

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101818\
 Data File : VL032653.D
 Acq On : 18 Oct 2018 16:06
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

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 10/24/2018 12:04:14 PM

Quant Time: Oct 18 16:34:42 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 16:34:42 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	1777562	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	4155877	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	4271021m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.60	95	3200590	9.95	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1200447	6.847	ppbv	98
3) Chlorodifluoromethane	3.02	51	1193178	8.022	ppbv	100
4) Chloromethane	3.18	50	671871	8.275	ppbv	97
5) Vinyl Chloride	3.30	62	687752	8.408	ppbv	99
6) Bromomethane	3.53	94	435877	8.436	ppbv	91
7) Chloroethane	3.61	64	257840	8.053	ppbv	98
8) Dichlorotetrafluoroethane	3.23	85	1624670	8.108	ppbv	92
9) Propene	3.05	41	518678	9.513	ppbv	99
10) Heptane	8.26	43	2070961	10.143	ppbv	99
11) Trichlorofluoromethane	4.01	101	1804934	7.904	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.57	101	1800626	10.770	ppbv	94
13) Ethanol	3.66	45	139969	8.296	ppbv	97
14) Bromoethene	3.80	108	570581	9.328	ppbv	99
15) Acetone	3.91	43	1201815	7.597	ppbv	100
16) 1,3-Butadiene	3.37	39	539689	9.214	ppbv	87
17) tert-Butyl alcohol	4.37	59	585864	40.581	ppbv #	100
18) 1,1-Dichloroethene	4.36	96	840656	11.150	ppbv	96
19) Isopropyl Alcohol	4.03	45	1006447	9.009	ppbv #	97
20) Methylene Chloride	4.42	84	727649	10.268	ppbv	97
21) Allyl Chloride	4.49	41	1354376	11.409	ppbv	99
22) trans-1,2-Dichloroethene	4.98	96	833456	9.569	ppbv	85
23) Vinyl Acetate	5.17	43	2753279	10.941	ppbv	99
24) 1,1-Dichloroethane	5.10	63	2031872	8.709	ppbv	98
25) Ethyl Acetate	5.78	43	3474600	9.283	ppbv	99
26) Hexane	5.80	57	1645054	9.757	ppbv	98
27) Carbon Disulfide	4.63	76	2176600	10.684	ppbv	99
28) Methyl tert-Butyl Ether	5.13	73	2493925	11.771	ppbv	100
29) Chloroform	5.87	83	2580057	8.731	ppbv	98
30) Cyclohexane	7.26	84	1387313	10.434	ppbv	98
31) cis-1,2-Dichloroethene	5.66	61	1652738	10.204	ppbv	99
32) 1,1,1-Trichloroethane	6.63	97	2552781	8.660	ppbv	99
34) 2-Butanone	5.34	43	2101645	9.111	ppbv	100
35) Carbon Tetrachloride	7.15	117	2753529	8.549	ppbv	99
36) Benzene	7.02	78	3294160	9.779	ppbv	100
37) 1,2-Dichloroethane	6.43	62	2012377	8.711	ppbv	98
38) Trichloroethene	7.98	130	1250229	9.871	ppbv	99
39) 1,2-Dichloropropane	7.75	63	1251213	9.131	ppbv	96
40) 1,4-Dioxane	7.97	88	447899	9.461	ppbv #	98
41) Tetrahydrofuran	6.16	42	1303098	10.648	ppbv	99
42) Bromodichloromethane	7.93	83	2800783	8.893	ppbv	99
43) Methyl Methacrylate	8.15	69	1327390	10.163	ppbv	98

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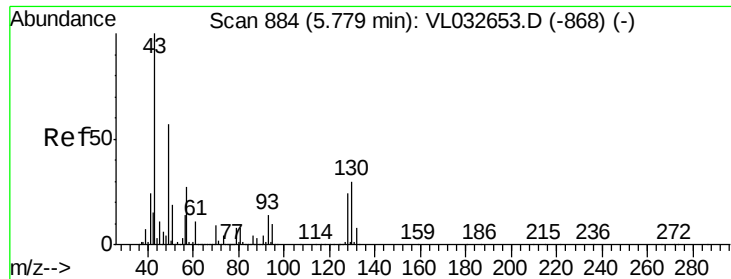
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	5542567	9.281	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	1976366	11.572	ppbv	99
46) cis-1,3-Dichloropropene	8.85	75	2096166	10.781	ppbv	99
47) 1,1,2-Trichloroethane	9.63	97	1487026	9.081	ppbv	99
48) Dibromochloromethane	10.47	129	2637377	9.482	ppbv	100
49) Bromoform	13.22	173	2050481	9.757	ppbv	99
50) 4-Methyl-2-Pentanone	8.89	43	3271289	9.636	ppbv	99
51) 2-Hexanone	10.29	43	2714383	10.168	ppbv #	99
52) Tetrachloroethene	11.39	164	1144136	10.317	ppbv	97
53) Toluene	9.97	91	4118539	10.724	ppbv	100
54) 1,2-Dibromoethane	10.78	107	2282378	9.734	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.30	131	1706807	8.703	ppbv	98
57) Chlorobenzene	12.32	112	2882592	8.875	ppbv	96
58) Ethyl Benzene	12.88	91	5171992	10.783	ppbv	99
59) m/p-Xylene	13.14	91	8643353m	20.187	ppbv	
60) o-Xylene	13.87	91	4132020	9.685	ppbv	100
61) Styrene	13.70	104	3157828	12.212	ppbv	98
62) Isopropylbenzene	14.84	105	5772473	9.497	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.86	83	2899756	7.701	ppbv	100
64) n-propylbenzene	15.74	120	1486493	9.651	ppbv	94
65) tert-Butylbenzene	16.93	119	4975883	9.648	ppbv	97
66) Benzyl Chloride	17.17	91	2981899	10.255	ppbv	99
67) sec-Butylbenzene	17.48	105	7024692	9.050	ppbv	98
69) p-Isopropyltoluene	17.83	119	5682723	9.673	ppbv	98
70) n-Butylbenzene	18.73	91	5924920	9.154	ppbv	99
71) 2-Chlorotoluene	15.63	91	4331184	9.639	ppbv	98
72) 4-Ethyltoluene	16.02	105	4663866	10.112	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	4411481	9.616	ppbv	97
74) 1,2,4-Trimethylbenzene	16.95	105	4482356	8.875	ppbv	94
75) 1,3-Dichlorobenzene	17.18	146	2523701	8.598	ppbv	99
76) 1,4-Dichlorobenzene	17.33	146	2471945	9.242	ppbv	98
77) 1,2-Dichlorobenzene	18.01	146	2407255	8.531	ppbv	98
78) Hexachloro-1,3-Butadiene	23.56	225	955871	6.053	ppbv	100
79) Naphthalene	22.43	128	3430207	9.987	ppbv	99
80) Naphthalene, 2-methyl-	25.13	142	1279840	19.189	ppbv	100
81) 1,2,4-Trichlorobenzene	22.16	180	1734193	10.171	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.00 min

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VSTDICCC010

Tot Ion: 49 Resp: 1777562

Ion Ratio Lower Upper

49 100

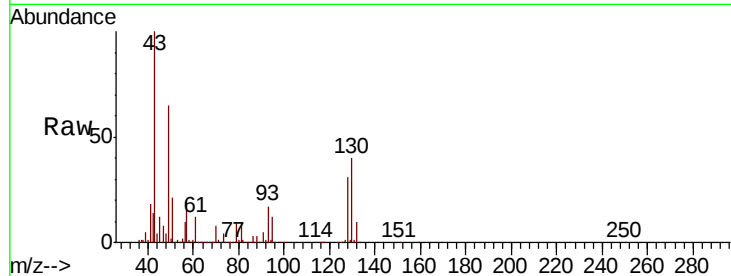
128 47.8 22.3 66.8

130 61.2 28.4 85.3

Manual Integrations
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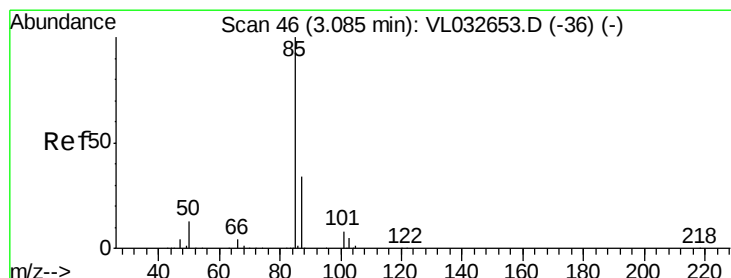
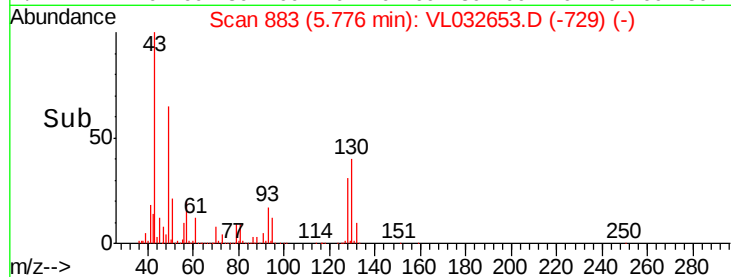
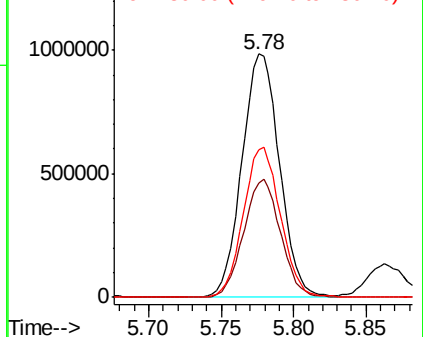
10/24/2018 12:04:14 PM



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: 6.847 ppbv

RT: 3.08 min Scan# 46

Delta R.T. -0.00 min

Lab File: VL032653.D

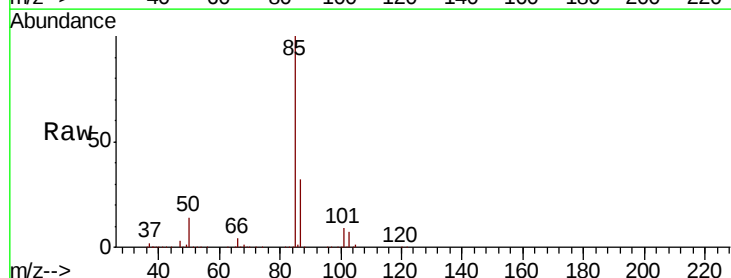
Acq: 18 Oct 2018 16:06

Tgt Ion: 85 Resp: 1200447

Ion Ratio Lower Upper

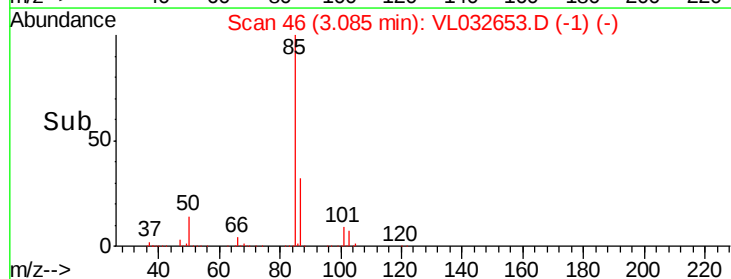
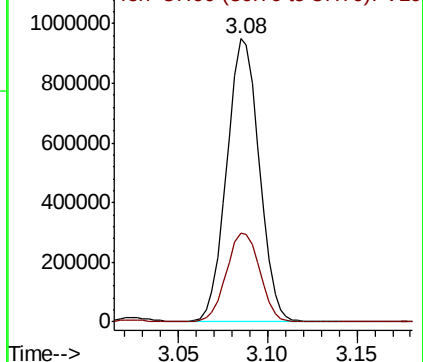
85 100

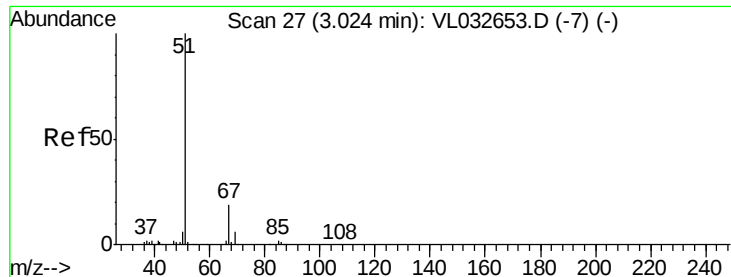
87 31.6 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





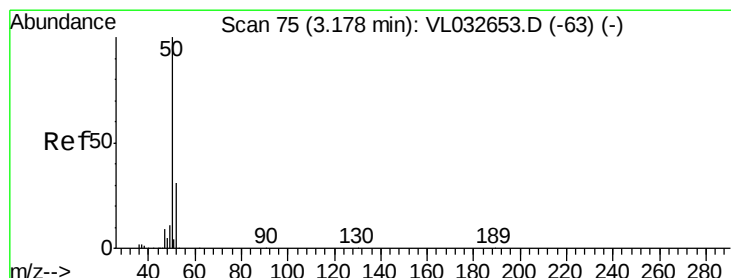
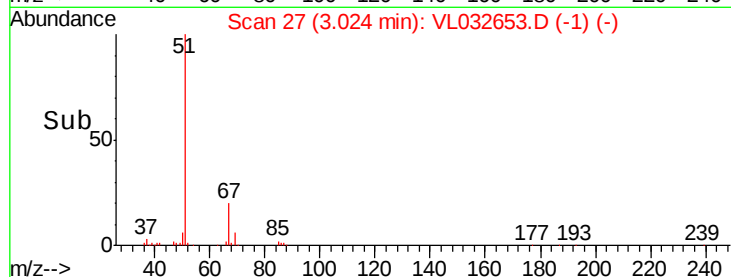
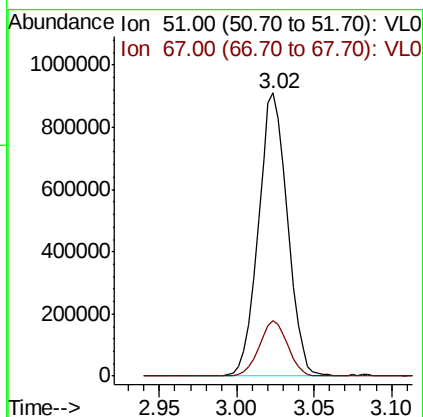
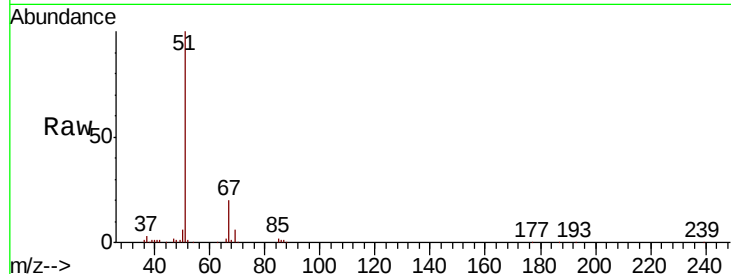
#3
Chlorodifluoromethane
Concen: 8.022 ppbv
RT: 3.02 min Scan# 27
Delta R.T. -0.00 min
Lab File: VL032653.D
Acq: 18 Oct 2018 16:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 51 Resp: 1193178
Ion Ratio Lower Upper
51 100
67 19.1 15.2 22.8

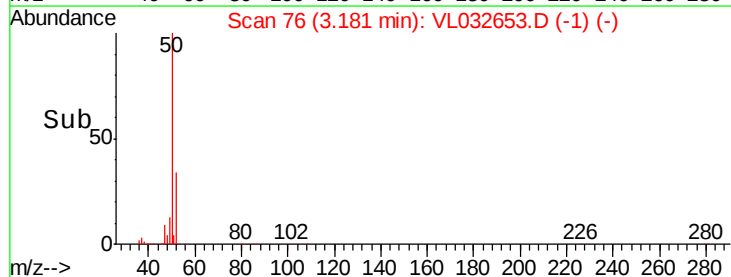
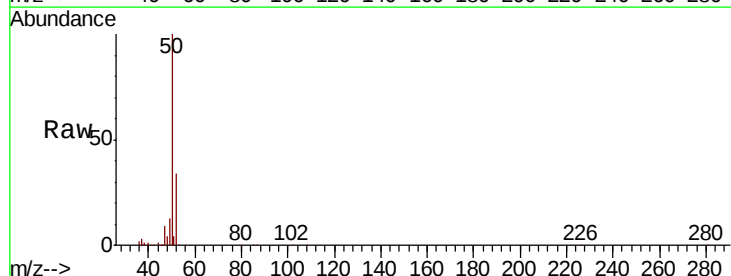
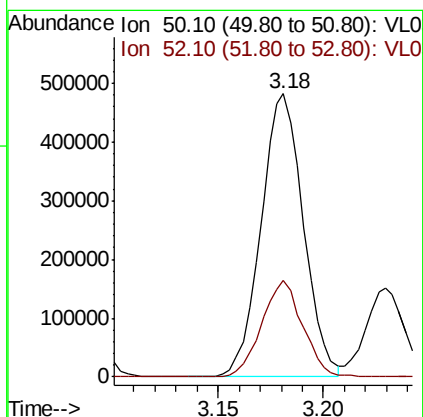
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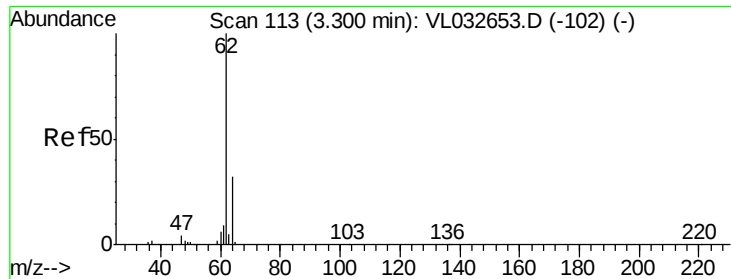
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#4
Chloromethane
Concen: 8.275 ppbv
RT: 3.18 min Scan# 76
Delta R.T. 0.00 min
Lab File: VL032653.D
Acq: 18 Oct 2018 16:06

Tgt Ion: 50 Resp: 671871
Ion Ratio Lower Upper
50 100
52 34.2 25.9 38.9





#5

Vinyl Chloride

Concen: 8.408 ppbv

RT: 3.30 min Scan# 113

Delta R.T. -0.00 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 62 Resp: 687752

Ion Ratio Lower Upper

62 100

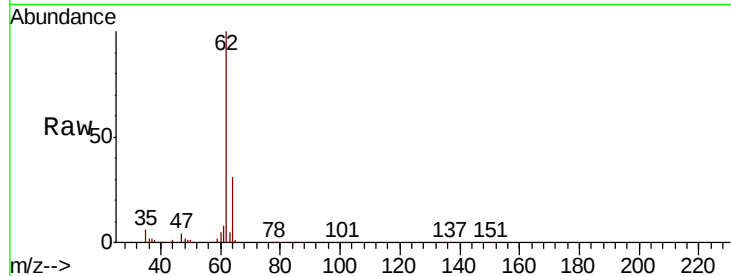
64 31.4 25.5 38.3

Manual Integrations

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10/24/2018 12:04:14 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.30

500000

400000

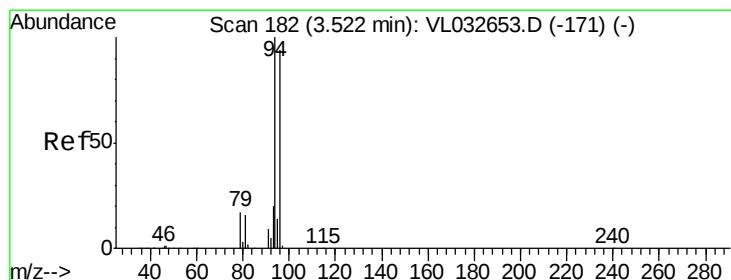
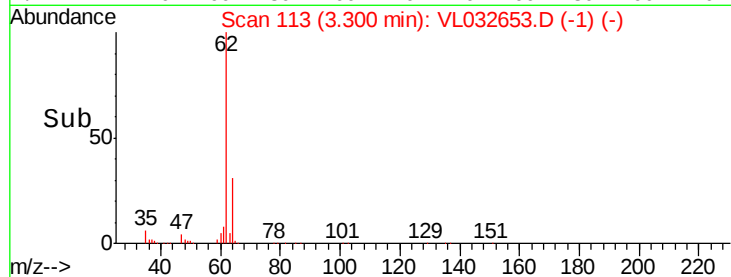
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 8.436 ppbv

RT: 3.53 min Scan# 183

Delta R.T. 0.00 min

Lab File: VL032653.D

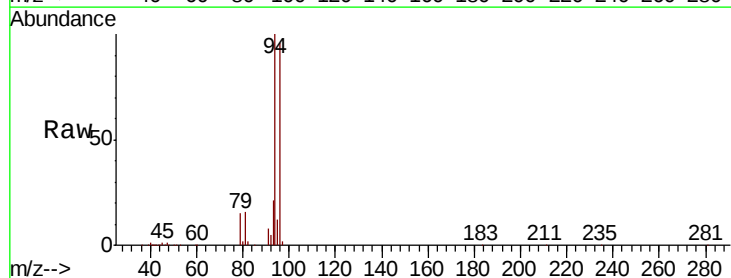
Acq: 18 Oct 2018 16:06

Tgt Ion: 94 Resp: 435877

Ion Ratio Lower Upper

94 100

96 95.6 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

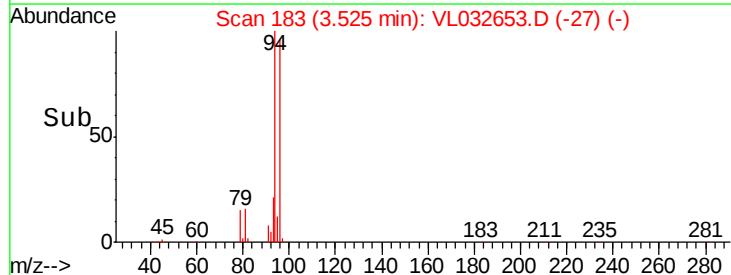
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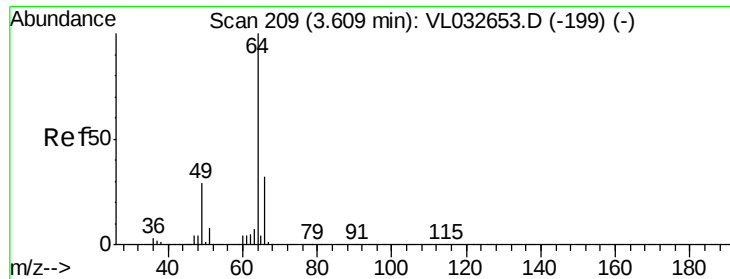
200000

100000

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Time-->





#7

Chloroethane

Concen: 8.053 ppbv

RT: 3.61 min Scan# 210

Delta R.T. 0.00 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 64 Resp: 257840

Ion Ratio Lower Upper

64 100

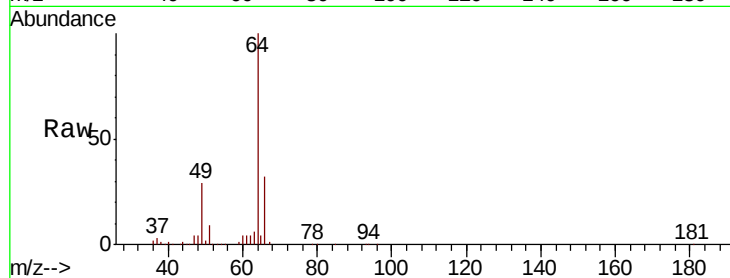
66 31.7 24.4 36.6

Manual Integrations

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10/24/2018 12:04:14 PM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.61

200000

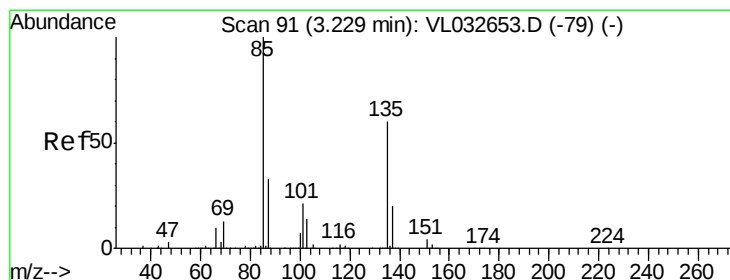
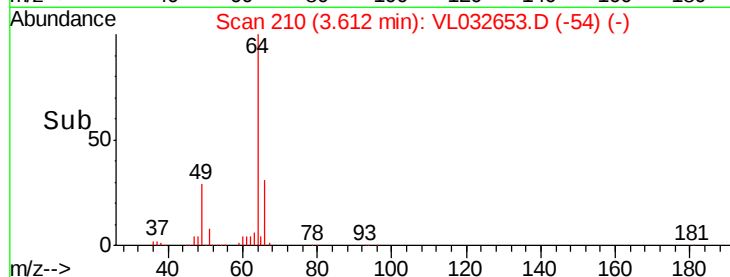
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.108 ppbv

RT: 3.23 min Scan# 91

Delta R.T. -0.00 min

Lab File: VL032653.D

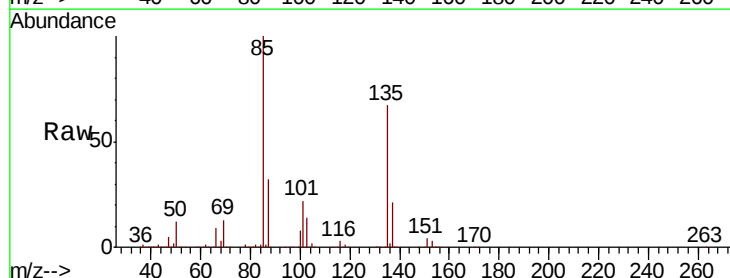
Acq: 18 Oct 2018 16:06

Tgt Ion: 85 Resp: 1624670

Ion Ratio Lower Upper

85 100

135 67.2 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

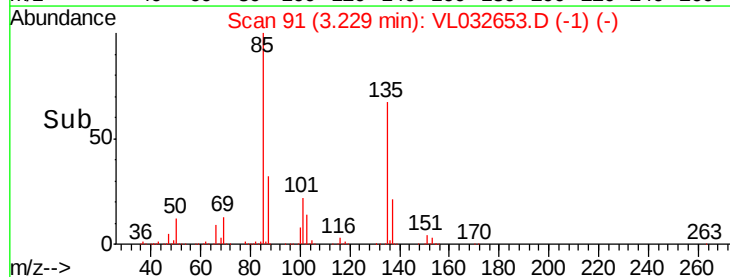
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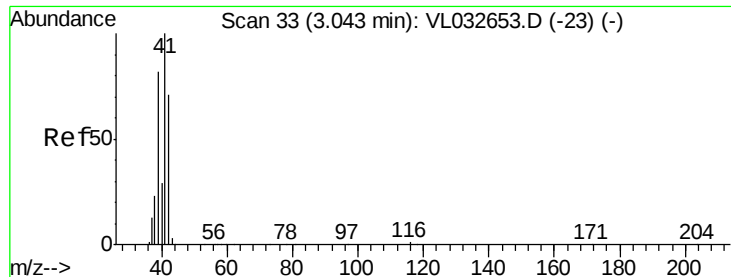
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Time-->





#9

Propene

Concen: 9.513 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.00 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 41 Resp: 518678

Ion Ratio Lower Upper

41 100

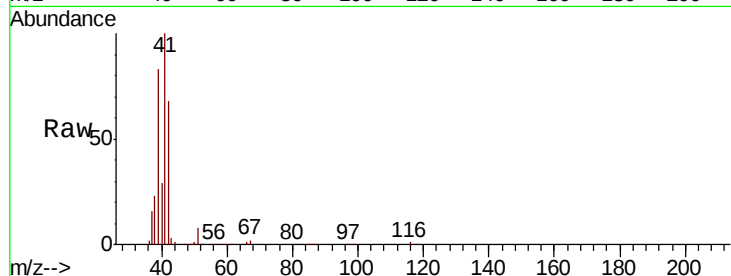
42 68.6 55.4 83.0

Manual Integrations

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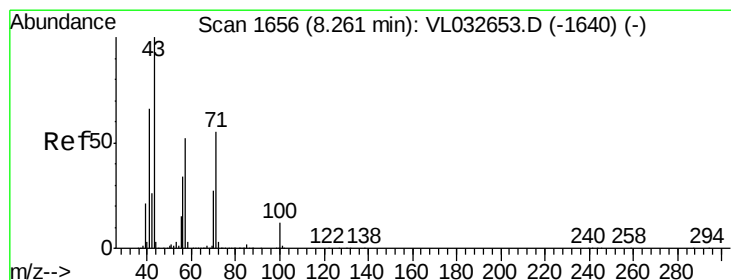
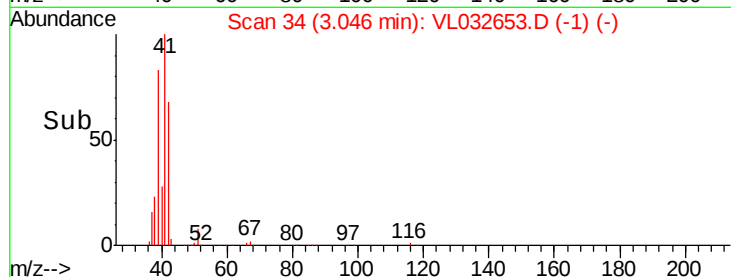
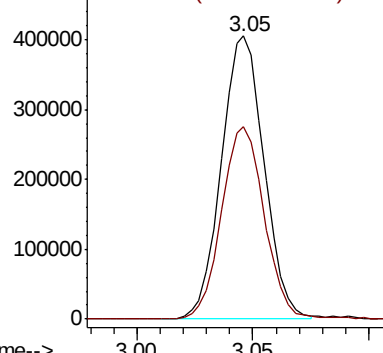
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10/24/2018 12:04:14 PM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 10.143 ppbv

RT: 8.26 min Scan# 1657

Delta R.T. 0.00 min

Lab File: VL032653.D

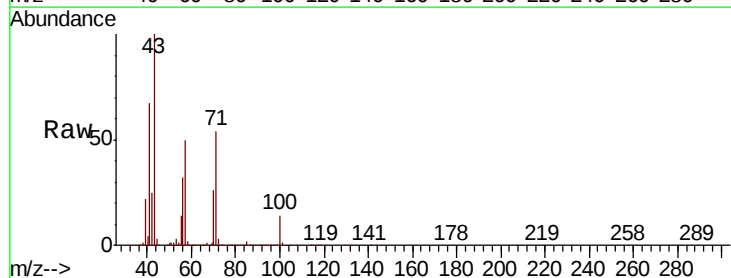
Acq: 18 Oct 2018 16:06

Tgt Ion: 43 Resp: 2070961

Ion Ratio Lower Upper

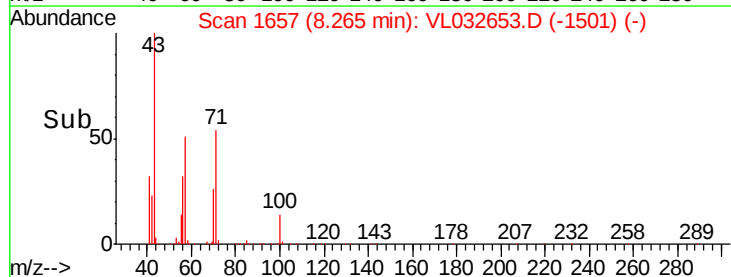
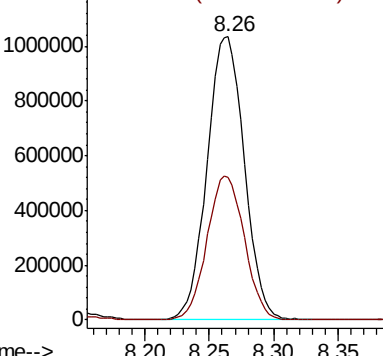
43 100

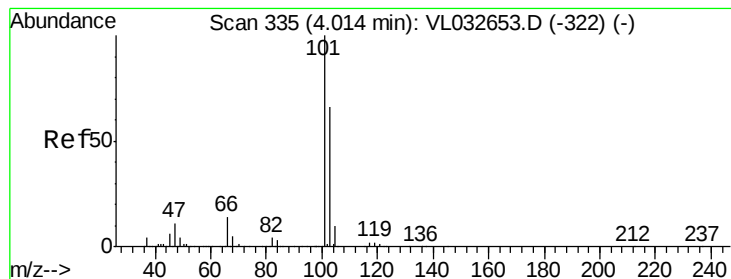
57 51.1 41.5 62.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 7.904 ppbv

RT: 4.01 min Scan# 335

Delta R.T. -0.00 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

Instrument :

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Tot Ion:101 Resp: 1804934

Ion Ratio Lower Upper

101 100

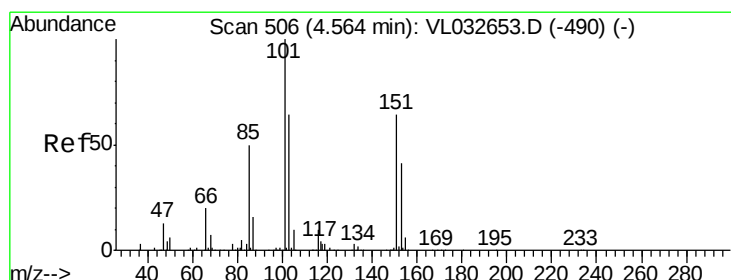
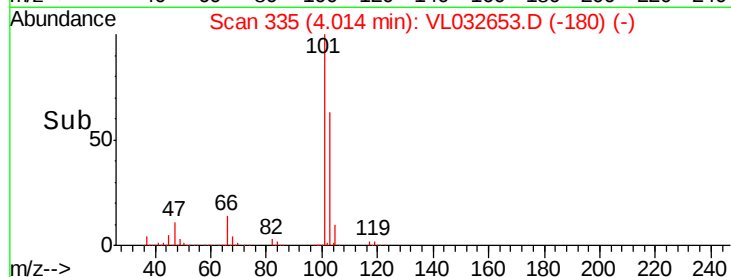
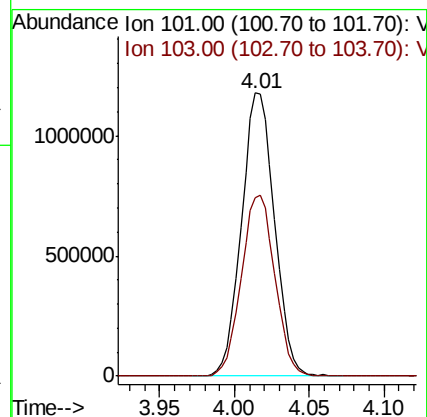
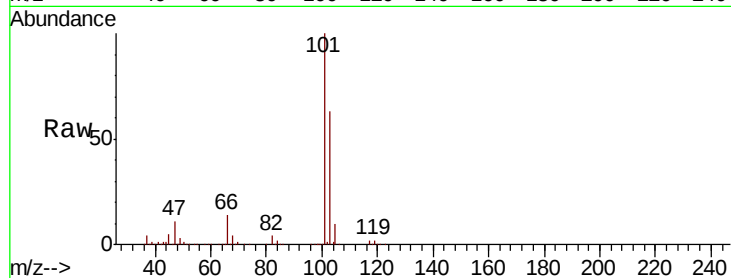
103 63.0 51.4 77.2

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 10.770 ppbv

RT: 4.57 min Scan# 507

Delta R.T. 0.00 min

Lab File: VL032653.D

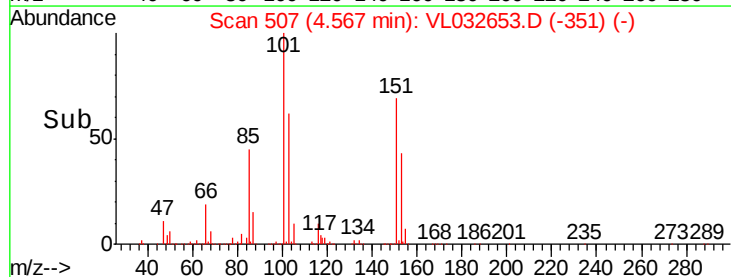
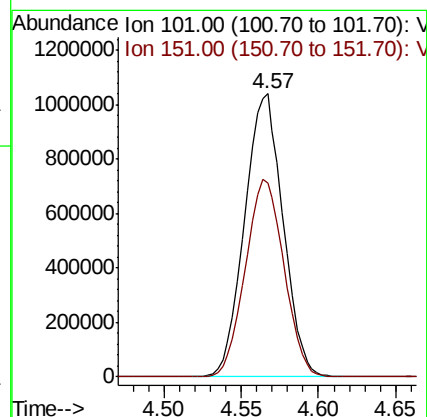
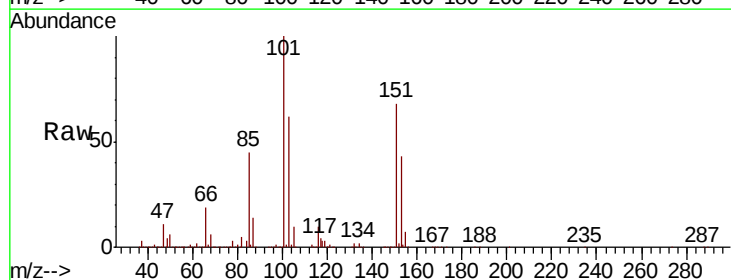
Acq: 18 Oct 2018 16:06

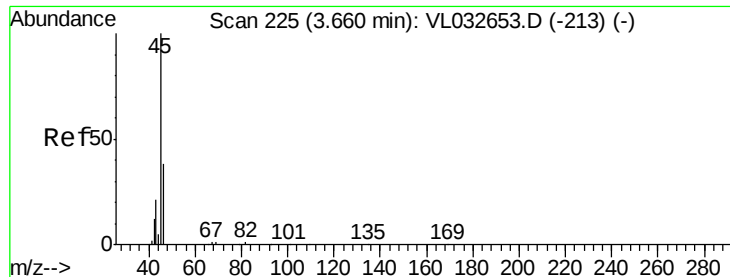
Tgt Ion:101 Resp: 1800626

Ion Ratio Lower Upper

101 100

151 70.3 52.3 78.5





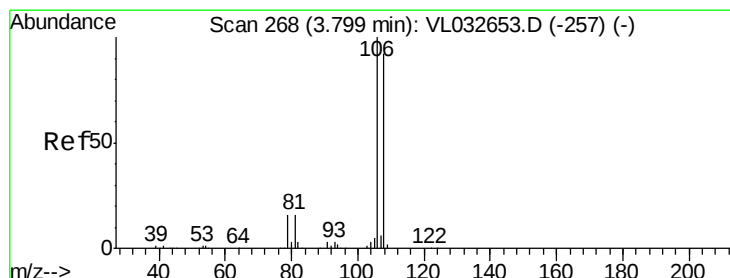
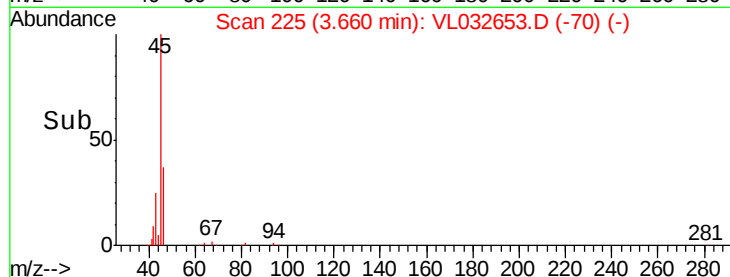
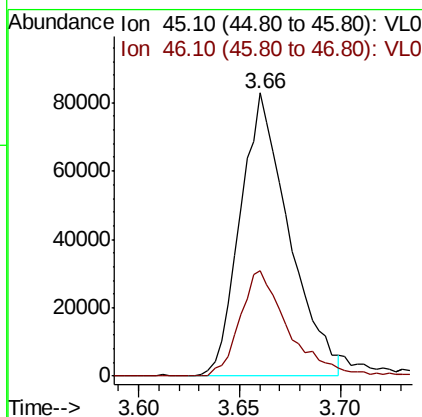
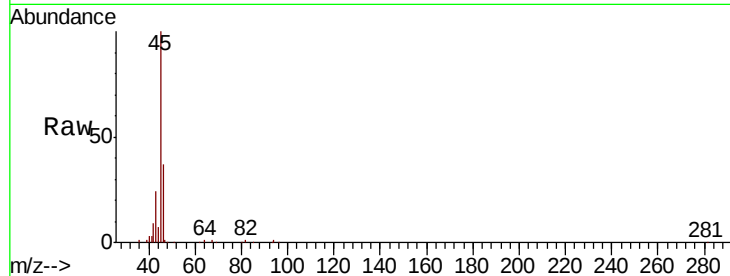
#13
Ethanol
Concen: 8.296 ppbv
RT: 3.66 min Scan# 225
Delta R.T. -0.00 min
Lab File: VL032653.D
Acq: 18 Oct 2018 16:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	45	Resp	139969
Ion Ratio	100	Lower	Upper
46	37.0	15.4	61.8

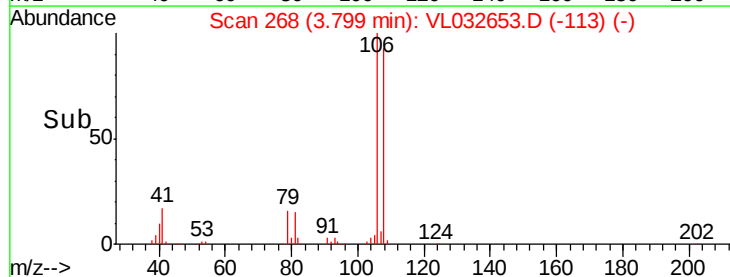
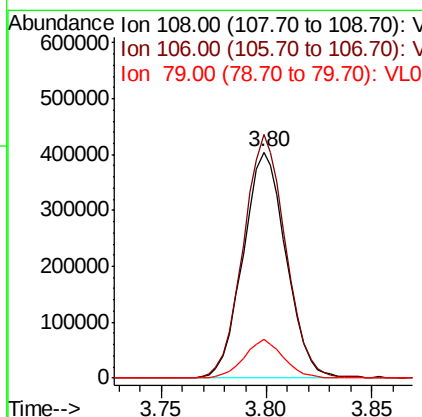
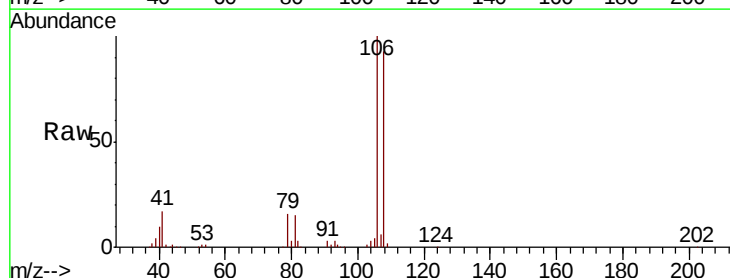
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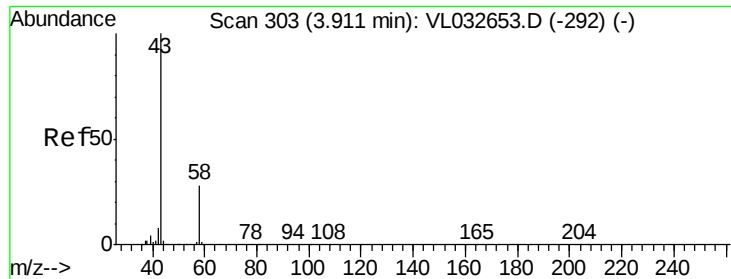
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#14
Bromoethene
Concen: 9.328 ppbv
RT: 3.80 min Scan# 268
Delta R.T. -0.00 min
Lab File: VL032653.D
Acq: 18 Oct 2018 16:06

Tgt Ion	108	Resp	570581
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
106	107.2	85.0	127.4
79	16.1	13.7	20.5





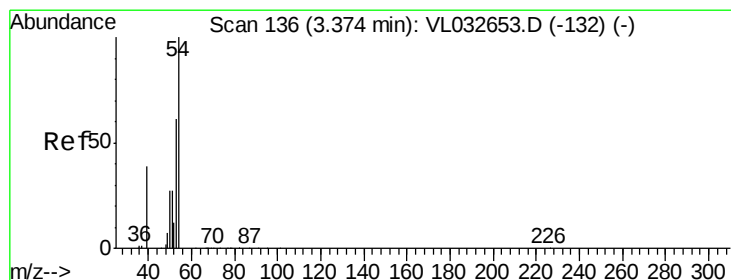
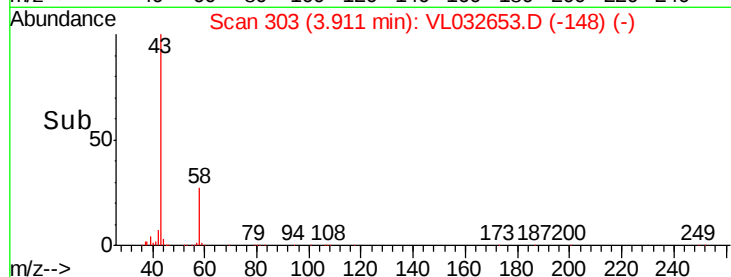
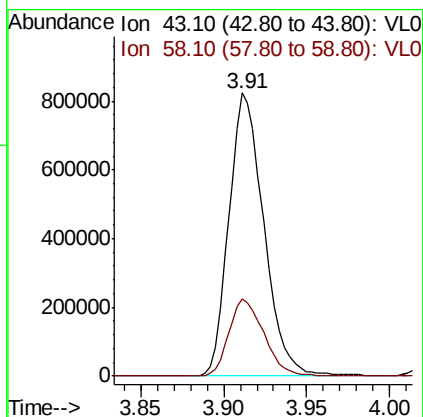
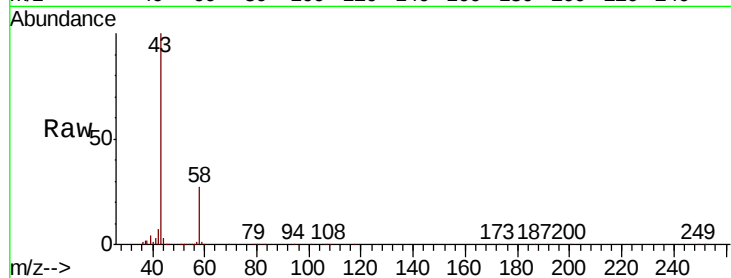
#15
Acetone
Concen: 7.597 ppbv
RT: 3.91 min Scan# 303
Delta R.T. -0.00 min
Lab File: VL032653.D
Acq: 18 Oct 2018 16:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 43 Resp: 1201815
Ion Ratio Lower Upper
43 100
58 27.5 22.1 33.1

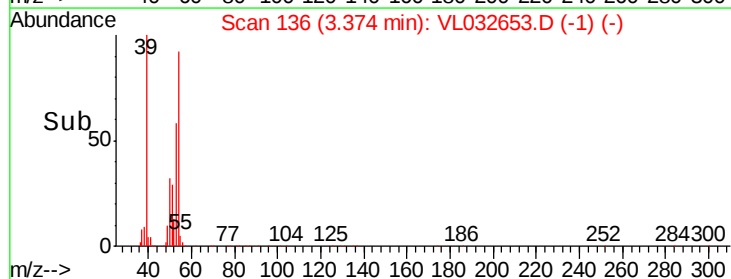
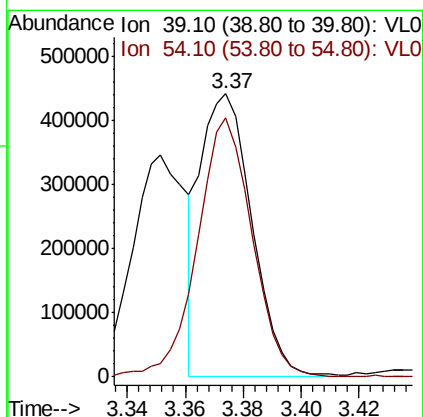
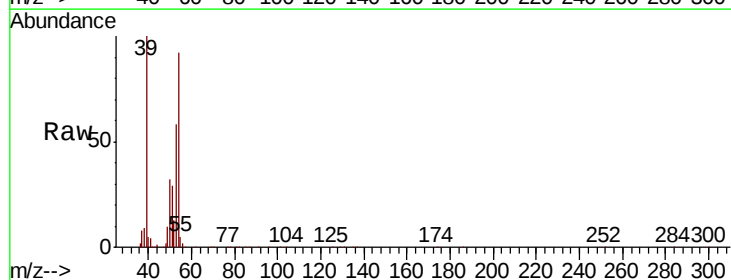
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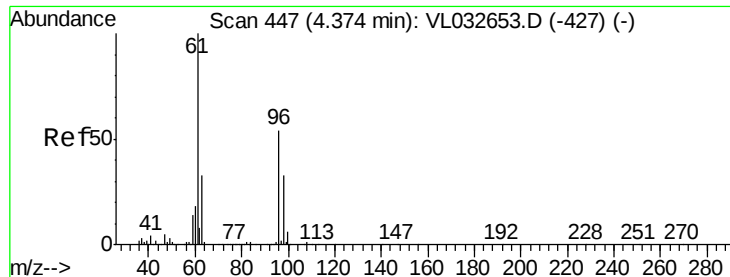
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#16
1,3-Butadiene
Concen: 9.214 ppbv
RT: 3.37 min Scan# 136
Delta R.T. -0.00 min
Lab File: VL032653.D
Acq: 18 Oct 2018 16:06

Tgt Ion: 39 Resp: 539689
Ion Ratio Lower Upper
39 100
54 98.8 90.4 135.6





#17

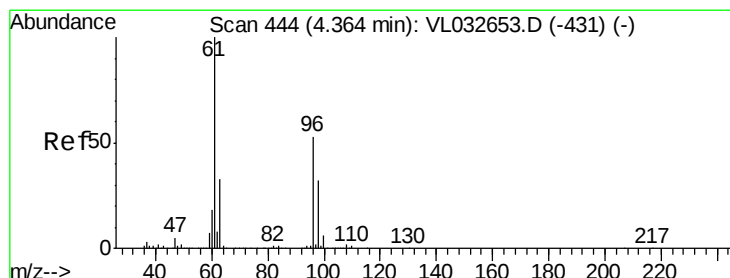
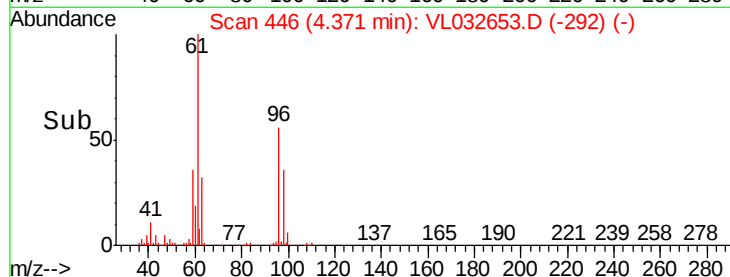
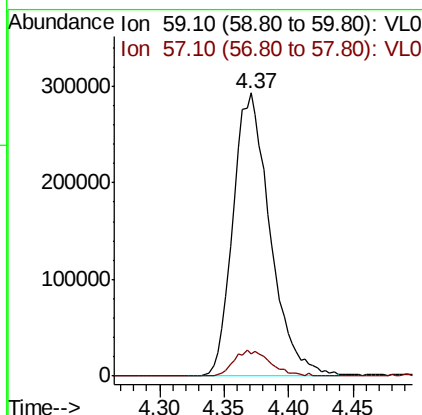
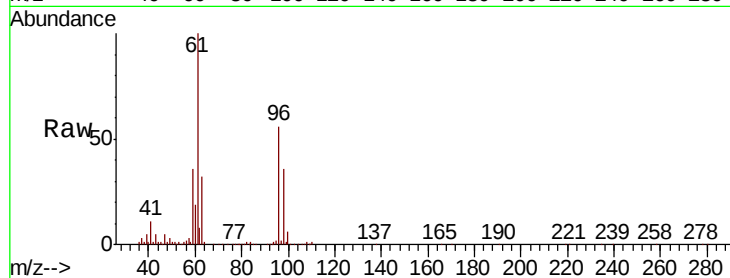
tert-Butyl alcohol
Concen: 40.581 ppbv
RT: 4.37 min Scan# 446
Delta R.T. -0.00 min
Lab File: VL032653.D
Acq: 18 Oct 2018 16:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.2	0.0	0.0#

Manual Integrations
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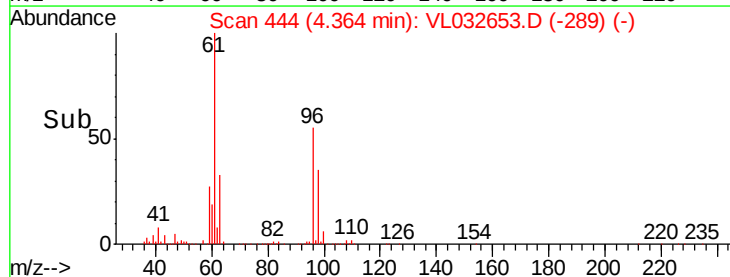
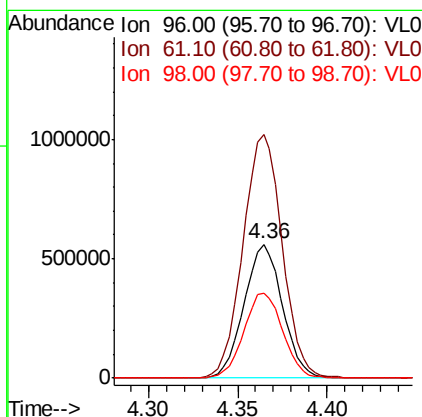
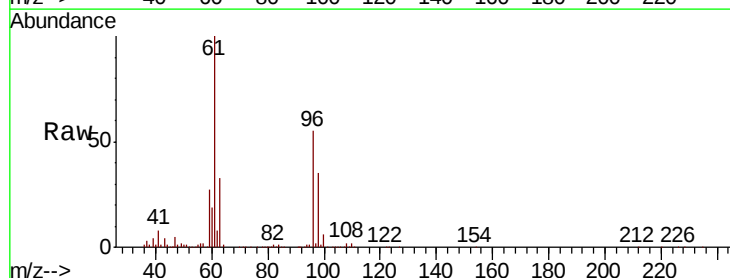
MMDadoda
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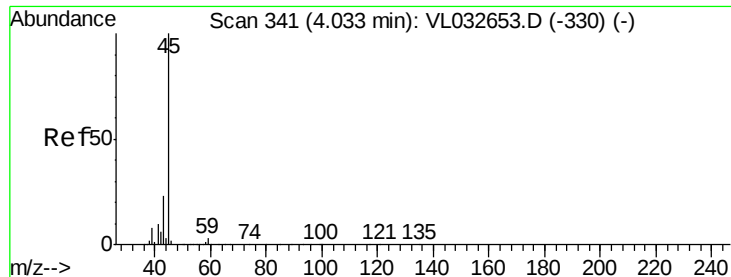


#18

1,1-Dichloroethene
Concen: 11.150 ppbv
RT: 4.36 min Scan# 444
Delta R.T. -0.00 min
Lab File: VL032653.D
Acq: 18 Oct 2018 16:06

Tgt Ion	Ratio	Lower	Upper
96	100		
61	181.9	151.6	227.4
98	63.3	50.6	75.8





#19

Isopropyl Alcohol

Concen: 9.009 ppbv

RT: 4.03 min Scan# 341

Delta R.T. -0.00 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 45 Resp: 1006447

Ion Ratio Lower Upper

45 100

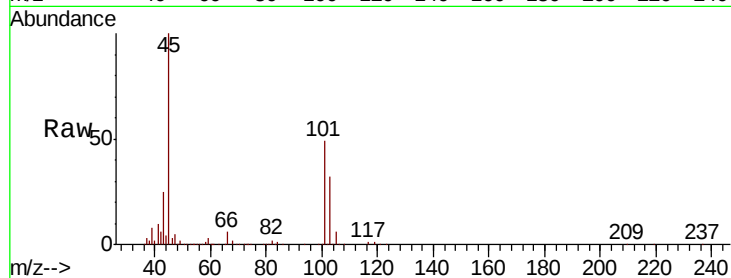
58 1.5 2.0 3.0#

Manual Integrations

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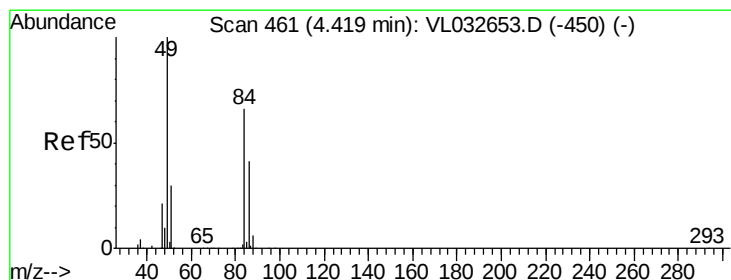
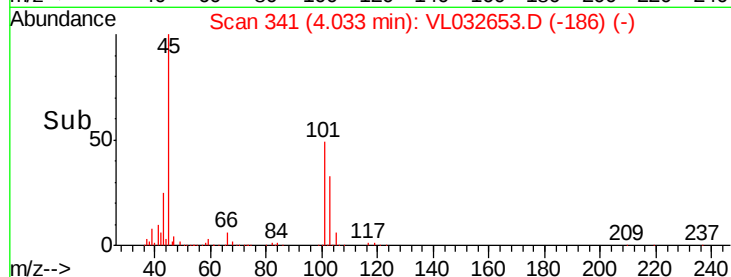
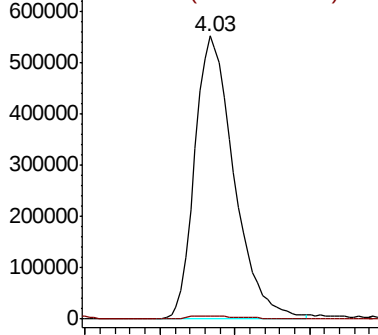
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 10.268 ppbv

RT: 4.42 min Scan# 462

Delta R.T. 0.00 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

Tgt Ion: 84 Resp: 727649

Ion Ratio Lower Upper

84 100

49 138.6 113.5 170.3

51 42.1 34.8 52.2

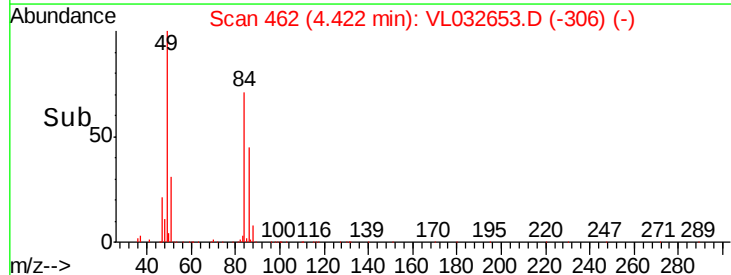
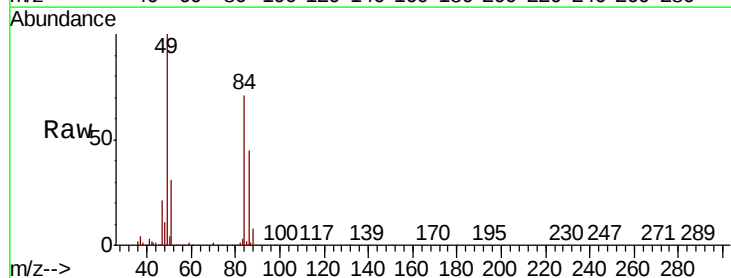
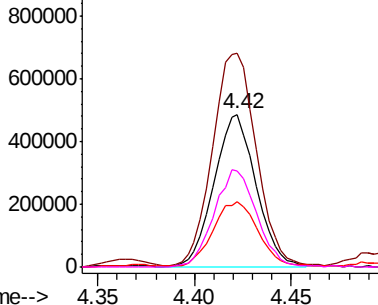
86 63.6 47.9 71.9

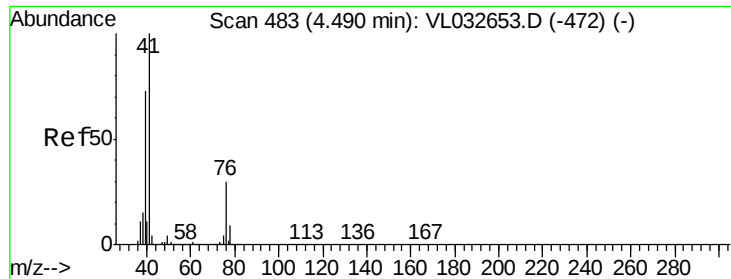
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#21

Allvl Chloride

Concen: 11.409 ppbv

RT: 4.49 min Scan# 483

Delta R.T. -0.00 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 41 Resp: 1354376

Ion Ratio Lower Upper

41 100

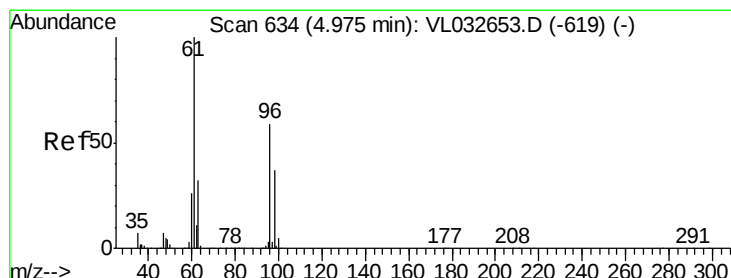
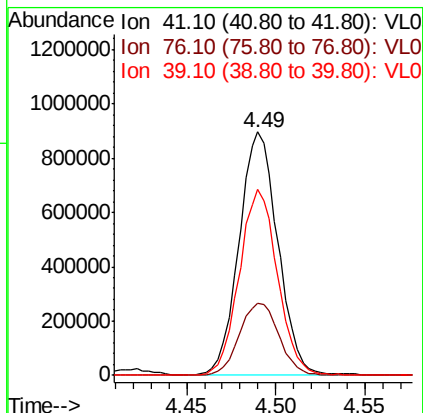
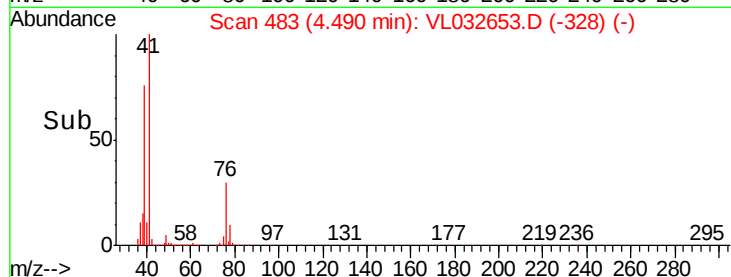
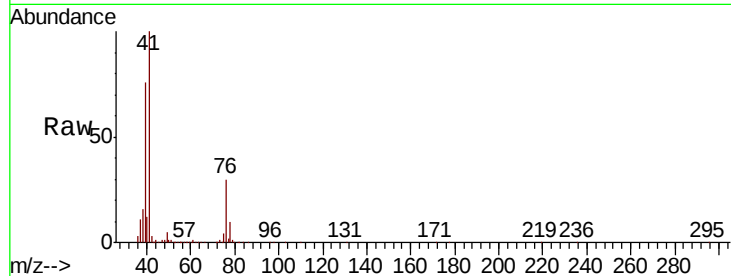
76 30.6 24.3 36.5

39 76.1 60.3 90.5

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 9.569 ppbv

RT: 4.98 min Scan# 635

Delta R.T. 0.00 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

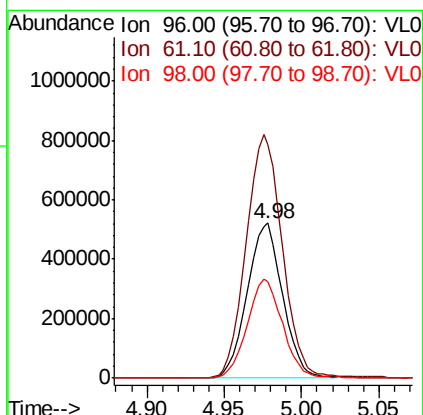
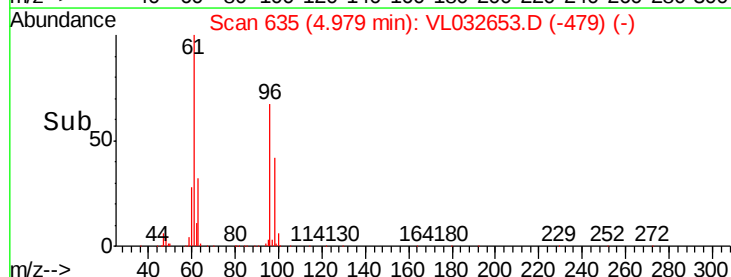
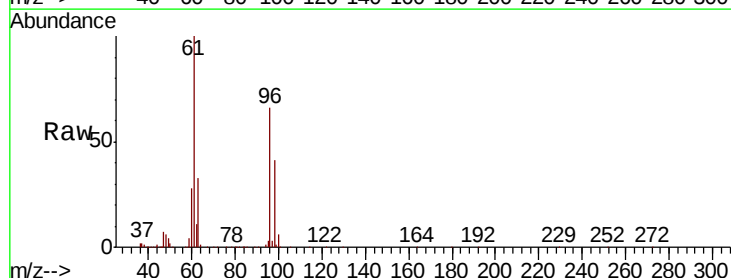
Tgt Ion: 96 Resp: 833456

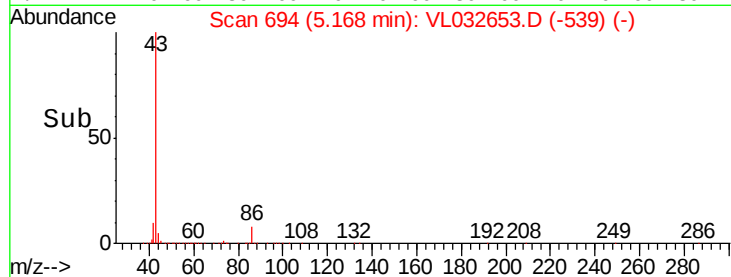
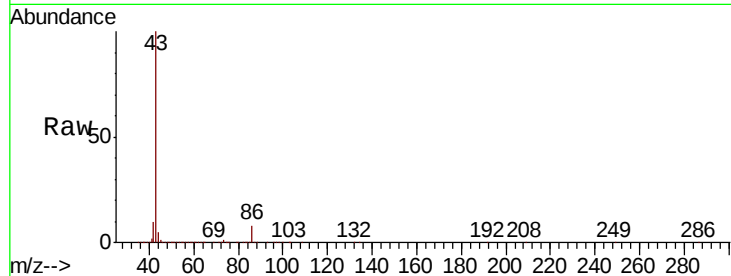
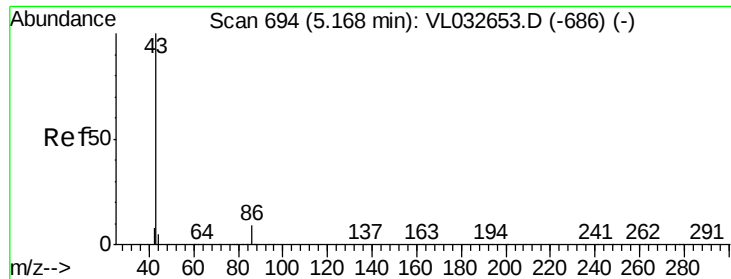
Ion Ratio Lower Upper

96 100

61 150.7 140.4 210.6

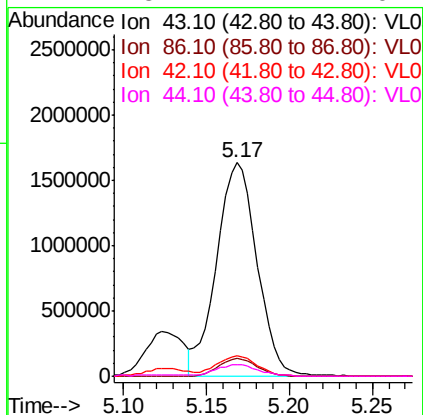
98 62.3 55.0 82.6





#23
 Vinyl Acetate
 Concen: 10.941 ppbv
 RT: 5.17 min Scan# 694
 Delta R.T. -0.00 min
 Lab File: VL032653.D
 Acq: 18 Oct 2018 16:06

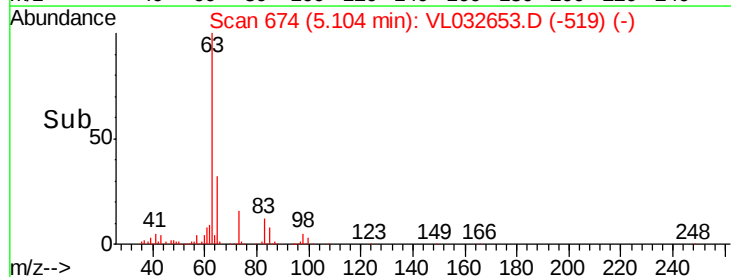
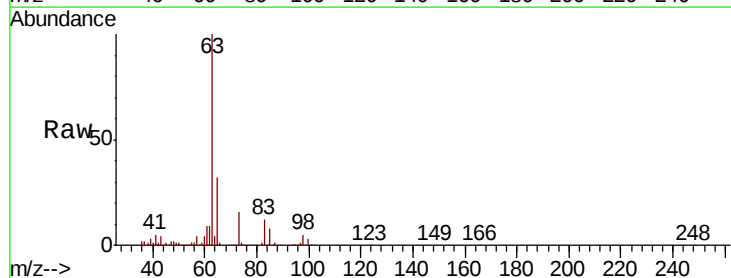
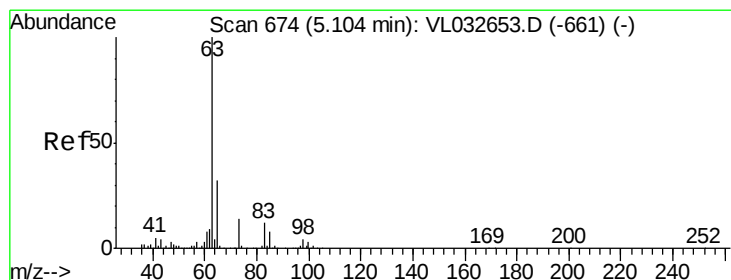
Tot Ion	43	Resp	2753279
Ion	Ratio	Lower	Upper
43	100		
86	8.2	6.1	9.1
42	9.7	7.4	11.2
44	5.1	4.2	6.2



Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

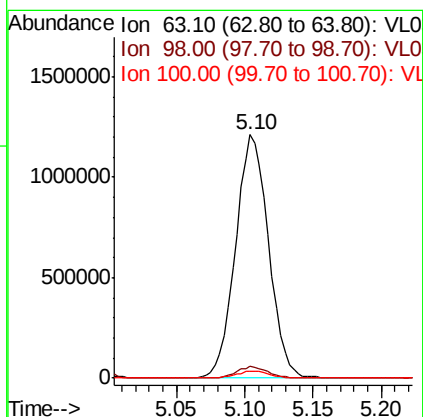
Manual Integrations
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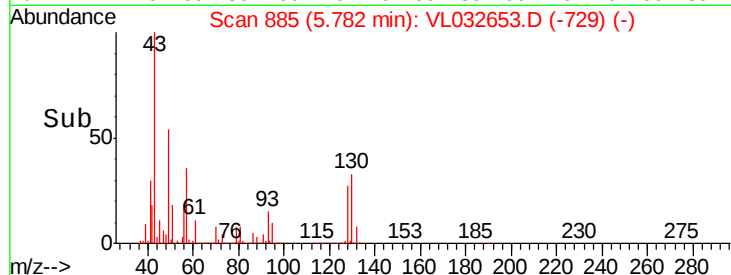
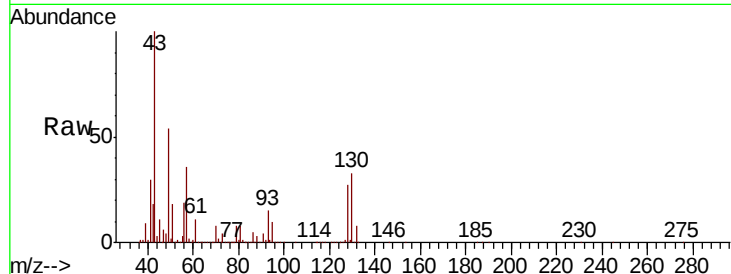
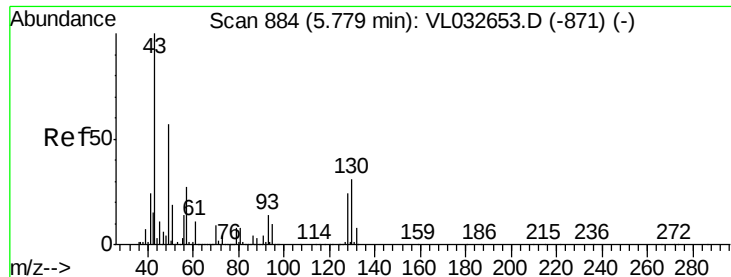
MMDadoda
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#24
 1,1-Dichloroethane
 Concen: 8.709 ppbv
 RT: 5.10 min Scan# 674
 Delta R.T. -0.00 min
 Lab File: VL032653.D
 Acq: 18 Oct 2018 16:06

Tgt Ion	63	Resp	2031872
Ion	Ratio	Lower	Upper
63	100		
98	5.0	2.1	6.3
100	2.8	1.2	3.6





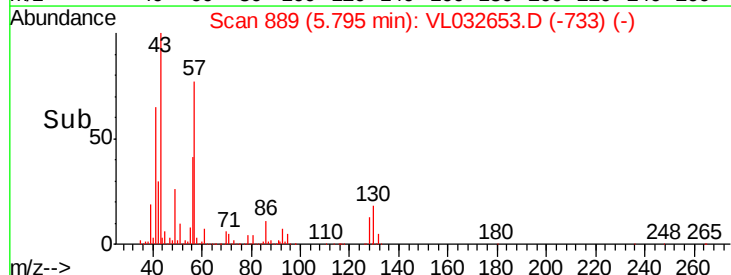
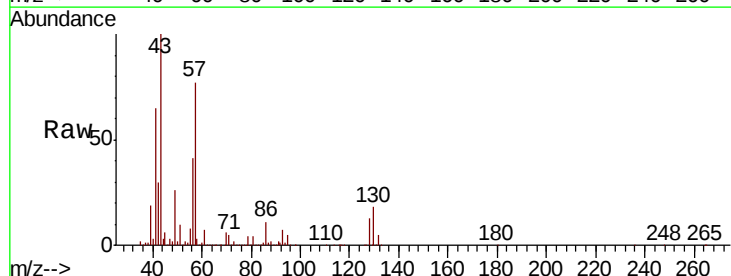
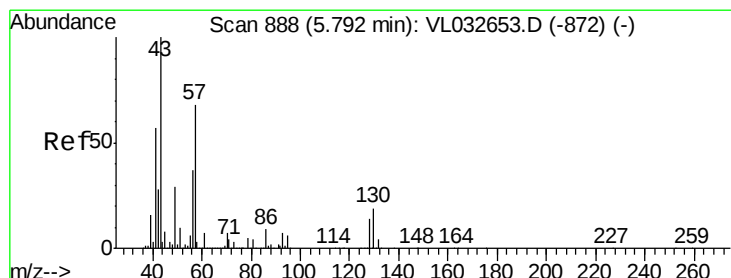
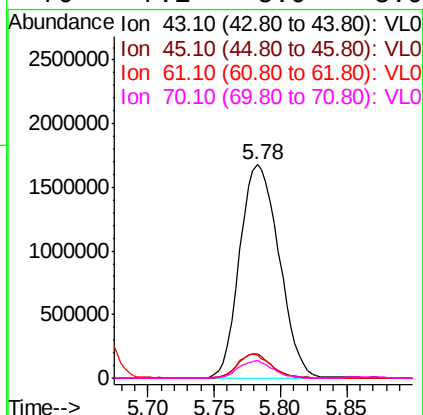
#25
Ethyl Acetate
Concen: 9.283 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.00 min
Lab File: VL032653.D
Acq: 18 Oct 2018 16:06

Tot Ion	Ion	Ratio	Lower	Upper
43	43.10 (42.80 to 43.80): VL0	100		
45	45.10 (44.80 to 45.80): VL0	9.8	8.0	12.0
61	61.10 (60.80 to 61.80): VL0	9.6	8.0	12.0
70	70.10 (69.80 to 70.80): VL0	7.1	5.9	8.9

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

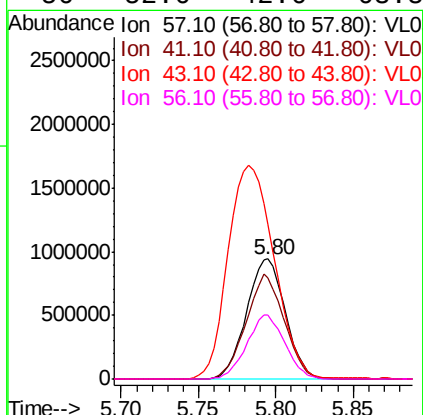
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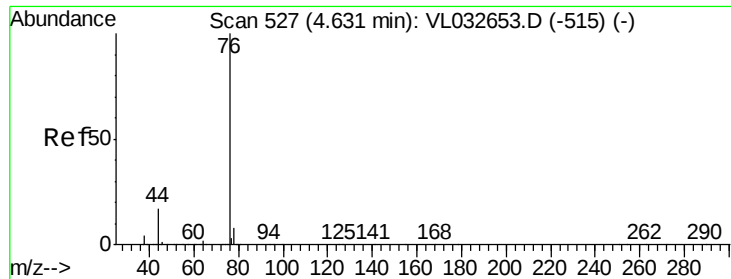
MMDadoda
10/24/2018 12:04:14 PM



#26
Hexane
Concen: 9.757 ppbv
RT: 5.80 min Scan# 889
Delta R.T. 0.00 min
Lab File: VL032653.D
Acq: 18 Oct 2018 16:06

Tgt Ion	Ion	Ratio	Lower	Upper
57	57.10 (56.80 to 57.80): VL0	100		
41	41.10 (40.80 to 41.80): VL0	85.8	67.4	101.0
43	43.10 (42.80 to 43.80): VL0	212.4	171.9	257.9
56	56.10 (55.80 to 56.80): VL0	52.6	42.6	63.8





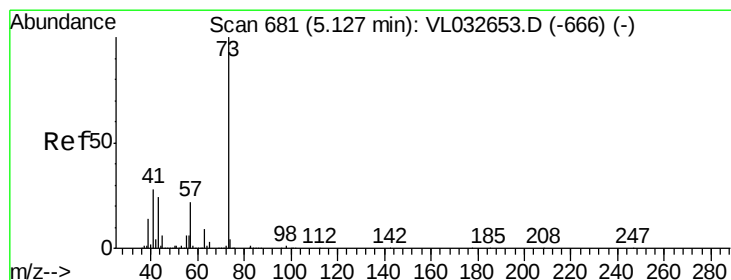
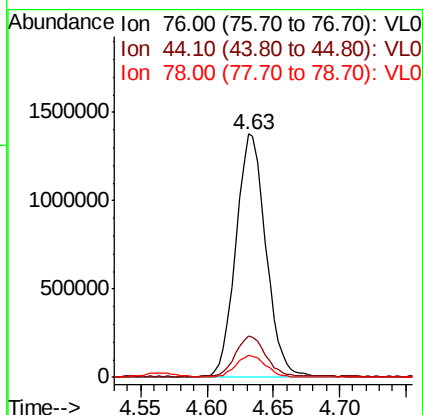
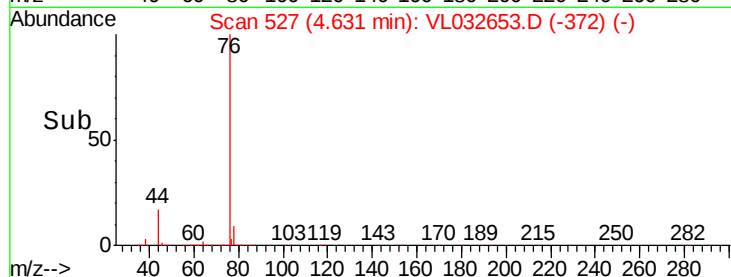
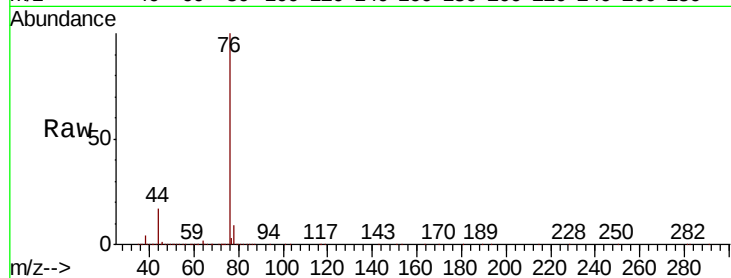
#27
Carbon Disulfide
Concen: 10.684 ppbv
RT: 4.63 min Scan# 527
Delta R.T. -0.00 min
Lab File: VL032653.D
Acq: 18 Oct 2018 16:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
76	100		
44	16.8	13.7	20.5
78	9.1	7.4	11.2

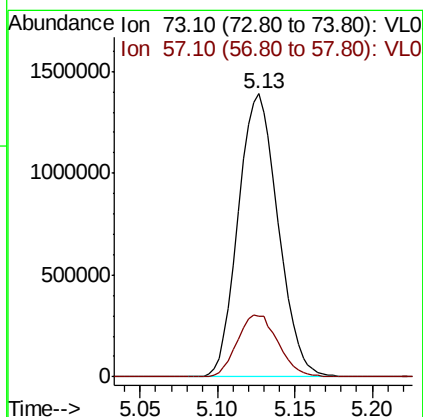
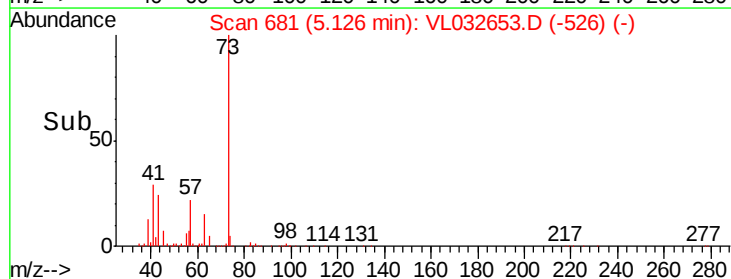
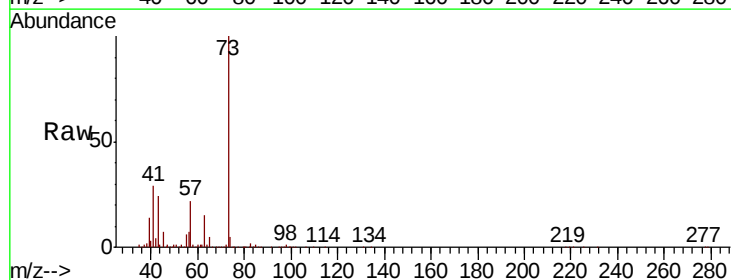
Manual Integrations
APPROVED

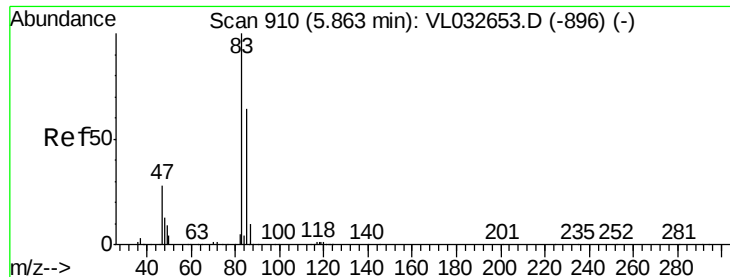
MMDadoda
10/24/2018 12:04:14 PM



#28
Methyl tert-Butyl Ether
Concen: 11.771 ppbv
RT: 5.13 min Scan# 681
Delta R.T. -0.00 min
Lab File: VL032653.D
Acq: 18 Oct 2018 16:06

Tgt Ion	Ratio	Lower	Upper
73	100		
57	22.7	18.0	27.0





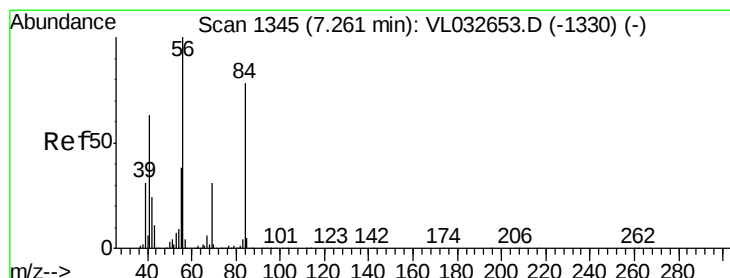
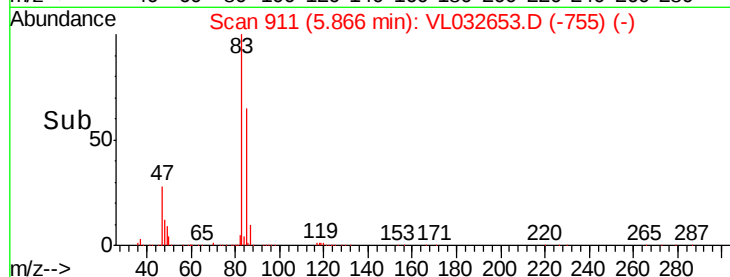
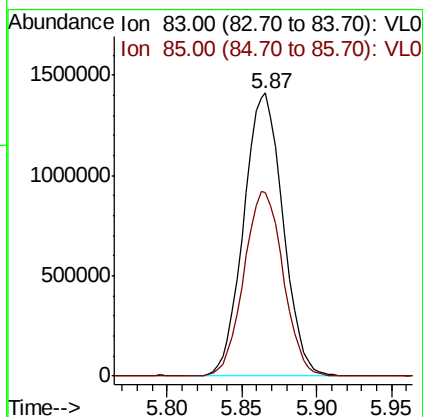
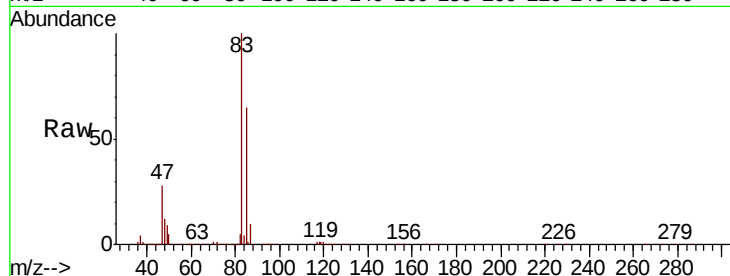
#29
Chloroform
Concen: 8.731 ppbv
RT: 5.87 min Scan# 911
Delta R.T. 0.00 min
Lab File: VL032653.D
Acq: 18 Oct 2018 16:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 83 Resp: 2580057
Ion Ratio Lower Upper
83 100
85 64.9 53.0 79.6

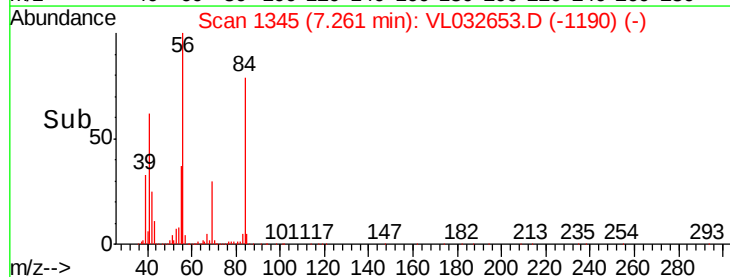
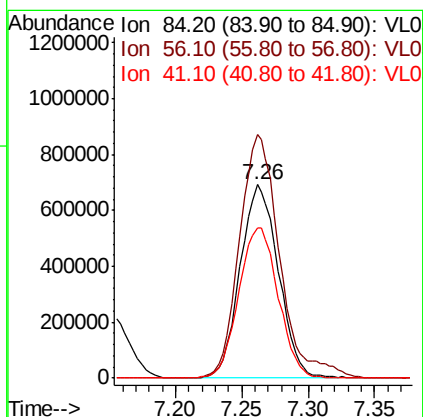
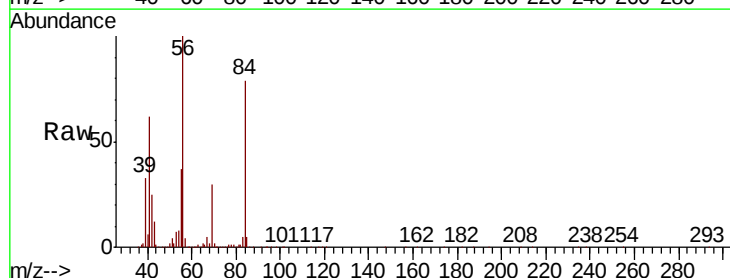
Manual Integrations
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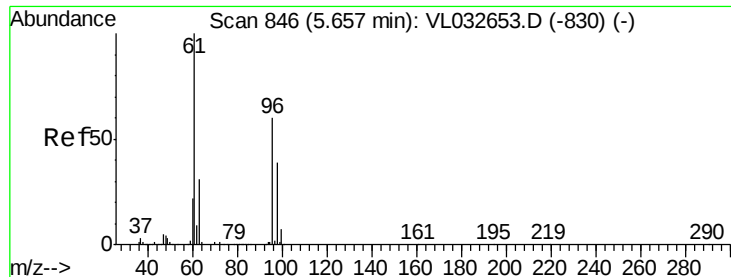
MMDadoda
10/24/2018 12:04:14 PM



#30
Cyclohexane
Concen: 10.434 ppbv
RT: 7.26 min Scan# 1345
Delta R.T. -0.00 min
Lab File: VL032653.D
Acq: 18 Oct 2018 16:06

Tgt Ion: 84 Resp: 1387313
Ion Ratio Lower Upper
84 100
56 132.5 108.3 162.5
41 80.1 64.8 97.2





#31

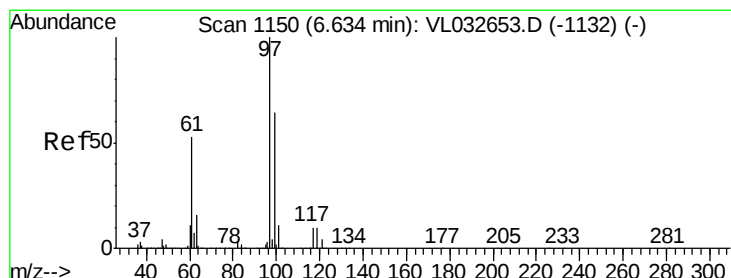
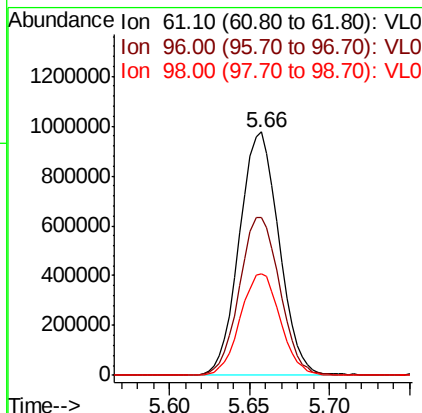
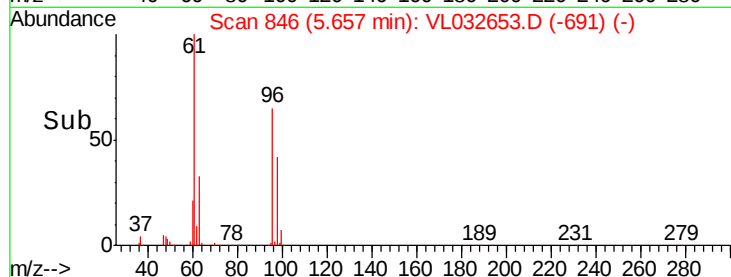
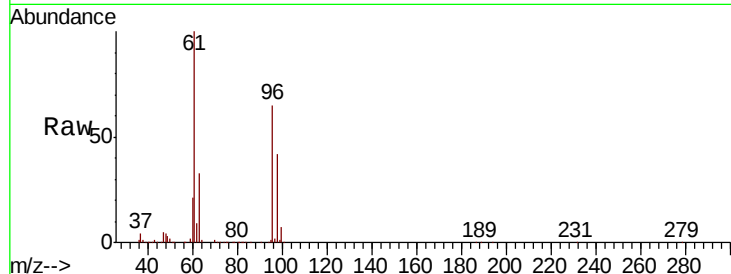
cis-1,2-Dichloroethene
Concen: 10.204 ppbv
RT: 5.66 min Scan# 846
Delta R.T. -0.00 min
Lab File: VL032653.D
Acq: 18 Oct 2018 16:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 61 Resp: 1652738
Ion Ratio Lower Upper
61 100
96 65.0 51.8 77.6
98 41.7 33.8 50.6

Manual Integrations
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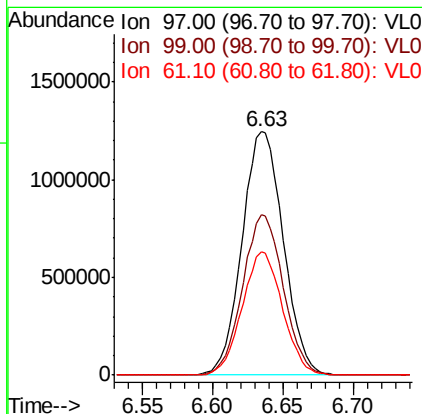
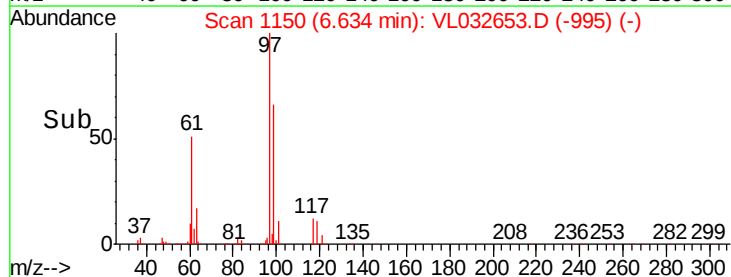
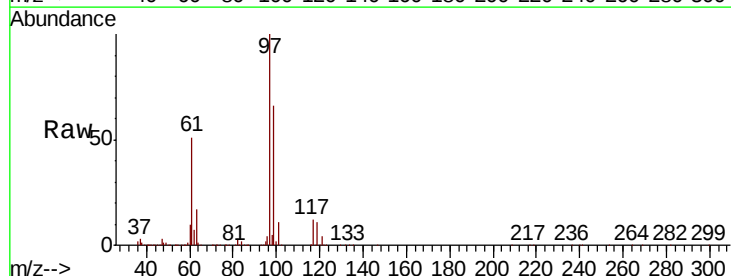
MMDadoda
10/24/2018 12:04:14 PM

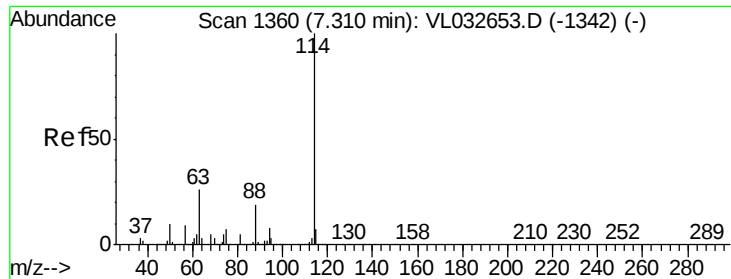


#32

1,1,1-Trichloroethane
Concen: 8.660 ppbv
RT: 6.63 min Scan# 1150
Delta R.T. -0.00 min
Lab File: VL032653.D
Acq: 18 Oct 2018 16:06

Tgt Ion: 97 Resp: 2552781
Ion Ratio Lower Upper
97 100
99 65.2 52.0 78.0
61 49.7 40.7 61.1





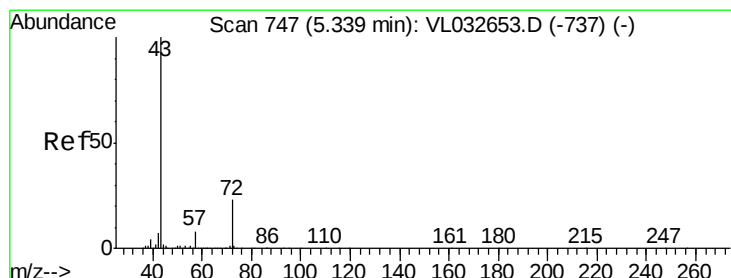
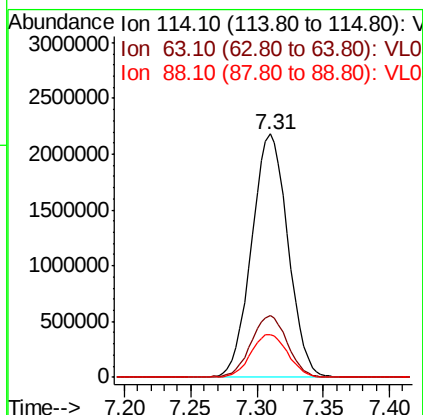
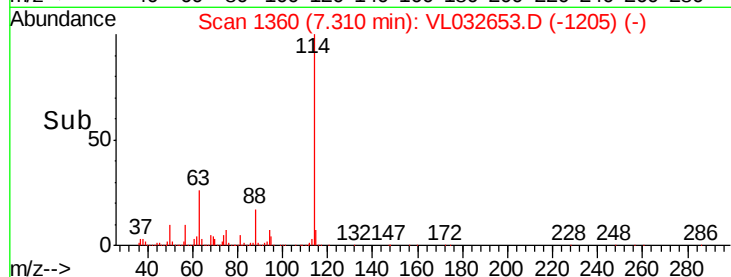
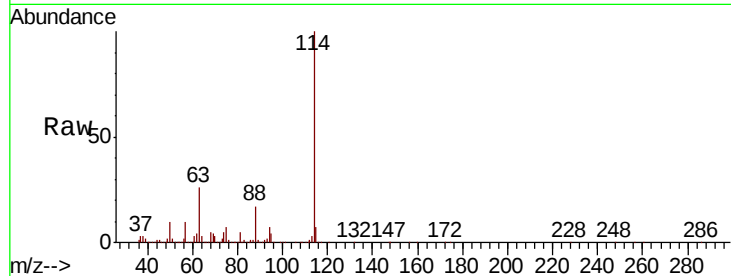
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.31 min Scan# 1360
 Delta R.T. -0.00 min
 Lab File: VL032653.D
 Acq: 18 Oct 2018 16:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:114 Resp: 4155877
 Ion Ratio Lower Upper
 114 100
 63 25.8 21.7 32.5
 88 18.0 14.9 22.3

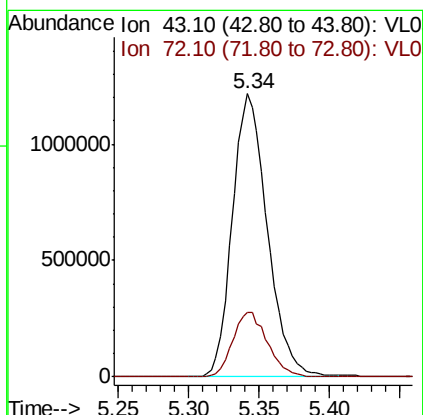
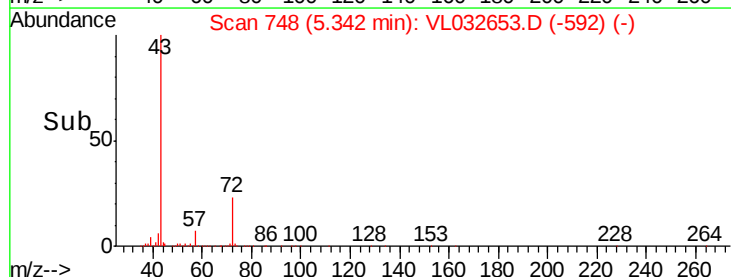
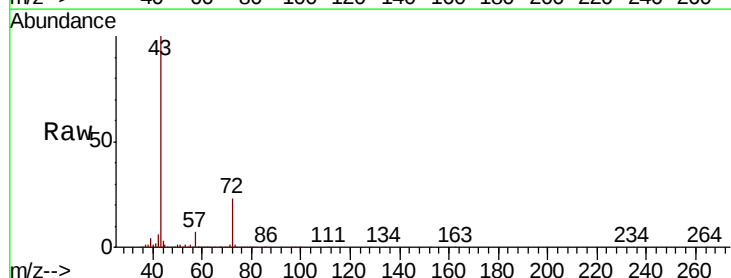
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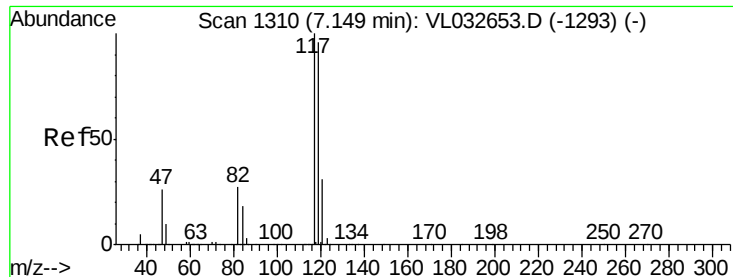
MMDadoda
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#34
 2-Butanone
 Concen: 9.111 ppbv
 RT: 5.34 min Scan# 748
 Delta R.T. 0.00 min
 Lab File: VL032653.D
 Acq: 18 Oct 2018 16:06

Tgt Ion: 43 Resp: 2101645
 Ion Ratio Lower Upper
 43 100
 72 23.2 18.6 27.8





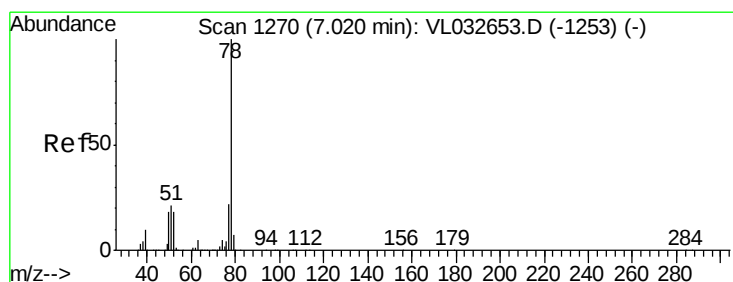
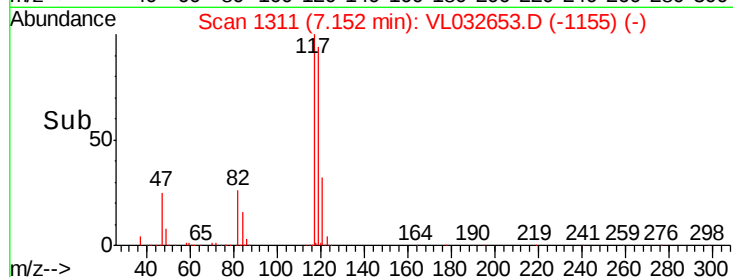
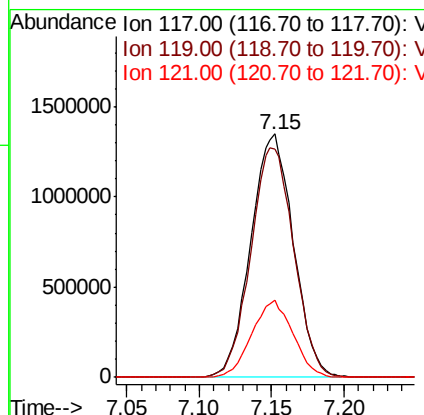
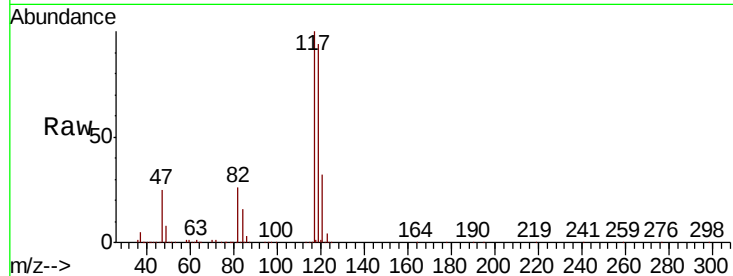
#35
Carbon Tetrachloride
Concen: 8.549 ppbv
RT: 7.15 min Scan# 1311
Delta R.T. 0.00 min
Lab File: VL032653.D
Acq: 18 Oct 2018 16:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion:117 Resp: 2753529
Ion Ratio Lower Upper
117 100
119 93.6 75.7 113.5
121 31.7 24.7 37.1

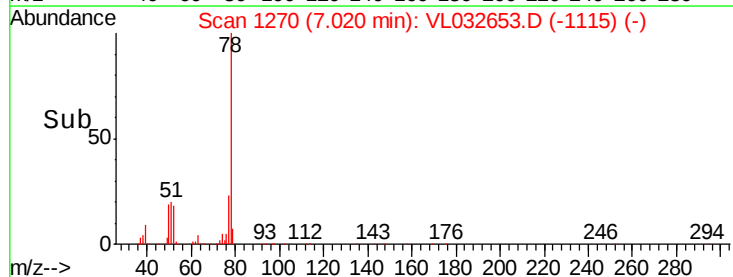
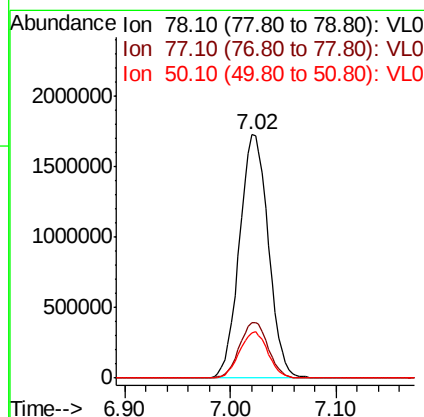
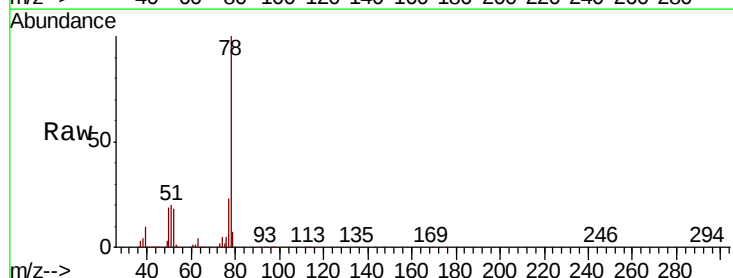
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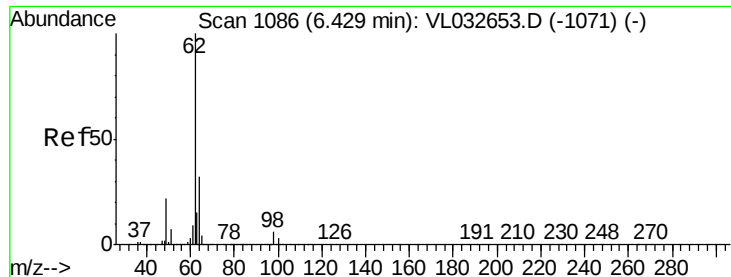
MMDadoda
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#36
Benzene
Concen: 9.779 ppbv
RT: 7.02 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VL032653.D
Acq: 18 Oct 2018 16:06

Tgt Ion: 78 Resp: 3294160
Ion Ratio Lower Upper
78 100
77 22.6 18.1 27.1
50 18.8 15.1 22.7





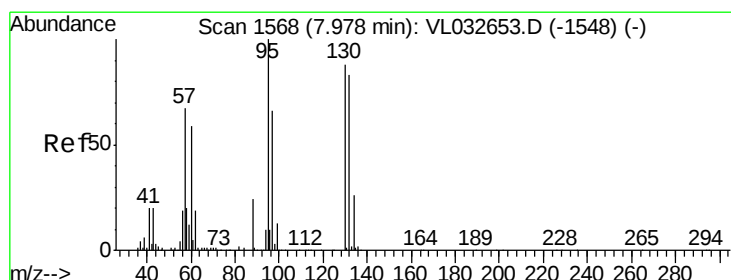
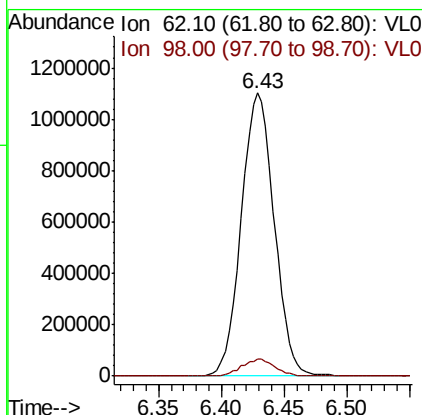
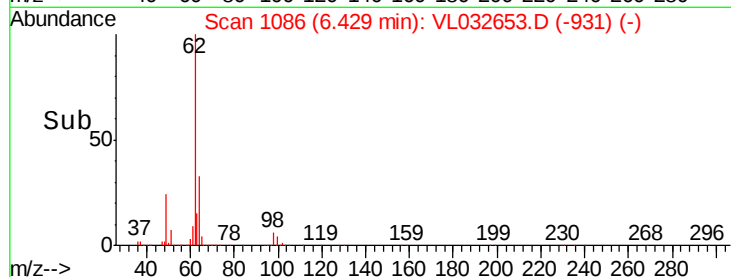
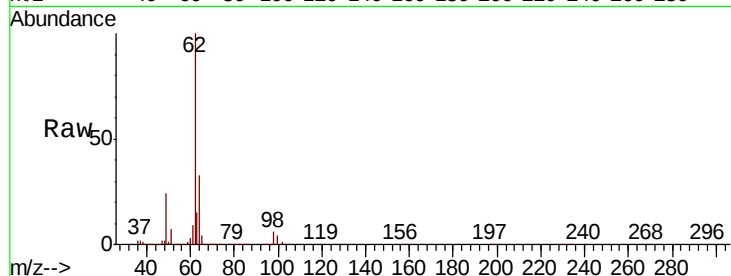
#37
 1,2-Dichloroethane
 Concen: 8.711 ppbv
 RT: 6.43 min Scan# 1086
 Delta R.T. -0.00 min
 Lab File: VL032653.D
 Acq: 18 Oct 2018 16:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 62 Resp: 2012377
 Ion Ratio Lower Upper
 62 100
 98 6.1 4.4 6.6

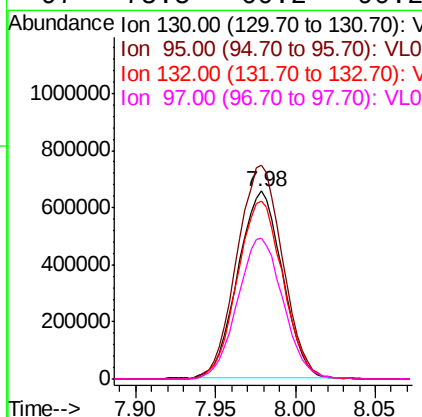
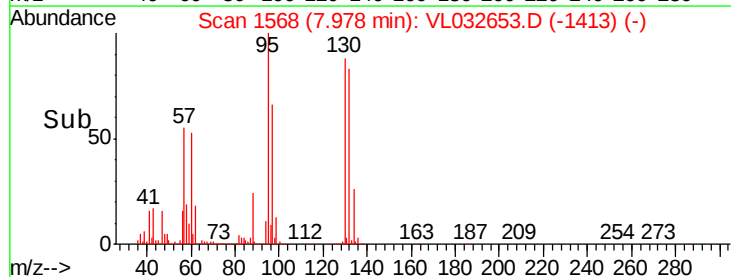
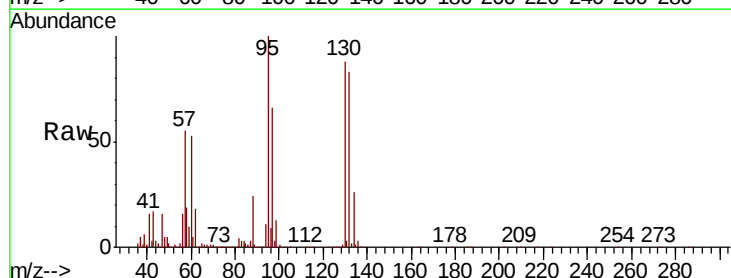
Manual Integrations
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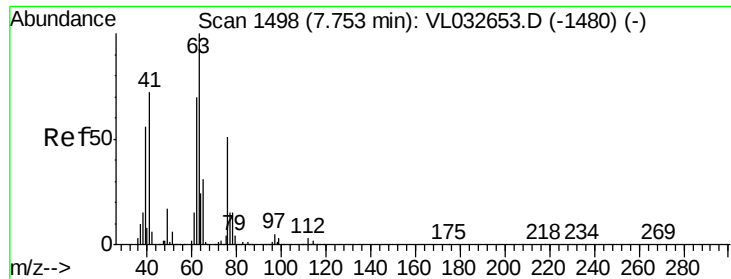
MMDadoda
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#38
 Trichloroethene
 Concen: 9.871 ppbv
 RT: 7.98 min Scan# 1568
 Delta R.T. -0.00 min
 Lab File: VL032653.D
 Acq: 18 Oct 2018 16:06

Tgt Ion: 130 Resp: 1250229
 Ion Ratio Lower Upper
 130 100
 95 114.0 93.4 140.0
 132 94.7 76.5 114.7
 97 75.5 60.2 90.2





#39

1,2-Dichloropropane

Concen: 9.131 ppbv

RT: 7.75 min Scan# 1498

Delta R.T. -0.00 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 63 Resp: 1251213

Ion Ratio Lower Upper

63 100

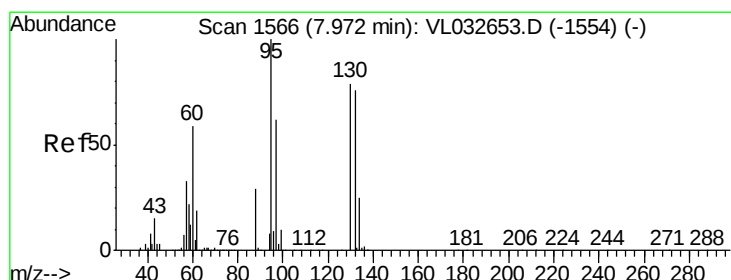
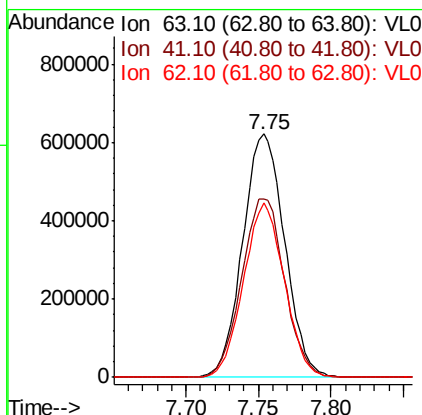
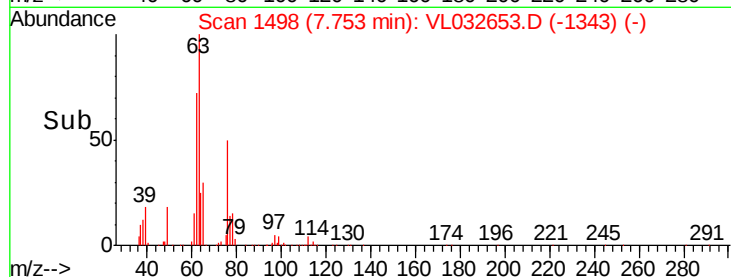
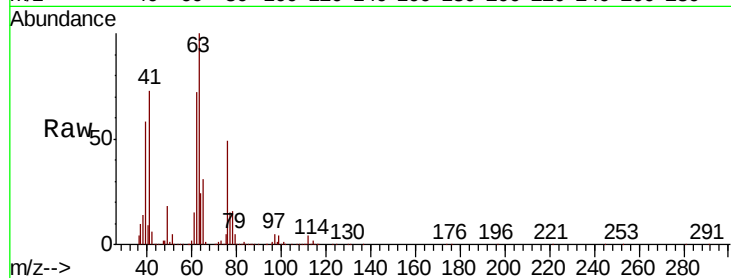
41 72.9 56.2 84.4

62 71.8 54.4 81.6

Manual Integrations
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#40

1,4-Dioxane

Concen: 9.461 ppbv

RT: 7.97 min Scan# 1565

Delta R.T. -0.00 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

Tgt Ion: 88 Resp: 447899

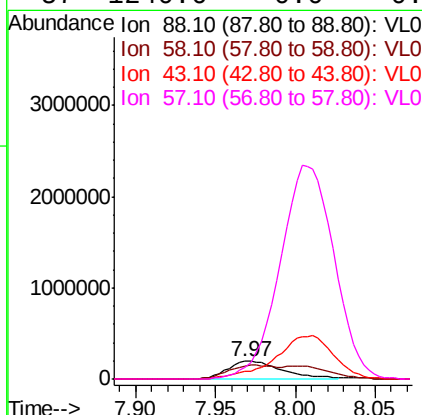
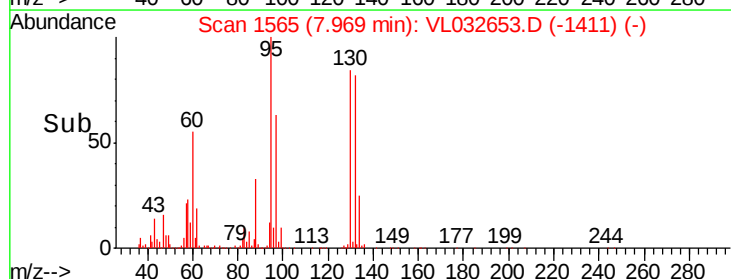
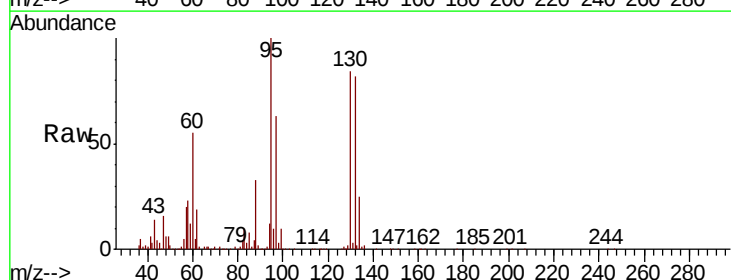
Ion Ratio Lower Upper

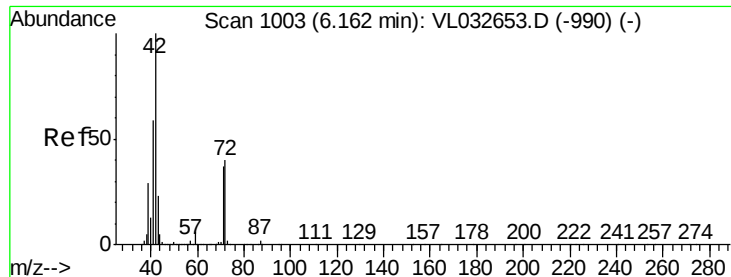
88 100

58 132.7 104.0 156.0

43 273.3 0.0 0.0#

57 1240.6 0.0 0.0#





#41

Tetrahydrofuran

Concen: 10.648 ppbv

RT: 6.16 min Scan# 1004

Delta R.T. 0.00 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 42 Resp: 1303098

Ion Ratio Lower Upper

42 100

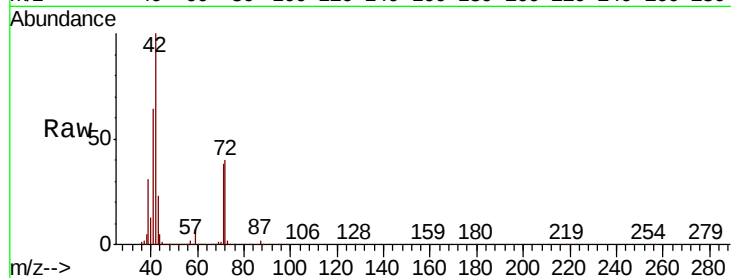
72 40.1 32.4 48.6

71 38.9 31.3 46.9

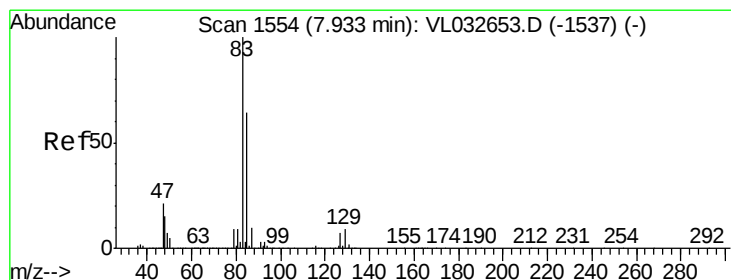
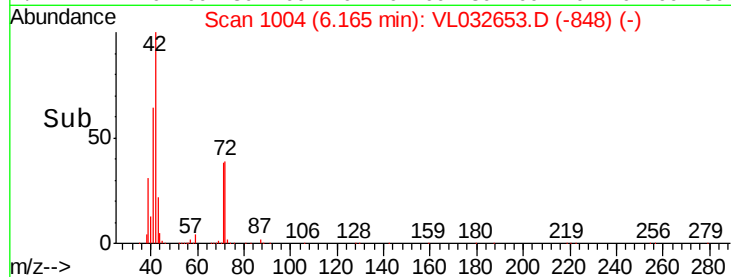
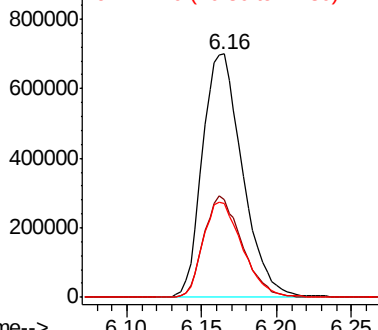
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Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 8.893 ppbv

RT: 7.93 min Scan# 1554

Delta R.T. -0.00 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

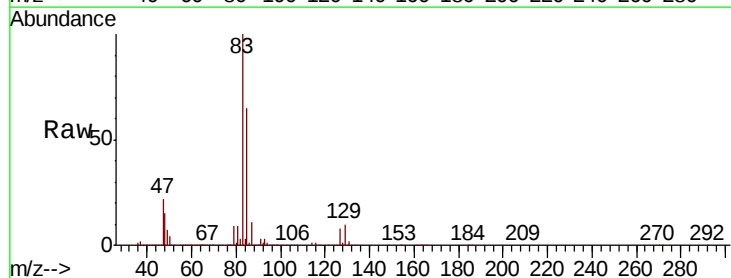
Tgt Ion: 83 Resp: 2800783

Ion Ratio Lower Upper

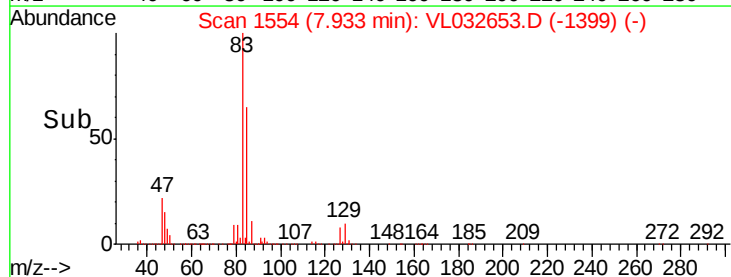
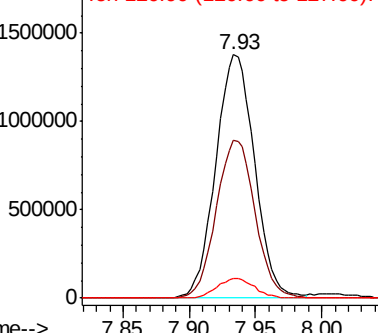
83 100

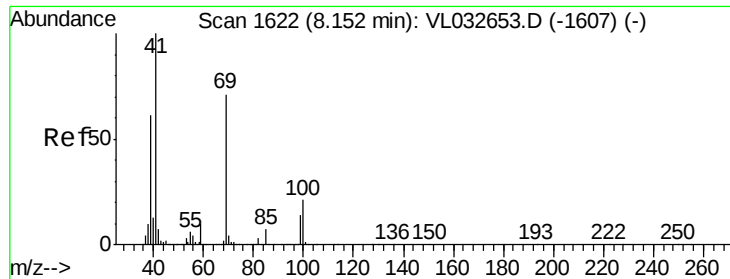
85 65.0 52.4 78.6

127 8.1 6.1 9.1



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V





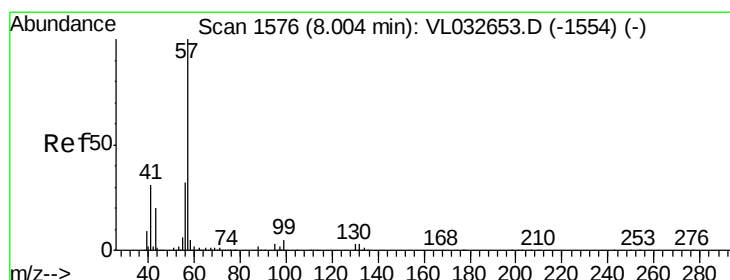
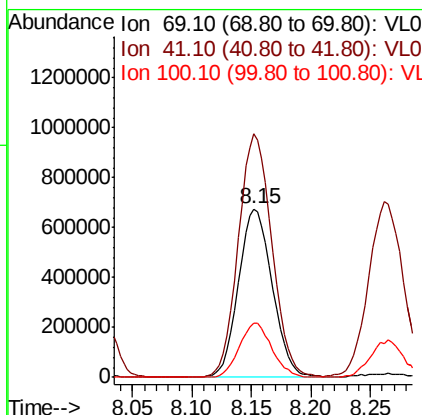
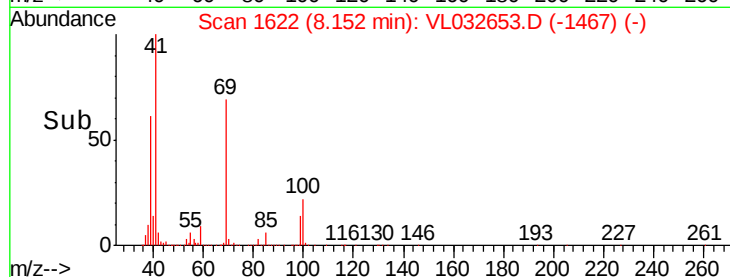
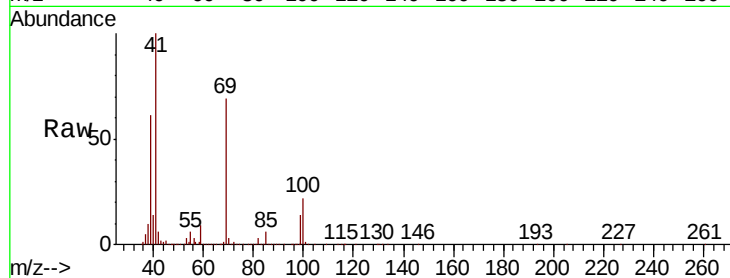
#43
Methvl Methacrvlate
Concen: 10.163 ppbv
RT: 8.15 min Scan# 1622
Delta R.T. -0.00 min
Lab File: VL032653.D
Acq: 18 Oct 2018 16:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 69 Resp: 1327390
Ion Ratio Lower Upper
69 100
41 143.5 113.2 169.8
100 31.1 24.4 36.6

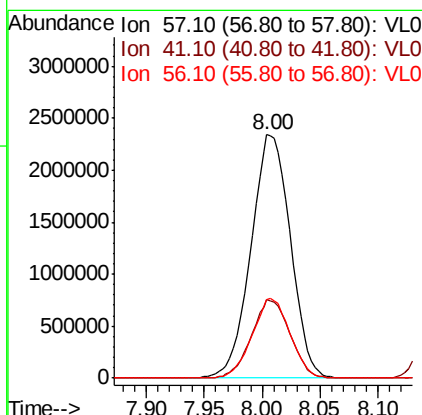
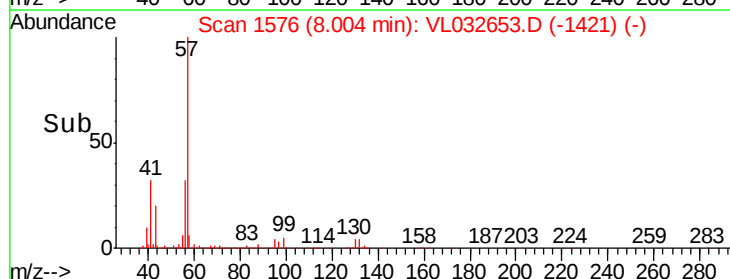
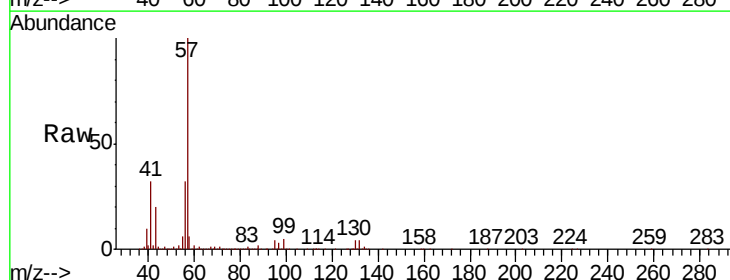
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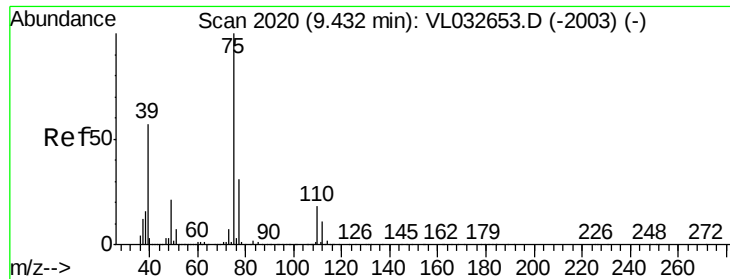
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 9.281 ppbv
RT: 8.00 min Scan# 1576
Delta R.T. -0.00 min
Lab File: VL032653.D
Acq: 18 Oct 2018 16:06

Tgt Ion: 57 Resp: 5542567
Ion Ratio Lower Upper
57 100
41 31.6 24.7 37.1
56 31.5 25.0 37.4





#45

t-1,3-Dichloropropene

Concen: 11.572 ppbv

RT: 9.43 min Scan# 2020

Delta R.T. -0.00 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 75 Resp: 1976366

Ion Ratio Lower Upper

75 100

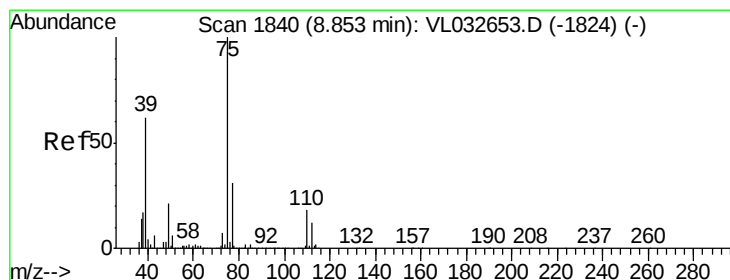
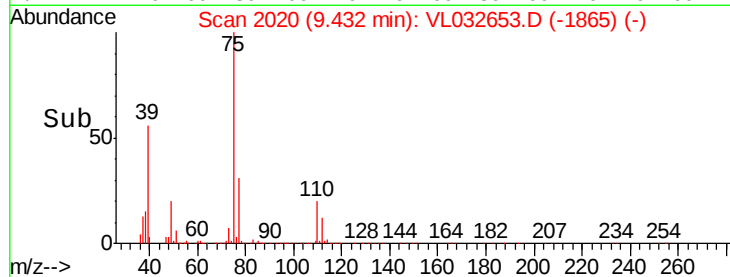
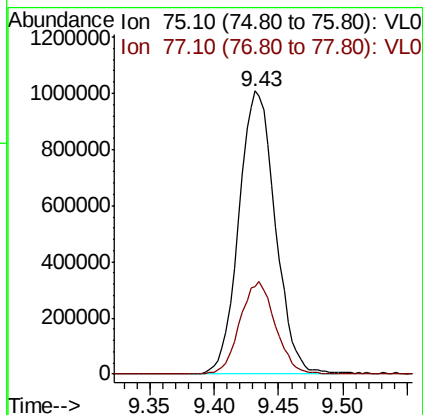
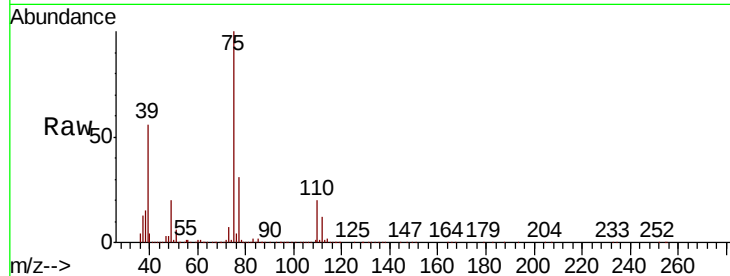
77 30.8 25.3 37.9

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10/24/2018 12:04:14 PM



#46

cis-1,3-Dichloropropene

Concen: 10.781 ppbv

RT: 8.85 min Scan# 1840

Delta R.T. -0.00 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

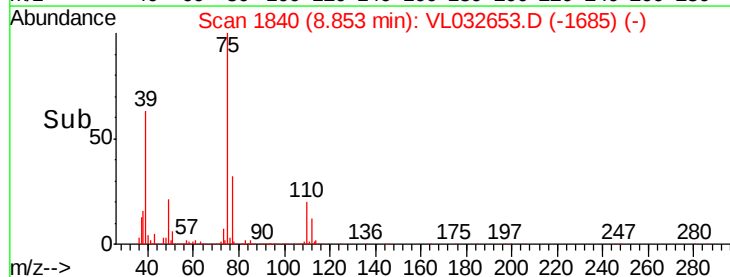
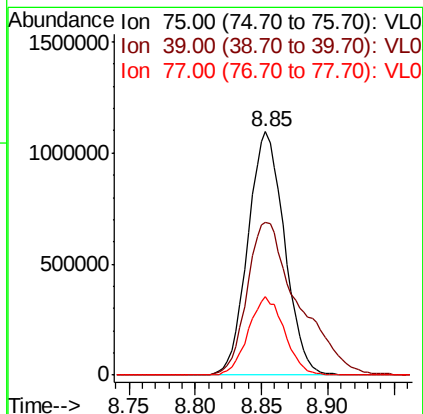
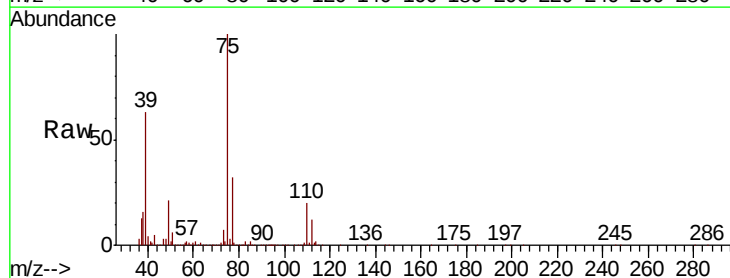
Tgt Ion: 75 Resp: 2096166

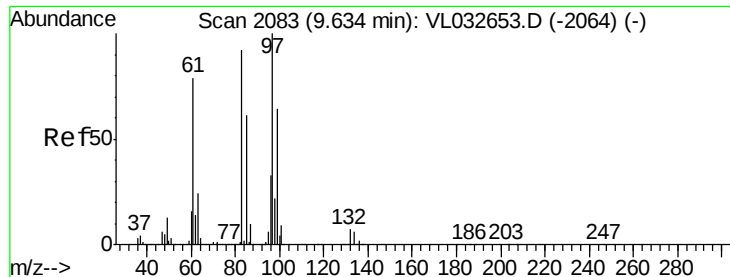
Ion Ratio Lower Upper

75 100

39 62.9 50.9 76.3

77 32.1 25.8 38.6





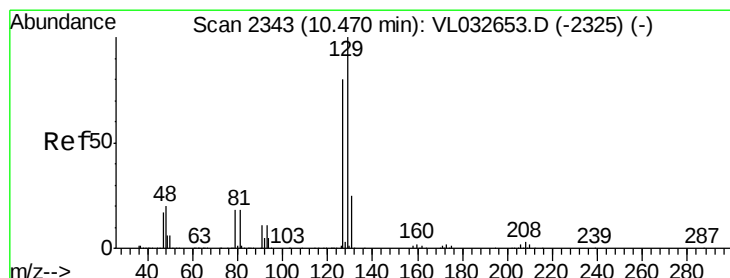
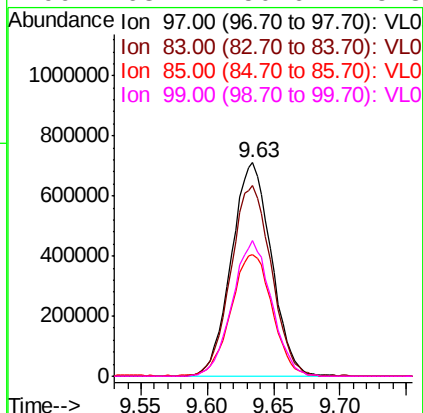
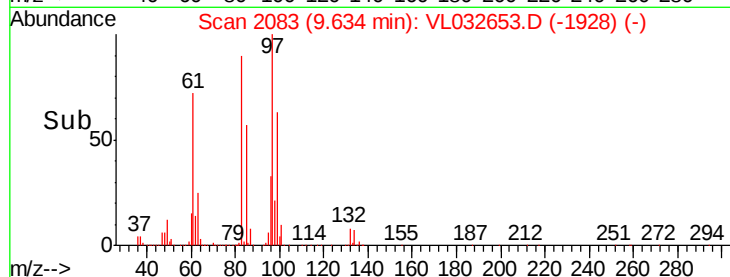
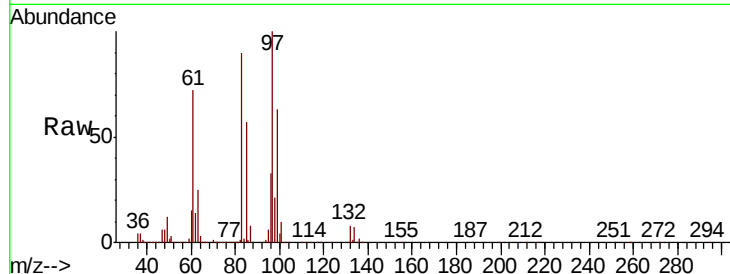
#47
 1,1,2-Trichloroethane
 Concen: 9.081 ppbv
 RT: 9.63 min Scan# 2083
 Delta R.T. -0.00 min
 Lab File: VL032653.D
 Acq: 18 Oct 2018 16:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	89.5	73.5	110.3	
85	56.8	45.8	68.6	
99	63.4	50.6	75.8	

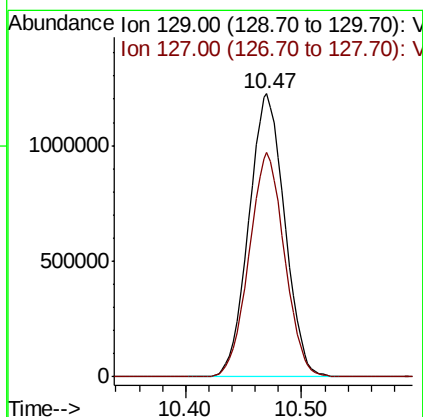
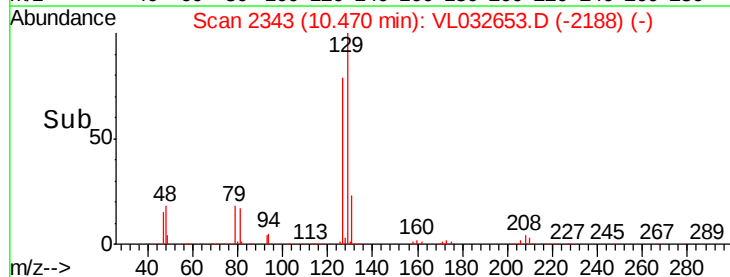
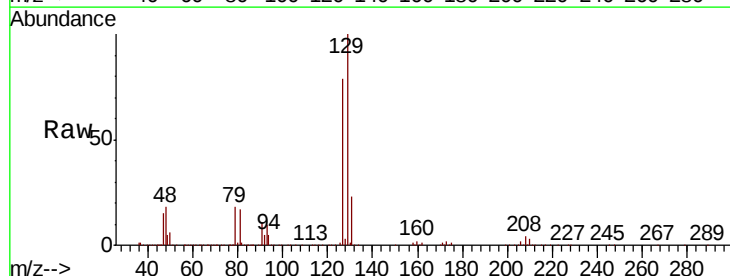
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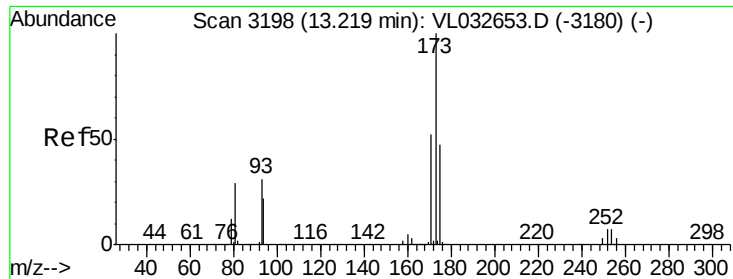
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#48
 Dibromochloromethane
 Concen: 9.482 ppbv
 RT: 10.47 min Scan# 2343
 Delta R.T. -0.00 min
 Lab File: VL032653.D
 Acq: 18 Oct 2018 16:06

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.4	39.1	117.5	





#49

Bromoform

Concen: 9.757 ppbv

RT: 13.22 min Scan# 3199

Delta R.T. 0.00 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:173 Resp: 2050481

Ion Ratio Lower Upper

173 100

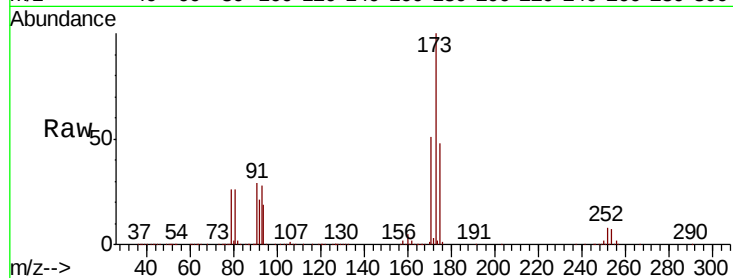
175 48.4 39.0 58.4

171 51.9 42.2 63.2

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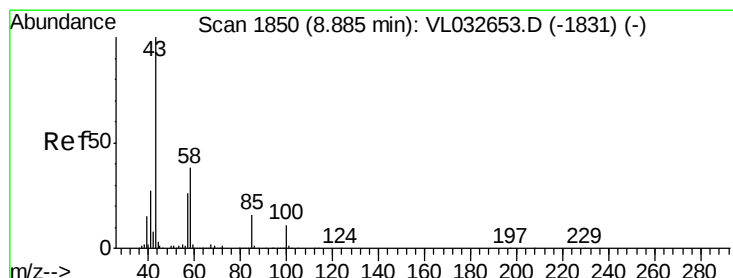
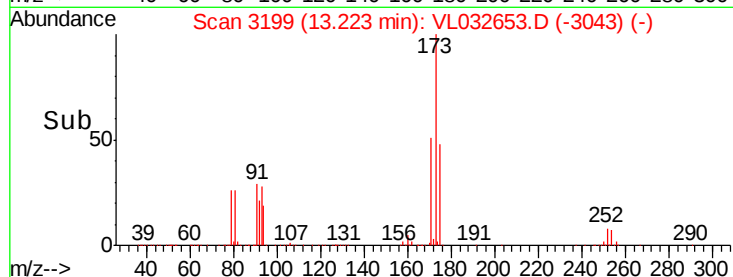
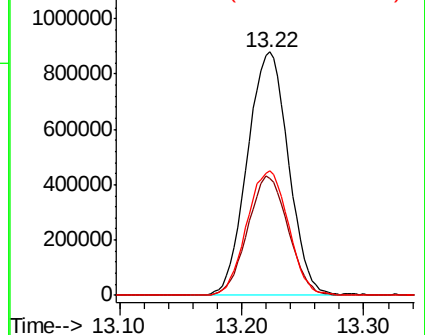
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.636 ppbv

RT: 8.89 min Scan# 1850

Delta R.T. -0.00 min

Lab File: VL032653.D

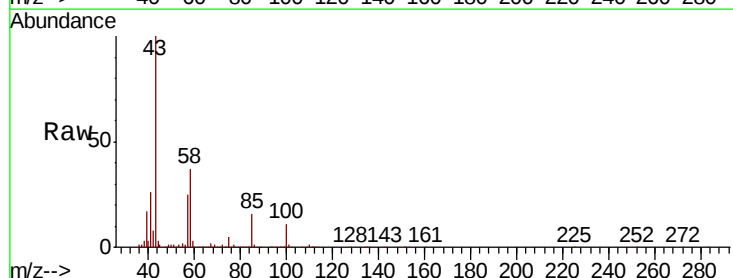
Acq: 18 Oct 2018 16:06

Tgt Ion: 43 Resp: 3271289

Ion Ratio Lower Upper

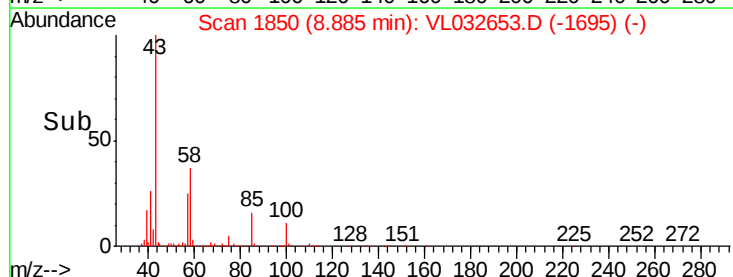
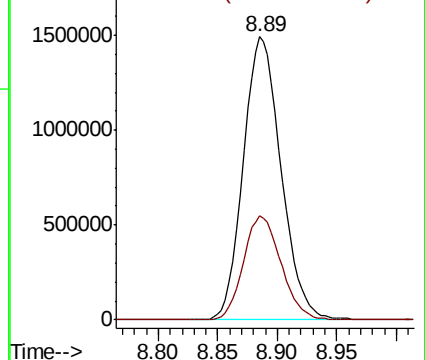
43 100

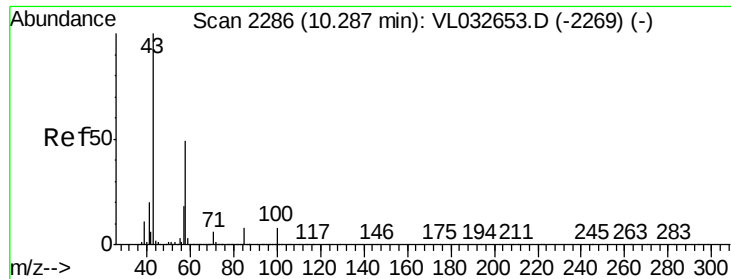
58 36.8 29.7 44.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





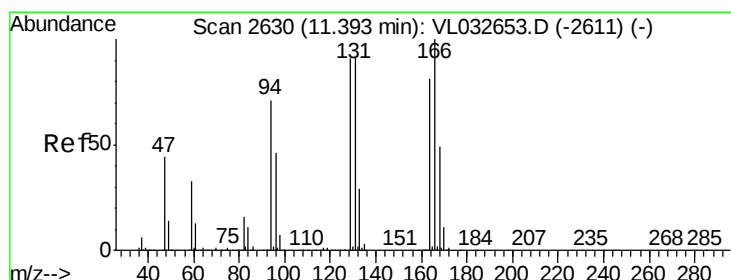
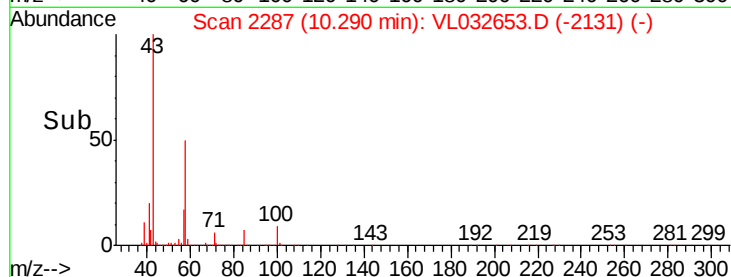
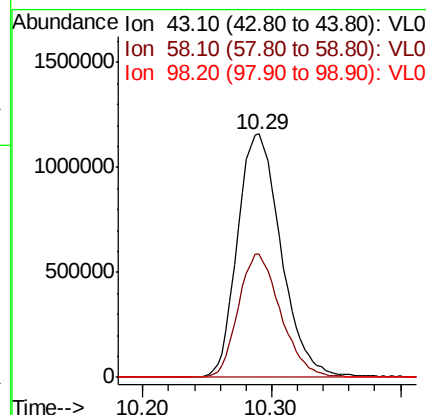
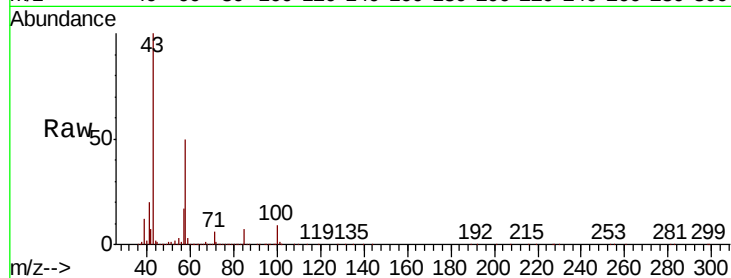
#51
2-Hexanone
Concen: 10.168 ppbv
RT: 10.29 min Scan# 2287
Delta R.T. 0.00 min
Lab File: VL032653.D
Acq: 18 Oct 2018 16:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.6	40.4	60.6
98	0.2	0.4	0.6

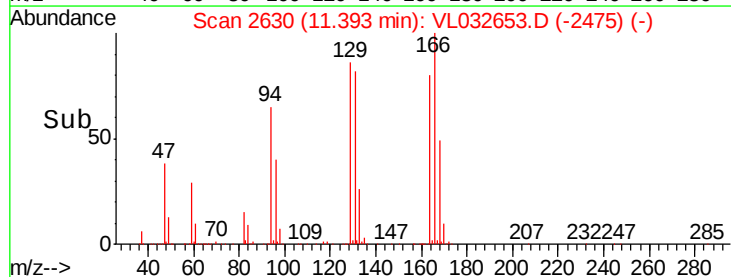
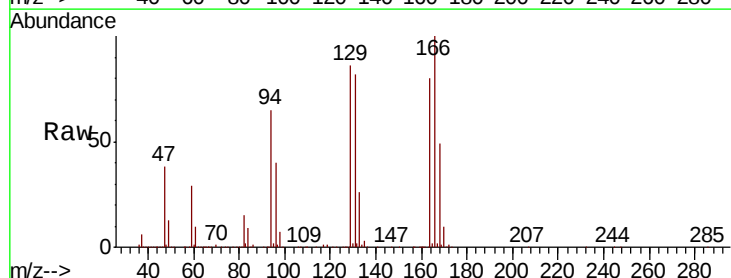
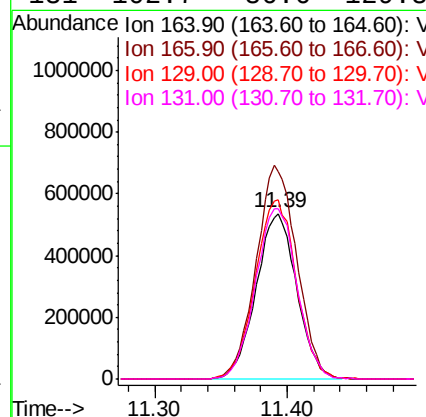
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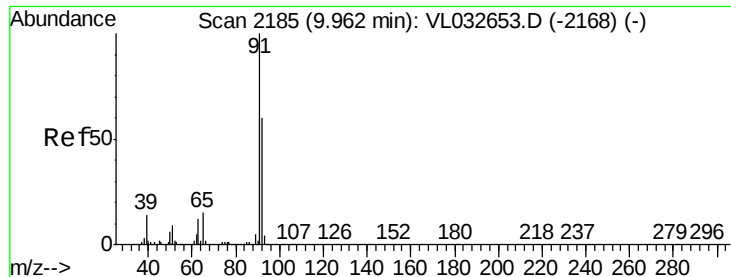
MMDadoda
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#52
Tetrachloroethene
Concen: 10.317 ppbv
RT: 11.39 min Scan# 2630
Delta R.T. -0.00 min
Lab File: VL032653.D
Acq: 18 Oct 2018 16:06

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.2	100.5	150.7
129	108.0	90.0	135.0
131	102.7	86.6	129.8





#53

Toluene

Concen: 10.724 ppbv

RT: 9.97 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 4118539

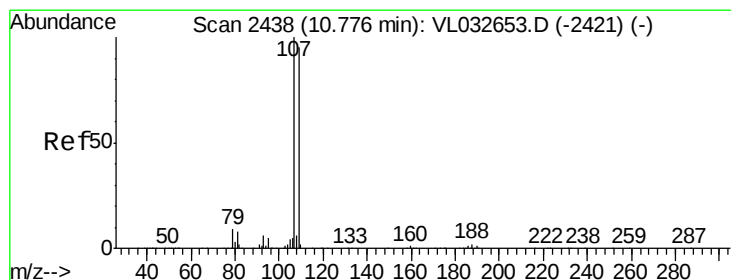
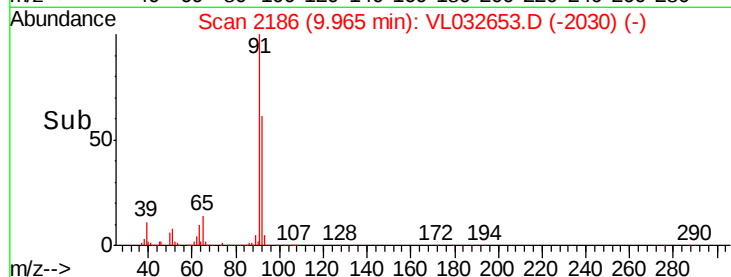
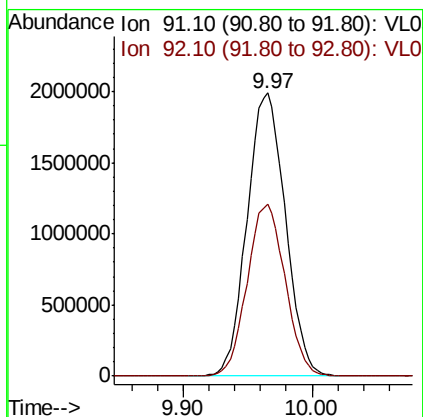
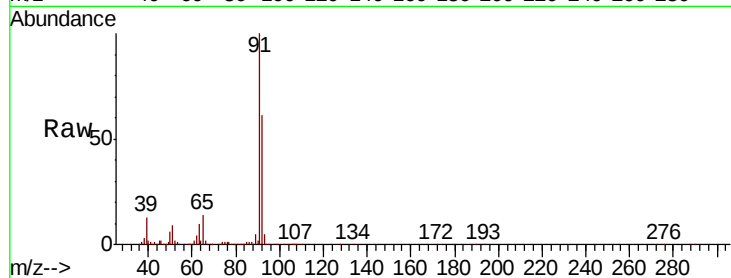
Ion Ratio Lower Upper

91 100

92 60.3 48.4 72.6

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10/24/2018 12:04:14 PM



#54

1,2-Dibromoethane

Concen: 9.734 ppbv

RT: 10.78 min Scan# 2439

Delta R.T. 0.00 min

Lab File: VL032653.D

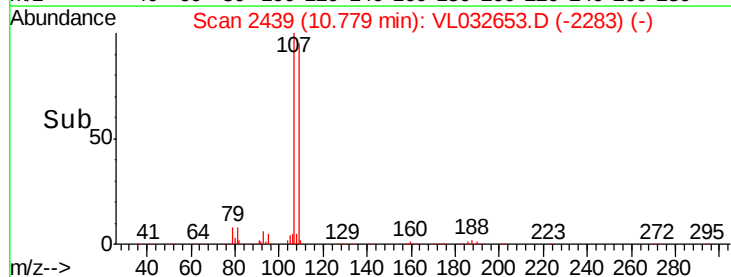
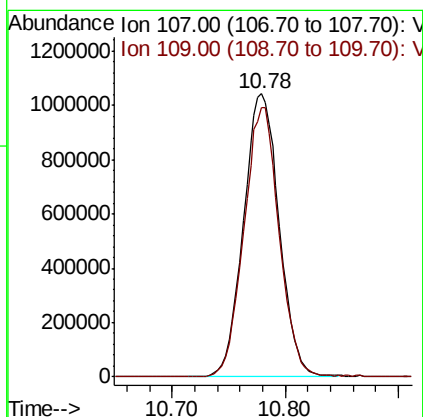
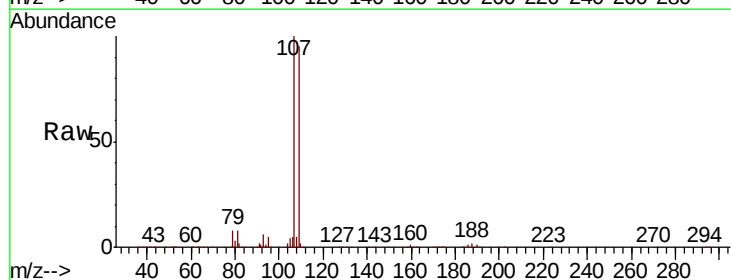
Acq: 18 Oct 2018 16:06

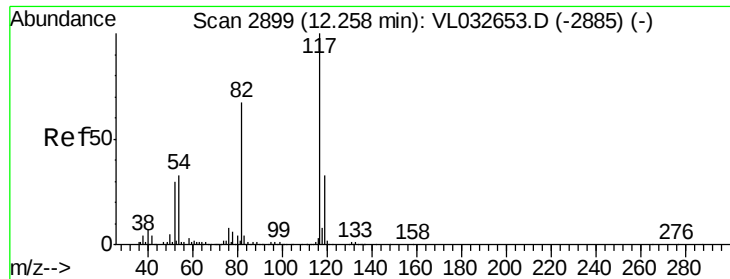
Tgt Ion: 107 Resp: 2282378

Ion Ratio Lower Upper

107 100

109 95.0 75.3 112.9





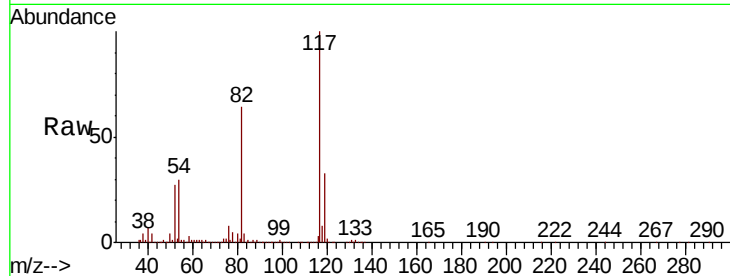
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.26 min Scan# 2899
Delta R.T. -0.00 min
Lab File: VL032653.D
Acq: 18 Oct 2018 16:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

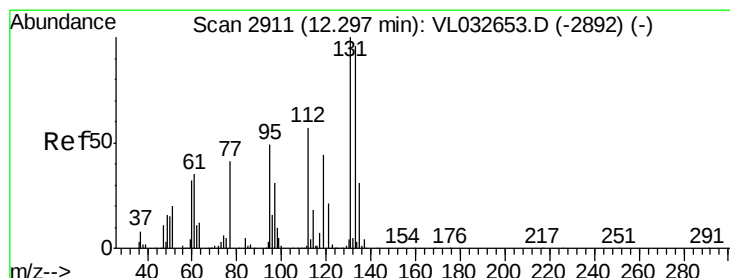
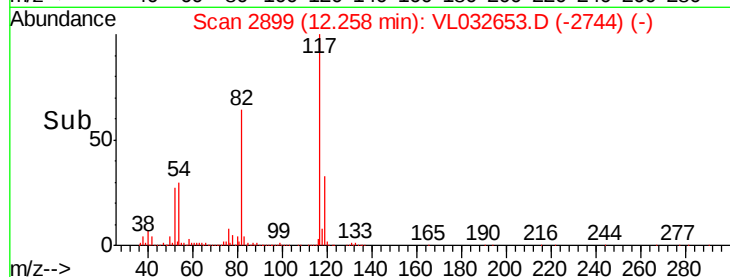
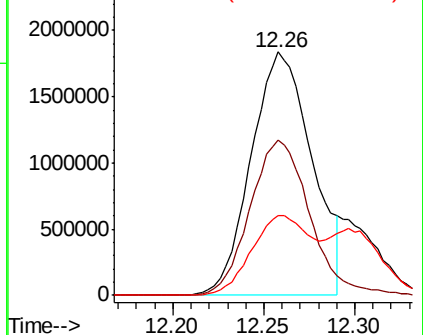
Tot Ion:117 Resp: 4271021
Ion Ratio Lower Upper
117 100
82 62.9 52.7 79.1
119 56.0 26.7 40.1#

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10/24/2018 12:04:14 PM

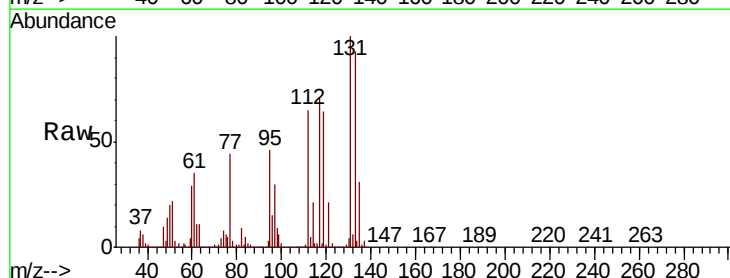


Abundance Ion 117.10 (116.80 to 117.80): V
2500000 Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

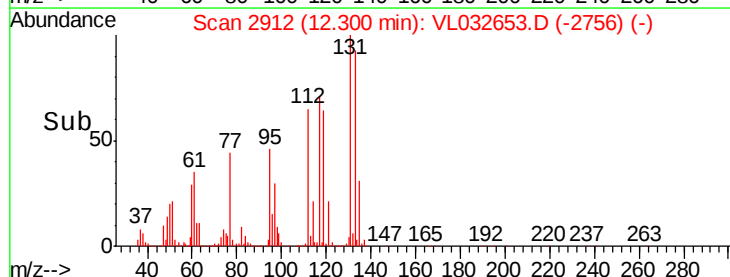
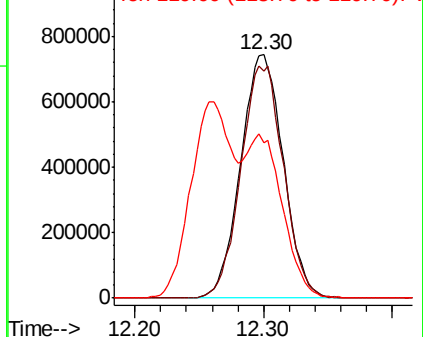


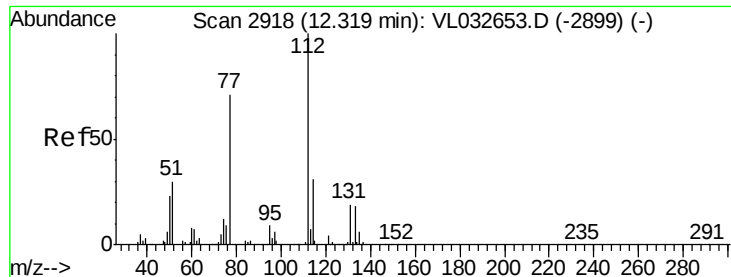
#56
1,1,1,2-Tetrachloroethane
Concen: 8.703 ppbv
RT: 12.30 min Scan# 2912
Delta R.T. 0.00 min
Lab File: VL032653.D
Acq: 18 Oct 2018 16:06

Tgt Ion:131 Resp: 1706807
Ion Ratio Lower Upper
131 100
133 96.1 75.4 113.2
119 60.2 49.1 73.7



Abundance Ion 131.00 (130.70 to 131.70): V
1000000 Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 8.875 ppbv

RT: 12.32 min Scan# 2918

Delta R.T. -0.00 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:112 Resp: 2882592

Ion Ratio Lower Upper

112 100

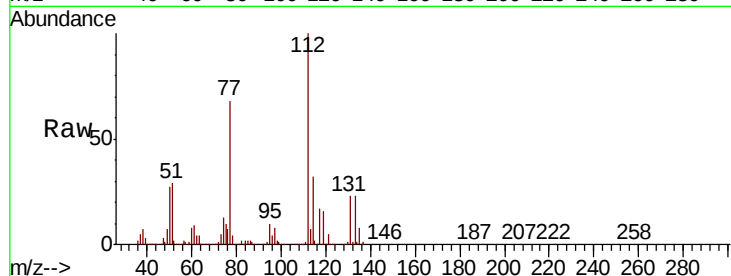
77 67.5 56.8 85.2

114 32.4 30.3 37.1

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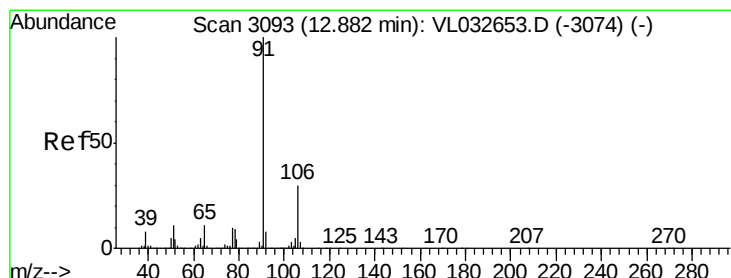
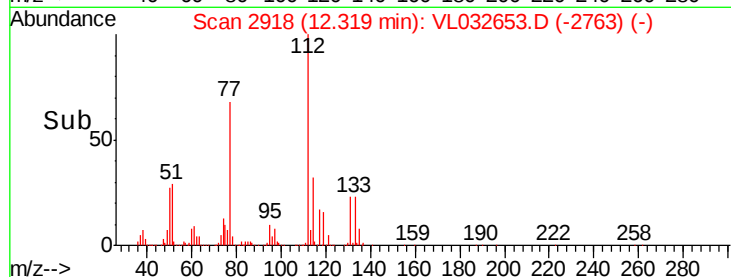
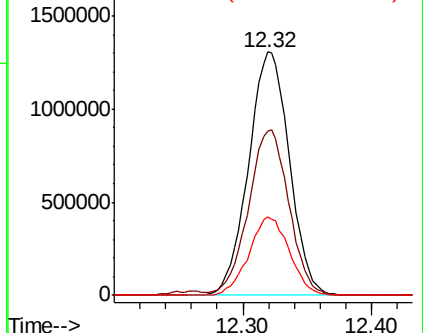
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.783 ppbv

RT: 12.88 min Scan# 3094

Delta R.T. 0.00 min

Lab File: VL032653.D

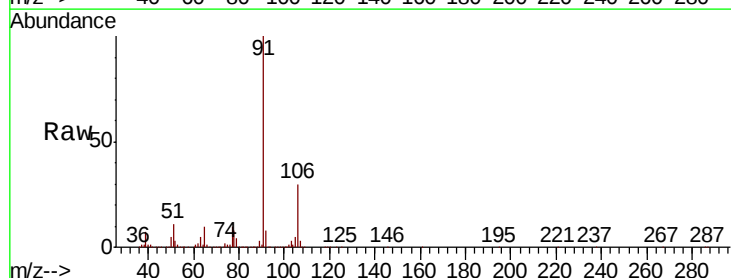
Acq: 18 Oct 2018 16:06

Tgt Ion: 91 Resp: 5171992

Ion Ratio Lower Upper

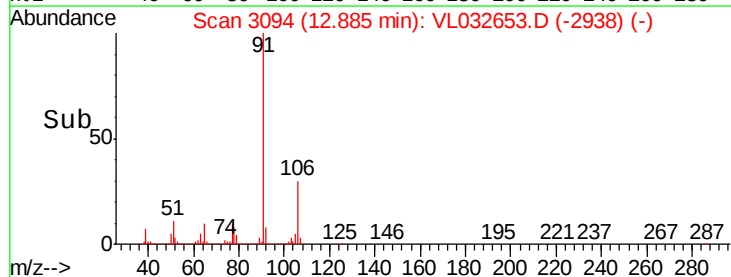
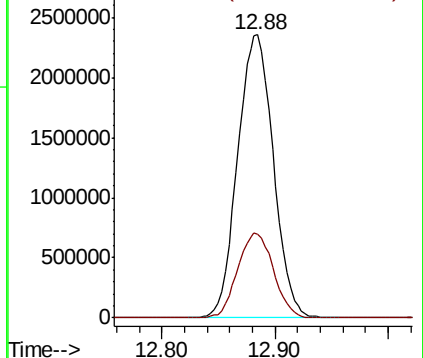
91 100

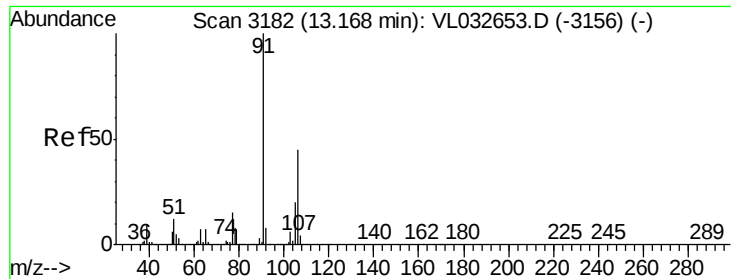
106 29.7 24.2 36.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 20.187 ppbv m

RT: 13.14 min Scan# 3174

Delta R.T. -0.03 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 8643353

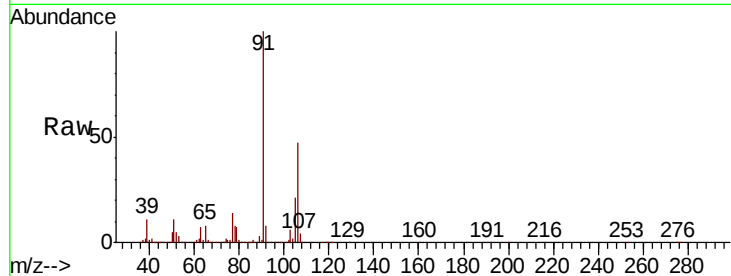
Ion Ratio Lower Upper

91 100

106 45.3 35.9 53.9

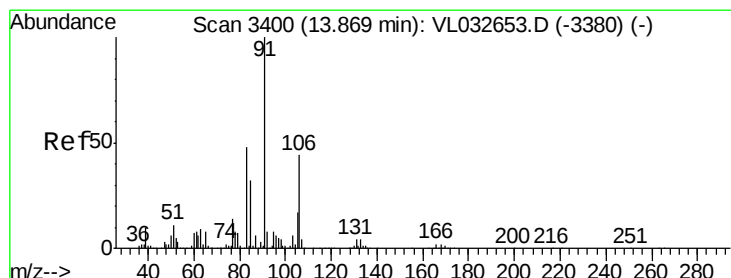
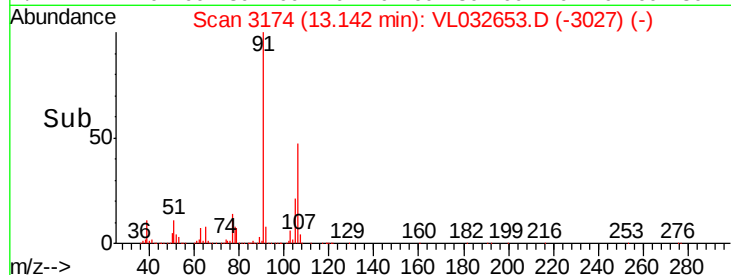
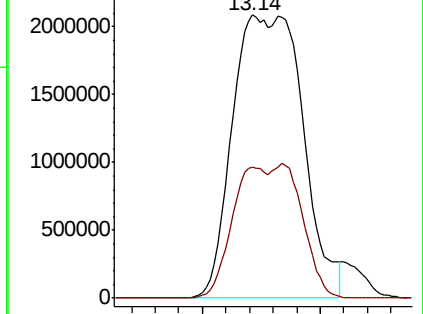
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 9.685 ppbv

RT: 13.87 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VL032653.D

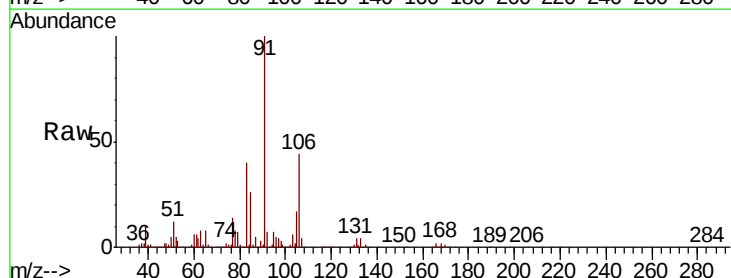
Acq: 18 Oct 2018 16:06

Tgt Ion: 91 Resp: 4132020

Ion Ratio Lower Upper

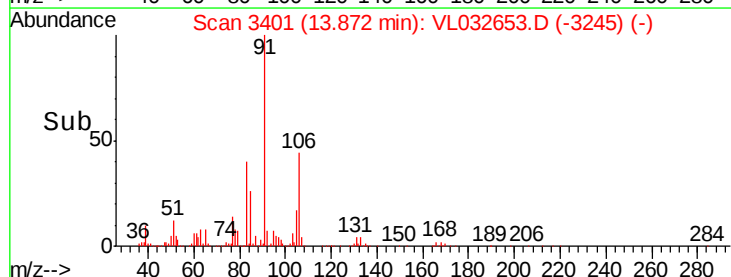
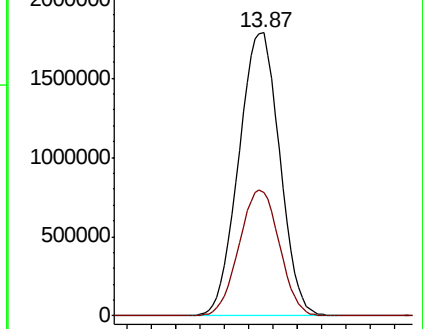
91 100

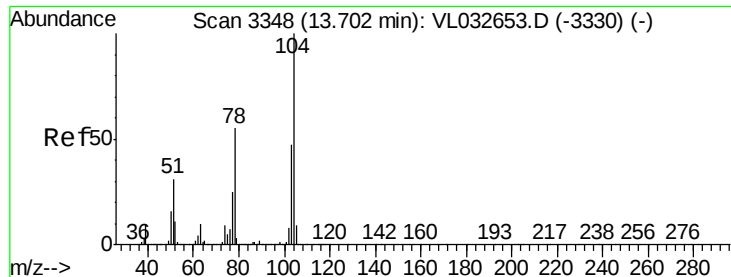
106 44.0 22.1 66.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 12.212 ppbv

RT: 13.70 min Scan# 3349

Delta R.T. 0.00 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:104 Resp: 3157828

Ion Ratio Lower Upper

104 100

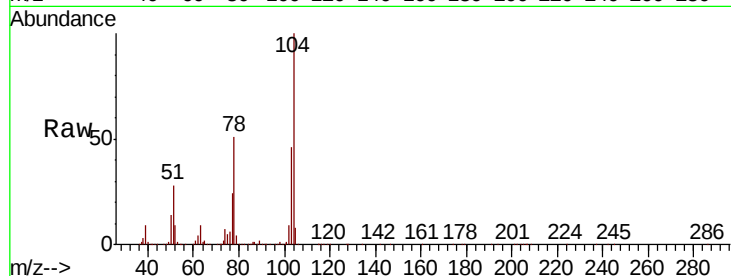
78 51.7 42.8 64.2

103 47.2 37.4 56.0

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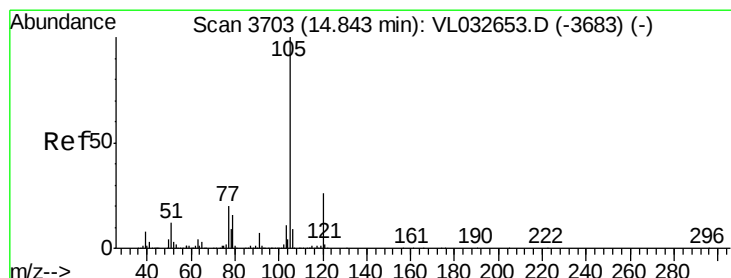
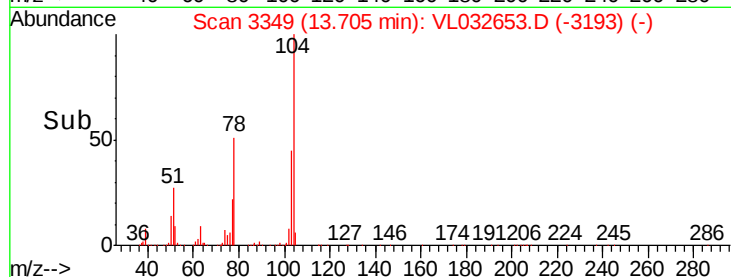
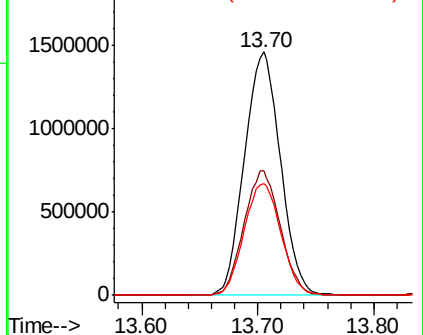
10/24/2018 12:04:14 PM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.497 ppbv

RT: 14.84 min Scan# 3703

Delta R.T. -0.00 min

Lab File: VL032653.D

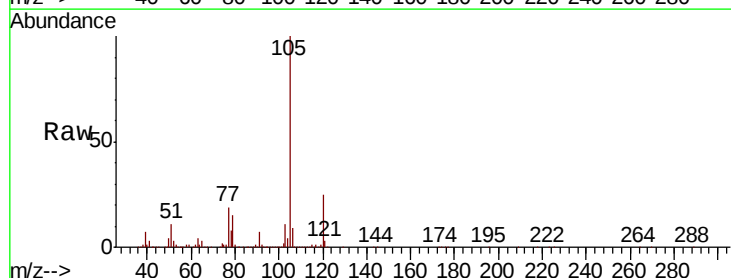
Acq: 18 Oct 2018 16:06

Tgt Ion:105 Resp: 5772473

Ion Ratio Lower Upper

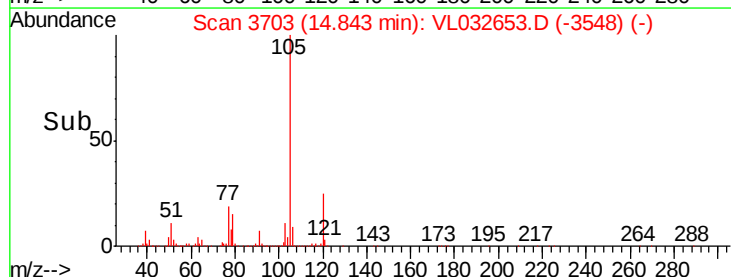
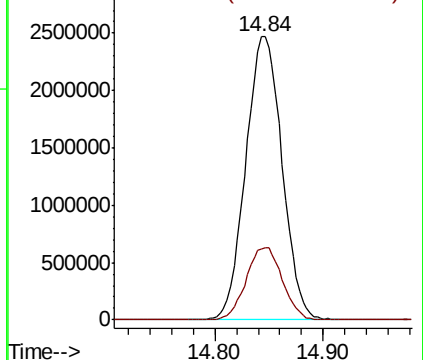
105 100

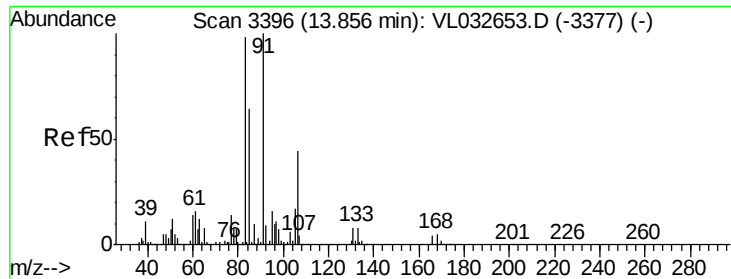
120 25.5 20.5 30.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





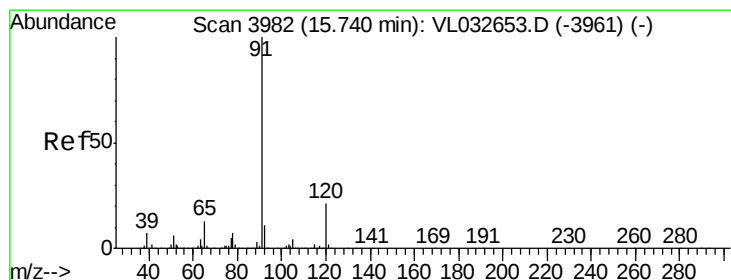
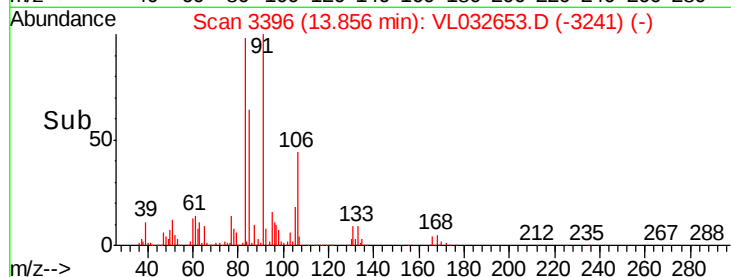
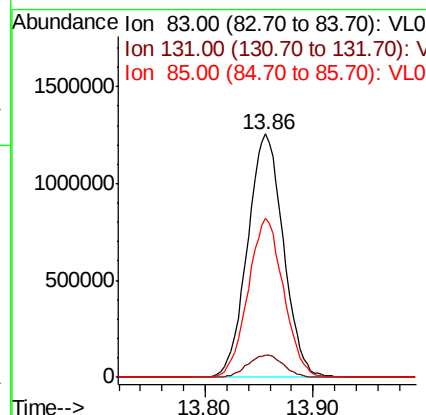
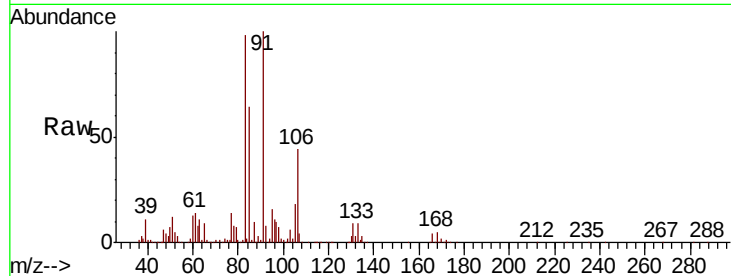
#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.701 ppbv
 RT: 13.86 min Scan# 3396
 Delta R.T. -0.00 min
 Lab File: VL032653.D
 Acq: 18 Oct 2018 16:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	83	Resp	2899756
Ion Ratio	100	Lower	Upper
83	100		
131	9.2	4.3	12.9
85	64.9	32.3	96.9

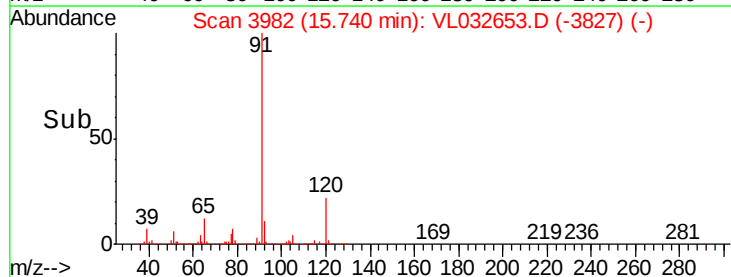
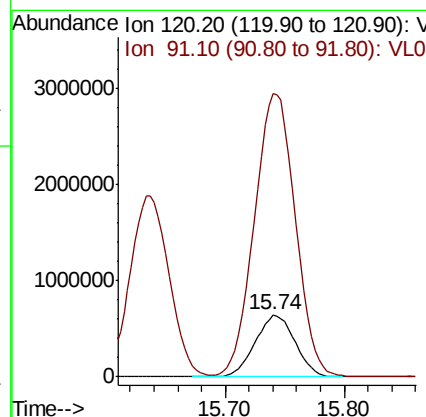
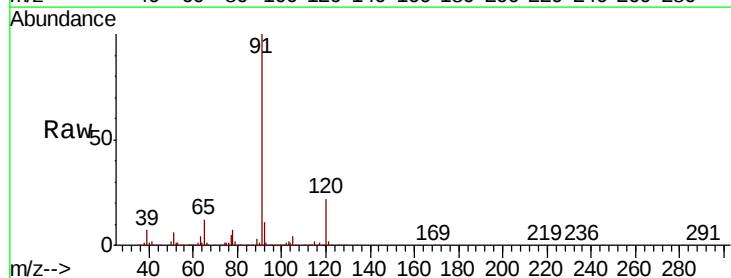
Manual Integrations
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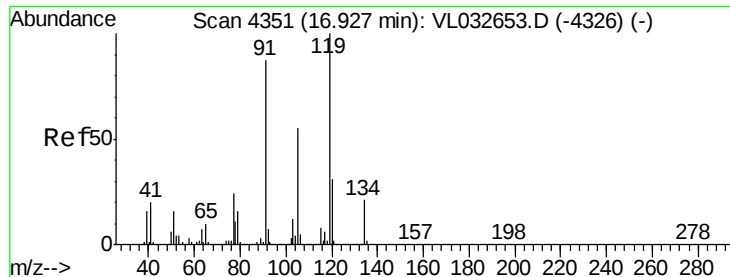
MMDadoda
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#64
 n-propylbenzene
 Concen: 9.651 ppbv
 RT: 15.74 min Scan# 3982
 Delta R.T. -0.00 min
 Lab File: VL032653.D
 Acq: 18 Oct 2018 16:06

Tgt Ion	120	Resp	1486493
Ion Ratio	100	Lower	Upper
120	100		
91	472.0	390.2	585.2





#65

tert-Butylbenzene

Concen: 9.648 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. 0.00 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:119 Resp: 4975883

Ion Ratio Lower Upper

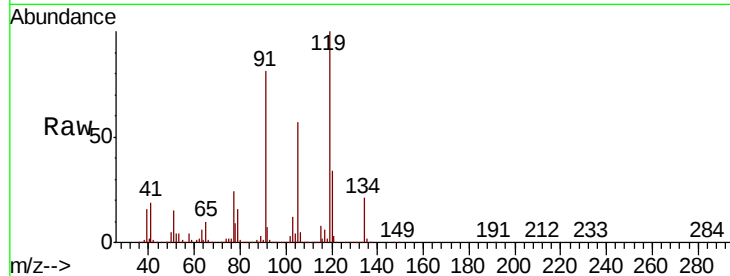
119 100

91 82.0 67.8 101.8

134 20.2 15.8 23.8

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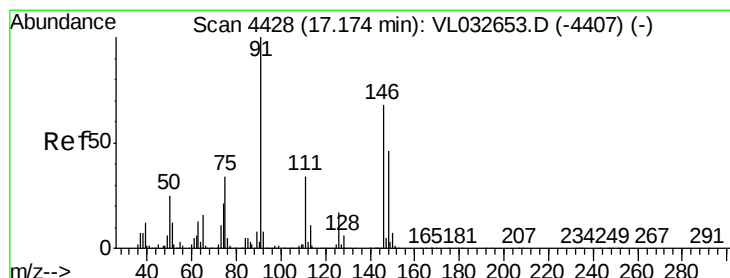
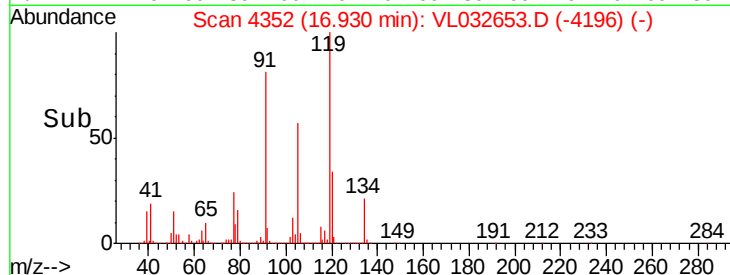
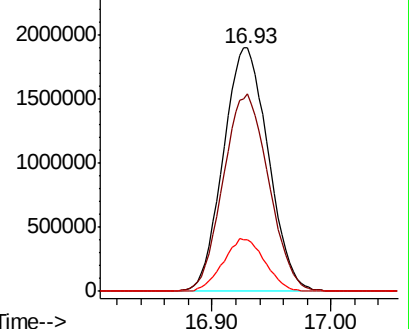
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 10.255 ppbv

RT: 17.17 min Scan# 4428

Delta R.T. -0.00 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

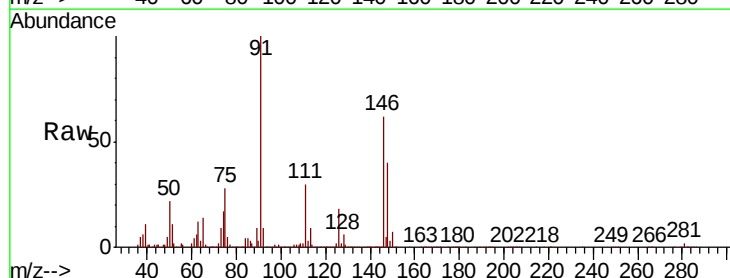
Tgt Ion: 91 Resp: 2981899

Ion Ratio Lower Upper

91 100

126 18.1 13.9 20.9

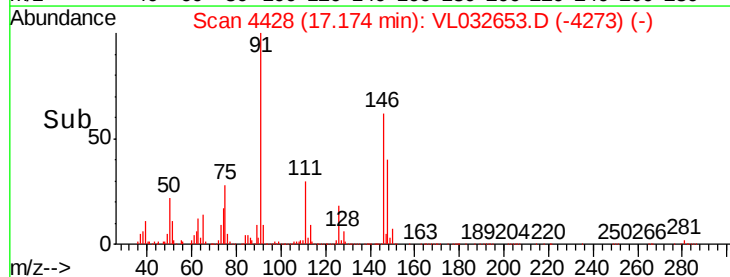
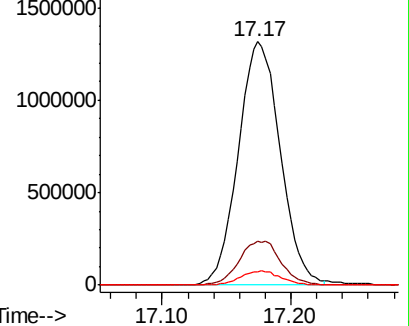
128 5.8 4.3 6.5

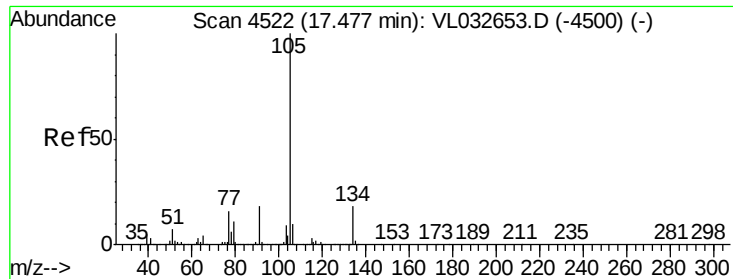


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.050 ppbv

RT: 17.48 min Scan# 4522

Delta R.T. -0.00 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 105 Resp: 7024692

Ion Ratio Lower Upper

105 100

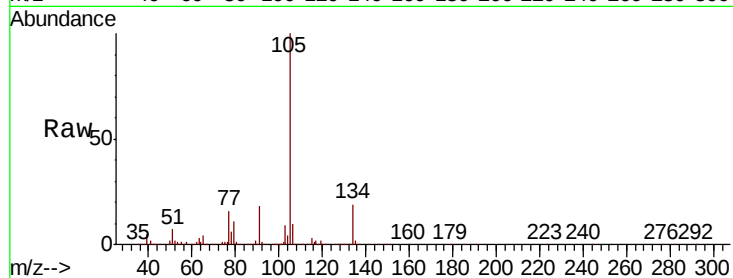
134 18.4 14.2 21.2

Manual Integrations

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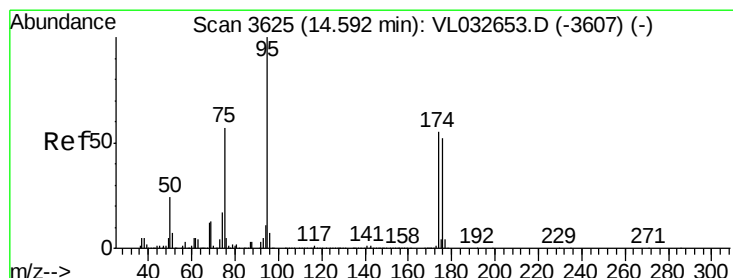
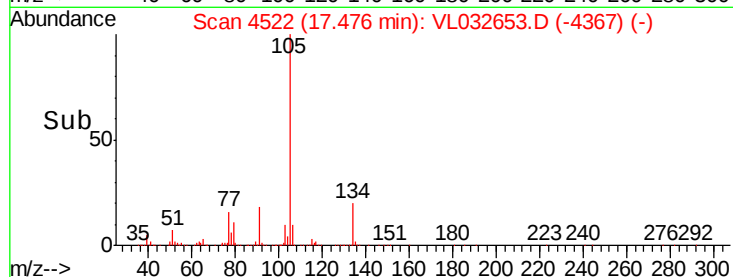
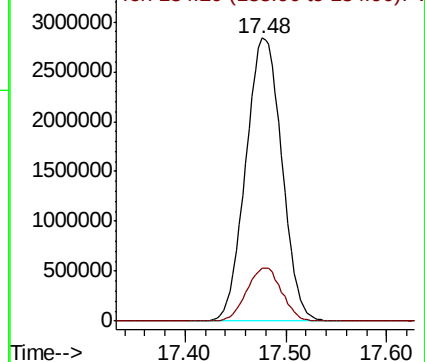
MMDadoda

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.952 ppbv

RT: 14.60 min Scan# 3626

Delta R.T. 0.00 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

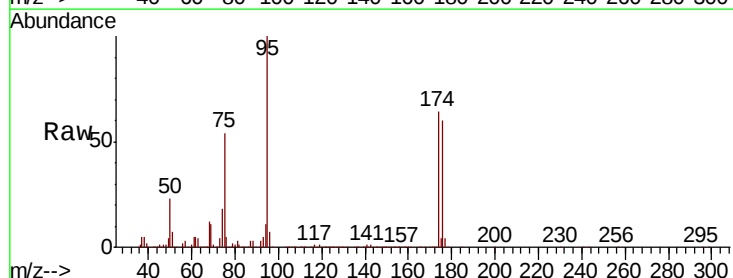
Tgt Ion: 95 Resp: 3200590

Ion Ratio Lower Upper

95 100

174 63.1 46.0 69.0

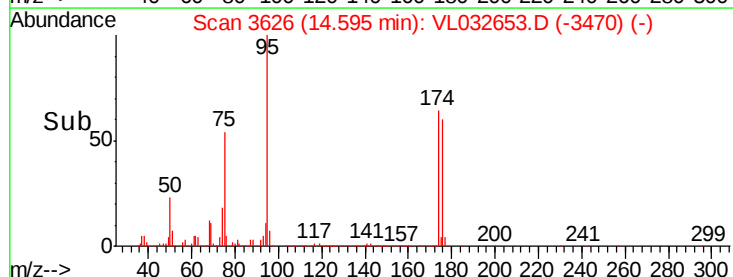
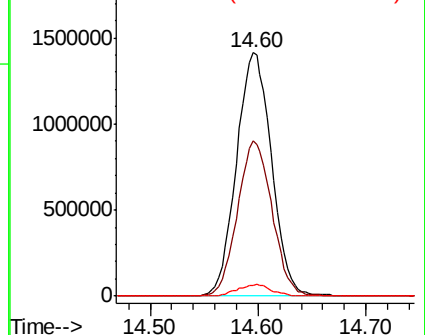
175 4.6 3.4 5.0

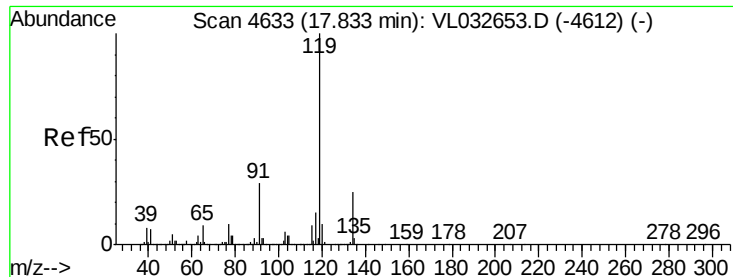


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





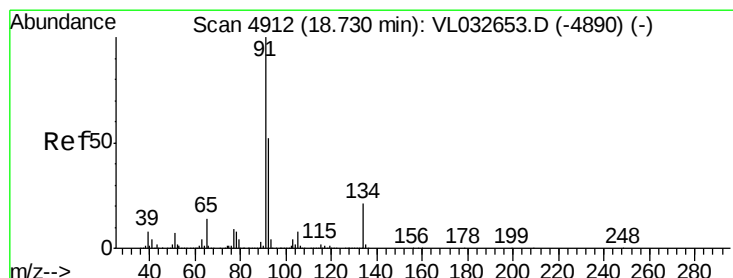
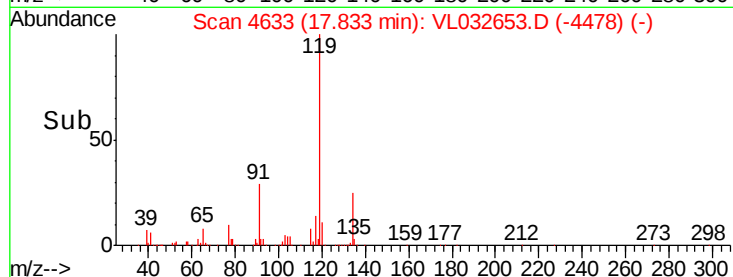
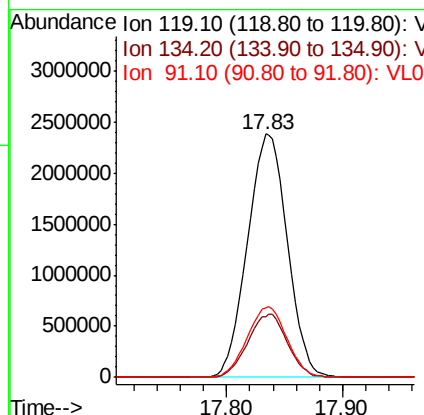
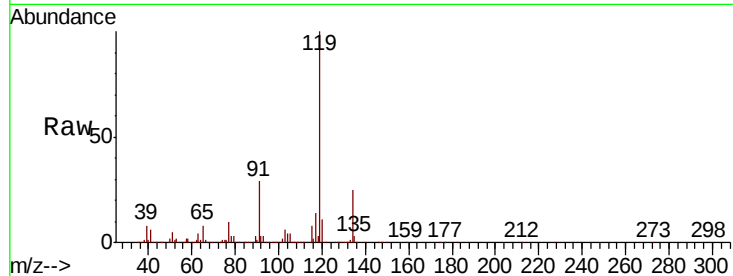
#69
 p-Isopropyltoluene
 Concen: 9.673 ppbv
 RT: 17.83 min Scan# 4633
 Delta R.T. -0.00 min
 Lab File: VL032653.D
 Acq: 18 Oct 2018 16:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 119 Resp: 5682723
 Ion Ratio Lower Upper
 119 100
 134 25.8 20.2 30.2
 91 29.0 24.0 36.0

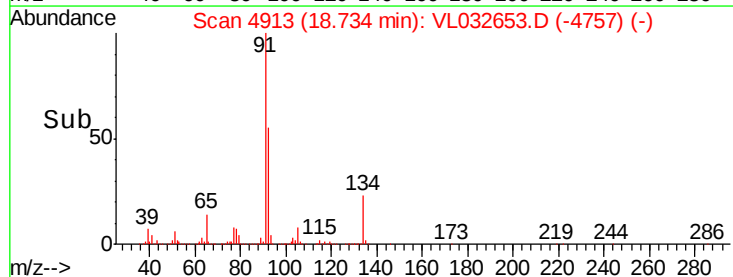
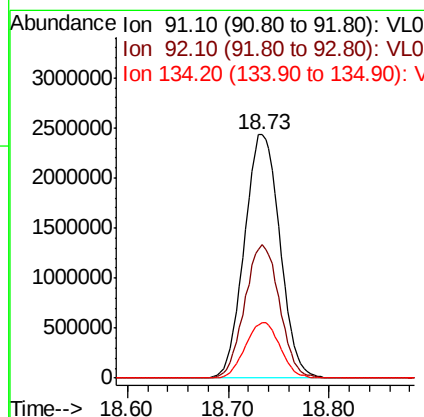
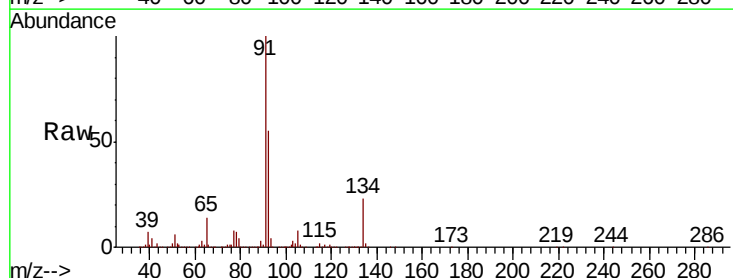
Manual Integrations
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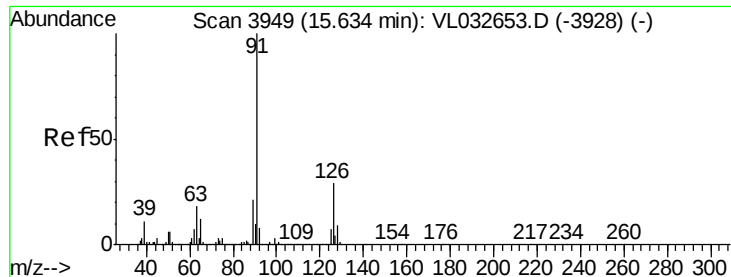
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#70
 n-Butylbenzene
 Concen: 9.154 ppbv
 RT: 18.73 min Scan# 4913
 Delta R.T. 0.00 min
 Lab File: VL032653.D
 Acq: 18 Oct 2018 16:06

Tgt Ion: 91 Resp: 5924920
 Ion Ratio Lower Upper
 91 100
 92 53.7 43.0 64.4
 134 22.3 17.0 25.6





#71

2-Chlorotoluene

Concen: 9.639 ppbv

RT: 15.63 min Scan# 3949

Delta R.T. -0.00 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 4331184

Ion Ratio Lower Upper

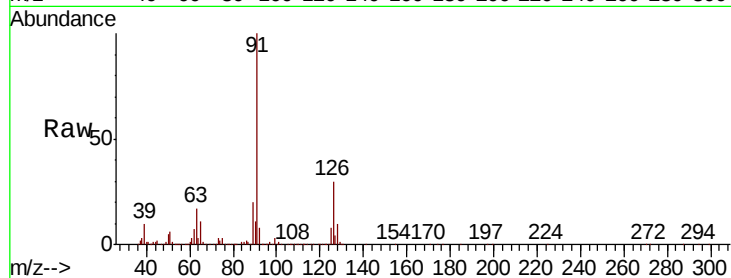
91 100

126 30.5 11.8 47.4

Manual Integrations
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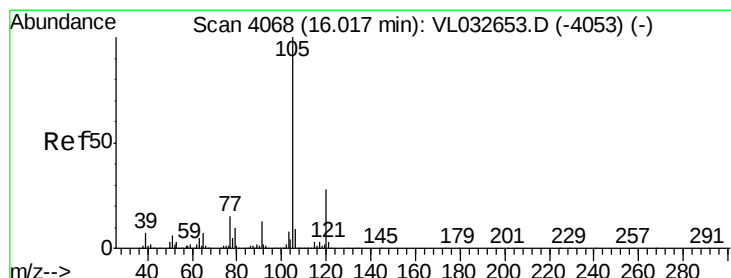
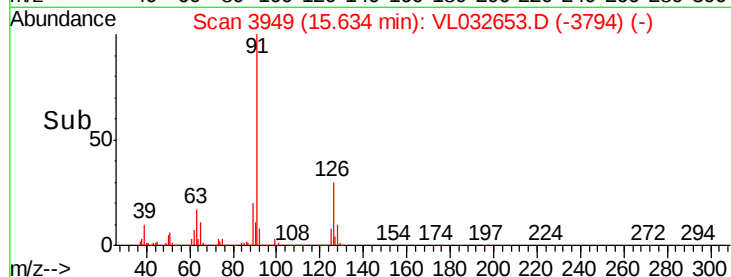
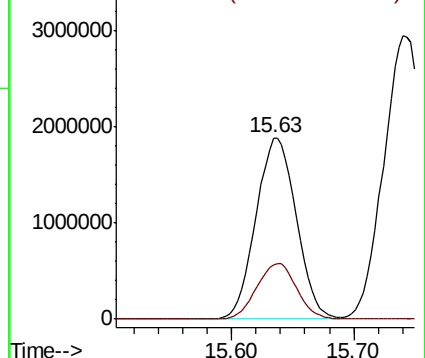
MMDadoda

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 10.112 ppbv

RT: 16.02 min Scan# 4069

Delta R.T. 0.00 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

Tgt Ion:105 Resp: 4663866

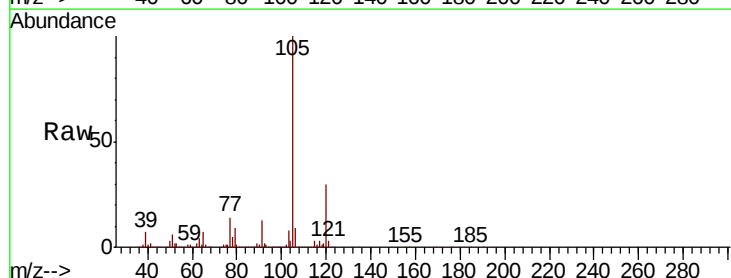
Ion Ratio Lower Upper

105 100

120 29.2 23.7 35.5

91 12.9 10.4 15.6

77 14.0 11.4 17.2

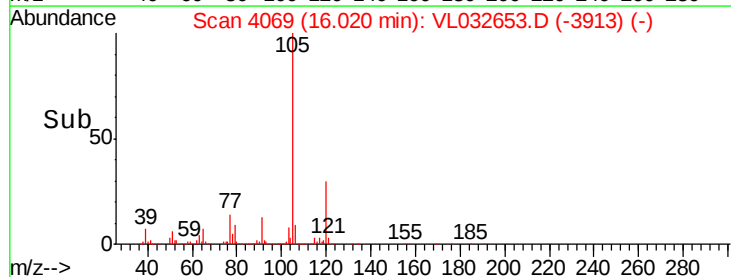
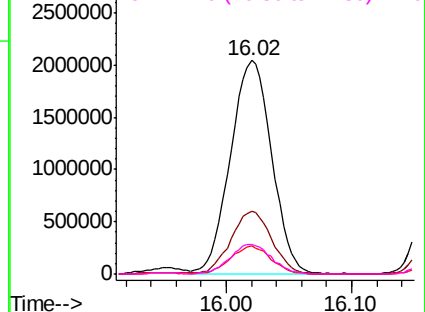


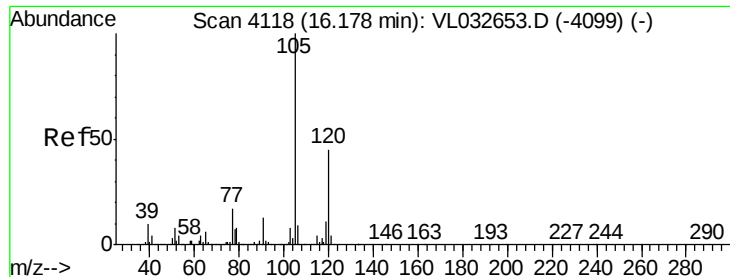
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 9.616 ppbv

RT: 16.17 min Scan# 4117

Delta R.T. -0.00 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:105 Resp: 4411481

Ion Ratio Lower Upper

105 100

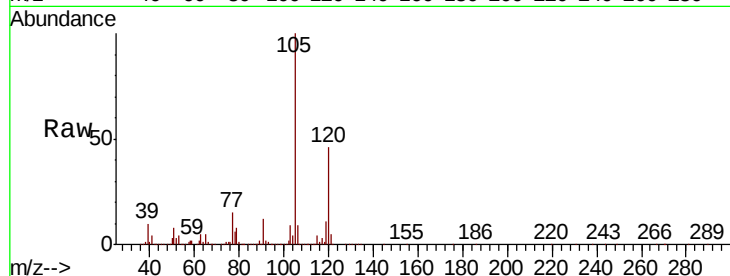
120 46.3 35.4 53.2

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

16.17

2000000

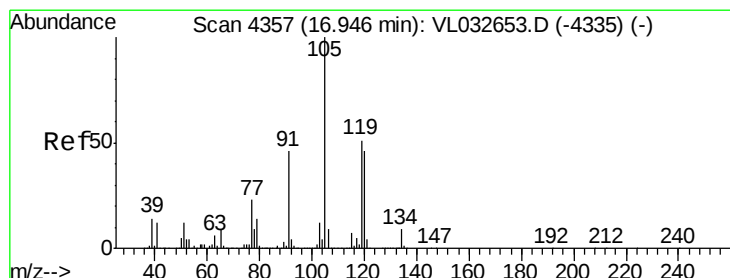
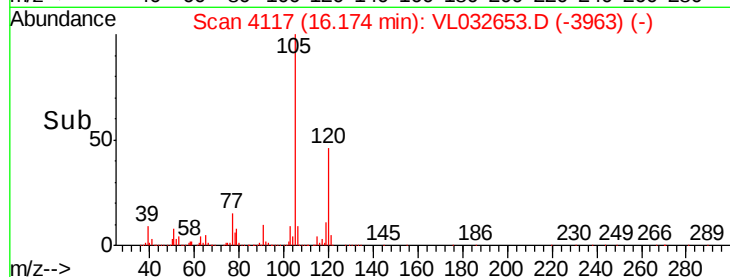
1500000

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 8.875 ppbv

RT: 16.95 min Scan# 4357

Delta R.T. -0.00 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

Tgt Ion:105 Resp: 4482356

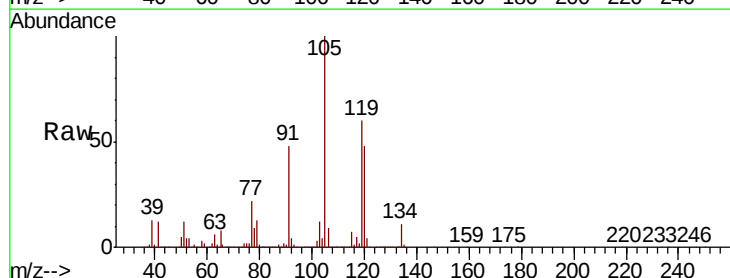
Ion Ratio Lower Upper

105 100

120 47.6 35.8 53.8

91 48.2 33.2 49.8

77 21.3 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

3000000

2500000

2000000

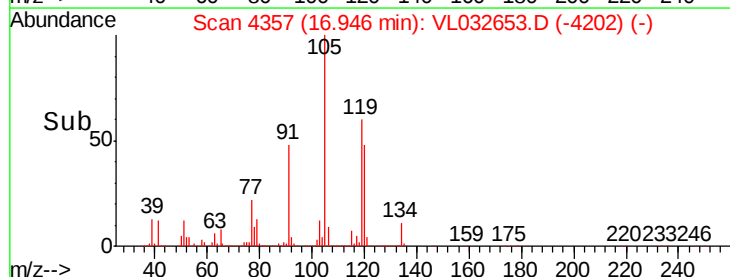
1500000

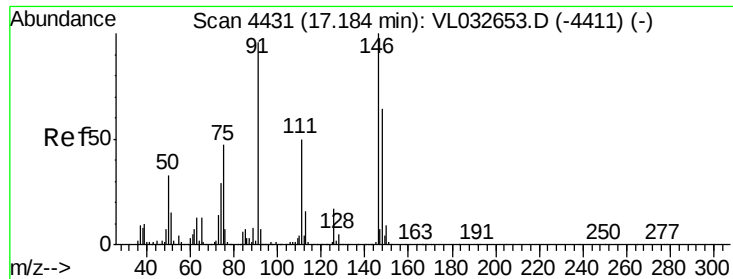
1000000

500000

0

Time-->





#75

1,3-Dichlorobenzene

Concen: 8.598 ppbv

RT: 17.18 min Scan# 4431

Delta R.T. -0.00 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:146 Resp: 2523701

Ion Ratio Lower Upper

146 100

111 46.5 24.4 73.2

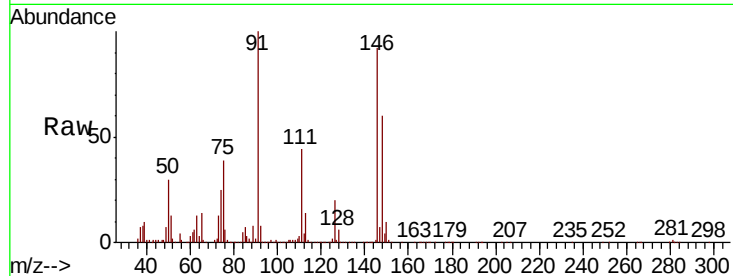
148 63.9 31.9 95.9

Manual Integrations

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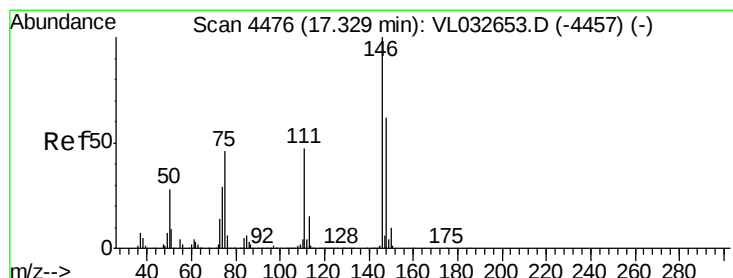
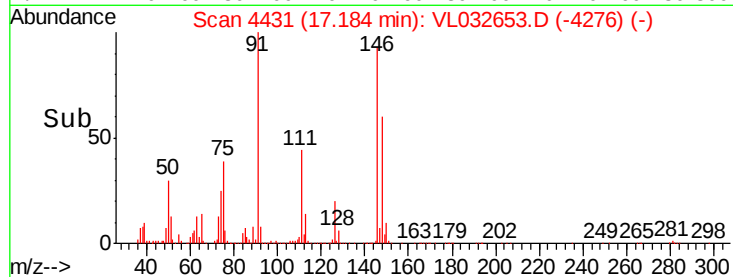
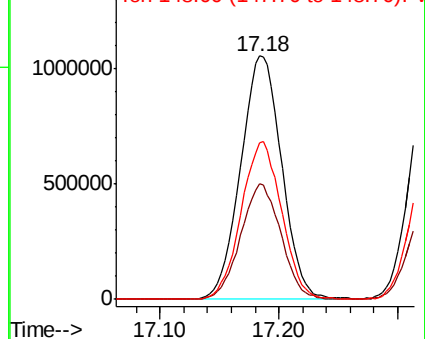
10/24/2018 12:04:14 PM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 9.242 ppbv

RT: 17.33 min Scan# 4476

Delta R.T. -0.00 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

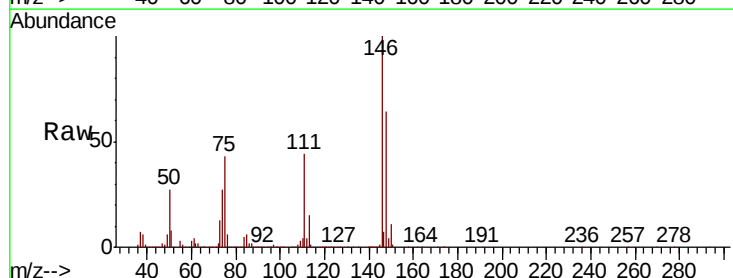
Tgt Ion:146 Resp: 2471945

Ion Ratio Lower Upper

146 100

111 44.9 23.7 71.1

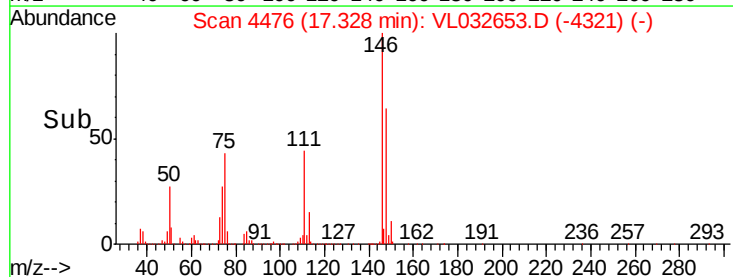
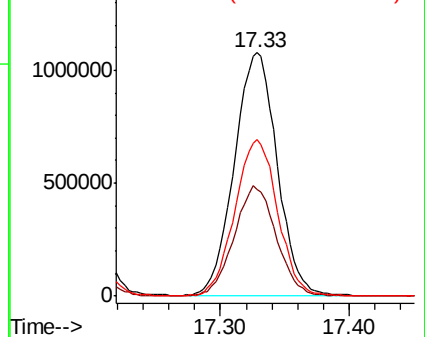
148 65.1 32.1 96.3

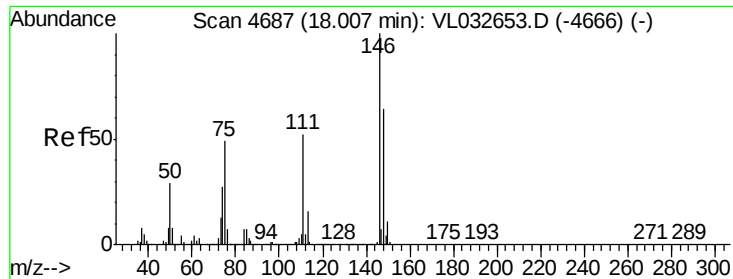


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 8.531 ppbv

RT: 18.01 min Scan# 4688

Delta R.T. 0.00 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:146 Resp: 2407255

Ion Ratio Lower Upper

146 100

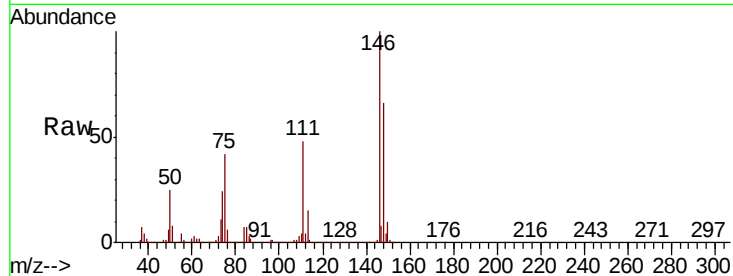
111 47.8 25.3 75.8

148 64.5 31.9 95.9

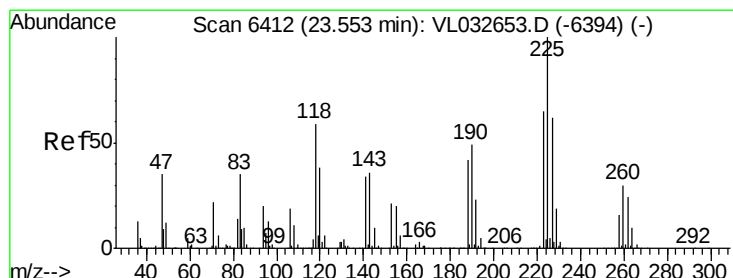
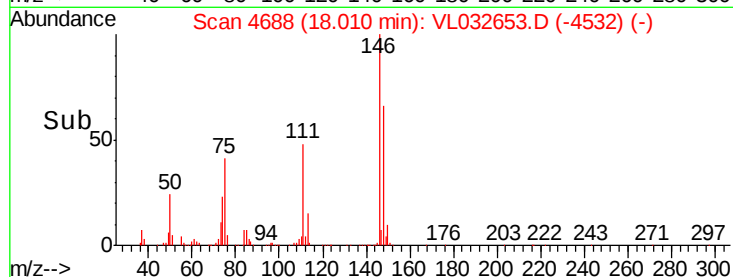
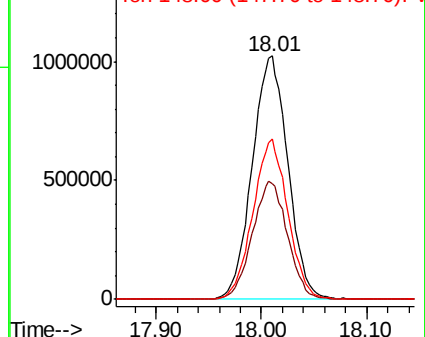
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 6.053 ppbv

RT: 23.56 min Scan# 6414

Delta R.T. 0.01 min

Lab File: VL032653.D

Acq: 18 Oct 2018 16:06

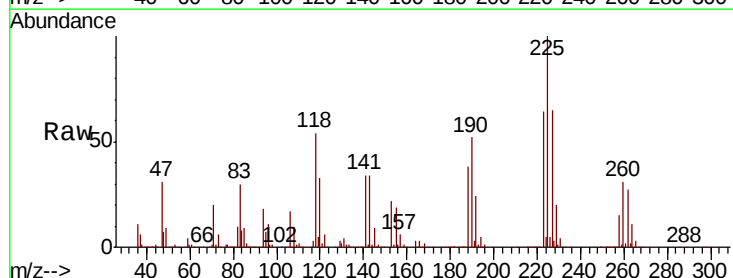
Tgt Ion:225 Resp: 955871

Ion Ratio Lower Upper

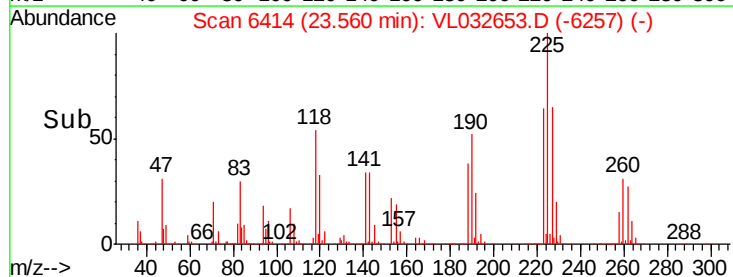
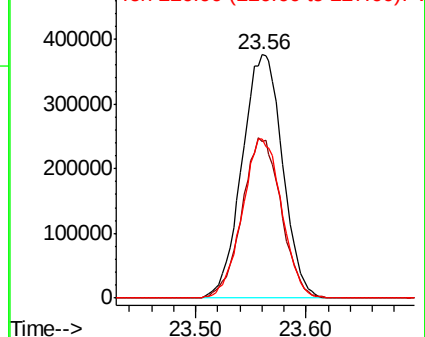
225 100

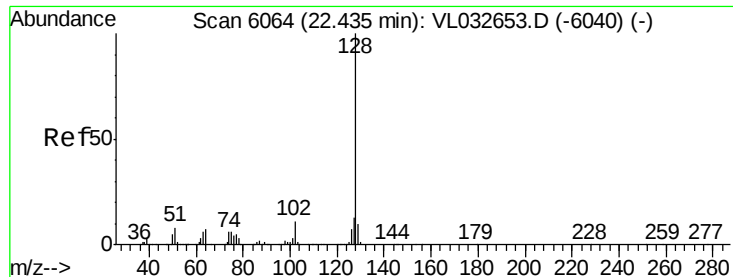
223 63.6 50.7 76.1

227 63.8 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





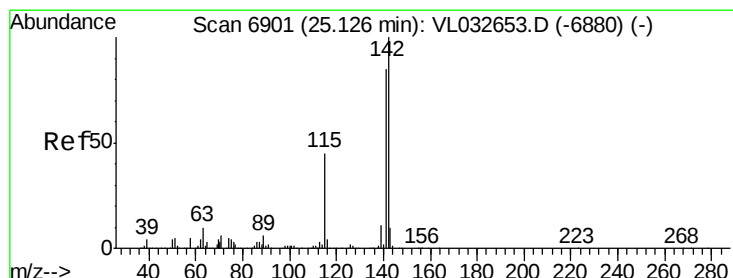
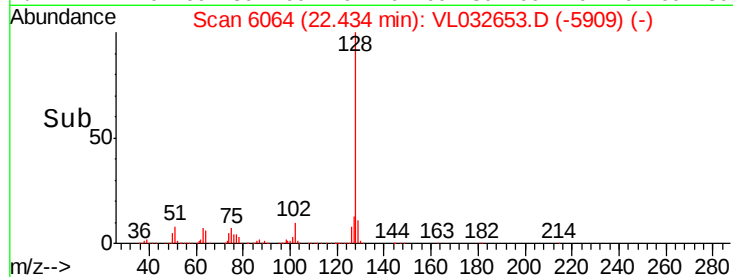
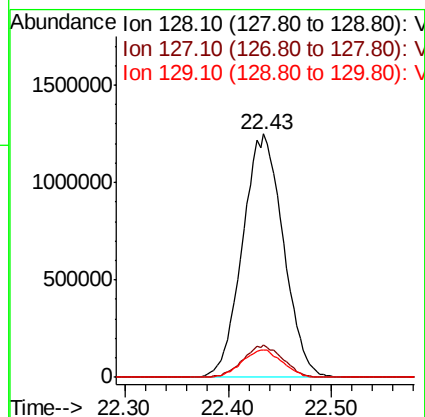
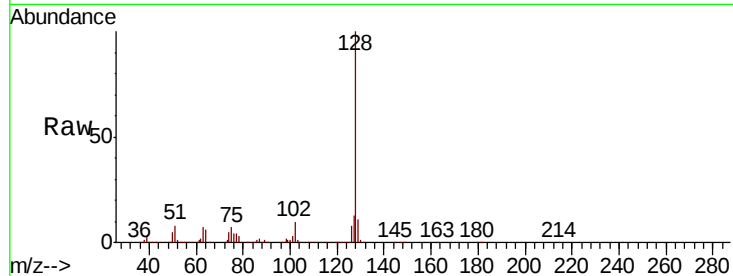
#79
Naphthalene
Concen: 9.987 ppbv
RT: 22.43 min Scan# 6064
Delta R.T. -0.00 min
Lab File: VL032653.D
Acq: 18 Oct 2018 16:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	11.2	8.6	13.0

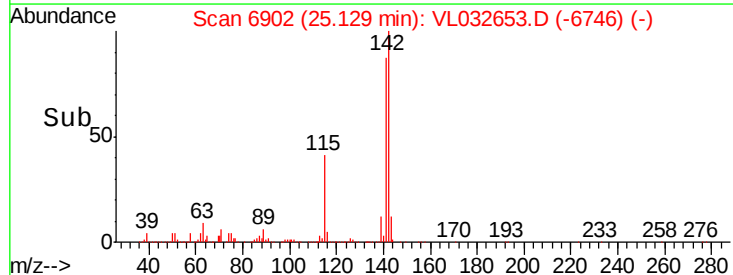
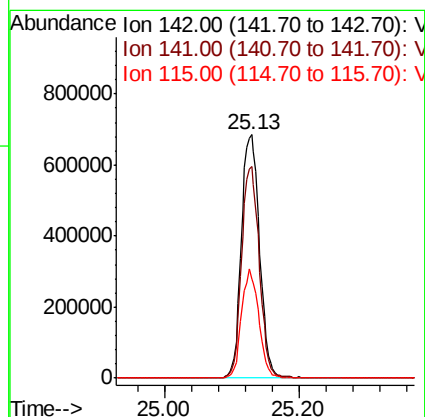
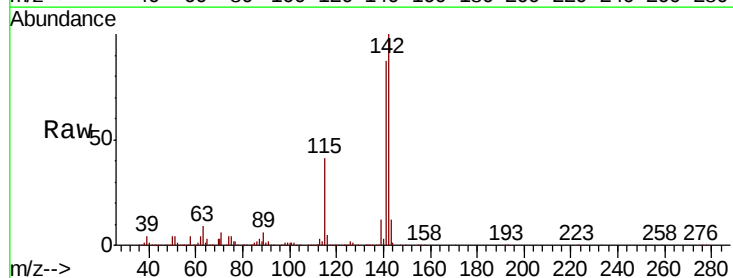
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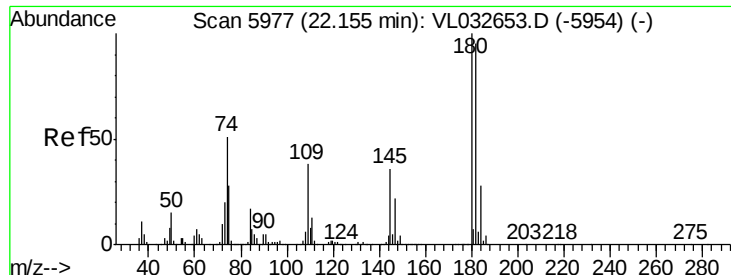
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#80
Naphthalene, 2-methyl-
Concen: 19.189 ppbv
RT: 25.13 min Scan# 6902
Delta R.T. 0.00 min
Lab File: VL032653.D
Acq: 18 Oct 2018 16:06

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.4	67.5	101.3
115	42.1	33.5	50.3





#81
 1,2,4-Trichlorobenzene
 Concen: 10.171 ppbv
 RT: 22.16 min Scan# 5979
 Delta R.T. 0.01 min
 Lab File: VL032653.D
 Acq: 18 Oct 2018 16:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.5	114.7
184	30.1	24.7	37.1

Manual Integrations
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