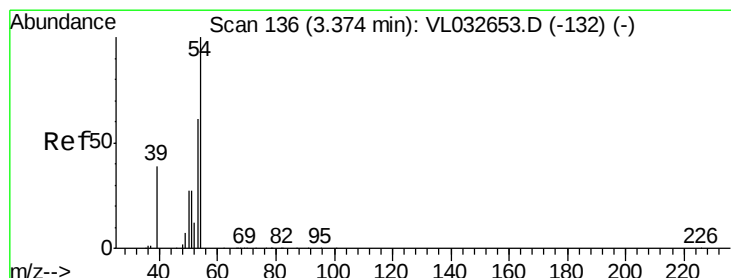
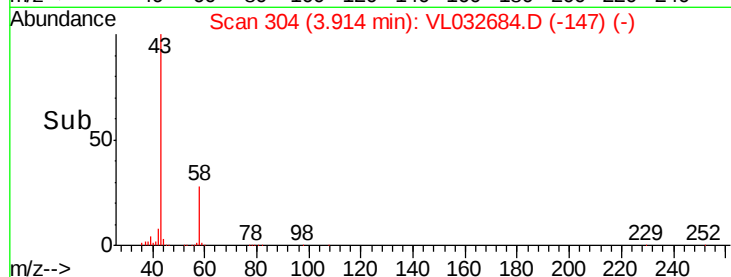
400000

200000

0

3.85 3.90 3.95 4.00

Time-->



#16

1,3-Butadiene

Concen: 10.143 ppbv

RT: 3.37 min Scan# 136

Delta R.T. 0.00 min

Lab File: VL032684.D

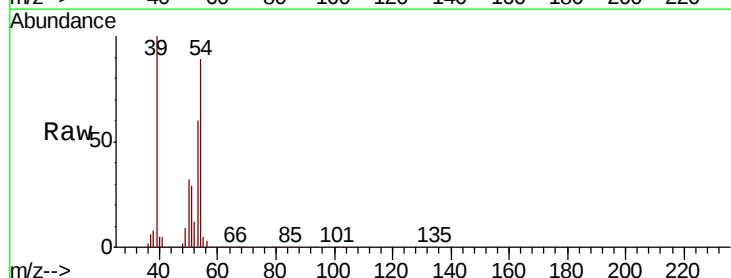
Acq: 19 Oct 2018 14:55

Tgt Ion: 39 Resp: 520681

Ion Ratio Lower Upper

39 100

54 93.7 90.4 135.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.37

400000

300000

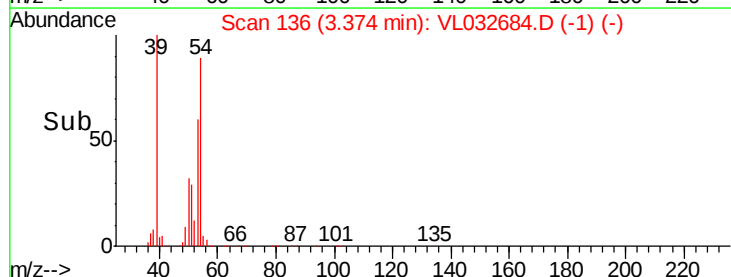
200000

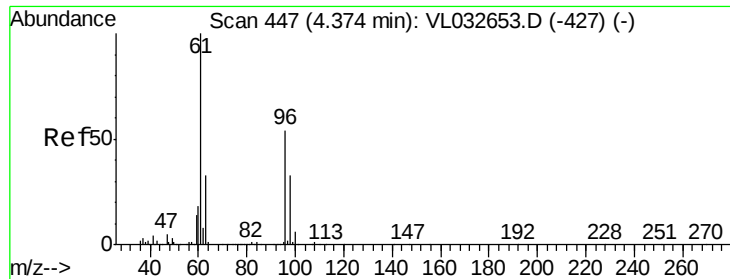
100000

0

3.34 3.36 3.38 3.40 3.42

Time-->





#17

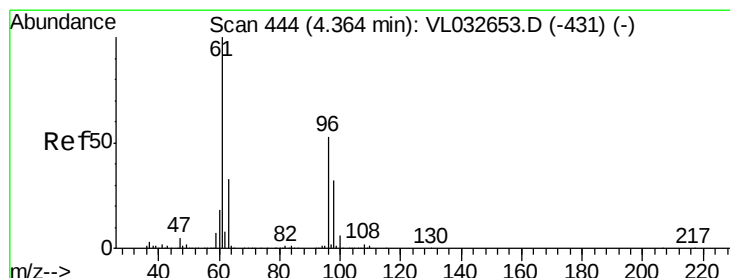
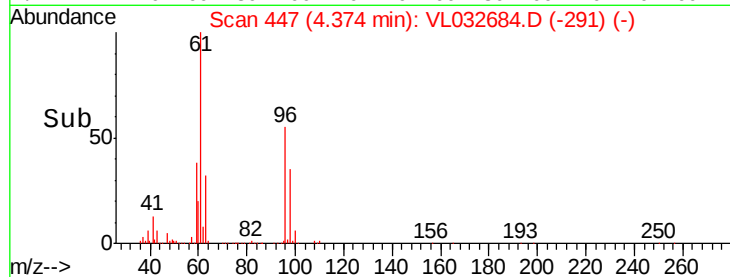
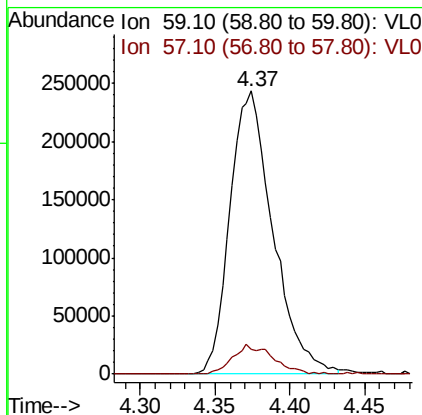
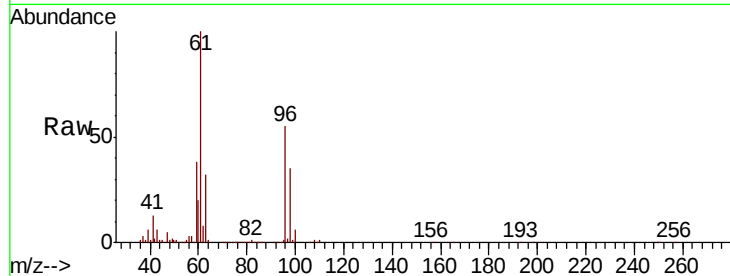
tert-Butyl alcohol
 Concen: 11.879 ppbv
 RT: 4.37 min Scan# 447
 Delta R.T. 0.00 min
 Lab File: VL032684.D
 Acq: 19 Oct 2018 14:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 59 Resp: 487547
 Ion Ratio Lower Upper
 59 100
 57 10.0 0.0 0.0#

Manual Integrations
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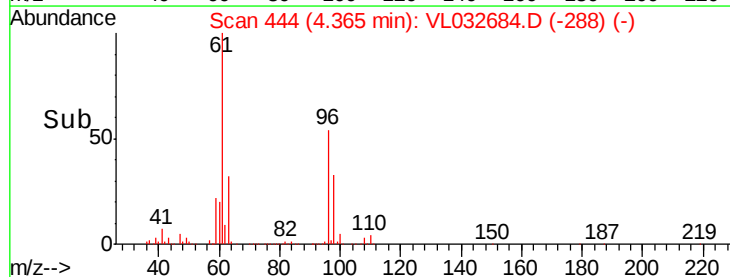
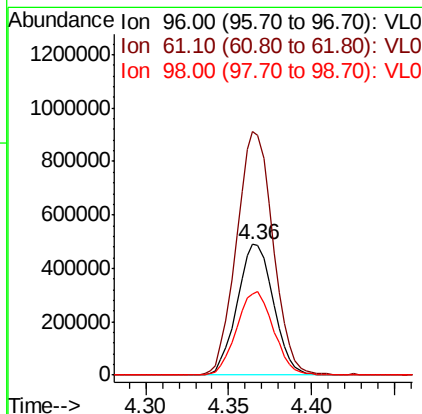
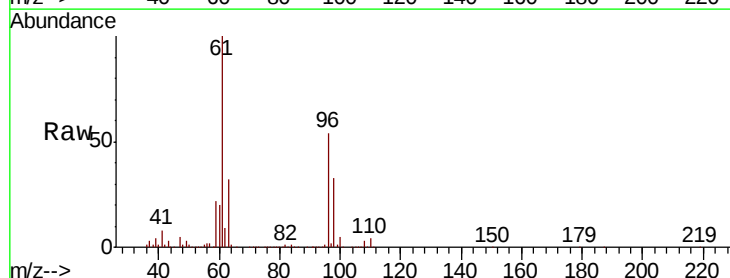
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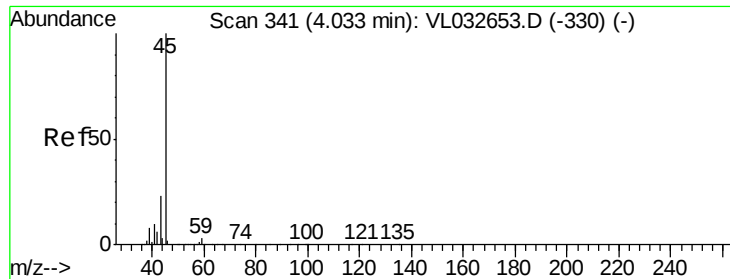


#18

1,1-Dichloroethene
 Concen: 10.175 ppbv
 RT: 4.36 min Scan# 444
 Delta R.T. 0.00 min
 Lab File: VL032684.D
 Acq: 19 Oct 2018 14:55

Tgt Ion: 96 Resp: 747613
 Ion Ratio Lower Upper
 96 100
 61 186.5 151.6 227.4
 98 62.3 50.6 75.8





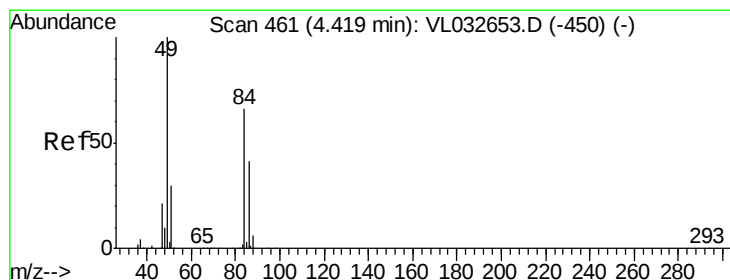
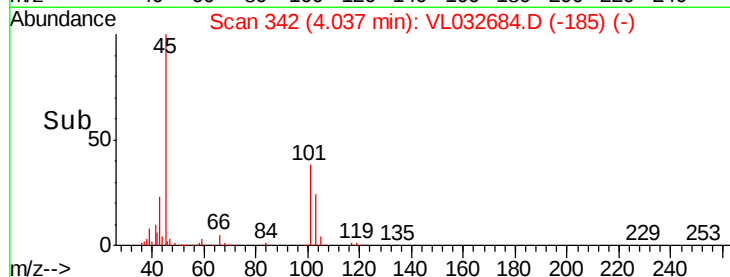
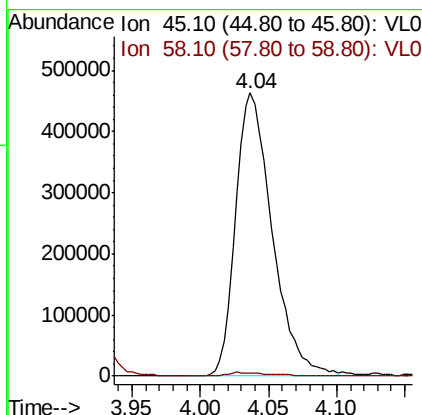
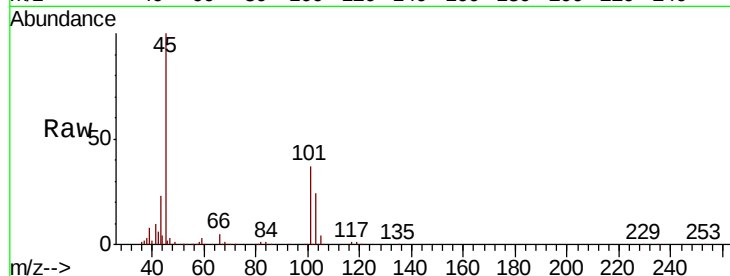
#19
Isopropyl Alcohol
Concen: 8.684 ppbv
RT: 4.04 min Scan# 342
Delta R.T. 0.00 min
Lab File: VL032684.D
Acq: 19 Oct 2018 14:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 45 Resp: 862990
Ion Ratio Lower Upper
45 100
58 1.6 2.0 3.0#

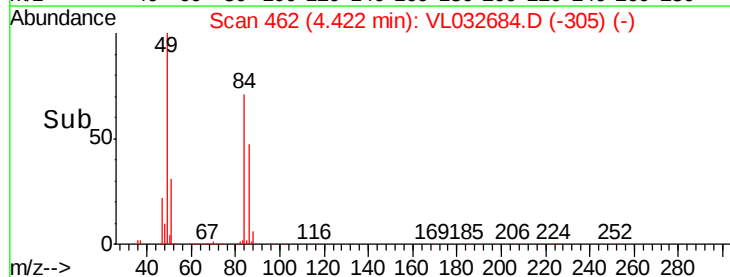
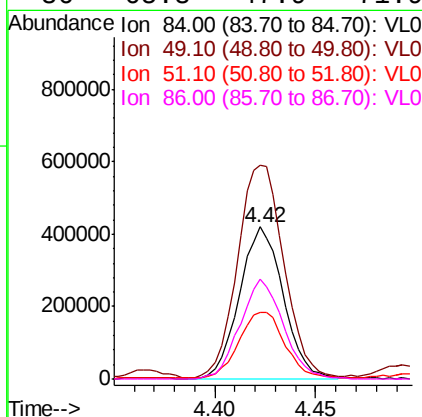
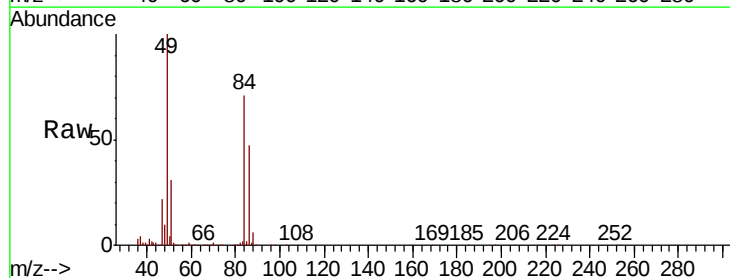
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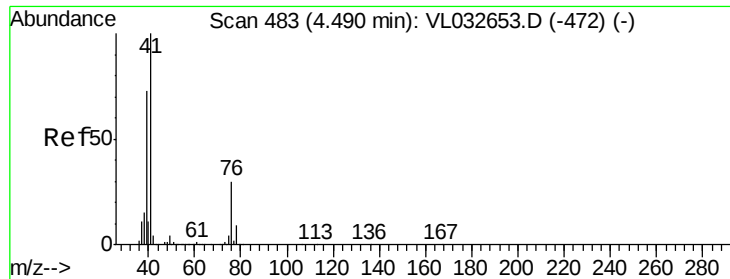
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#20
Methylene Chloride
Concen: 8.973 ppbv
RT: 4.42 min Scan# 462
Delta R.T. 0.00 min
Lab File: VL032684.D
Acq: 19 Oct 2018 14:55

Tgt Ion: 84 Resp: 635590
Ion Ratio Lower Upper
84 100
49 140.0 113.5 170.3
51 42.9 34.8 52.2
86 65.8 47.9 71.9





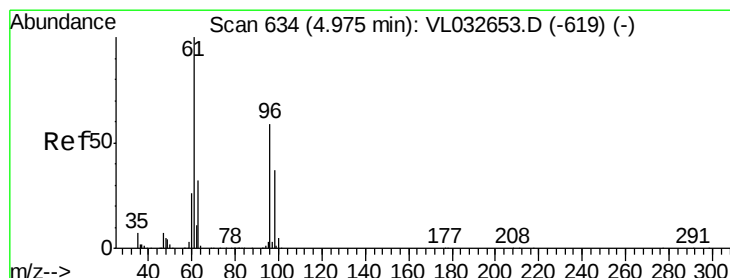
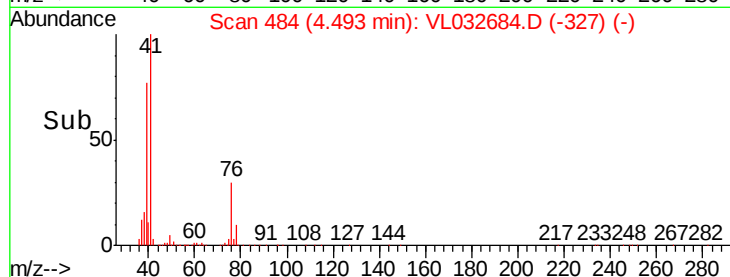
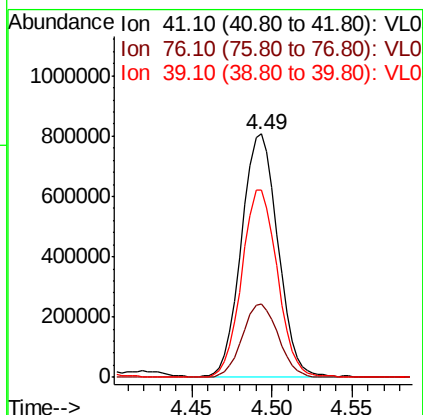
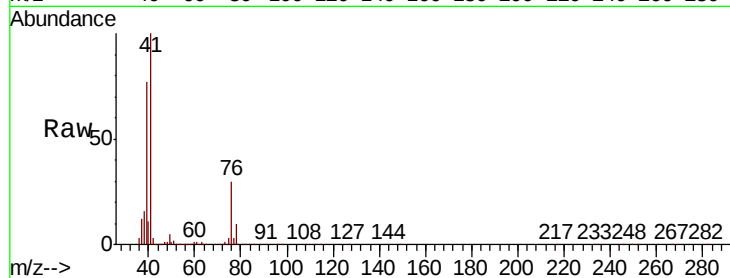
#21
Allvl Chloride
Concen: 10.880 ppbv
RT: 4.49 min Scan# 484
Delta R.T. 0.00 min
Lab File: VL032684.D
Acq: 19 Oct 2018 14:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	29.9	24.3	36.5
39	75.3	60.3	90.5

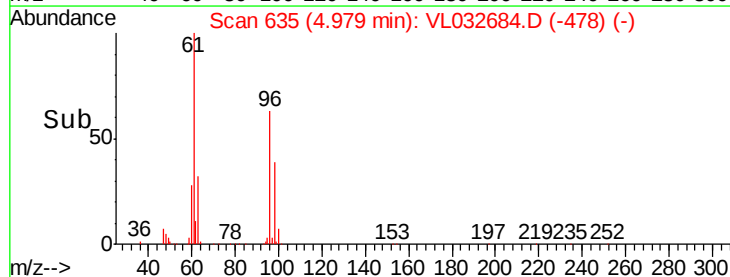
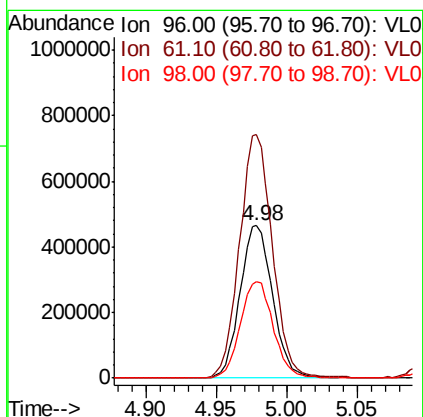
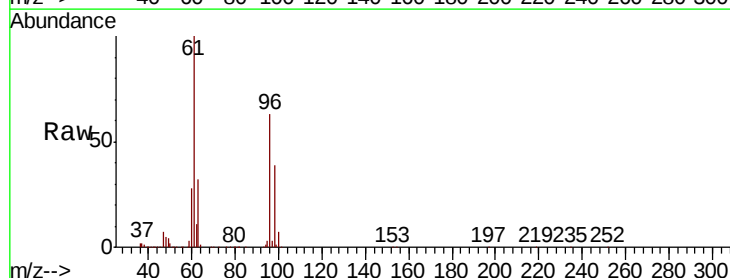
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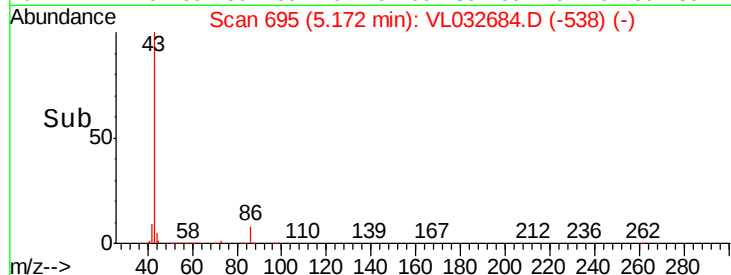
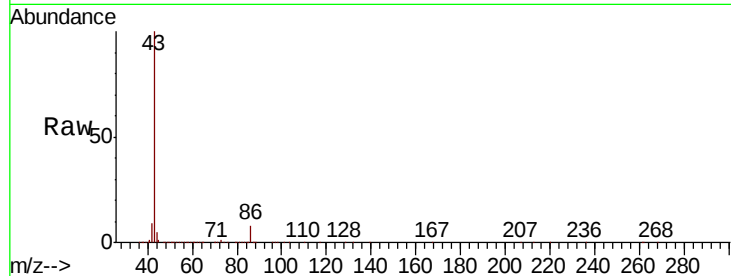
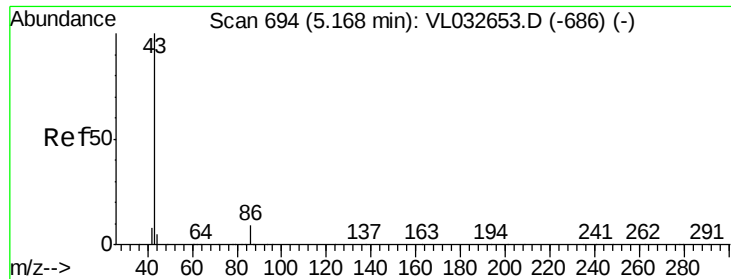
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 10.040 ppbv
RT: 4.98 min Scan# 635
Delta R.T. 0.00 min
Lab File: VL032684.D
Acq: 19 Oct 2018 14:55

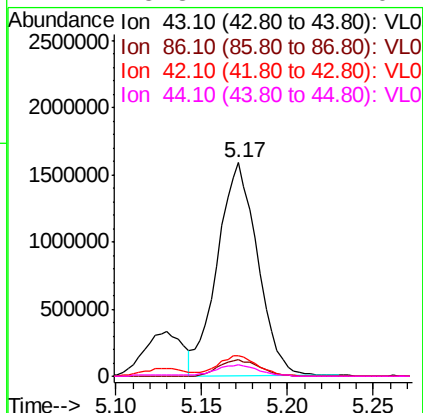
Tgt Ion	Ratio	Lower	Upper
96	100		
61	159.9	140.4	210.6
98	63.0	55.0	82.6





#23
 Vinyl Acetate
 Concen: 10.495 ppbv
 RT: 5.17 min Scan# 695
 Delta R.T. 0.00 min
 Lab File: VL032684.D
 Acq: 19 Oct 2018 14:55

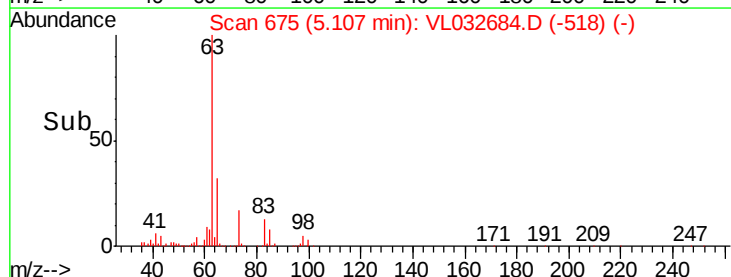
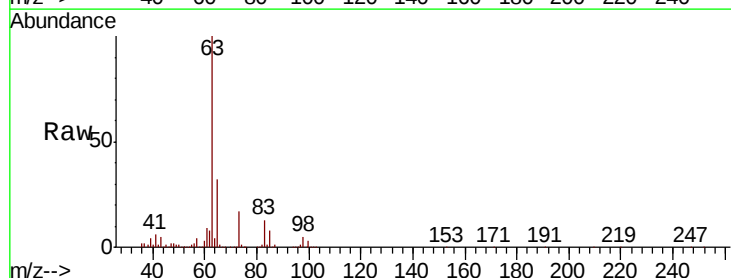
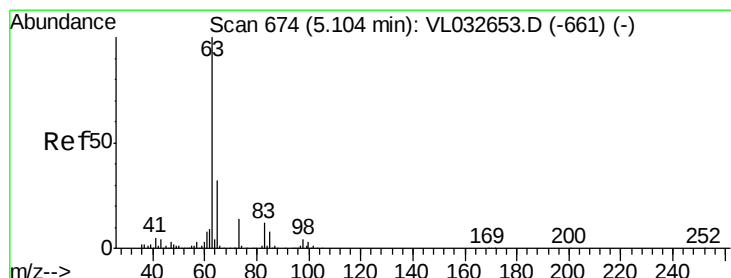
Tot Ion	43	Resp	2595247
Ion	Ratio	Lower	Upper
43	100		
86	7.9	6.1	9.1
42	9.3	7.4	11.2
44	5.3	4.2	6.2



Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

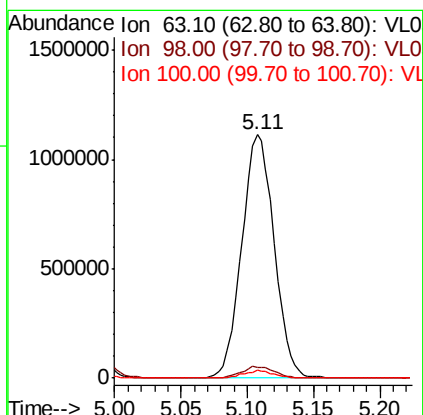
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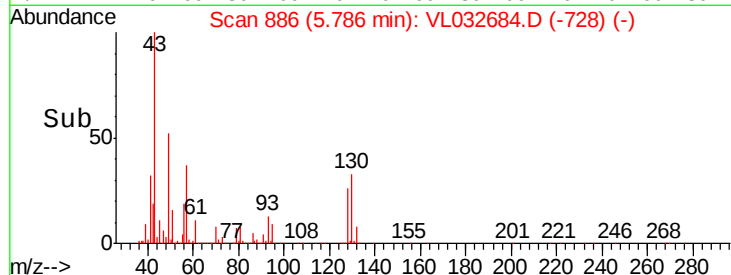
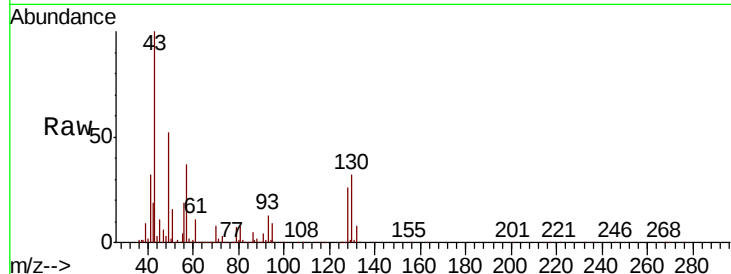
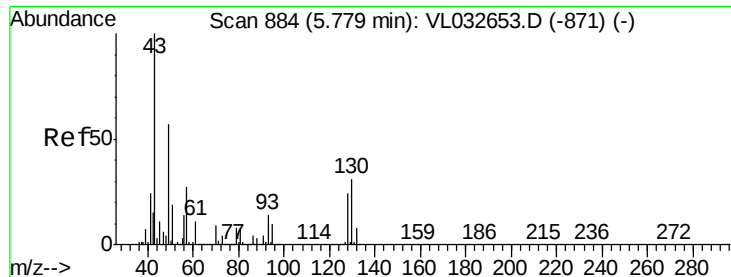
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#24
 1,1-Dichloroethane
 Concen: 9.718 ppbv
 RT: 5.11 min Scan# 675
 Delta R.T. 0.00 min
 Lab File: VL032684.D
 Acq: 19 Oct 2018 14:55

Tgt Ion	63	Resp	1886414
Ion	Ratio	Lower	Upper
63	100		
98	4.6	2.1	6.3
100	3.2	1.2	3.6





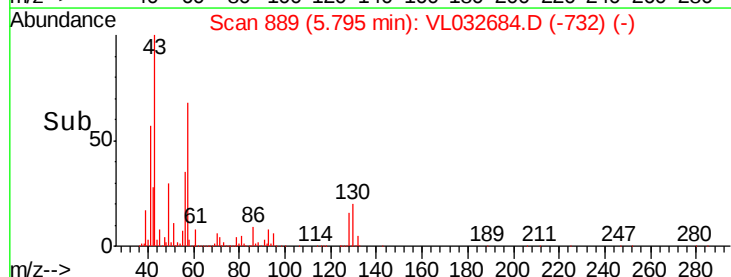
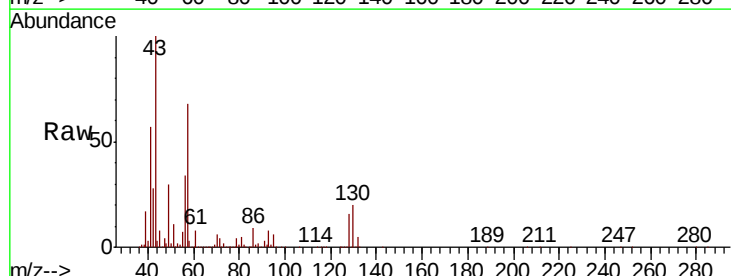
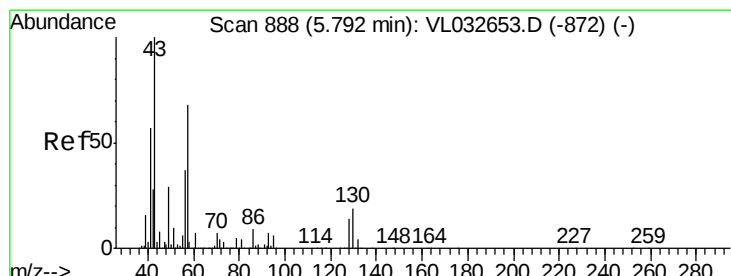
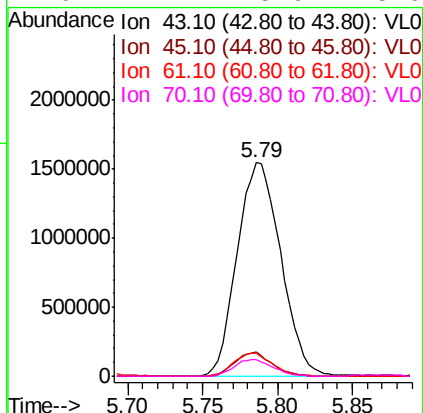
#25
Ethyl Acetate
Concen: 9.781 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.01 min
Lab File: VL032684.D
Acq: 19 Oct 2018 14:55

Tot Ion	43	Resp	3141581
Ion	Ratio	Lower	Upper
43	100		
45	9.7	8.0	12.0
61	9.6	8.0	12.0
70	7.1	5.9	8.9

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

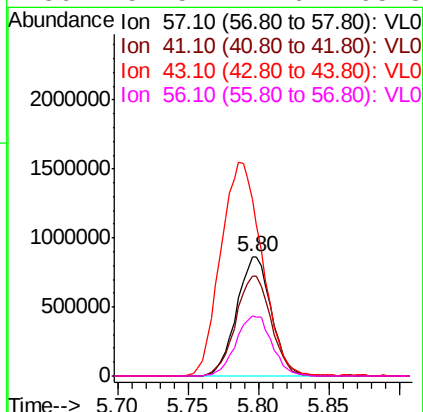
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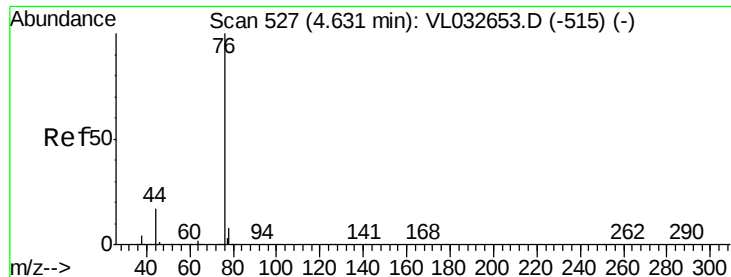
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#26
Hexane
Concen: 9.753 ppbv
RT: 5.80 min Scan# 889
Delta R.T. 0.00 min
Lab File: VL032684.D
Acq: 19 Oct 2018 14:55

Tgt Ion	57	Resp	1482304
Ion	Ratio	Lower	Upper
57	100		
41	85.9	67.4	101.0
43	212.8	171.9	257.9
56	52.5	42.6	63.8





#27

Carbon Disulfide

Concen: 10.197 ppbv

RT: 4.63 min Scan# 528

Delta R.T. 0.00 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1880012

Ion Ratio Lower Upper

76 100

44 17.4 13.7 20.5

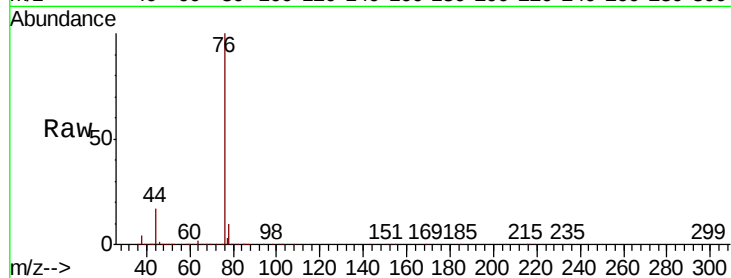
78 9.1 7.4 11.2

Manual Integrations

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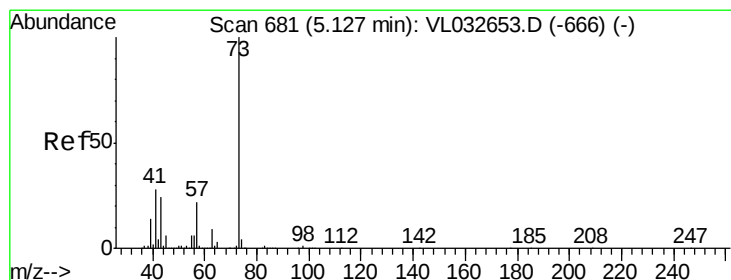
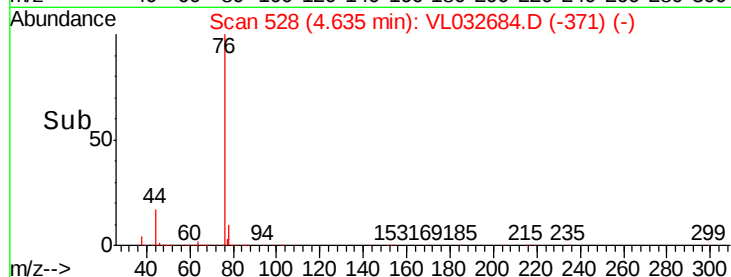
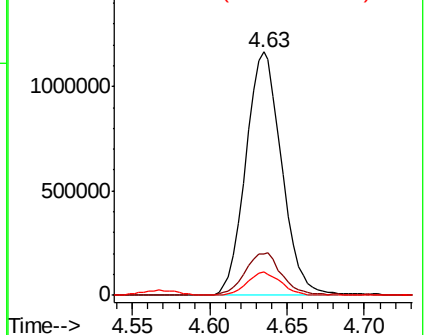
10/24/2018 12:07:02 PM



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: 10.593 ppbv

RT: 5.13 min Scan# 682

Delta R.T. 0.00 min

Lab File: VL032684.D

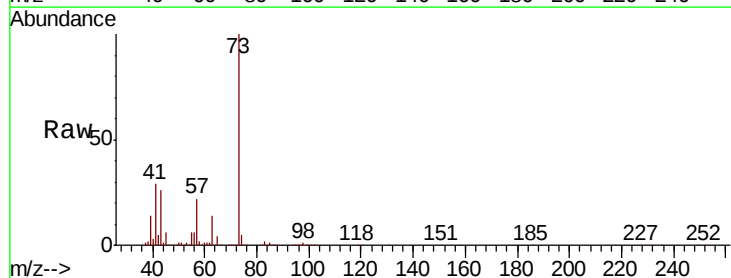
Acq: 19 Oct 2018 14:55

Tgt Ion: 73 Resp: 2313795

Ion Ratio Lower Upper

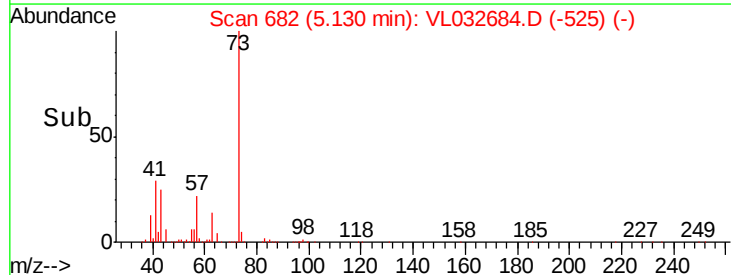
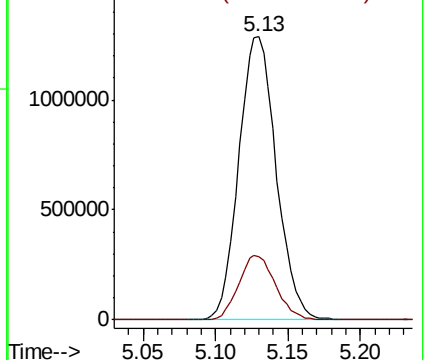
73 100

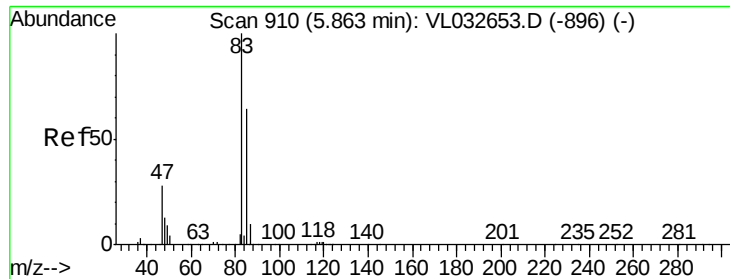
57 22.6 18.0 27.0



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 9.645 ppbv

RT: 5.87 min Scan# 911

Delta R.T. 0.00 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 2341366

Ion Ratio Lower Upper

83 100

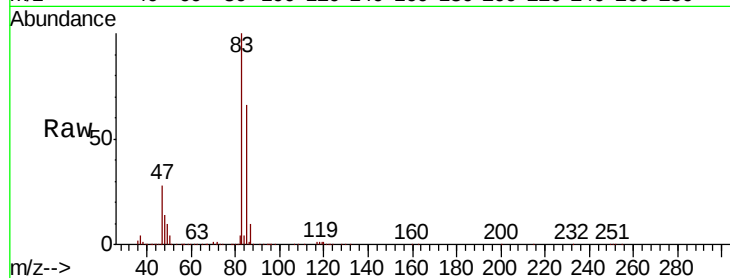
85 65.9 53.0 79.6

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Abundance Ion 83.00 (82.70 to 83.70): VL0

1500000 Ion 85.00 (84.70 to 85.70): VL0

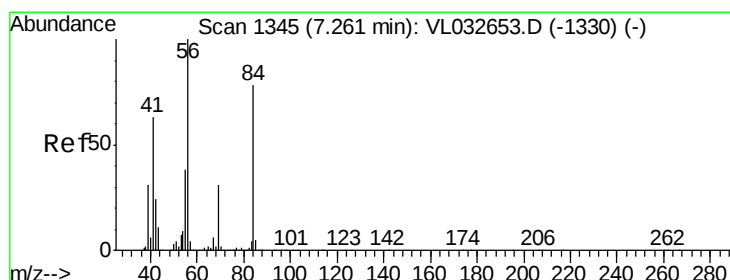
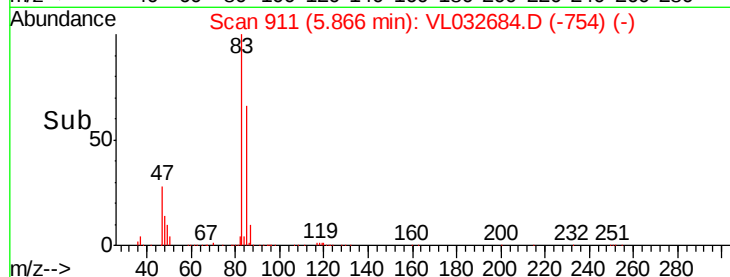
5.87

1000000

500000

0

Time-->



#30

Cyclohexane

Concen: 10.794 ppbv

RT: 7.27 min Scan# 1347

Delta R.T. 0.01 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

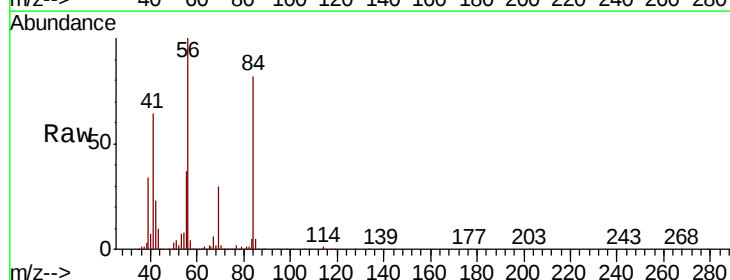
Tgt Ion: 84 Resp: 1298472

Ion Ratio Lower Upper

84 100

56 132.7 108.3 162.5

41 80.4 64.8 97.2



Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

1000000

800000

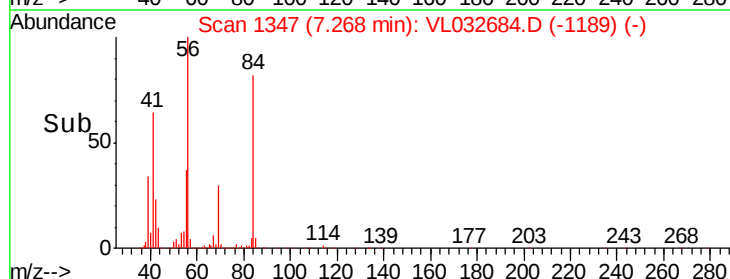
600000

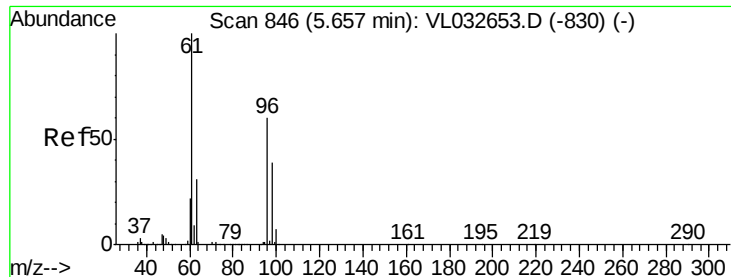
400000

200000

0

Time-->





#31

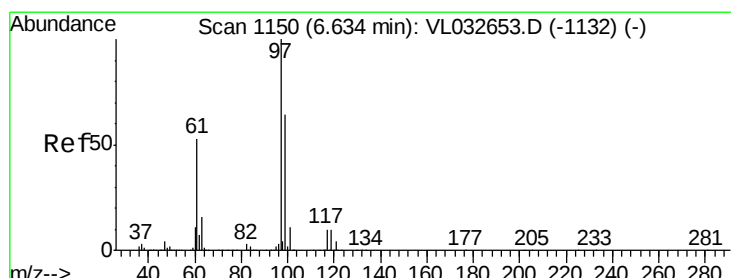
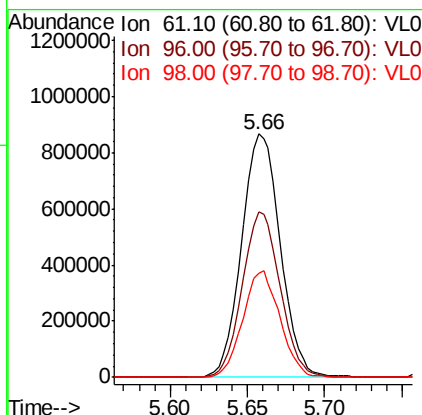
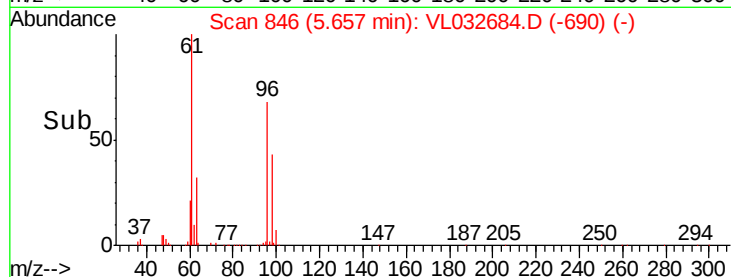
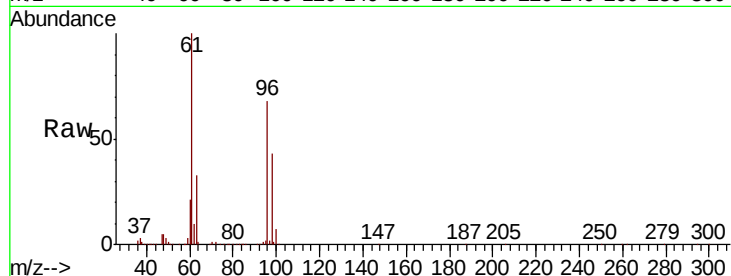
cis-1,2-Dichloroethene
Concen: 10.716 ppbv
RT: 5.66 min Scan# 846
Delta R.T. 0.00 min
Lab File: VL032684.D
Acq: 19 Oct 2018 14:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	68.0	51.8	77.6
98	43.0	33.8	50.6

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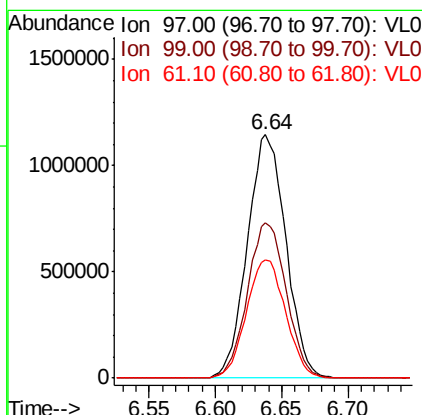
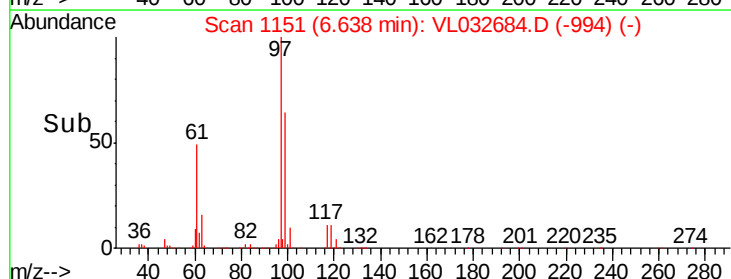
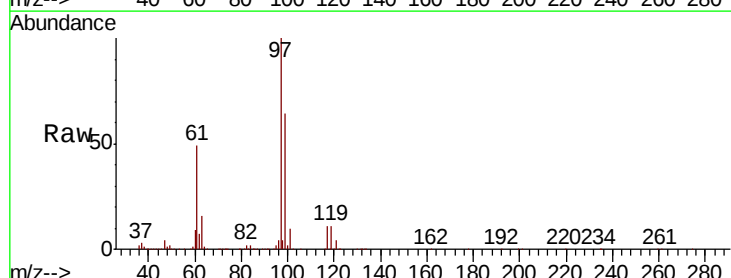
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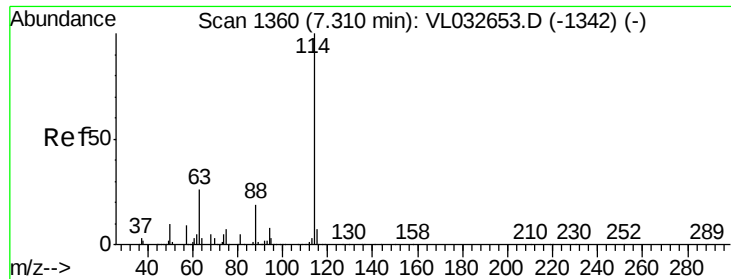


#32

1,1,1-Trichloroethane
Concen: 9.394 ppbv
RT: 6.64 min Scan# 1151
Delta R.T. 0.00 min
Lab File: VL032684.D
Acq: 19 Oct 2018 14:55

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	52.0	78.0
61	49.7	40.7	61.1





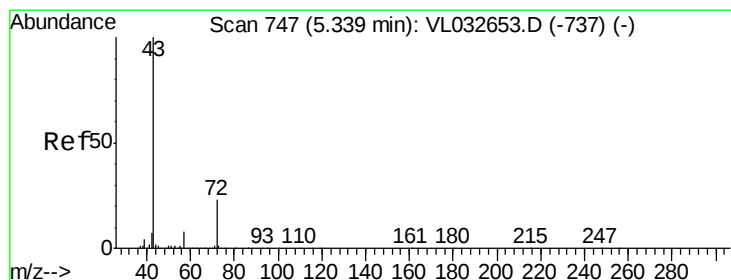
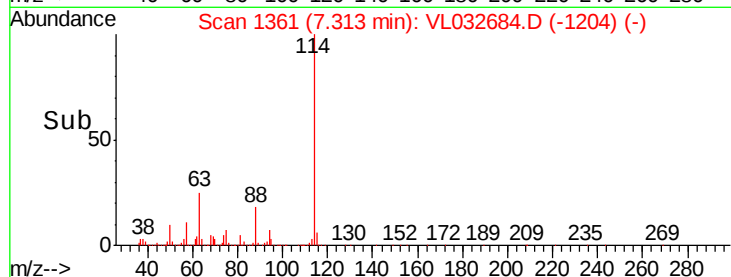
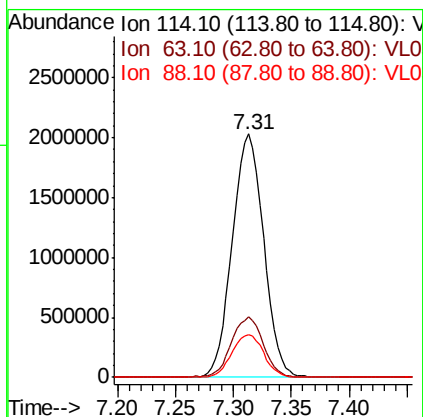
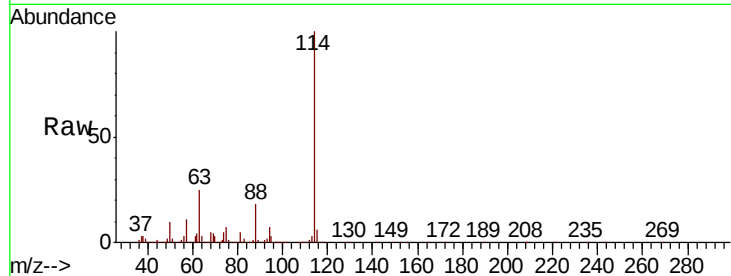
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.31 min Scan# 1361
 Delta R.T. 0.00 min
 Lab File: VL032684.D
 Acq: 19 Oct 2018 14:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:114 Resp: 3824524
 Ion Ratio Lower Upper
 114 100
 63 25.4 21.7 32.5
 88 17.8 14.9 22.3

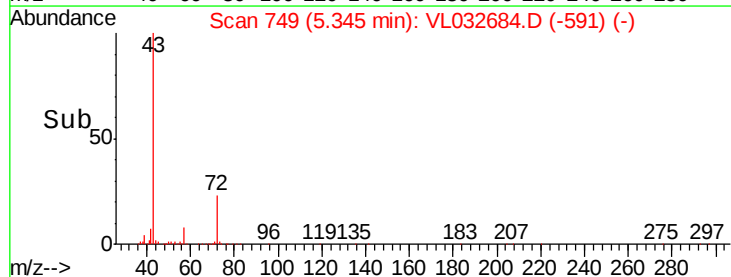
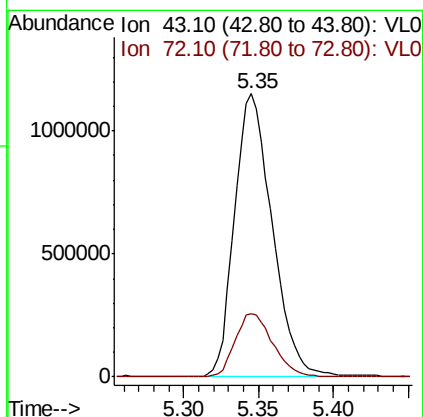
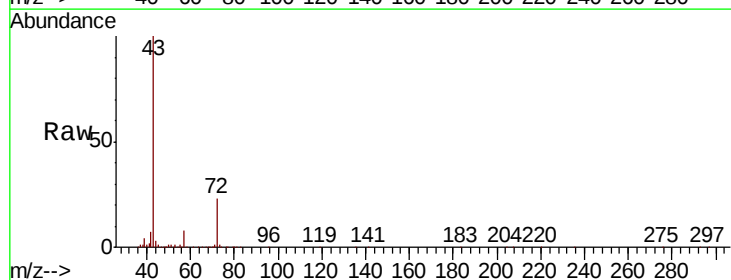
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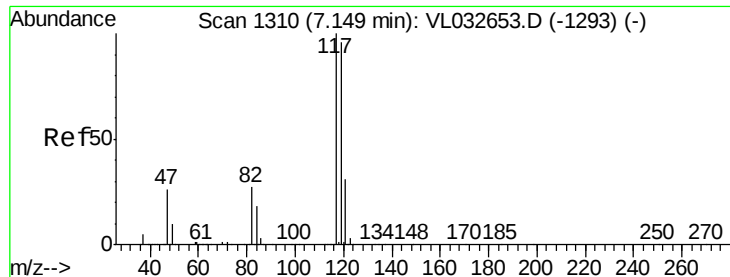
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#34
 2-Butanone
 Concen: 9.817 ppbv
 RT: 5.35 min Scan# 749
 Delta R.T. 0.01 min
 Lab File: VL032684.D
 Acq: 19 Oct 2018 14:55

Tgt Ion: 43 Resp: 2012642
 Ion Ratio Lower Upper
 43 100
 72 22.8 18.6 27.8





#35

Carbon Tetrachloride

Concen: 9.212 ppbv

RT: 7.15 min Scan# 1311

Delta R.T. 0.00 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 2500361

Ion Ratio Lower Upper

117 100

119 98.1 75.7 113.5

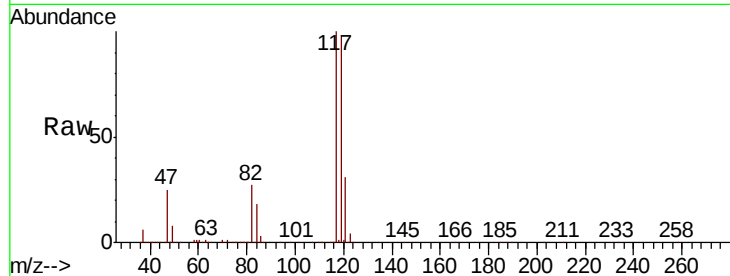
121 31.0 24.7 37.1

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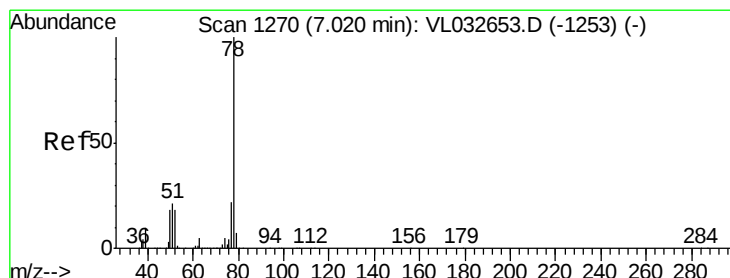
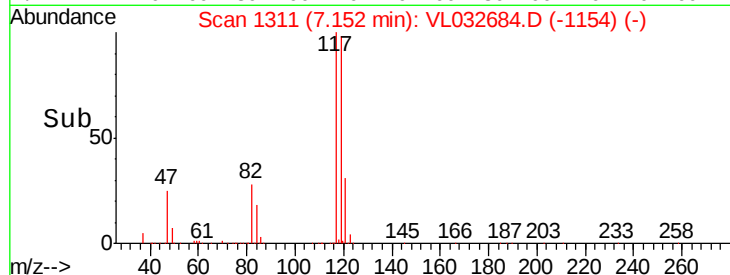
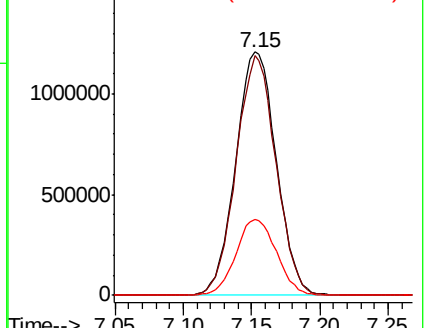
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.834 ppbv

RT: 7.03 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

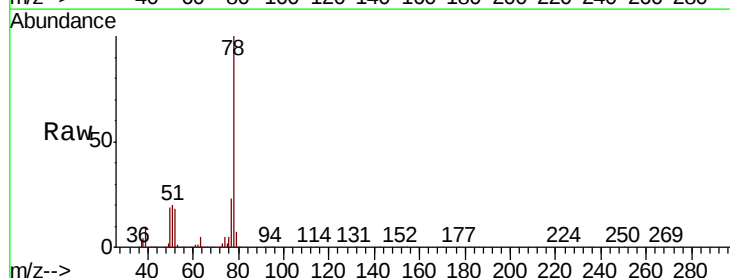
Tgt Ion: 78 Resp: 3054012

Ion Ratio Lower Upper

78 100

77 22.9 18.1 27.1

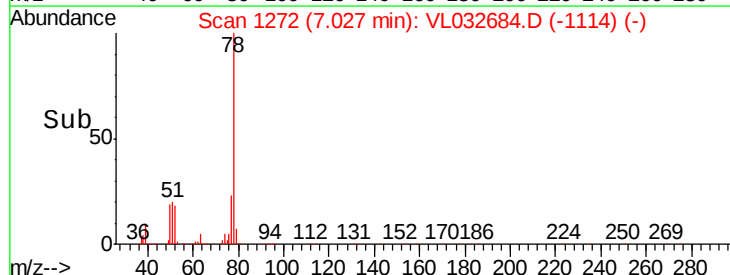
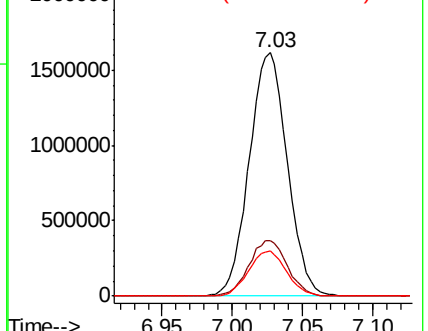
50 18.7 15.1 22.7

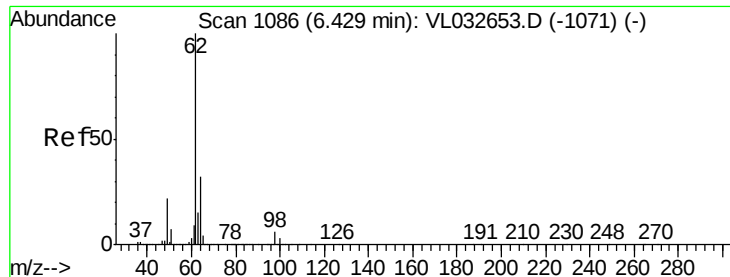


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





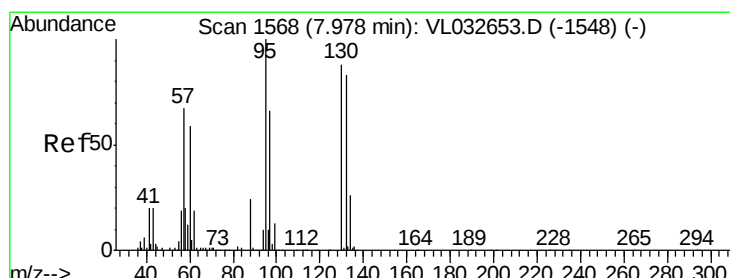
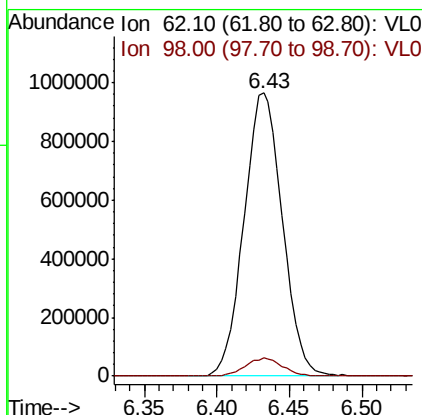
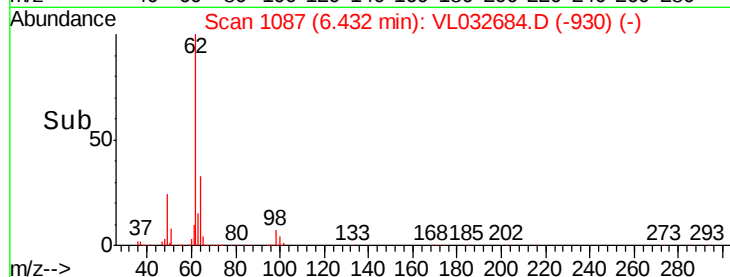
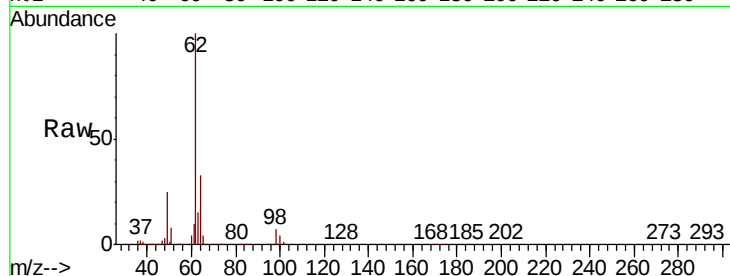
#37
 1,2-Dichloroethane
 Concen: 9.325 ppbv
 RT: 6.43 min Scan# 1087
 Delta R.T. 0.00 min
 Lab File: VL032684.D
 Acq: 19 Oct 2018 14:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 62 Resp: 1776318
 Ion Ratio Lower Upper
 62 100
 98 6.3 4.4 6.6

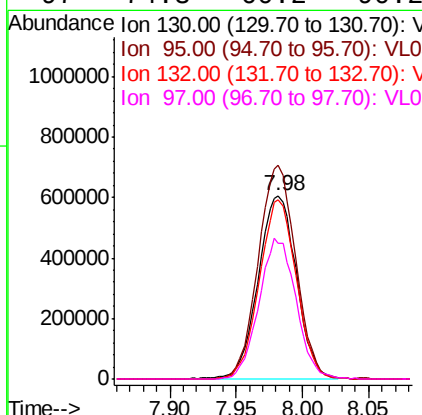
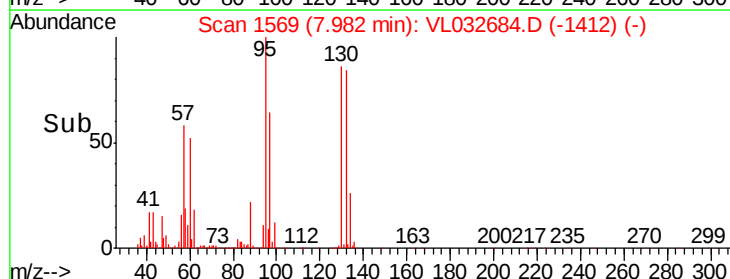
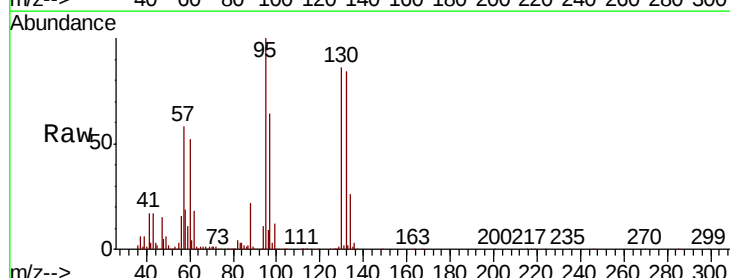
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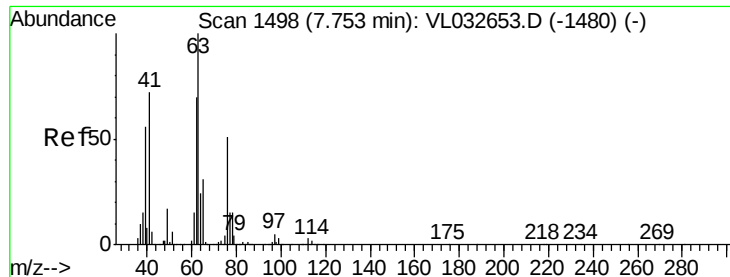
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#38
 Trichloroethene
 Concen: 10.528 ppbv
 RT: 7.98 min Scan# 1569
 Delta R.T. 0.00 min
 Lab File: VL032684.D
 Acq: 19 Oct 2018 14:55

Tgt Ion: 130 Resp: 1210394
 Ion Ratio Lower Upper
 130 100
 95 116.6 93.4 140.0
 132 97.8 76.5 114.7
 97 74.3 60.2 90.2





#39

1,2-Dichloropropane

Concen: 9.880 ppbv

RT: 7.76 min Scan# 1499

Delta R.T. 0.00 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 63 Resp: 1184850

Ion Ratio Lower Upper

63 100

41 70.7 56.2 84.4

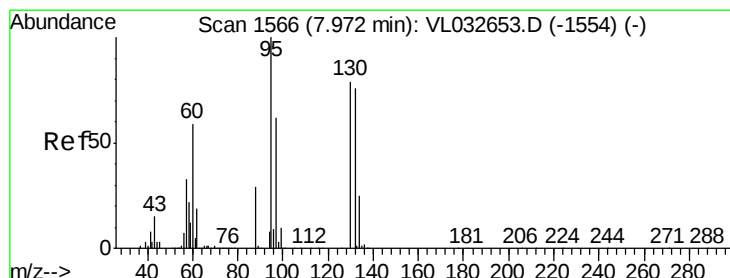
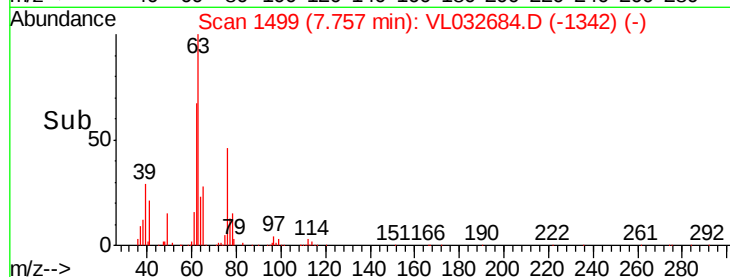
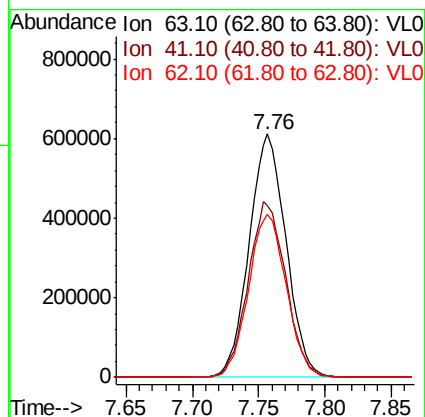
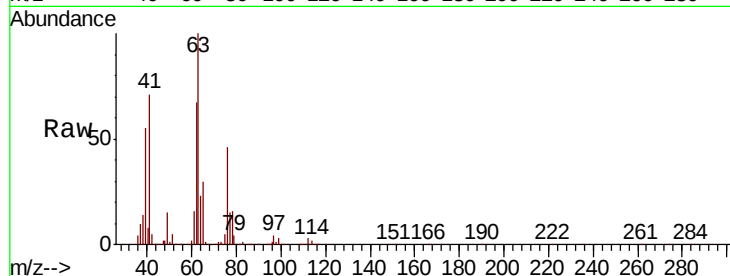
62 66.9 54.4 81.6

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#40

1,4-Dioxane

Concen: 9.808 ppbv

RT: 7.98 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

Tgt Ion: 88 Resp: 401741

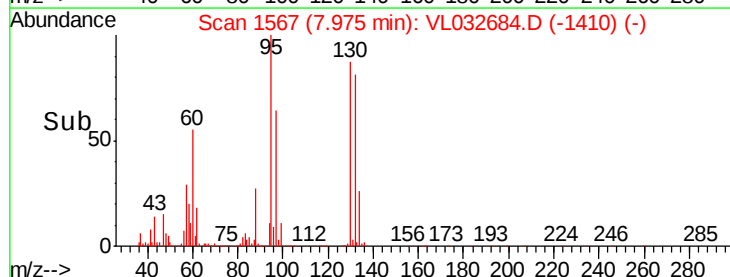
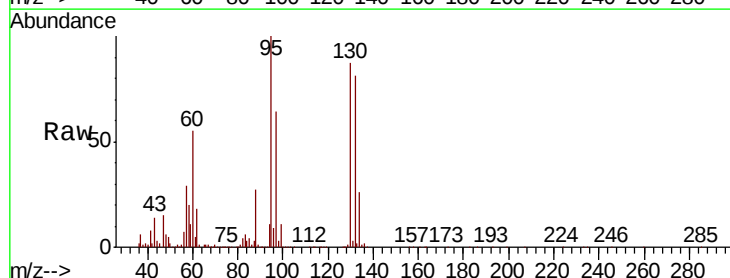
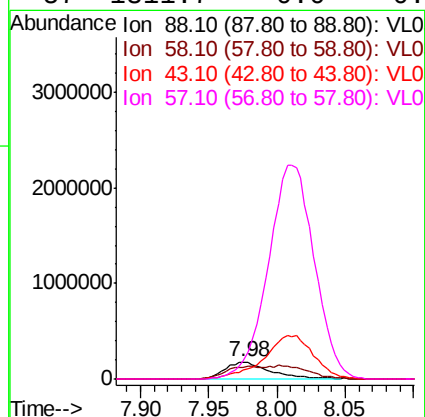
Ion Ratio Lower Upper

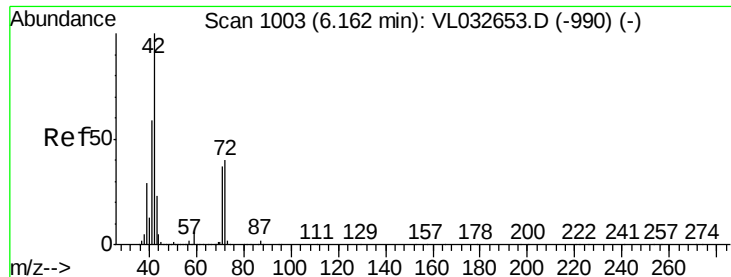
88 100

58 133.9 104.0 156.0

43 283.9 0.0 0.0#

57 1311.7 0.0 0.0#





#41

Tetrahydrofuran

Concen: 10.894 ppbv

RT: 6.17 min Scan# 1004

Delta R.T. 0.00 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

Instrument :

MSVOA_L

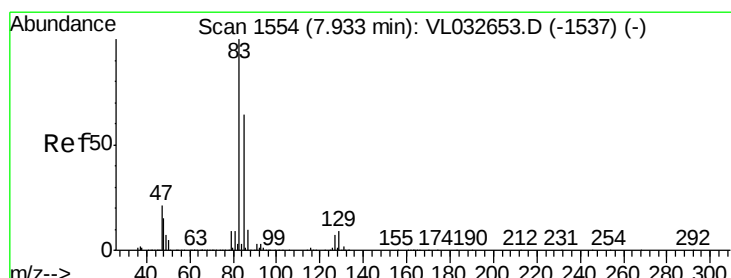
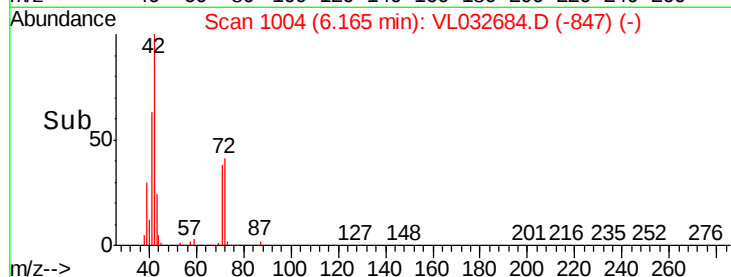
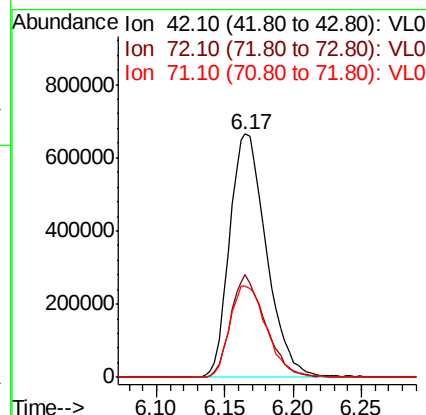
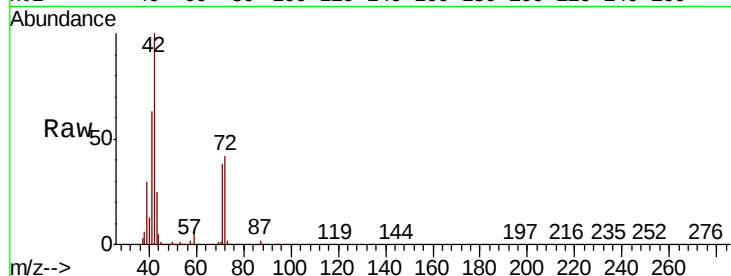
ClientSampleId :

VSTDCCC010EC

Tot Ion:	42	Resp:	1244591
Ion	Ratio	Lower	Upper
42	100		
72	39.9	32.4	48.6
71	37.9	31.3	46.9

Manual Integrations
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#42

Bromodichloromethane

Concen: 9.611 ppbv

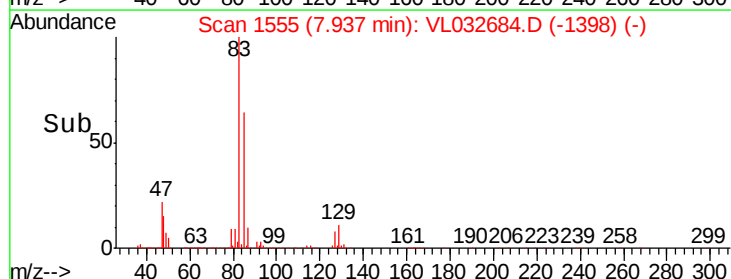
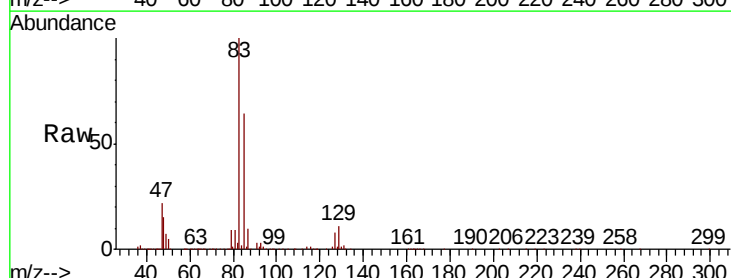
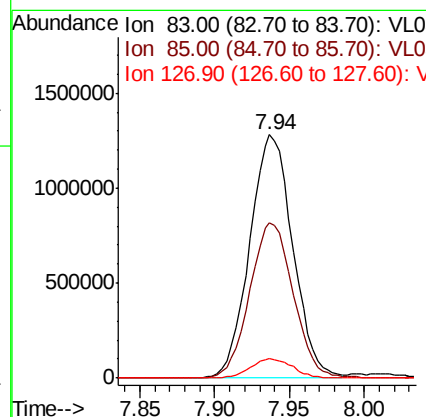
RT: 7.94 min Scan# 1555

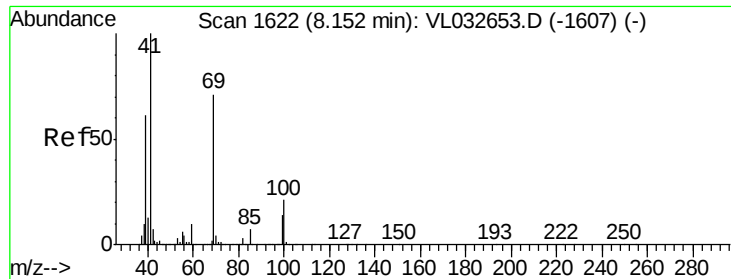
Delta R.T. 0.00 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

Tgt Ion:	83	Resp:	2565194
Ion	Ratio	Lower	Upper
83	100		
85	64.0	52.4	78.6
127	8.0	6.1	9.1





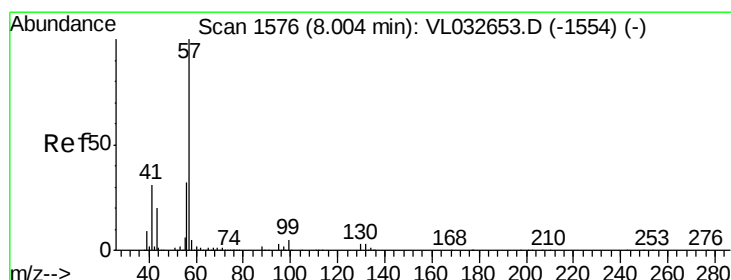
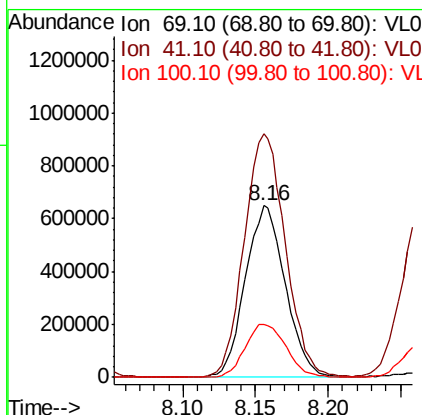
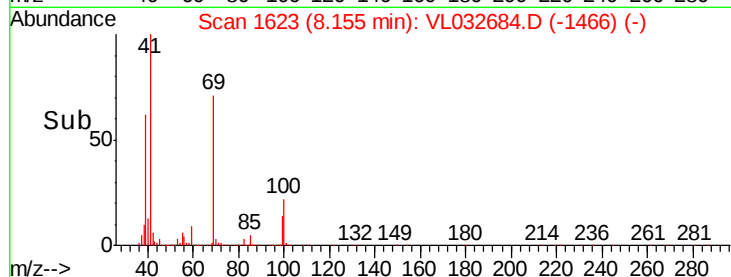
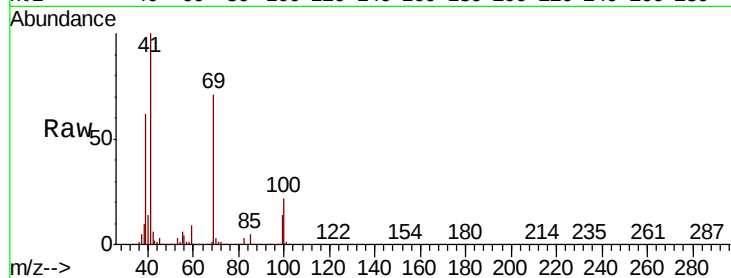
#43
Methvl Methacrylate
Concen: 10.942 ppbv
RT: 8.16 min Scan# 1623
Delta R.T. 0.00 min
Lab File: VL032684.D
Acq: 19 Oct 2018 14:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 69 Resp: 1245426
Ion Ratio Lower Upper
69 100
41 145.9 113.2 169.8
100 31.8 24.4 36.6

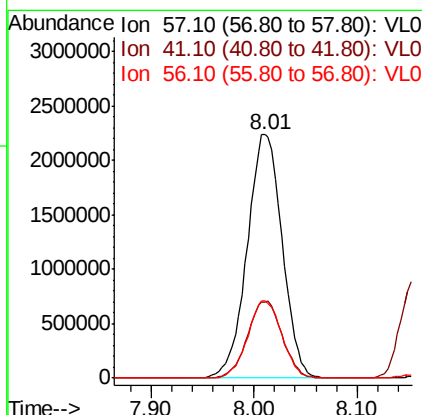
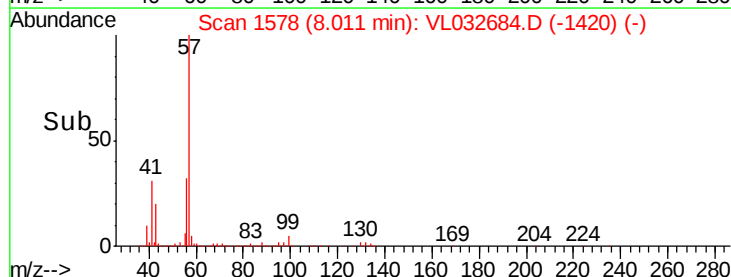
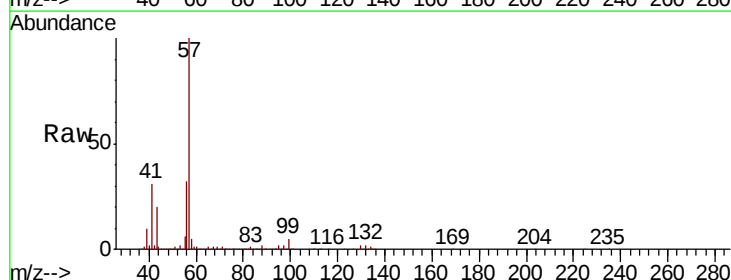
Manual Integrations
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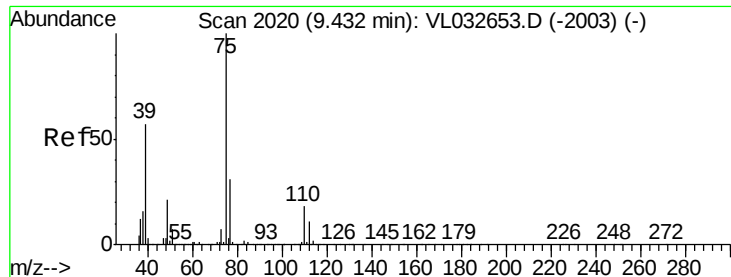
MMDadoda
10/24/2018 12:07:02 PM



#44
2,2,4-Trimethylpentane
Concen: 9.923 ppbv
RT: 8.01 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VL032684.D
Acq: 19 Oct 2018 14:55

Tgt Ion: 57 Resp: 5261143
Ion Ratio Lower Upper
57 100
41 31.4 24.7 37.1
56 31.1 25.0 37.4





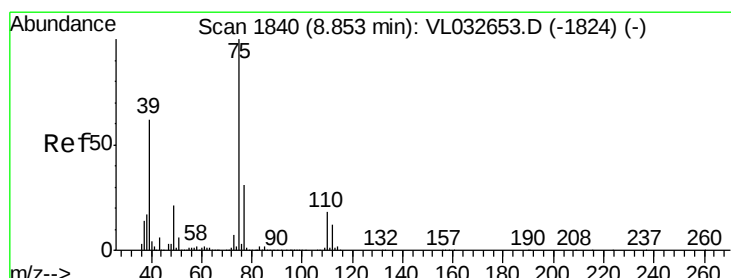
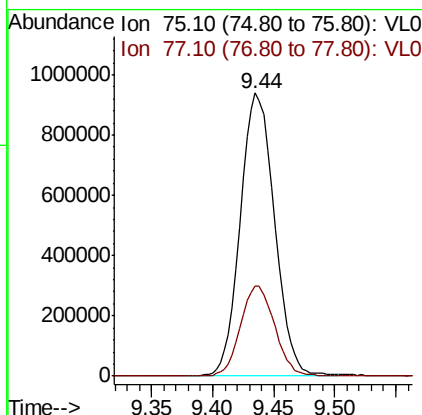
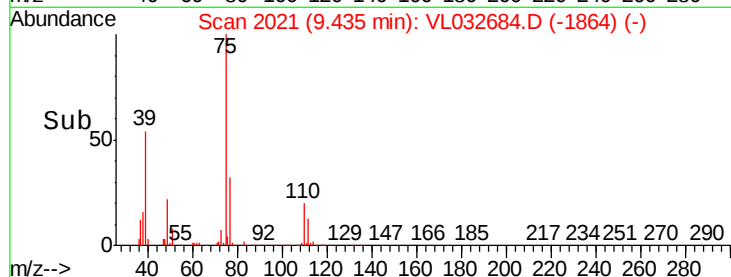
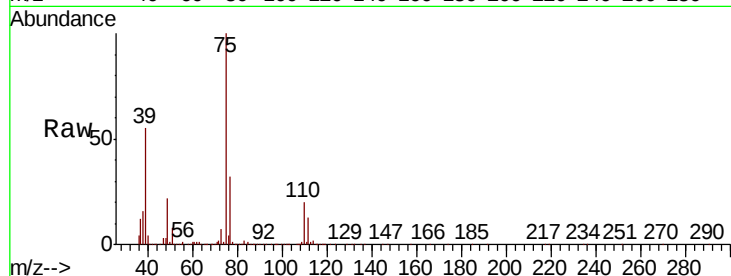
#45
t-1,3-Dichloropropene
Concen: 11.968 ppbv
RT: 9.44 min Scan# 2021
Delta R.T. 0.00 min
Lab File: VL032684.D
Acq: 19 Oct 2018 14:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 75 Resp: 1823498
Ion Ratio Lower Upper
75 100
77 32.0 25.3 37.9

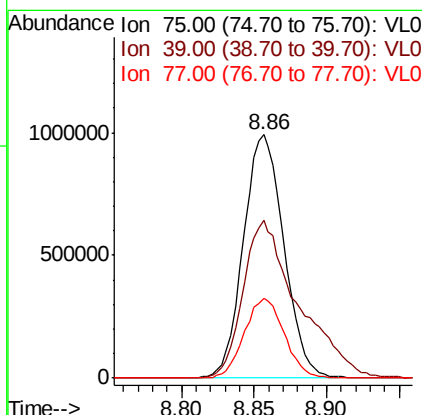
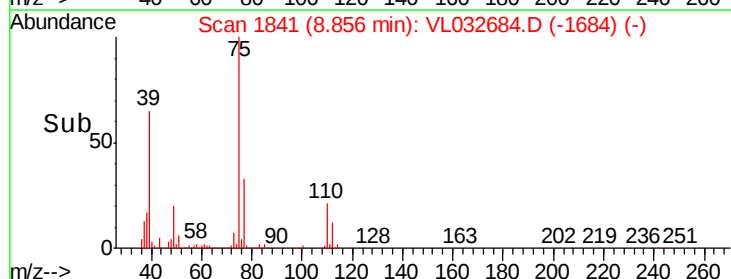
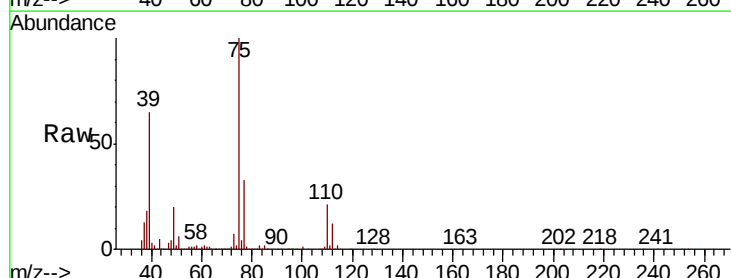
Manual Integrations
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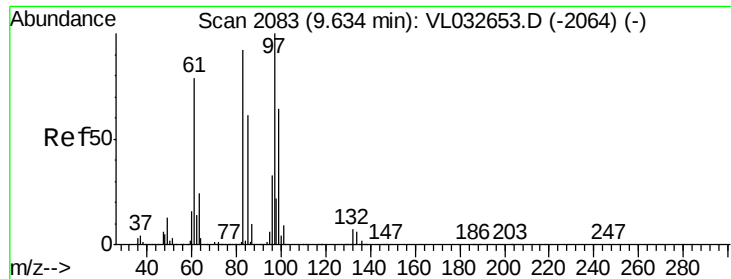
MMDadoda
10/24/2018 12:07:02 PM



#46
cis-1,3-Dichloropropene
Concen: 11.075 ppbv
RT: 8.86 min Scan# 1841
Delta R.T. 0.00 min
Lab File: VL032684.D
Acq: 19 Oct 2018 14:55

Tgt Ion: 75 Resp: 1927837
Ion Ratio Lower Upper
75 100
39 64.8 50.9 76.3
77 32.6 25.8 38.6





#47

1,1,2-Trichloroethane

Concen: 9.882 ppbv

RT: 9.64 min Scan# 2084

Delta R.T. 0.00 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 97 Resp: 1400415

Ion Ratio Lower Upper

97 100

83 92.0 73.5 110.3

85 58.6 45.8 68.6

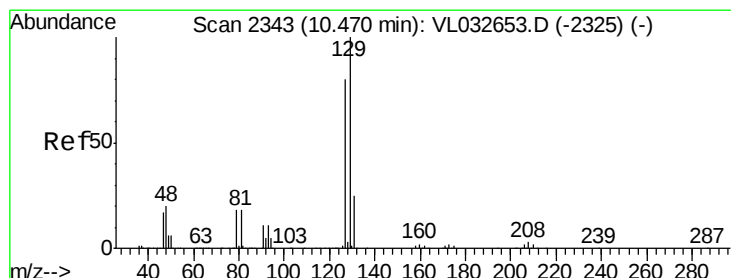
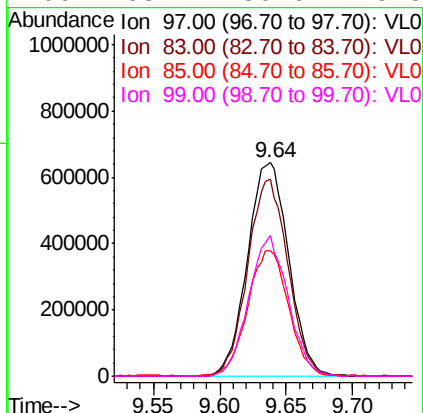
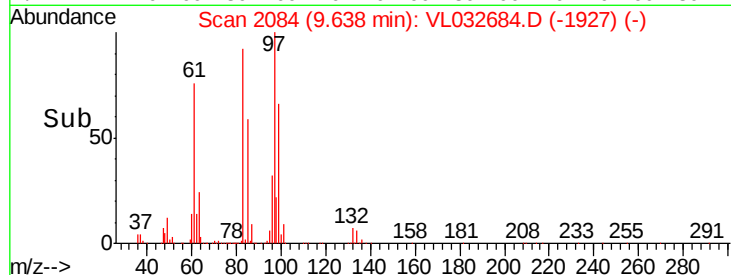
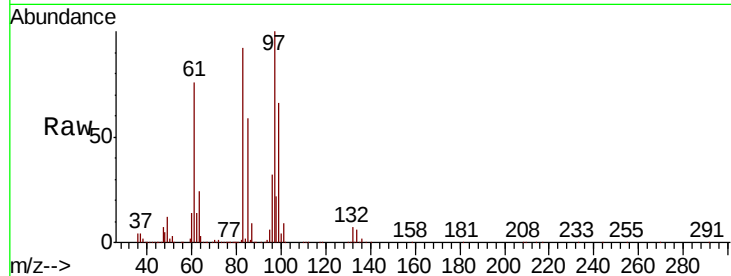
99 65.7 50.6 75.8

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#48

Dibromochloromethane

Concen: 9.640 ppbv

RT: 10.47 min Scan# 2343

Delta R.T. 0.00 min

Lab File: VL032684.D

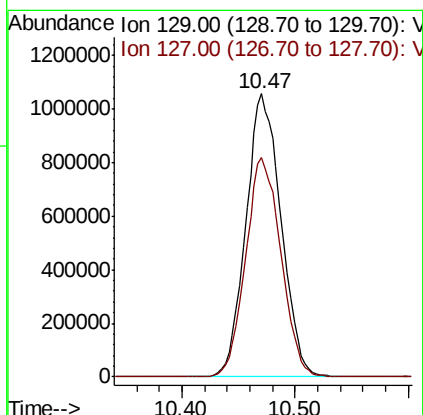
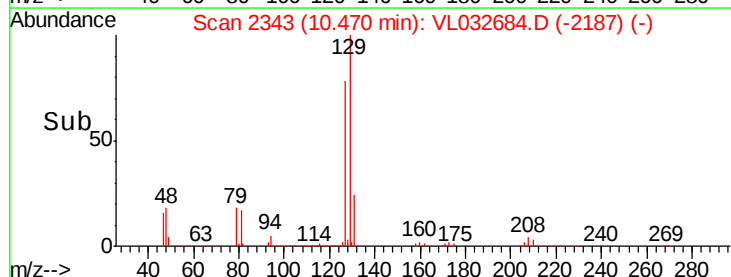
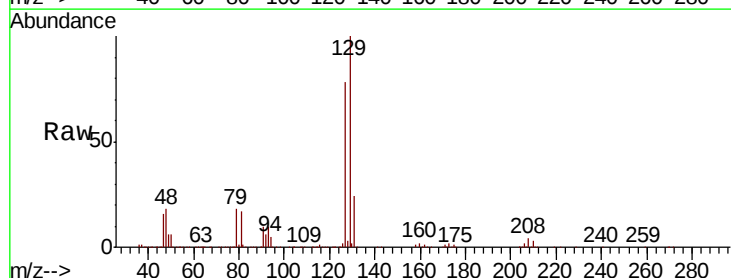
Acq: 19 Oct 2018 14:55

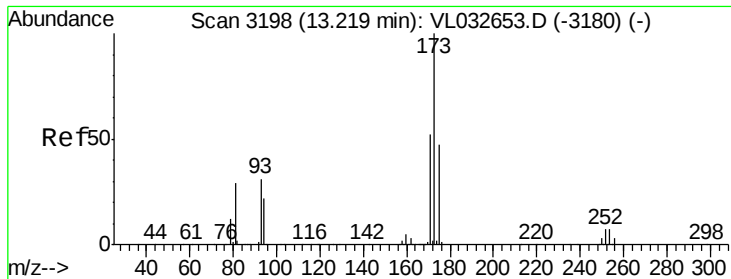
Tgt Ion: 129 Resp: 2277012

Ion Ratio Lower Upper

129 100

127 78.2 39.1 117.5





#49

Bromoform

Concen: 9.905 ppbv

RT: 13.22 min Scan# 3199

Delta R.T. 0.00 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 1838467

Ion Ratio Lower Upper

173 100

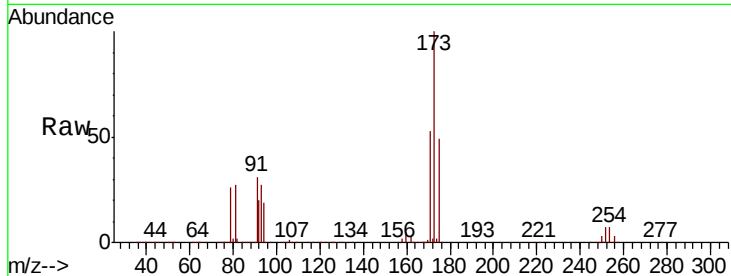
175 48.2 39.0 58.4

171 51.2 42.2 63.2

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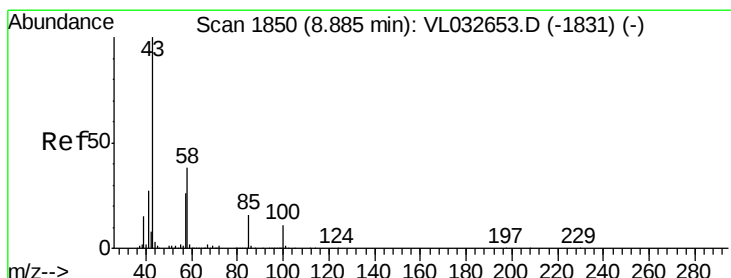
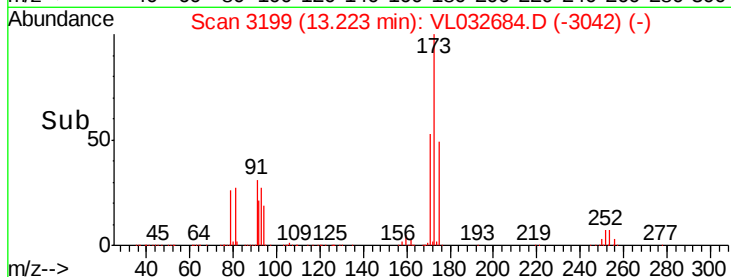
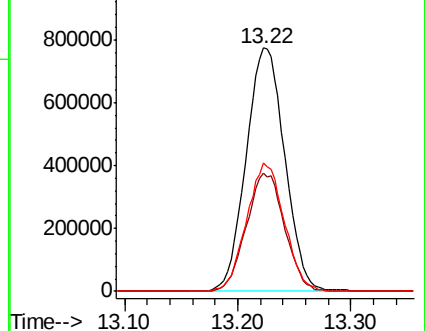
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.042 ppbv

RT: 8.89 min Scan# 1851

Delta R.T. 0.00 min

Lab File: VL032684.D

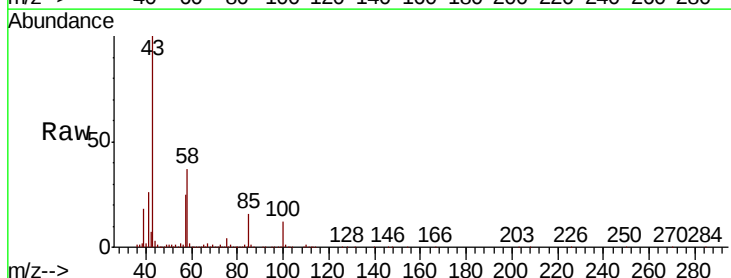
Acq: 19 Oct 2018 14:55

Tgt Ion: 43 Resp: 3049992

Ion Ratio Lower Upper

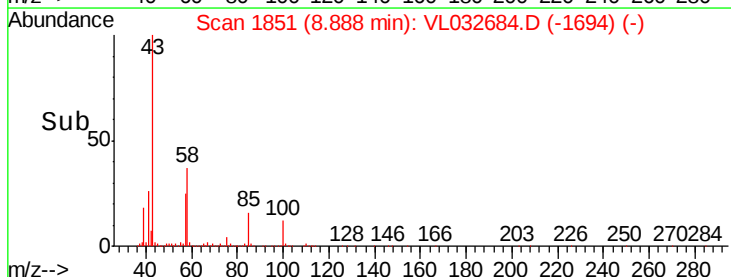
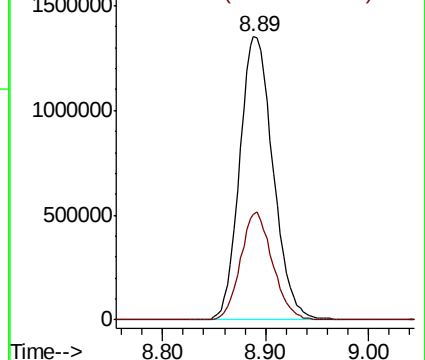
43 100

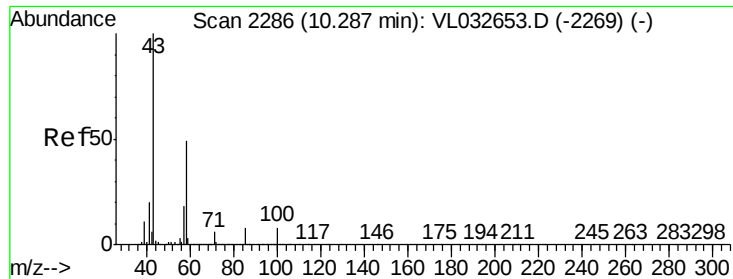
58 36.5 29.7 44.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





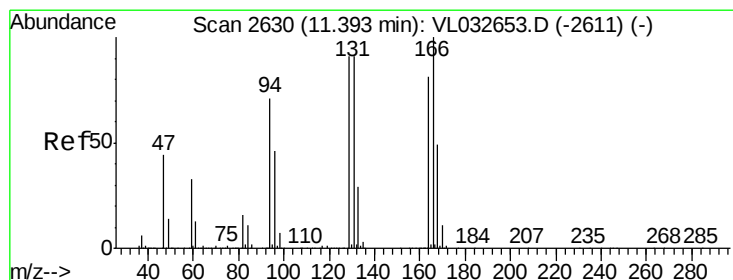
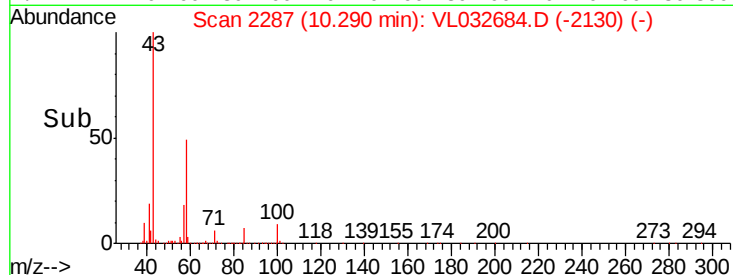
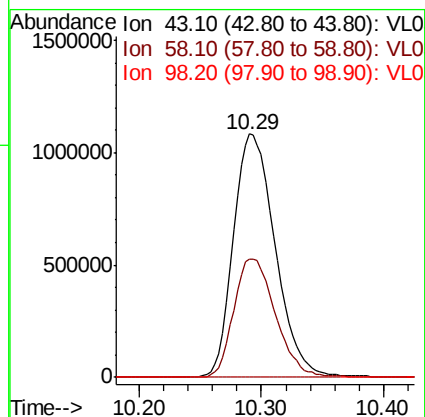
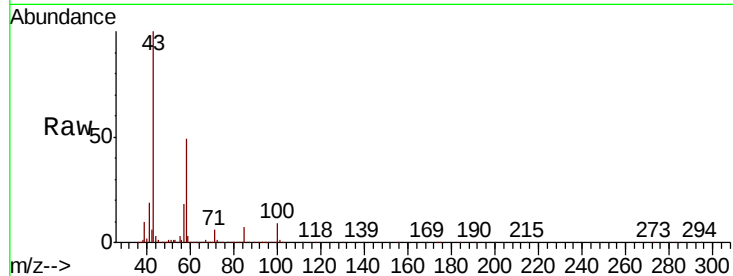
#51
2-Hexanone
Concen: 11.375 ppbv
RT: 10.29 min Scan# 2287
Delta R.T. 0.00 min
Lab File: VL032684.D
Acq: 19 Oct 2018 14:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.8	40.4	60.6
98	0.4	0.4	0.6

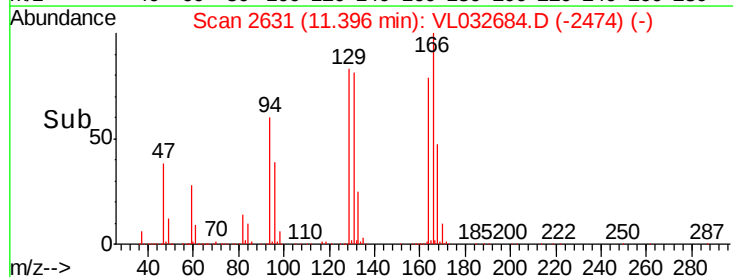
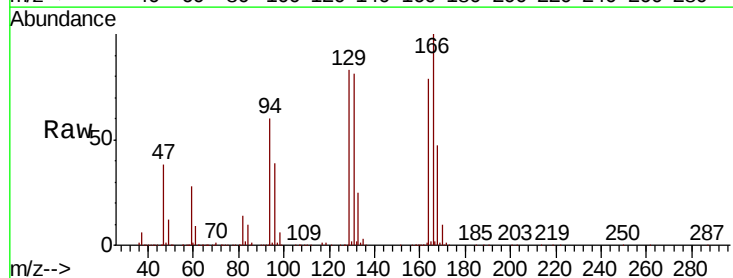
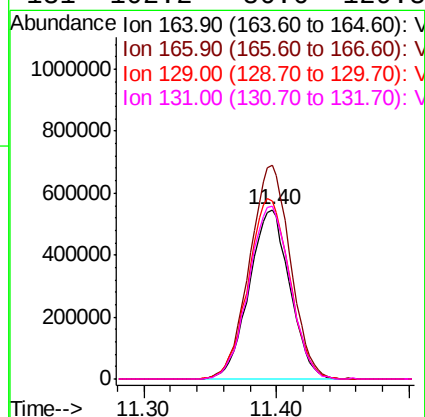
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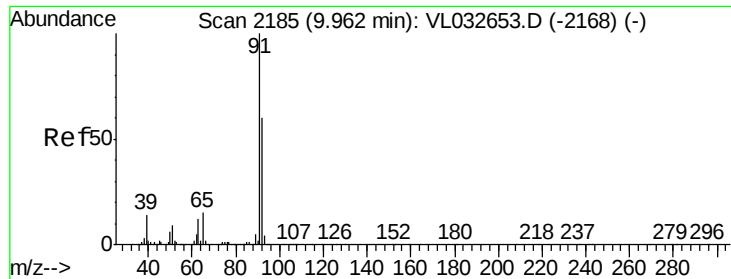
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#52
Tetrachloroethene
Concen: 10.762 ppbv
RT: 11.40 min Scan# 2631
Delta R.T. 0.00 min
Lab File: VL032684.D
Acq: 19 Oct 2018 14:55

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.3	100.5	150.7
129	105.5	90.0	135.0
131	102.2	86.6	129.8





#53

Toluene

Concen: 11.006 ppbv

RT: 9.97 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 3918082

Ion Ratio Lower Upper

91 100

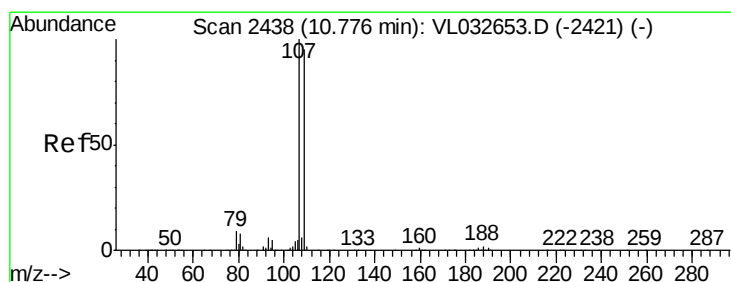
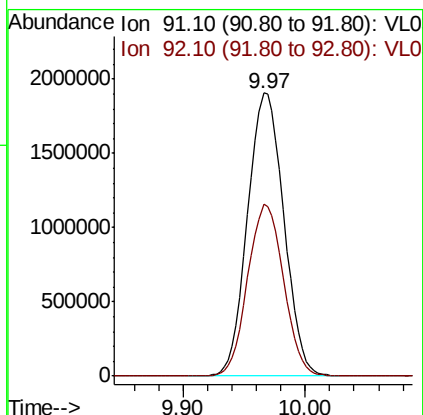
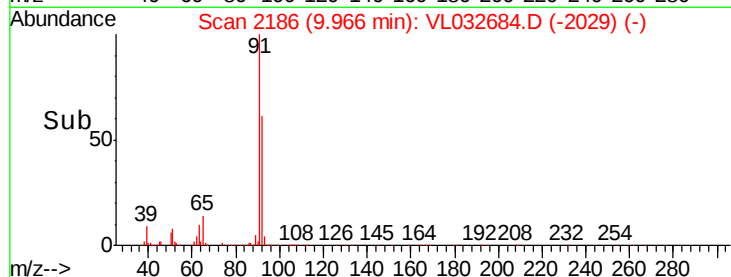
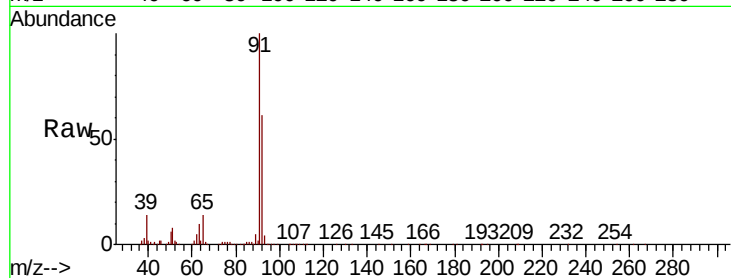
92 60.1 48.4 72.6

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#54

1,2-Dibromoethane

Concen: 9.825 ppbv

RT: 10.78 min Scan# 2439

Delta R.T. 0.00 min

Lab File: VL032684.D

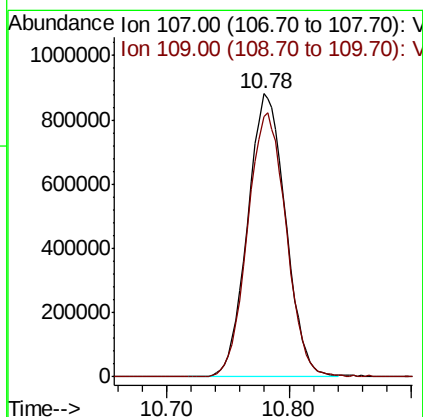
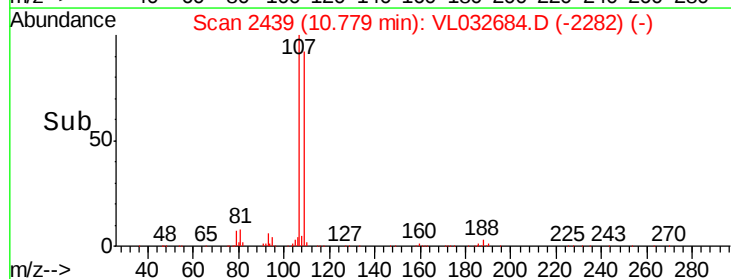
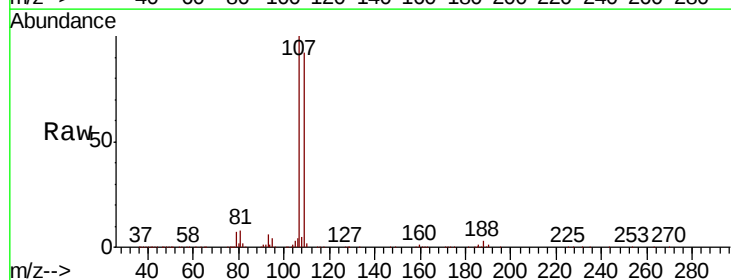
Acq: 19 Oct 2018 14:55

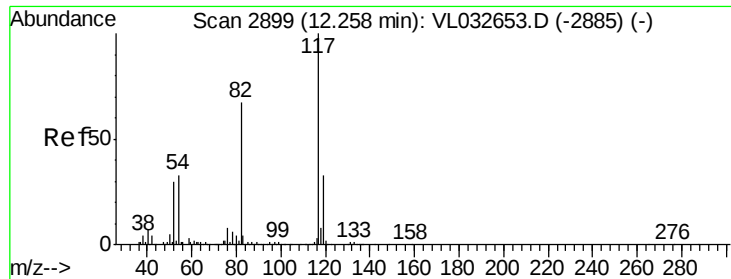
Tgt Ion: 107 Resp: 1892316

Ion Ratio Lower Upper

107 100

109 91.8 75.3 112.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.26 min Scan# 2900

Delta R.T. 0.00 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 3842110

Ion Ratio Lower Upper

117 100

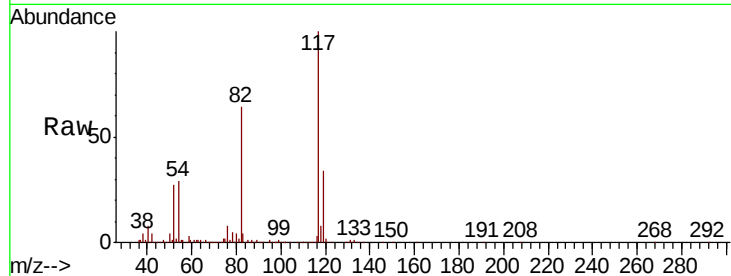
82 63.8 52.7 79.1

119 32.9 26.7 40.1

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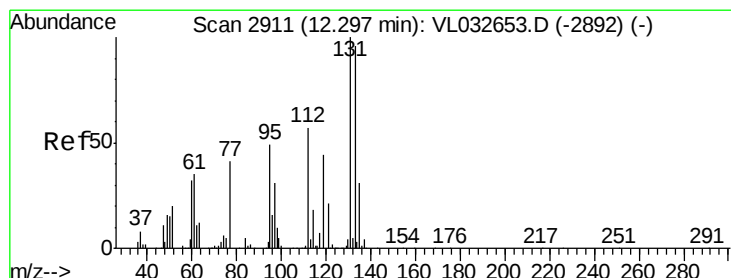
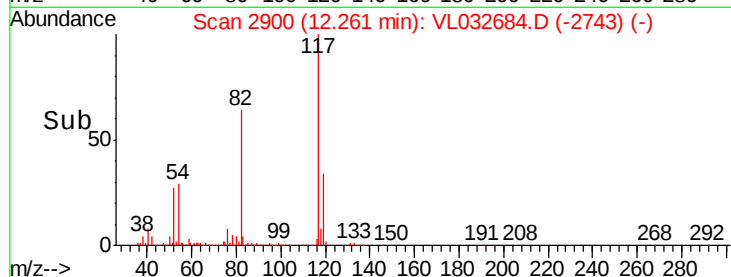
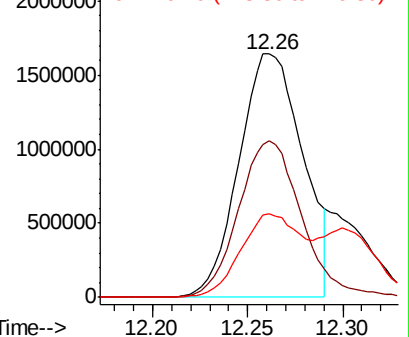
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 9.329 ppbv

RT: 12.30 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

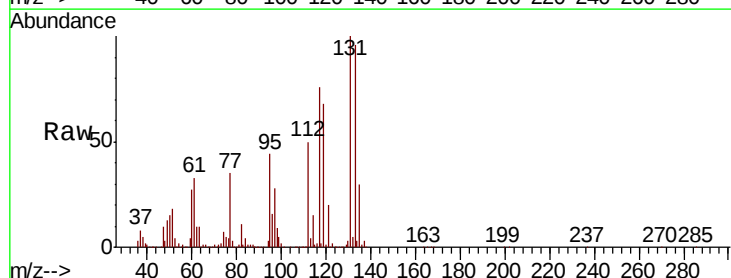
Tgt Ion:131 Resp: 1567313

Ion Ratio Lower Upper

131 100

133 95.9 75.4 113.2

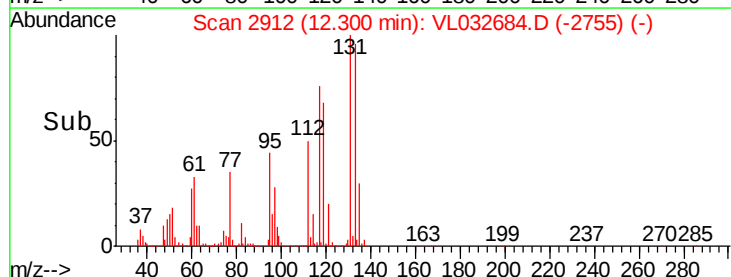
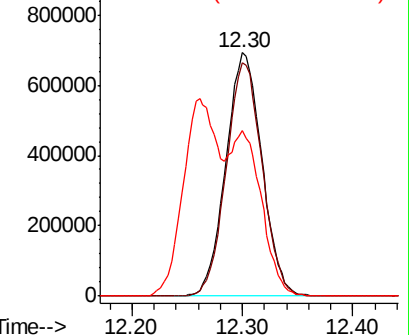
119 65.1 49.1 73.7

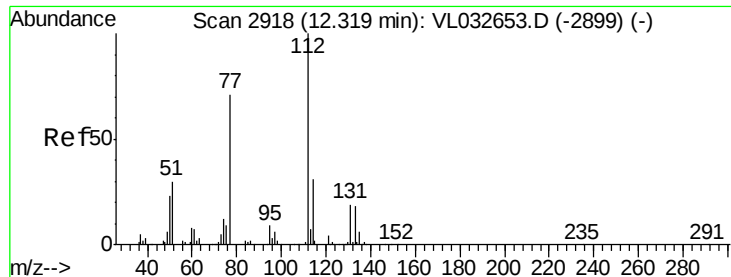


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 9.656 ppbv

RT: 12.33 min Scan# 2920

Delta R.T. 0.01 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:112 Resp: 2728470

Ion Ratio Lower Upper

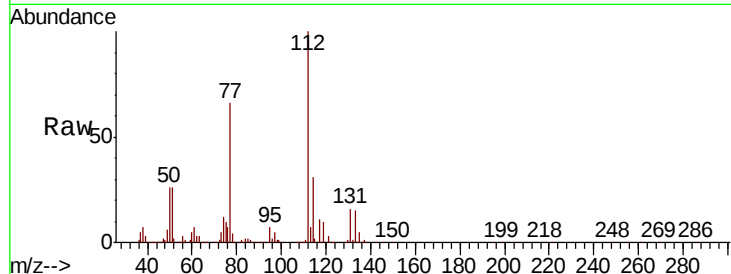
112 100

77 65.9 56.8 85.2

114 31.0 30.3 37.1

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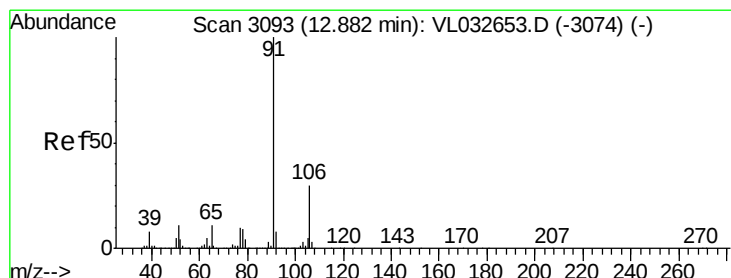
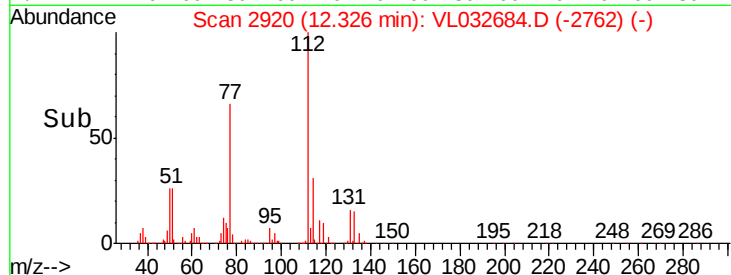
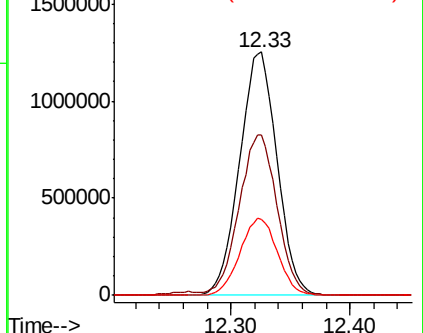
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.827 ppbv

RT: 12.89 min Scan# 3094

Delta R.T. 0.00 min

Lab File: VL032684.D

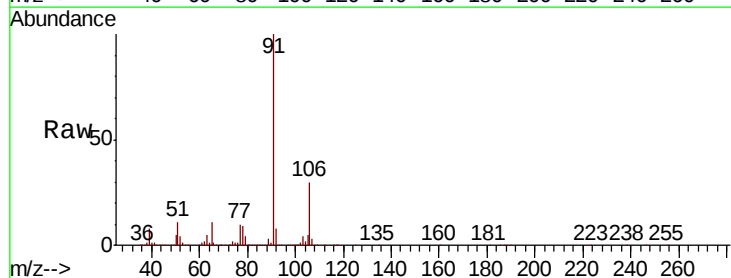
Acq: 19 Oct 2018 14:55

Tgt Ion: 91 Resp: 4832454

Ion Ratio Lower Upper

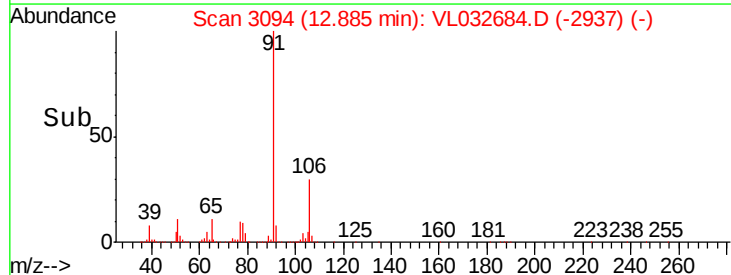
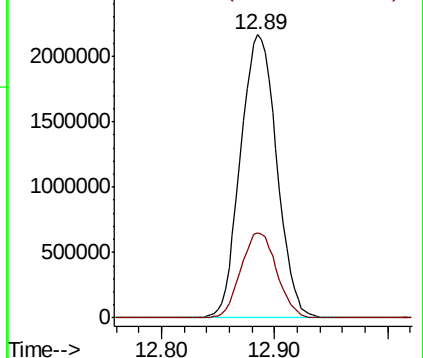
91 100

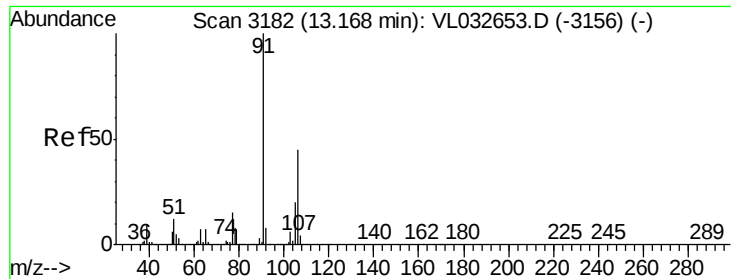
106 30.2 24.2 36.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 20.217 ppbv m

RT: 13.17 min Scan# 3183

Delta R.T. 0.00 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 8035566

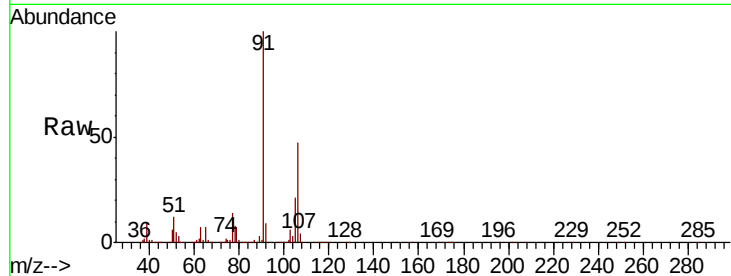
Ion Ratio Lower Upper

91 100

106 45.7 35.9 53.9

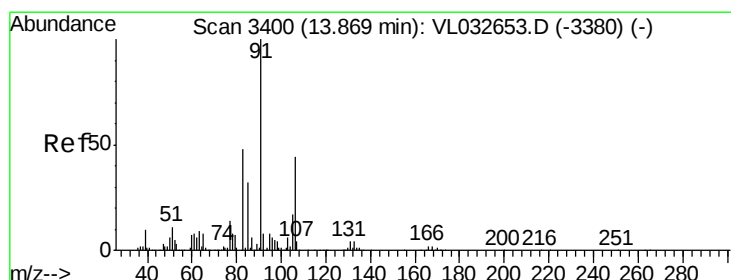
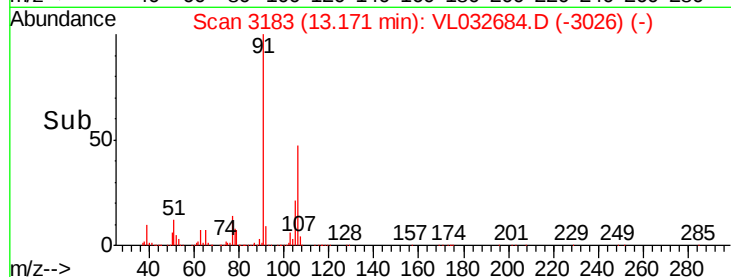
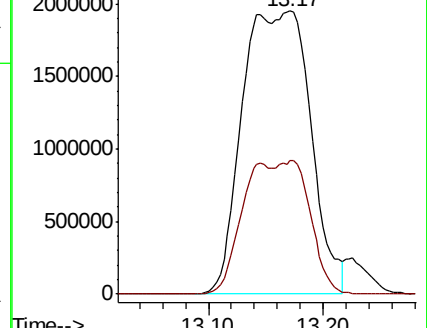
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 9.989 ppbv

RT: 13.87 min Scan# 3400

Delta R.T. 0.00 min

Lab File: VL032684.D

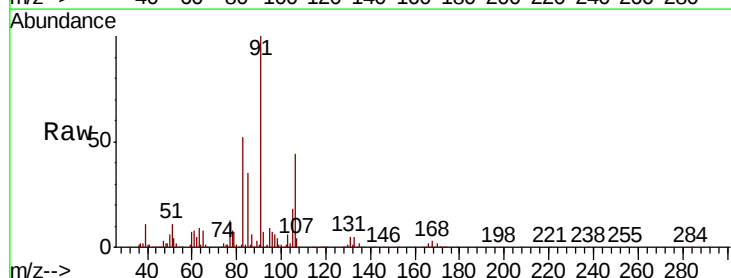
Acq: 19 Oct 2018 14:55

Tgt Ion: 91 Resp: 3829821

Ion Ratio Lower Upper

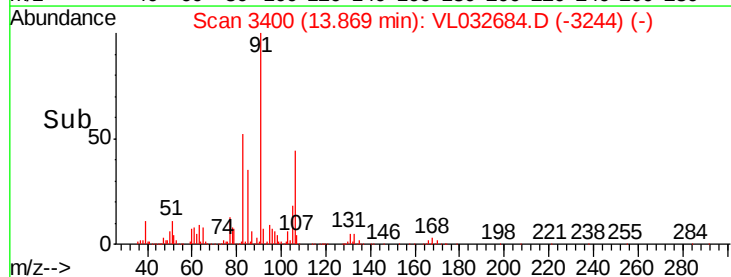
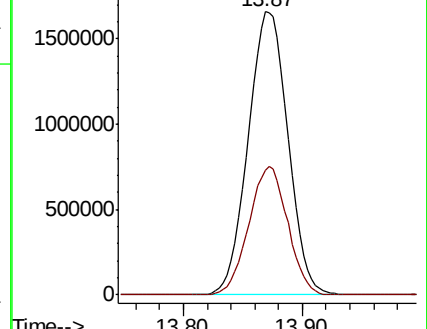
91 100

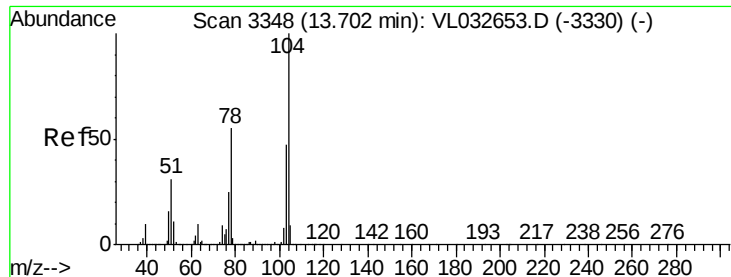
106 44.5 22.1 66.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 11.437 ppbv

RT: 13.71 min Scan# 3350

Delta R.T. 0.01 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 2940207

Ion Ratio Lower Upper

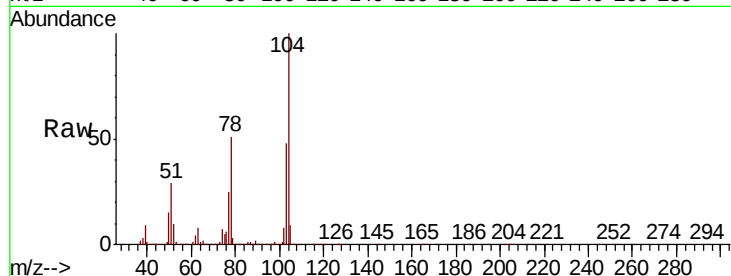
104 100

78 51.4 42.8 64.2

103 47.7 37.4 56.0

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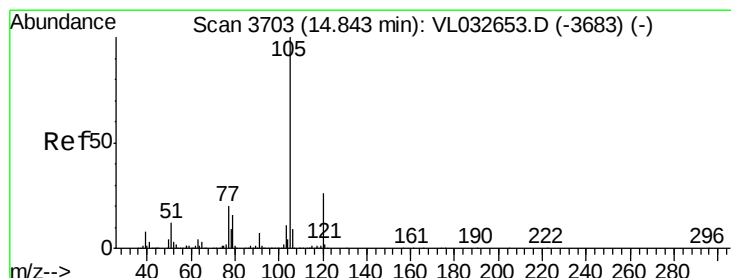
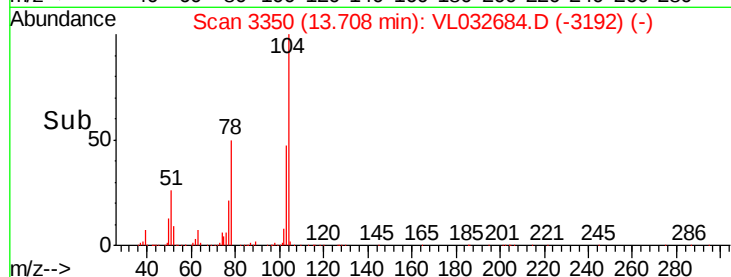
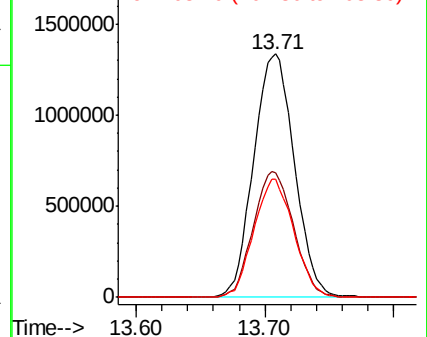
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.821 ppbv

RT: 14.85 min Scan# 3704

Delta R.T. 0.00 min

Lab File: VL032684.D

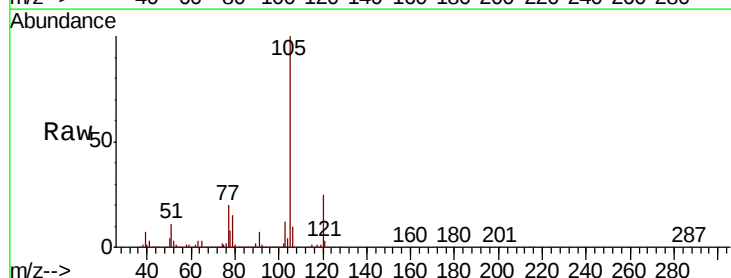
Acq: 19 Oct 2018 14:55

Tgt Ion:105 Resp: 5329351

Ion Ratio Lower Upper

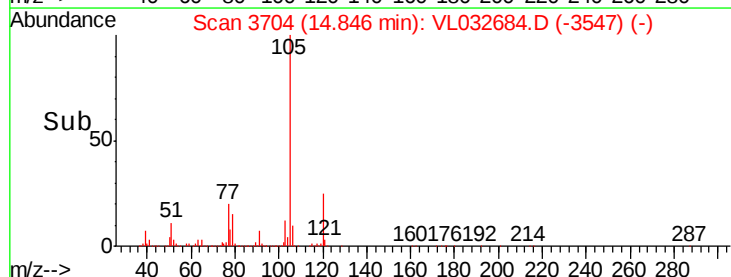
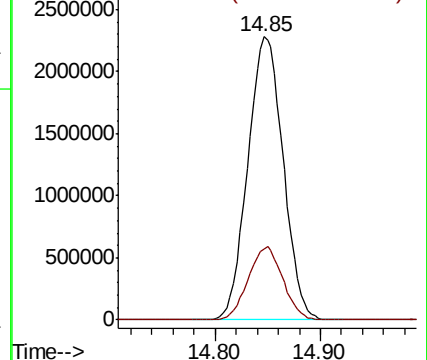
105 100

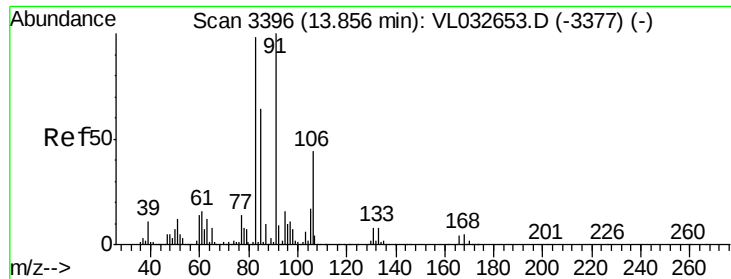
120 25.4 20.5 30.7



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: 8.656 ppbv

RT: 13.86 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 2600180

Ion Ratio Lower Upper

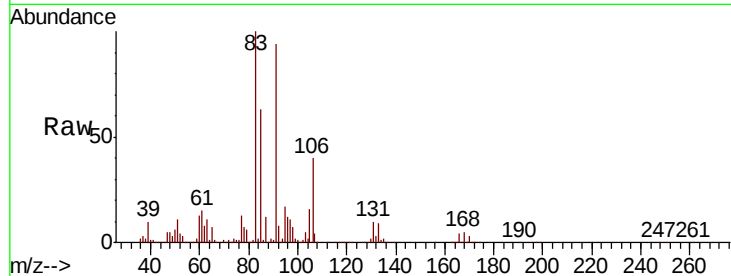
83 100

131 9.4 4.3 12.9

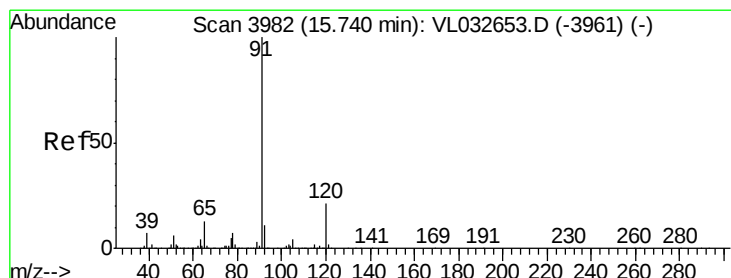
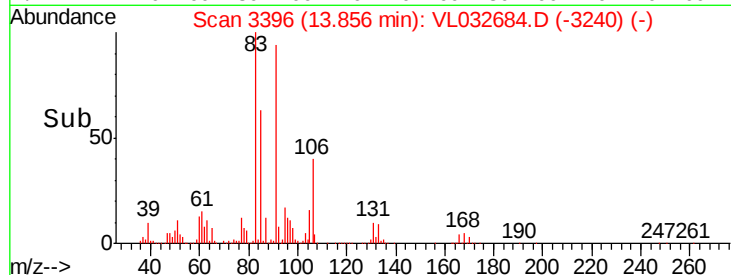
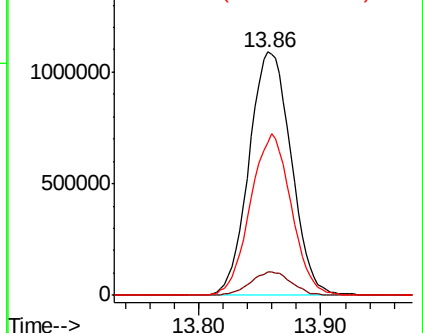
85 64.8 32.3 96.9

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Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 10.163 ppbv

RT: 15.75 min Scan# 3984

Delta R.T. 0.01 min

Lab File: VL032684.D

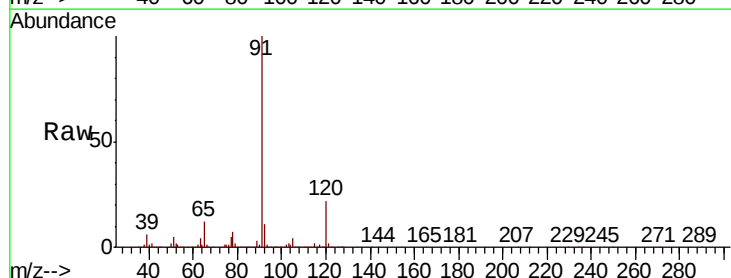
Acq: 19 Oct 2018 14:55

Tgt Ion:120 Resp: 1370545

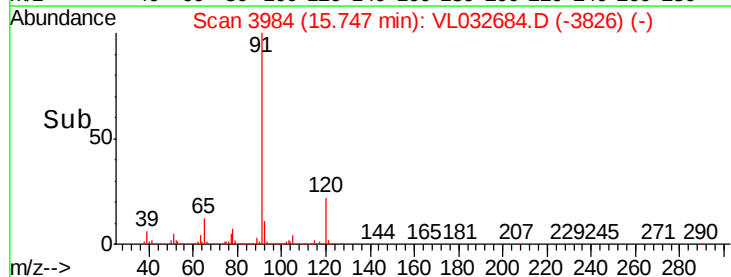
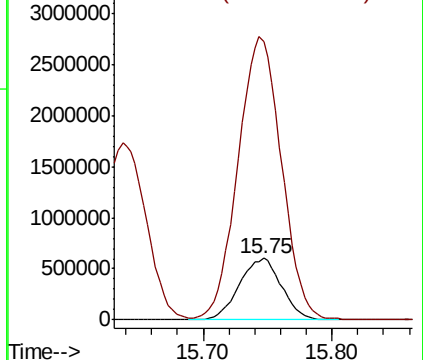
Ion Ratio Lower Upper

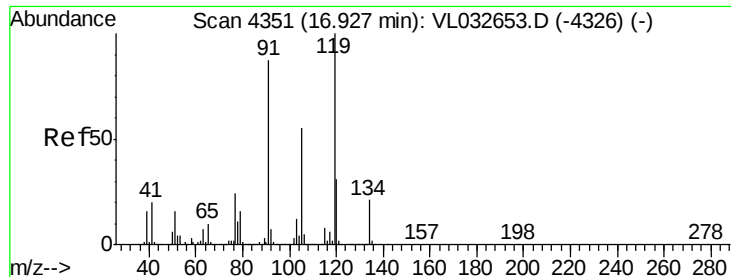
120 100

91 475.3 390.2 585.2



Abundance Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 9.822 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. 0.00 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 119 Resp: 4539196

Ion Ratio Lower Upper

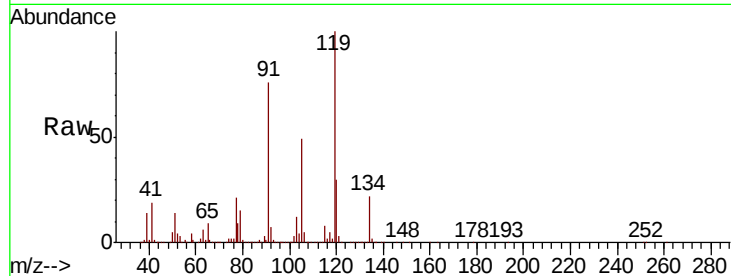
119 100

91 80.1 67.8 101.8

134 20.0 15.8 23.8

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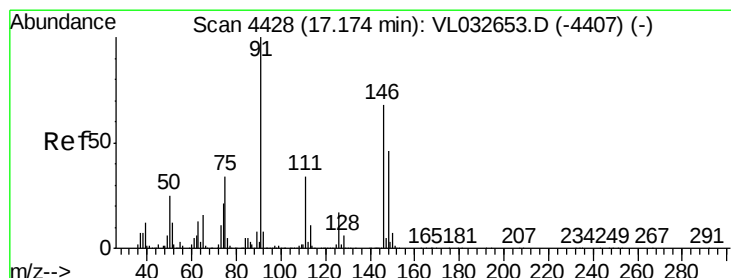
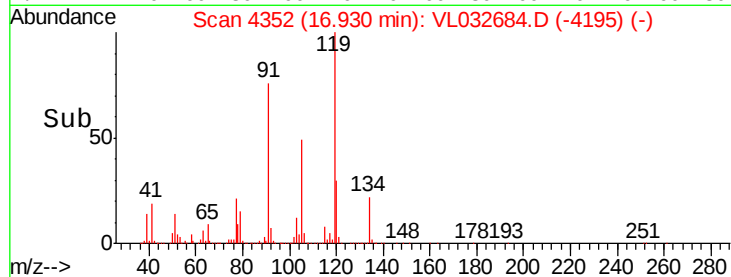
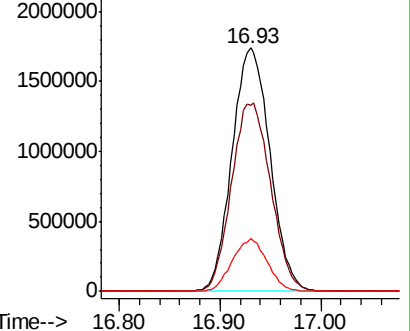
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 11.025 ppbv

RT: 17.18 min Scan# 4429

Delta R.T. 0.00 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

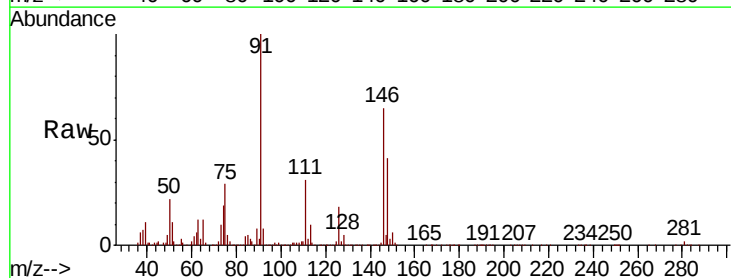
Tgt Ion: 91 Resp: 2630780

Ion Ratio Lower Upper

91 100

126 17.7 13.9 20.9

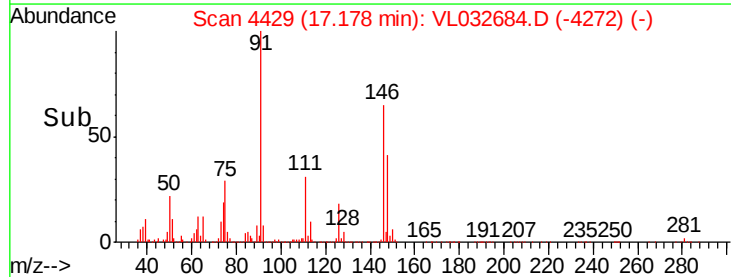
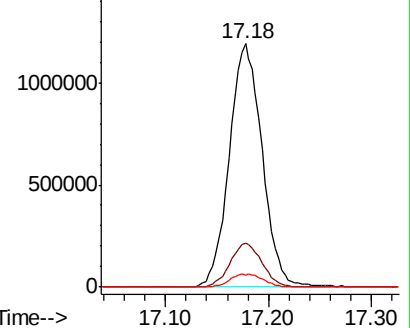
128 5.6 4.3 6.5

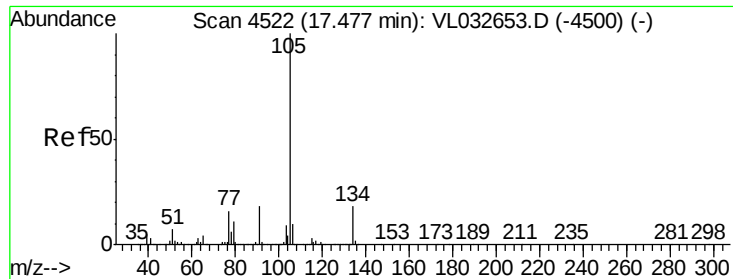


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.706 ppbv

RT: 17.48 min Scan# 4522

Delta R.T. 0.00 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 6379192

Ion Ratio Lower Upper

105 100

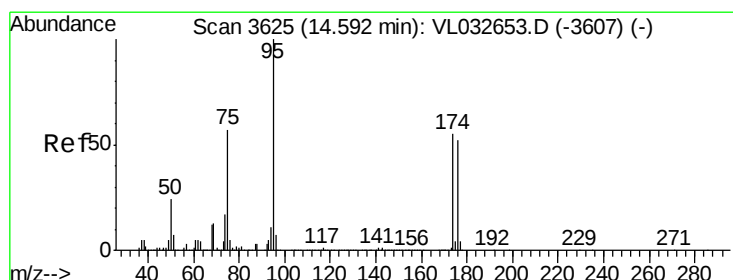
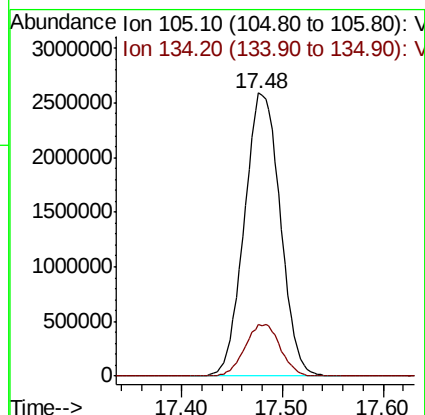
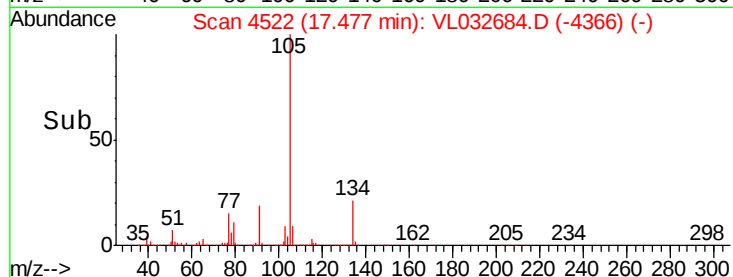
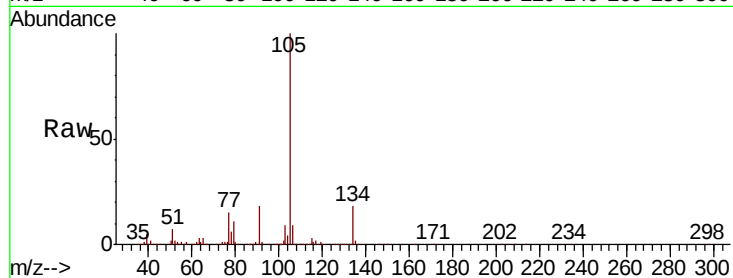
134 18.0 14.2 21.2

Manual Integrations

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.114 ppbv

RT: 14.60 min Scan# 3627

Delta R.T. 0.01 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

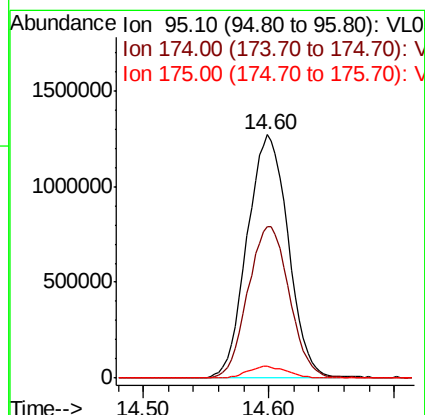
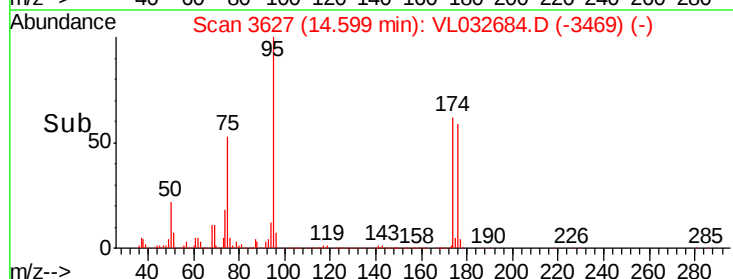
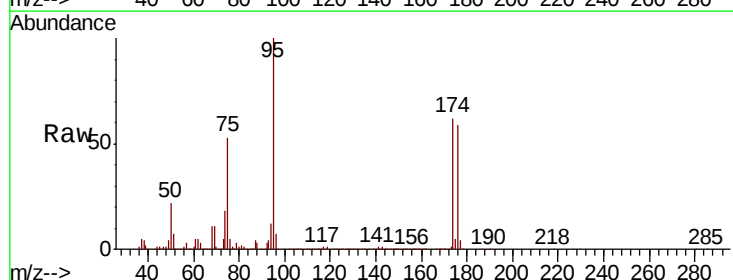
Tgt Ion: 95 Resp: 2893296

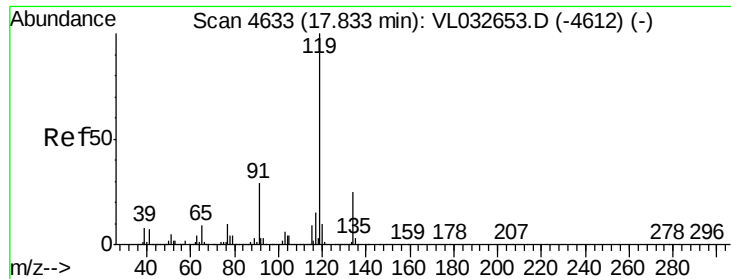
Ion Ratio Lower Upper

95 100

174 63.4 46.0 69.0

175 4.7 3.4 5.0





#69

p-Isopropyltoluene

Concen: 9.926 ppbv

RT: 17.84 min Scan# 4634

Delta R.T. 0.00 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 119 Resp: 5170173

Ion Ratio Lower Upper

119 100

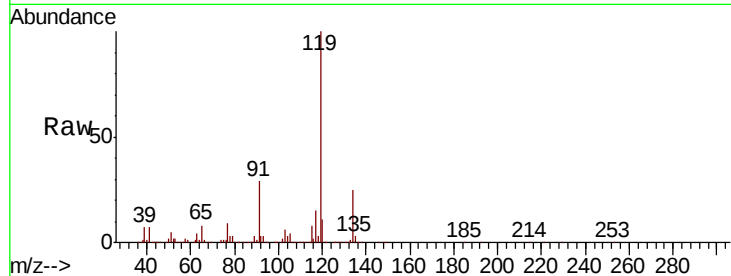
134 25.3 20.2 30.2

91 28.5 24.0 36.0

Manual Integrations
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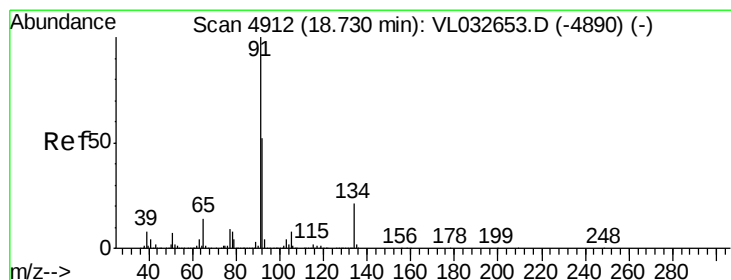
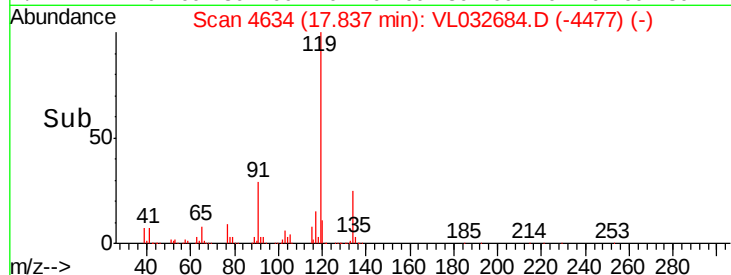
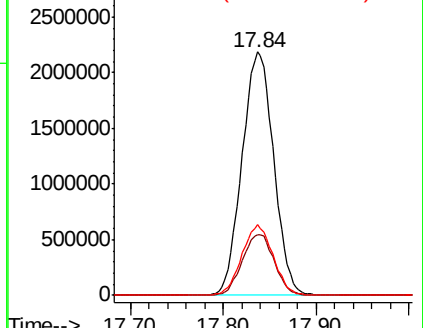
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Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 9.778 ppbv

RT: 18.74 min Scan# 4914

Delta R.T. 0.01 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

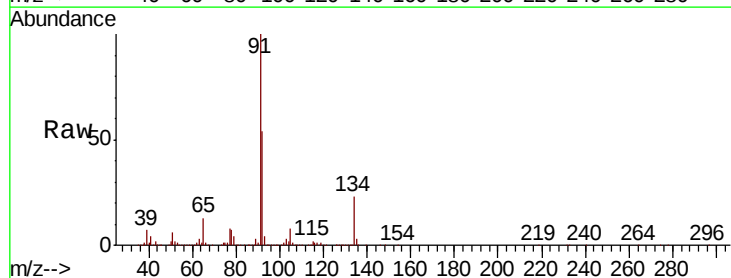
Tgt Ion: 91 Resp: 5243103

Ion Ratio Lower Upper

91 100

92 53.4 43.0 64.4

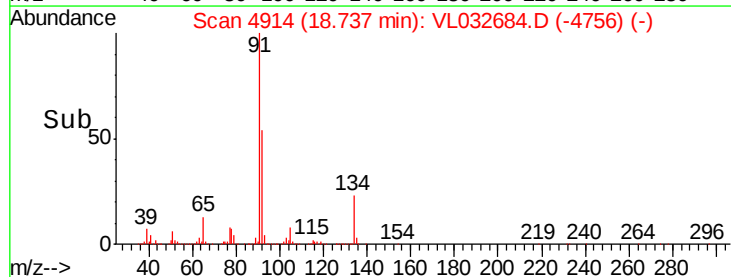
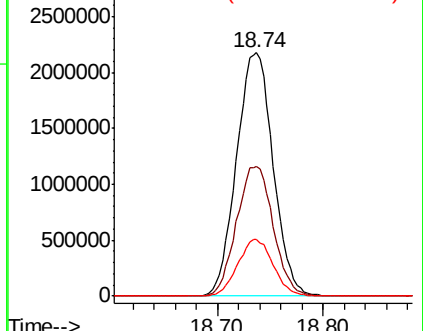
134 22.5 17.0 25.6

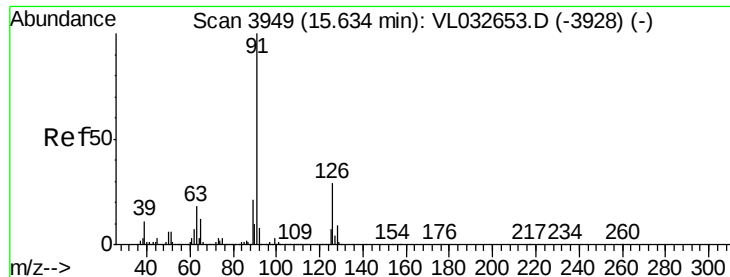


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 10.332 ppbv

RT: 15.64 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 3984496

Ion Ratio Lower Upper

91 100

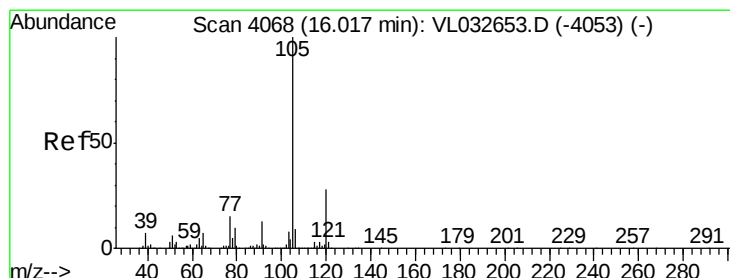
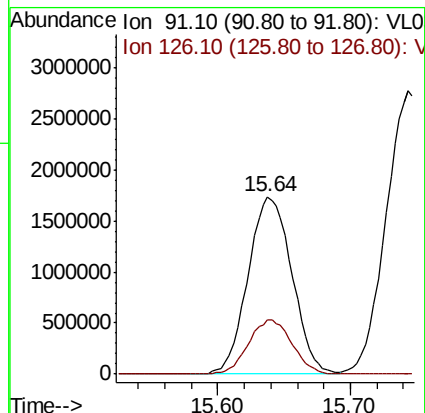
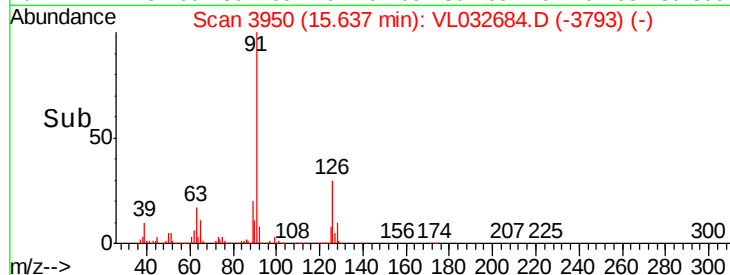
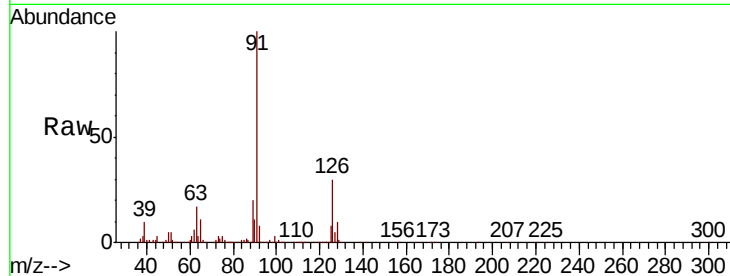
126 30.5 11.8 47.4

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#72

4-Ethyltoluene

Concen: 10.645 ppbv

RT: 16.02 min Scan# 4070

Delta R.T. 0.01 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

Tgt Ion: 105 Resp: 4346974

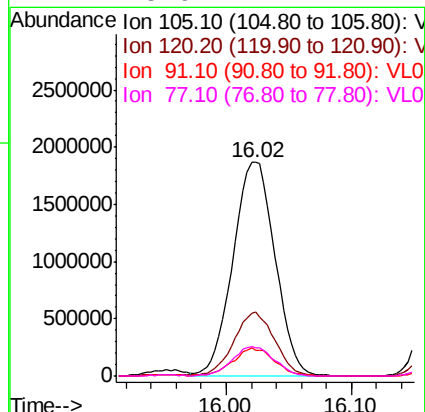
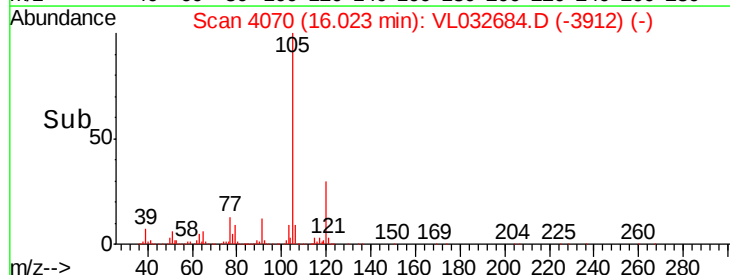
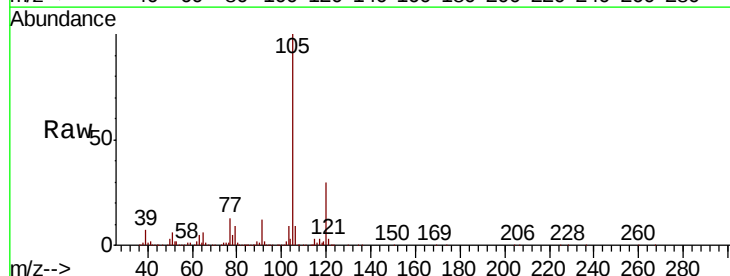
Ion Ratio Lower Upper

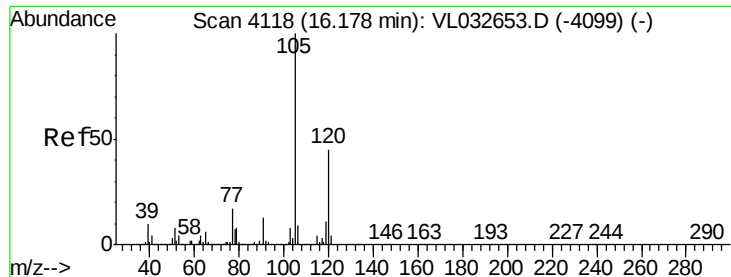
105 100

120 28.9 23.7 35.5

91 13.0 10.4 15.6

77 13.6 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 10.149 ppbv

RT: 16.18 min Scan# 4119

Delta R.T. 0.00 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 4036683

Ion Ratio Lower Upper

105 100

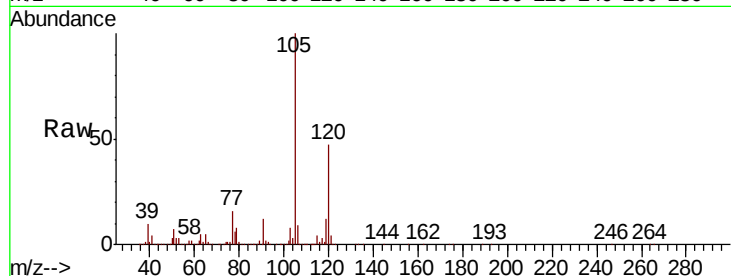
120 46.8 35.4 53.2

Manual Integrations

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

2000000

1500000

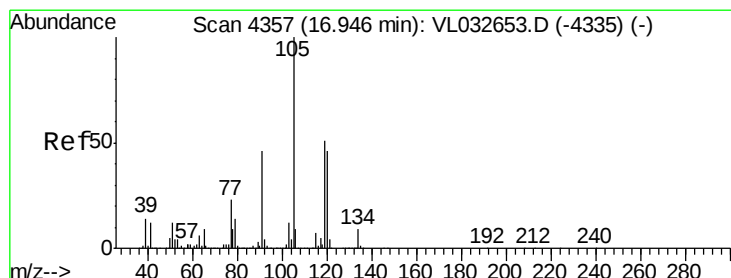
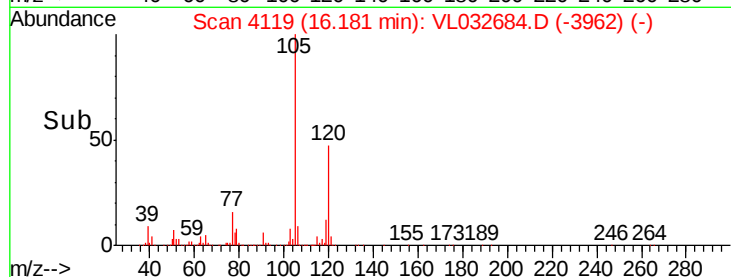
1000000

500000

0

16.10 16.20

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 9.650 ppbv

RT: 16.95 min Scan# 4358

Delta R.T. 0.00 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

Tgt Ion:105 Resp: 4098848

Ion Ratio Lower Upper

105 100

120 46.6 35.8 53.8

91 45.1 33.2 49.8

77 20.7 16.2 24.4

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

2500000

2000000

1500000

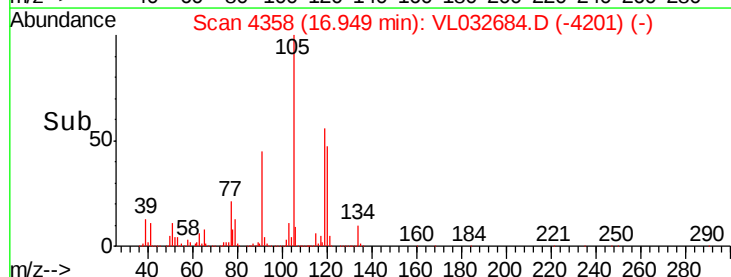
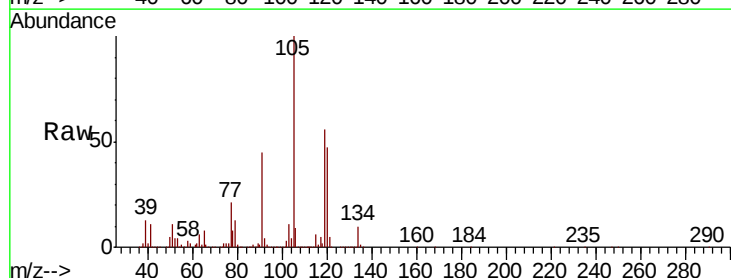
1000000

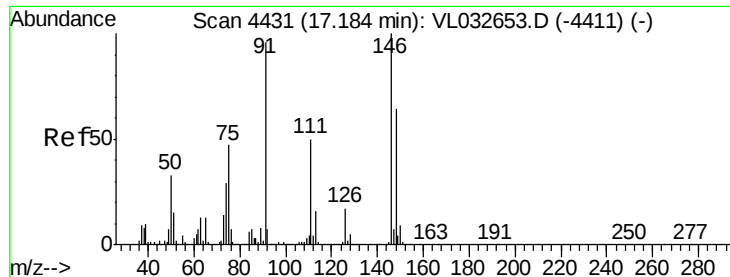
500000

0

16.90 17.00

Time-->





#75

1,3-Dichlorobenzene

Concen: 9.326 ppbv

RT: 17.19 min Scan# 4432

Delta R.T. 0.00 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 2278038

Ion Ratio Lower Upper

146 100

111 47.2 24.4 73.2

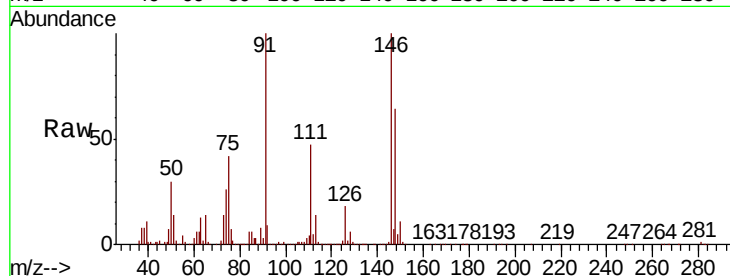
148 64.2 31.9 95.9

Manual Integrations

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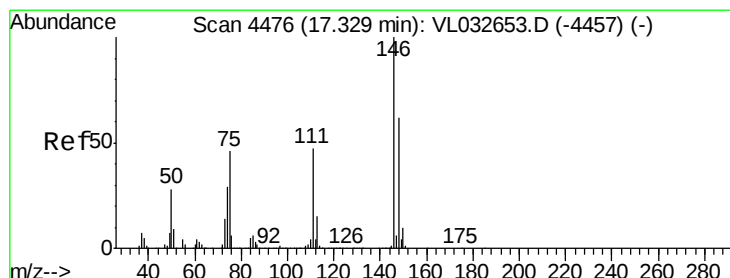
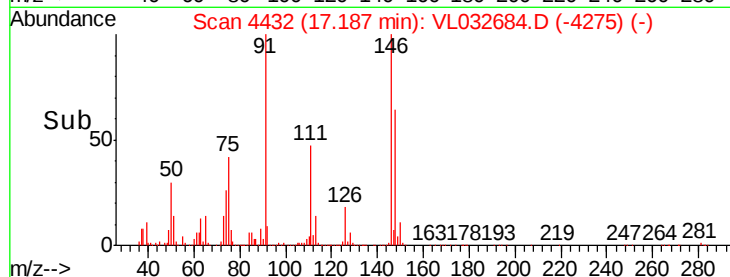
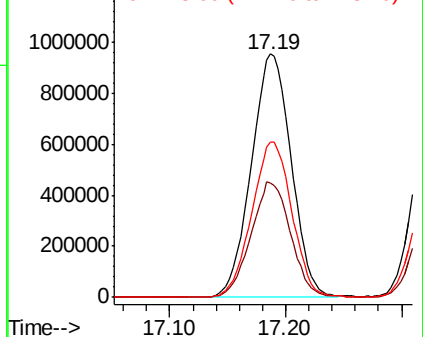


Abundance

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



#76

1,4-Dichlorobenzene

Concen: 10.036 ppbv

RT: 17.33 min Scan# 4477

Delta R.T. 0.00 min

Lab File: VL032684.D

Acq: 19 Oct 2018 14:55

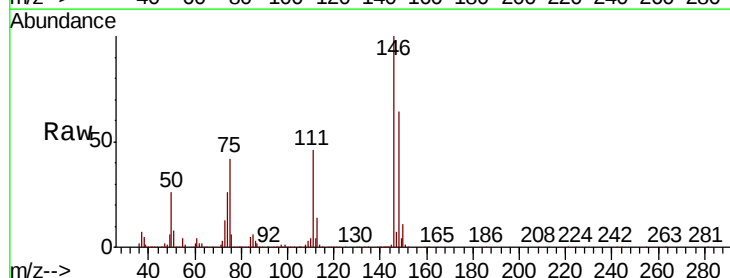
Tgt Ion:146 Resp: 2262083

Ion Ratio Lower Upper

146 100

111 45.2 23.7 71.1

148 65.0 32.1 96.3

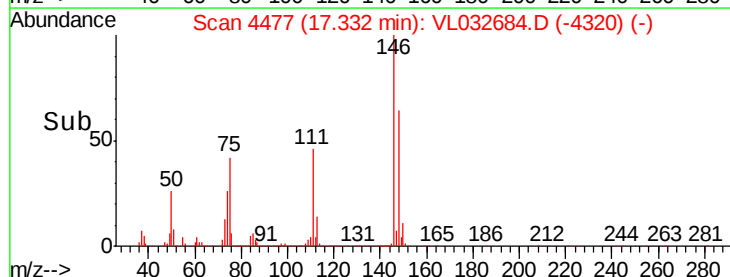
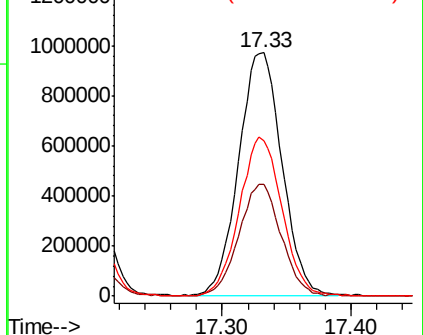


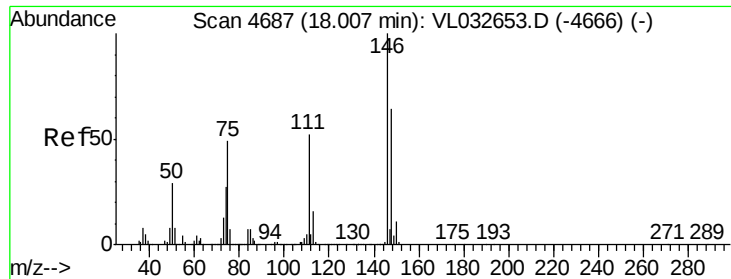
Abundance

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





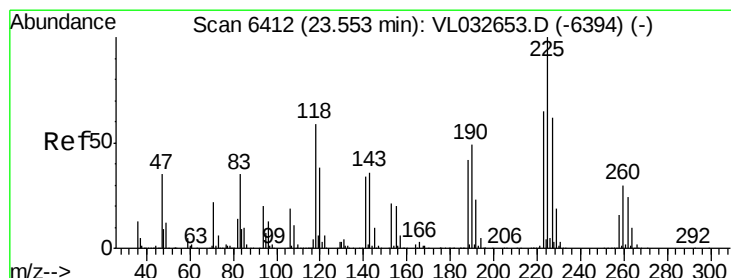
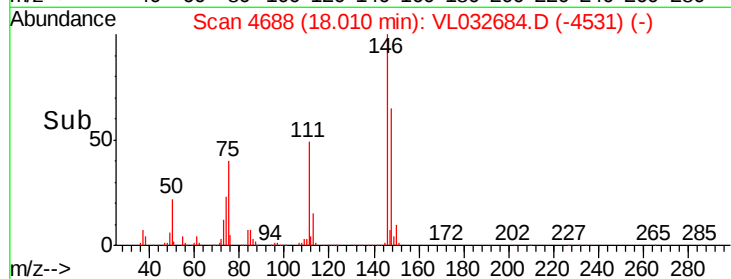
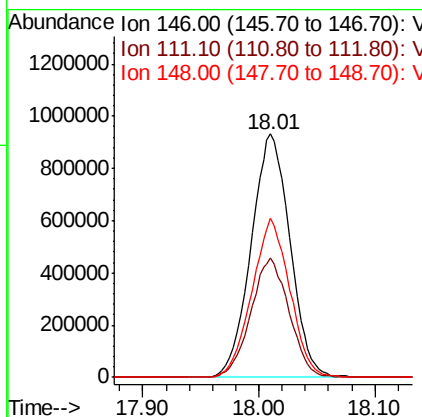
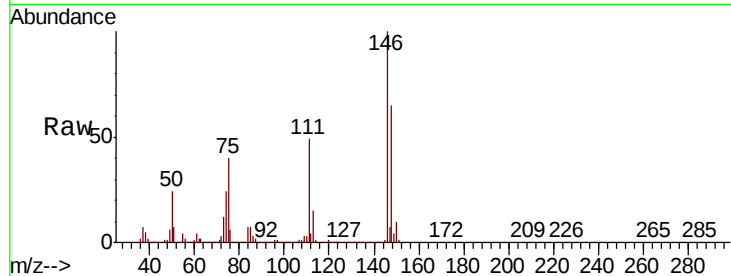
#77
 1,2-Dichlorobenzene
 Concen: 9.368 ppbv
 RT: 18.01 min Scan# 4688
 Delta R.T. 0.00 min
 Lab File: VL032684.D
 Acq: 19 Oct 2018 14:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 2167814
 Ion Ratio Lower Upper
 146 100
 111 48.4 25.3 75.8
 148 64.0 31.9 95.9

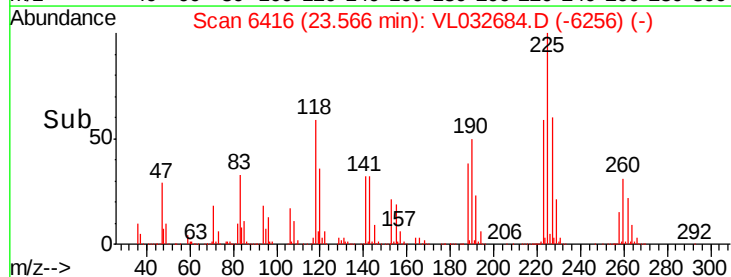
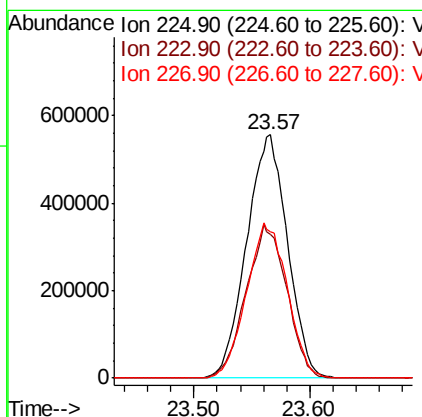
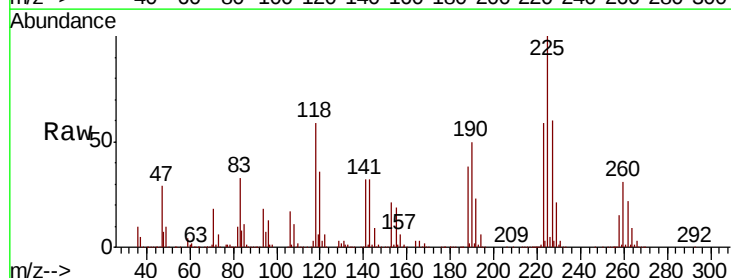
Manual Integrations
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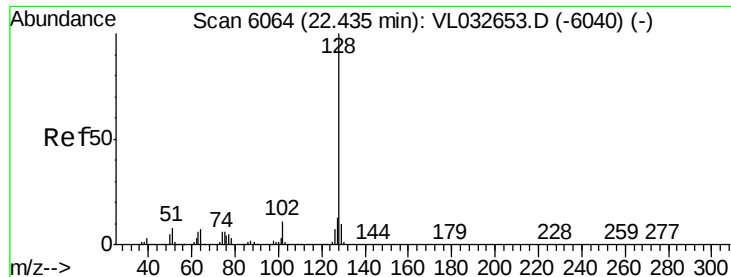
MMDadoda
 10/24/2018 12:07:02 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 12.474 ppbv
 RT: 23.57 min Scan# 6416
 Delta R.T. 0.01 min
 Lab File: VL032684.D
 Acq: 19 Oct 2018 14:55

Tgt Ion:225 Resp: 1363917
 Ion Ratio Lower Upper
 225 100
 223 62.6 50.7 76.1
 227 63.5 50.7 76.1





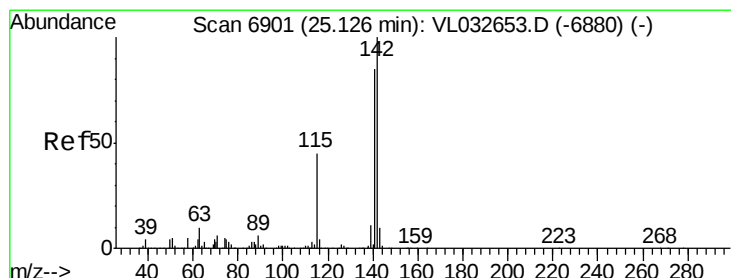
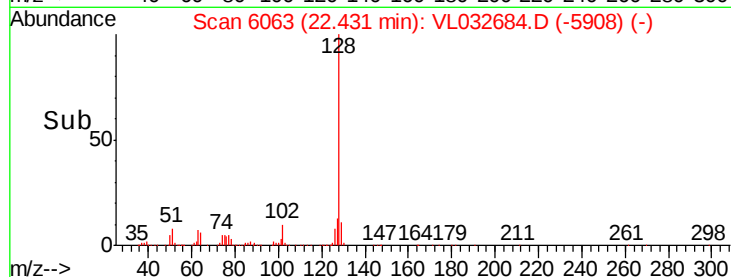
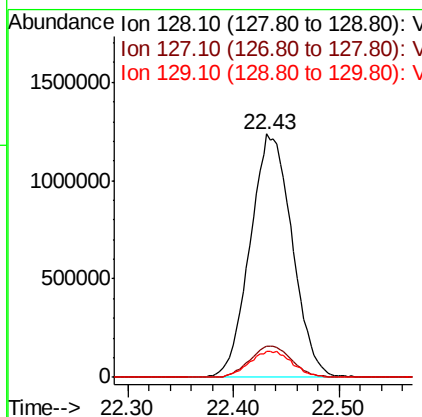
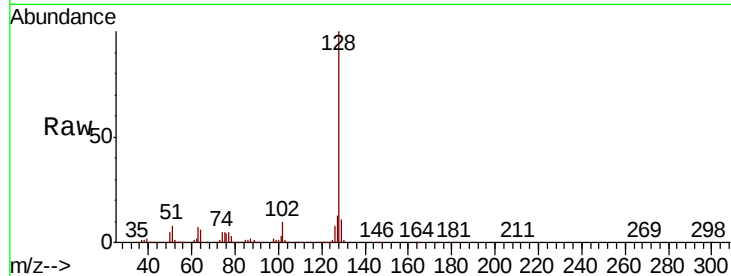
#79
Naphthalene
Concen: 12.968 ppbv
RT: 22.43 min Scan# 6063
Delta R.T. -0.00 min
Lab File: VL032684.D
Acq: 19 Oct 2018 14:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	10.7	8.6	13.0

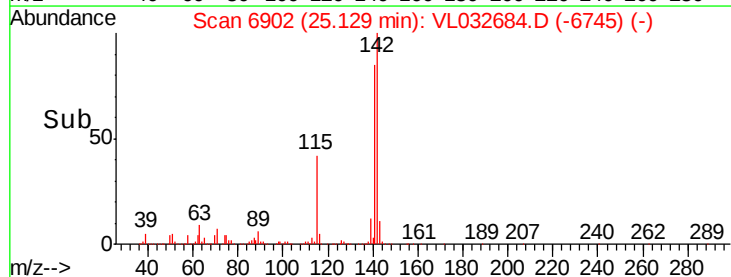
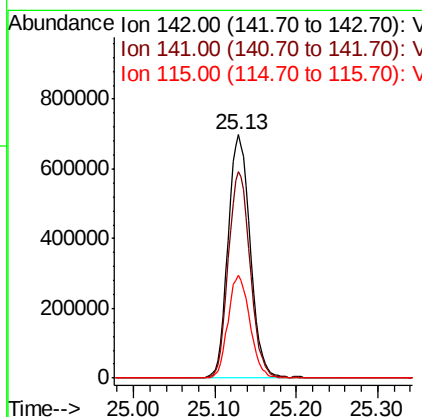
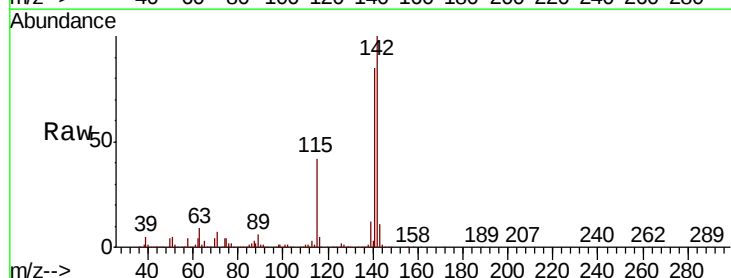
Manual Integrations
APPROVED

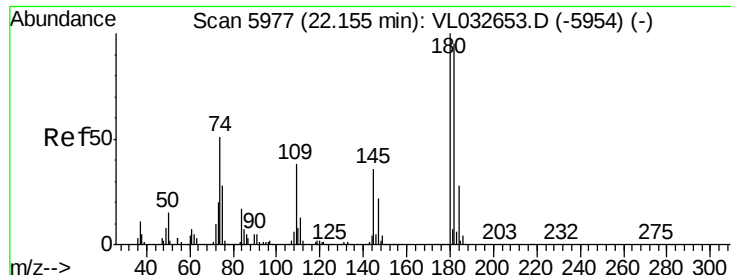
MMDadoda
10/24/2018 12:07:02 PM



#80
Naphthalene, 2-methyl-
Concen: 20.926 ppbv
RT: 25.13 min Scan# 6902
Delta R.T. 0.00 min
Lab File: VL032684.D
Acq: 19 Oct 2018 14:55

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.9	67.5	101.3
115	41.8	33.5	50.3





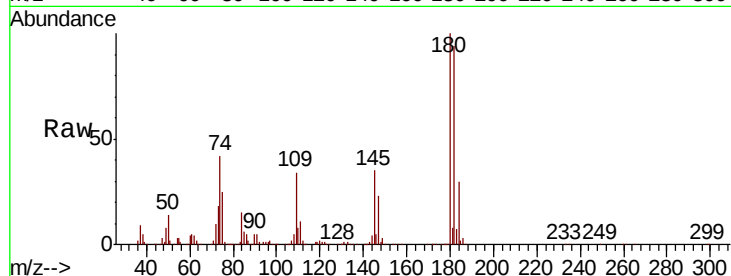
#81
 1,2,4-Trichlorobenzene
 Concen: 11.792 ppbv
 RT: 22.16 min Scan# 5978
 Delta R.T. 0.00 min
 Lab File: VL032684.D
 Acq: 19 Oct 2018 14:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:	180	Resp:	1612339
Ion Ratio	Lower	Upper	
180	100		
182	96.1	76.5	114.7
184	30.5	24.7	37.1

Manual Integrations
 APPROVED

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 10/24/2018 12:07:02 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

