

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101818\
 Data File : VL032659.D
 Acq On : 18 Oct 2018 19:58
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 10/24/2018 12:04:50 PM

Quant Time: Oct 18 20:29:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 18 2018
 QLast Update : Thu Oct 18 11:41:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1605920	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.32	114	4253675	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	4325221	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.60	95	3212894	9.87	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	1907821	12.045	ppbv	100
3) Chlorodifluoromethane	3.02	51	1780710	13.252	ppbv	99
4) Chloromethane	3.18	50	1044920	14.246	ppbv	100
5) Vinyl Chloride	3.30	62	1050605	14.216	ppbv	99
6) Bromomethane	3.53	94	664945	14.245	ppbv	96
7) Chloroethane	3.62	64	396895	13.720	ppbv	99
8) Dichlorotetrafluoroethane	3.23	85	2384028	13.169	ppbv	91
9) Propene	3.05	41	817140	16.588	ppbv	100
10) Heptane	8.26	43	3191893	17.303	ppbv	99
11) Trichlorofluoromethane	4.02	101	2561720	12.418	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.57	101	2418798	16.014	ppbv	92
13) Ethanol	3.66	45	199771	13.106	ppbv	97
14) Bromoethene	3.80	108	823402	14.900	ppbv	99
15) Acetone	3.91	43	1708235	11.953	ppbv	100
16) 1,3-Butadiene	3.37	39	852960	16.119	ppbv	82
17) tert-Butyl alcohol	4.37	59	542425	41.588	ppbv #	100
18) 1,1-Dichloroethene	4.36	96	976578	14.337	ppbv	96
19) Isopropyl Alcohol	4.04	45	1213980	12.028	ppbv #	98
20) Methylene Chloride	4.42	84	989507	15.456	ppbv	95
21) Allyl Chloride	4.49	41	1871335	17.448	ppbv	99
22) trans-1,2-Dichloroethene	4.98	96	1156235	14.693	ppbv	92
23) Vinyl Acetate	5.17	43	4122171	18.131	ppbv	99
24) 1,1-Dichloroethane	5.11	63	2927918	13.891	ppbv	98
25) Ethyl Acetate	5.79	43	4691698	13.874	ppbv	100
26) Hexane	5.80	57	2223075	14.595	ppbv	99
27) Carbon Disulfide	4.63	76	2873612	15.612	ppbv	99
28) Methyl tert-Butyl Ether	5.13	73	3564686	18.623	ppbv	99
29) Chloroform	5.87	83	3505003	13.129	ppbv	100
30) Cyclohexane	7.27	84	2118315	17.635	ppbv	97
31) cis-1,2-Dichloroethene	5.66	61	2329440	15.920	ppbv	98
32) 1,1,1-Trichloroethane	6.64	97	3659578	13.741	ppbv	99
34) 2-Butanone	5.35	43	3175985	13.452	ppbv	100
35) Carbon Tetrachloride	7.16	117	3979526	12.072	ppbv	99
36) Benzene	7.03	78	4974802	14.429	ppbv	100
37) 1,2-Dichloroethane	6.43	62	2846841	12.039	ppbv	97
38) Trichloroethene	7.98	130	1913543	14.761	ppbv	98
39) 1,2-Dichloropropane	7.76	63	1919847	13.688	ppbv	99
40) 1,4-Dioxane	7.98	88	652473	13.465	ppbv #	99
41) Tetrahydrofuran	6.16	42	2016937	16.102	ppbv	99
42) Bromodichloromethane	7.94	83	4063822	12.607	ppbv	98
43) Methyl Methacrylate	8.16	69	2003683	14.988	ppbv	98

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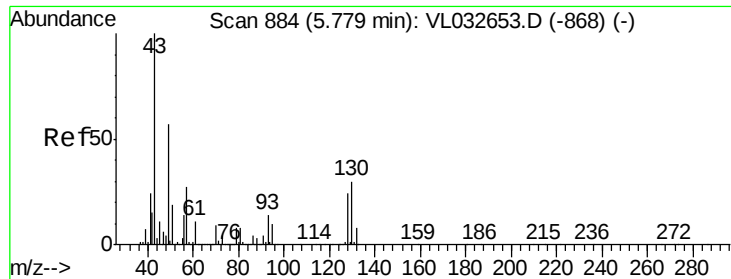
Manual Integrations
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Quant Time: Oct 18 20:29:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 18 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.01	57	8208411	13.429	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	2980826	17.053	ppbv	99
46) cis-1,3-Dichloropropene	8.86	75	3131311	15.735	ppbv	99
47) 1,1,2-Trichloroethane	9.64	97	2247290	13.408	ppbv	100
48) Dibromochloromethane	10.48	129	3875905	13.615	ppbv	100
49) Bromoform	13.23	173	2996071	13.928	ppbv	99
50) 4-Methyl-2-Pentanone	8.89	43	4888081	14.067	ppbv	100
51) 2-Hexanone	10.29	43	4139026	15.148	ppbv #	99
52) Tetrachloroethene	11.39	164	1840837	16.218	ppbv	96
53) Toluene	9.97	91	6263394	15.934	ppbv	100
54) 1,2-Dibromoethane	10.79	107	3176755	13.236	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.30	131	2488020	12.527	ppbv #	71
57) Chlorobenzene	12.33	112	4250313	12.921	ppbv	95
58) Ethyl Benzene	12.89	91	7633792	15.716	ppbv	97
59) m/p-Xylene	13.17	91	12639949m	29.151	ppbv	
60) o-Xylene	13.88	91	6030256	13.957	ppbv	99
61) Styrene	13.71	104	4759401	18.176	ppbv	97
62) Isopropylbenzene	14.85	105	8483779	13.783	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.86	83	4212783	11.048	ppbv	99
64) n-propylbenzene	15.75	120	2229257	14.292	ppbv	89
65) tert-Butylbenzene	16.93	119	7221049	13.826	ppbv	95
66) Benzyl Chloride	17.18	91	4423604	15.022	ppbv	98
67) sec-Butylbenzene	17.48	105	10277831	13.075	ppbv	98
69) p-Isopropyltoluene	17.84	119	8428309	14.166	ppbv	98
70) n-Butylbenzene	18.74	91	8612259	13.139	ppbv	98
71) 2-Chlorotoluene	15.64	91	6390241	14.044	ppbv	97
72) 4-Ethyltoluene	16.03	105	6951575	14.883	ppbv	99
73) 1,3,5-Trimethylbenzene	16.18	105	6578265	14.160	ppbv	96
74) 1,2,4-Trimethylbenzene	16.95	105	6498031	12.705	ppbv	97
75) 1,3-Dichlorobenzene	17.19	146	3675403	12.364	ppbv	98
76) 1,4-Dichlorobenzene	17.33	146	3701896	13.667	ppbv	99
77) 1,2-Dichlorobenzene	18.01	146	3591014	12.567	ppbv	98
78) Hexachloro-1,3-Butadiene	23.57	225	1455483	9.101	ppbv	99
79) Naphthalene	22.43	128	5307533	15.260	ppbv	99
80) Naphthalene, 2-methyl-	25.13	142	1971264	29.186	ppbv	100
81) 1,2,4-Trichlorobenzene	22.16	180	2582630	14.958	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.78 min Scan# 885

Delta R.T. 0.00 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 1605920

Ion Ratio Lower Upper

49 100

128 48.5 22.3 66.8

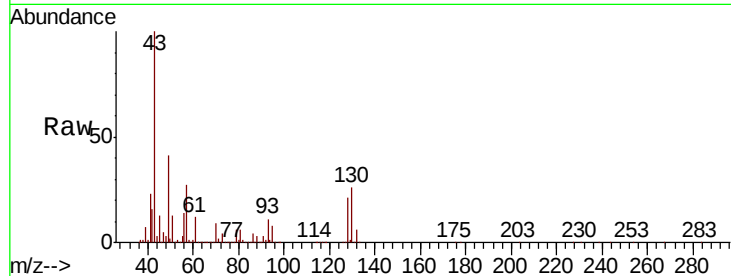
130 62.3 28.4 85.3

Manual Integrations

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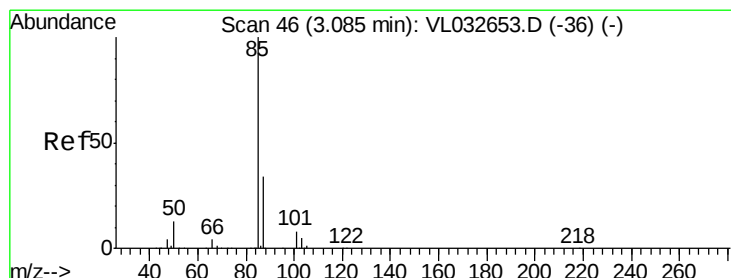
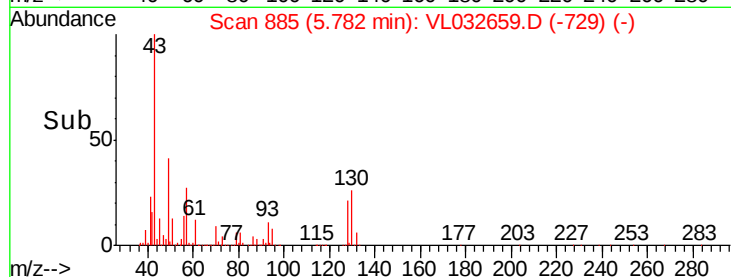
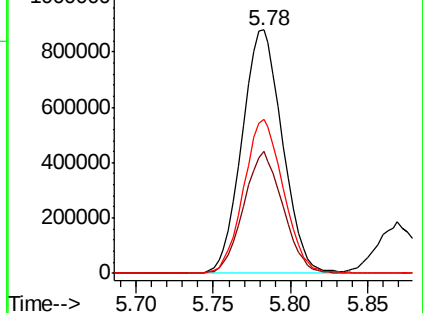
10/24/2018 12:04:50 PM



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: 12.045 ppbv

RT: 3.09 min Scan# 47

Delta R.T. 0.00 min

Lab File: VL032659.D

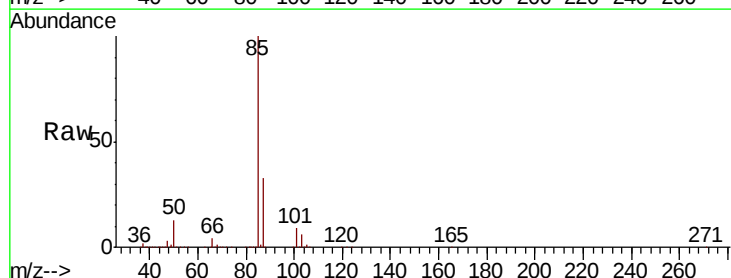
Acq: 18 Oct 2018 19:58

Tgt Ion: 85 Resp: 1907821

Ion Ratio Lower Upper

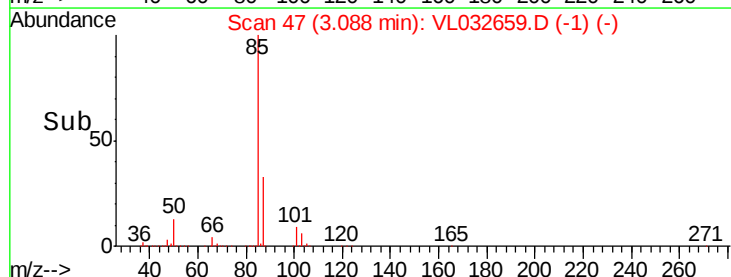
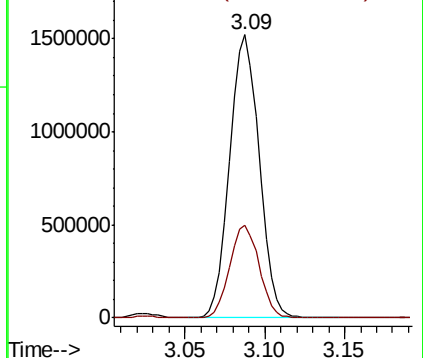
85 100

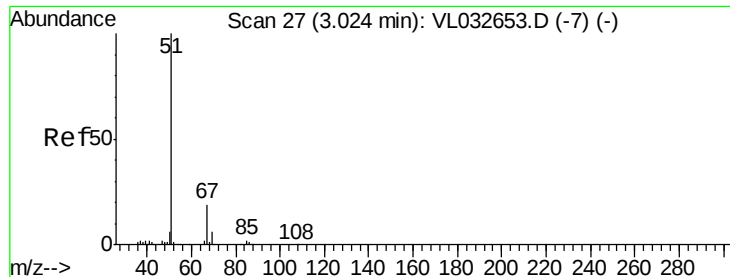
87 32.6 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 13.252 ppbv

RT: 3.02 min Scan# 27

Delta R.T. -0.00 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 51 Resp: 1780710

Ion Ratio Lower Upper

51 100

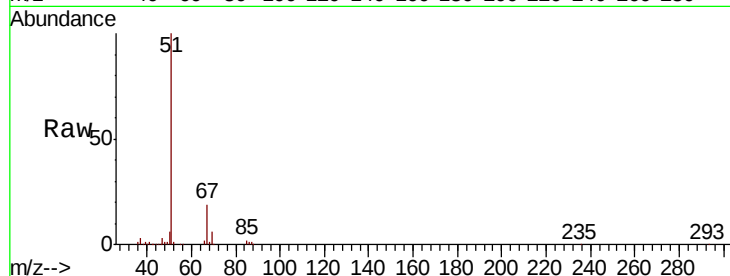
67 18.4 15.2 22.8

Manual Integrations

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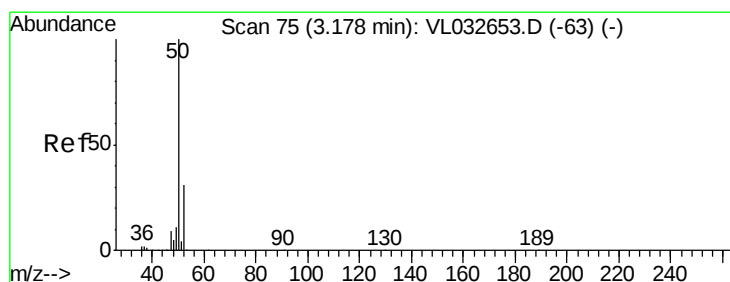
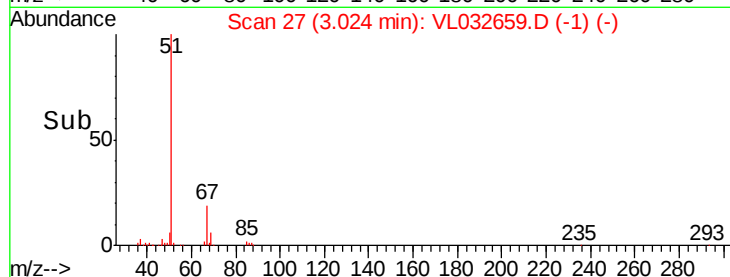
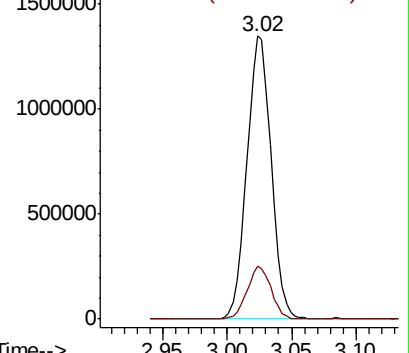
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 14.246 ppbv

RT: 3.18 min Scan# 76

Delta R.T. 0.00 min

Lab File: VL032659.D

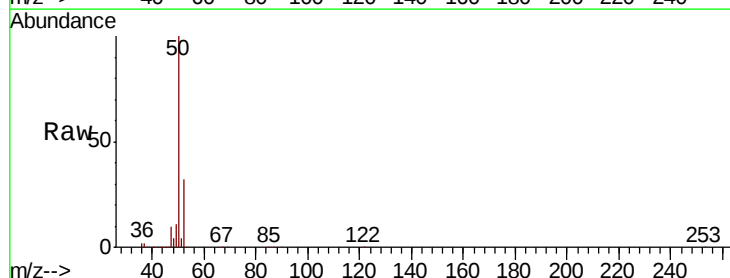
Acq: 18 Oct 2018 19:58

Tgt Ion: 50 Resp: 1044920

Ion Ratio Lower Upper

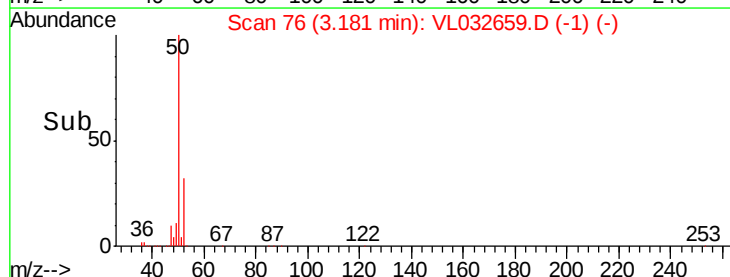
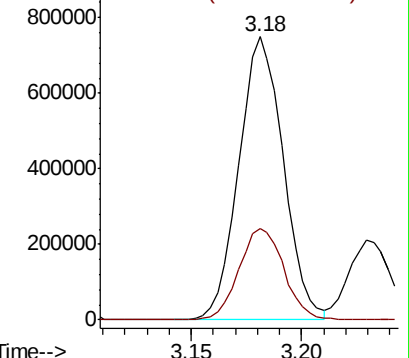
50 100

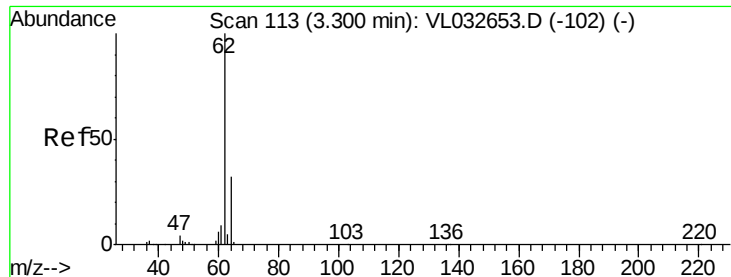
52 32.5 25.9 38.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 14.216 ppbv

RT: 3.30 min Scan# 114

Delta R.T. 0.00 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 1050605

Ion Ratio Lower Upper

62 100

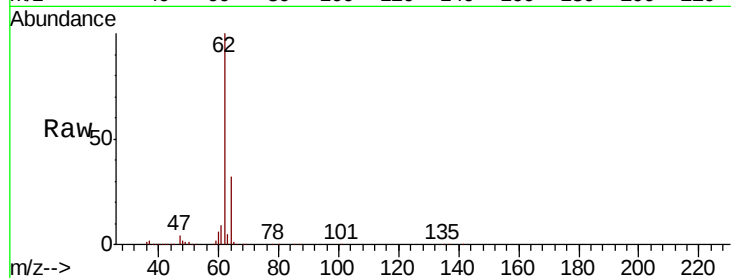
64 31.6 25.5 38.3

Manual Integrations

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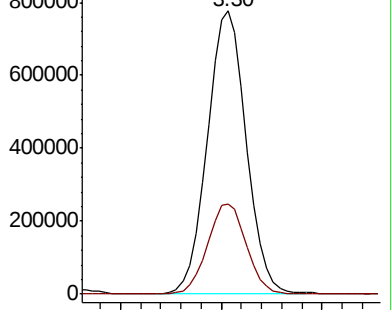
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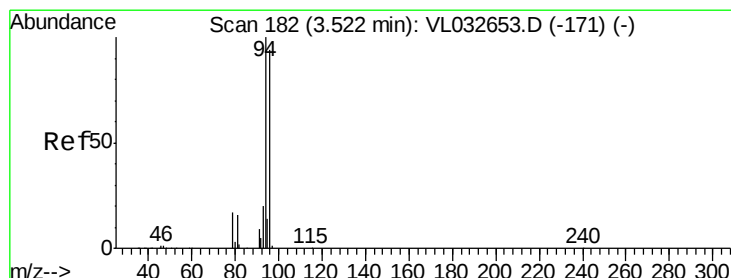
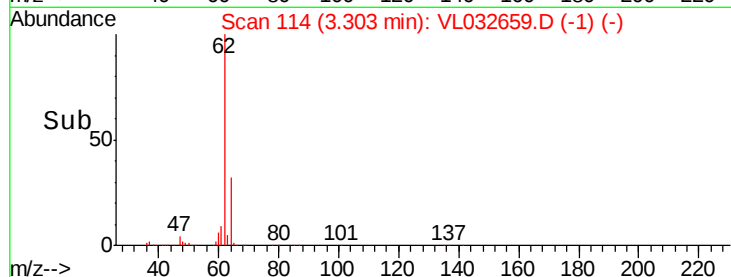


Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



Time-->



#6

Bromomethane

Concen: 14.245 ppbv

RT: 3.53 min Scan# 183

Delta R.T. 0.00 min

Lab File: VL032659.D

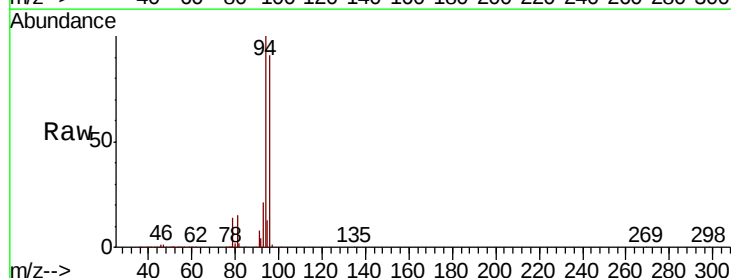
Acq: 18 Oct 2018 19:58

Tgt Ion: 94 Resp: 664945

Ion Ratio Lower Upper

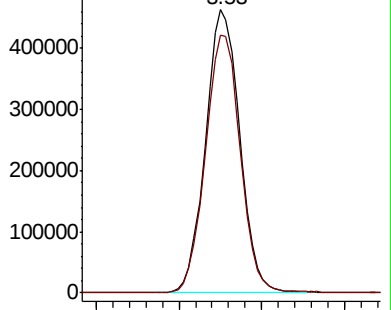
94 100

96 91.2 69.8 104.8

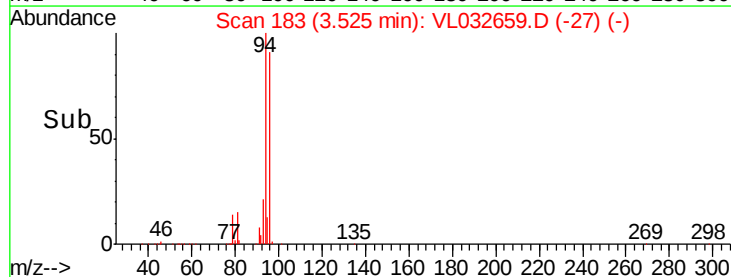


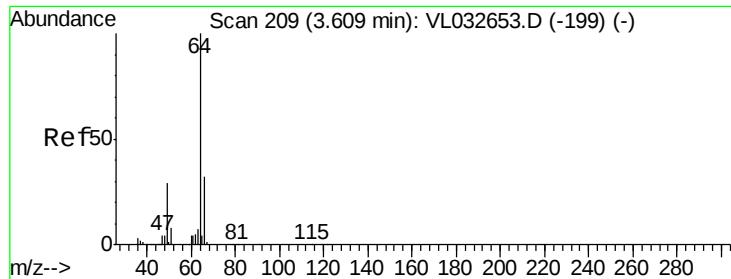
Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



Time-->





#7

Chloroethane

Concen: 13.720 ppbv

RT: 3.62 min Scan# 211

Delta R.T. 0.01 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 396895

Ion Ratio Lower Upper

64 100

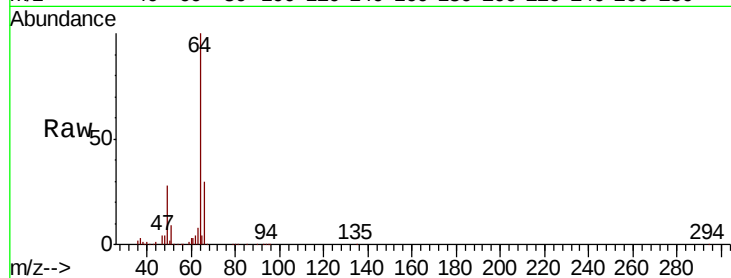
66 29.8 24.4 36.6

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.62

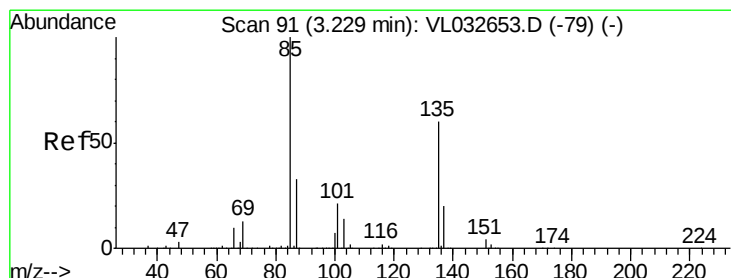
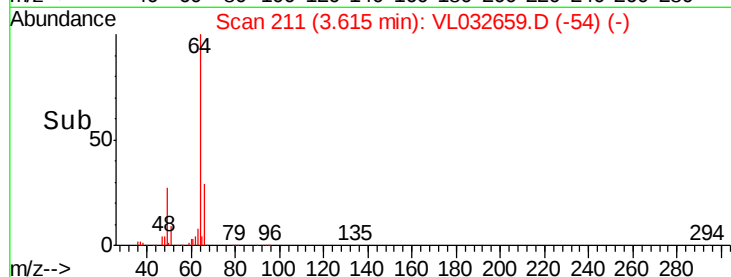
300000

200000

100000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 13.169 ppbv

RT: 3.23 min Scan# 92

Delta R.T. 0.00 min

Lab File: VL032659.D

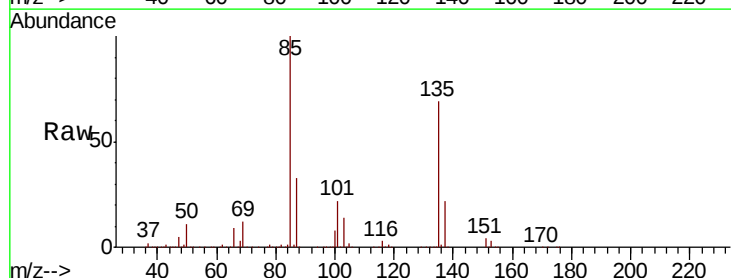
Acq: 18 Oct 2018 19:58

Tgt Ion: 85 Resp: 2384028

Ion Ratio Lower Upper

85 100

135 68.2 49.0 73.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.23

2000000

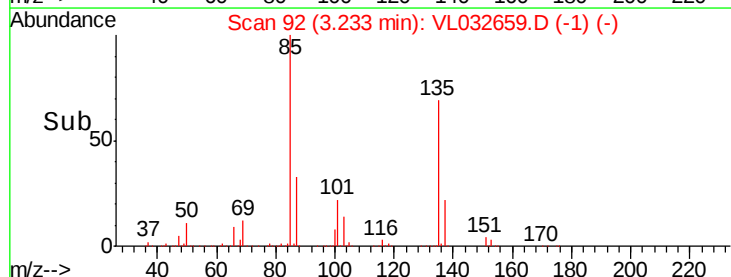
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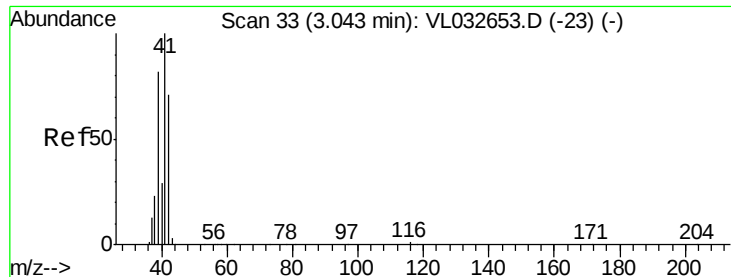
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500000

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Time-->





#9

Propene

Concen: 16.588 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.00 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 817140

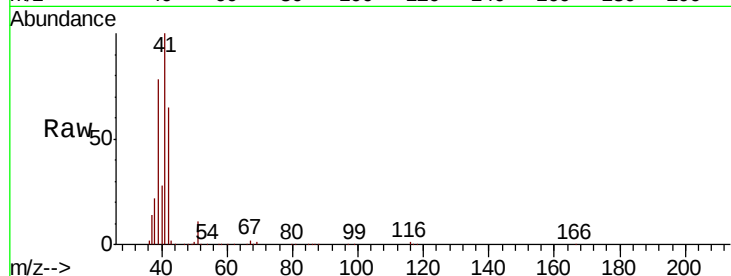
Ion Ratio Lower Upper

41 100

42 68.8 55.4 83.0

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10/24/2018 12:04:50 PM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.05

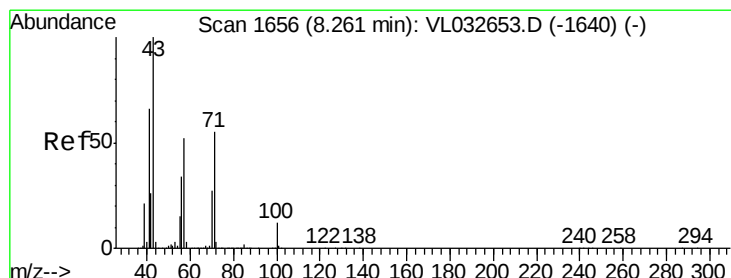
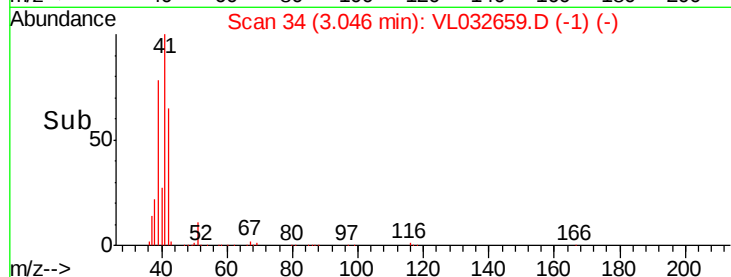
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400000

200000

0

Time-->



#10

Heptane

Concen: 17.303 ppbv

RT: 8.26 min Scan# 1657

Delta R.T. 0.00 min

Lab File: VL032659.D

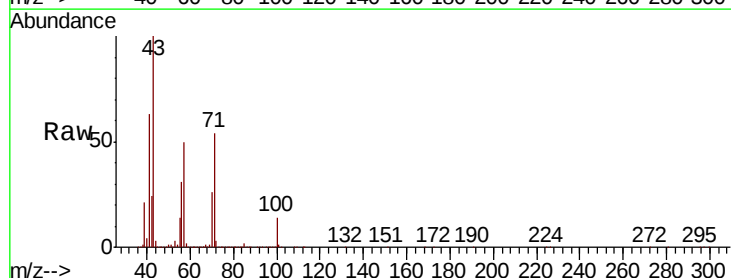
Acq: 18 Oct 2018 19:58

Tgt Ion: 43 Resp: 3191893

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

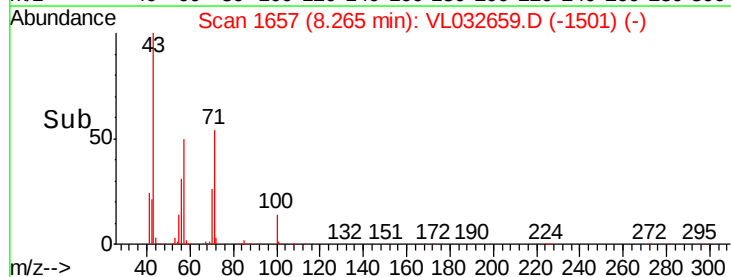
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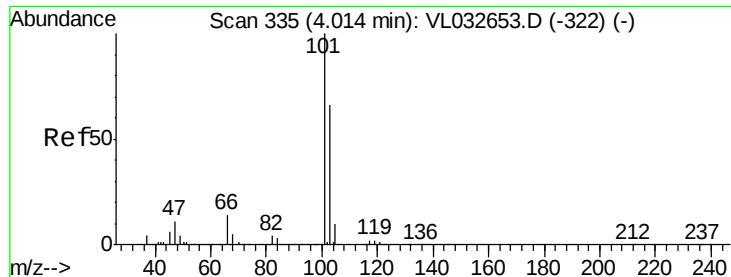
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Time-->





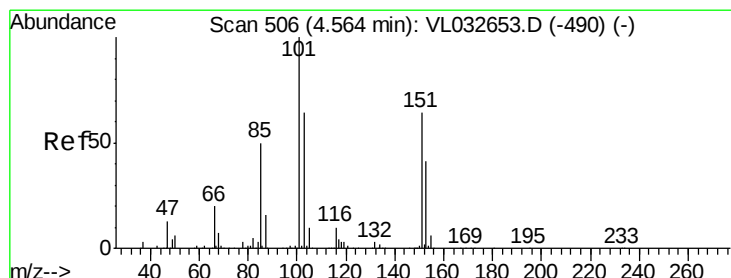
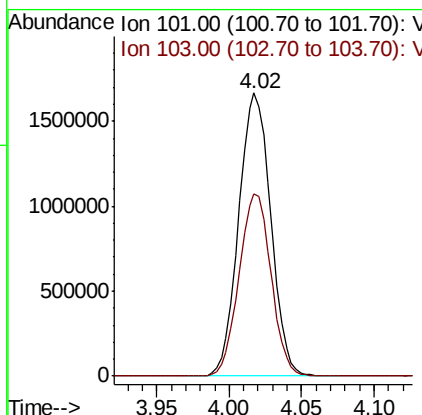
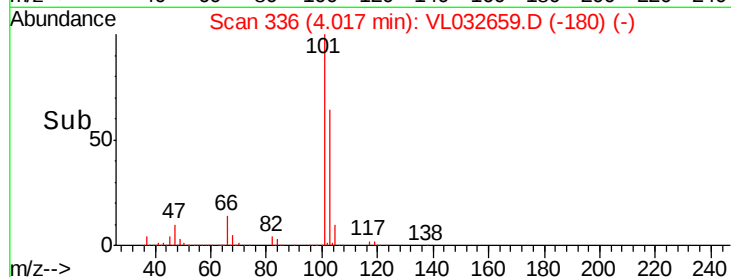
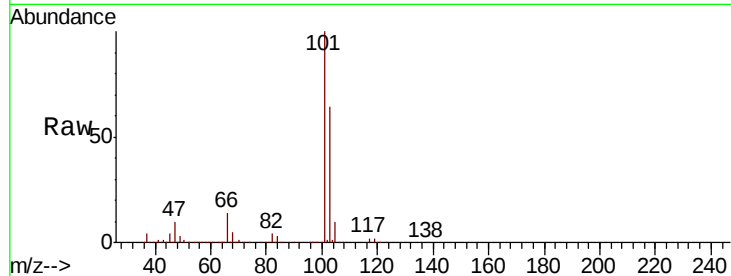
#11
 Trichlorofluoromethane
 Concen: 12.418 ppbv
 RT: 4.02 min Scan# 336
 Delta R.T. 0.00 min
 Lab File: VL032659.D
 Acq: 18 Oct 2018 19:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:101 Resp: 2561720
 Ion Ratio Lower Upper
 101 100
 103 64.5 51.4 77.2

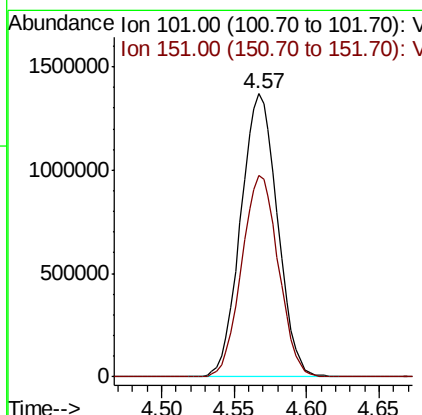
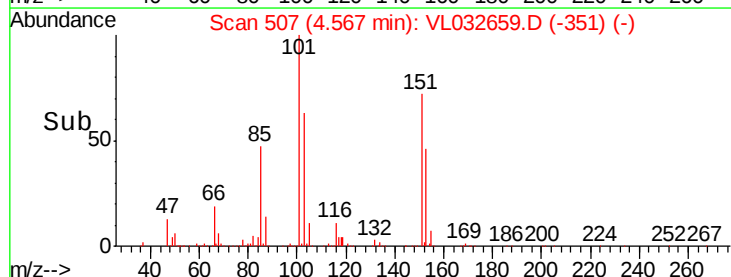
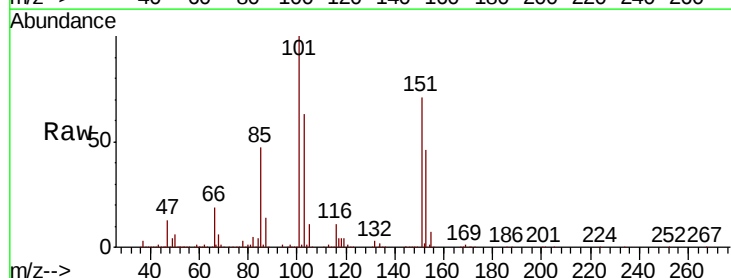
Manual Integrations
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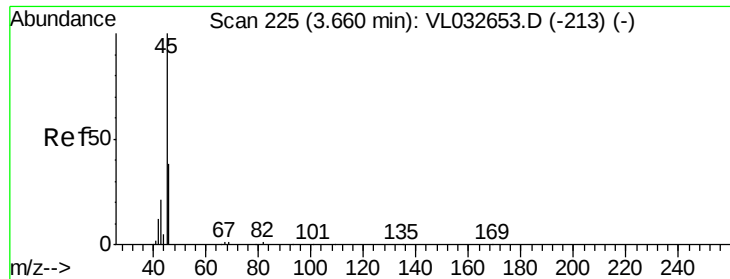
MMDadoda
 10/24/2018 12:04:50 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 16.014 ppbv
 RT: 4.57 min Scan# 507
 Delta R.T. 0.00 min
 Lab File: VL032659.D
 Acq: 18 Oct 2018 19:58

Tgt Ion:101 Resp: 2418798
 Ion Ratio Lower Upper
 101 100
 151 71.4 52.3 78.5





#13

Ethanol

Concen: 13.106 ppbv

RT: 3.66 min Scan# 225

Delta R.T. -0.00 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 45 Resp: 199771

Ion Ratio Lower Upper

45 100

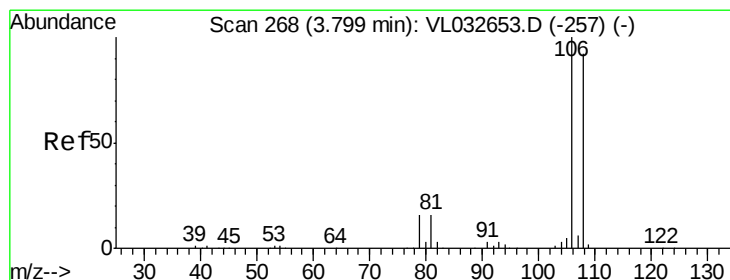
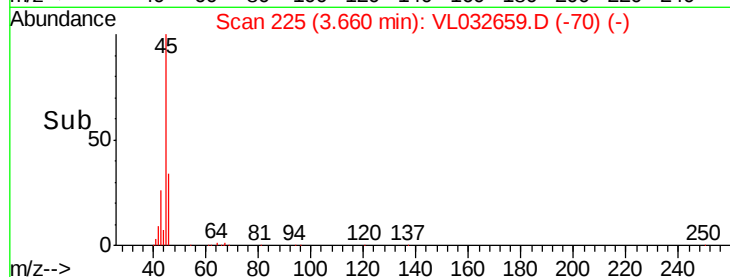
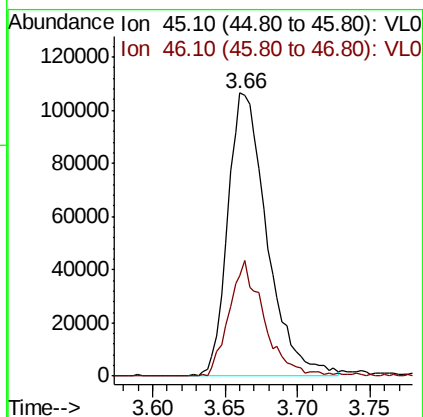
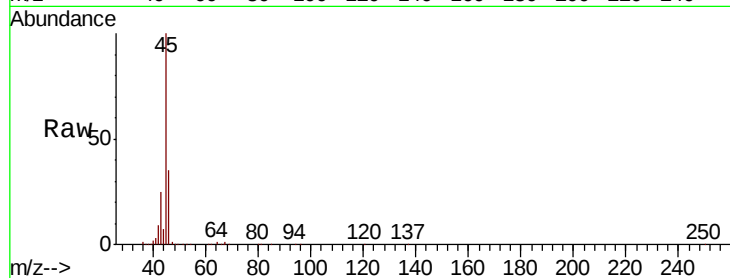
46 36.9 15.4 61.8

Manual Integrations

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#14

Bromoethene

Concen: 14.900 ppbv

RT: 3.80 min Scan# 269

Delta R.T. 0.00 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

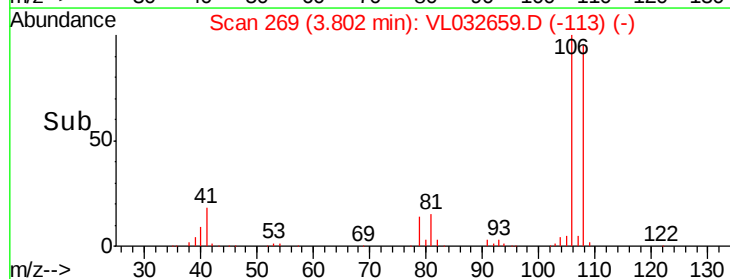
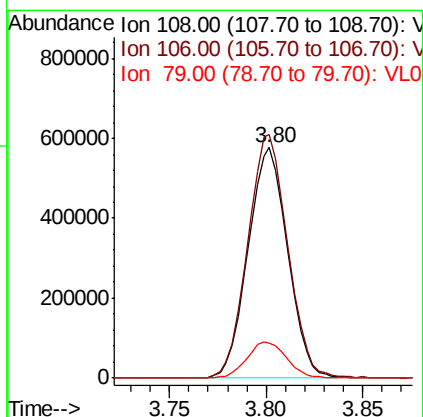
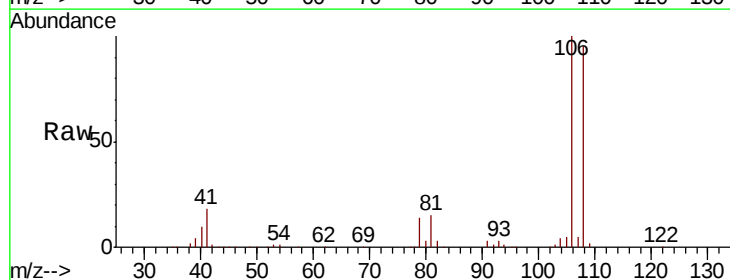
Tgt Ion: 108 Resp: 823402

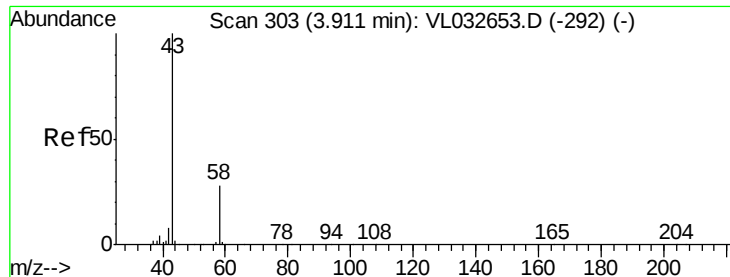
Ion Ratio Lower Upper

108 100

106 106.9 85.0 127.4

79 16.0 13.7 20.5





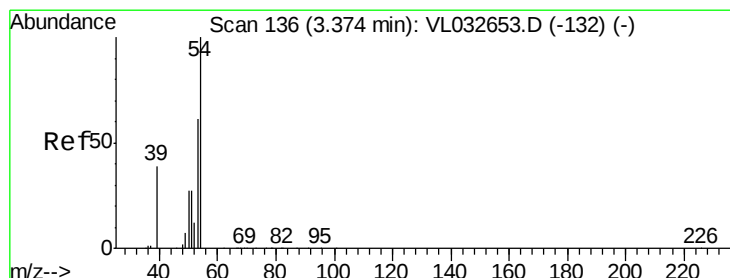
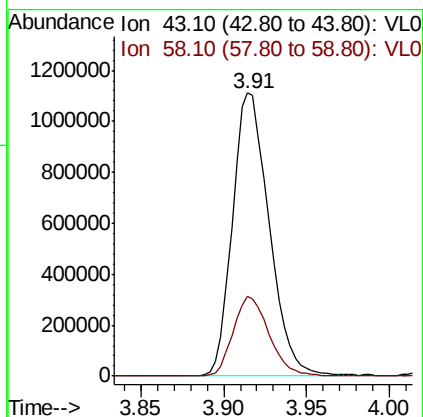
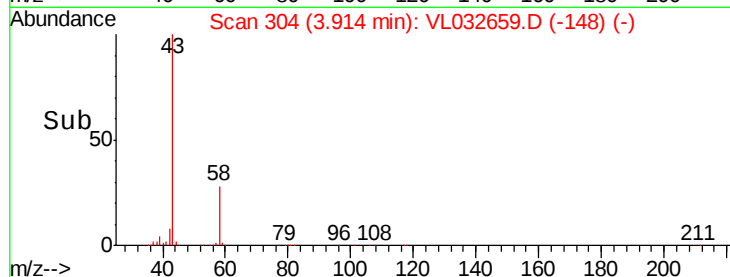
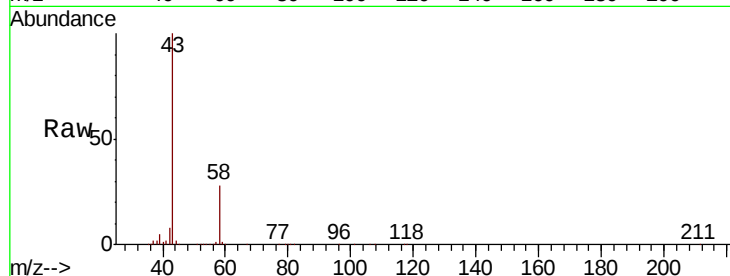
#15
Acetone
Concen: 11.953 ppbv
RT: 3.91 min Scan# 304
Delta R.T. 0.00 min
Lab File: VL032659.D
Acq: 18 Oct 2018 19:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 1708235
Ion Ratio Lower Upper
43 100
58 27.7 22.1 33.1

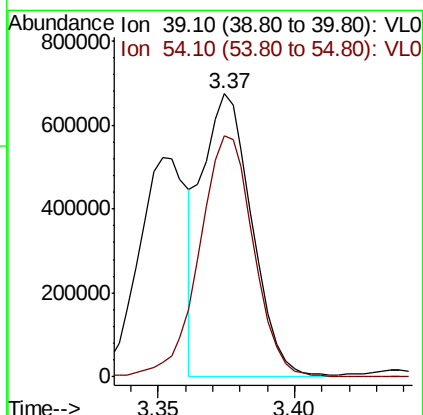
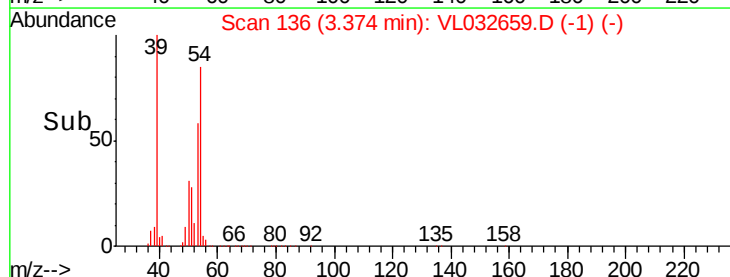
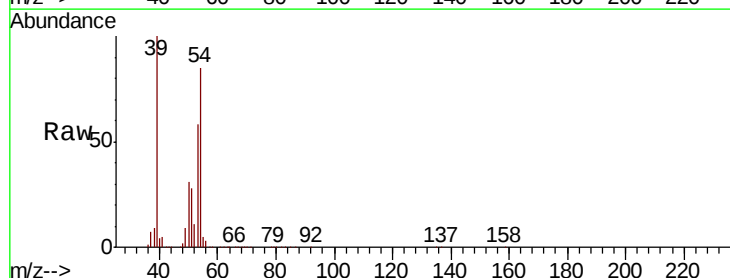
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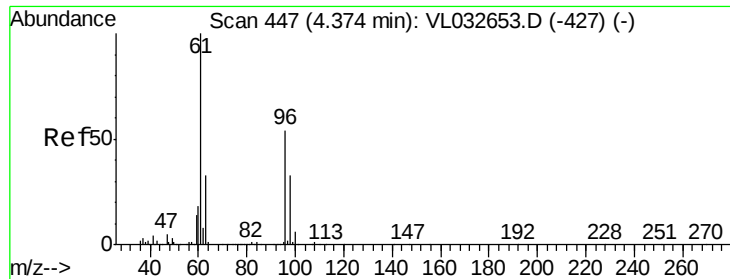
MMDadoda
10/24/2018 12:04:50 PM



#16
1,3-Butadiene
Concen: 16.119 ppbv
RT: 3.37 min Scan# 136
Delta R.T. -0.00 min
Lab File: VL032659.D
Acq: 18 Oct 2018 19:58

Tgt Ion: 39 Resp: 852960
Ion Ratio Lower Upper
39 100
54 93.4 90.4 135.6





#17

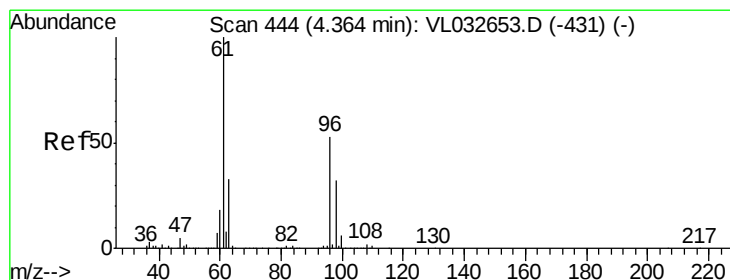
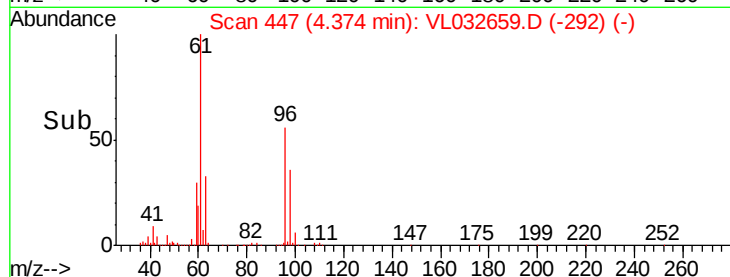
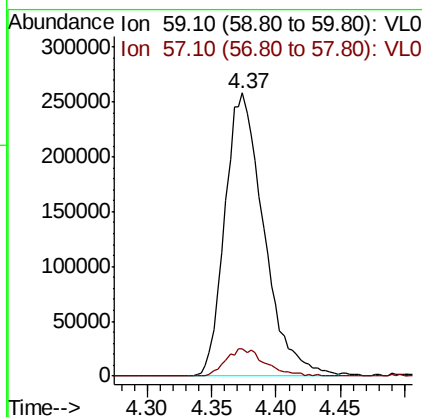
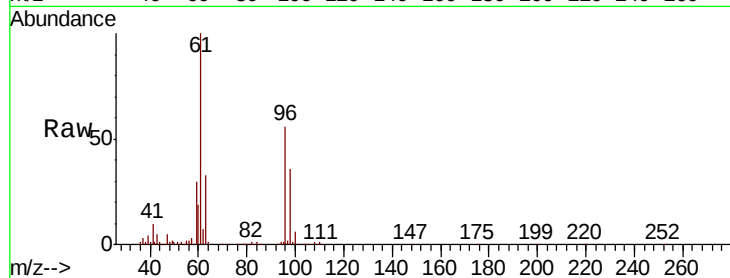
tert-Butyl alcohol
 Concen: 41.588 ppbv
 RT: 4.37 min Scan# 447
 Delta R.T. -0.00 min
 Lab File: VL032659.D
 Acq: 18 Oct 2018 19:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.8	0.0	0.0#

Manual Integrations
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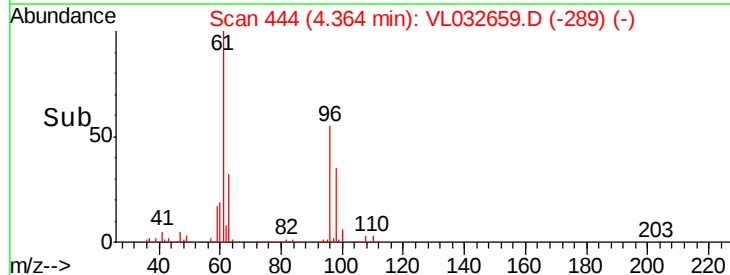
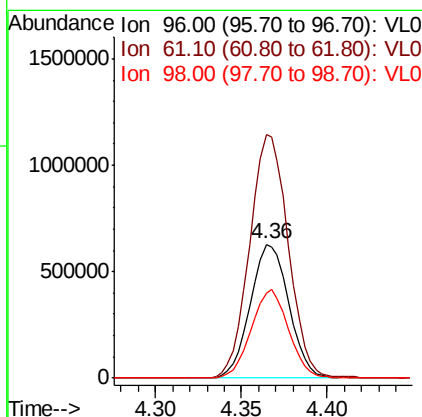
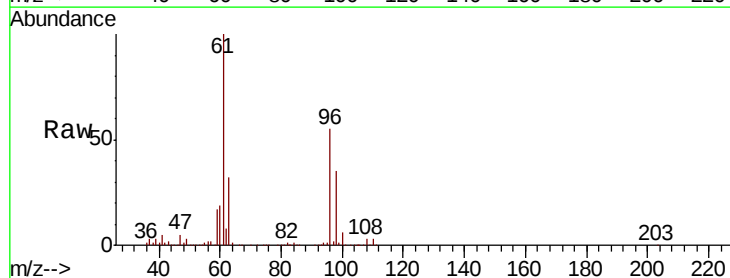
MMDadoda
 10/24/2018 12:04:50 PM

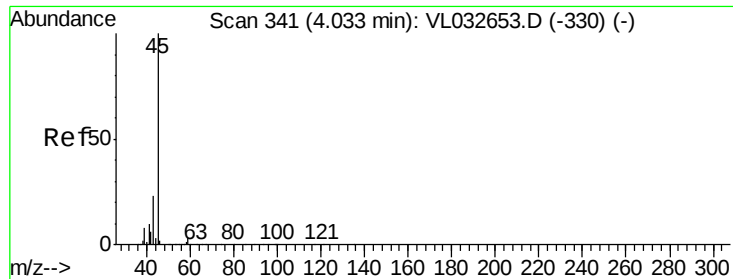


#18

1,1-Dichloroethene
 Concen: 14.337 ppbv
 RT: 4.36 min Scan# 444
 Delta R.T. -0.00 min
 Lab File: VL032659.D
 Acq: 18 Oct 2018 19:58

Tgt Ion	Ratio	Lower	Upper
96	100		
61	182.3	151.6	227.4
98	64.0	50.6	75.8





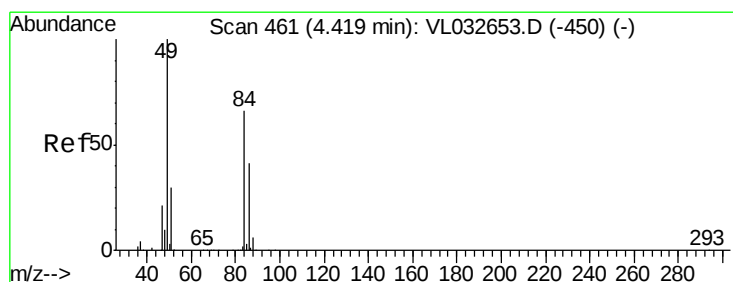
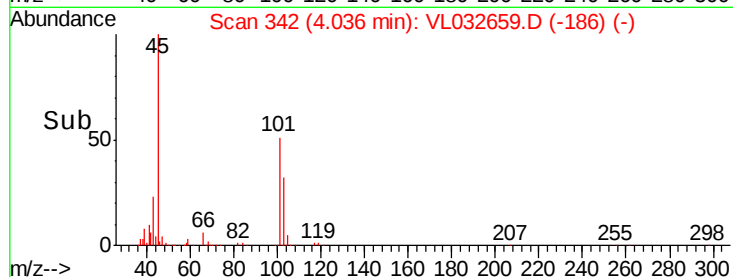
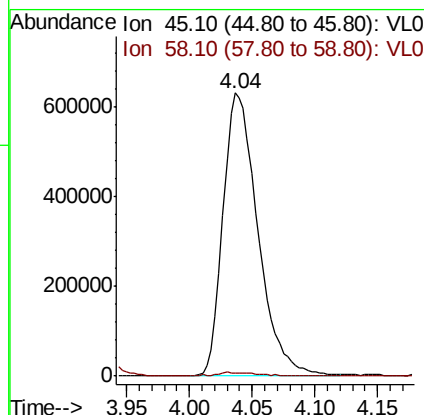
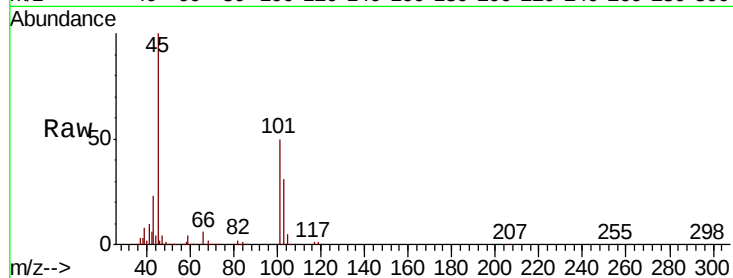
#19
Isopropyl Alcohol
Concen: 12.028 ppbv
RT: 4.04 min Scan# 342
Delta R.T. 0.00 min
Lab File: VL032659.D
Acq: 18 Oct 2018 19:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 45 Resp: 1213980
Ion Ratio Lower Upper
45 100
58 1.7 2.0 3.0#

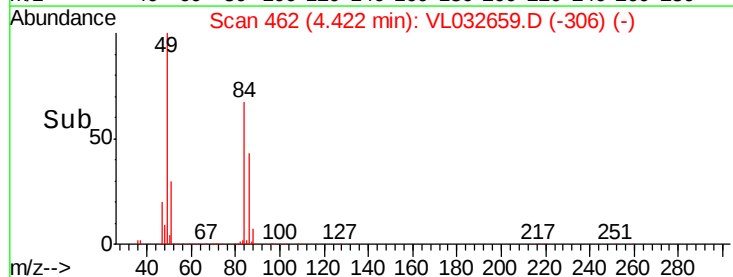
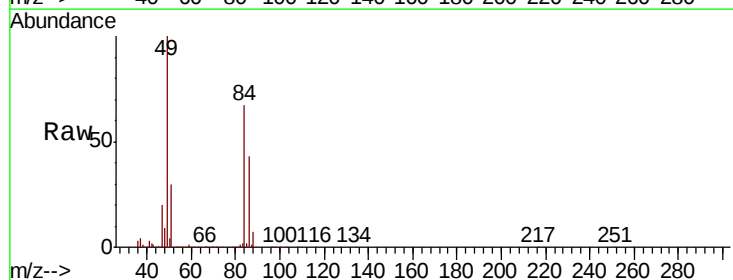
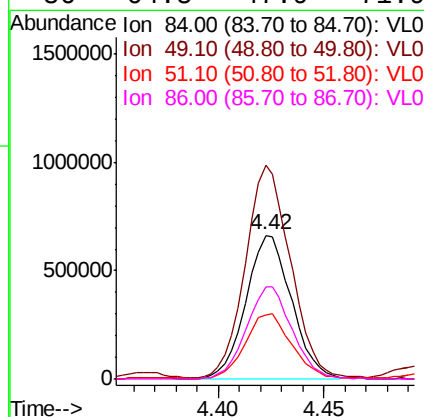
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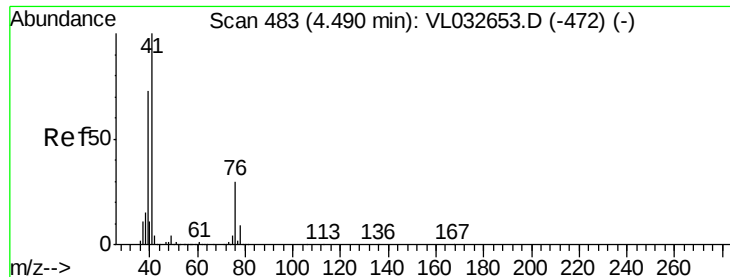
MMDadoda
10/24/2018 12:04:50 PM



#20
Methylene Chloride
Concen: 15.456 ppbv
RT: 4.42 min Scan# 462
Delta R.T. 0.00 min
Lab File: VL032659.D
Acq: 18 Oct 2018 19:58

Tgt Ion: 84 Resp: 989507
Ion Ratio Lower Upper
84 100
49 148.5 113.5 170.3
51 44.0 34.8 52.2
86 64.5 47.9 71.9





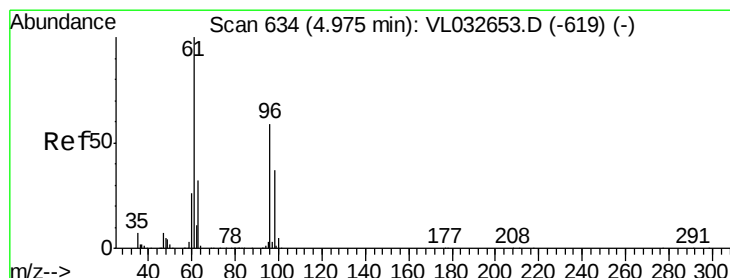
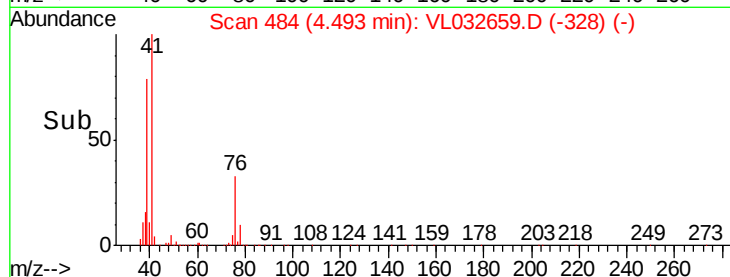
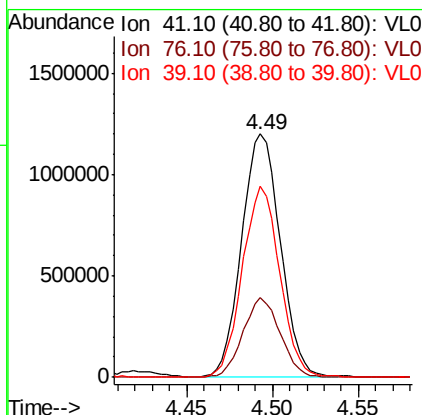
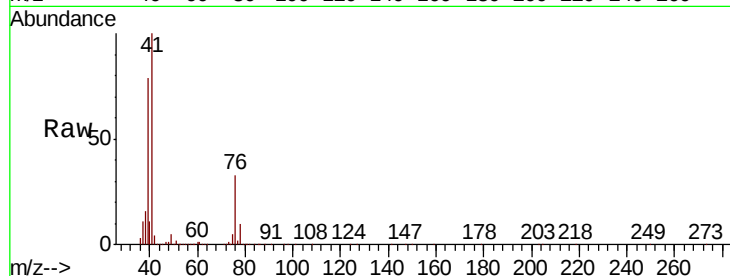
#21
Allvl Chloride
Concen: 17.448 ppbv
RT: 4.49 min Scan# 484
Delta R.T. 0.00 min
Lab File: VL032659.D
Acq: 18 Oct 2018 19:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 41 Resp: 1871335
Ion Ratio Lower Upper
41 100
76 31.4 24.3 36.5
39 75.8 60.3 90.5

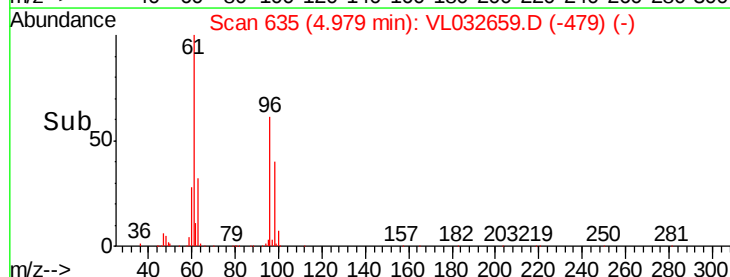
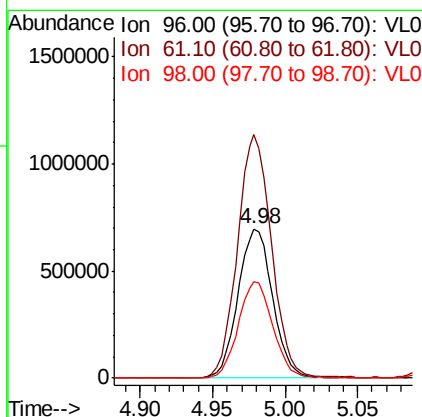
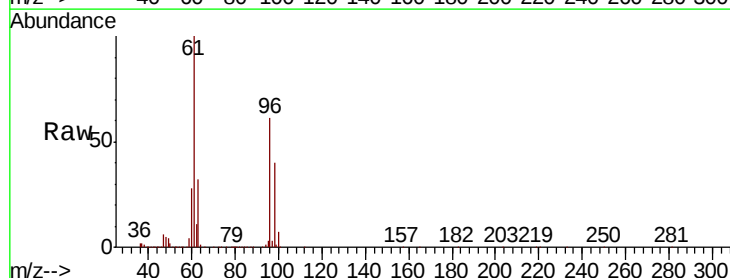
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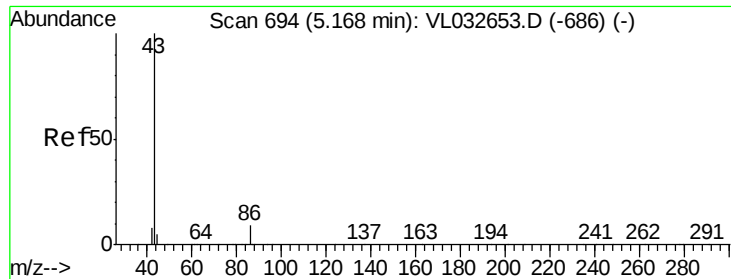
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 14.693 ppbv
RT: 4.98 min Scan# 635
Delta R.T. 0.00 min
Lab File: VL032659.D
Acq: 18 Oct 2018 19:58

Tgt Ion: 96 Resp: 1156235
Ion Ratio Lower Upper
96 100
61 163.4 140.4 210.6
98 64.6 55.0 82.6





#23

Vinyl Acetate

Concen: 18.131 ppbv

RT: 5.17 min Scan# 696

Delta R.T. 0.01 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 4122171

Ion Ratio Lower Upper

43 100

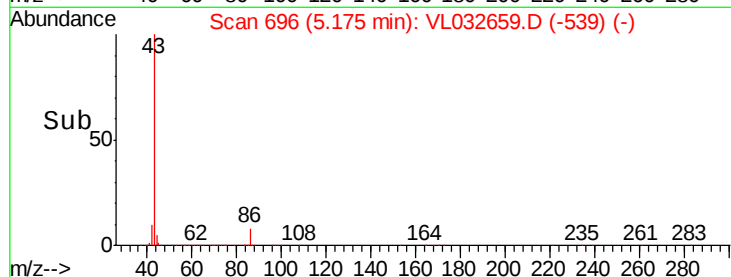
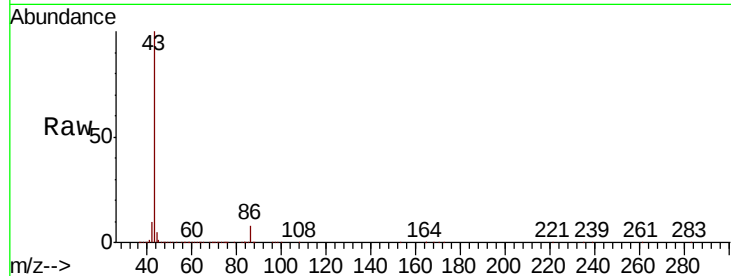
86 8.0 6.1 9.1

42 9.8 7.4 11.2

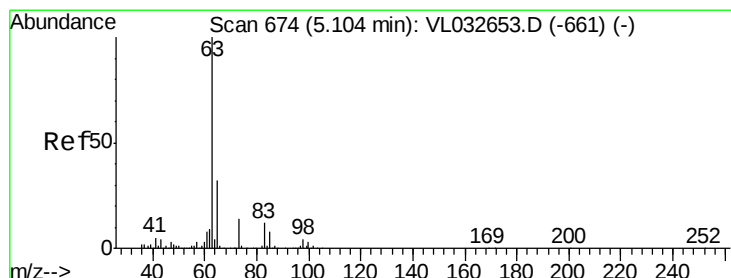
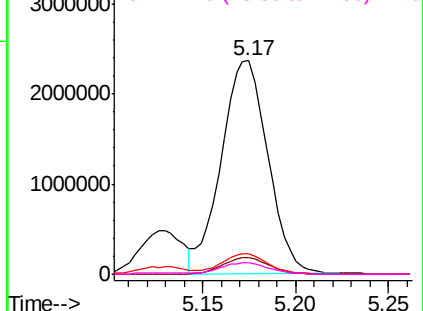
44 5.0 4.2 6.2

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



#24

1,1-Dichloroethane

Concen: 13.891 ppbv

RT: 5.11 min Scan# 676

Delta R.T. 0.01 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

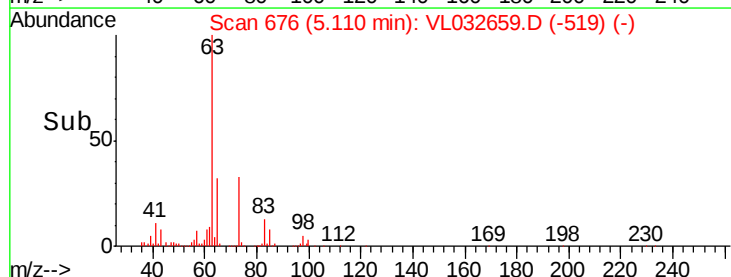
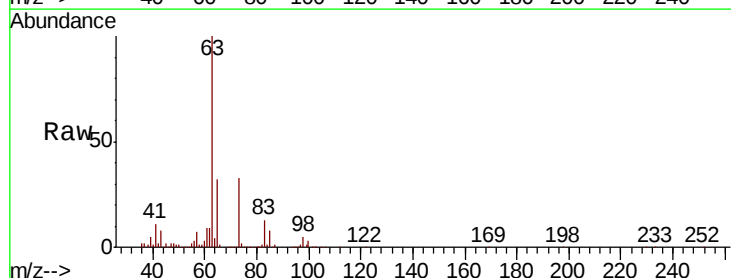
Tgt Ion: 63 Resp: 2927918

Ion Ratio Lower Upper

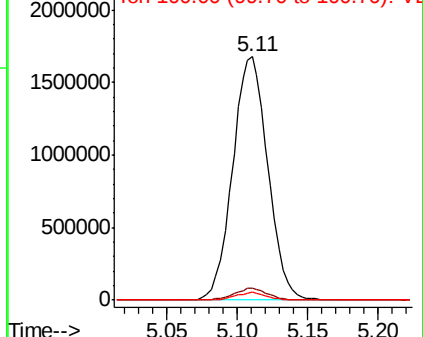
63 100

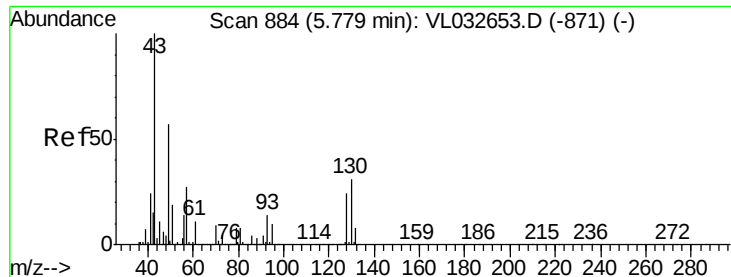
98 4.8 2.1 6.3

100 3.1 1.2 3.6



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





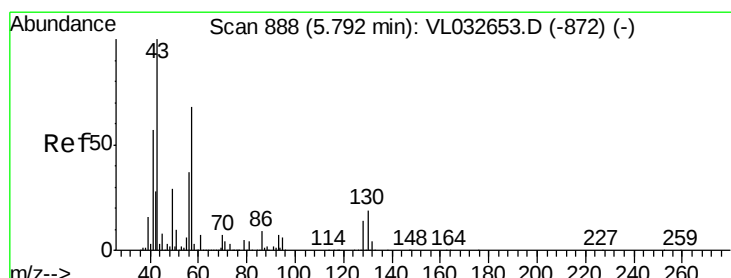
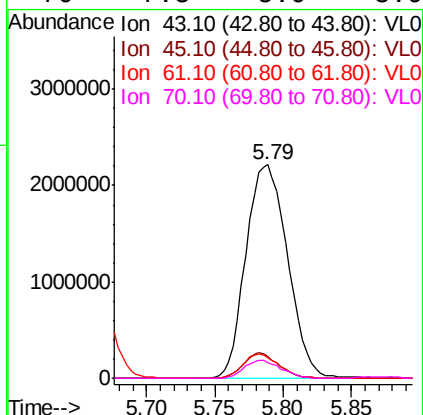
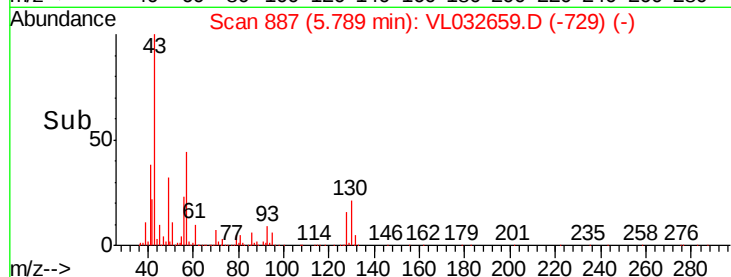
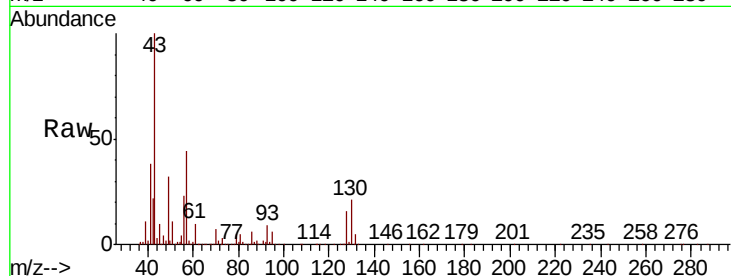
#25
Ethyl Acetate
Concen: 13.874 ppbv
RT: 5.79 min Scan# 887
Delta R.T. 0.01 min
Lab File: VL032659.D
Acq: 18 Oct 2018 19:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.1	8.0	12.0	
61	9.8	8.0	12.0	
70	7.5	5.9	8.9	

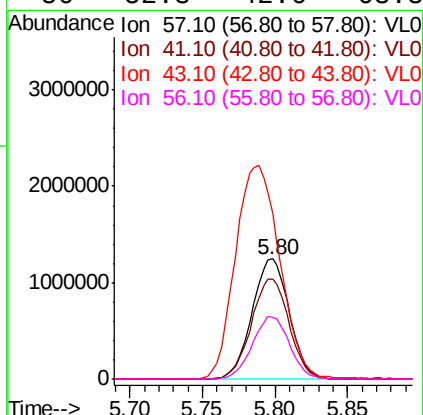
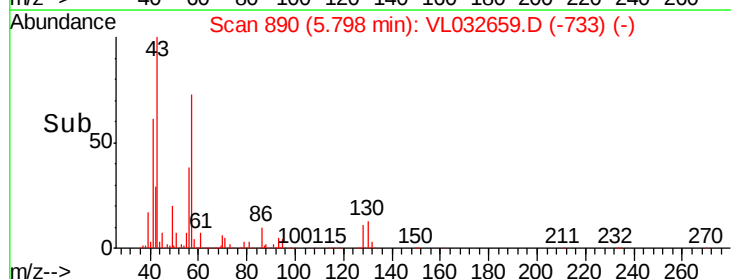
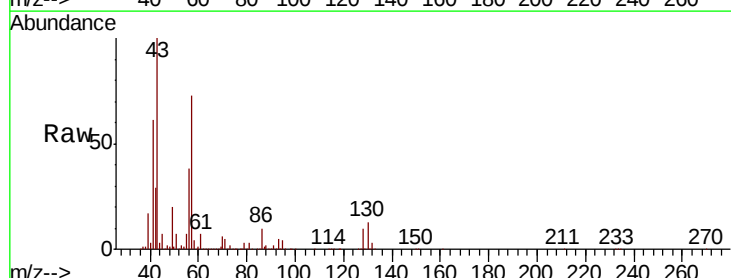
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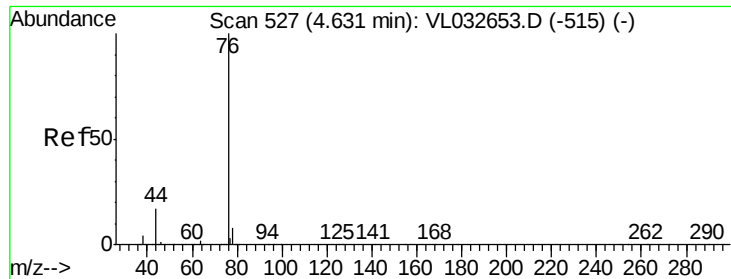
MMDadoda
10/24/2018 12:04:50 PM



#26
Hexane
Concen: 14.595 ppbv
RT: 5.80 min Scan# 890
Delta R.T. 0.01 min
Lab File: VL032659.D
Acq: 18 Oct 2018 19:58

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	84.7	67.4	101.0	
43	212.3	171.9	257.9	
56	52.3	42.6	63.8	





#27

Carbon Disulfide

Concen: 15.612 ppbv

RT: 4.63 min Scan# 528

Delta R.T. 0.00 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 2873612

Ion Ratio Lower Upper

76 100

44 17.3 13.7 20.5

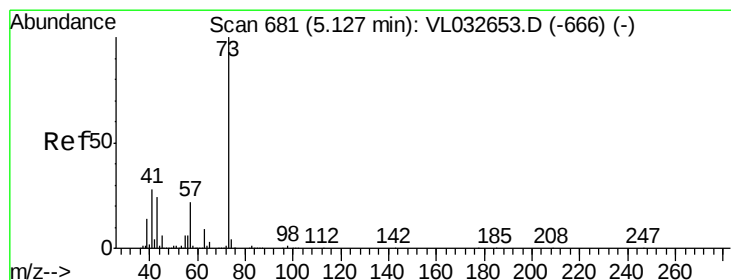
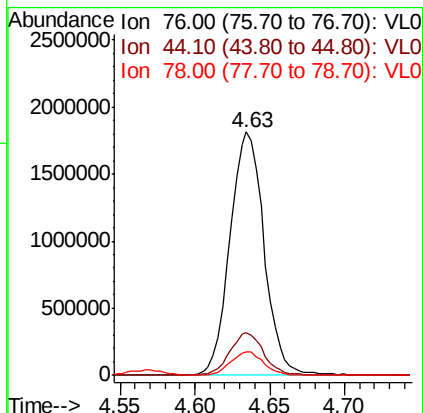
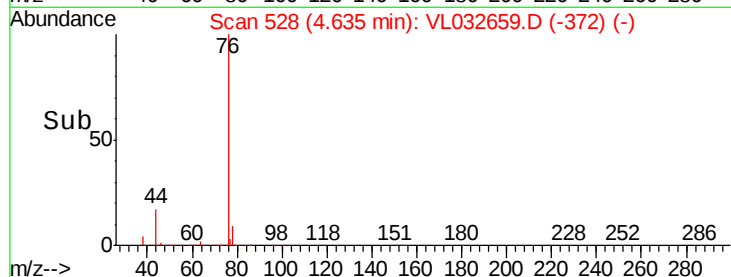
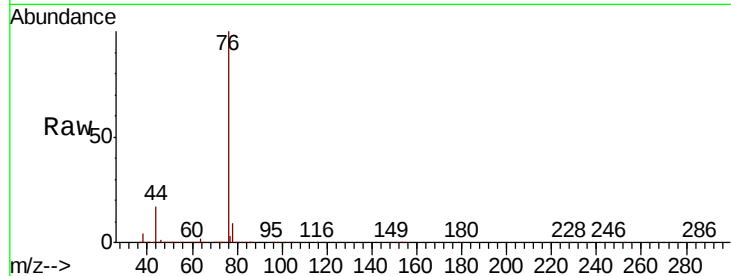
78 9.5 7.4 11.2

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#28

Methyl tert-Butyl Ether

Concen: 18.623 ppbv

RT: 5.13 min Scan# 682

Delta R.T. 0.00 min

Lab File: VL032659.D

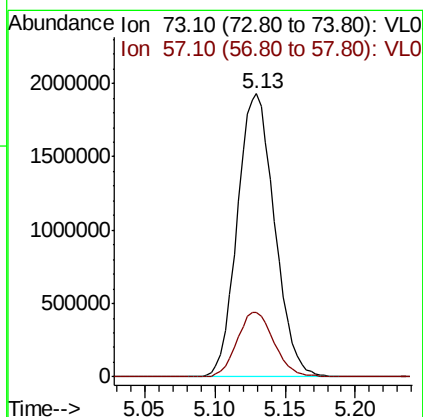
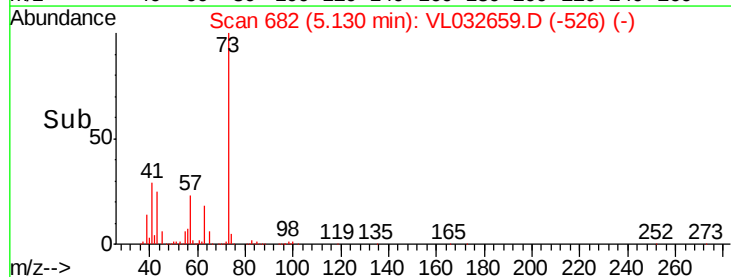
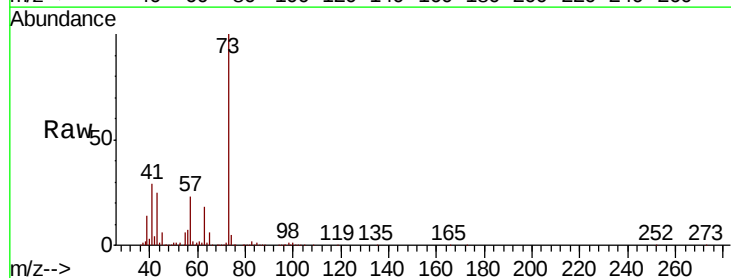
Acq: 18 Oct 2018 19:58

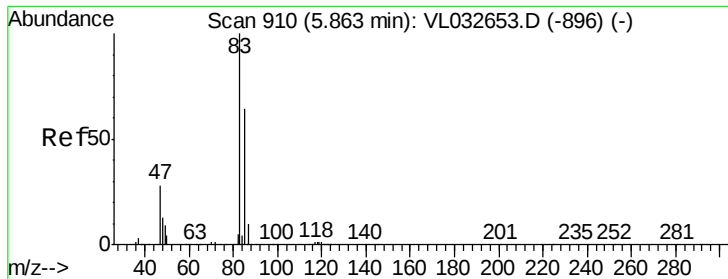
Tgt Ion: 73 Resp: 3564686

Ion Ratio Lower Upper

73 100

57 23.0 18.0 27.0





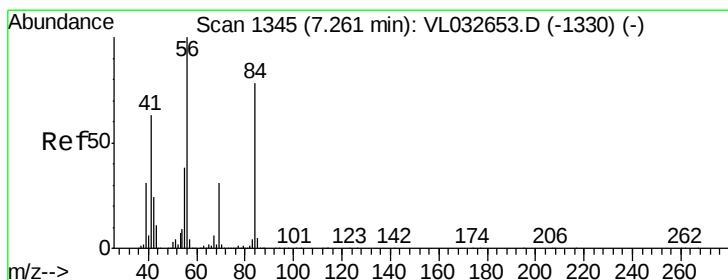
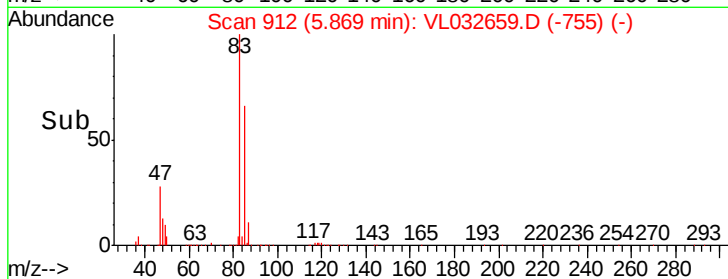
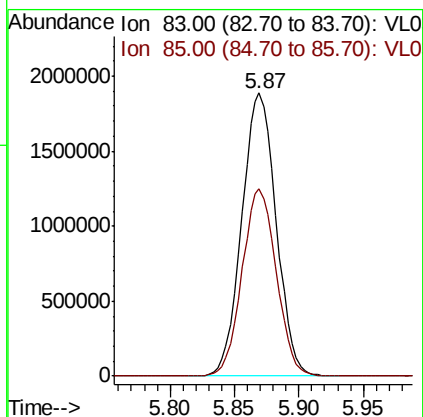
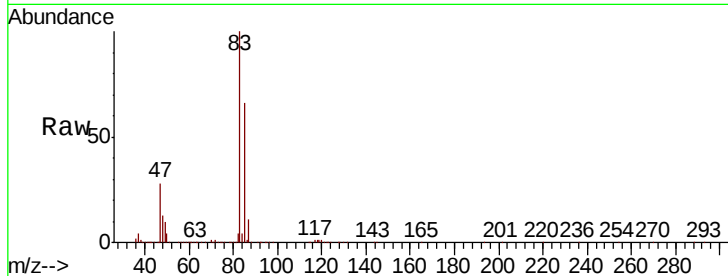
#29
Chloroform
Concen: 13.129 ppbv
RT: 5.87 min Scan# 912
Delta R.T. 0.01 min
Lab File: VL032659.D
Acq: 18 Oct 2018 19:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 3505003
Ion Ratio Lower Upper
83 100
85 66.2 53.0 79.6

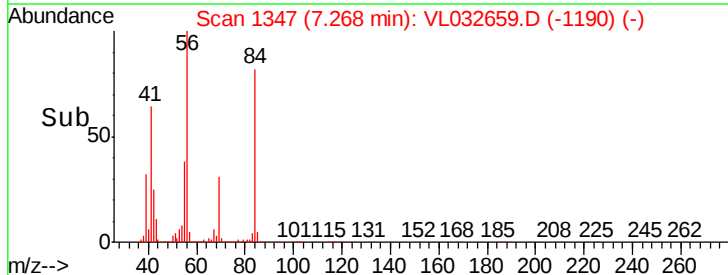
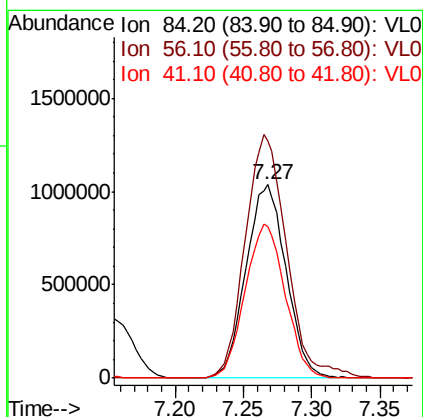
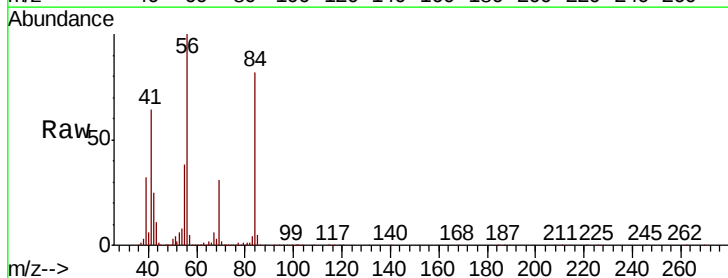
Manual Integrations
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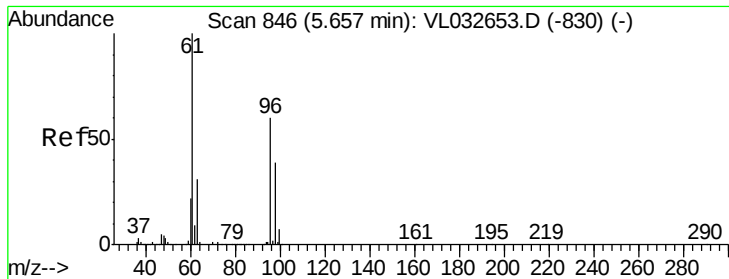
MMDadoda
10/24/2018 12:04:50 PM



#30
Cyclohexane
Concen: 17.635 ppbv
RT: 7.27 min Scan# 1347
Delta R.T. 0.01 min
Lab File: VL032659.D
Acq: 18 Oct 2018 19:58

Tgt Ion: 84 Resp: 2118315
Ion Ratio Lower Upper
84 100
56 130.5 108.3 162.5
41 79.4 64.8 97.2





#31

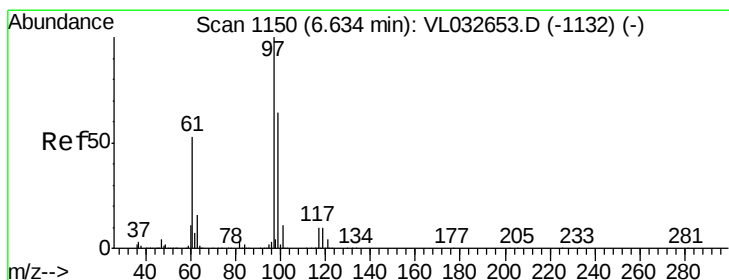
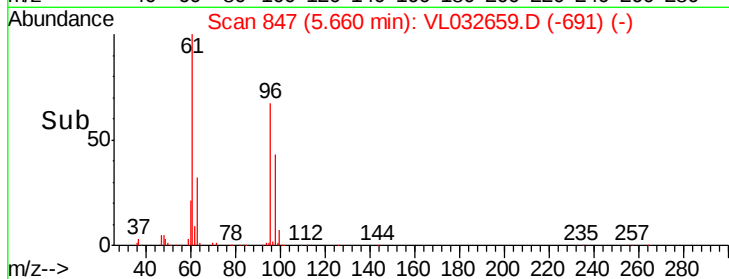
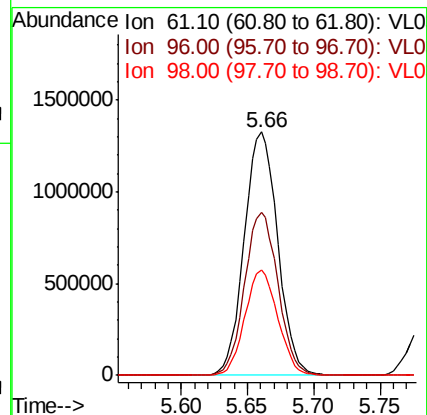
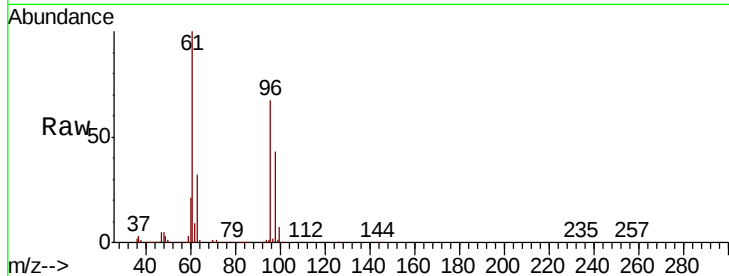
cis-1,2-Dichloroethene
 Concen: 15.920 ppbv
 RT: 5.66 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VL032659.D
 Acq: 18 Oct 2018 19:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
61	100		
96	66.7	51.8	77.6
98	43.3	33.8	50.6

Manual Integrations
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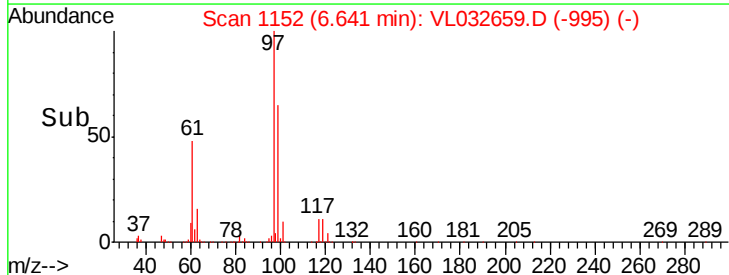
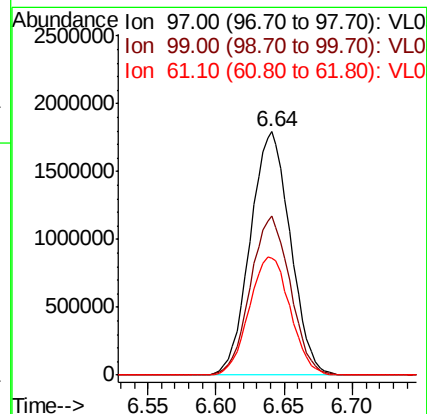
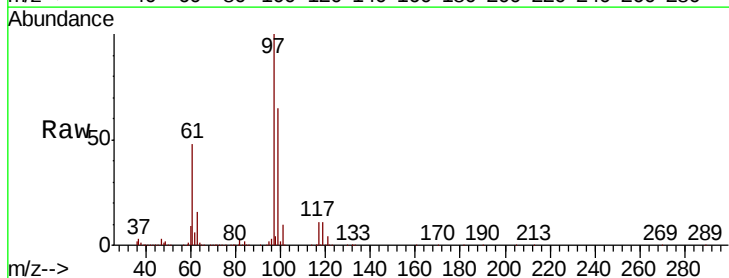
MMDadoda
 10/24/2018 12:04:50 PM

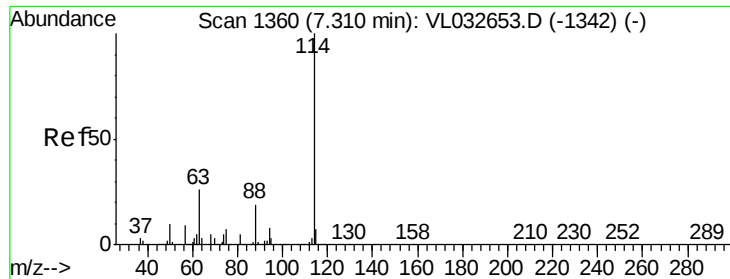


#32

1,1,1-Trichloroethane
 Concen: 13.741 ppbv
 RT: 6.64 min Scan# 1152
 Delta R.T. 0.01 min
 Lab File: VL032659.D
 Acq: 18 Oct 2018 19:58

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.0	52.0	78.0
61	49.8	40.7	61.1





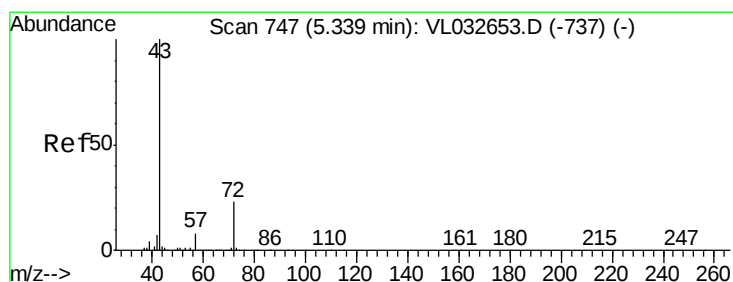
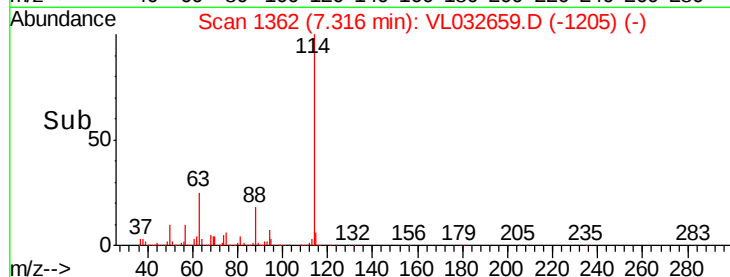
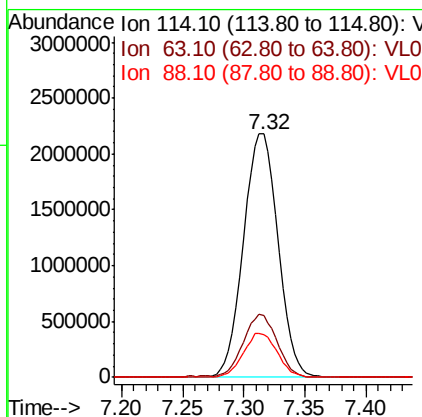
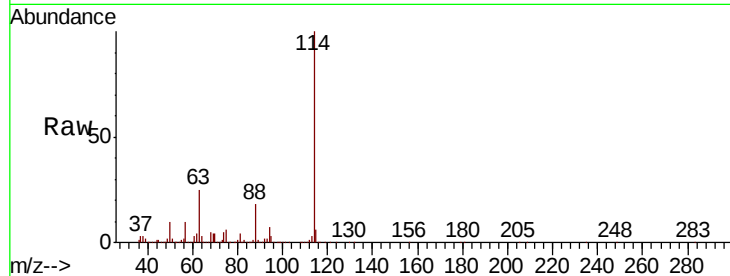
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.32 min Scan# 1362
 Delta R.T. 0.01 min
 Lab File: VL032659.D
 Acq: 18 Oct 2018 19:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:114 Resp: 4253675
 Ion Ratio Lower Upper
 114 100
 63 25.7 21.7 32.5
 88 17.7 14.9 22.3

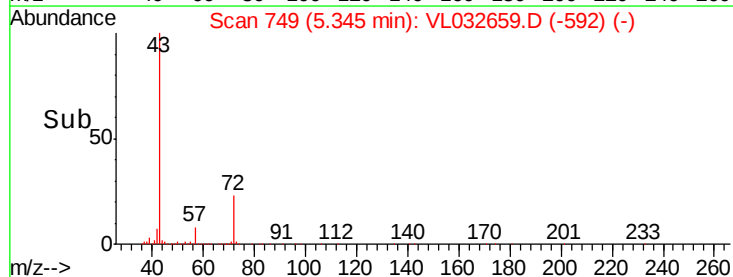
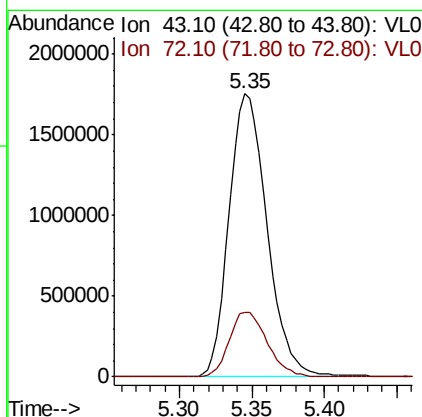
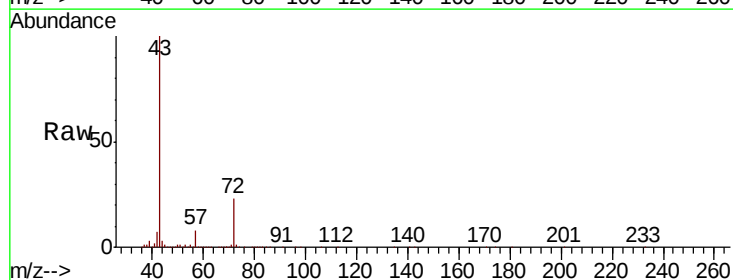
Manual Integrations
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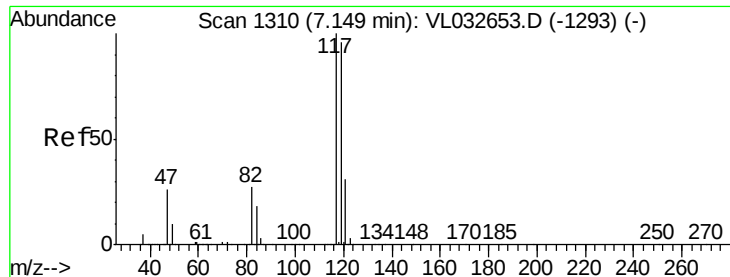
MMDadoda
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#34
 2-Butanone
 Concen: 13.452 ppbv
 RT: 5.35 min Scan# 749
 Delta R.T. 0.01 min
 Lab File: VL032659.D
 Acq: 18 Oct 2018 19:58

Tgt Ion: 43 Resp: 3175985
 Ion Ratio Lower Upper
 43 100
 72 23.1 18.6 27.8





#35

Carbon Tetrachloride

Concen: 12.072 ppbv

RT: 7.16 min Scan# 1312

Delta R.T. 0.01 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 3979526

Ion Ratio Lower Upper

117 100

119 96.5 75.7 113.5

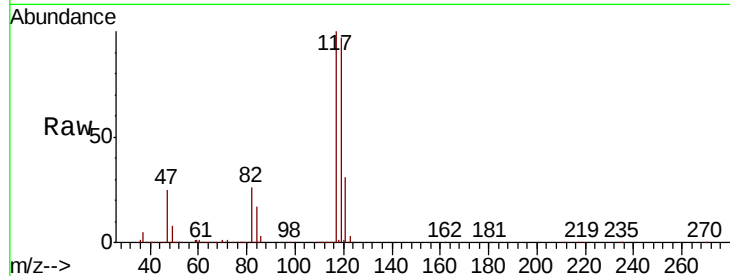
121 31.0 24.7 37.1

Manual Integrations

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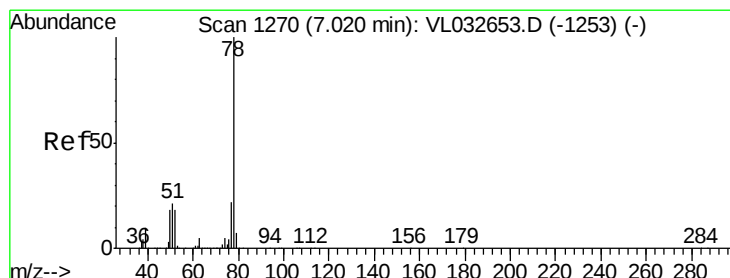
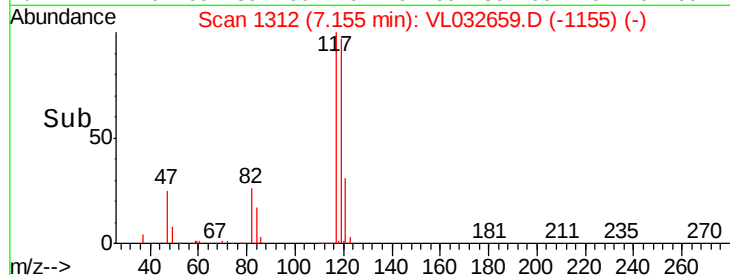
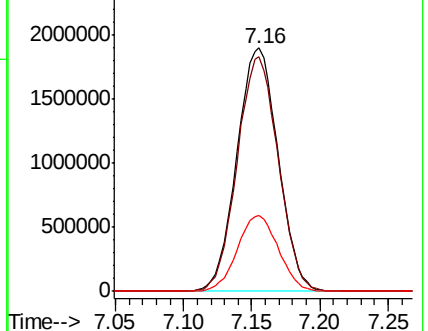
10/24/2018 12:04:50 PM



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: 14.429 ppbv

RT: 7.03 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

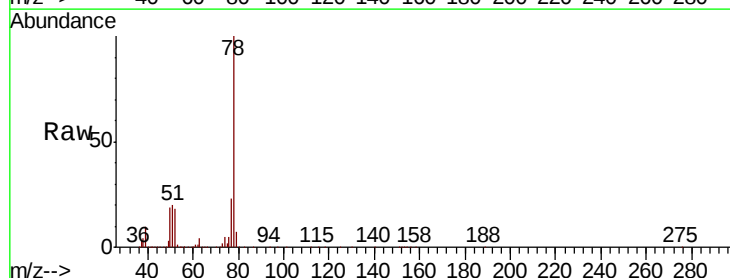
Tgt Ion: 78 Resp: 4974802

Ion Ratio Lower Upper

78 100

77 23.0 18.1 27.1

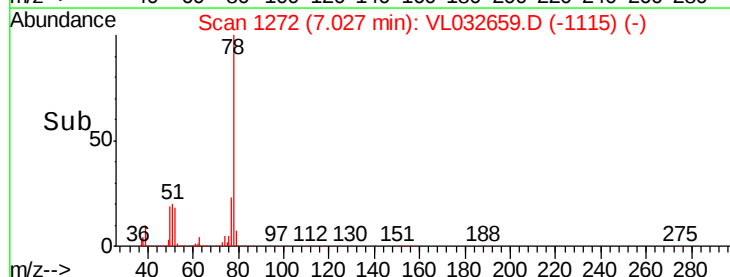
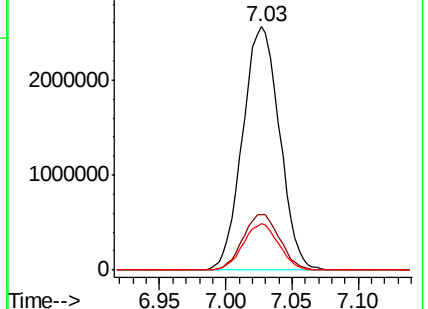
50 18.8 15.1 22.7

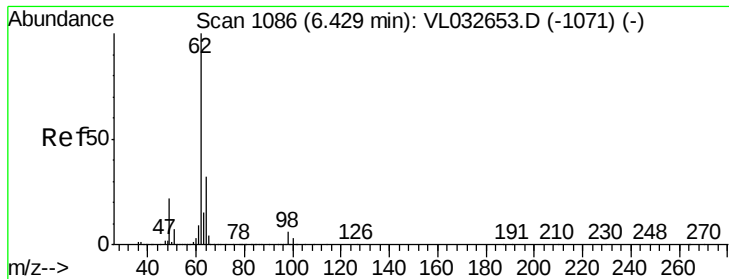


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 12.039 ppbv

RT: 6.43 min Scan# 1087

Delta R.T. 0.00 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 2846841

Ion Ratio Lower Upper

62 100

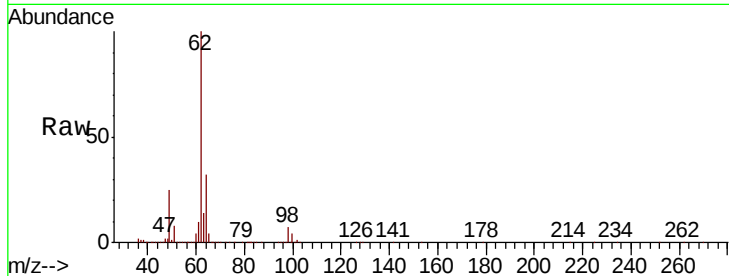
98 6.4 4.4 6.6

Manual Integrations

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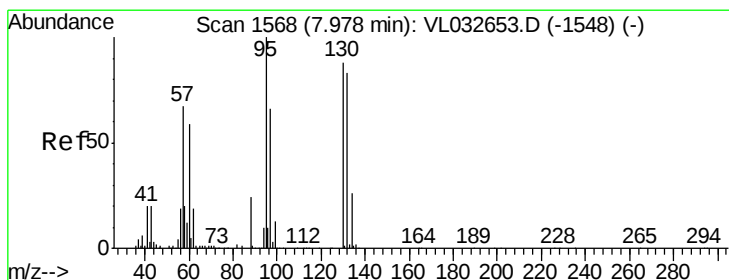
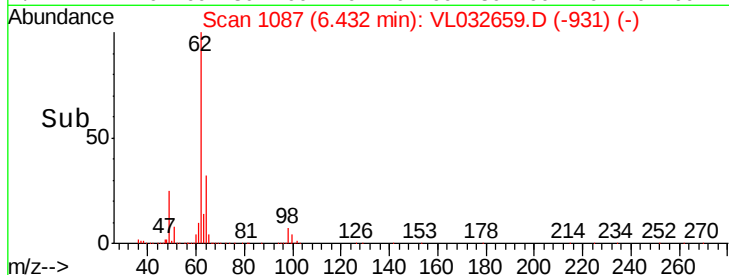
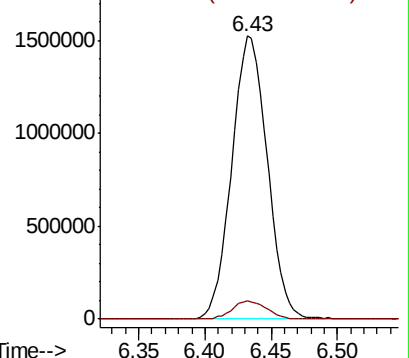
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 14.761 ppbv

RT: 7.98 min Scan# 1569

Delta R.T. 0.00 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

Tgt Ion:130 Resp: 1913543

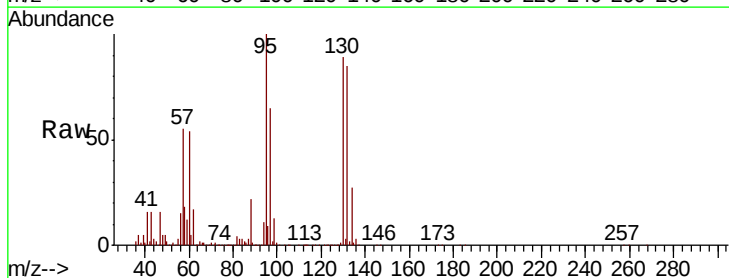
Ion Ratio Lower Upper

130 100

95 112.5 93.4 140.0

132 95.8 76.5 114.7

97 73.1 60.2 90.2

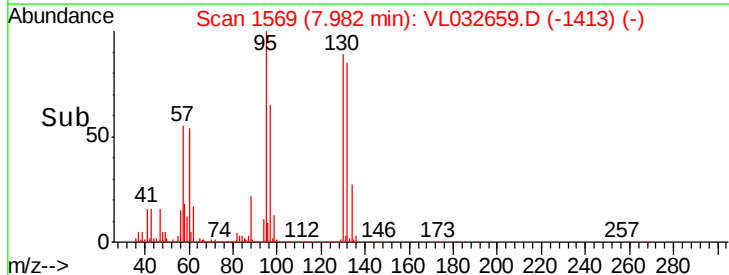
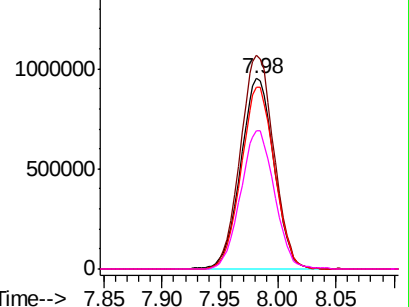


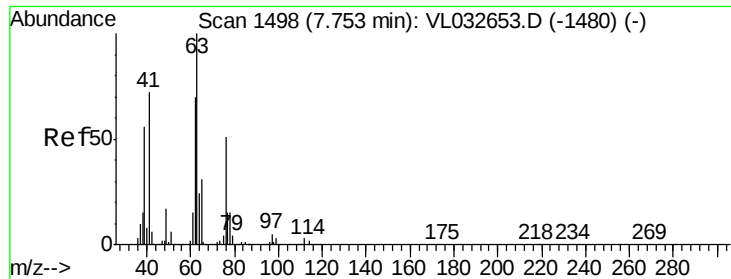
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 13.688 ppbv

RT: 7.76 min Scan# 1499

Delta R.T. 0.00 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 63 Resp: 1919847

Ion Ratio Lower Upper

63 100

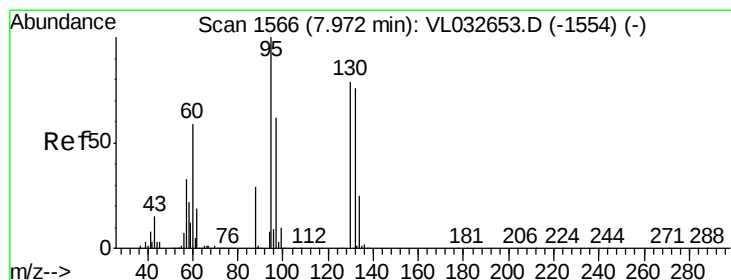
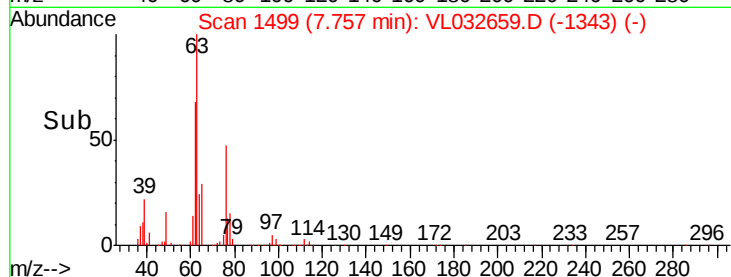
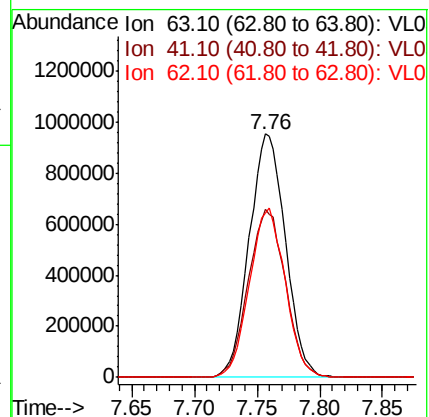
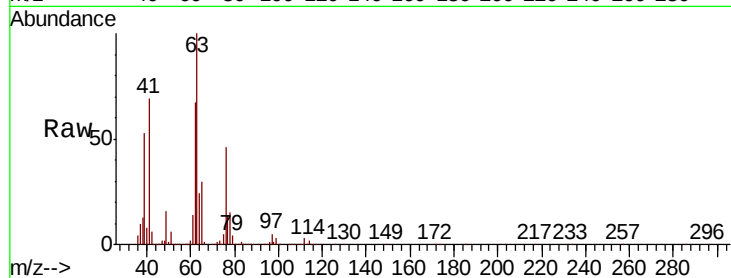
41 68.8 56.2 84.4

62 67.2 54.4 81.6

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#40

1,4-Dioxane

Concen: 13.465 ppbv

RT: 7.98 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

Tgt Ion: 88 Resp: 652473

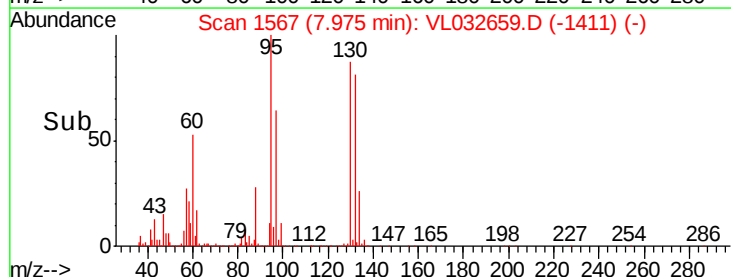
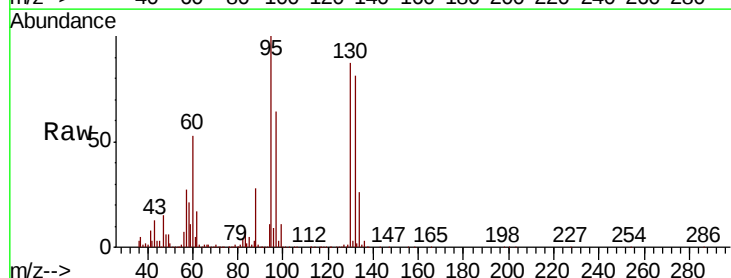
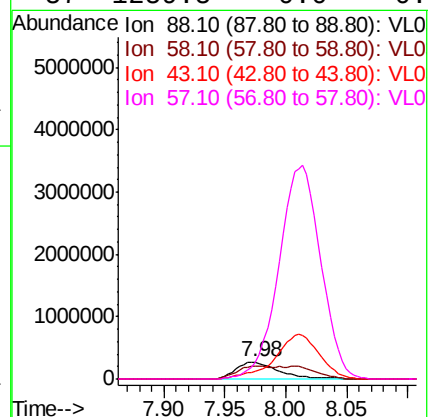
Ion Ratio Lower Upper

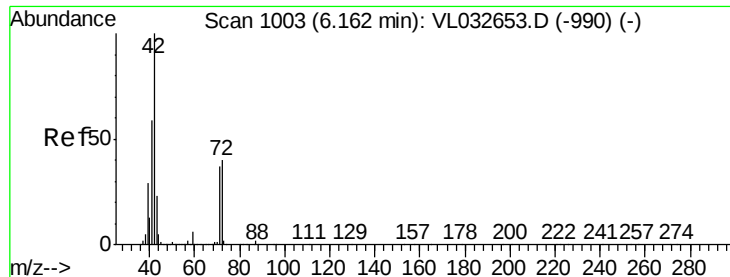
88 100

58 131.6 104.0 156.0

43 278.2 0.0 0.0#

57 1259.5 0.0 0.0#





#41

Tetrahydrofuran

Concen: 16.102 ppbv

RT: 6.16 min Scan# 1004

Delta R.T. 0.00 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

Instrument :

MSVOA_L

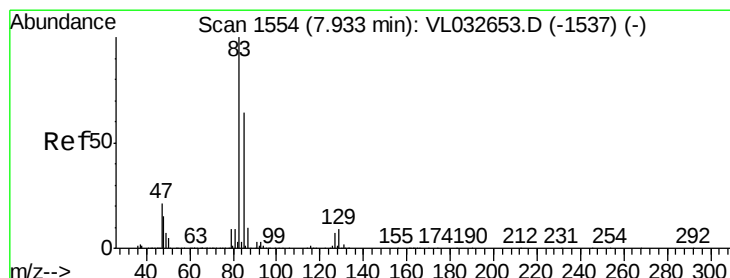
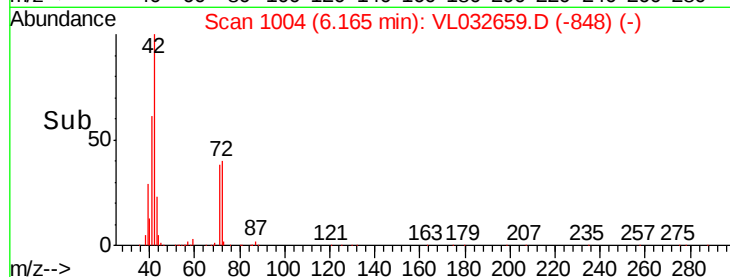
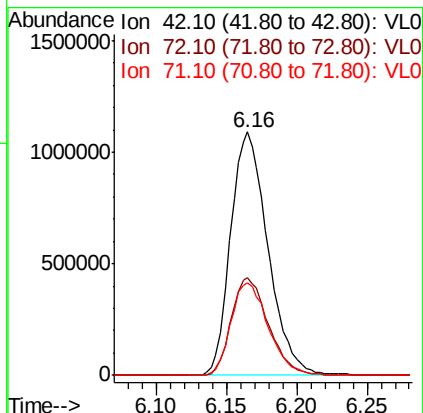
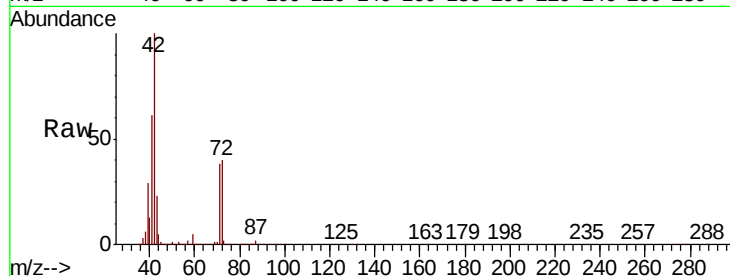
ClientSampleId :

VSTDIC015

Tot Ion:	42	Resp:	2016937
Ion	Ratio	Lower	Upper
42	100		
72	40.0	32.4	48.6
71	38.4	31.3	46.9

Manual Integrations
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#42

Bromodichloromethane

Concen: 12.607 ppbv

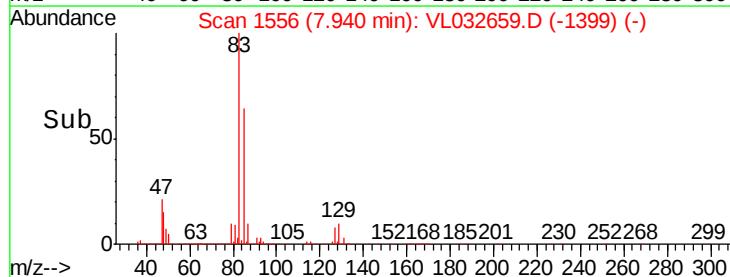
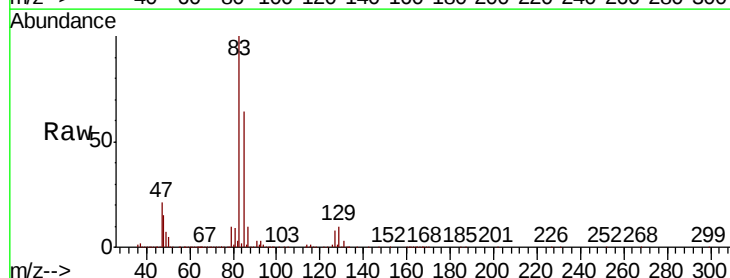
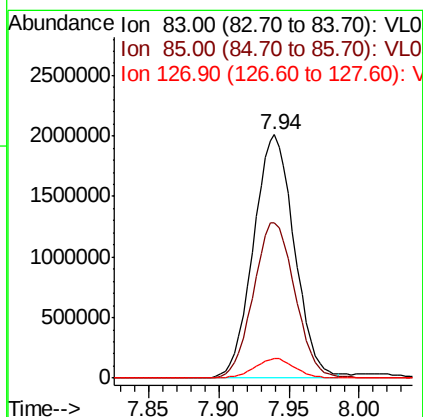
RT: 7.94 min Scan# 1556

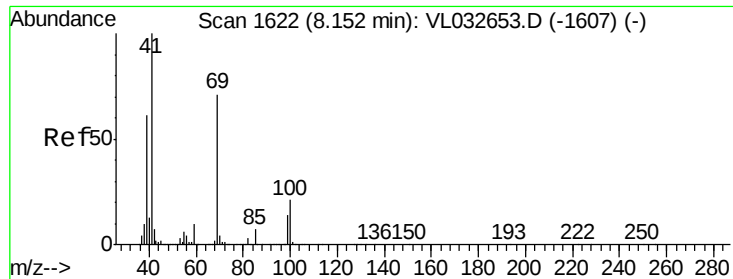
Delta R.T. 0.01 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

Tgt Ion:	83	Resp:	4063822
Ion	Ratio	Lower	Upper
83	100		
85	63.9	52.4	78.6
127	8.2	6.1	9.1





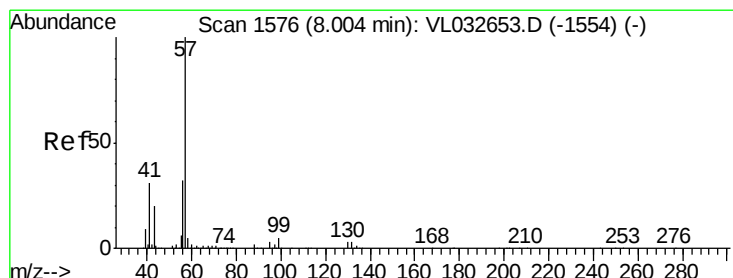
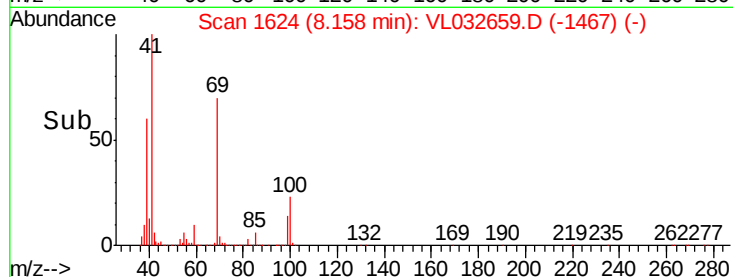
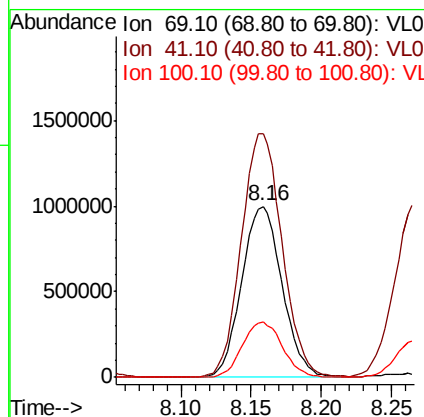
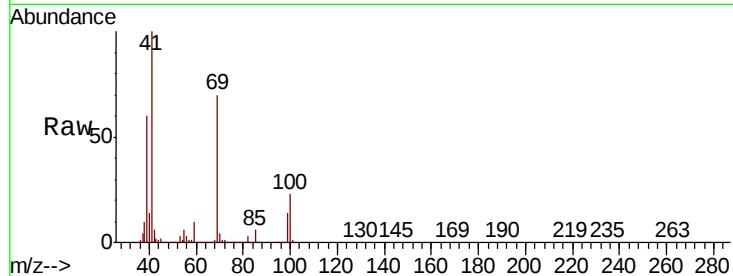
#43
Methvl Methacrylate
Concen: 14.988 ppbv
RT: 8.16 min Scan# 1624
Delta R.T. 0.01 min
Lab File: VL032659.D
Acq: 18 Oct 2018 19:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 69 Resp: 2003683
Ion Ratio Lower Upper
69 100
41 143.6 113.2 169.8
100 32.5 24.4 36.6

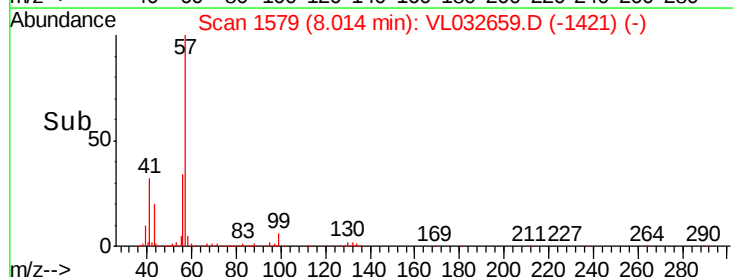
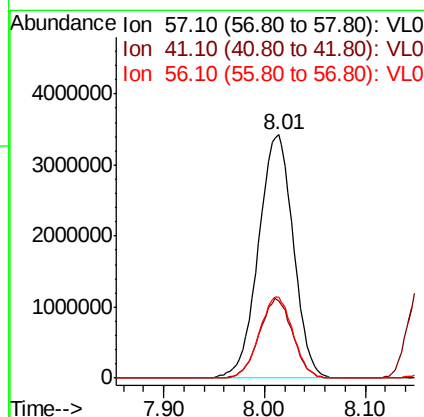
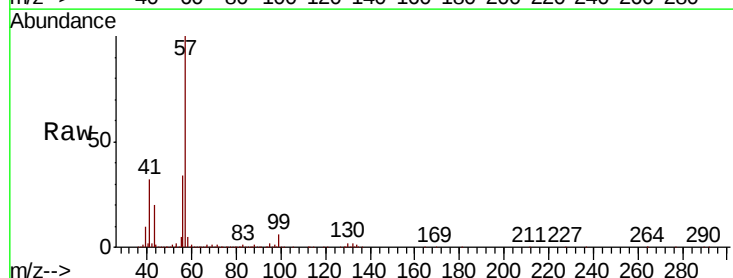
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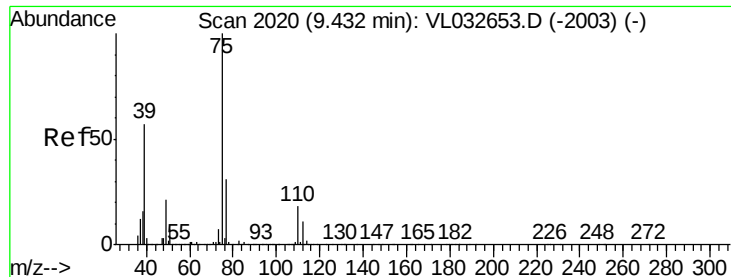
MMDadoda
10/24/2018 12:04:50 PM



#44
2,2,4-Trimethylpentane
Concen: 13.429 ppbv
RT: 8.01 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VL032659.D
Acq: 18 Oct 2018 19:58

Tgt Ion: 57 Resp: 8208411
Ion Ratio Lower Upper
57 100
41 31.3 24.7 37.1
56 32.3 25.0 37.4





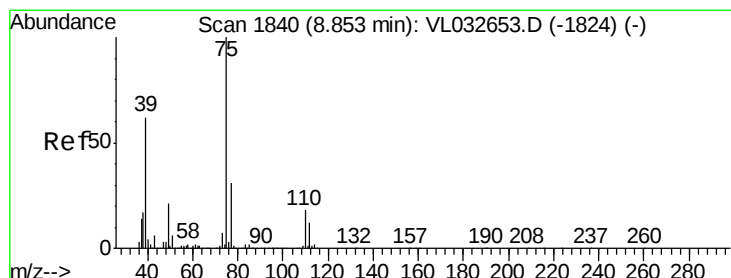
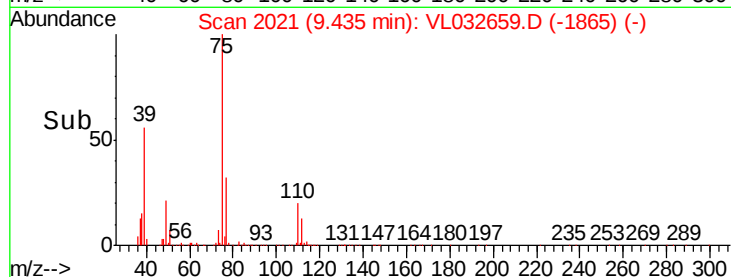
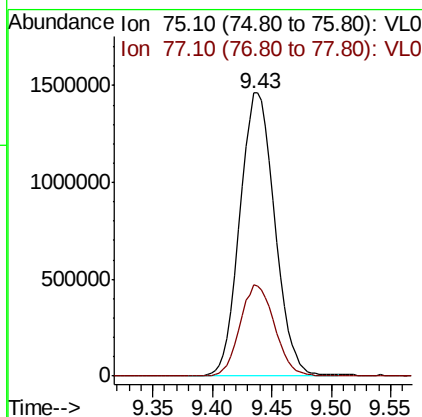
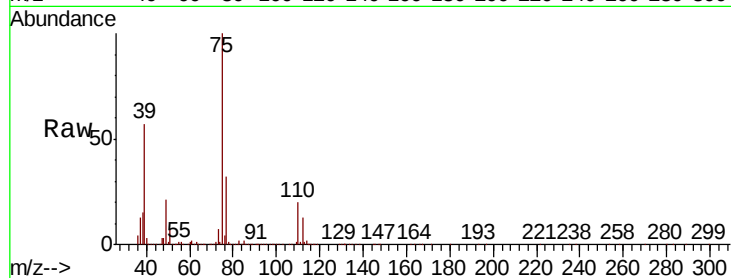
#45
 t-1,3-Dichloropropene
 Concen: 17.053 ppbv
 RT: 9.43 min Scan# 2021
 Delta R.T. 0.00 min
 Lab File: VL032659.D
 Acq: 18 Oct 2018 19:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 75 Resp: 2980826
 Ion Ratio Lower Upper
 75 100
 77 32.1 25.3 37.9

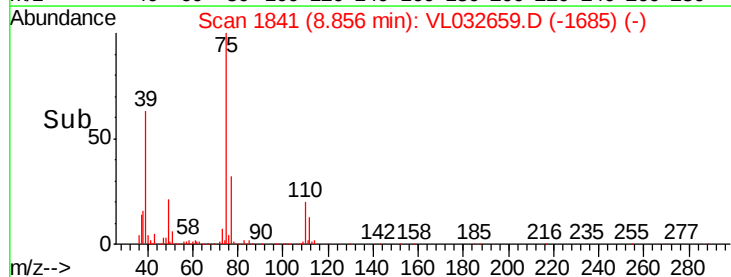
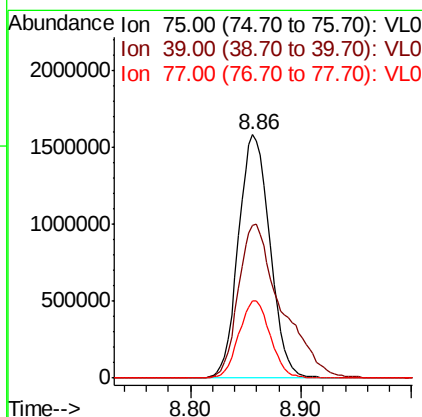
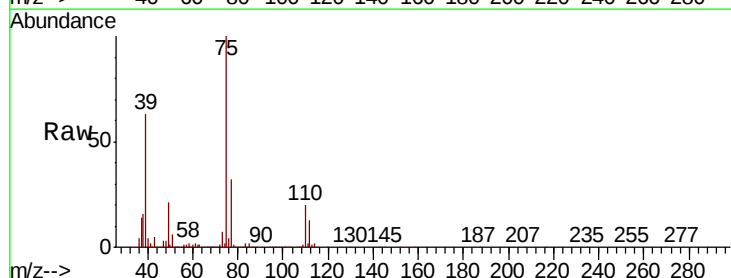
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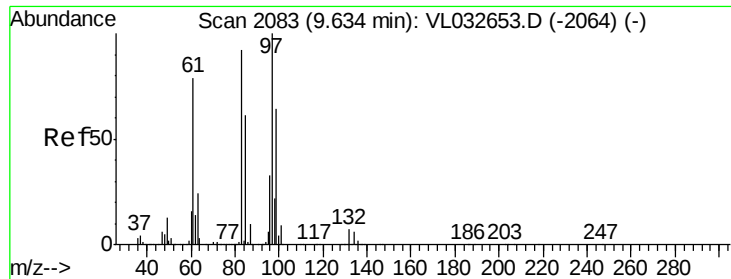
MMDadoda
 10/24/2018 12:04:50 PM



#46
 cis-1,3-Dichloropropene
 Concen: 15.735 ppbv
 RT: 8.86 min Scan# 1841
 Delta R.T. 0.00 min
 Lab File: VL032659.D
 Acq: 18 Oct 2018 19:58

Tgt Ion: 75 Resp: 3131311
 Ion Ratio Lower Upper
 75 100
 39 62.7 50.9 76.3
 77 31.5 25.8 38.6





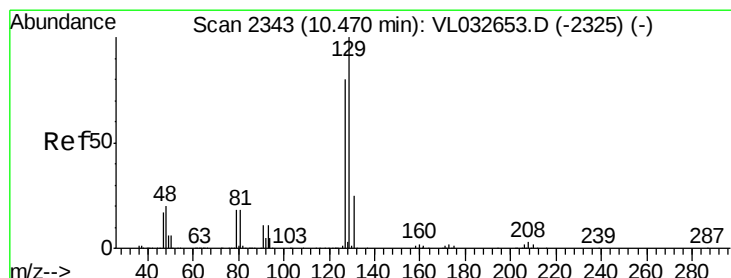
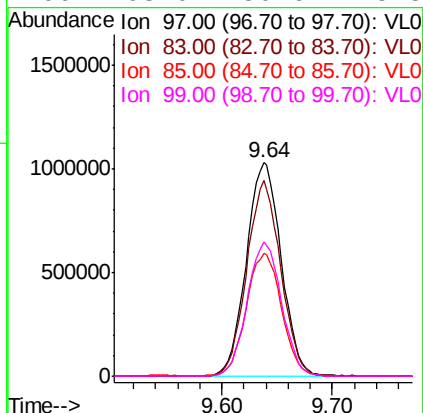
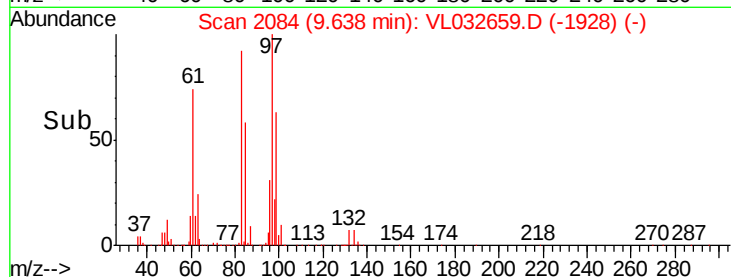
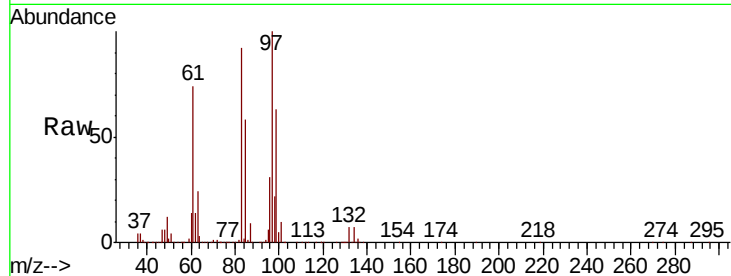
#47
 1,1,2-Trichloroethane
 Concen: 13.408 ppbv
 RT: 9.64 min Scan# 2084
 Delta R.T. 0.00 min
 Lab File: VL032659.D
 Acq: 18 Oct 2018 19:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
97	100		
83	91.5	73.5	110.3
85	57.4	45.8	68.6
99	63.0	50.6	75.8

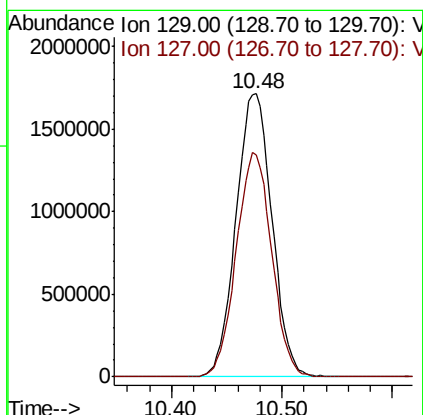
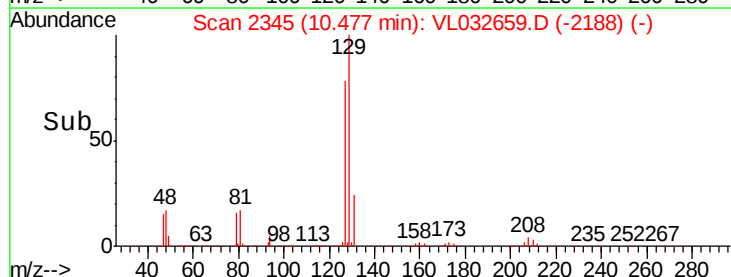
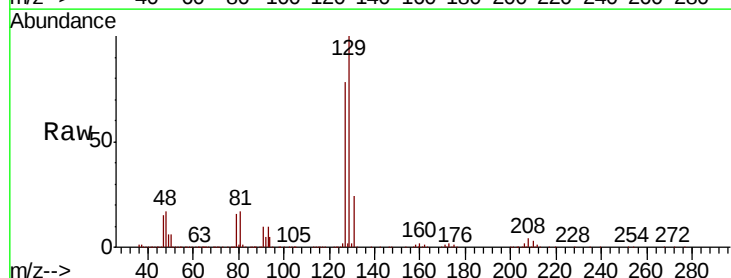
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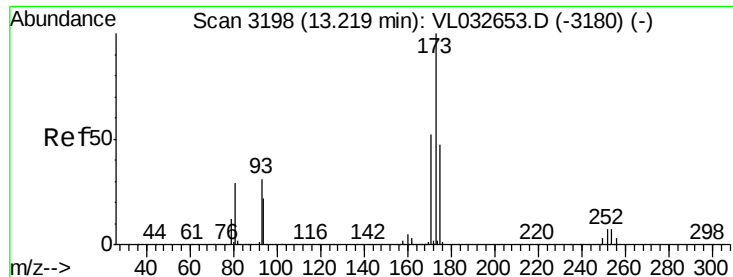
MMDadoda
 10/24/2018 12:04:50 PM



#48
 Dibromochloromethane
 Concen: 13.615 ppbv
 RT: 10.48 min Scan# 2345
 Delta R.T. 0.01 min
 Lab File: VL032659.D
 Acq: 18 Oct 2018 19:58

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.2	39.1	117.5





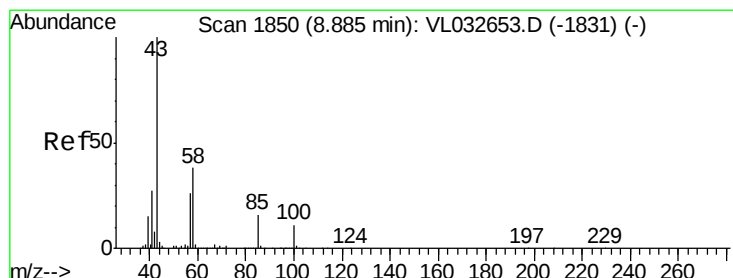
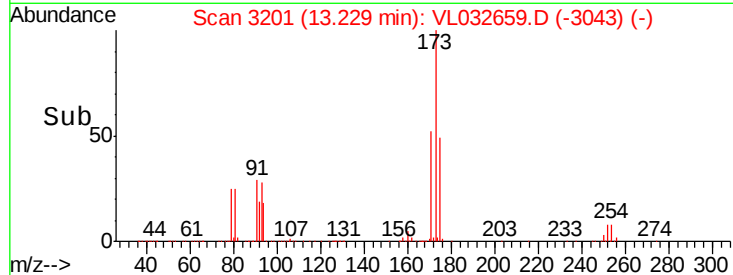
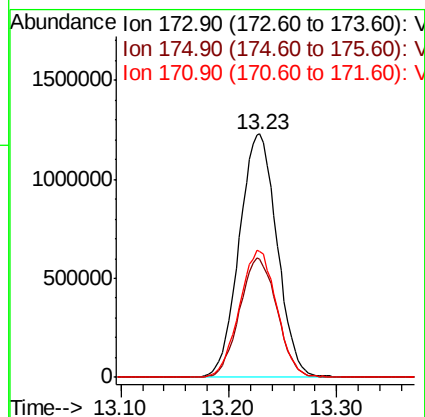
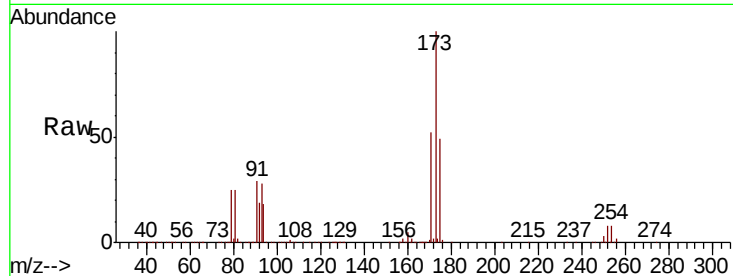
#49
Bromoform
Concen: 13.928 ppbv
RT: 13.23 min Scan# 3201
Delta R.T. 0.01 min
Lab File: VL032659.D
Acq: 18 Oct 2018 19:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:173 Resp: 2996071
Ion Ratio Lower Upper
173 100
175 48.7 39.0 58.4
171 51.6 42.2 63.2

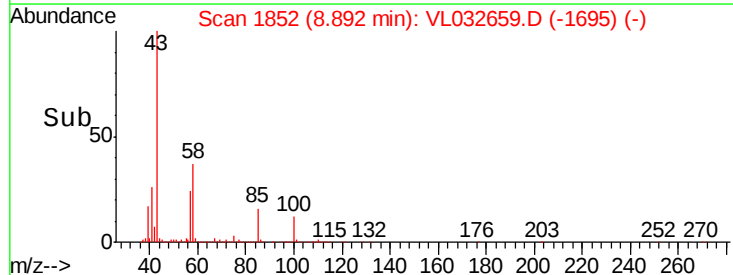
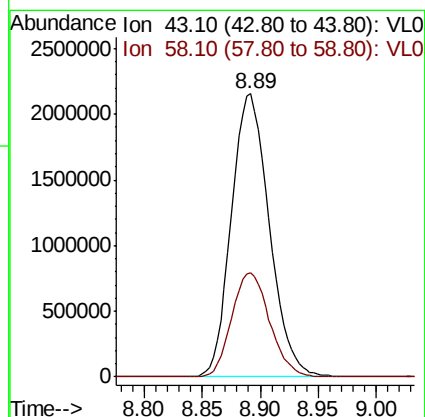
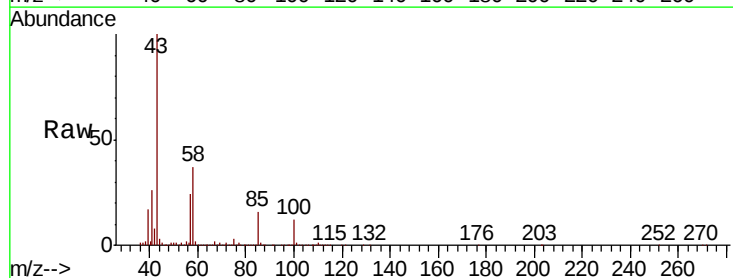
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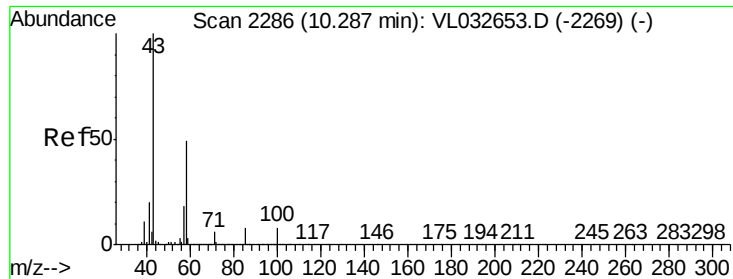
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 14.067 ppbv
RT: 8.89 min Scan# 1852
Delta R.T. 0.01 min
Lab File: VL032659.D
Acq: 18 Oct 2018 19:58

Tgt Ion: 43 Resp: 4888081
Ion Ratio Lower Upper
43 100
58 37.0 29.7 44.5





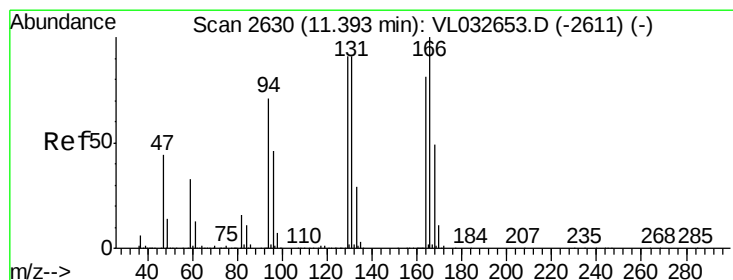
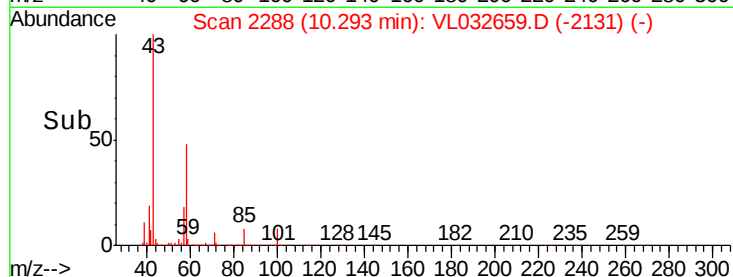
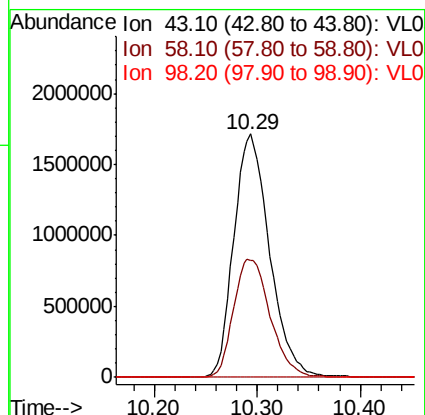
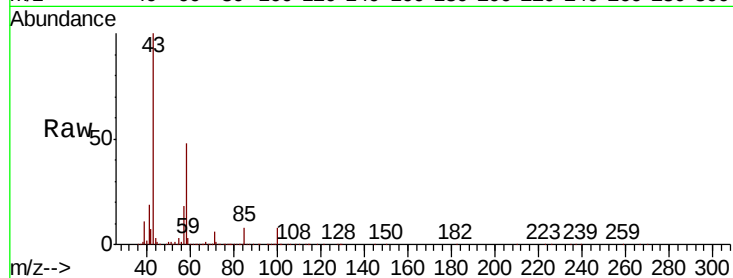
#51
2-Hexanone
Concen: 15.148 ppbv
RT: 10.29 min Scan# 2286
Delta R.T. 0.01 min
Lab File: VL032659.D
Acq: 18 Oct 2018 19:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
43	100		
58	50.1	40.4	60.6
98	0.4	0.4	0.6

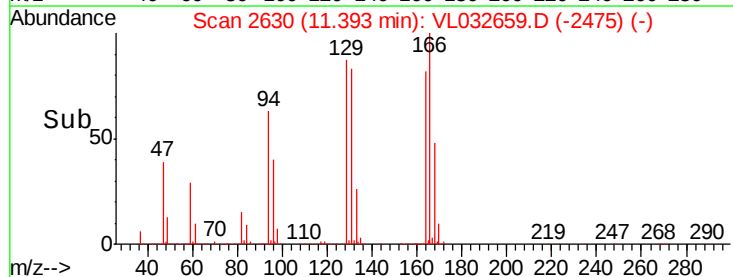
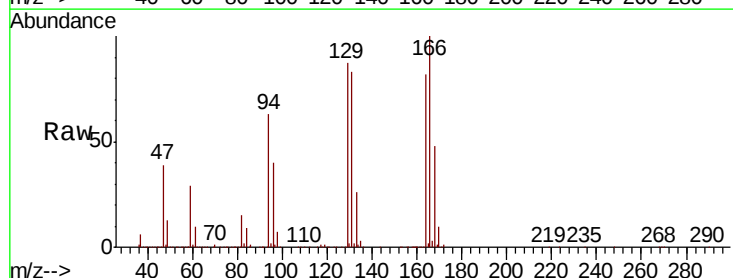
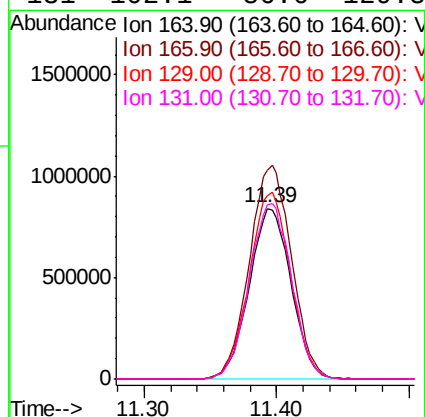
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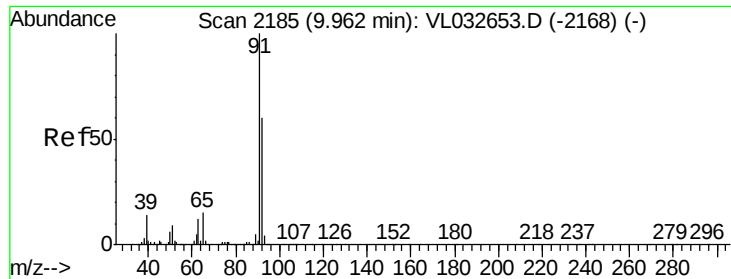
MMDadoda
10/24/2018 12:04:50 PM



#52
Tetrachloroethene
Concen: 16.218 ppbv
RT: 11.39 min Scan# 2630
Delta R.T. -0.00 min
Lab File: VL032659.D
Acq: 18 Oct 2018 19:58

Tgt Ion	Ratio	Lower	Upper
164	100		
166	122.5	100.5	150.7
129	107.2	90.0	135.0
131	102.1	86.6	129.8





#53

Toluene

Concen: 15.934 ppbv

RT: 9.97 min Scan# 2187

Delta R.T. 0.01 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 6263394

Ion Ratio Lower Upper

91 100

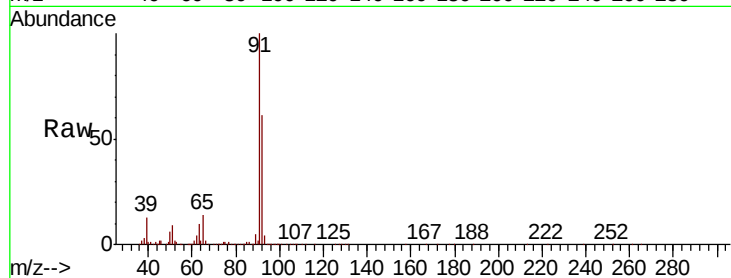
92 60.5 48.4 72.6

Manual Integrations

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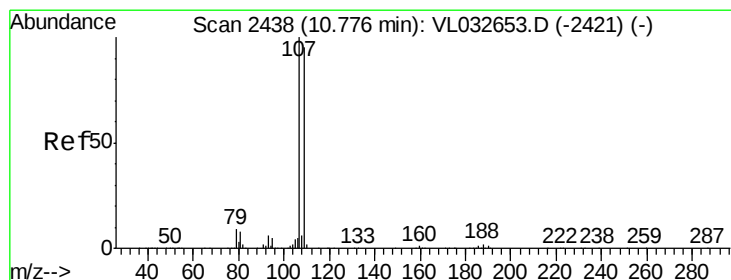
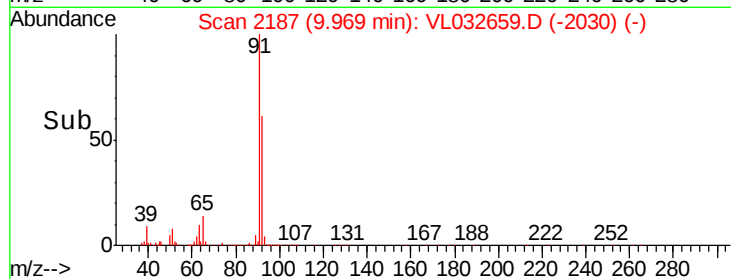
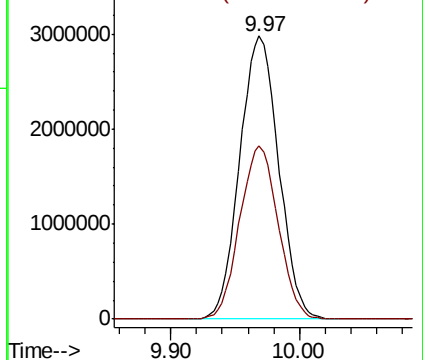
MMDadoda

10/24/2018 12:04:50 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 13.236 ppbv

RT: 10.79 min Scan# 2441

Delta R.T. 0.01 min

Lab File: VL032659.D

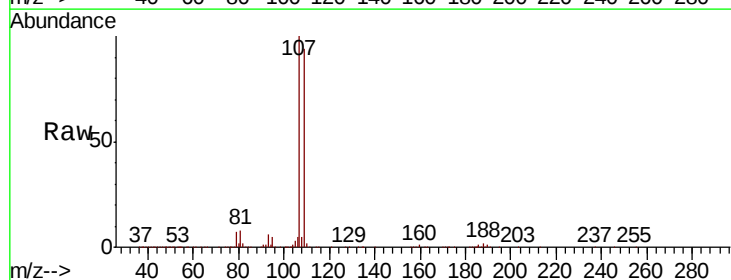
Acq: 18 Oct 2018 19:58

Tgt Ion: 107 Resp: 3176755

Ion Ratio Lower Upper

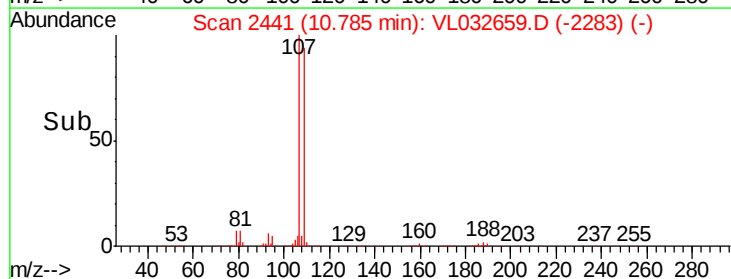
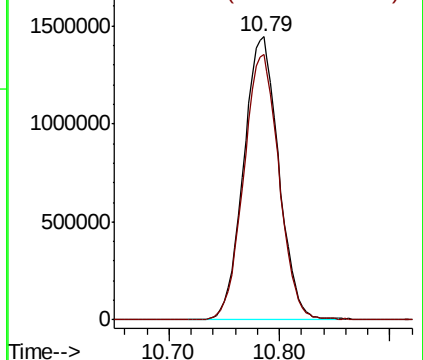
107 100

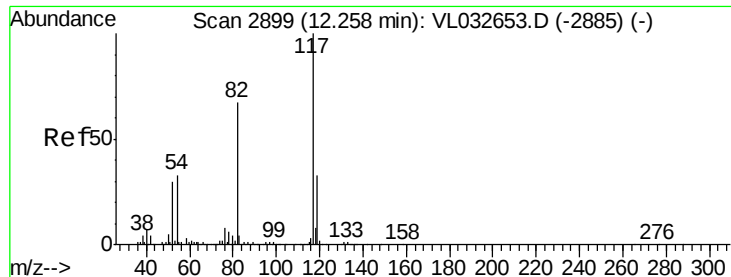
109 93.8 75.3 112.9



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





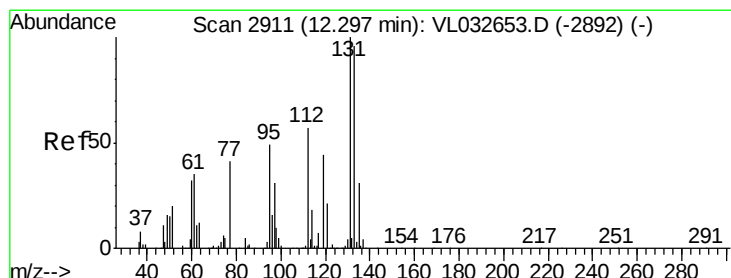
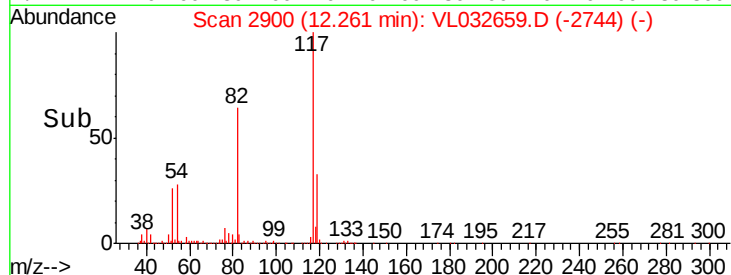
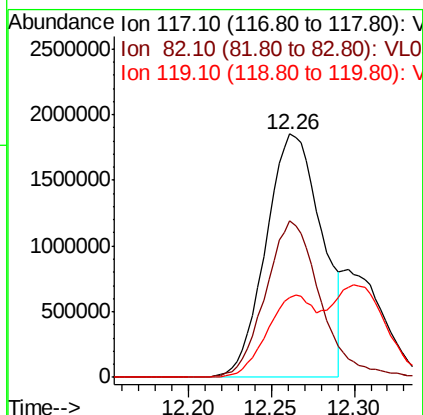
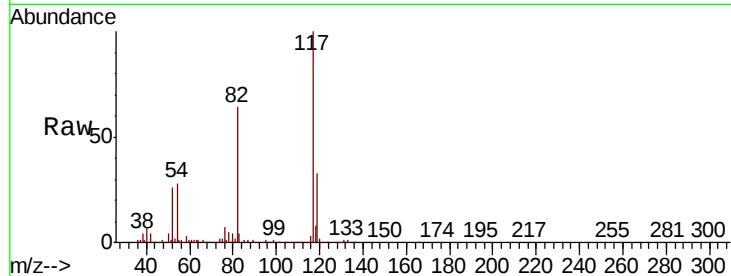
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.26 min Scan# 2900
Delta R.T. 0.00 min
Lab File: VL032659.D
Acq: 18 Oct 2018 19:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 4325221
Ion Ratio Lower Upper
117 100
82 63.5 52.7 79.1
119 0.0 26.7 40.1#

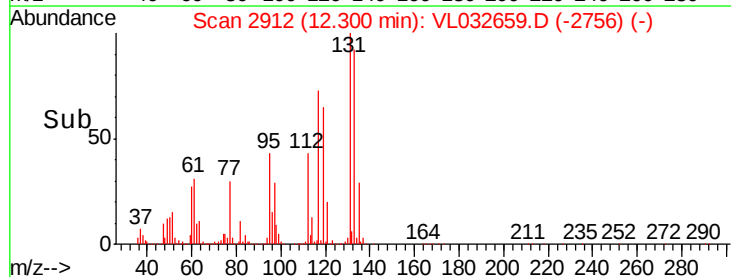
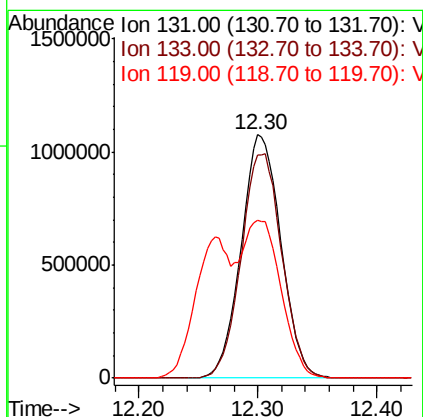
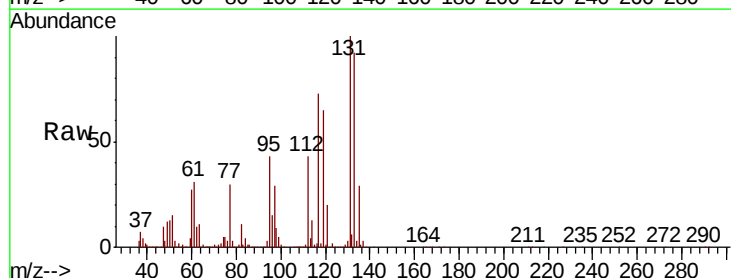
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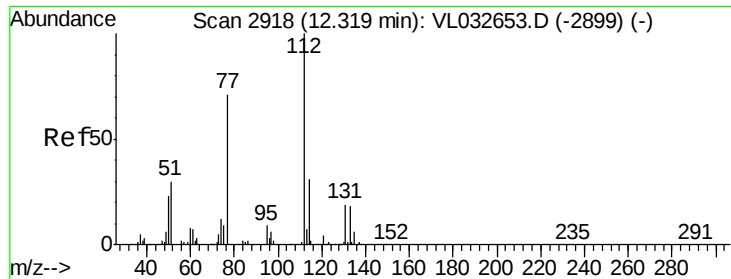
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 12.527 ppbv
RT: 12.30 min Scan# 2912
Delta R.T. 0.00 min
Lab File: VL032659.D
Acq: 18 Oct 2018 19:58

Tgt Ion:131 Resp: 2488020
Ion Ratio Lower Upper
131 100
133 94.6 75.4 113.2
119 117.5 49.1 73.7#





#57

Chlorobenzene

Concen: 12.921 ppbv

RT: 12.33 min Scan# 2920

Delta R.T. 0.01 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:112 Resp: 4250313

Ion Ratio Lower Upper

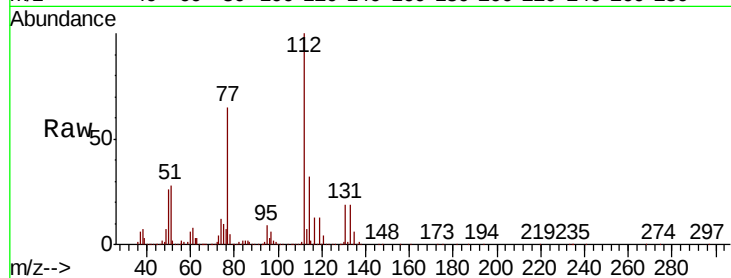
112 100

77 65.3 56.8 85.2

114 32.4 30.3 37.1

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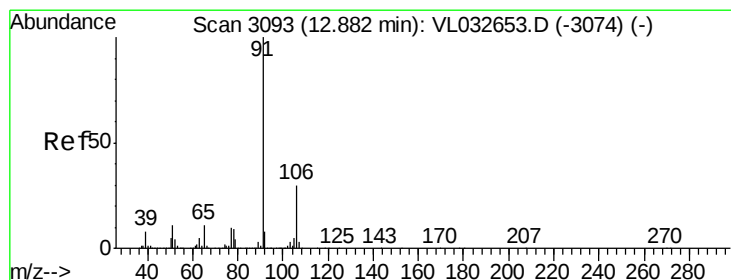
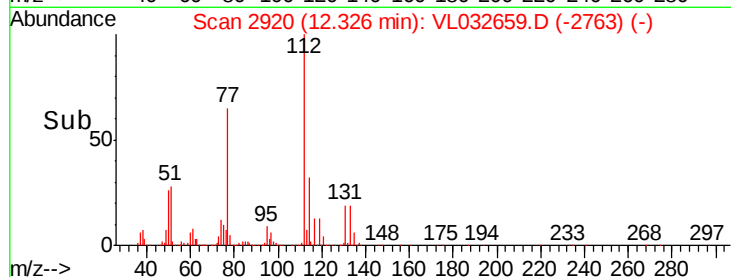
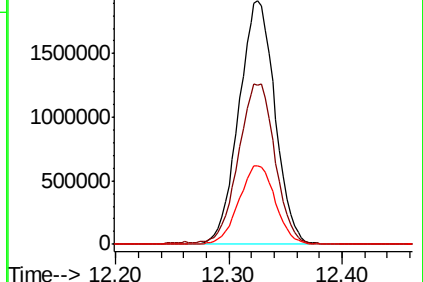
MMDadoda
10/24/2018 12:04:50 PM



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: 15.716 ppbv

RT: 12.89 min Scan# 3095

Delta R.T. 0.01 min

Lab File: VL032659.D

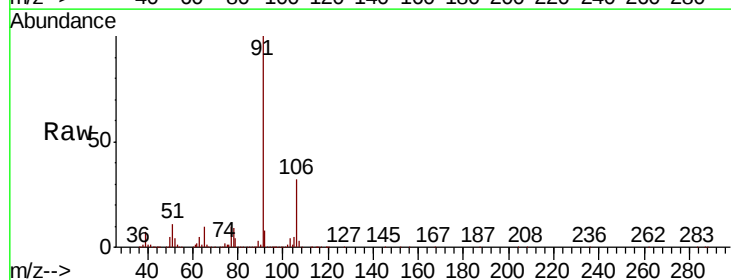
Acq: 18 Oct 2018 19:58

Tgt Ion: 91 Resp: 7633792

Ion Ratio Lower Upper

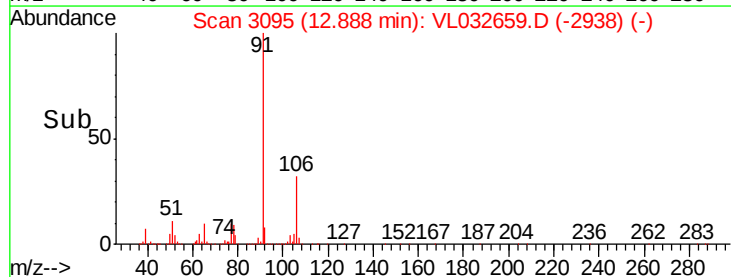
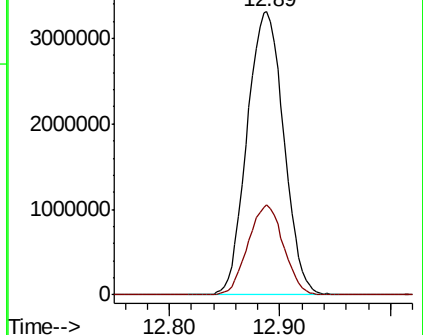
91 100

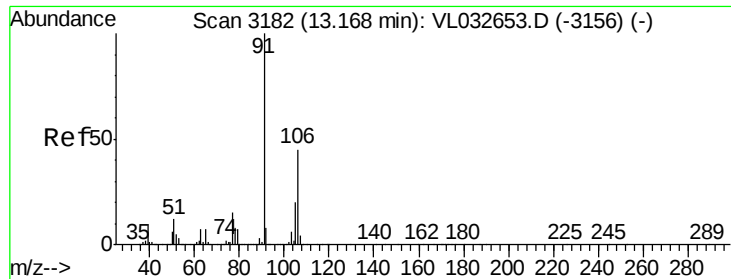
106 31.8 24.2 36.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





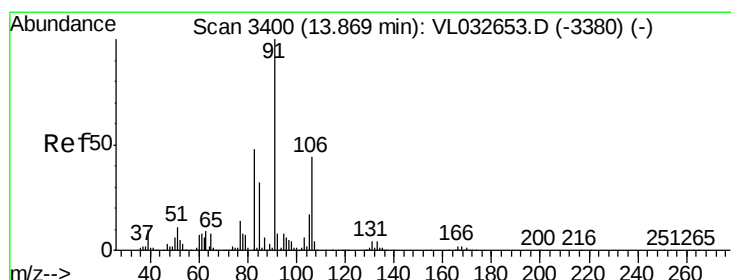
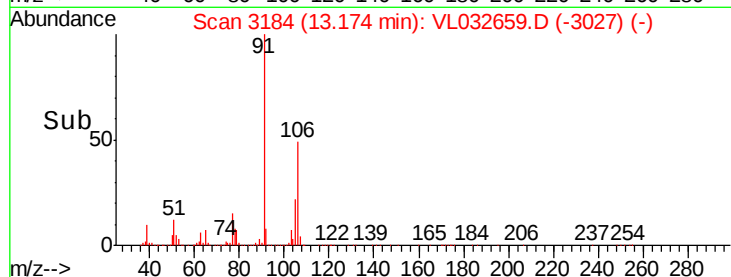
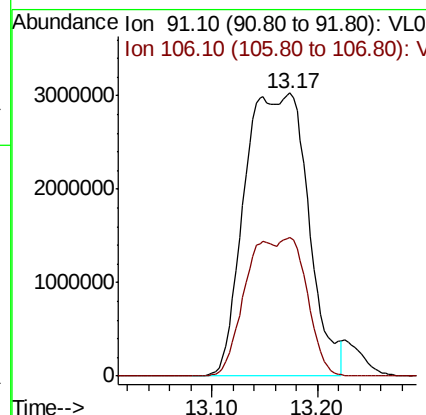
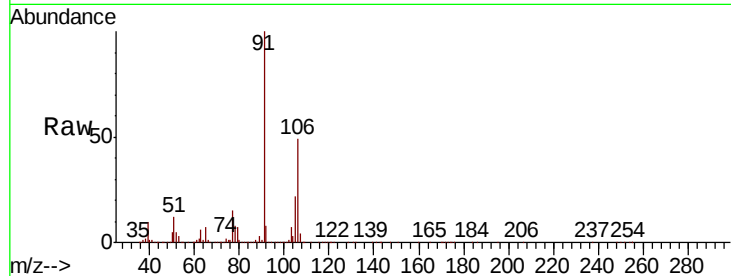
#59
m/p-Xylene
Concen: 29.151 ppbv m
RT: 13.17 min Scan# 3184
Delta R.T. 0.01 min
Lab File: VL032659.D
Acq: 18 Oct 2018 19:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp:12639949
Ion Ratio Lower Upper
91 100
106 46.4 35.9 53.9

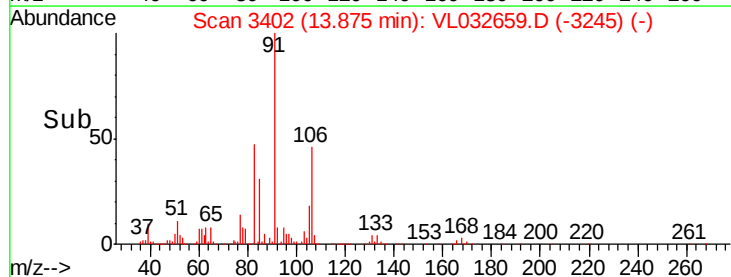
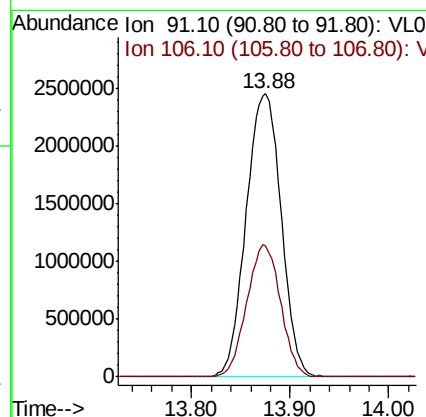
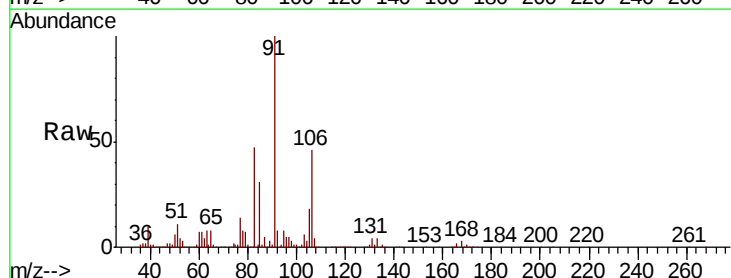
Manual Integrations
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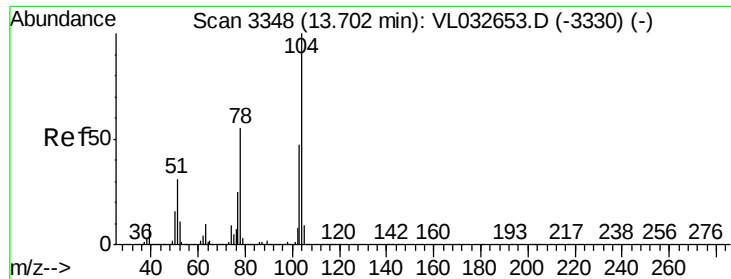
MMDadoda
10/24/2018 12:04:50 PM



#60
o-Xylene
Concen: 13.957 ppbv
RT: 13.88 min Scan# 3402
Delta R.T. 0.01 min
Lab File: VL032659.D
Acq: 18 Oct 2018 19:58

Tgt Ion: 91 Resp: 6030256
Ion Ratio Lower Upper
91 100
106 45.0 22.1 66.1





#61

Stvrene

Concen: 18.176 ppbv

RT: 13.71 min Scan# 3350

Delta R.T. 0.01 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:104 Resp: 4759401

Ion Ratio Lower Upper

104 100

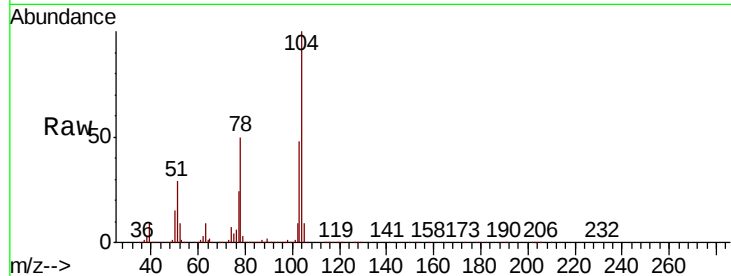
78 50.9 42.8 64.2

103 47.7 37.4 56.0

Manual Integrations
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MMDadoda

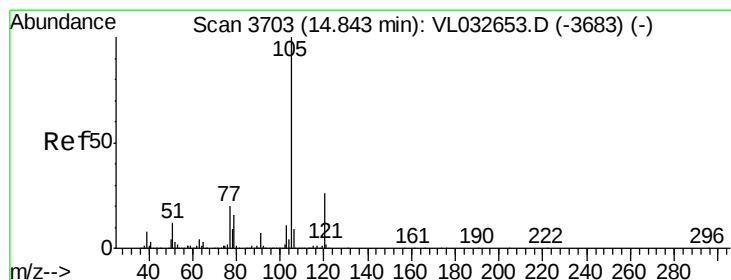
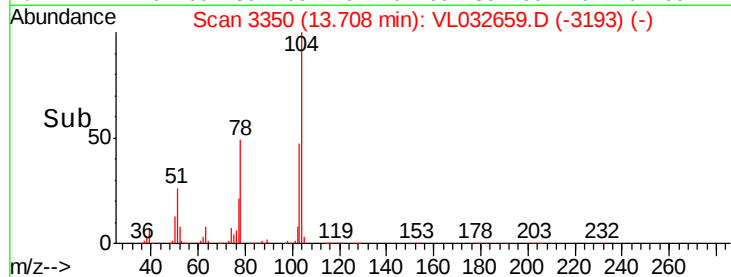
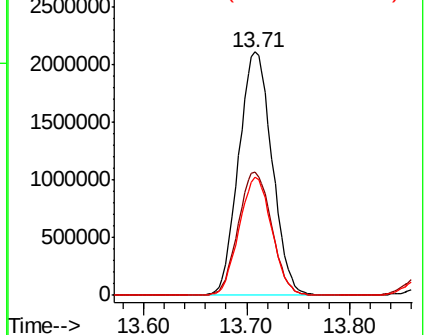
10/24/2018 12:04:50 PM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 13.783 ppbv

RT: 14.85 min Scan# 3705

Delta R.T. 0.01 min

Lab File: VL032659.D

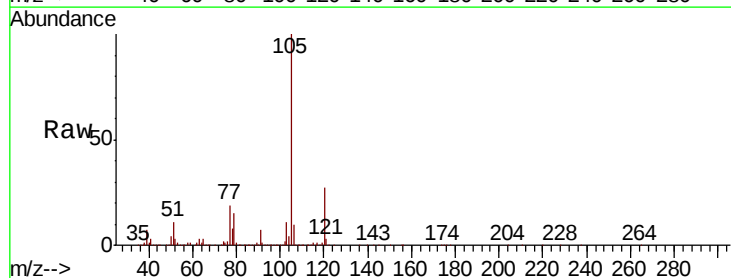
Acq: 18 Oct 2018 19:58

Tgt Ion:105 Resp: 8483779

Ion Ratio Lower Upper

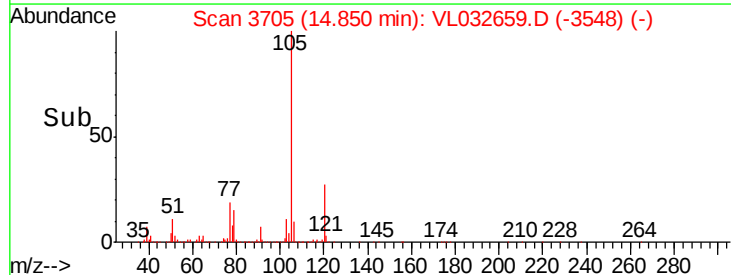
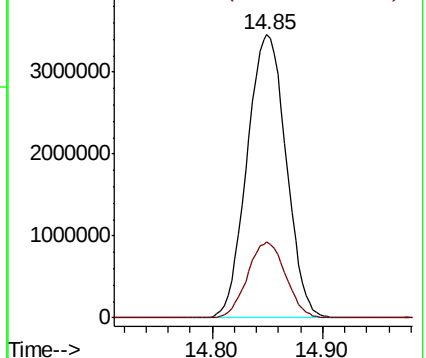
105 100

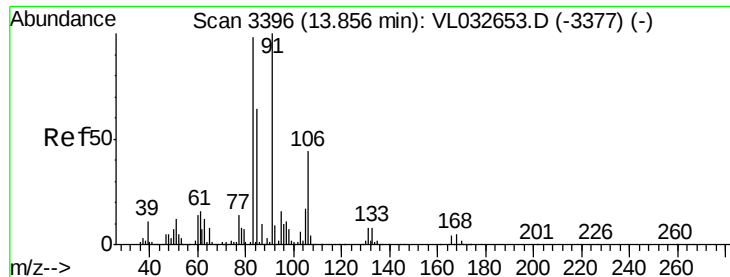
120 26.1 20.5 30.7



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: 11.048 ppbv

RT: 13.86 min Scan# 3397

Delta R.T. 0.00 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 83 Resp: 4212783

Ion Ratio Lower Upper

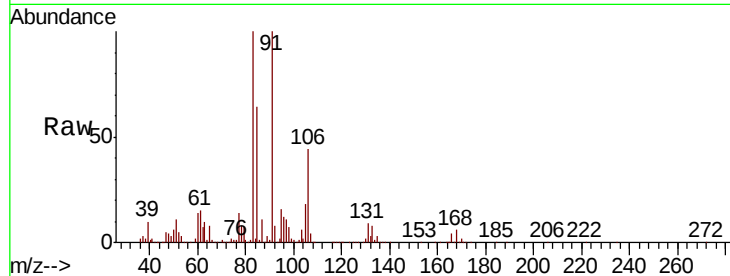
83 100

131 9.2 4.3 12.9

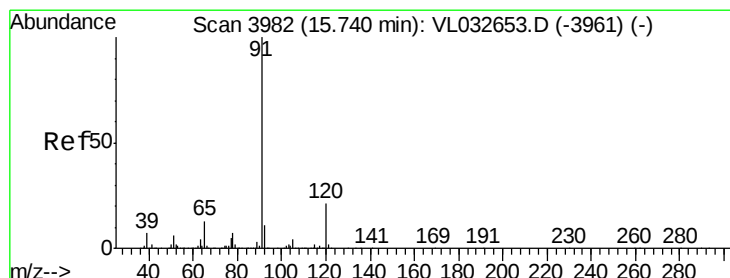
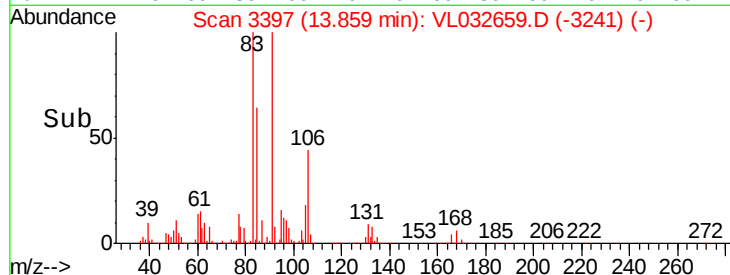
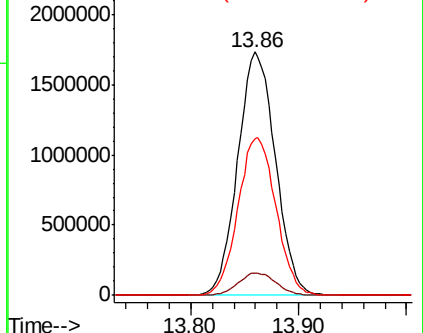
85 65.4 32.3 96.9

Manual Integrations
APPROVED

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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: 14.292 ppbv

RT: 15.75 min Scan# 3984

Delta R.T. 0.01 min

Lab File: VL032659.D

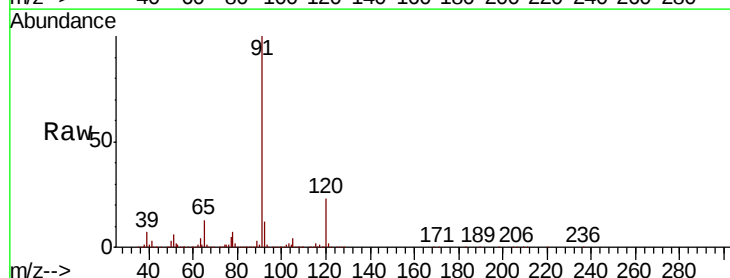
Acq: 18 Oct 2018 19:58

Tgt Ion:120 Resp: 2229257

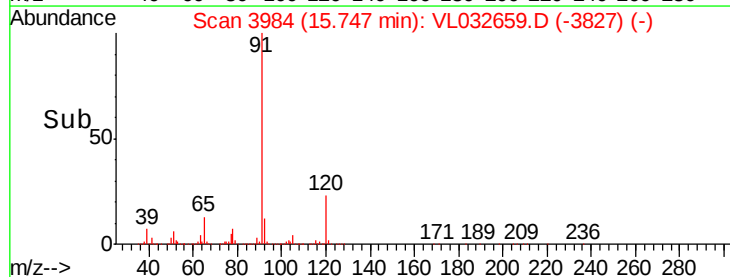
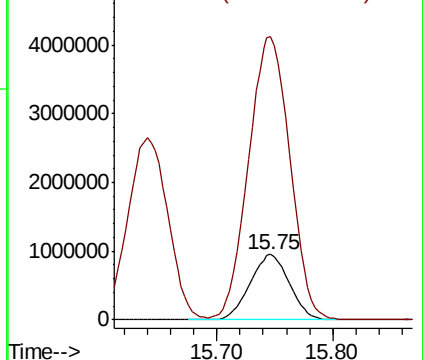
Ion Ratio Lower Upper

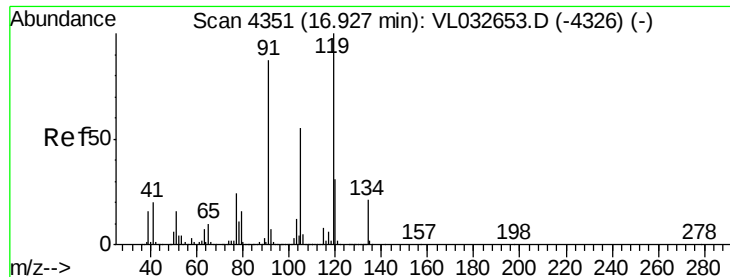
120 100

91 458.9 390.2 585.2



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





#65

tert-Butylbenzene

Concen: 13.826 ppbv

RT: 16.93 min Scan# 4353

Delta R.T. 0.01 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:119 Resp: 7221049

Ion Ratio Lower Upper

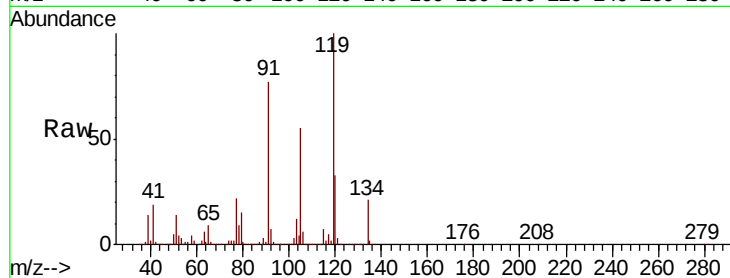
119 100

91 79.9 67.8 101.8

134 20.3 15.8 23.8

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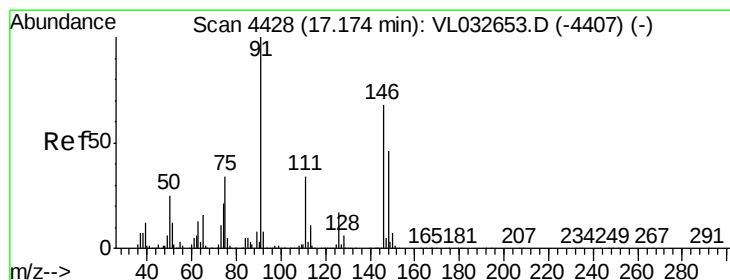
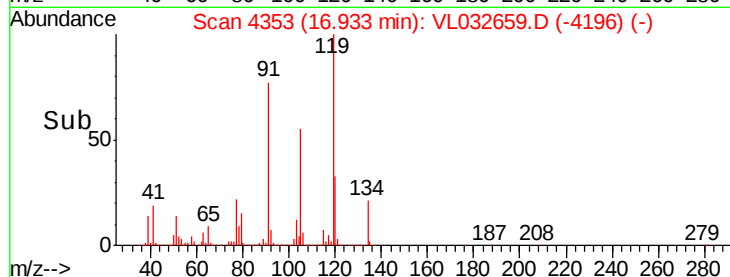
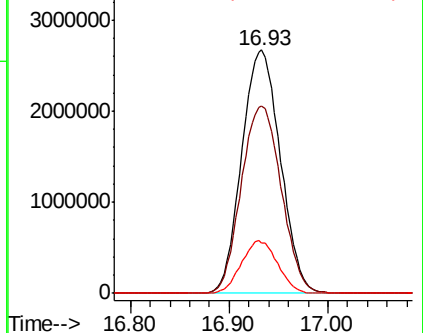
MMDadoda
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 15.022 ppbv

RT: 17.18 min Scan# 4429

Delta R.T. 0.00 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

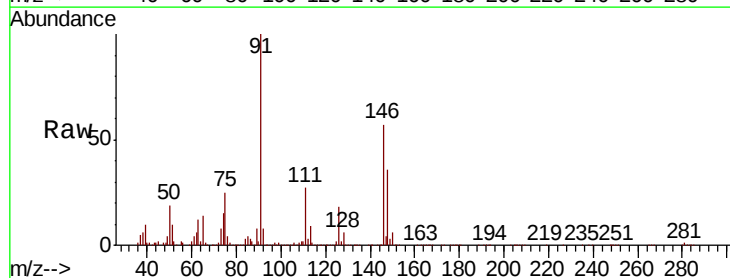
Tgt Ion: 91 Resp: 4423604

Ion Ratio Lower Upper

91 100

126 18.5 13.9 20.9

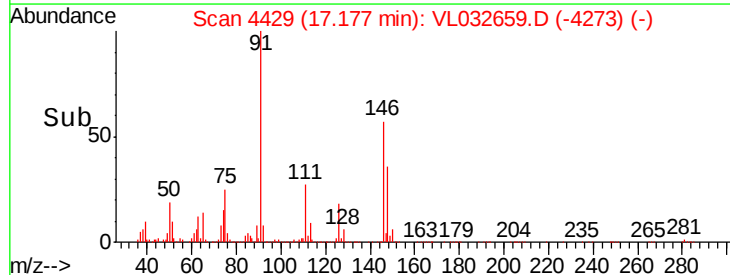
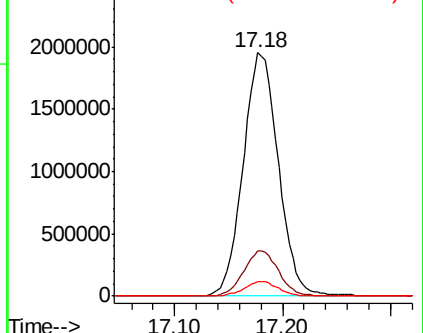
128 5.9 4.3 6.5

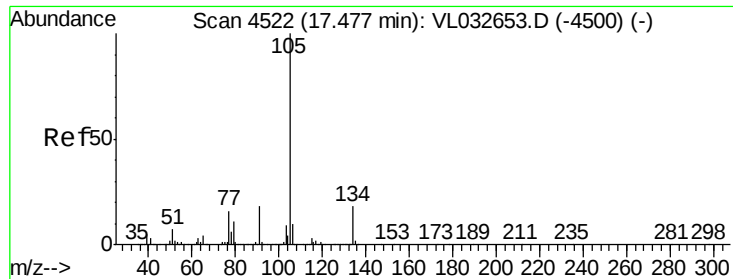


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 13.075 ppbv

RT: 17.48 min Scan# 4524

Delta R.T. 0.01 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp:10277831

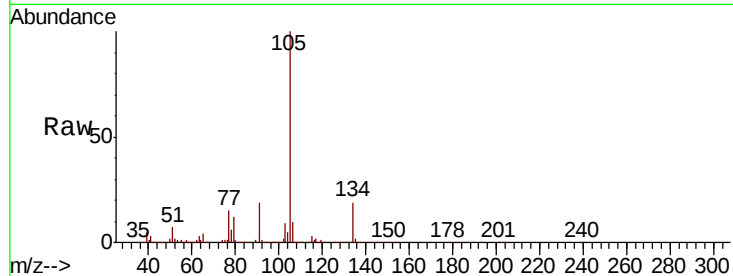
Ion Ratio Lower Upper

105 100

134 18.7 14.2 21.2

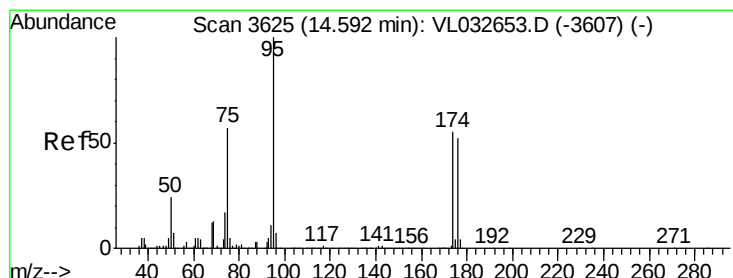
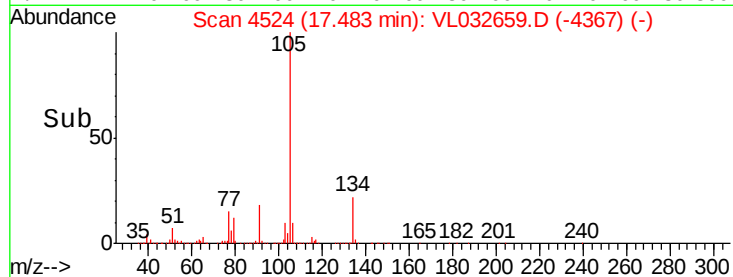
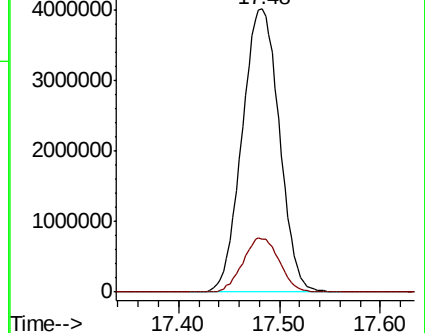
Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.865 ppbv

RT: 14.60 min Scan# 3628

Delta R.T. 0.01 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

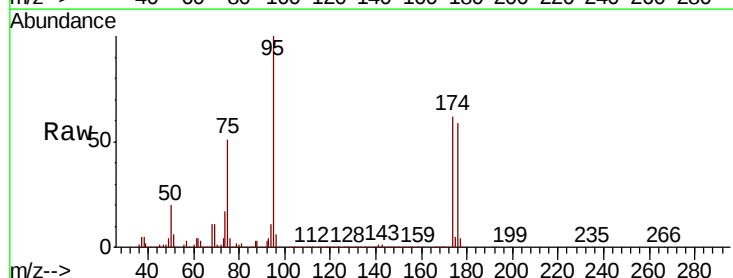
Tgt Ion: 95 Resp: 3212894

Ion Ratio Lower Upper

95 100

174 63.5 46.0 69.0

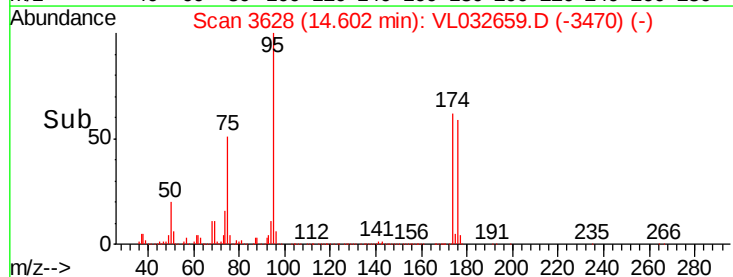
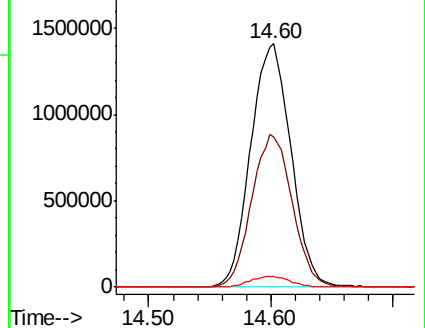
175 4.6 3.4 5.0

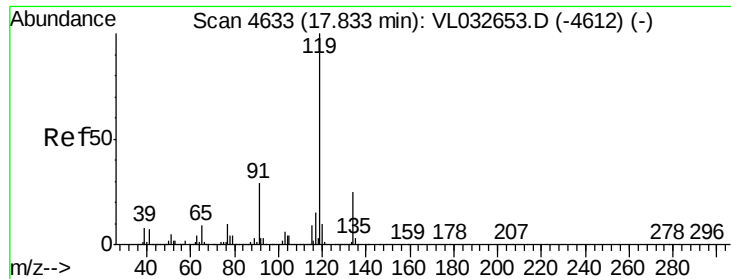


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





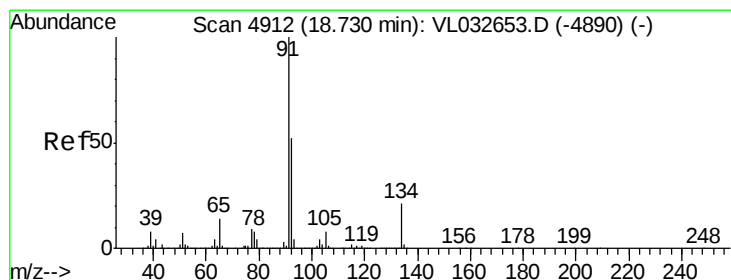
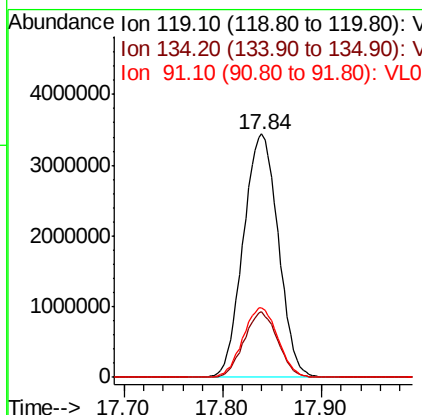
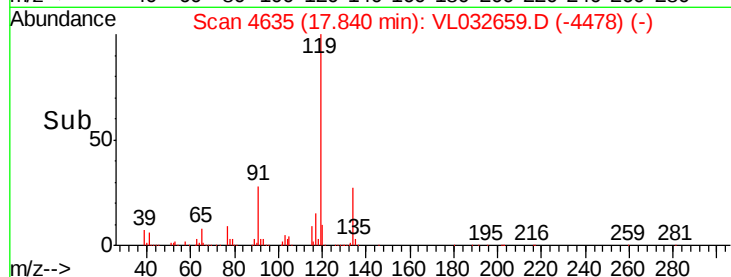
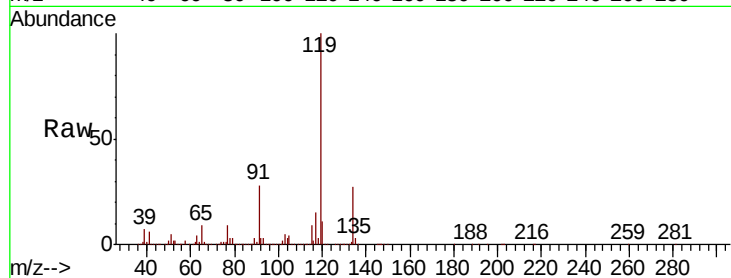
#69
p-Isopropyltoluene
Concen: 14.166 ppbv
RT: 17.84 min Scan# 4635
Delta R.T. 0.01 min
Lab File: VL032659.D
Acq: 18 Oct 2018 19:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:119 Resp: 8428309
Ion Ratio Lower Upper
119 100
134 26.0 20.2 30.2
91 28.5 24.0 36.0

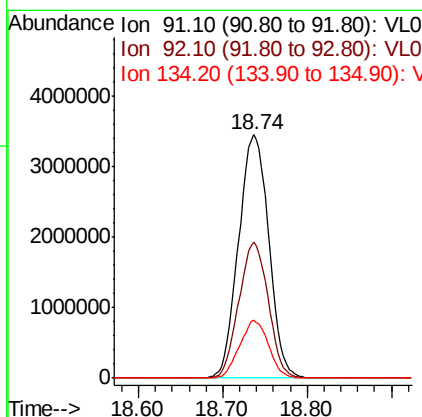
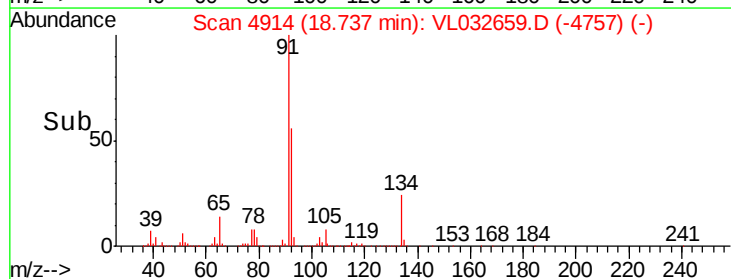
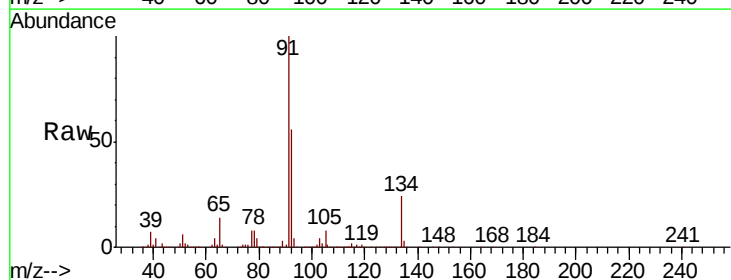
Manual Integrations
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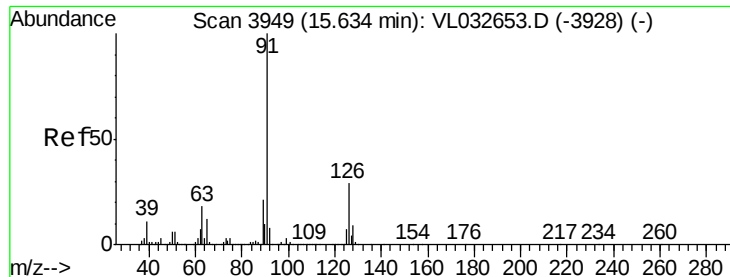
MMDadoda
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#70
n-Butylbenzene
Concen: 13.139 ppbv
RT: 18.74 min Scan# 4914
Delta R.T. 0.01 min
Lab File: VL032659.D
Acq: 18 Oct 2018 19:58

Tgt Ion: 91 Resp: 8612259
Ion Ratio Lower Upper
91 100
92 54.6 43.0 64.4
134 22.8 17.0 25.6





#71

2-Chlorotoluene

Concen: 14.044 ppbv

RT: 15.64 min Scan# 3951

Delta R.T. 0.01 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 6390241

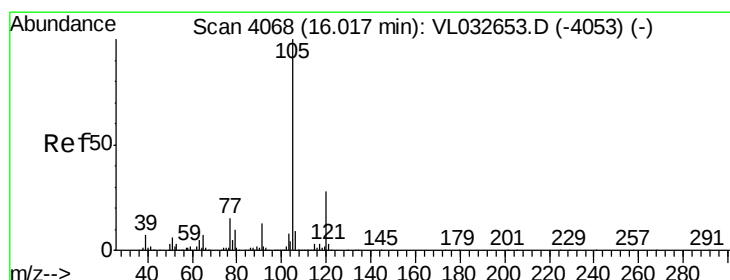
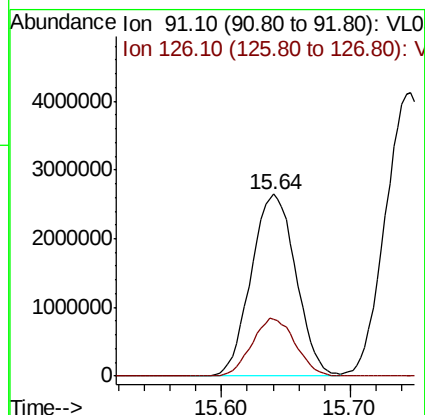
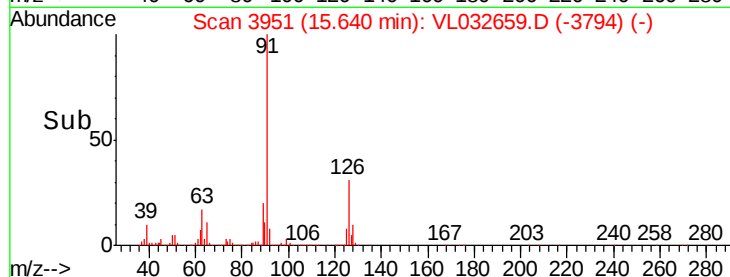
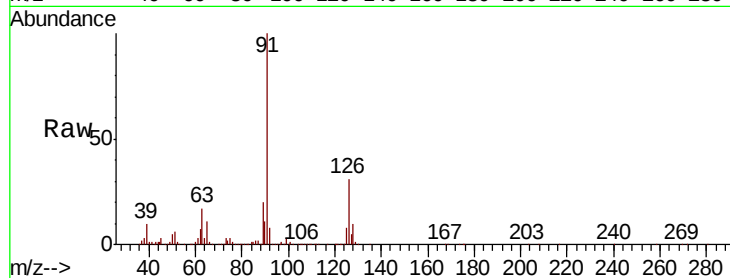
Ion Ratio Lower Upper

91 100

126 31.0 11.8 47.4

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#72

4-Ethyltoluene

Concen: 14.883 ppbv

RT: 16.03 min Scan# 4071

Delta R.T. 0.01 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

Tgt Ion: 105 Resp: 6951575

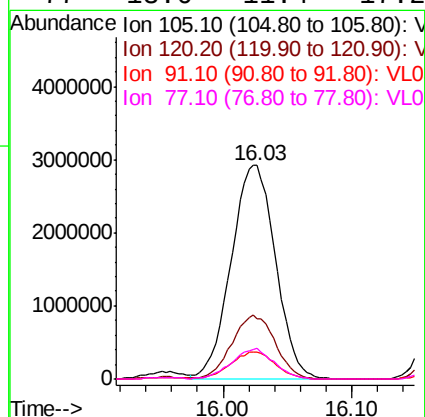
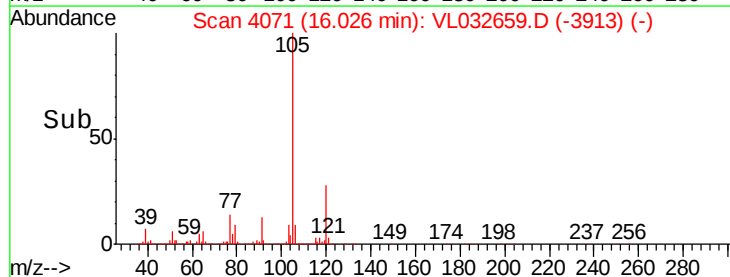
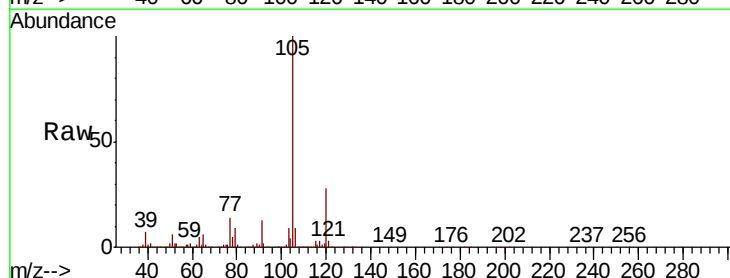
Ion Ratio Lower Upper

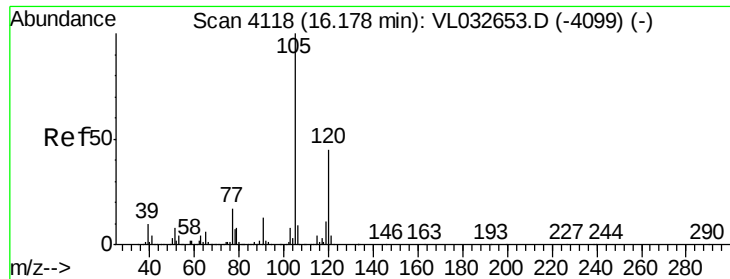
105 100

120 29.3 23.7 35.5

91 12.6 10.4 15.6

77 13.6 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 14.160 ppbv

RT: 16.18 min Scan# 4119

Delta R.T. 0.00 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 6578265

Ion Ratio Lower Upper

105 100

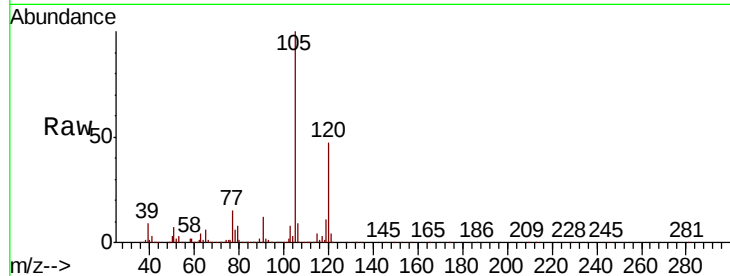
120 46.6 35.4 53.2

Manual Integrations

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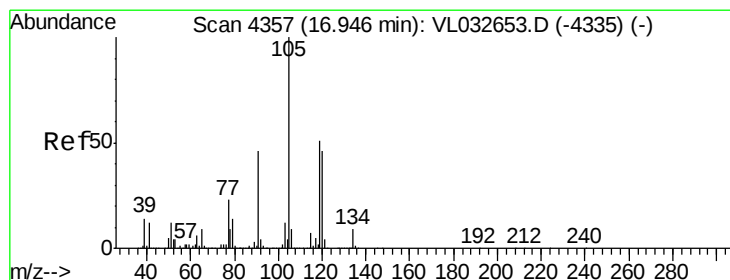
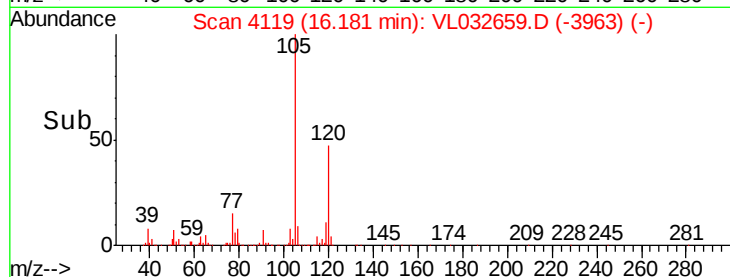
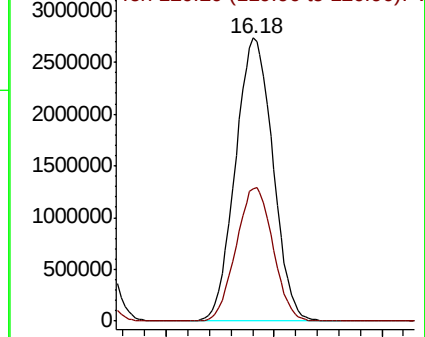
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 12.705 ppbv

RT: 16.95 min Scan# 4359

Delta R.T. 0.01 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

Tgt Ion:105 Resp: 6498031

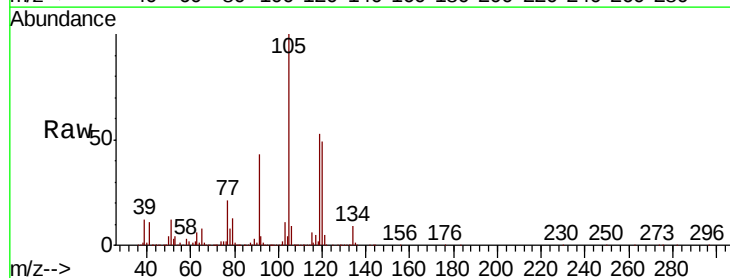
Ion Ratio Lower Upper

105 100

120 48.4 35.8 53.8

91 42.6 33.2 49.8

77 20.6 16.2 24.4

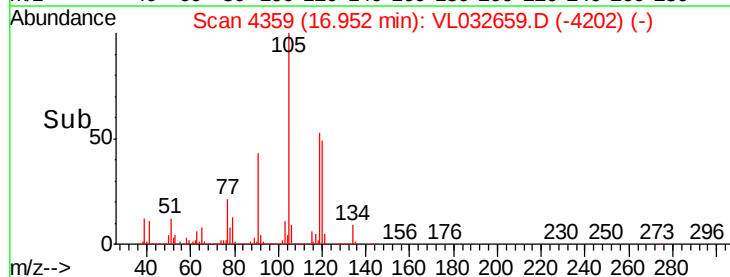
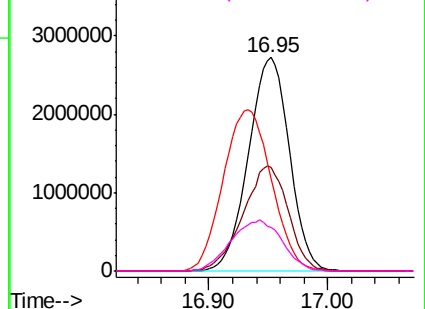


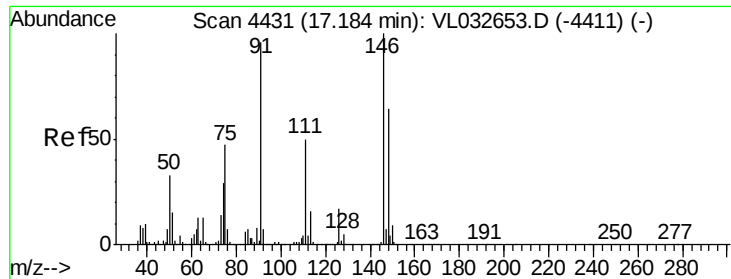
Abundance Ion 105.10 (104.80 to 105.80): V

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





#75

1,3-Dichlorobenzene

Concen: 12.364 ppbv

RT: 17.19 min Scan# 4432

Delta R.T. 0.00 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 3675403

Ion Ratio Lower Upper

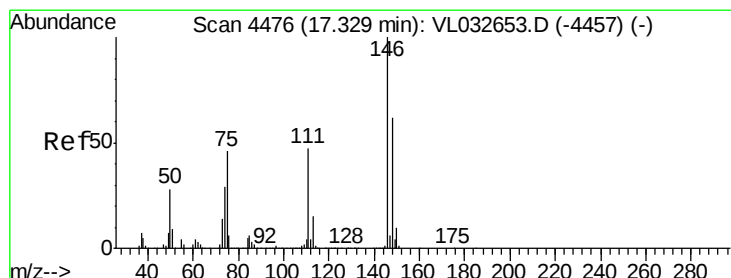
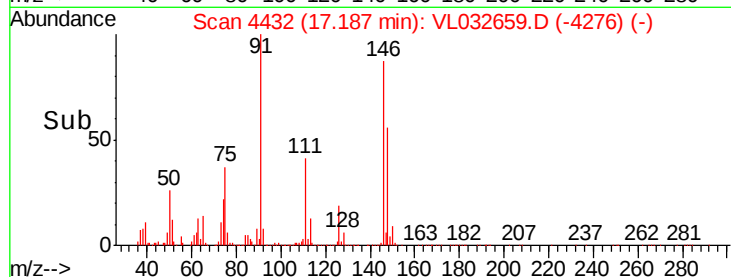
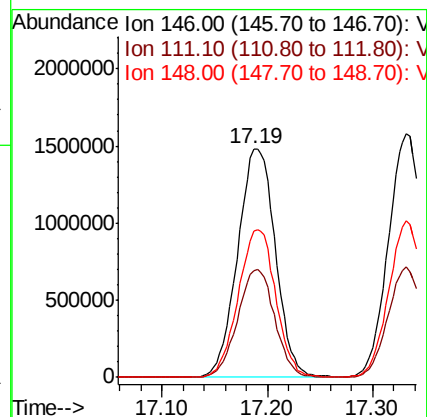
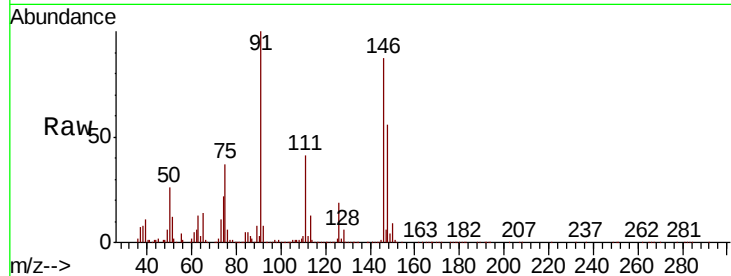
146 100

111 46.6 24.4 73.2

148 64.5 31.9 95.9

Manual Integrations
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MMDadoda
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#76

1,4-Dichlorobenzene

Concen: 13.667 ppbv

RT: 17.33 min Scan# 4477

Delta R.T. 0.00 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

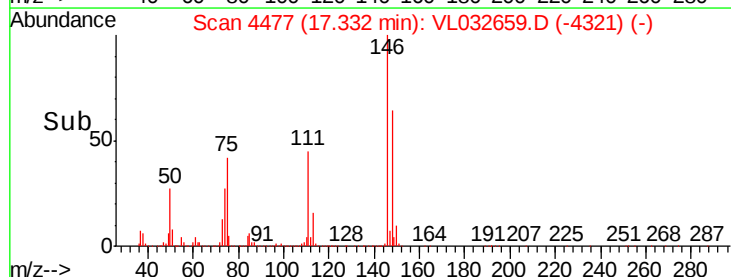
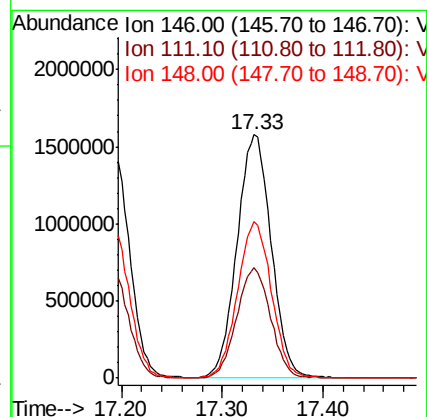
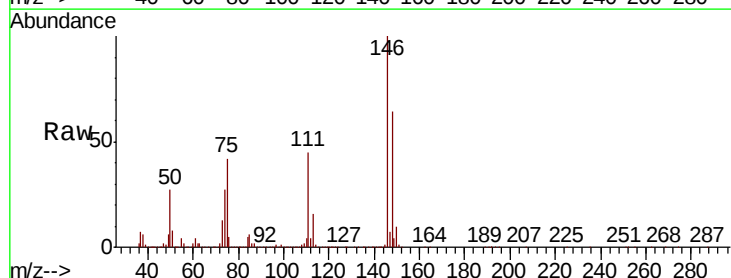
Tgt Ion:146 Resp: 3701896

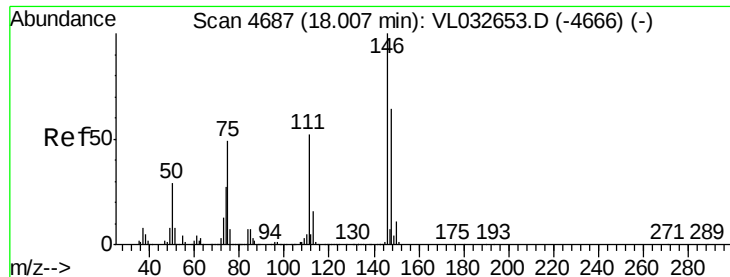
Ion Ratio Lower Upper

146 100

111 45.1 23.7 71.1

148 64.3 32.1 96.3





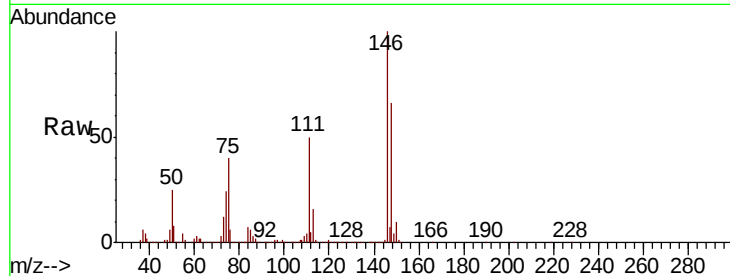
#77
 1,2-Dichlorobenzene
 Concen: 12.567 ppbv
 RT: 18.01 min Scan# 4689
 Delta R.T. 0.01 min
 Lab File: VL032659.D
 Acq: 18 Oct 2018 19:58

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC015

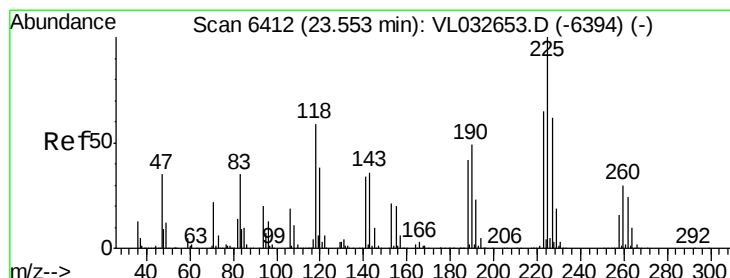
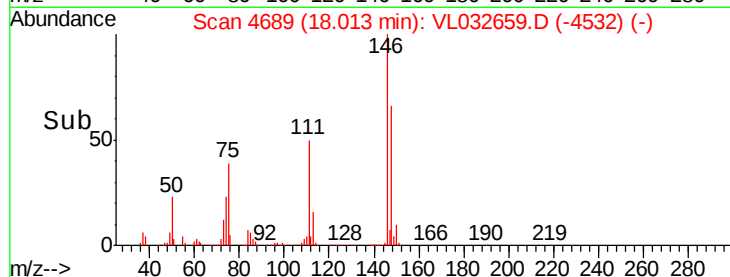
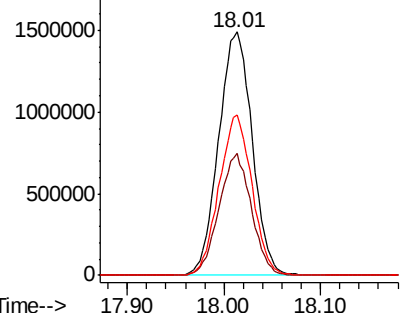
Tot Ion:146 Resp: 3591014
 Ion Ratio Lower Upper
 146 100
 111 48.3 25.3 75.8
 148 64.6 31.9 95.9

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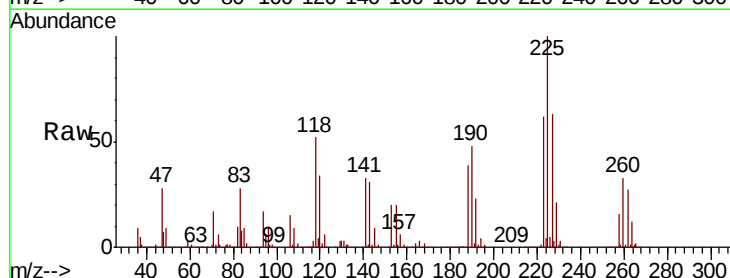


Abundance Ion 146.00 (145.70 to 146.70): V
 2000000 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

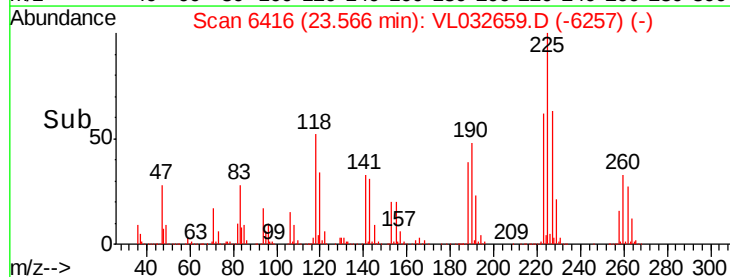
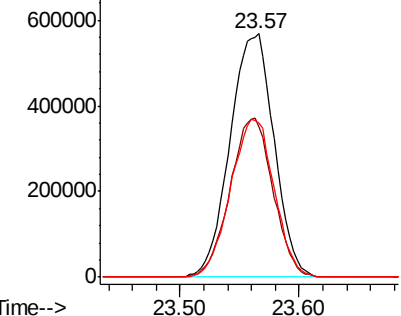


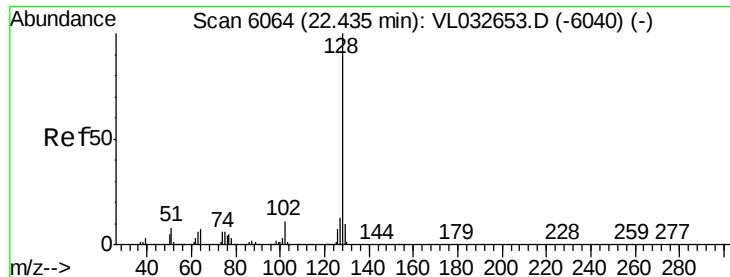
#78
 Hexachloro-1,3-Butadiene
 Concen: 9.101 ppbv
 RT: 23.57 min Scan# 6416
 Delta R.T. 0.01 min
 Lab File: VL032659.D
 Acq: 18 Oct 2018 19:58

Tgt Ion:225 Resp: 1455483
 Ion Ratio Lower Upper
 225 100
 223 63.8 50.7 76.1
 227 64.2 50.7 76.1



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: 15.260 ppbv

RT: 22.43 min Scan# 6064

Delta R.T. -0.00 min

Lab File: VL032659.D

Acq: 18 Oct 2018 19:58

Instrument :

MSVOA_L

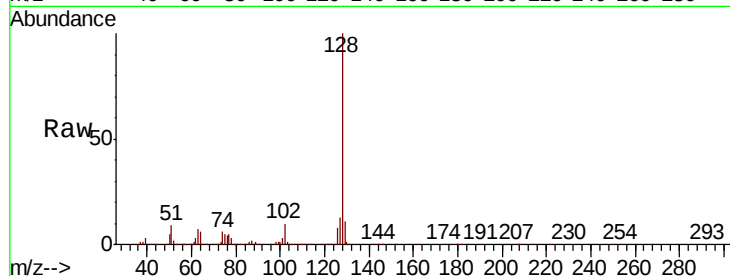
ClientSampleId :

VSTDIC015

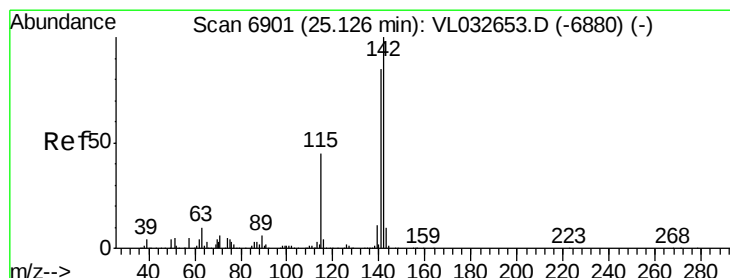
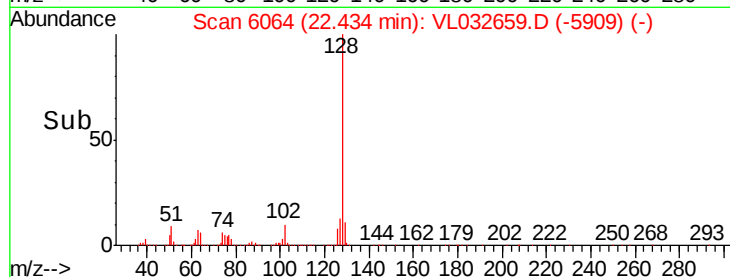
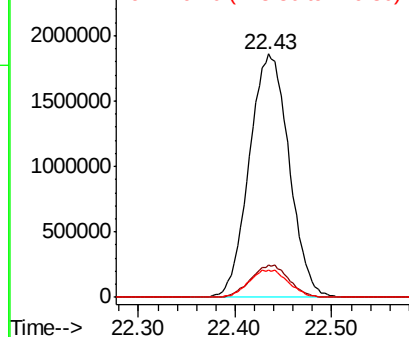
Tot Ion:128	Resp: 5307533
Ion Ratio	Lower Upper
128 100	
127 13.1	10.3 15.5
129 11.2	8.6 13.0

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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: 29.186 ppbv

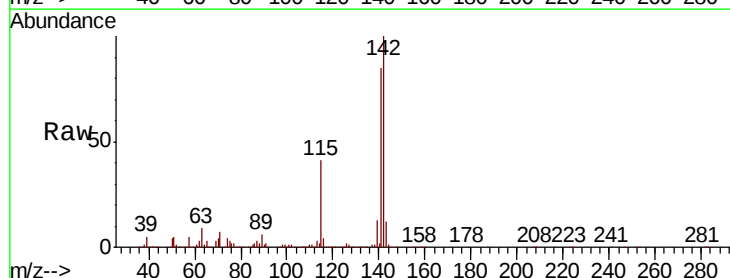
RT: 25.13 min Scan# 6901

Delta R.T. -0.00 min

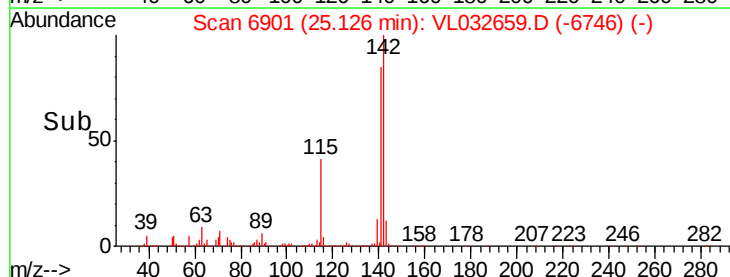
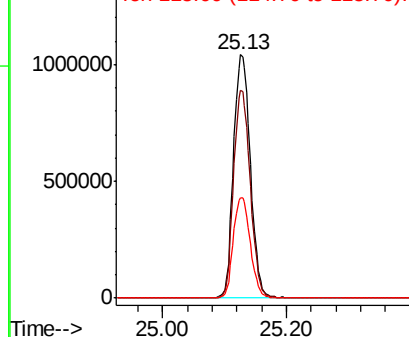
Lab File: VL032659.D

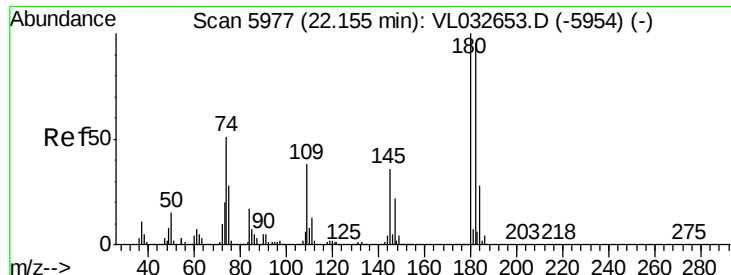
Acq: 18 Oct 2018 19:58

Tgt Ion:142	Ratio	Resp: Lower	1971264 Upper
142	100		
141	84.6	67.5	101.3
115	41.7	33.5	50.3



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





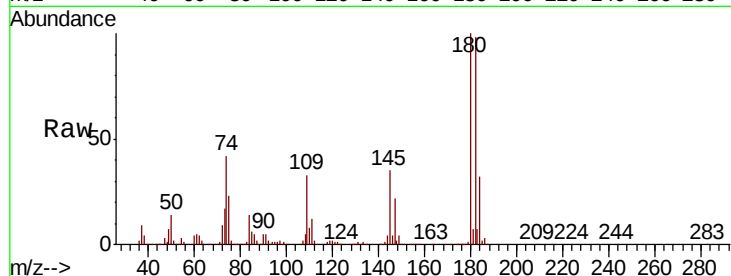
#81
 1,2,4-Trichlorobenzene
 Concen: 14.958 ppbv
 RT: 22.16 min Scan# 5979
 Delta R.T. 0.01 min
 Lab File: VL032659.D
 Acq: 18 Oct 2018 19:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.4	76.5	114.7
184	30.4	24.7	37.1

Manual Integrations
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Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

