

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050119\
 Data File : VL033620.D
 Acq On : 1 May 2019 15:51
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 5/2/2019 4:04:17 PM

Quant Time: May 02 05:32:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 02 2019
 QLast Update : Thu May 02 04:03:11 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1150630	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2836533	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3143626	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2426157	10.06	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1993431	11.496	ppbv	99
3) Chlorodifluoromethane	3.01	51	1707140	11.590	ppbv	99
4) Chloromethane	3.17	50	962080	12.839	ppbv	100
5) Vinyl Chloride	3.29	62	953697	12.131	ppbv	99
6) Bromomethane	3.51	94	602575	13.024	ppbv	97
7) Chloroethane	3.60	64	350107	13.359	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	2350371	12.459	ppbv	100
9) Propene	3.03	41	759075	19.270	ppbv	85
10) Heptane	8.24	43	2206440	15.147	ppbv	99
11) Trichlorofluoromethane	4.00	101	2727291	13.232	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	2018712	14.281	ppbv	99
13) Ethanol	3.64	45	169050	9.465	ppbv	99
14) Bromoethene	3.78	108	793452	13.675	ppbv	99
15) Acetone	3.90	43	1742729	12.441	ppbv	100
16) 1,3-Butadiene	3.36	39	866943	13.751	ppbv	100
17) tert-Butyl alcohol	4.35	59	1517034	12.543	ppbv	100
18) 1,1-Dichloroethene	4.35	96	817771	13.312	ppbv	100
19) Isopropyl Alcohol	4.02	45	1162894	12.095	ppbv	100
20) Methylene Chloride	4.41	84	748400	13.708	ppbv	96
21) Allyl Chloride	4.47	41	1313804	14.909	ppbv	98
22) trans-1,2-Dichloroethene	4.96	96	915599	15.219	ppbv	96
23) Vinyl Acetate	5.15	43	3075993	14.766	ppbv	99
24) 1,1-Dichloroethane	5.09	63	2103539	13.564	ppbv	99
25) Ethyl Acetate	5.77	43	3678448	13.836	ppbv	100
26) Hexane	5.78	57	1623468	14.501	ppbv	98
27) Carbon Disulfide	4.62	76	2243036	16.544	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	2673528	14.162	ppbv	99
29) Chloroform	5.85	83	2842966	13.856	ppbv	98
30) Cyclohexane	7.24	84	1474282	15.190	ppbv	98
31) cis-1,2-Dichloroethene	5.64	61	1710848	15.137	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	2909513	13.537	ppbv	99
34) 2-Butanone	5.32	43	2446862	14.052	ppbv	100
35) Carbon Tetrachloride	7.13	117	3158771	14.057	ppbv	99
36) Benzene	7.00	78	3494971	14.461	ppbv	98
37) 1,2-Dichloroethane	6.41	62	2186285	13.614	ppbv	100
38) Trichloroethene	7.96	130	1404948	14.511	ppbv	98
39) 1,2-Dichloropropane	7.73	63	1321613	14.501	ppbv	98
40) 1,4-Dioxane	7.95	88	496693	13.418	ppbv	# 1
41) Tetrahydrofuran	6.14	42	1422019	15.291	ppbv	100
42) Bromodichloromethane	7.91	83	3119268	14.352	ppbv	99
43) Methyl Methacrylate	8.13	69	1423000	15.548	ppbv	99

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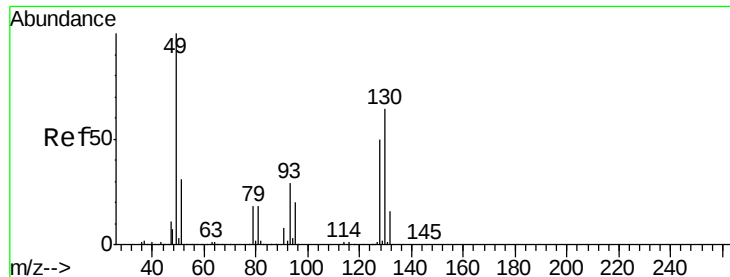
Manual Integrations
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Quant Time: May 02 05:32:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 02 05:32:48 2019
 QLast Update : Thu May 02 04:03:11 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	5831290	13.845	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	2138730	17.599	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	2402187	17.522	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	1607422	13.523	ppbv	99
48) Dibromochloromethane	10.45	129	2973446	14.783	ppbv	99
49) Bromoform	13.20	173	2518591	16.339	ppbv	100
50) 4-Methyl-2-Pentanone	8.86	43	4160007	15.246	ppbv	99
51) 2-Hexanone	10.26	43	3495516	14.591	ppbv	99
52) Tetrachloroethene	11.37	164	1373689	14.782	ppbv	100
53) Toluene	9.95	91	4495119	14.738	ppbv	100
54) 1,2-Dibromoethane	10.76	107	2420081	14.809	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	1856230	13.522	ppbv #	69
57) Chlorobenzene	12.30	112	3242780	13.263	ppbv	98
58) Ethyl Benzene	12.86	91	5884351	16.084	ppbv	98
59) m/p-Xylene	13.15	91	9642683m	30.491	ppbv	
60) o-Xylene	13.85	91	4860409	15.292	ppbv	99
61) Styrene	13.68	104	3724157	17.123	ppbv	99
62) Isopropylbenzene	14.82	105	6545887	15.409	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	3366161	13.523	ppbv	100
64) n-propylbenzene	15.72	120	1720820	15.617	ppbv	97
65) tert-Butylbenzene	16.90	119	5981316	15.057	ppbv	99
66) Benzyl Chloride	17.15	91	3435435	19.034	ppbv	100
67) sec-Butylbenzene	17.46	105	8341419	14.952	ppbv	99
69) p-Isopropyltoluene	17.81	119	7113312	15.322	ppbv	99
70) n-Butylbenzene	18.71	91	7514856	14.881	ppbv	99
71) 2-Chlorotoluene	15.61	91	5024443	15.811	ppbv	100
72) 4-Ethyltoluene	16.00	105	5841173	16.127	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	5536168	15.548	ppbv	100
74) 1,2,4-Trimethylbenzene	16.92	105	5789968	14.593	ppbv	95
75) 1,3-Dichlorobenzene	17.16	146	3453146	13.982	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	3474875	14.746	ppbv	100
77) 1,2-Dichlorobenzene	17.98	146	3365388	14.619	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	2824273	16.098	ppbv	99
79) Naphthalene	22.41	128	6273179	17.109	ppbv	100
80) Naphthalene, 2-methyl-	25.11	142	3173558	19.948	ppbv	100
81) 1,2,4-Trichlorobenzene	22.13	180	3368909	15.860	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. 0.01 min

Lab File: VL033620.D

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 1150630

Ion Ratio Lower Upper

49 100

128 50.1 25.0 75.0

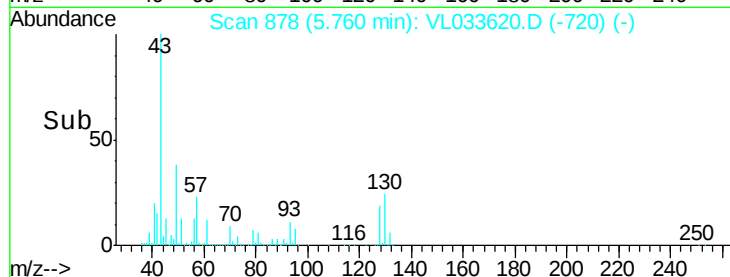
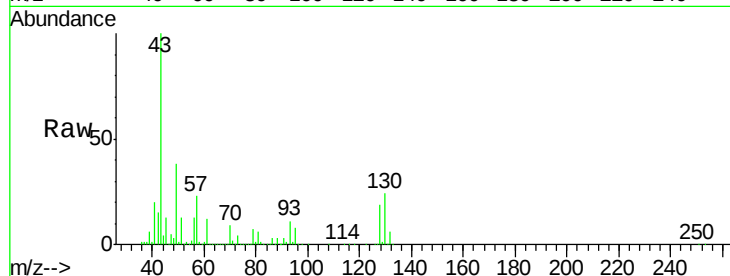
130 64.6 31.9 95.9

Manual Integrations

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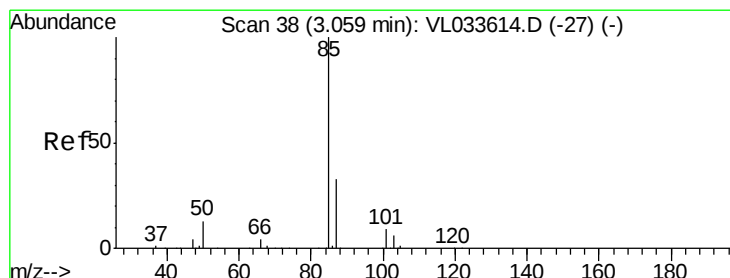
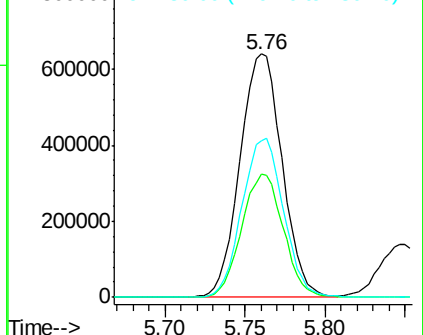
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 11.496 ppbv

RT: 3.07 min Scan# 42

Delta R.T. 0.01 min

Lab File: VL033620.D

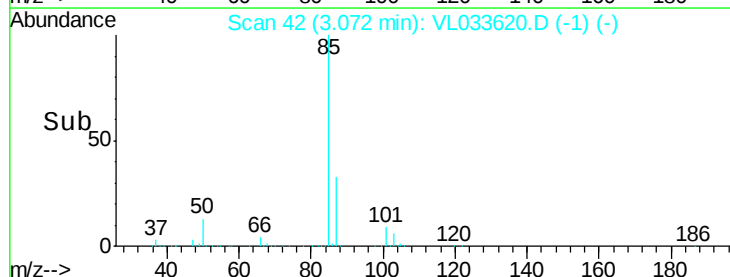
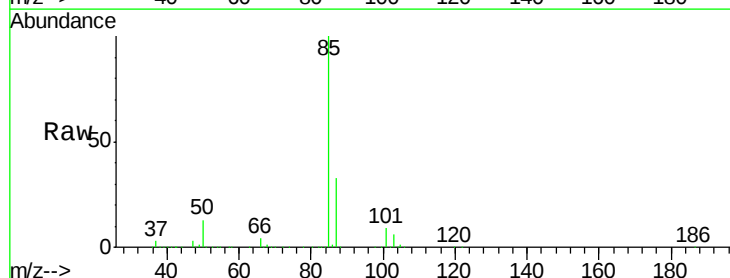
Acq: 1 May 2019 15:51

Tgt Ion: 85 Resp: 1993431

Ion Ratio Lower Upper

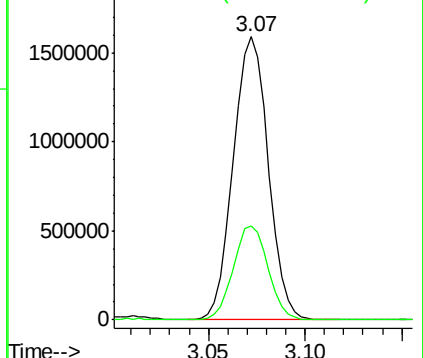
85 100

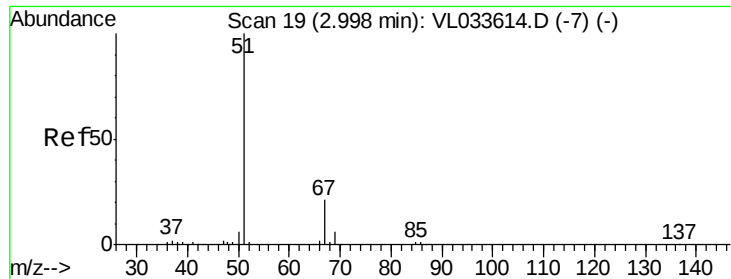
87 33.2 26.8 40.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





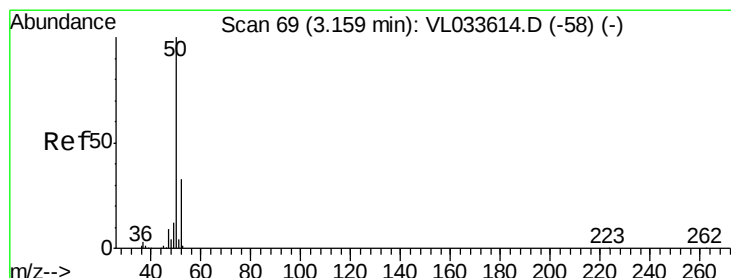
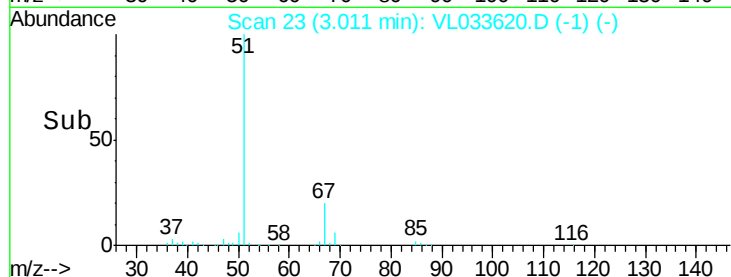
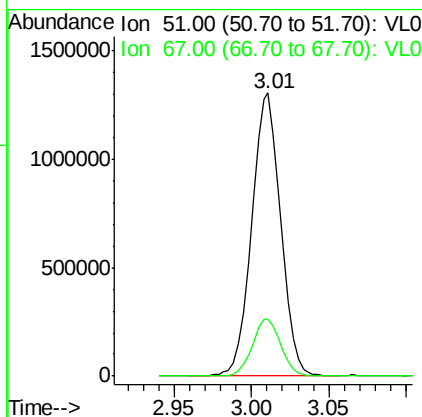
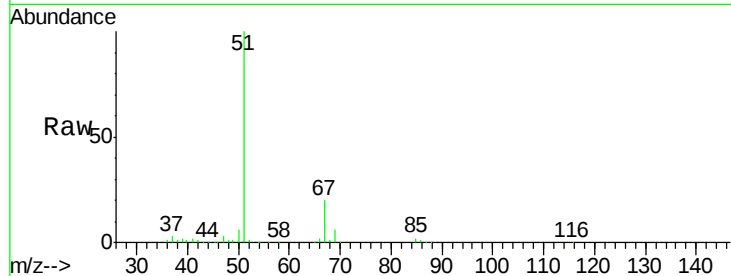
#3
Chlorodifluoromethane
Concen: 11.590 ppbv
RT: 3.01 min Scan# 23
Delta R.T. 0.01 min
Lab File: VL033620.D
Acq: 1 May 2019 15:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 51 Resp: 1707140
Ion Ratio Lower Upper
51 100
67 20.0 15.6 23.4

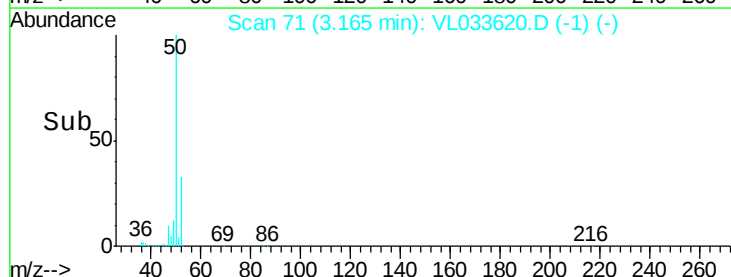
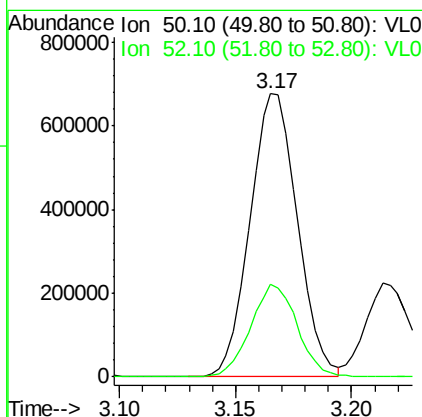
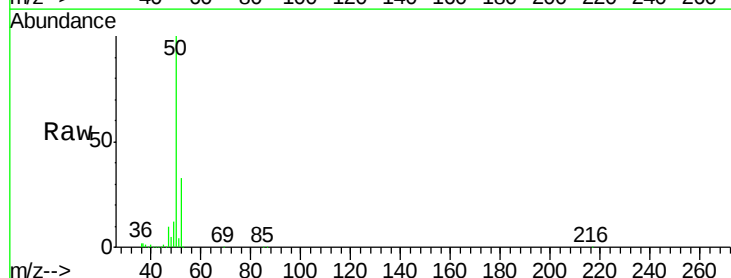
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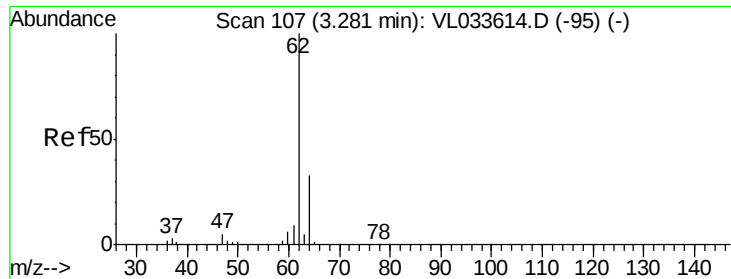
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#4
Chloromethane
Concen: 12.839 ppbv
RT: 3.17 min Scan# 71
Delta R.T. 0.01 min
Lab File: VL033620.D
Acq: 1 May 2019 15:51

Tgt Ion: 50 Resp: 962080
Ion Ratio Lower Upper
50 100
52 32.8 26.0 39.0





#5

Vinyl Chloride

Concen: 12.131 ppbv

RT: 3.29 min Scan# 109

Delta R.T. 0.01 min

Lab File: VL033620.D

Acq: 1 May 2019 15:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 953697

Ion Ratio Lower Upper

62 100

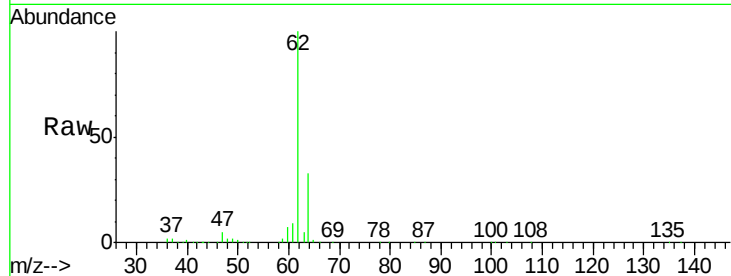
64 33.3 26.2 39.4

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.29

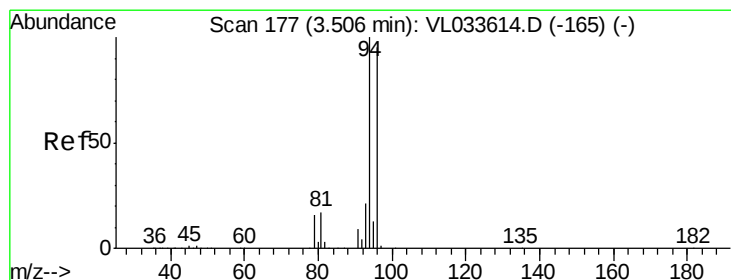
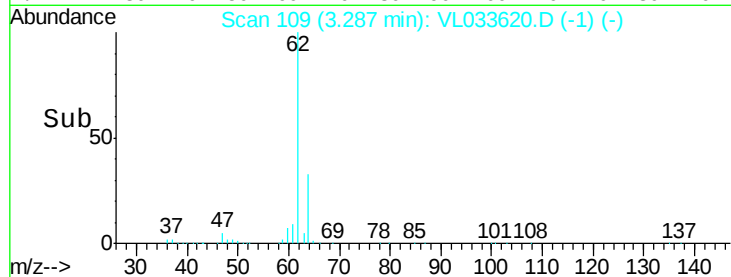
600000

400000

200000

0

Time-->



#6

Bromomethane

Concen: 13.024 ppbv

RT: 3.51 min Scan# 178

Delta R.T. 0.00 min

Lab File: VL033620.D

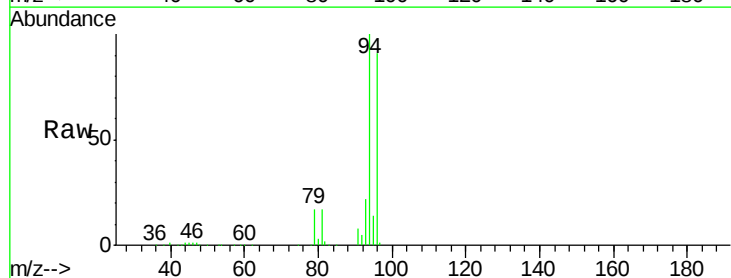
Acq: 1 May 2019 15:51

Tgt Ion: 94 Resp: 602575

Ion Ratio Lower Upper

94 100

96 91.2 75.7 113.5



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.51

500000

400000

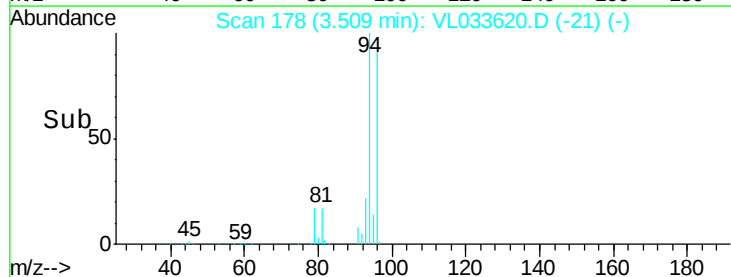
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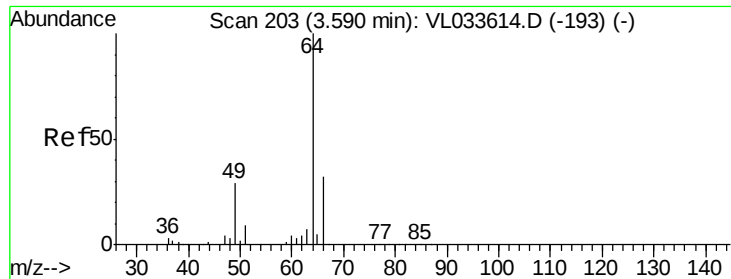
200000

100000

0

Time-->





#7

Chloroethane

Concen: 13.359 ppbv

RT: 3.60 min Scan# 205

Delta R.T. 0.01 min

Lab File: VL033620.D

Acq: 1 May 2019 15:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 350107

Ion Ratio Lower Upper

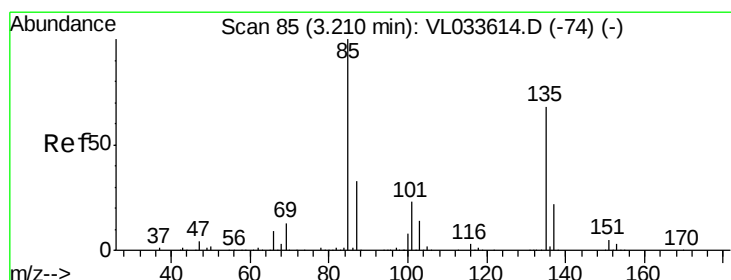
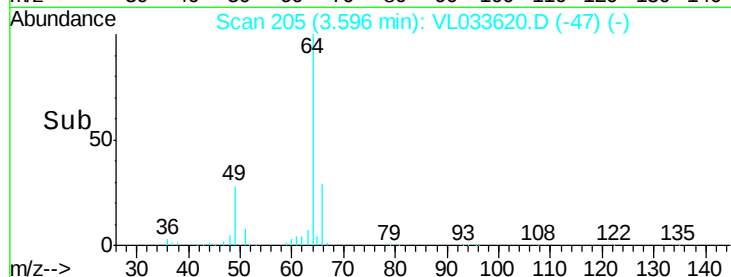
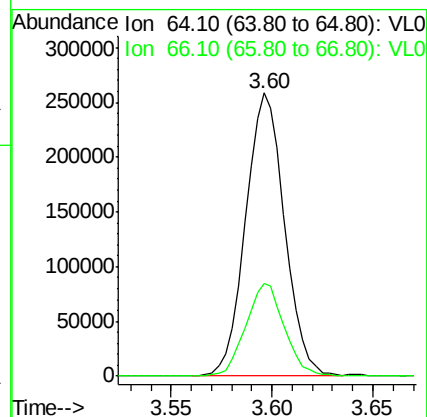
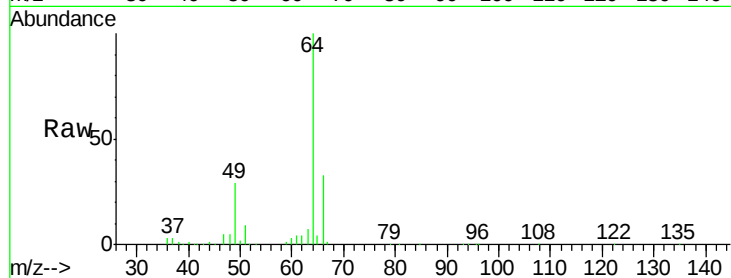
64 100

66 32.7 25.4 38.2

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#8

Dichlorotetrafluoroethane

Concen: 12.459 ppbv

RT: 3.22 min Scan# 87

Delta R.T. 0.01 min

Lab File: VL033620.D

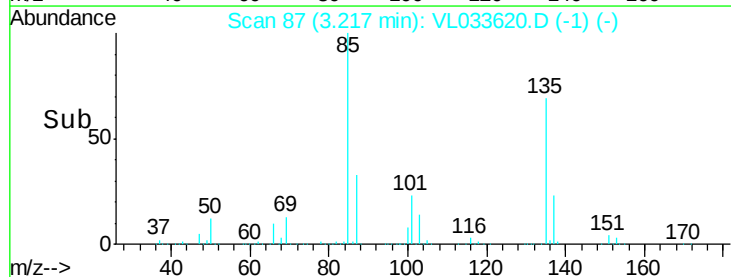
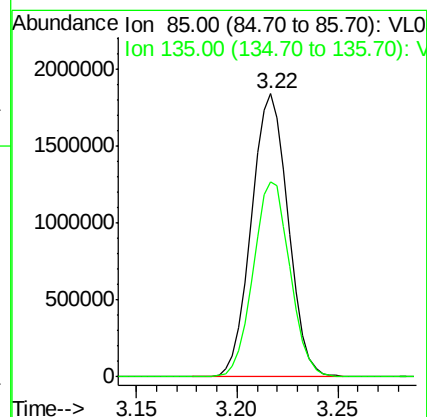
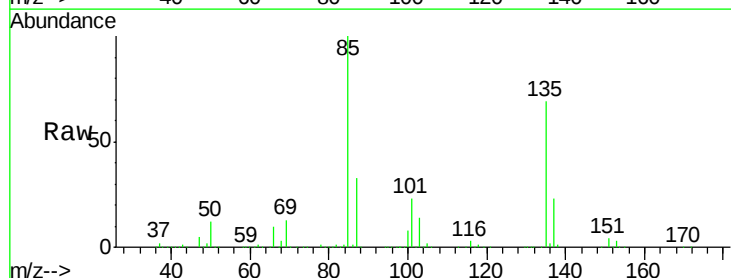
Acq: 1 May 2019 15:51

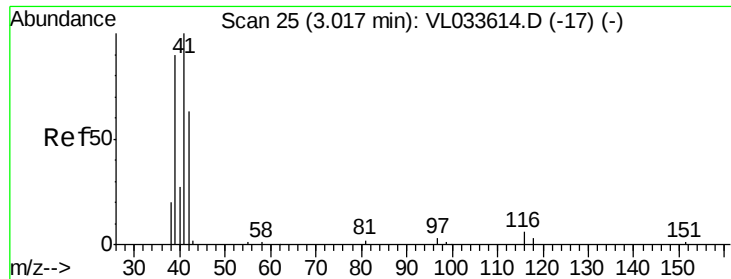
Tgt Ion: 85 Resp: 2350371

Ion Ratio Lower Upper

85 100

135 69.1 55.0 82.6





#9

Propene

Concen: 19.270 ppbv

RT: 3.03 min Scan# 29

Delta R.T. 0.01 min

Lab File: VL033620.D

Acq: 1 May 2019 15:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 759075

Ion Ratio Lower Upper

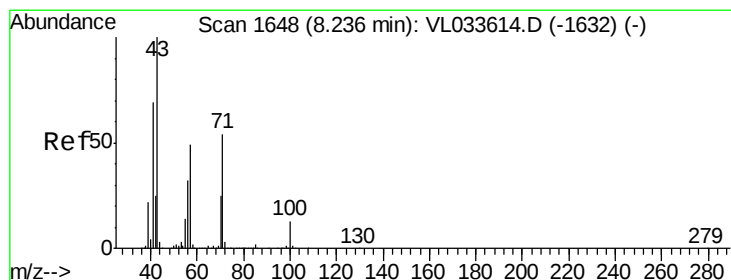
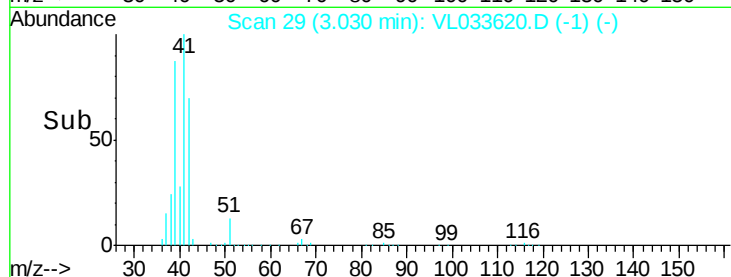
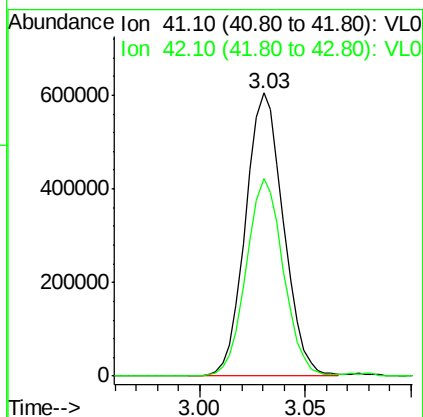
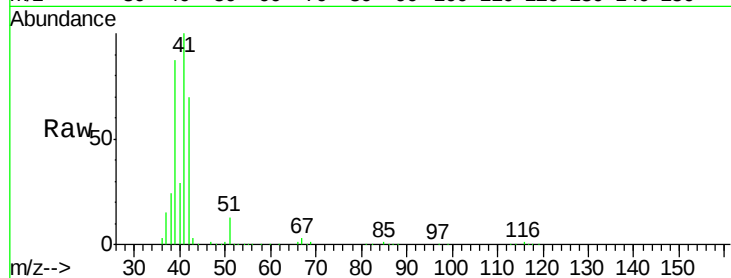
41 100

42 69.4 66.0 99.0

Manual Integrations
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#10

Heptane

Concen: 15.147 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. 0.01 min

Lab File: VL033620.D

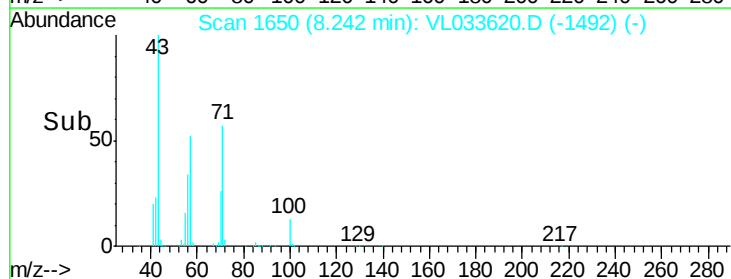
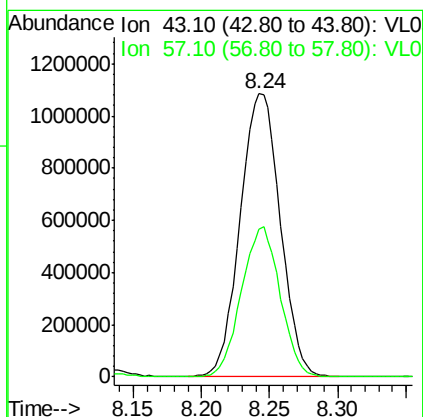
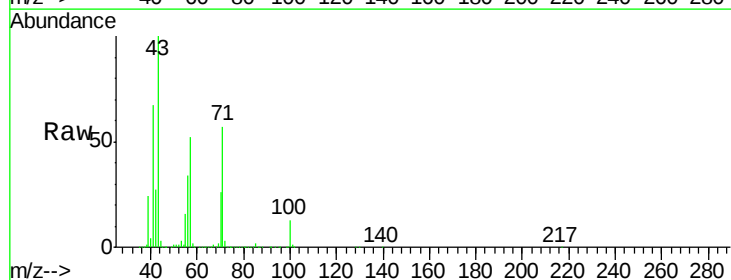
Acq: 1 May 2019 15:51

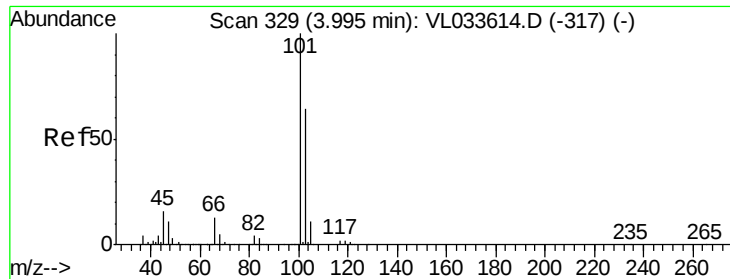
Tgt Ion: 43 Resp: 2206440

Ion Ratio Lower Upper

43 100

57 51.4 40.3 60.5





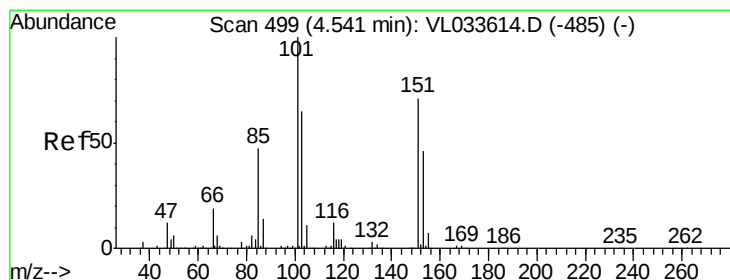
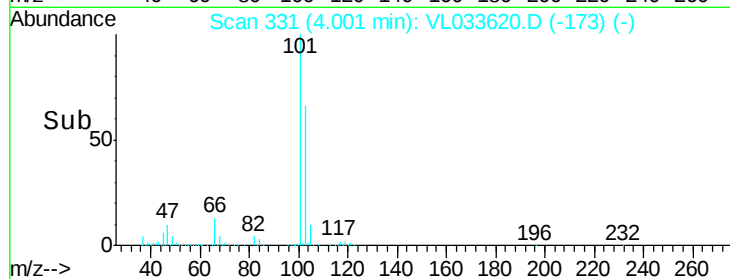
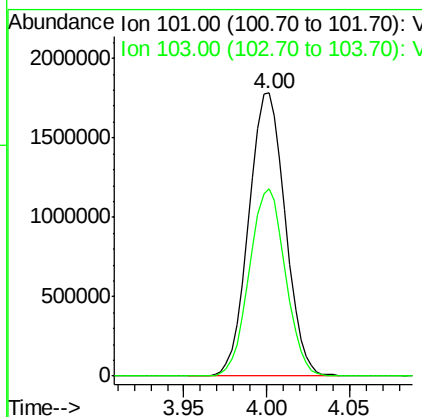
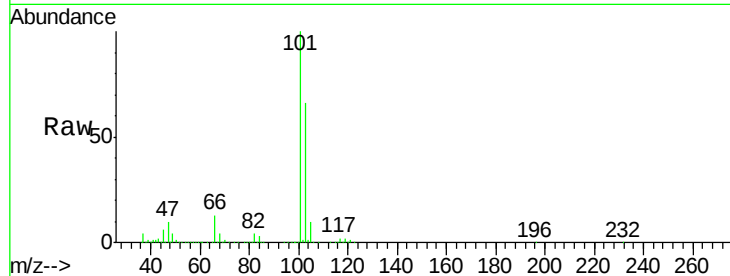
#11
 Trichlorofluoromethane
 Concen: 13.232 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. 0.01 min
 Lab File: VL033620.D
 Acq: 1 May 2019 15:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:101 Resp: 2727291
 Ion Ratio Lower Upper
 101 100
 103 66.1 51.2 76.8

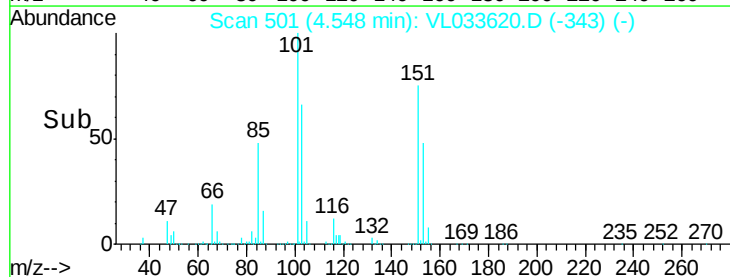
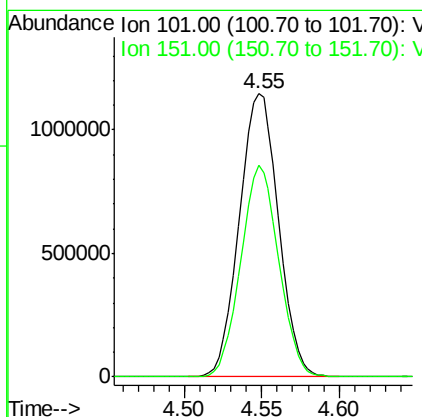
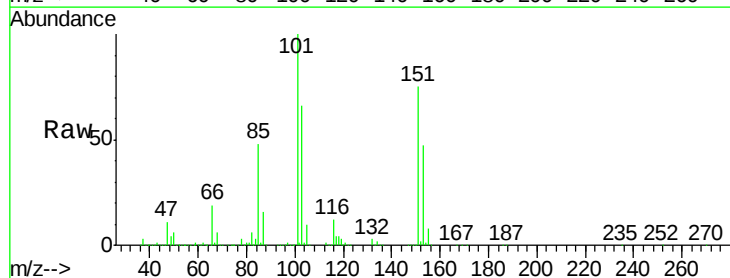
Manual Integrations
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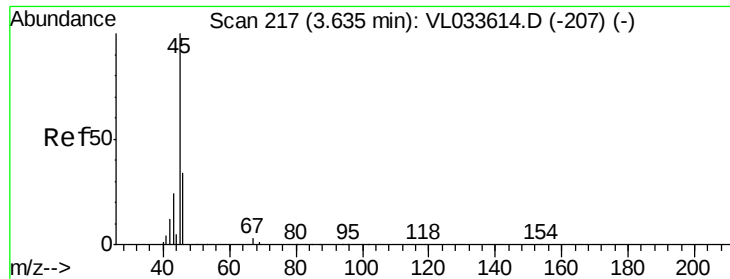
MMDadoda
 5/2/2019 4:04:17 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 14.281 ppbv
 RT: 4.55 min Scan# 501
 Delta R.T. 0.01 min
 Lab File: VL033620.D
 Acq: 1 May 2019 15:51

Tgt Ion:101 Resp: 2018712
 Ion Ratio Lower Upper
 101 100
 151 72.7 59.2 88.8





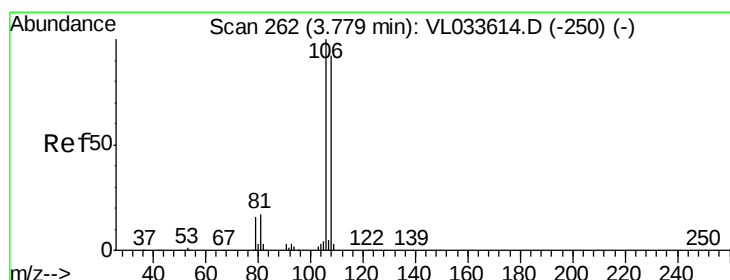
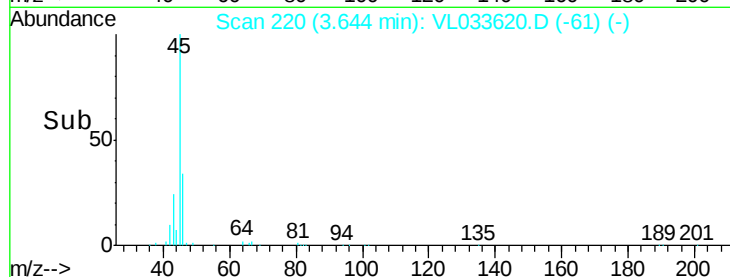
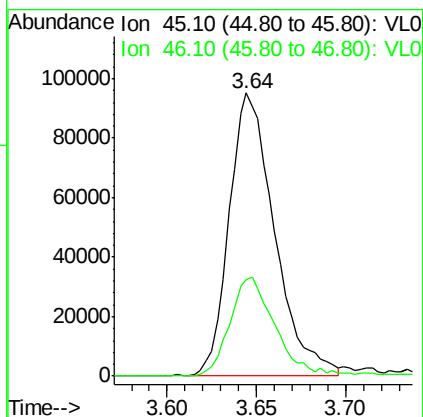
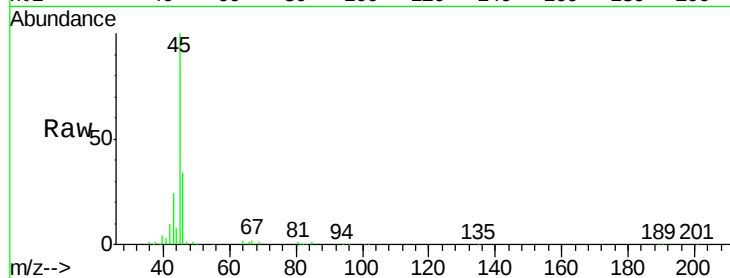
#13
Ethanol
Concen: 9.465 ppbv
RT: 3.64 min Scan# 220
Delta R.T. 0.01 min
Lab File: VL033620.D
Acq: 1 May 2019 15:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	45	46	Ratio	Lower	Upper
169050	100	35.9		14.6	58.2

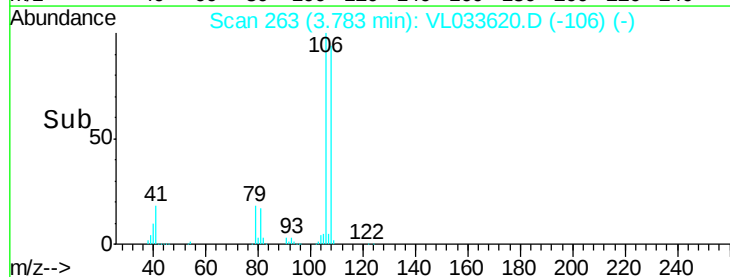
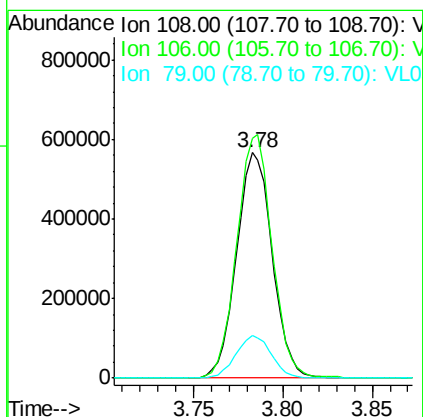
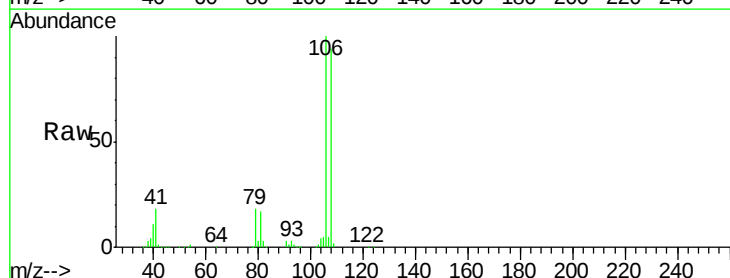
Manual Integrations
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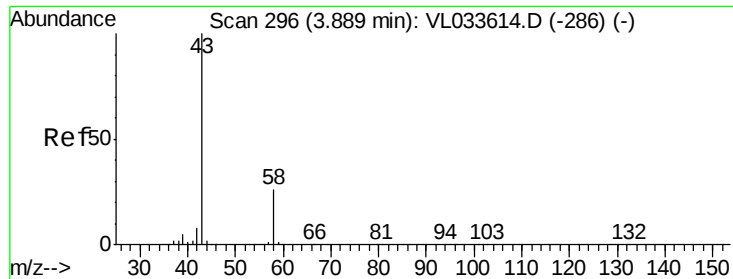
MMDadoda
5/2/2019 4:04:17 PM



#14
Bromoethene
Concen: 13.675 ppbv
RT: 3.78 min Scan# 263
Delta R.T. 0.00 min
Lab File: VL033620.D
Acq: 1 May 2019 15:51

Tgt Ion	108	106	79	Ratio	Lower	Upper
793452	100	106.6	18.9		84.6	127.0





#15

Acetone

Concen: 12.441 ppbv

RT: 3.90 min Scan# 298

Delta R.T. 0.01 min

Lab File: VL033620.D

Acq: 1 May 2019 15:51

Tot Ion: 43 Resp: 1742729

Ion Ratio Lower Upper

43 100

58 26.4 21.2 31.8

Instrument :

MSVOA_L

ClientSampleId :

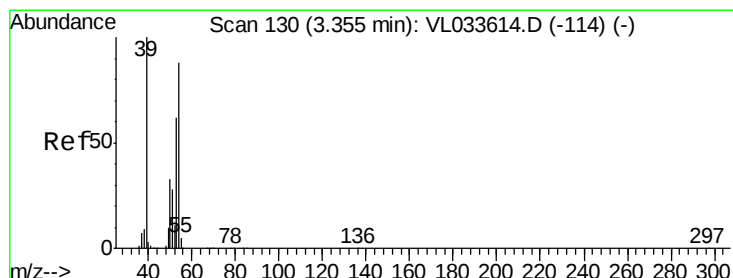
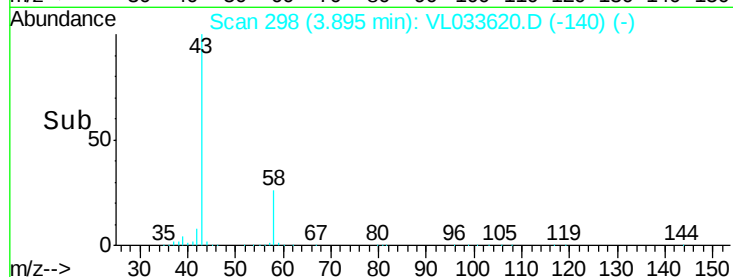
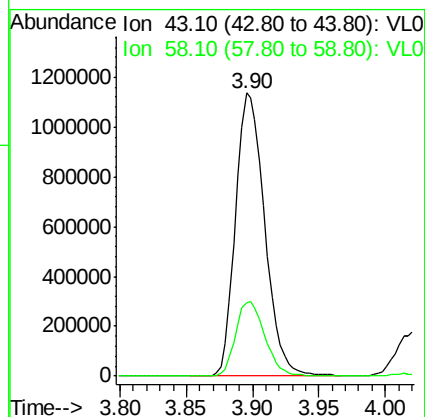
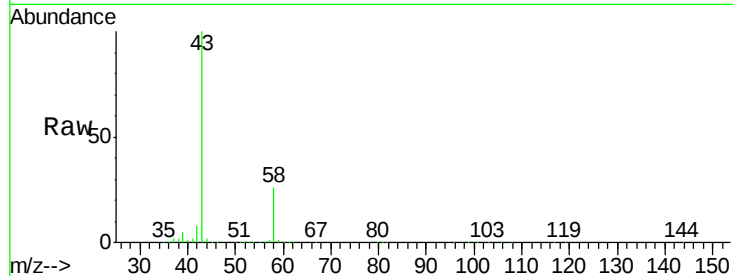
VSTDIC015

Manual Integrations

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#16

1,3-Butadiene

Concen: 13.751 ppbv

RT: 3.36 min Scan# 131

Delta R.T. 0.00 min

Lab File: VL033620.D

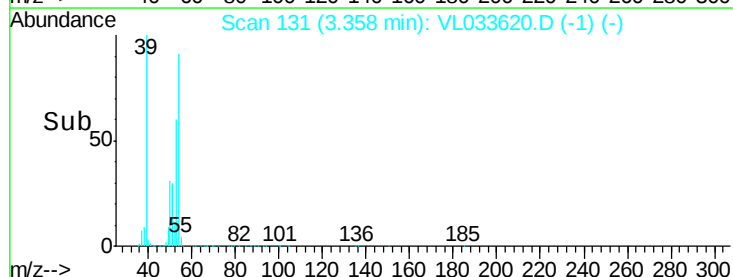
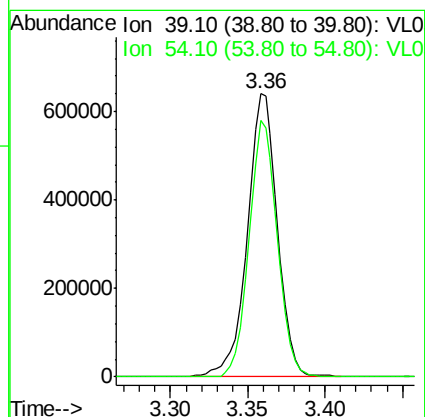
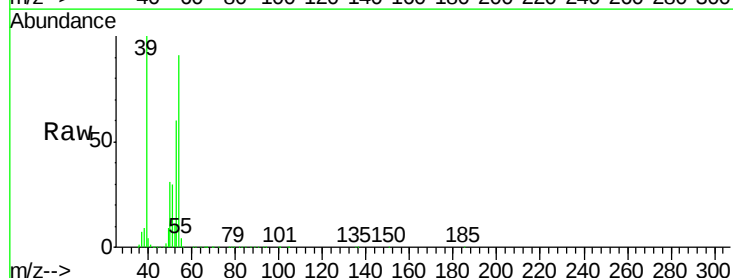
Acq: 1 May 2019 15:51

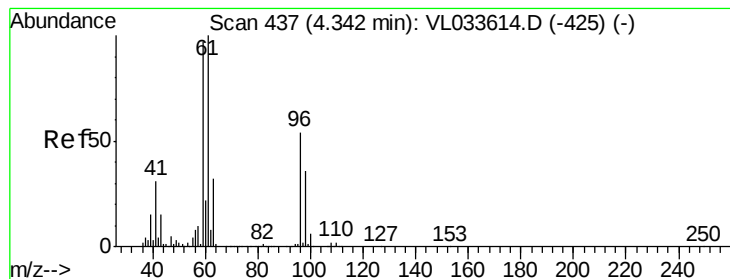
Tgt Ion: 39 Resp: 866943

Ion Ratio Lower Upper

39 100

54 85.2 68.4 102.6





#17

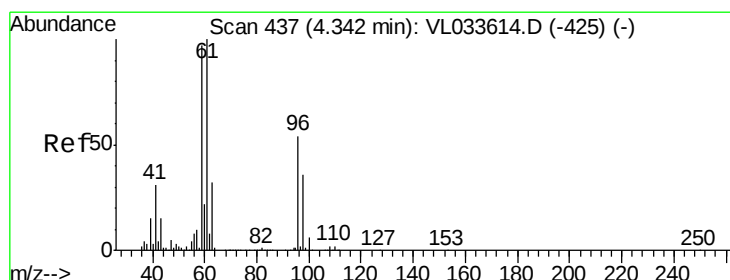
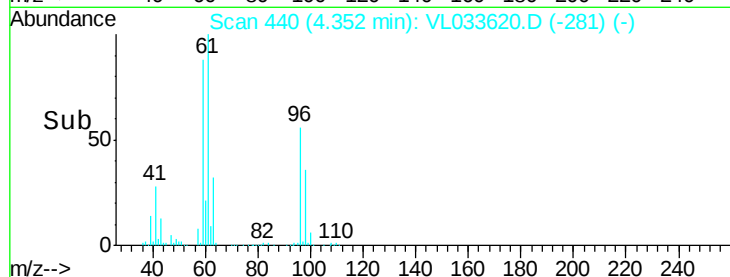
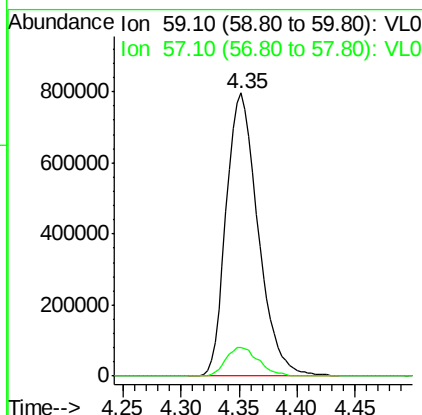
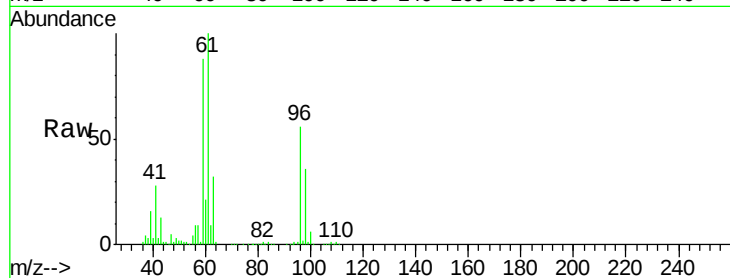
tert-Butyl alcohol
Concen: 12.543 ppbv
RT: 4.35 min Scan# 440
Delta R.T. 0.01 min
Lab File: VL033620.D
Acq: 1 May 2019 15:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 59 Resp: 1517034
Ion Ratio Lower Upper
59 100
57 10.7 8.4 12.6

Manual Integrations
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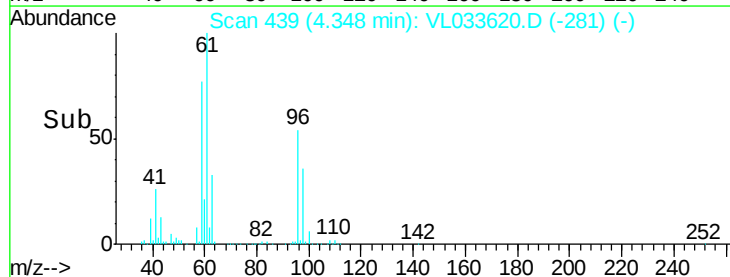
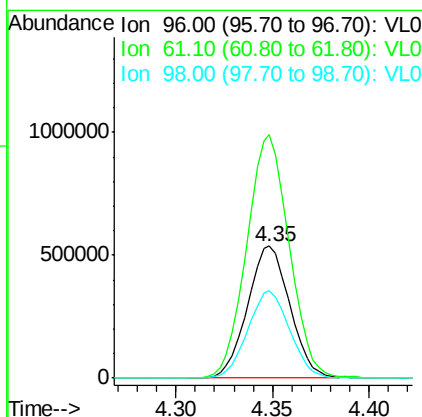
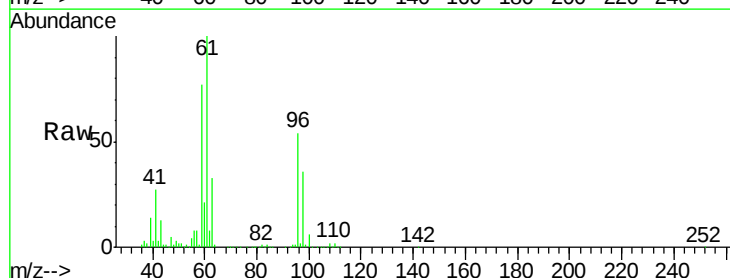
MMDadoda
5/2/2019 4:04:17 PM

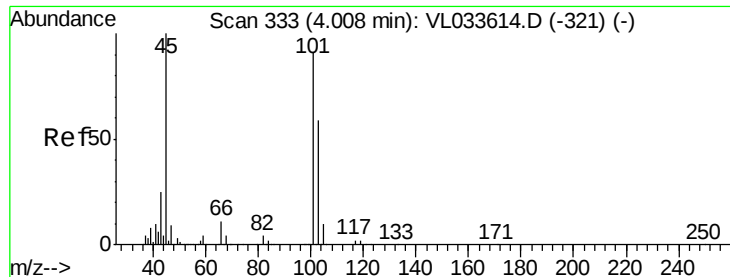


#18

1,1-Dichloroethene
Concen: 13.312 ppbv
RT: 4.35 min Scan# 439
Delta R.T. 0.01 min
Lab File: VL033620.D
Acq: 1 May 2019 15:51

Tgt Ion: 96 Resp: 817771
Ion Ratio Lower Upper
96 100
61 184.3 147.3 220.9
98 66.2 53.6 80.4





#19

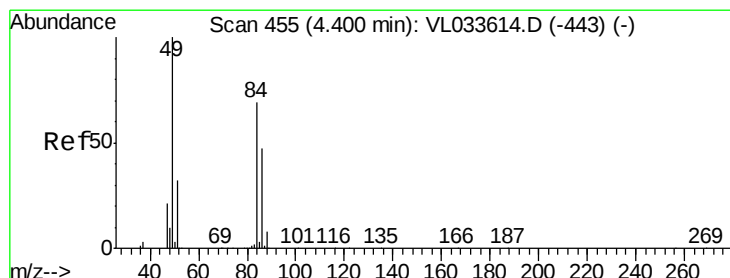
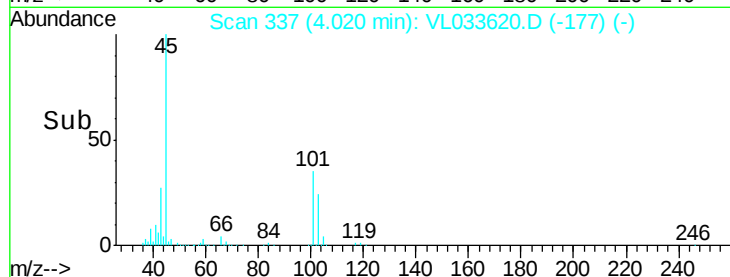
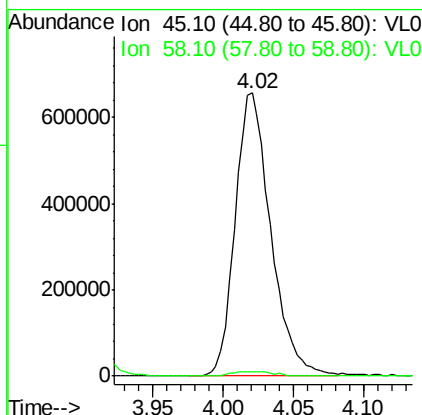
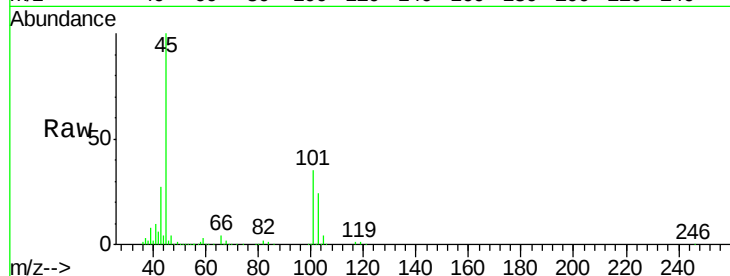
Isopropyl Alcohol
 Concen: 12.095 ppbv
 RT: 4.02 min Scan# 337
 Delta R.T. 0.01 min
 Lab File: VL033620.D
 Acq: 1 May 2019 15:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 45 Resp: 1162894
 Ion Ratio Lower Upper
 45 100
 58 2.4 1.8 2.6

Manual Integrations
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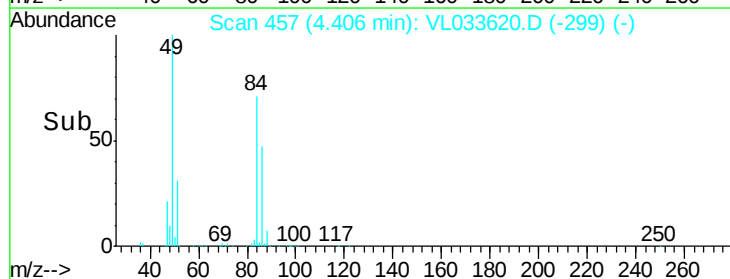
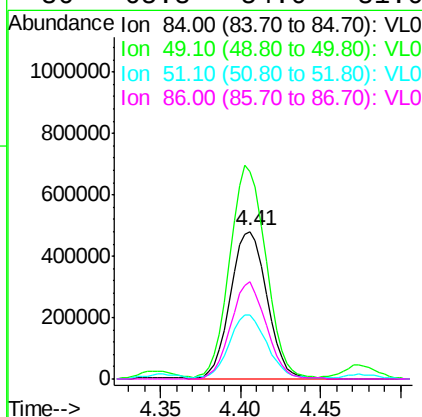
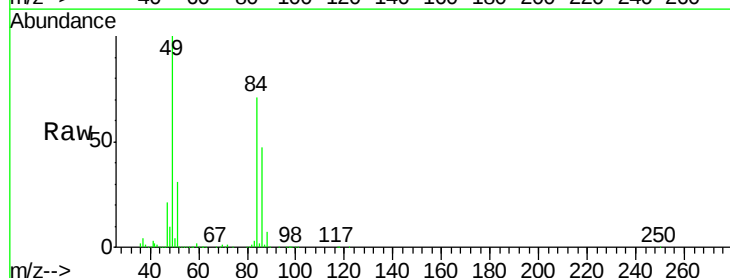
MMDadoda
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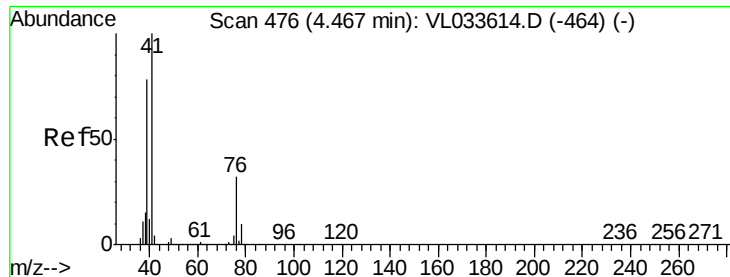


#20

Methylene Chloride
 Concen: 13.708 ppbv
 RT: 4.41 min Scan# 457
 Delta R.T. 0.01 min
 Lab File: VL033620.D
 Acq: 1 May 2019 15:51

Tgt Ion: 84 Resp: 748400
 Ion Ratio Lower Upper
 84 100
 49 139.4 116.2 174.2
 51 42.4 37.0 55.6
 86 65.8 54.0 81.0





#21

Allvl Chloride

Concen: 14.909 ppbv

RT: 4.47 min Scan# 478

Delta R.T. 0.01 min

Lab File: VL033620.D

Acq: 1 May 2019 15:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 1313804

Ion Ratio Lower Upper

41 100

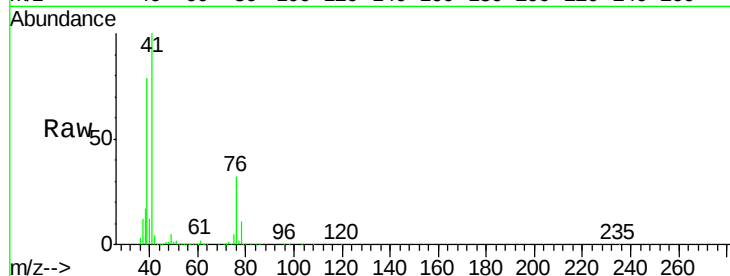
76 32.5 25.0 37.6

39 81.9 64.6 96.8

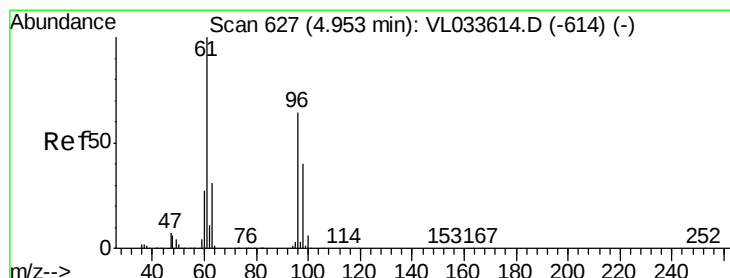
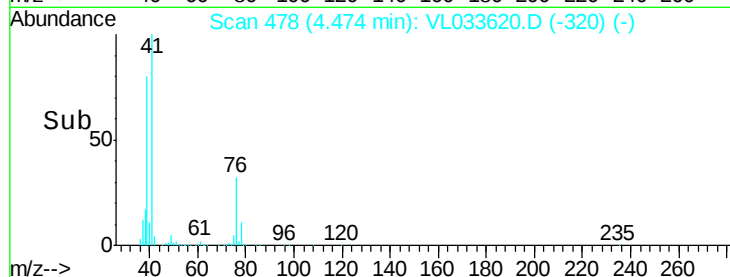
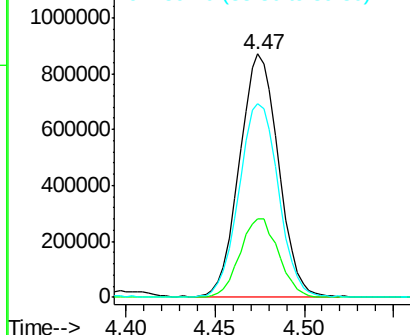
Manual Integrations
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Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 15.219 ppbv

RT: 4.96 min Scan# 629

Delta R.T. 0.01 min

Lab File: VL033620.D

Acq: 1 May 2019 15:51

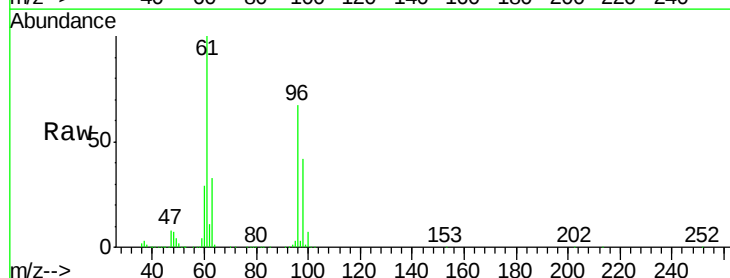
Tgt Ion: 96 Resp: 915599

Ion Ratio Lower Upper

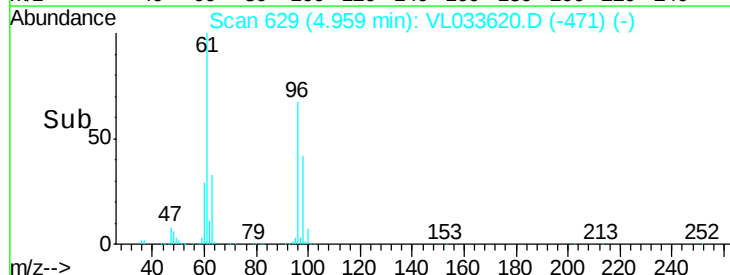
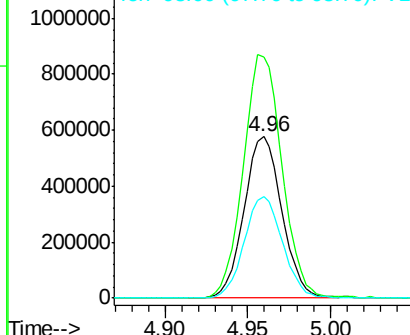
96 100

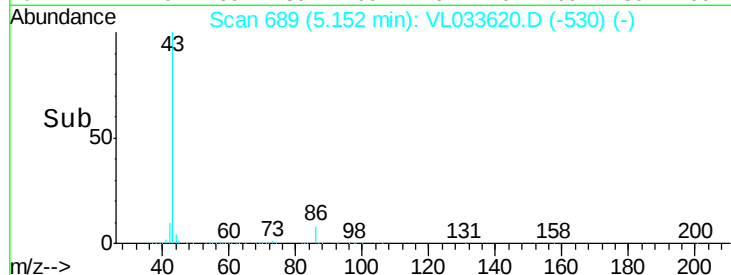
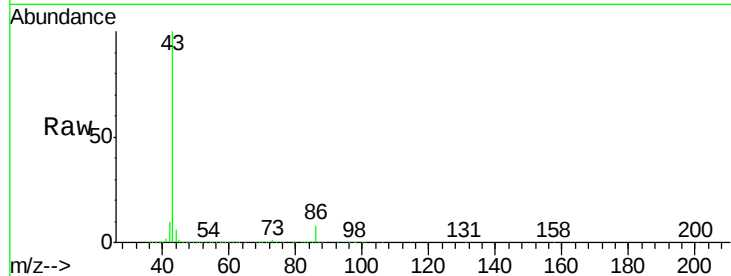
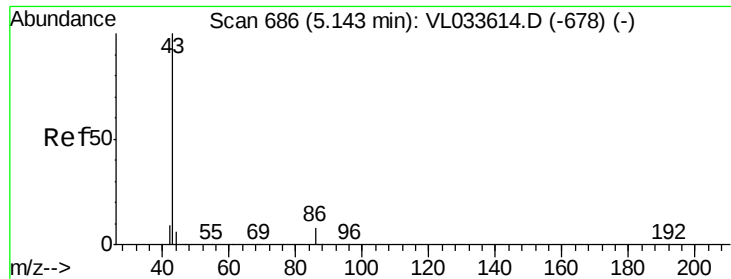
61 149.7 124.9 187.3

98 62.6 50.5 75.7



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#23
 Vinyl Acetate
 Concen: 14.766 ppbv
 RT: 5.15 min Scan# 689
 Delta R.T. 0.01 min
 Lab File: VL033620.D
 Acq: 1 May 2019 15:51

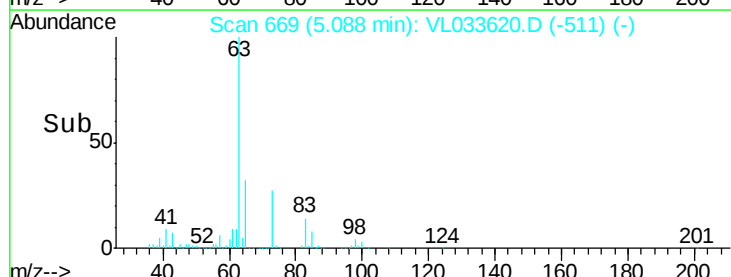
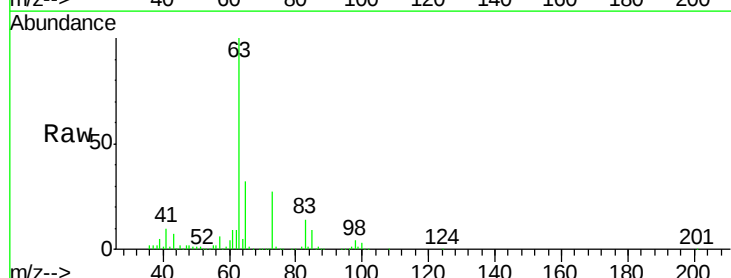
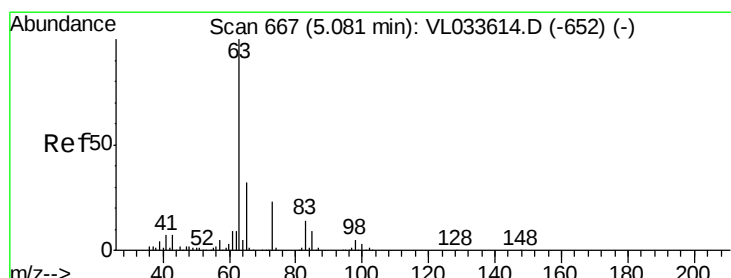
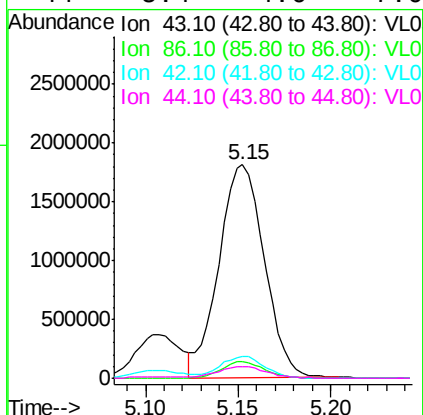
Tot Ion: 43 Resp: 3075993

Ion	Ratio	Lower	Upper
43	100		
86	7.6	5.8	8.8
42	10.4	7.8	11.8
44	5.4	4.6	7.0

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
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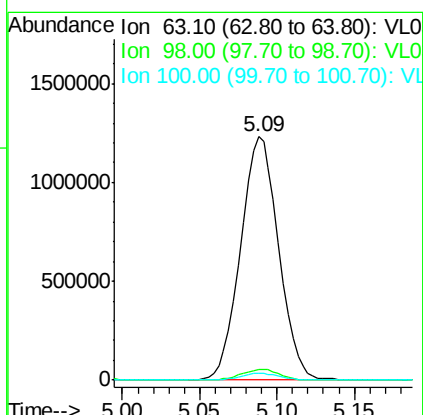
MMDadoda
 5/2/2019 4:04:17 PM

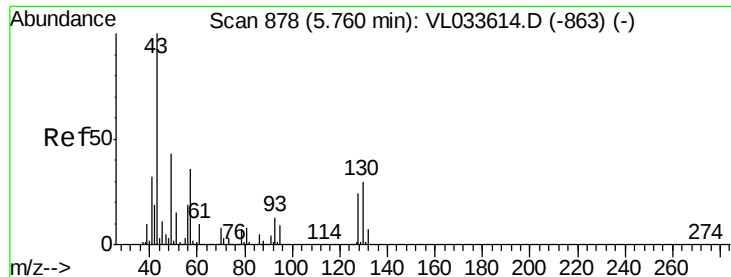


#24
 1,1-Dichloroethane
 Concen: 13.564 ppbv
 RT: 5.09 min Scan# 669
 Delta R.T. 0.01 min
 Lab File: VL033620.D
 Acq: 1 May 2019 15:51

Tgt Ion: 63 Resp: 2103539

Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.4	7.2
100	2.9	1.4	4.0





#25

Ethyl Acetate

Concen: 13.836 ppbv

RT: 5.77 min Scan# 880

Delta R.T. 0.01 min

Lab File: VL033620.D

Acq: 1 May 2019 15:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 3678448

Ion Ratio Lower Upper

43 100

45 10.1 8.1 12.1

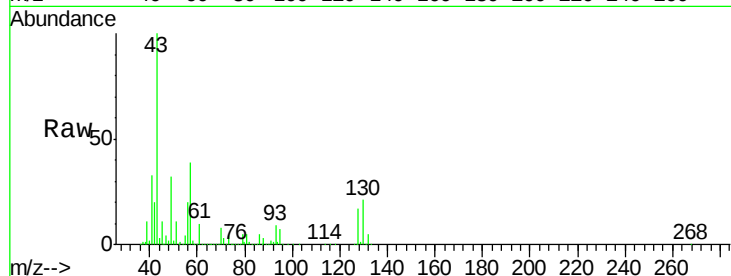
61 9.6 7.5 11.3

70 7.4 5.8 8.6

Manual Integrations
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MMDadoda

5/2/2019 4:04:17 PM

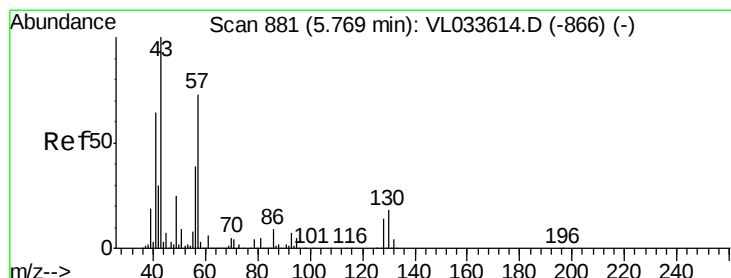
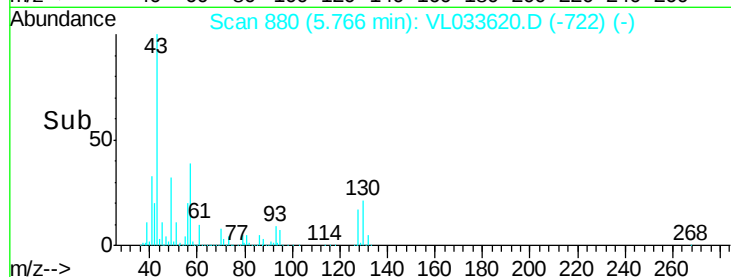
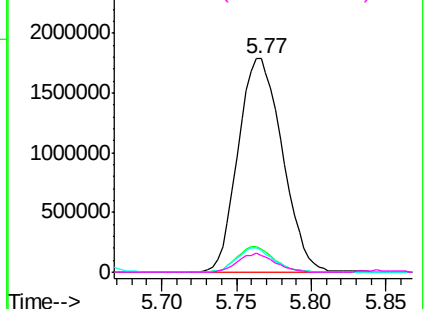


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 14.501 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.01 min

Lab File: VL033620.D

Acq: 1 May 2019 15:51

Tgt Ion: 57 Resp: 1623468

Ion Ratio Lower Upper

57 100

41 87.8 70.6 106.0

43 227.6 186.0 279.0

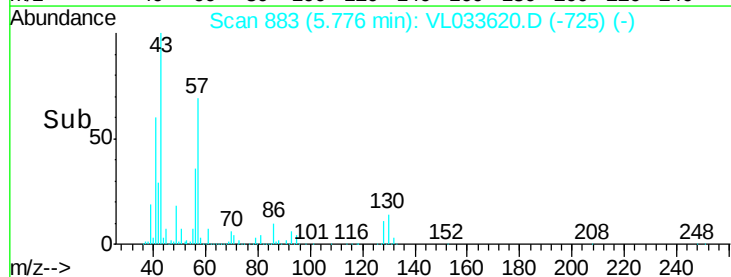
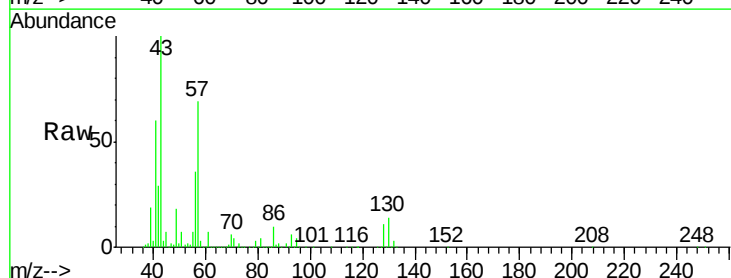
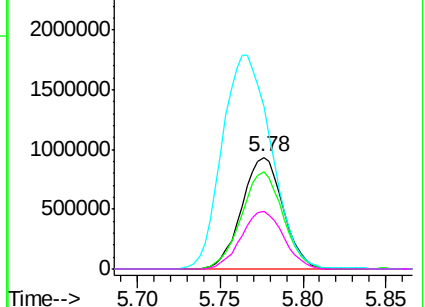
56 53.0 42.7 64.1

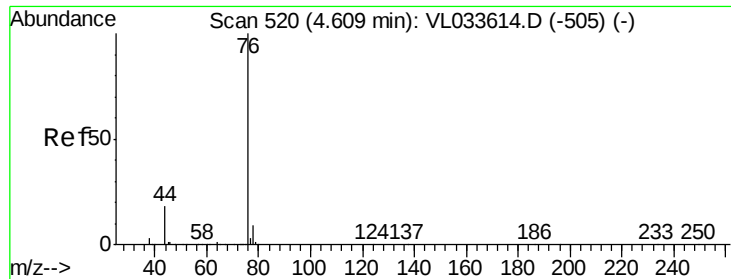
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





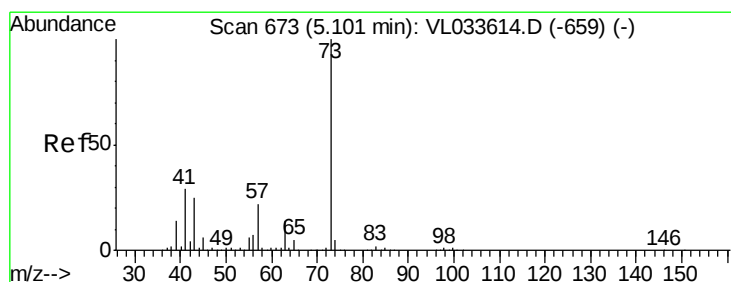
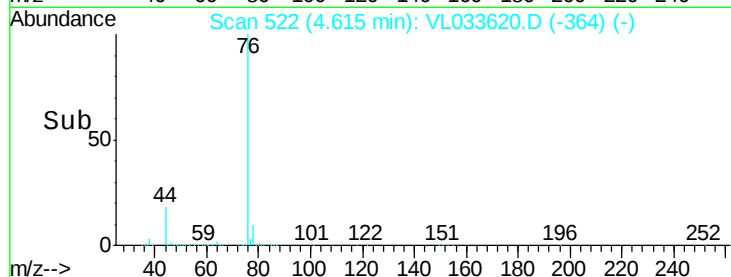
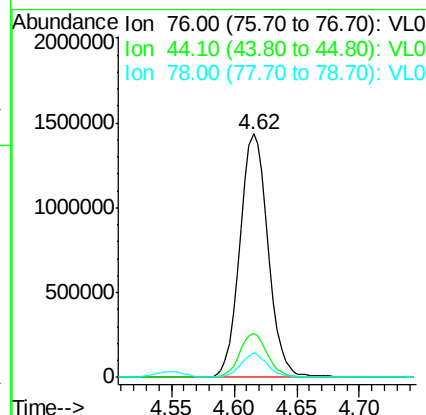
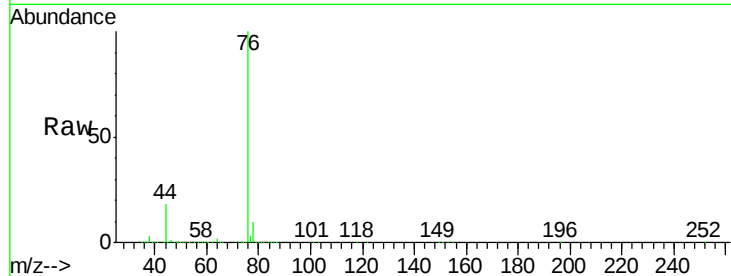
#27
Carbon Disulfide
Concen: 16.544 ppbv
RT: 4.62 min Scan# 522
Delta R.T. 0.01 min
Lab File: VL033620.D
Acq: 1 May 2019 15:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
76	100		
44	17.7	14.3	21.5
78	9.2	7.5	11.3

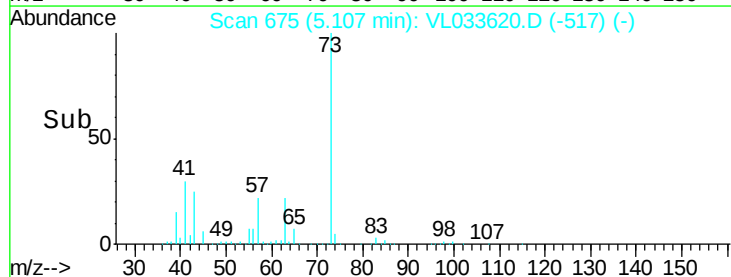
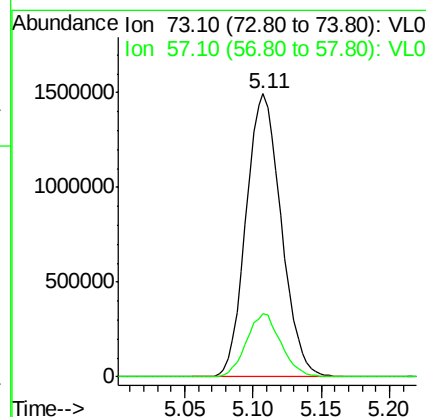
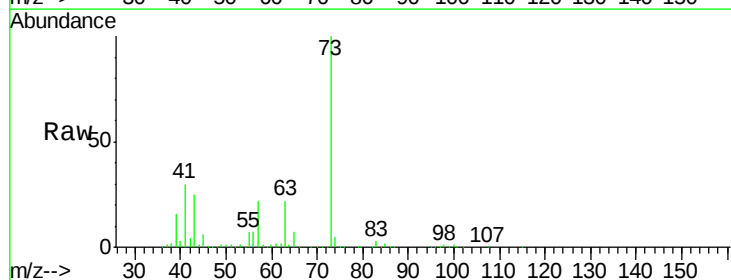
Manual Integrations
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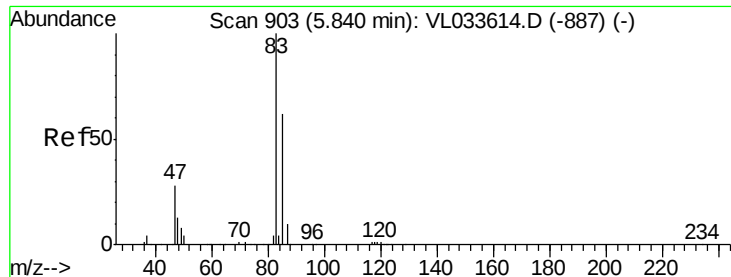
MMDadoda
5/2/2019 4:04:17 PM



#28
Methyl tert-Butyl Ether
Concen: 14.162 ppbv
RT: 5.11 min Scan# 675
Delta R.T. 0.01 min
Lab File: VL033620.D
Acq: 1 May 2019 15:51

Tgt Ion	Ratio	Lower	Upper
73	100		
57	22.0	17.8	26.8





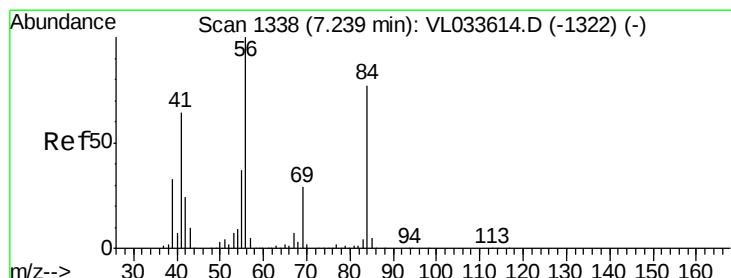
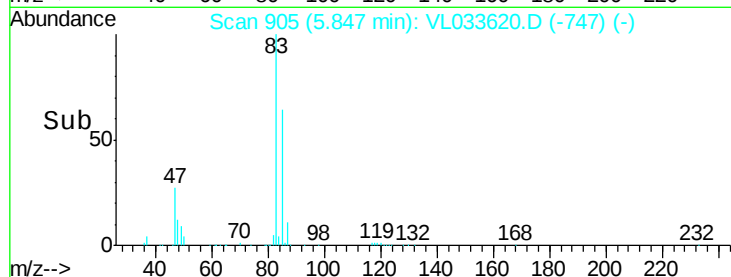
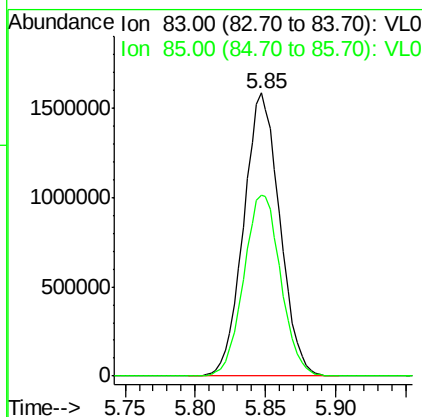
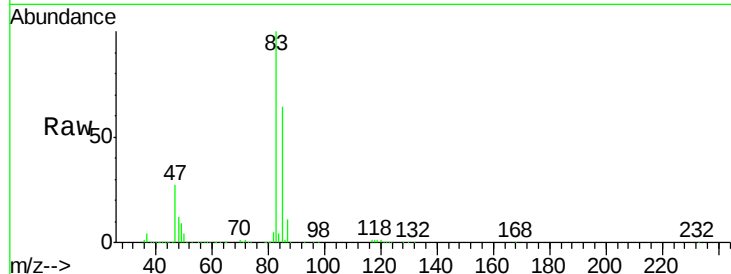
#29
Chloroform
Concen: 13.856 ppbv
RT: 5.85 min Scan# 905
Delta R.T. 0.01 min
Lab File: VL033620.D
Acq: 1 May 2019 15:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 2842966
Ion Ratio Lower Upper
83 100
85 63.8 49.9 74.9

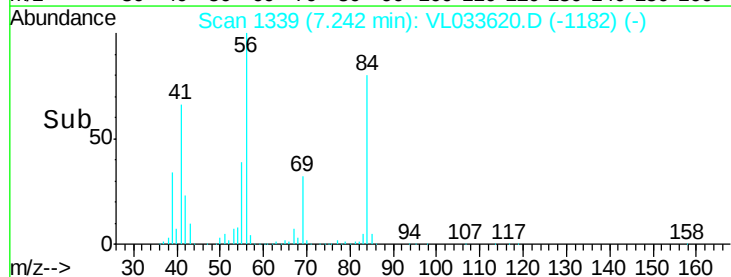
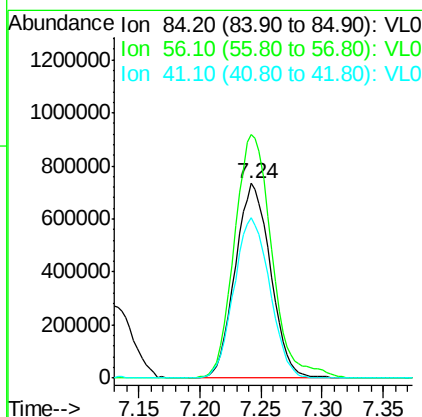
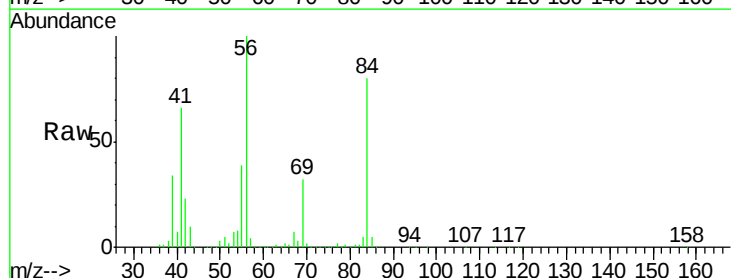
Manual Integrations
APPROVED

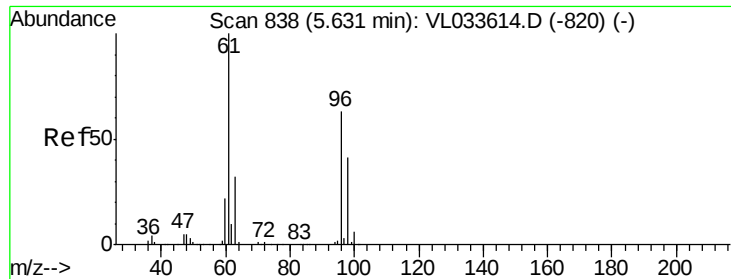
MMDadoda
5/2/2019 4:04:17 PM



#30
Cyclohexane
Concen: 15.190 ppbv
RT: 7.24 min Scan# 1339
Delta R.T. 0.00 min
Lab File: VL033620.D
Acq: 1 May 2019 15:51

Tgt Ion: 84 Resp: 1474282
Ion Ratio Lower Upper
84 100
56 132.0 108.4 162.6
41 83.3 67.0 100.4





#31

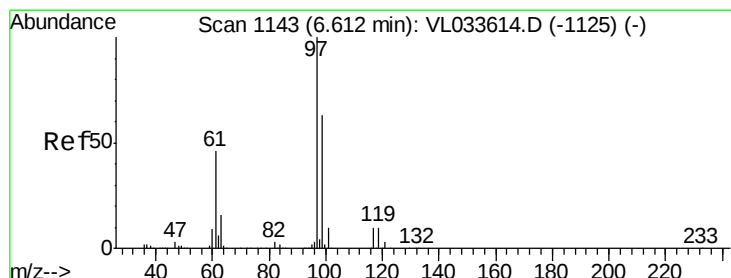
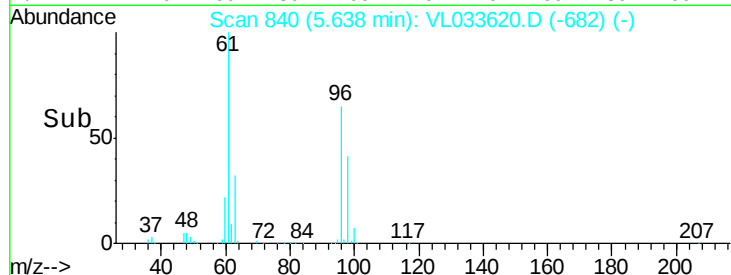
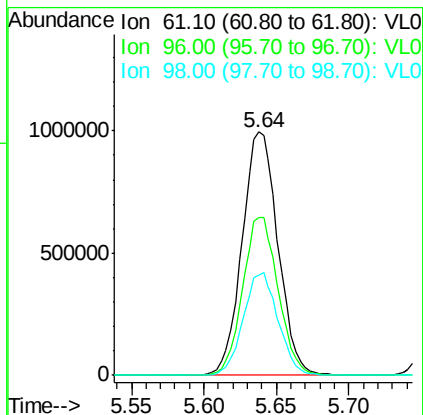
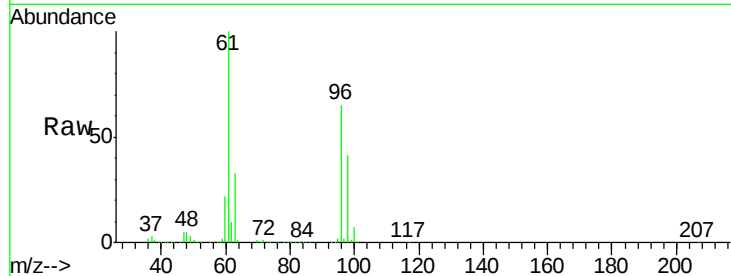
cis-1,2-Dichloroethene
Concen: 15.137 ppbv
RT: 5.64 min Scan# 840
Delta R.T. 0.01 min
Lab File: VL033620.D
Acq: 1 May 2019 15:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
61	100		
96	64.9	50.6	76.0
98	41.3	32.8	49.2

Manual Integrations
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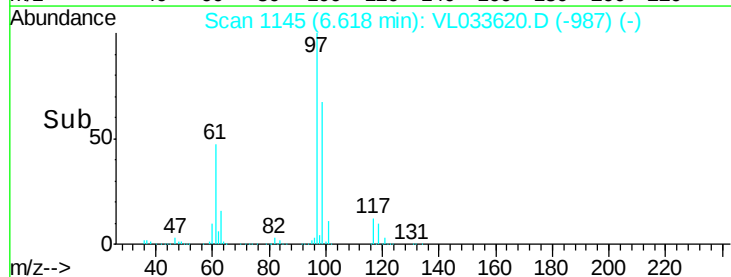
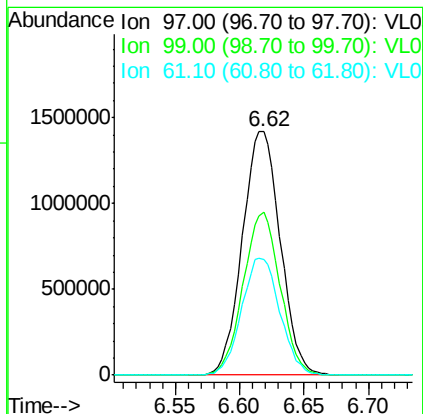
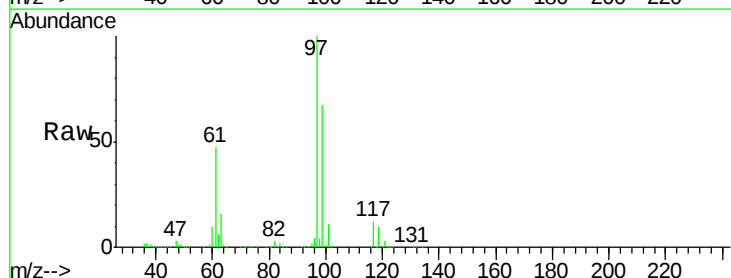
MMDadoda
5/2/2019 4:04:17 PM

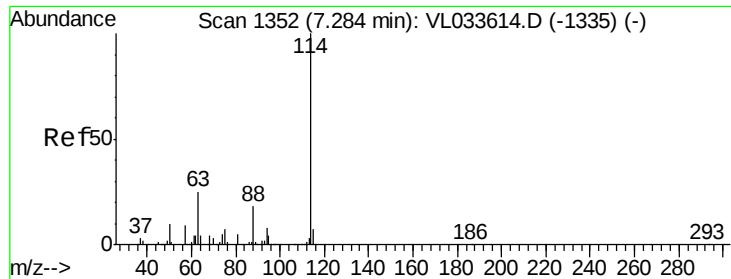


#32

1,1,1-Trichloroethane
Concen: 13.537 ppbv
RT: 6.62 min Scan# 1145
Delta R.T. 0.01 min
Lab File: VL033620.D
Acq: 1 May 2019 15:51

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.1	51.9	77.9
61	48.6	38.2	57.2





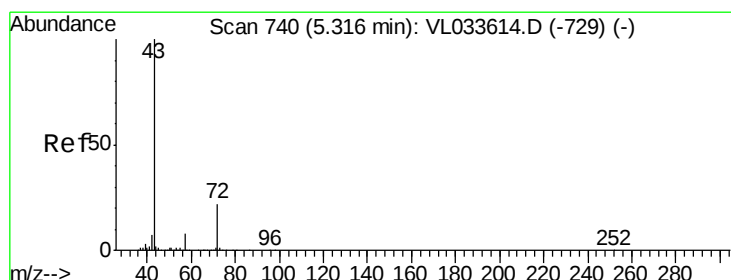
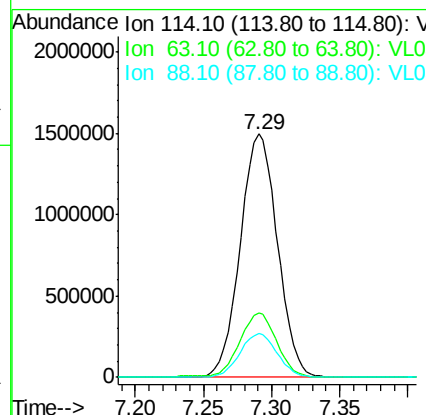
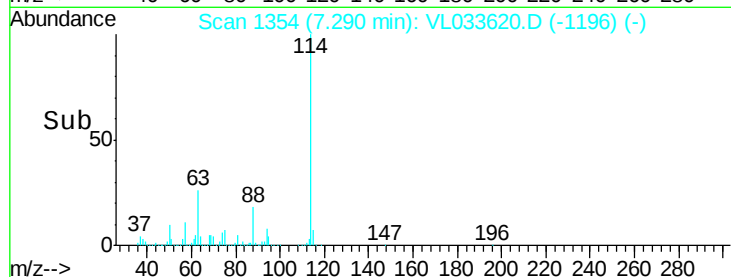
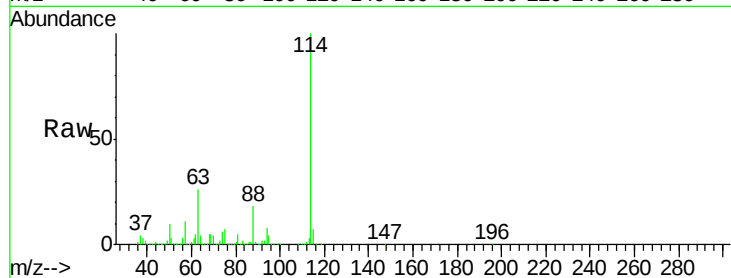
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. 0.01 min
 Lab File: VL033620.D
 Acq: 1 May 2019 15:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.9	21.1	31.7
88	18.0	14.2	21.4

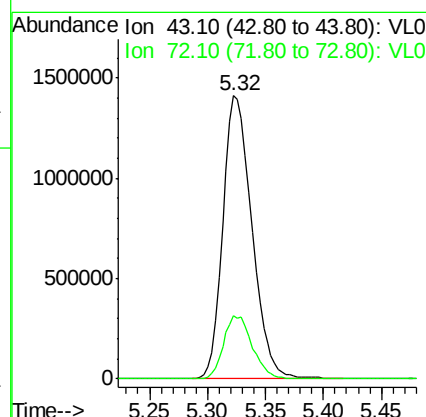
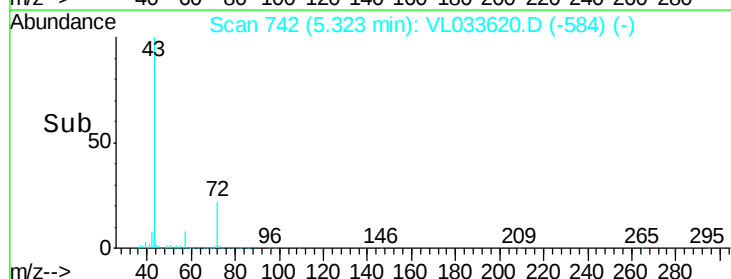
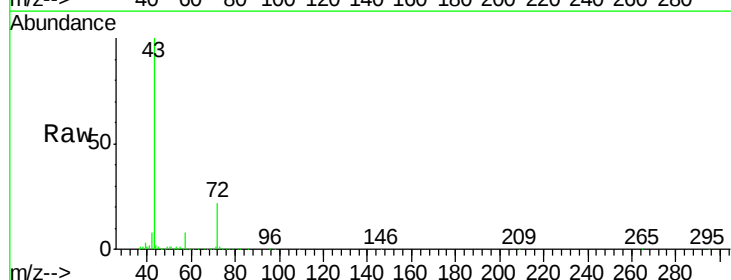
Manual Integrations
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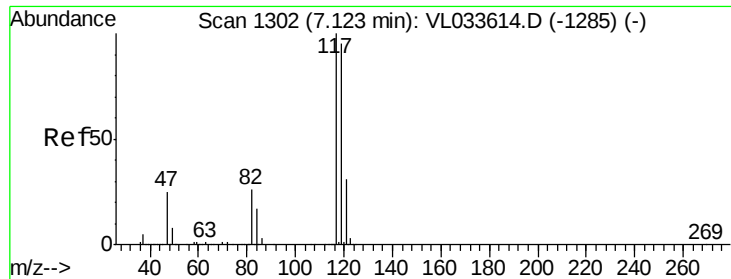
MMDadoda
 5/2/2019 4:04:17 PM



#34
 2-Butanone
 Concen: 14.052 ppbv
 RT: 5.32 min Scan# 742
 Delta R.T. 0.01 min
 Lab File: VL033620.D
 Acq: 1 May 2019 15:51

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.3	17.8	26.8





#35

Carbon Tetrachloride

Concen: 14.057 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. 0.01 min

Lab File: VL033620.D

Acq: 1 May 2019 15:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 3158771

Ion Ratio Lower Upper

117 100

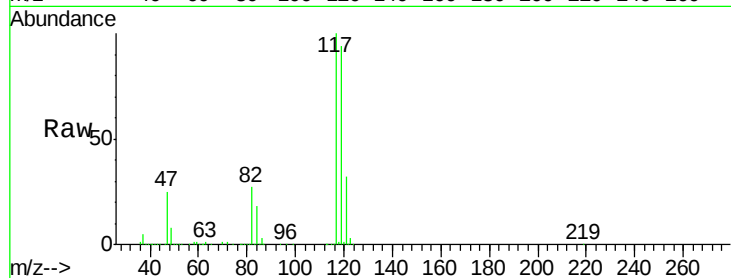
119 94.5 76.2 114.4

121 31.5 24.9 37.3

Manual Integrations
APPROVED

MMDadoda

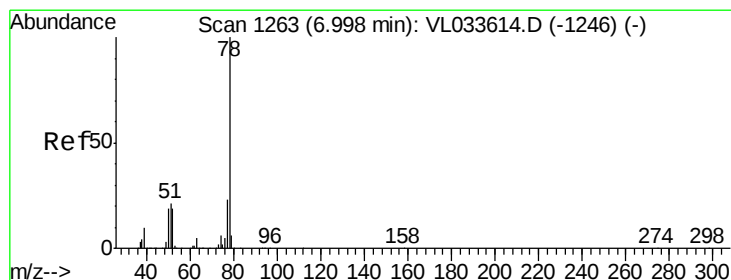
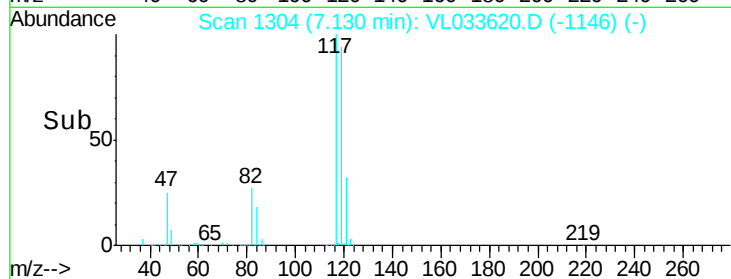
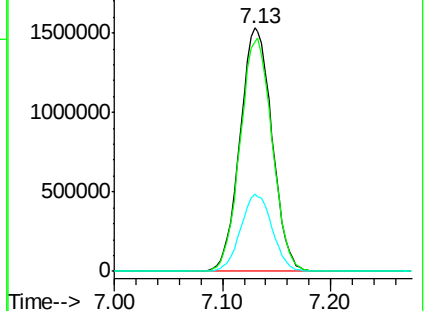
5/2/2019 4:04:17 PM



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: 14.461 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. 0.01 min

Lab File: VL033620.D

Acq: 1 May 2019 15:51

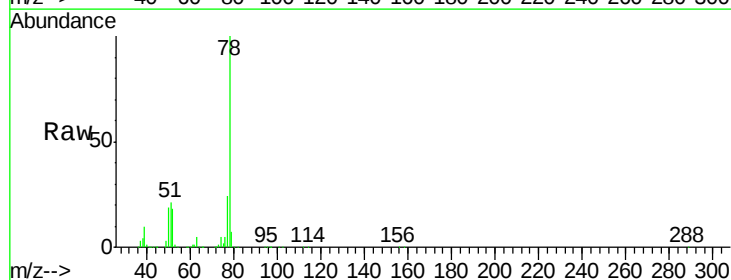
Tgt Ion: 78 Resp: 3494971

Ion Ratio Lower Upper

78 100

77 23.7 18.1 27.1

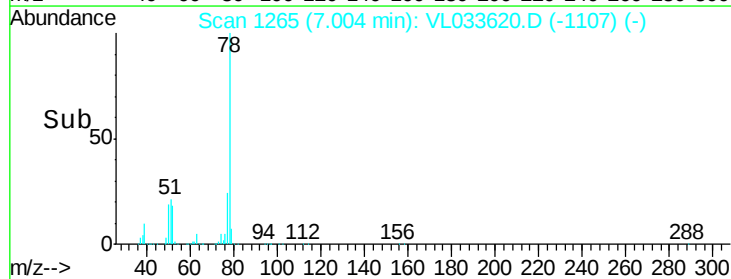
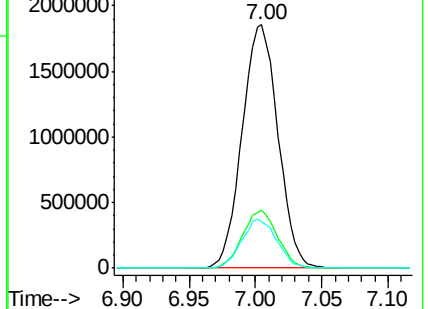
50 19.2 15.1 22.7

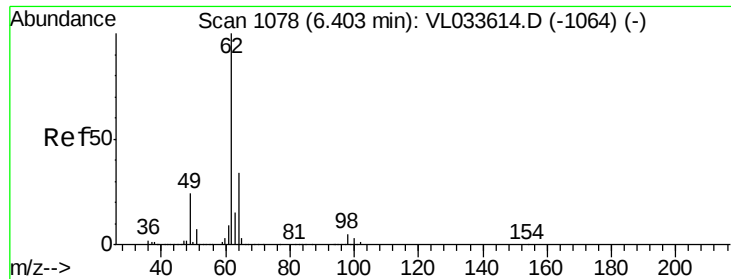


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





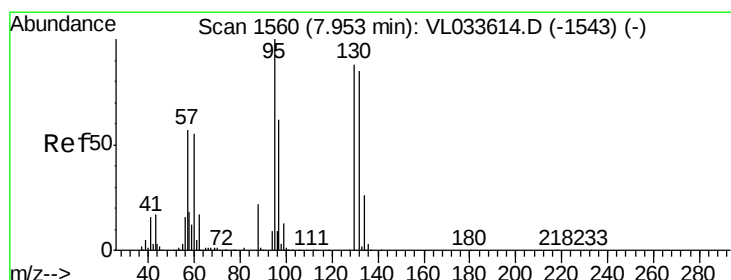
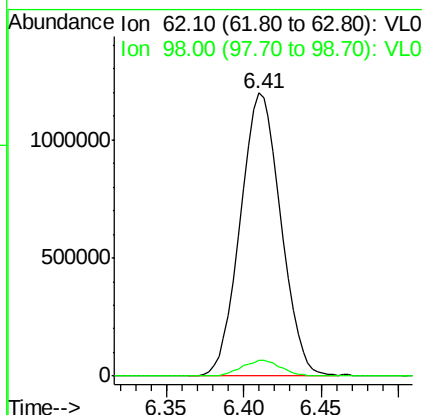
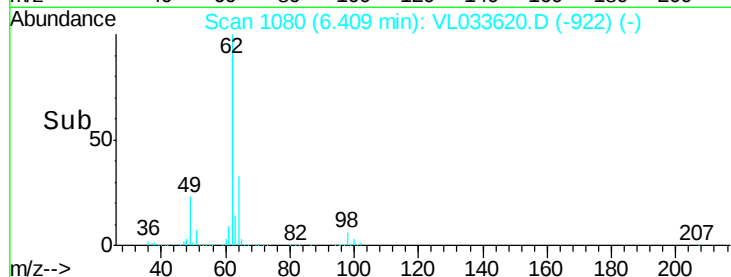
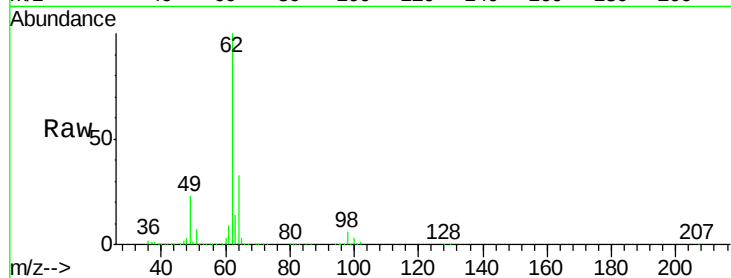
#37
 1,2-Dichloroethane
 Concen: 13.614 ppbv
 RT: 6.41 min Scan# 1080
 Delta R.T. 0.01 min
 Lab File: VL033620.D
 Acq: 1 May 2019 15:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 62 Resp: 2186285
 Ion Ratio Lower Upper
 62 100
 98 5.6 4.4 6.6

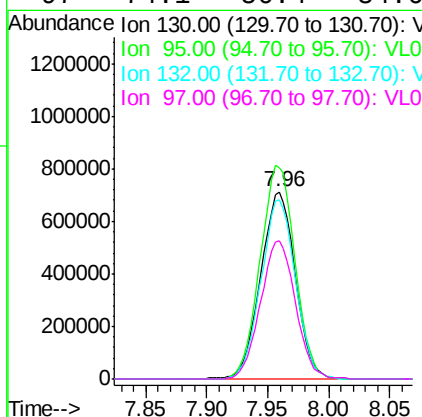
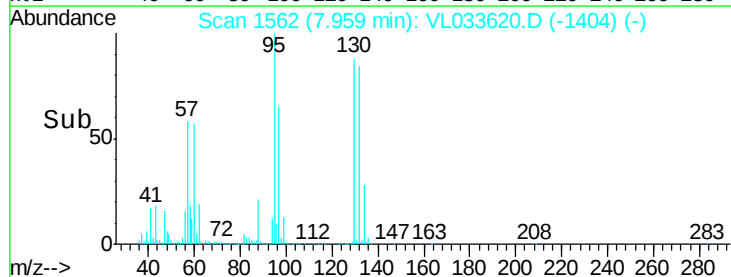
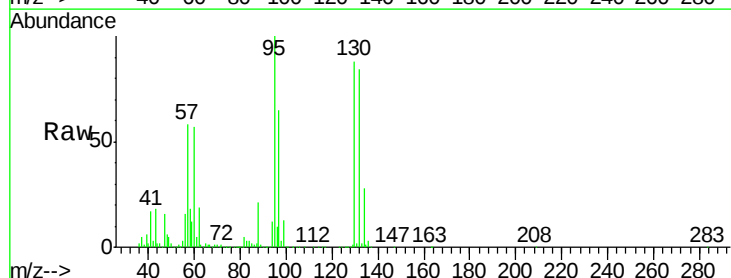
Manual Integrations
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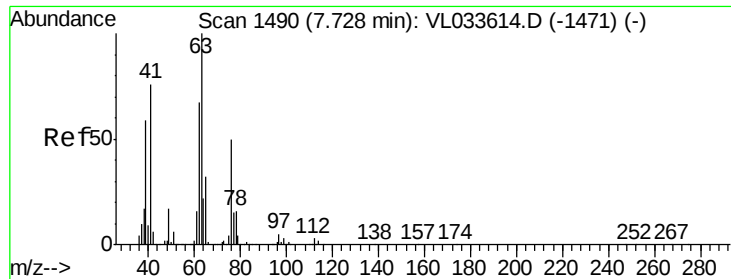
MMDadoda
 5/2/2019 4:04:17 PM



#38
 Trichloroethene
 Concen: 14.511 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. 0.01 min
 Lab File: VL033620.D
 Acq: 1 May 2019 15:51

Tgt Ion: 130 Resp: 1404948
 Ion Ratio Lower Upper
 130 100
 95 113.2 91.2 136.8
 132 95.6 77.8 116.8
 97 74.1 56.4 84.6





#39

1,2-Dichloropropane

Concen: 14.501 ppbv

RT: 7.73 min Scan# 1492

Delta R.T. 0.01 min

Lab File: VL033620.D

Acq: 1 May 2019 15:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 63 Resp: 1321613

Ion Ratio Lower Upper

63 100

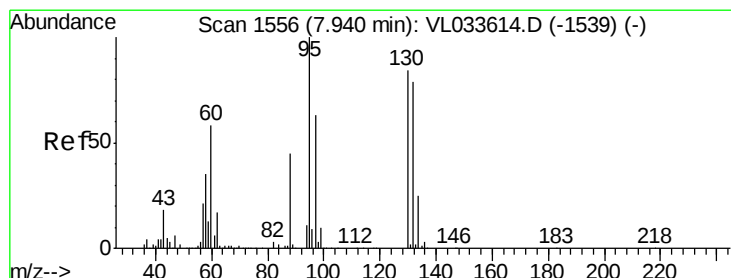
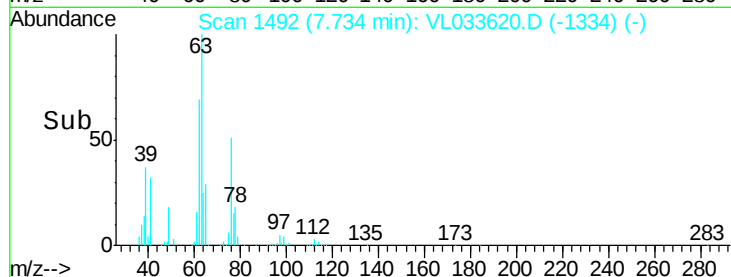
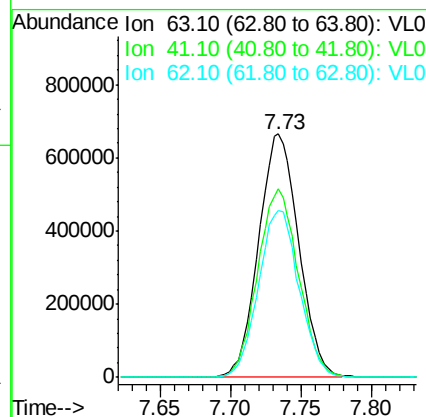
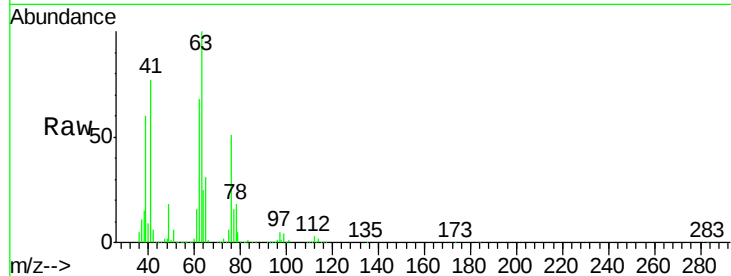
41 77.5 60.9 91.3

62 68.4 53.3 79.9

Manual Integrations
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#40

1,4-Dioxane

Concen: 13.418 ppbv

RT: 7.95 min Scan# 1558

Delta R.T. 0.01 min

Lab File: VL033620.D

Acq: 1 May 2019 15:51

Tgt Ion: 88 Resp: 496693

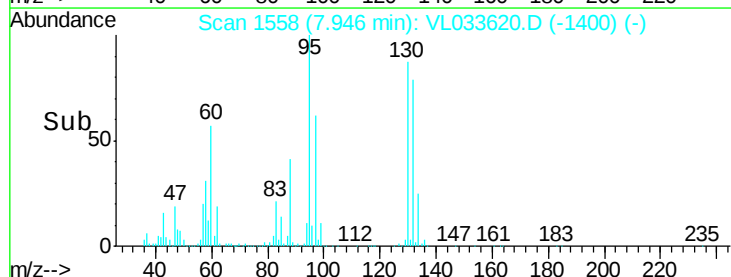
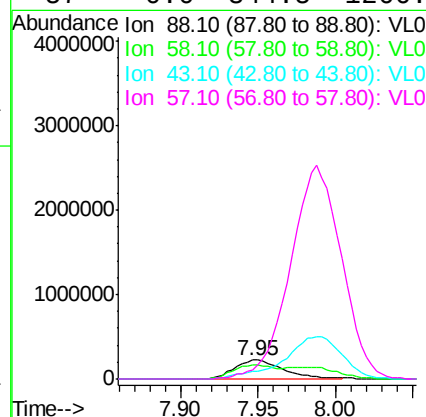
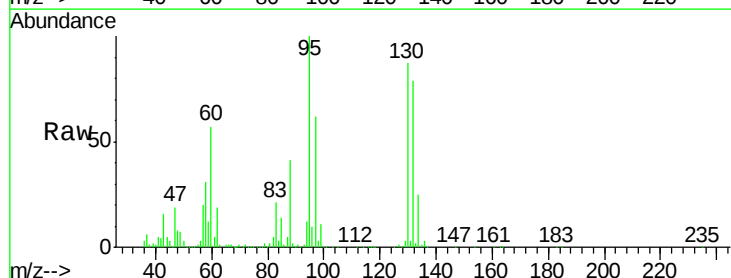
Ion Ratio Lower Upper

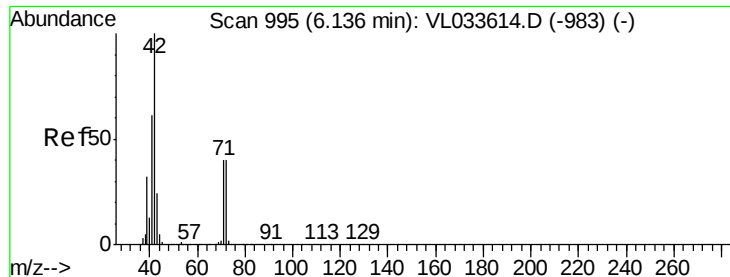
88 100

58 130.2 98.4 147.6

43 0.0 190.7 286.1#

57 0.0 844.5 1266.7#





#41

Tetrahydrofuran

Concen: 15.291 ppbv

RT: 6.14 min Scan# 997

Delta R.T. 0.01 min

Lab File: VL033620.D

Acq: 1 May 2019 15:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 42 Resp: 1422019

Ion Ratio Lower Upper

42 100

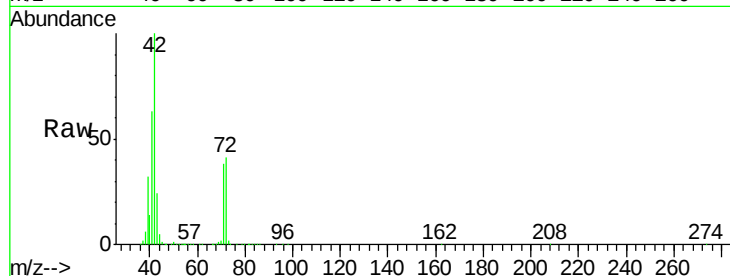
72 39.8 31.8 47.6

71 38.7 31.0 46.4

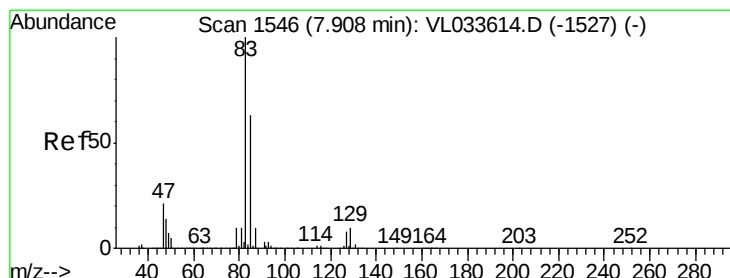
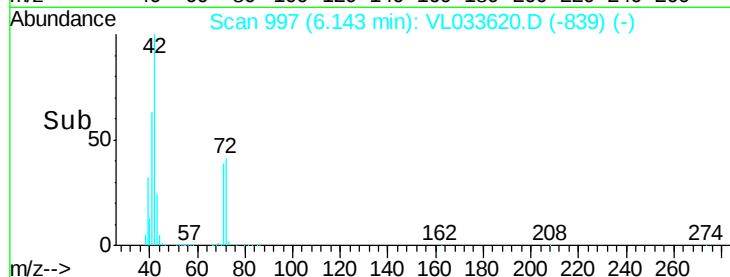
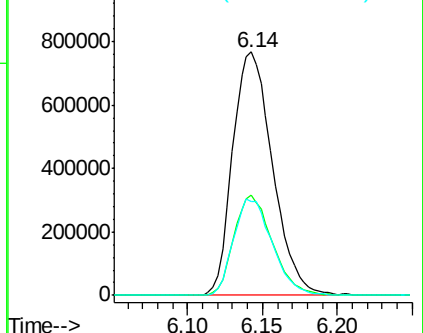
Manual Integrations
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5/2/2019 4:04:17 PM



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: 14.352 ppbv

RT: 7.91 min Scan# 1548

Delta R.T. 0.01 min

Lab File: VL033620.D

Acq: 1 May 2019 15:51

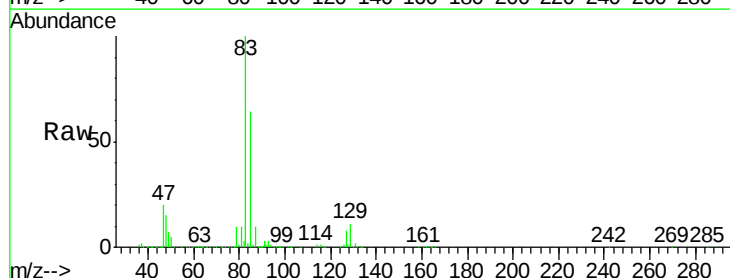
Tgt Ion: 83 Resp: 3119268

Ion Ratio Lower Upper

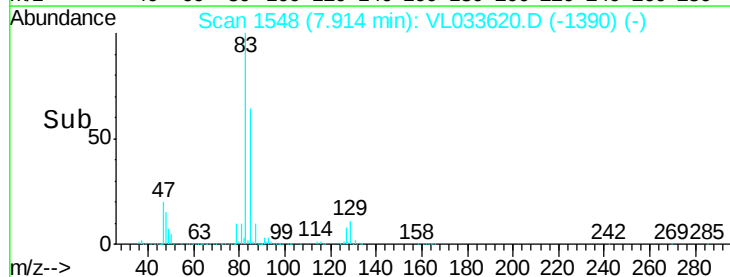
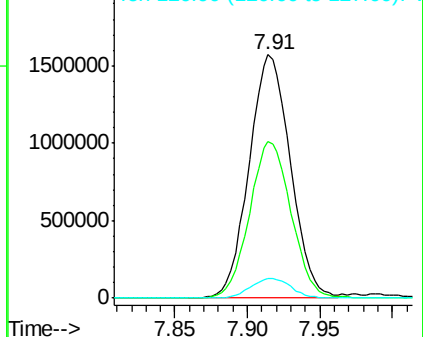
83 100

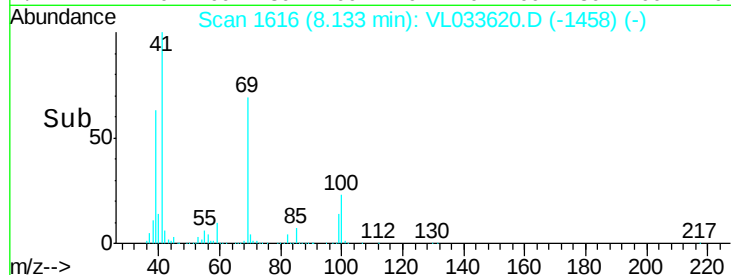
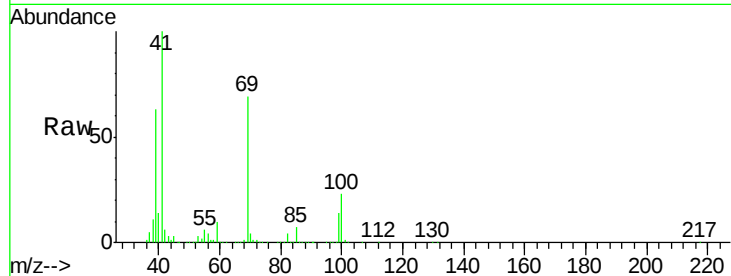
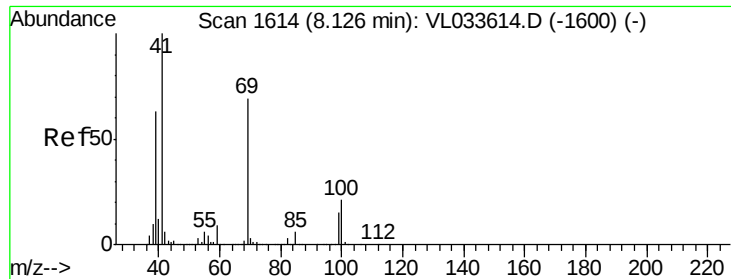
85 64.1 50.2 75.4

127 8.2 6.5 9.7



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





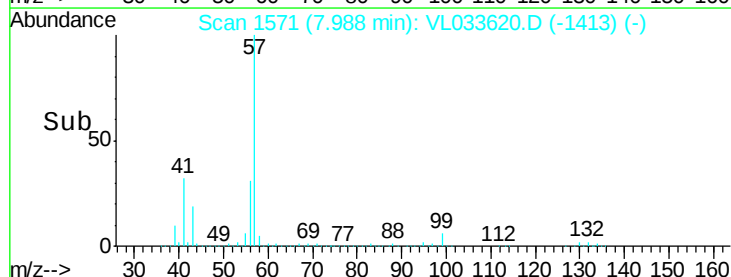
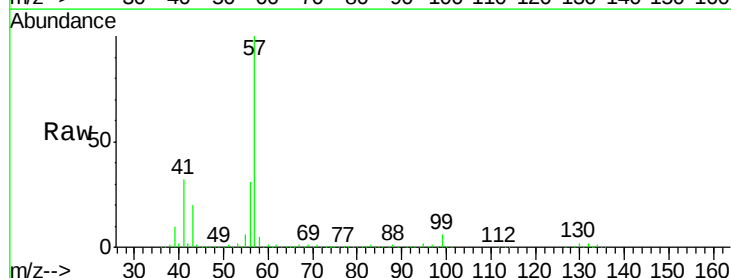
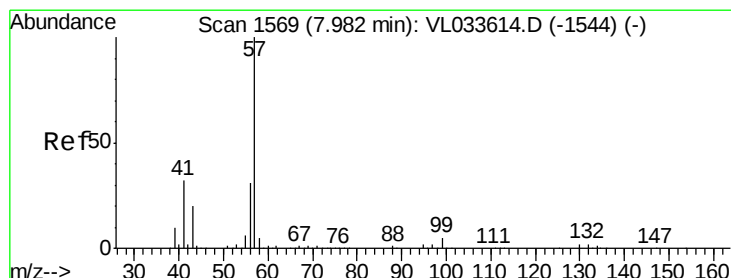
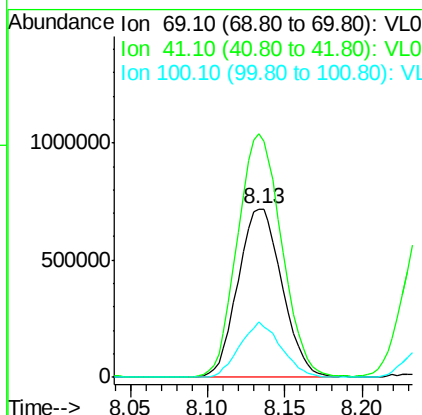
#43
Methvl Methacrilate
Concen: 15.548 ppbv
RT: 8.13 min Scan# 1616
Delta R.T. 0.01 min
Lab File: VL033620.D
Acq: 1 May 2019 15:51

Tot Ion: 69 Resp: 1423000
Ion Ratio Lower Upper
69 100
41 145.4 115.0 172.4
100 30.9 24.7 37.1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

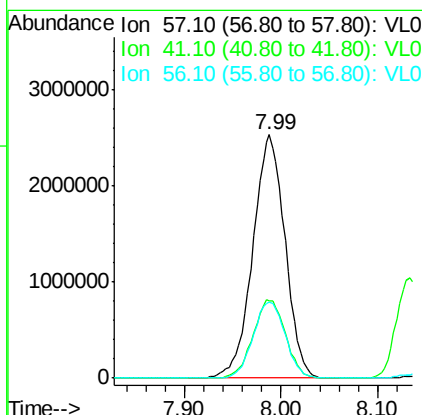
Manual Integrations
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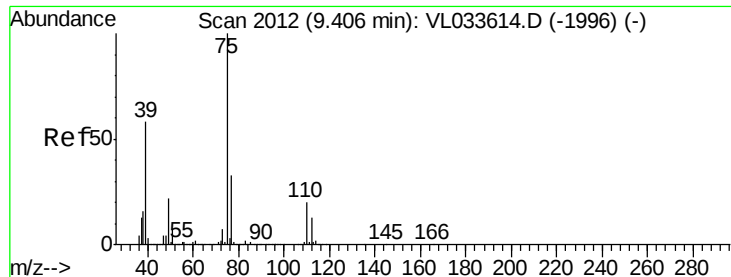
MMDadoda
5/2/2019 4:04:17 PM



#44
2,2,4-Trimethylpentane
Concen: 13.845 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. 0.01 min
Lab File: VL033620.D
Acq: 1 May 2019 15:51

Tgt Ion: 57 Resp: 5831290
Ion Ratio Lower Upper
57 100
41 32.4 25.4 38.2
56 31.4 24.6 37.0





#45

t-1,3-Dichloropropene

Concen: 17.599 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. 0.01 min

Lab File: VL033620.D

Acq: 1 May 2019 15:51

Tot Ion: 75 Resp: 2138730

Ion Ratio Lower Upper

75 100

77 31.8 26.0 39.0

Instrument :

MSVOA_L

ClientSampleId :

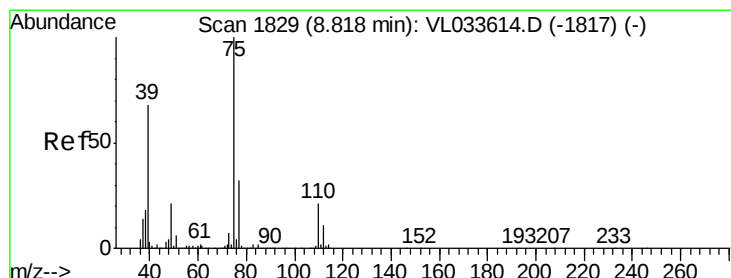
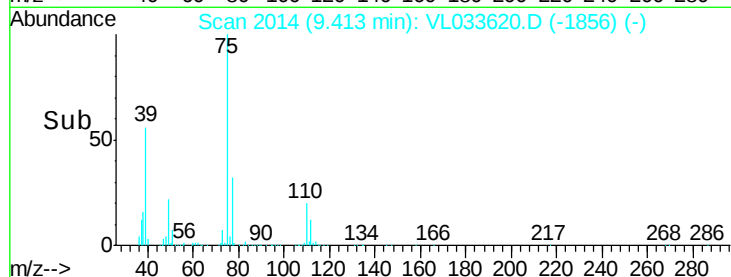
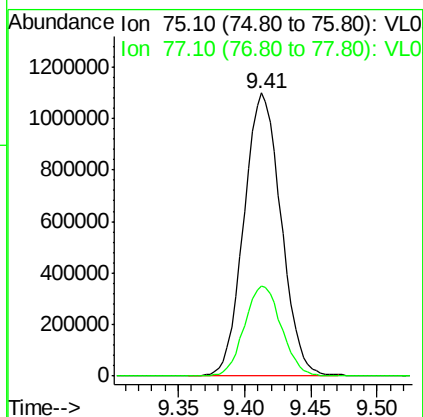
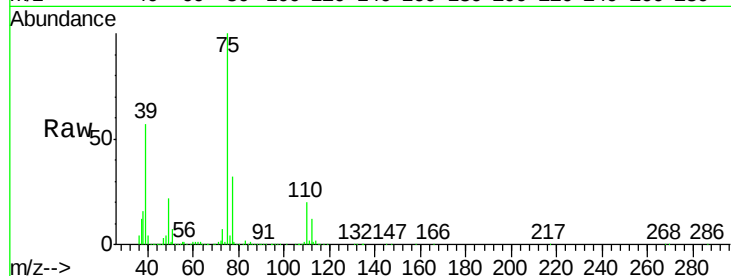
VSTDIC015

Manual Integrations

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#46

cis-1,3-Dichloropropene

Concen: 17.522 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VL033620.D

Acq: 1 May 2019 15:51

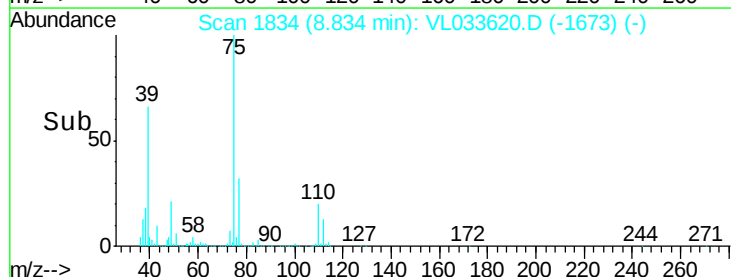
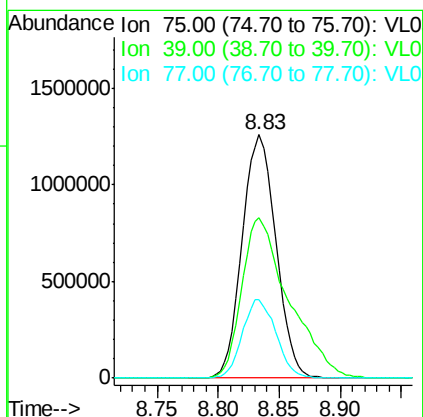
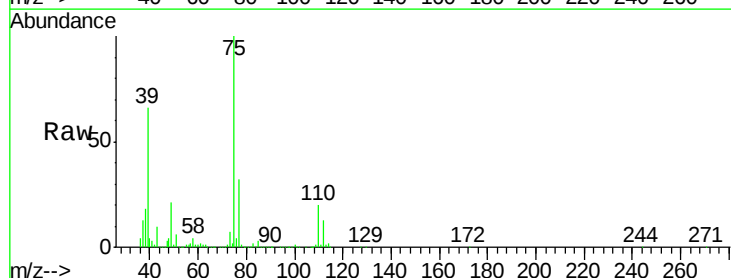
Tgt Ion: 75 Resp: 2402187

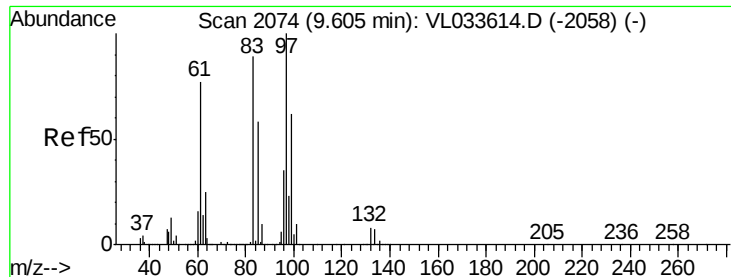
Ion Ratio Lower Upper

75 100

39 66.1 54.6 82.0

77 32.1 25.7 38.5





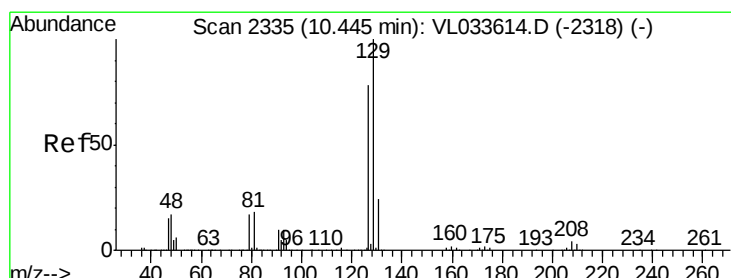
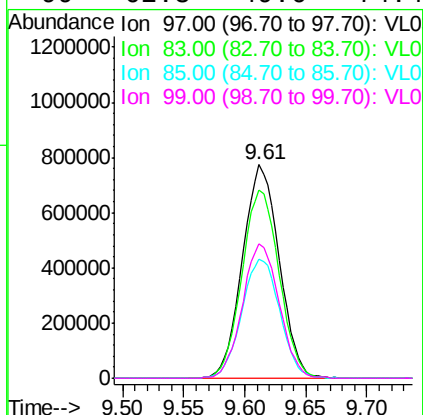
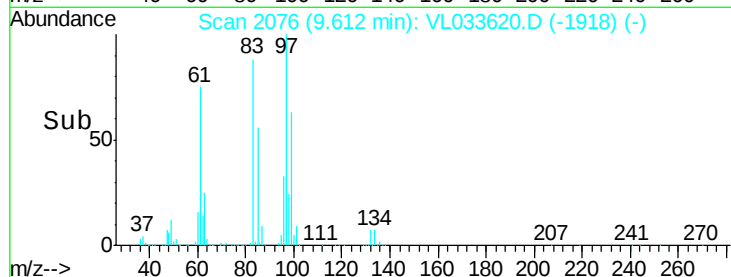
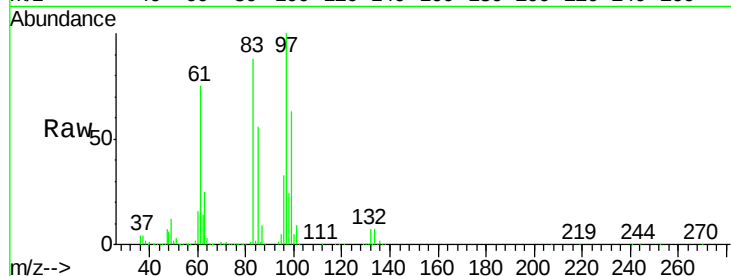
#47
 1,1,2-Trichloroethane
 Concen: 13.523 ppbv
 RT: 9.61 min Scan# 2076
 Delta R.T. 0.01 min
 Lab File: VL033620.D
 Acq: 1 May 2019 15:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
97	100		
83	88.2	71.4	107.0
85	55.9	46.0	69.0
99	62.8	49.6	74.4

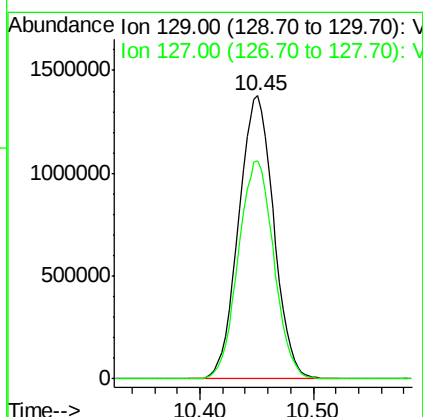
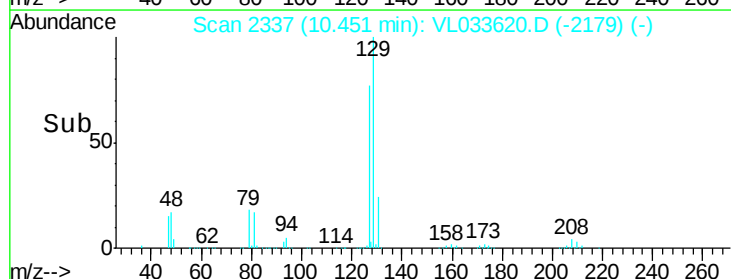
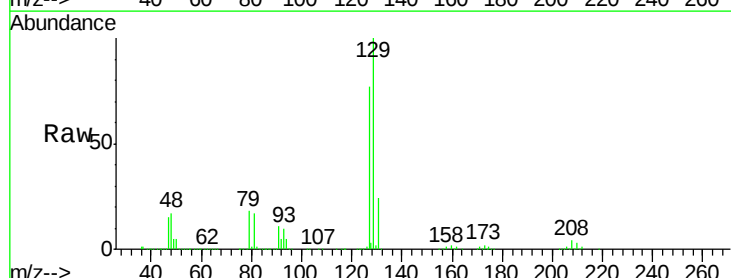
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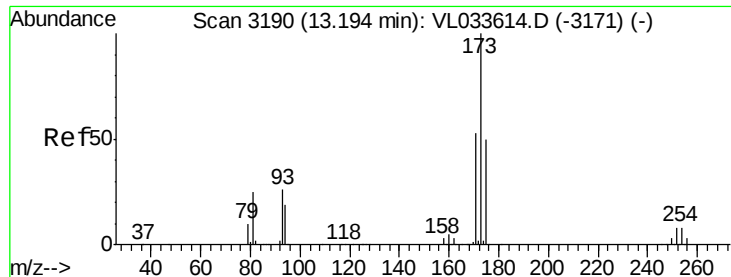
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#48
 Dibromochloromethane
 Concen: 14.783 ppbv
 RT: 10.45 min Scan# 2337
 Delta R.T. 0.01 min
 Lab File: VL033620.D
 Acq: 1 May 2019 15:51

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.0	39.2	117.6





#49

Bromoform

Concen: 16.339 ppbv

RT: 13.20 min Scan# 3192

Delta R.T. 0.01 min

Lab File: VL033620.D

Acq: 1 May 2019 15:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:173 Resp: 2518591

Ion Ratio Lower Upper

173 100

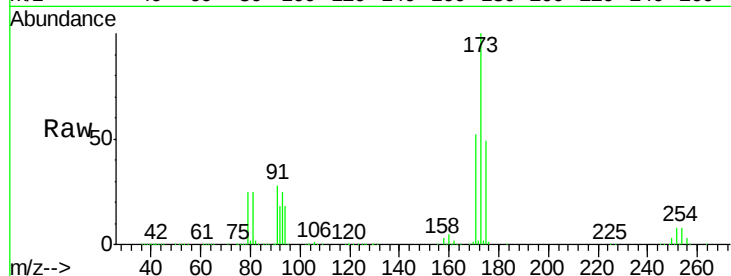
175 48.5 39.0 58.6

171 51.8 41.6 62.4

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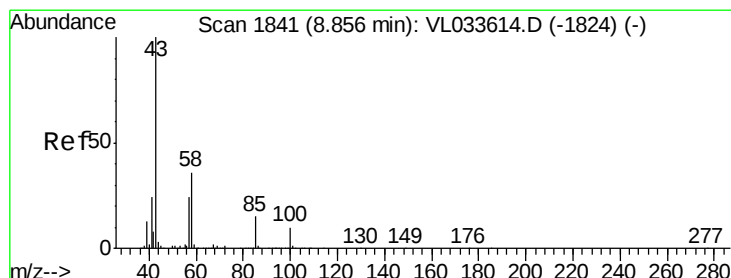
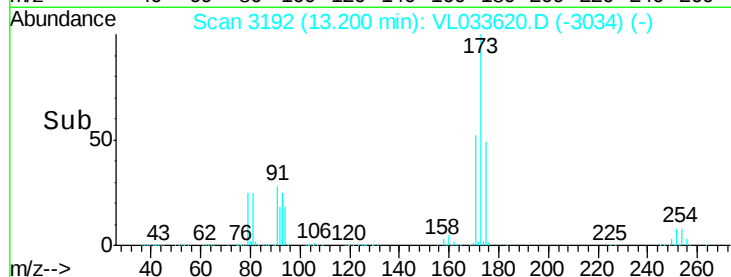
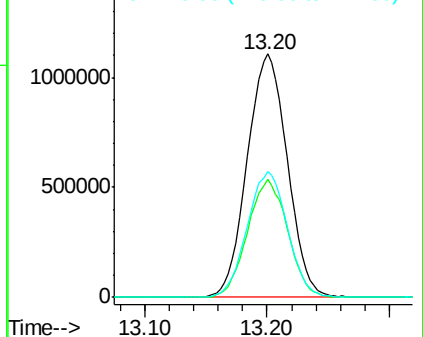
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 15.246 ppbv

RT: 8.86 min Scan# 1843

Delta R.T. 0.01 min

Lab File: VL033620.D

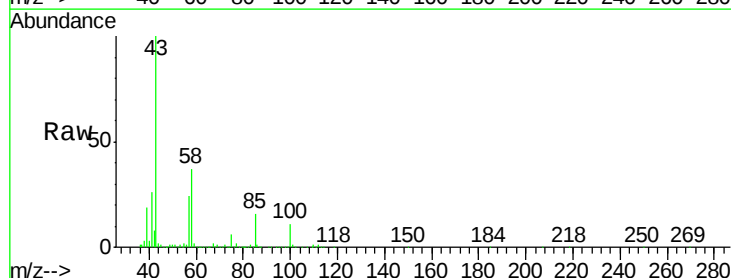
Acq: 1 May 2019 15:51

Tgt Ion: 43 Resp: 4160007

Ion Ratio Lower Upper

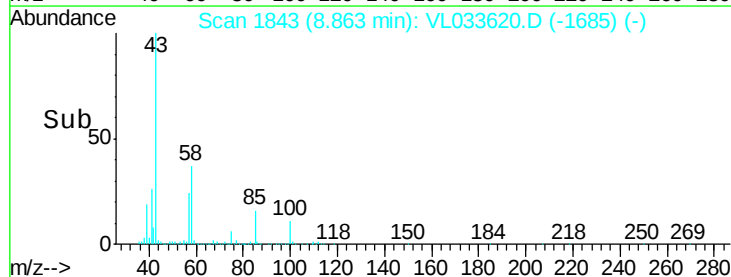
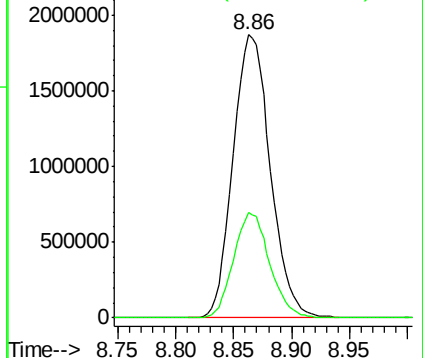
43 100

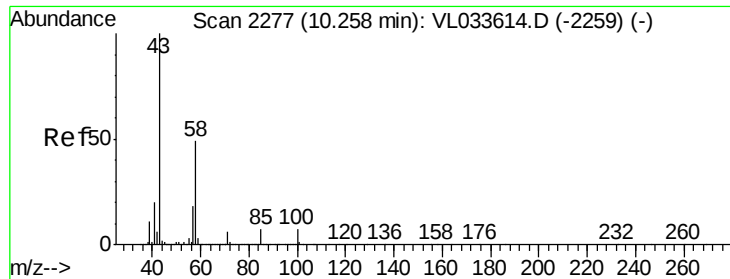
58 36.2 28.6 42.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





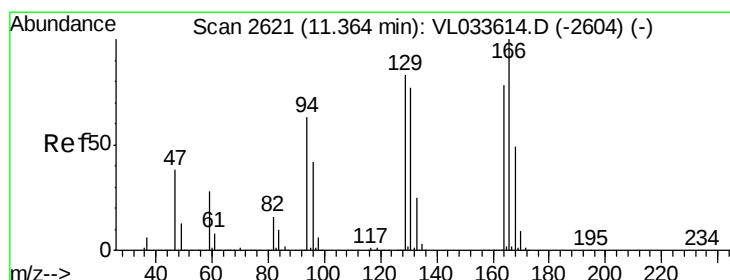
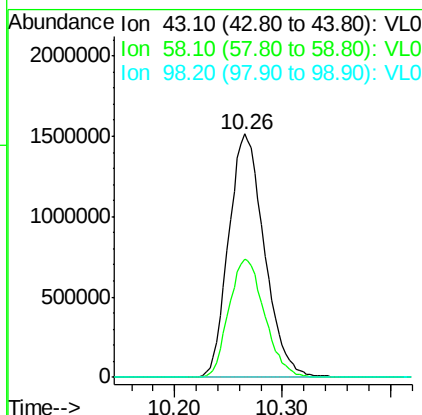
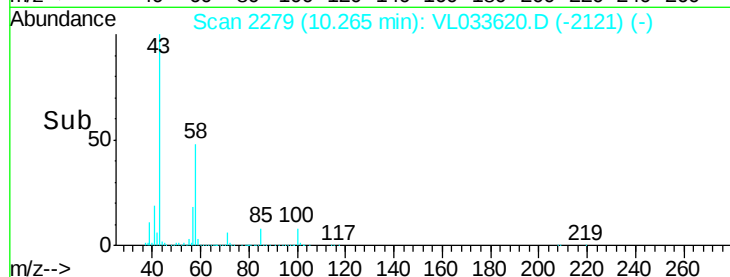
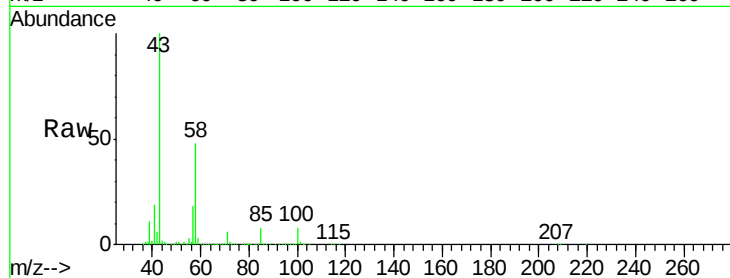
#51
2-Hexanone
Concen: 14.591 ppbv
RT: 10.26 min Scan# 2279
Delta R.T. 0.01 min
Lab File: VL033620.D
Acq: 1 May 2019 15:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 3495516
Ion Ratio Lower Upper
43 100
58 48.5 38.5 57.7
98 0.3 0.3 0.5

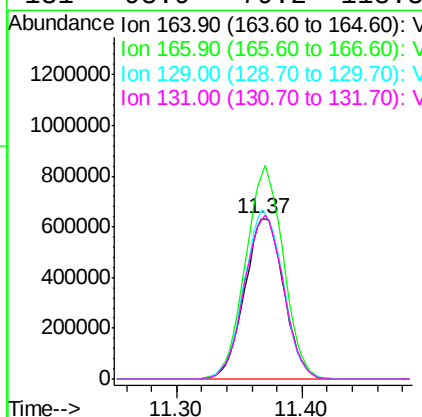
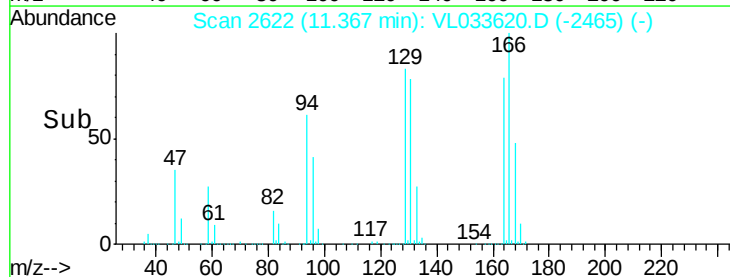
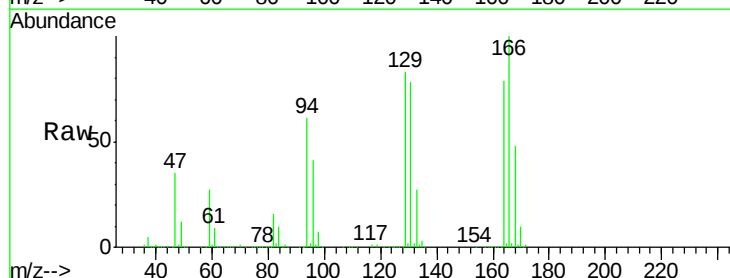
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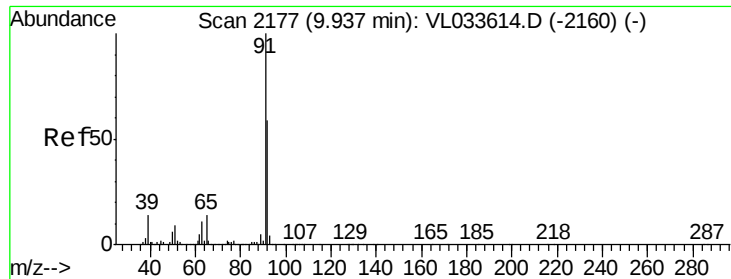
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#52
Tetrachloroethene
Concen: 14.782 ppbv
RT: 11.37 min Scan# 2622
Delta R.T. 0.00 min
Lab File: VL033620.D
Acq: 1 May 2019 15:51

Tgt Ion: 164 Resp: 1373689
Ion Ratio Lower Upper
164 100
166 126.4 102.2 153.4
129 105.5 84.4 126.6
131 98.9 79.2 118.8





#53

Toluene

Concen: 14.738 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. 0.01 min

Lab File: VL033620.D

Acq: 1 May 2019 15:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 4495119

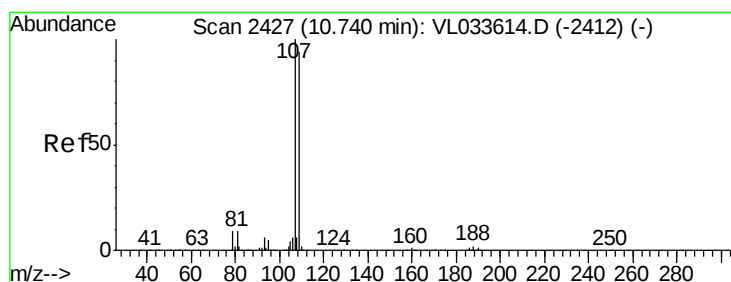
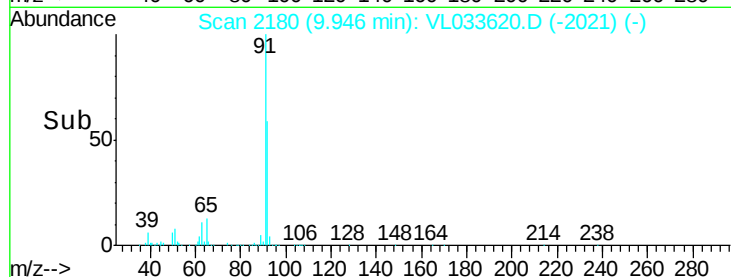
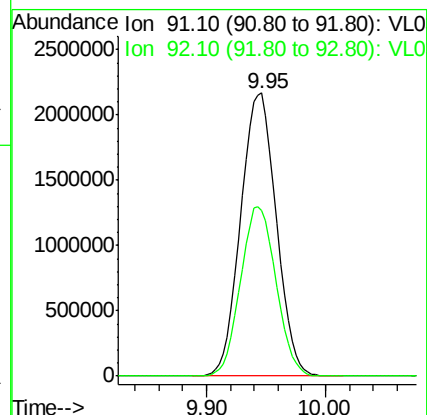
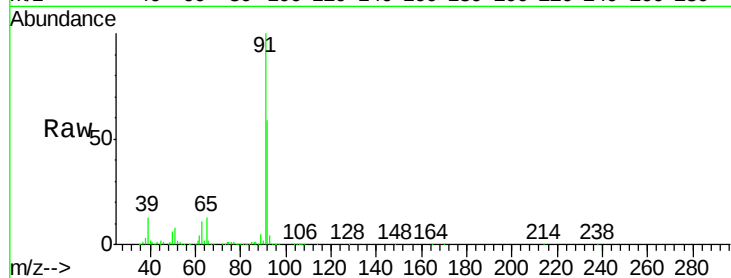
Ion Ratio Lower Upper

91 100

92 59.8 47.8 71.6

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#54

1,2-Dibromoethane

Concen: 14.809 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. 0.02 min

Lab File: VL033620.D

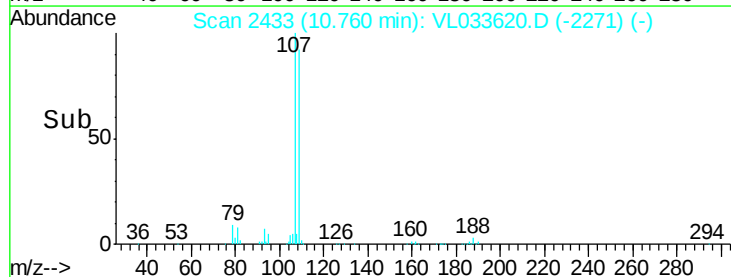
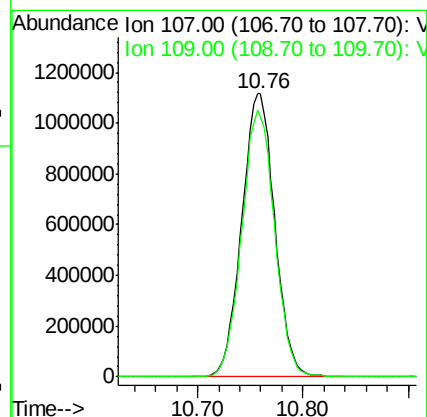
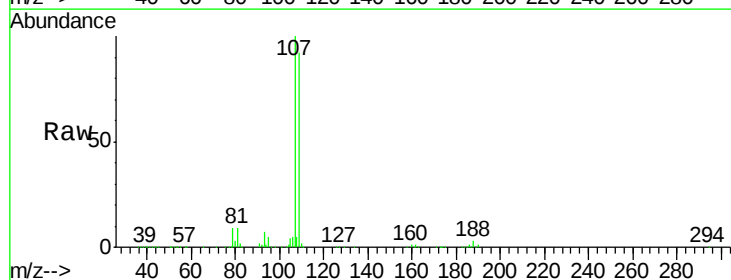
Acq: 1 May 2019 15:51

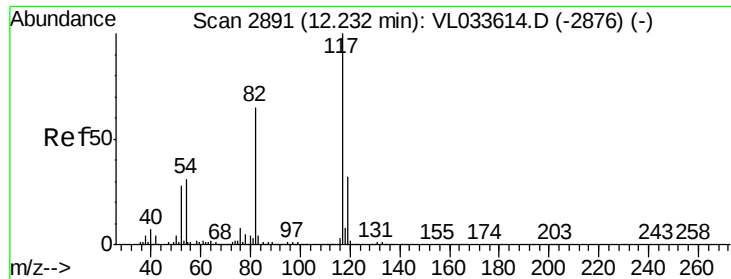
Tgt Ion:107 Resp: 2420081

Ion Ratio Lower Upper

107 100

109 92.1 75.1 112.7





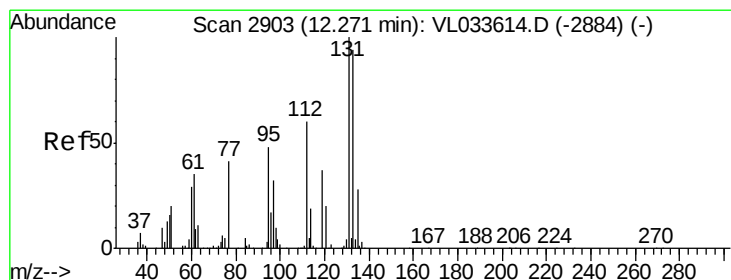
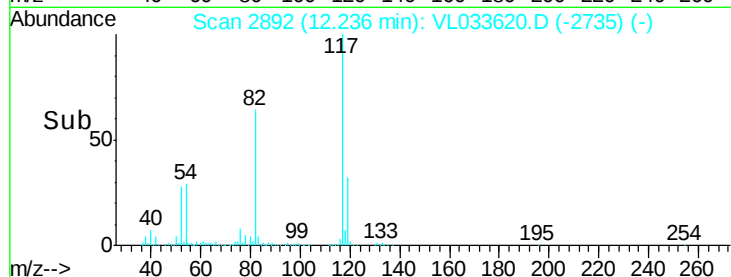
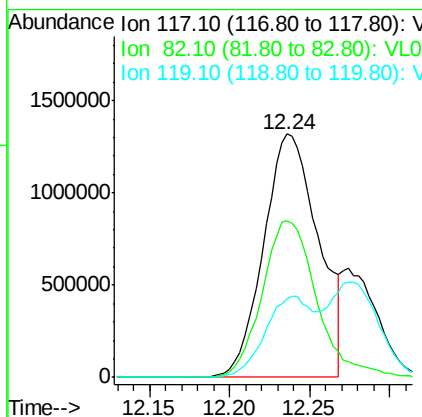
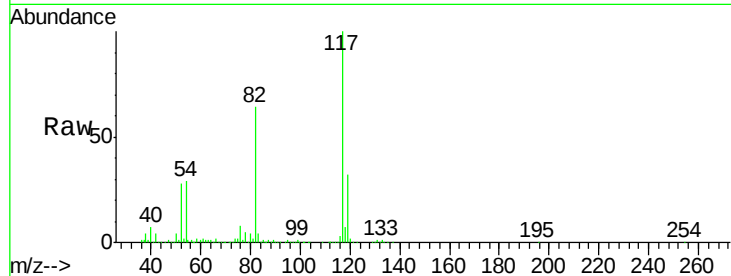
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. 0.00 min
Lab File: VL033620.D
Acq: 1 May 2019 15:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 3143626
Ion Ratio Lower Upper
117 100
82 64.3 52.6 78.8
119 0.0 28.3 42.5#

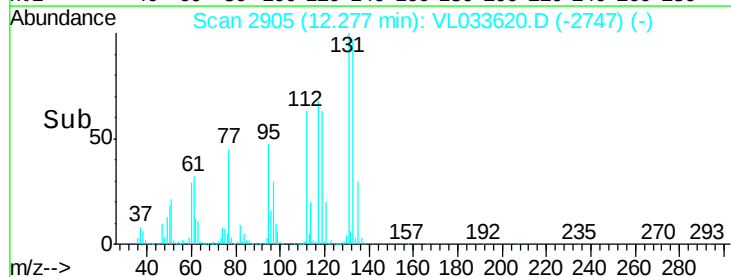
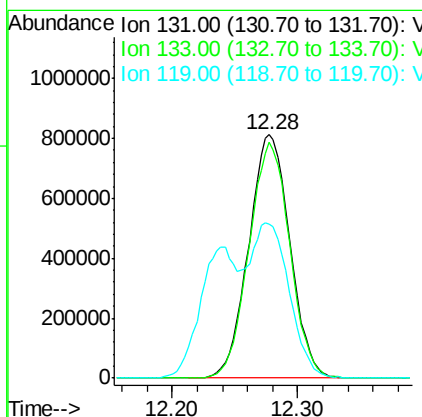
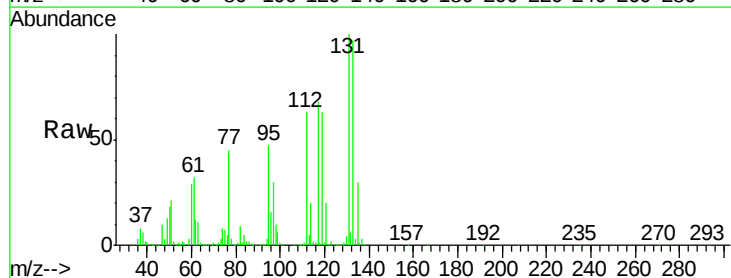
Manual Integrations
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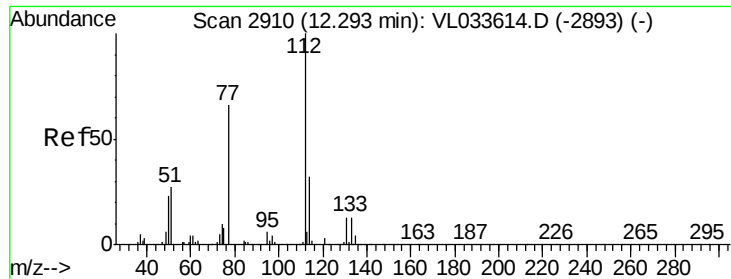
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 13.522 ppbv
RT: 12.28 min Scan# 2905
Delta R.T. 0.01 min
Lab File: VL033620.D
Acq: 1 May 2019 15:51

Tgt Ion:131 Resp: 1856230
Ion Ratio Lower Upper
131 100
133 95.8 76.4 114.6
119 111.7 40.9 61.3#





#57

Chlorobenzene

Concen: 13.263 ppbv

RT: 12.30 min Scan# 2912

Delta R.T. 0.01 min

Lab File: VL033620.D

Acq: 1 May 2019 15:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 112 Resp: 3242780

Ion Ratio Lower Upper

112 100

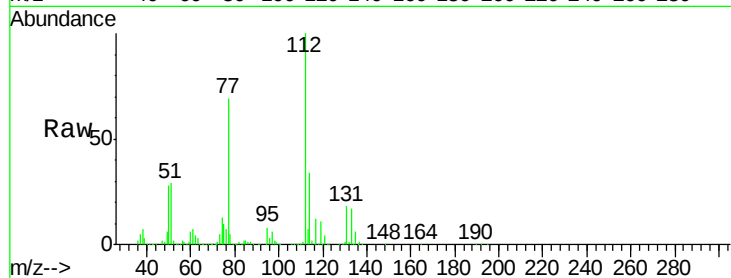
77 68.6 53.6 80.4

114 33.7 29.1 35.5

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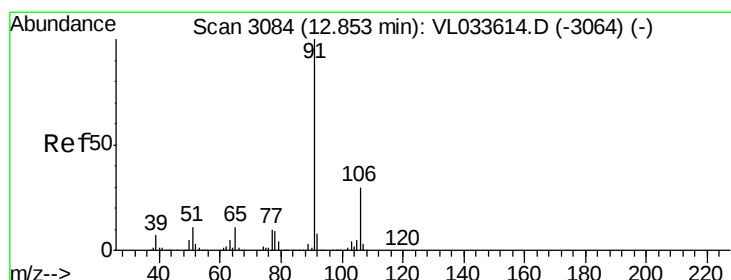
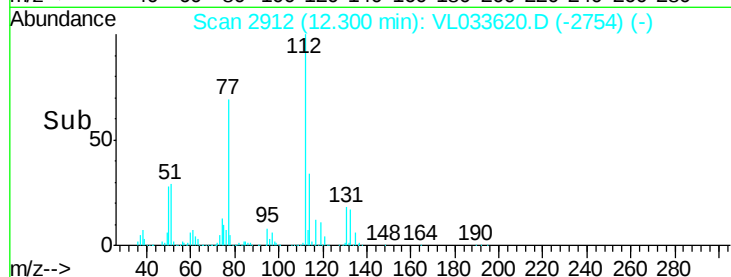
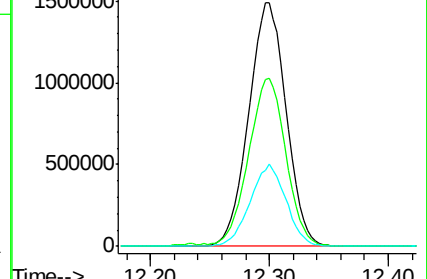
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 16.084 ppbv

RT: 12.86 min Scan# 3087

Delta R.T. 0.01 min

Lab File: VL033620.D

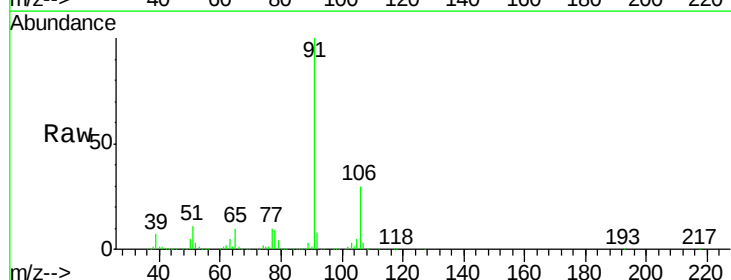
Acq: 1 May 2019 15:51

Tgt Ion: 91 Resp: 5884351

Ion Ratio Lower Upper

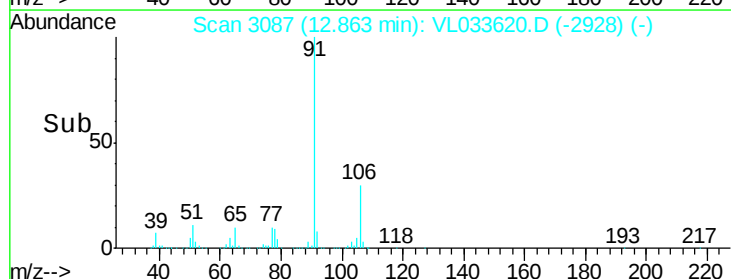
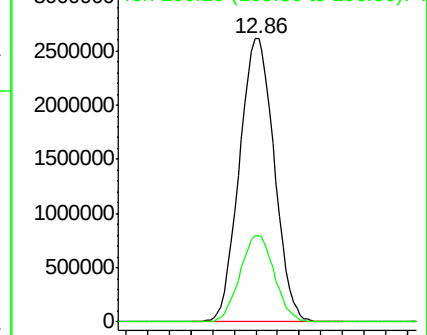
91 100

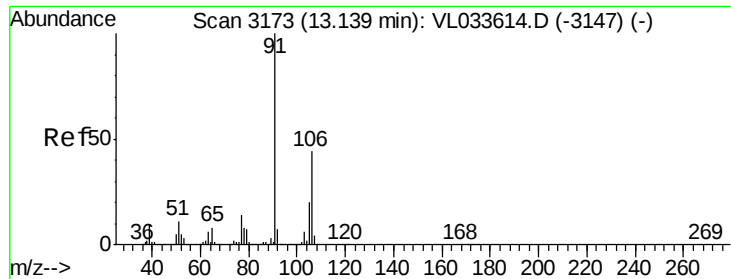
106 30.4 23.6 35.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





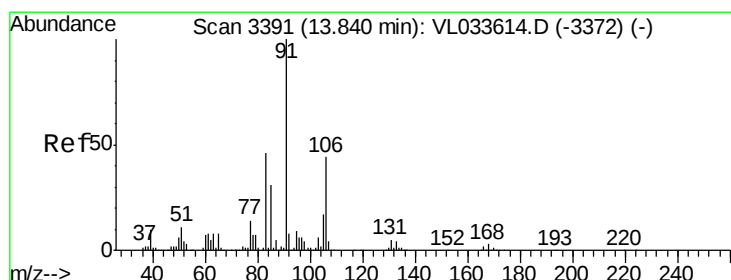
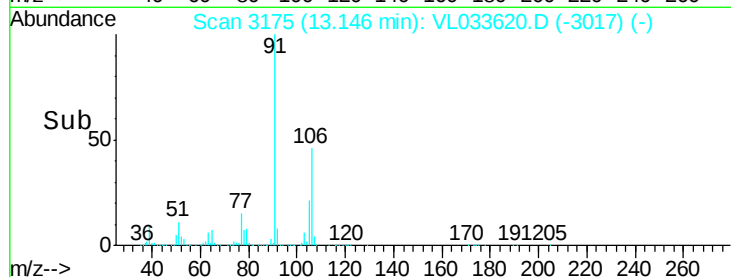
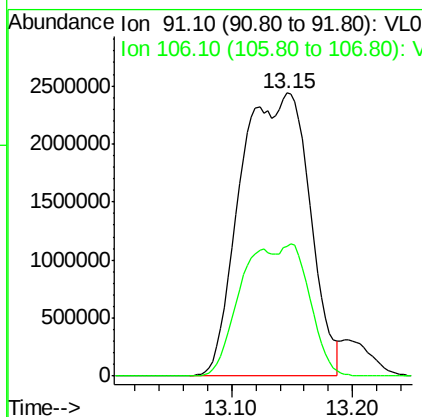
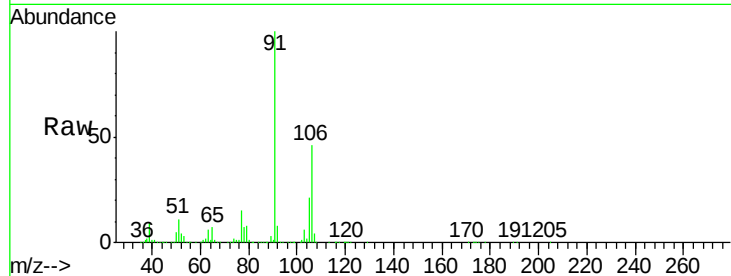
#59
m/p-Xylene
Concen: 30.491 ppbv m
RT: 13.15 min Scan# 3175
Delta R.T. 0.01 min
Lab File: VL033620.D
Acq: 1 May 2019 15:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp: 9642683
Ion Ratio Lower Upper
91 100
106 45.7 0.0 0.0#

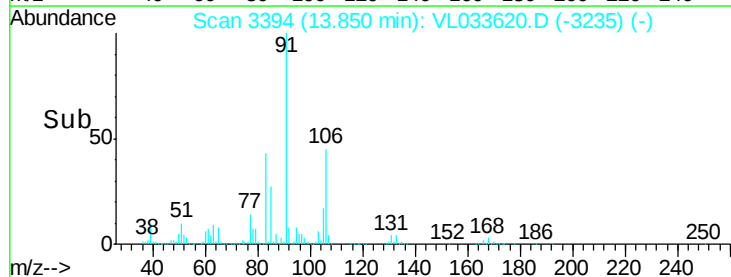
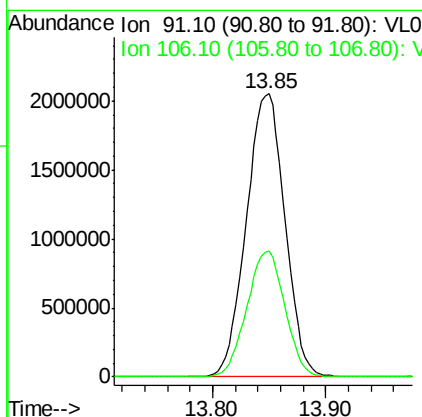
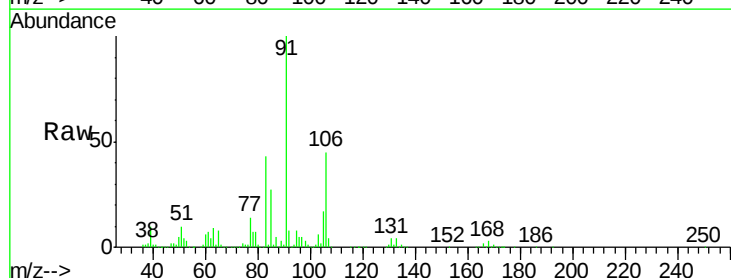
Manual Integrations
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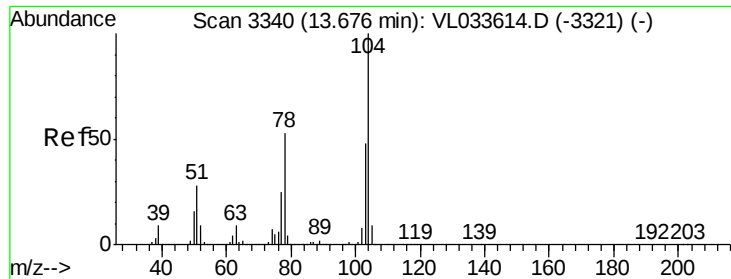
MMDadoda
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#60
o-Xylene
Concen: 15.292 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. 0.01 min
Lab File: VL033620.D
Acq: 1 May 2019 15:51

Tgt Ion: 91 Resp: 4860409
Ion Ratio Lower Upper
91 100
106 44.0 21.8 65.4





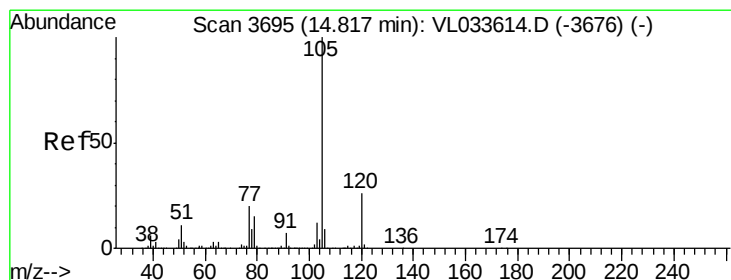
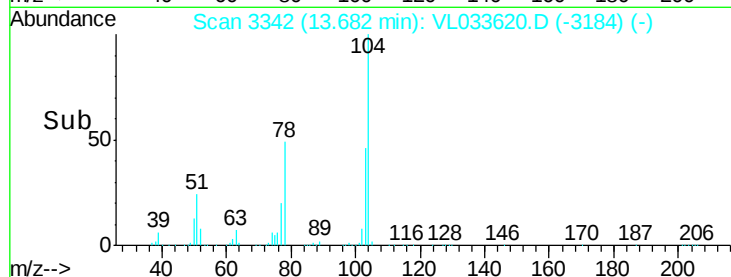
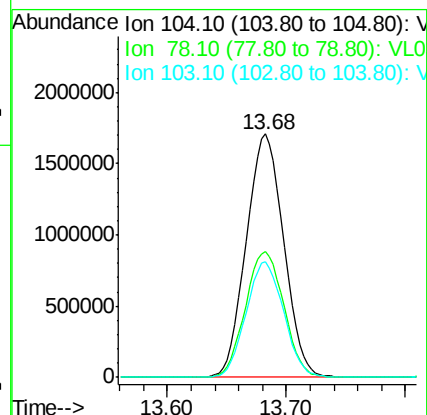
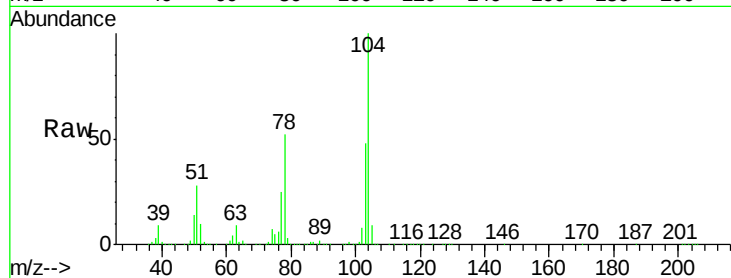
#61
Stvrene
Concen: 17.123 ppbv
RT: 13.68 min Scan# 3342
Delta R.T. 0.01 min
Lab File: VL033620.D
Acq: 1 May 2019 15:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.1	42.7	64.1
103	47.7	37.8	56.6

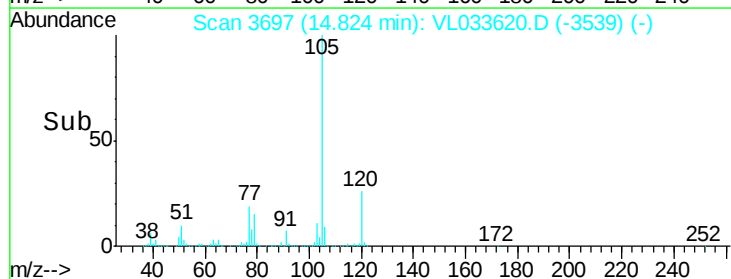
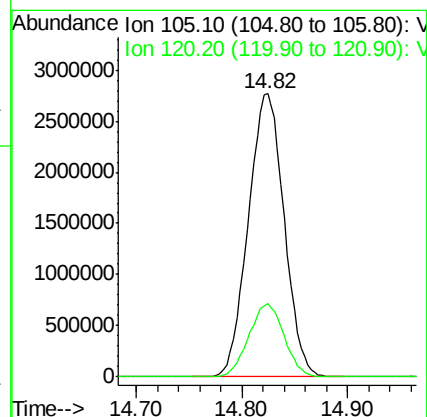
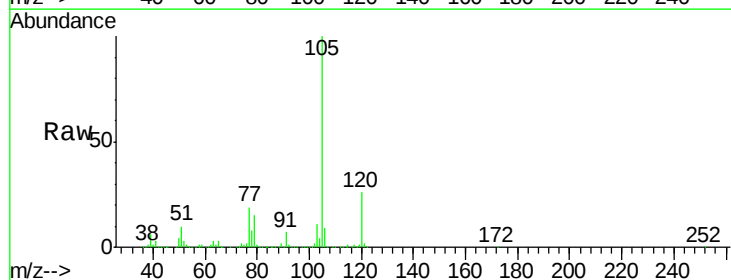
Manual Integrations
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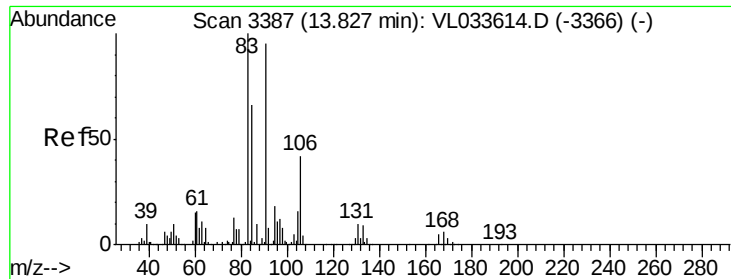
MMDadoda
5/2/2019 4:04:17 PM



#62
Isopropylbenzene
Concen: 15.409 ppbv
RT: 14.82 min Scan# 3697
Delta R.T. 0.01 min
Lab File: VL033620.D
Acq: 1 May 2019 15:51

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.5	20.3	30.5





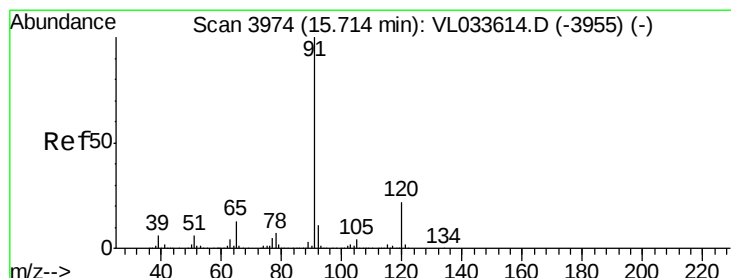
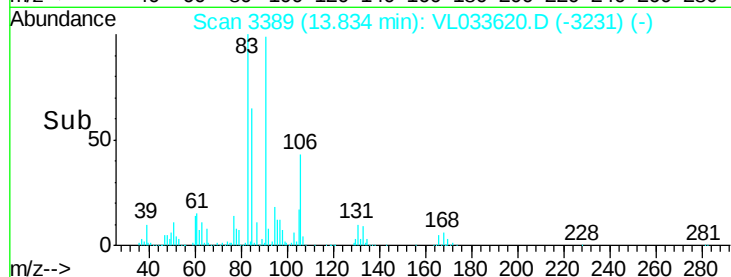
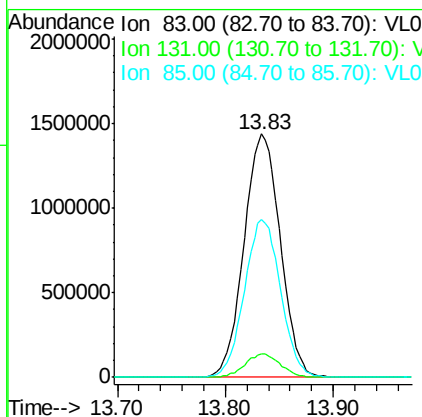
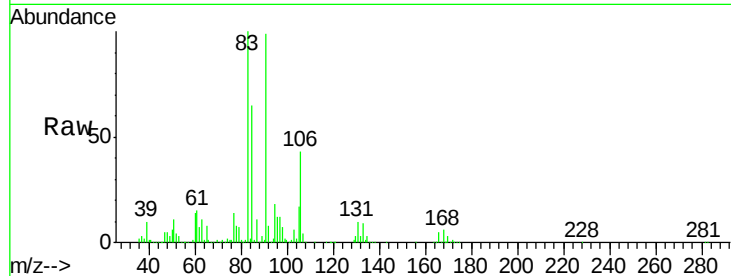
#63
 1,1,2,2-Tetrachloroethane
 Concen: 13.523 ppbv
 RT: 13.83 min Scan# 3389
 Delta R.T. 0.01 min
 Lab File: VL033620.D
 Acq: 1 May 2019 15:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	83	Resp	3366161
Ion Ratio	Lower	Upper	
83	100		
131	9.4	4.8	14.4
85	64.8	32.3	96.8

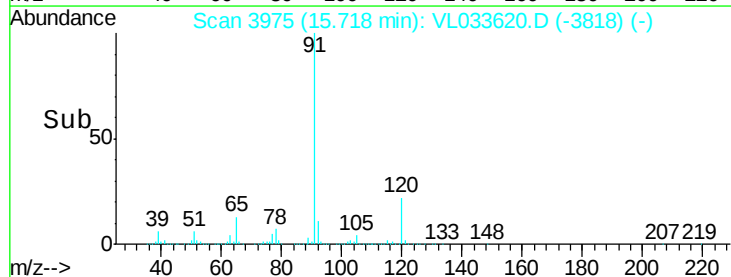
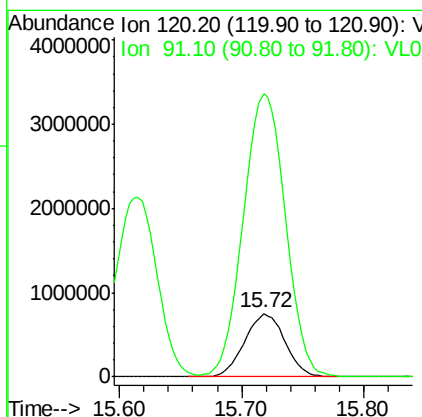
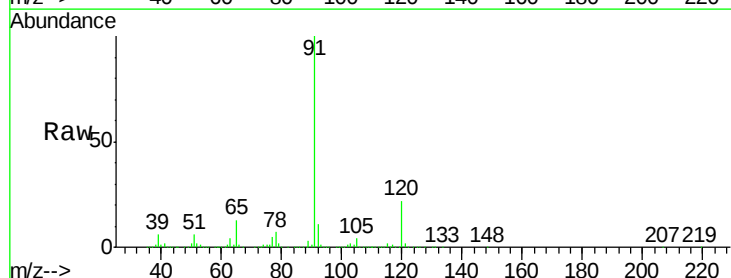
Manual Integrations
 APPROVED

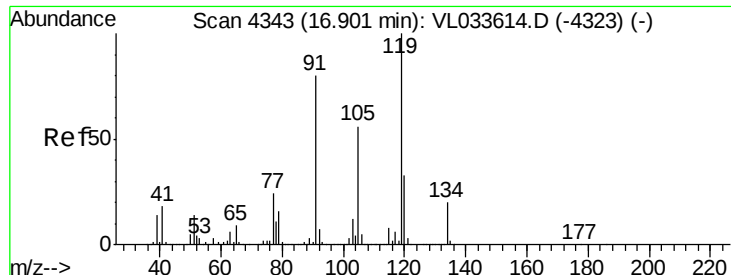
MMDadoda
 5/2/2019 4:04:17 PM



#64
 n-propylbenzene
 Concen: 15.617 ppbv
 RT: 15.72 min Scan# 3975
 Delta R.T. 0.00 min
 Lab File: VL033620.D
 Acq: 1 May 2019 15:51

Tgt Ion	120	Resp	1720820
Ion Ratio	Lower	Upper	
120	100		
91	467.5	380.2	570.2





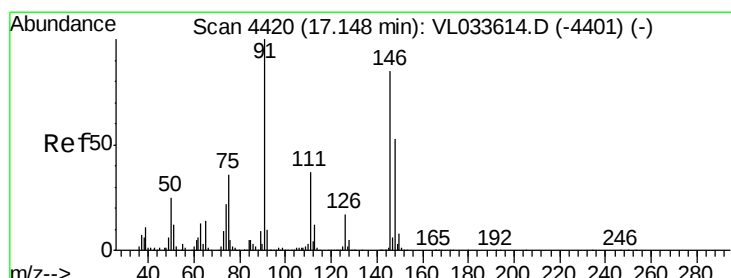
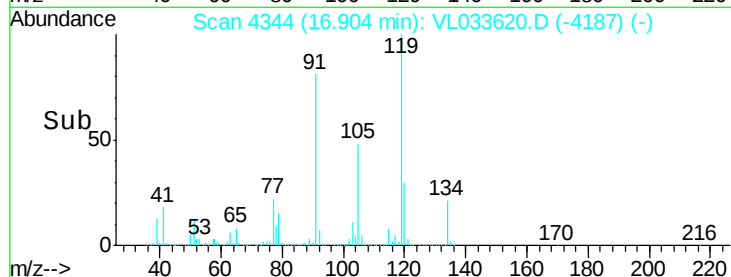
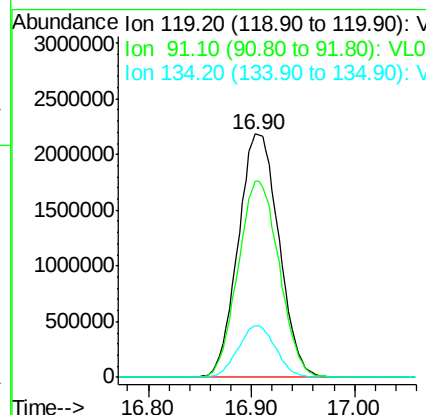
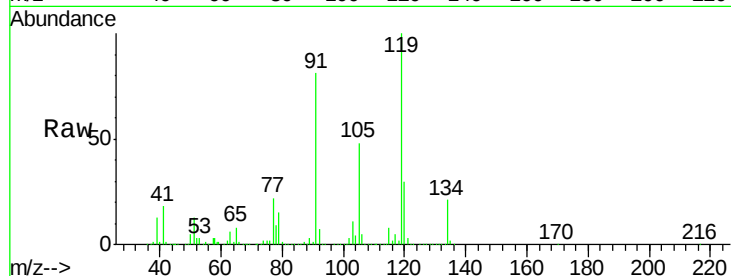
#65
tert-Butylbenzene
Concen: 15.057 ppbv
RT: 16.90 min Scan# 4344
Delta R.T. 0.00 min
Lab File: VL033620.D
Acq: 1 May 2019 15:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 119 Resp: 5981316
Ion Ratio Lower Upper
119 100
91 81.6 66.1 99.1
134 19.7 15.6 23.4

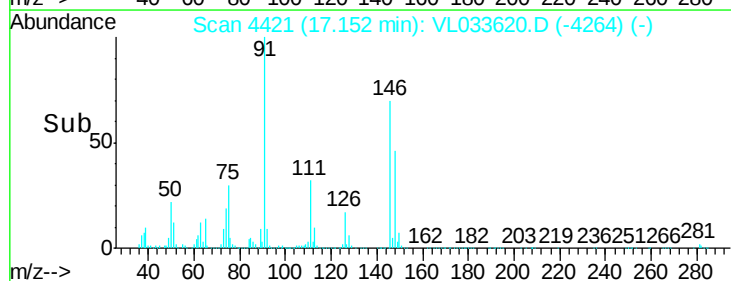
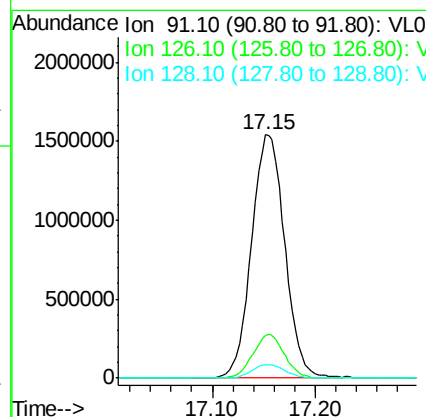
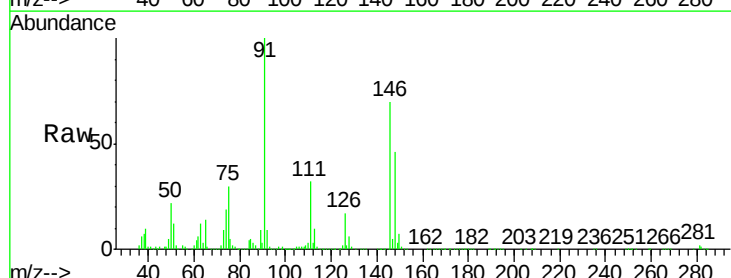
Manual Integrations
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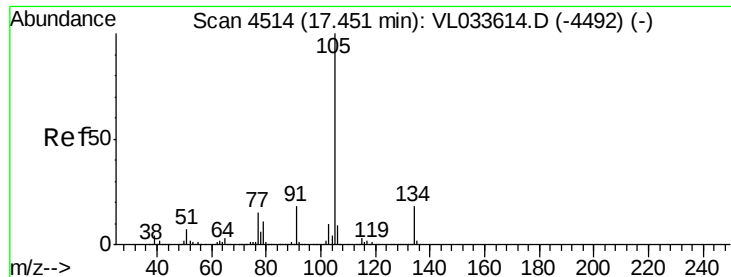
MMDadoda
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#66
Benzyl Chloride
Concen: 19.034 ppbv
RT: 17.15 min Scan# 4421
Delta R.T. 0.00 min
Lab File: VL033620.D
Acq: 1 May 2019 15:51

Tgt Ion: 91 Resp: 3435435
Ion Ratio Lower Upper
91 100
126 17.0 13.4 20.2
128 5.5 4.3 6.5





#67

sec-Butylbenzene

Concen: 14.952 ppbv

RT: 17.46 min Scan# 4516

Delta R.T. 0.01 min

Lab File: VL033620.D

Acq: 1 May 2019 15:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 8341419

Ion Ratio Lower Upper

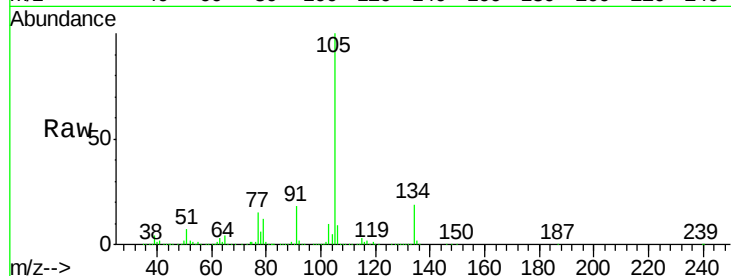
105 100

134 18.7 14.6 21.8

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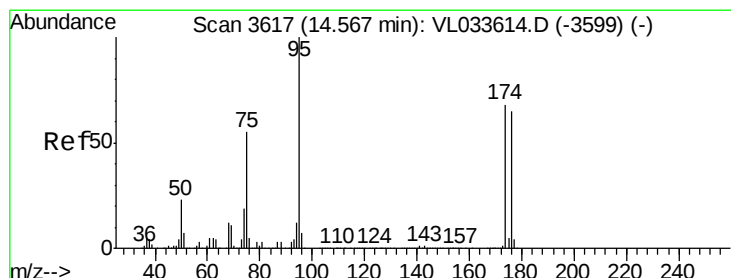
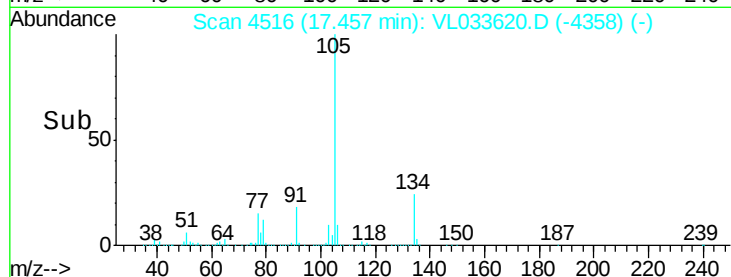
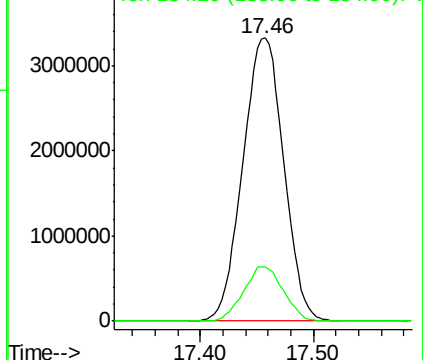
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.063 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. 0.01 min

Lab File: VL033620.D

Acq: 1 May 2019 15:51

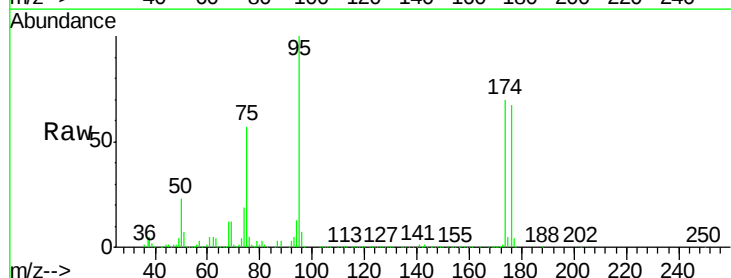
Tgt Ion: 95 Resp: 2426157

Ion Ratio Lower Upper

95 100

174 68.6 53.9 80.9

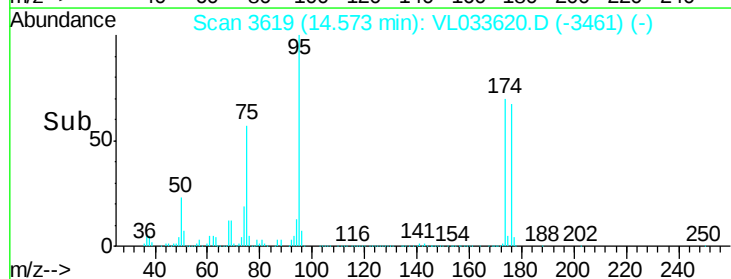
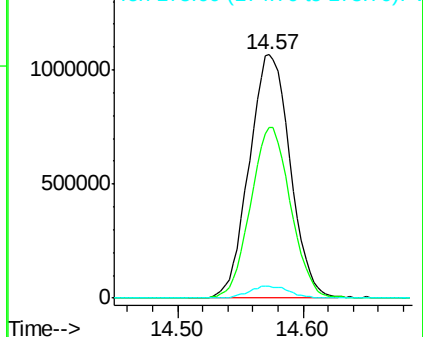
175 4.9 4.0 6.0

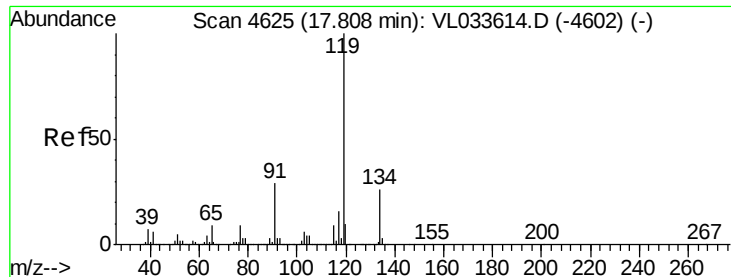


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





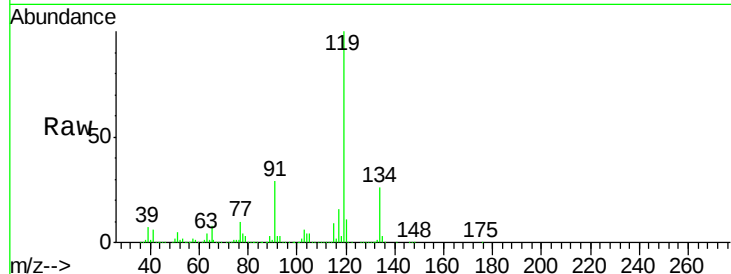
#69
 p-Isopropyltoluene
 Concen: 15.322 ppbv
 RT: 17.81 min Scan# 4627
 Delta R.T. 0.01 min
 Lab File: VL033620.D
 Acq: 1 May 2019 15:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

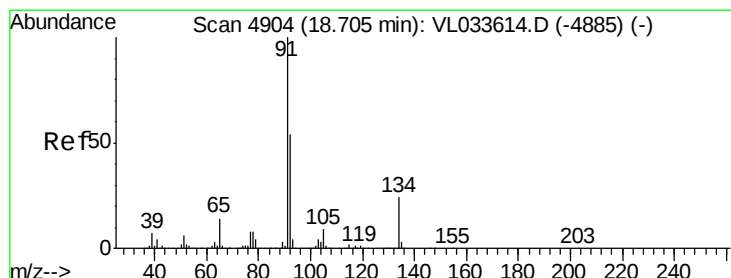
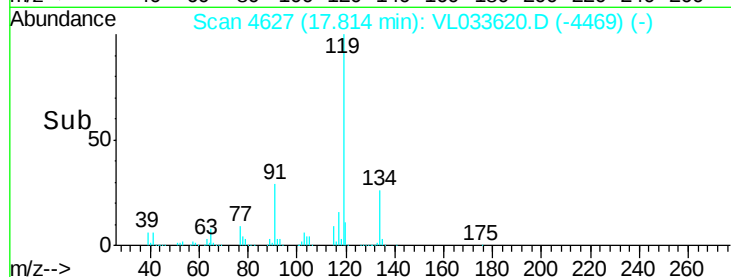
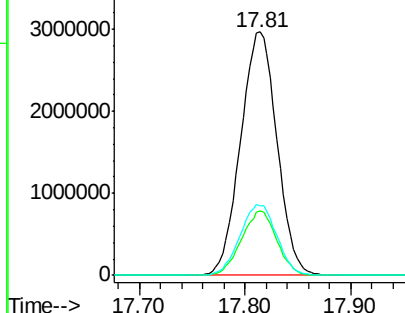
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.7	20.2	30.2
91	29.4	23.3	34.9

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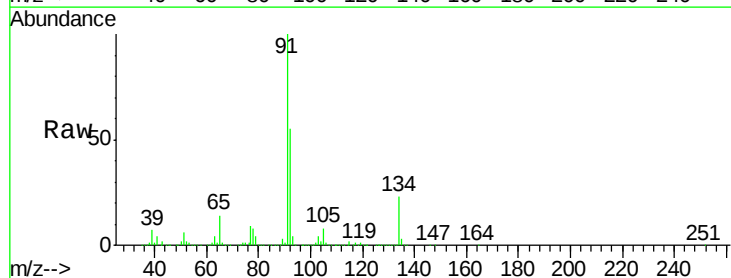


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

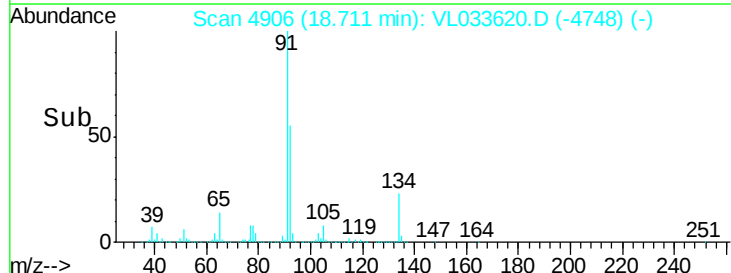
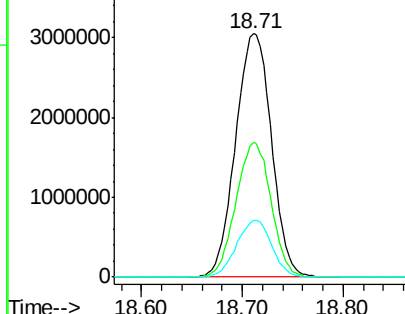


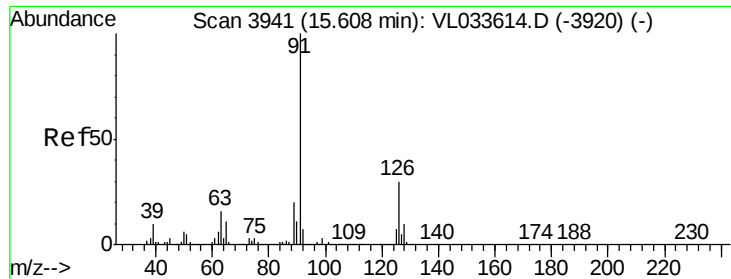
#70
 n-Butylbenzene
 Concen: 14.881 ppbv
 RT: 18.71 min Scan# 4906
 Delta R.T. 0.01 min
 Lab File: VL033620.D
 Acq: 1 May 2019 15:51

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.1	42.6	64.0
134	22.9	18.0	27.0



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 15.811 ppbv

RT: 15.61 min Scan# 3943

Delta R.T. 0.01 min

Lab File: VL033620.D

Acq: 1 May 2019 15:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 5024443

Ion Ratio Lower Upper

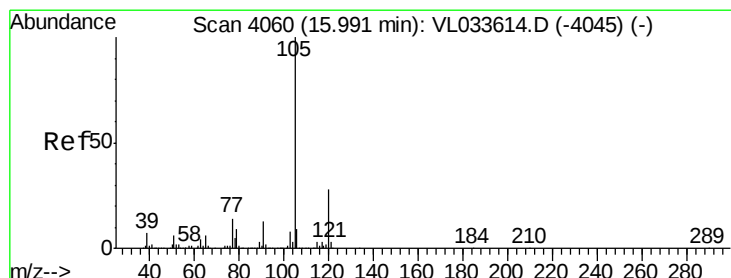
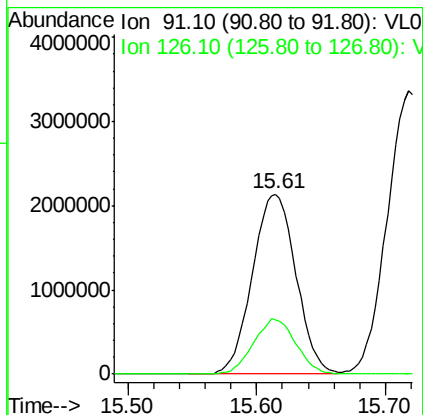
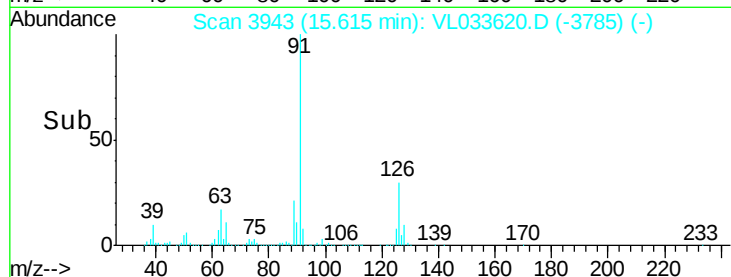
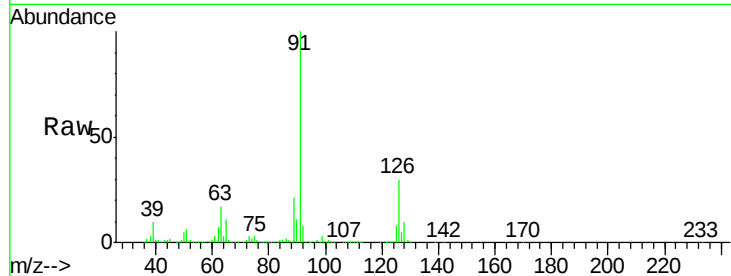
91 100

126 30.0 11.9 47.7

Manual Integrations
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#72

4-Ethyltoluene

Concen: 16.127 ppbv

RT: 16.00 min Scan# 4062

Delta R.T. 0.01 min

Lab File: VL033620.D

Acq: 1 May 2019 15:51

Tgt Ion:105 Resp: 5841173

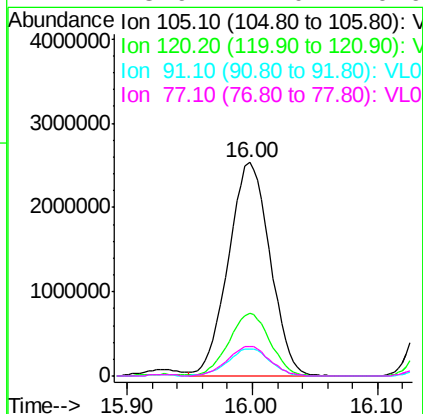
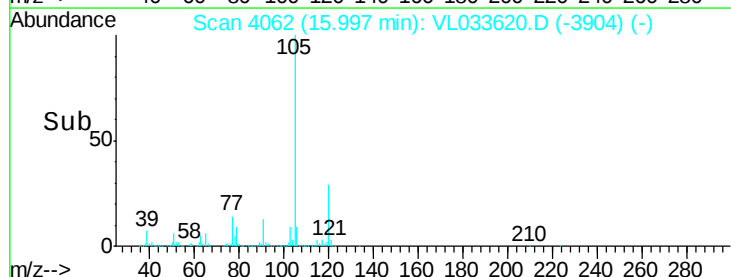
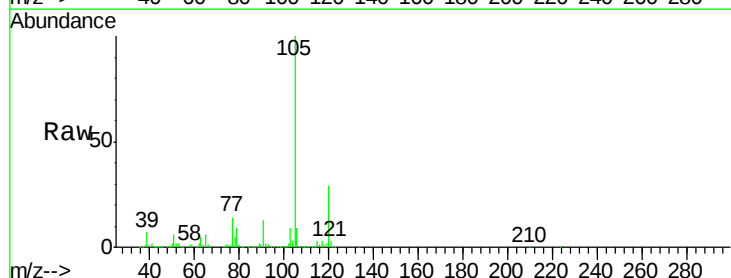
Ion Ratio Lower Upper

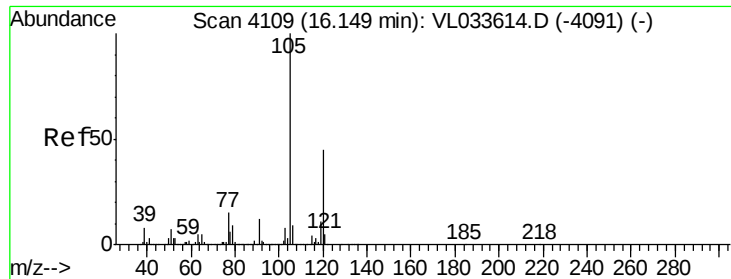
105 100

120 29.2 23.2 34.8

91 12.9 10.3 15.5

77 13.9 11.0 16.6





#73

1,3,5-Trimethylbenzene

Concen: 15.548 ppbv

RT: 16.16 min Scan# 4111

Delta R.T. 0.01 min

Lab File: VL033620.D

Acq: 1 May 2019 15:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 5536168

Ion Ratio Lower Upper

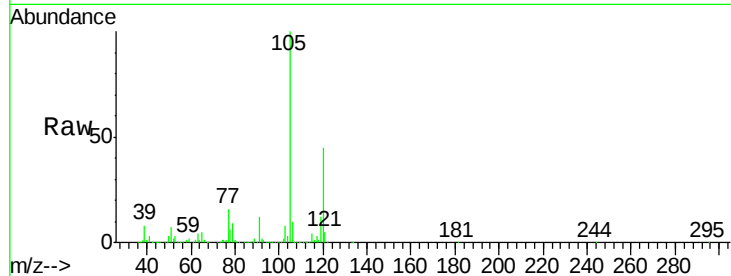
105 100

120 45.4 36.2 54.2

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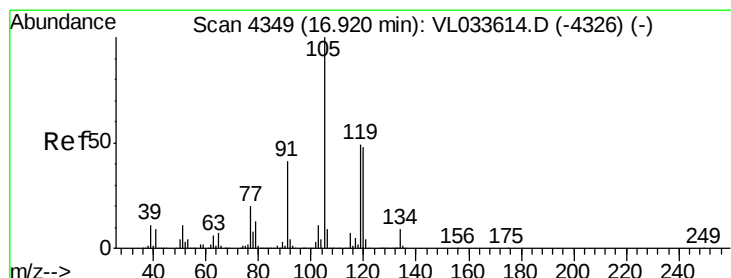
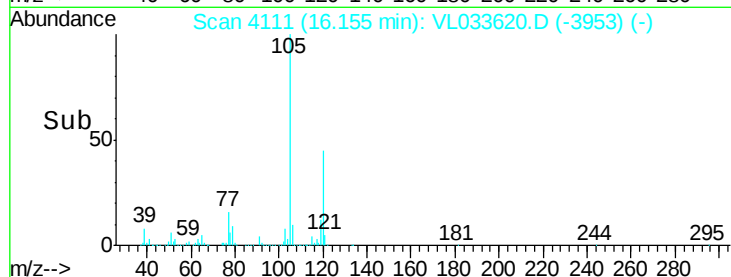
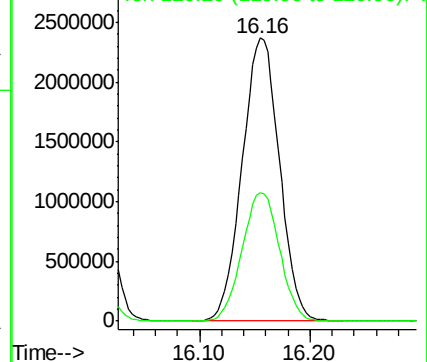
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 14.593 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. 0.00 min

Lab File: VL033620.D

Acq: 1 May 2019 15:51

Tgt Ion:105 Resp: 5789968

Ion Ratio Lower Upper

105 100

120 47.7 38.4 57.6

91 48.3 33.0 49.4

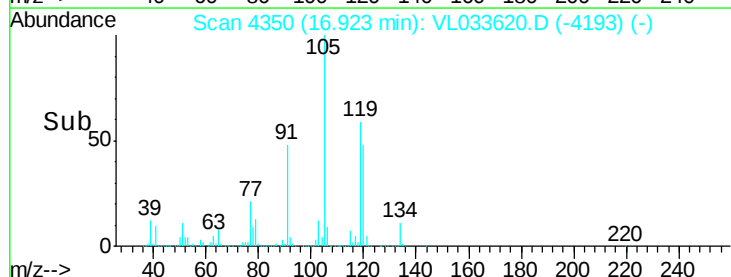
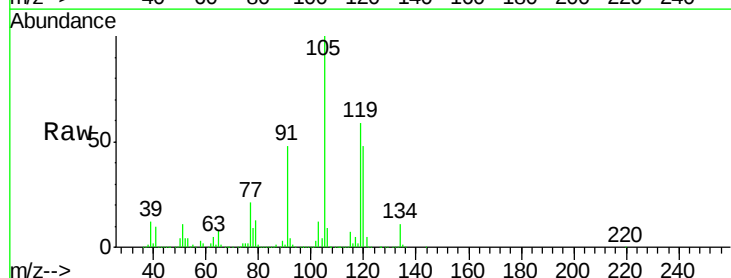
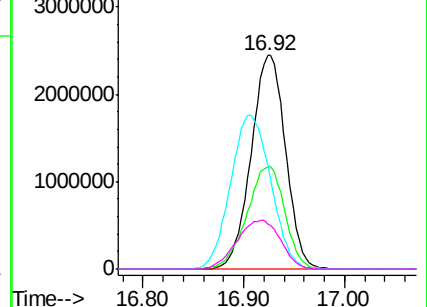
77 21.2 16.2 24.2

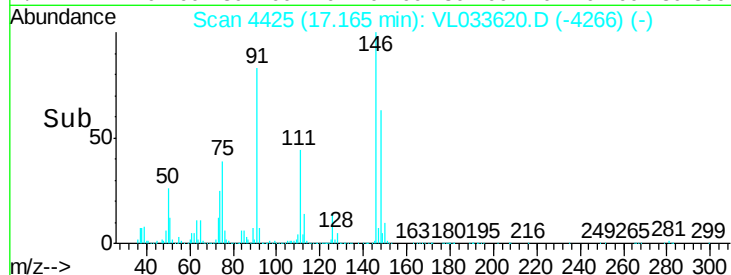
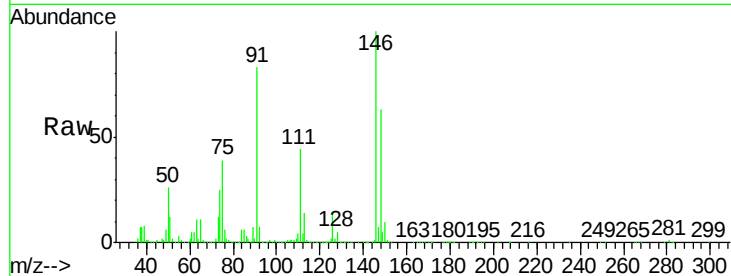
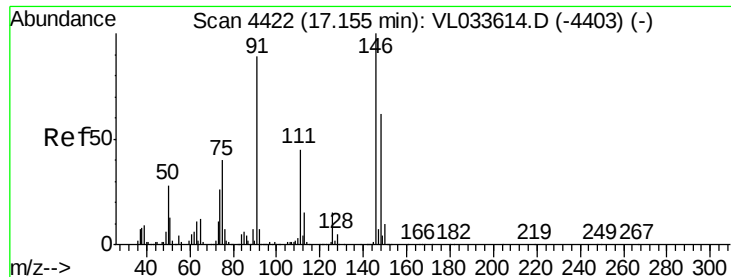
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





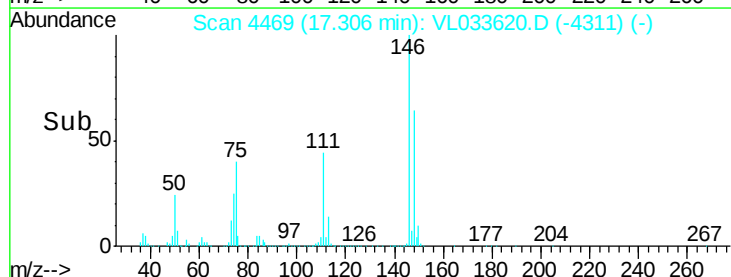
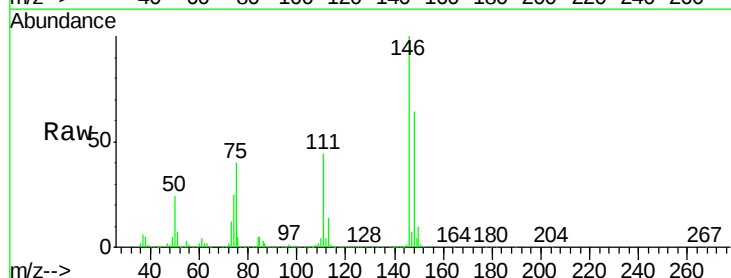
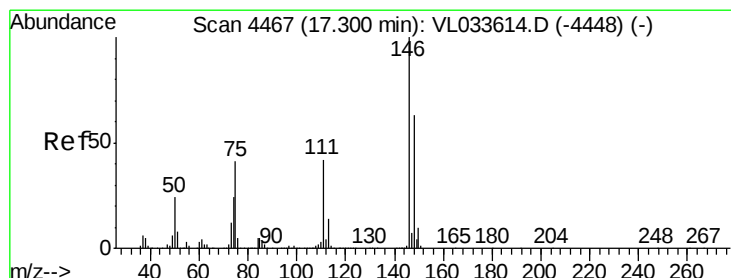
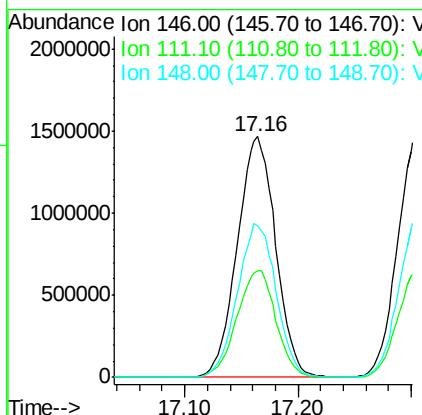
#75
 1,3-Dichlorobenzene
 Concen: 13.982 ppbv
 RT: 17.16 min Scan# 4425
 Delta R.T. 0.01 min
 Lab File: VL033620.D
 Acq: 1 May 2019 15:51

Tot Ion:146 Resp: 3453146
 Ion Ratio Lower Upper
 146 100
 111 45.1 22.4 67.2
 148 64.4 32.0 96.0

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

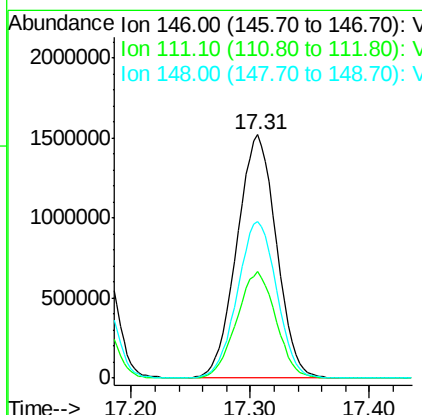
Manual Integrations
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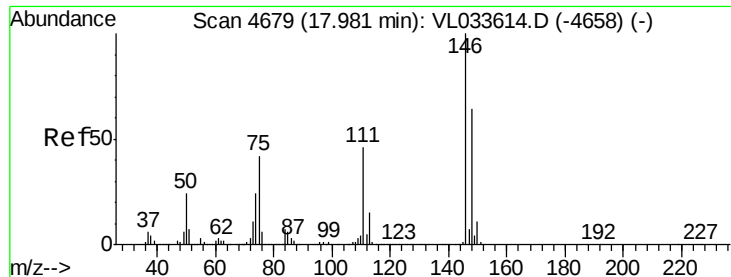
MMDadoda
 5/2/2019 4:04:17 PM



#76
 1,4-Dichlorobenzene
 Concen: 14.746 ppbv
 RT: 17.31 min Scan# 4469
 Delta R.T. 0.01 min
 Lab File: VL033620.D
 Acq: 1 May 2019 15:51

Tgt Ion:146 Resp: 3474875
 Ion Ratio Lower Upper
 146 100
 111 43.7 21.6 65.0
 148 64.7 32.3 96.9





#77

1,2-Dichlorobenzene

Concen: 14.619 ppbv

RT: 17.98 min Scan# 4680

Delta R.T. 0.00 min

Lab File: VL033620.D

Acq: 1 May 2019 15:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 3365388

Ion Ratio Lower Upper

146 100

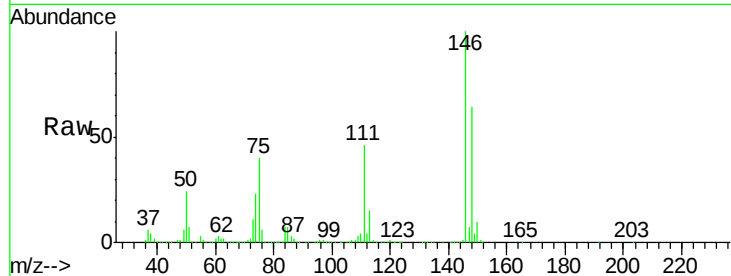
111 46.2 23.3 69.9

148 63.9 32.2 96.6

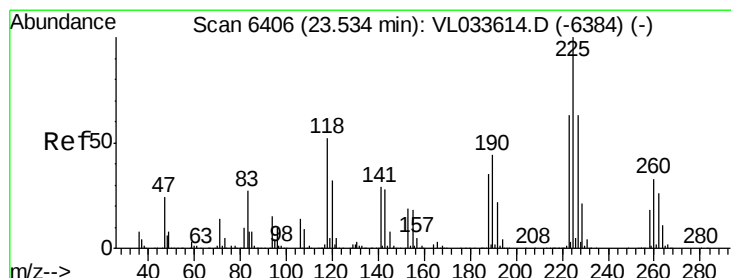
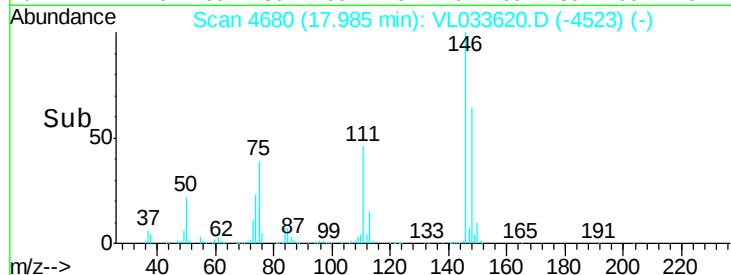
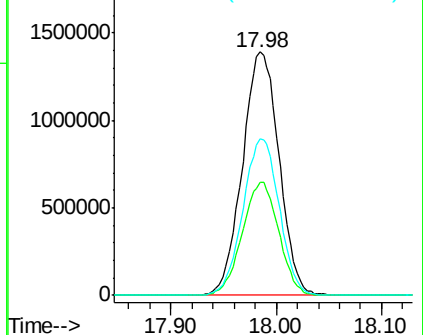
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 16.098 ppbv

RT: 23.54 min Scan# 6407

Delta R.T. 0.00 min

Lab File: VL033620.D

Acq: 1 May 2019 15:51

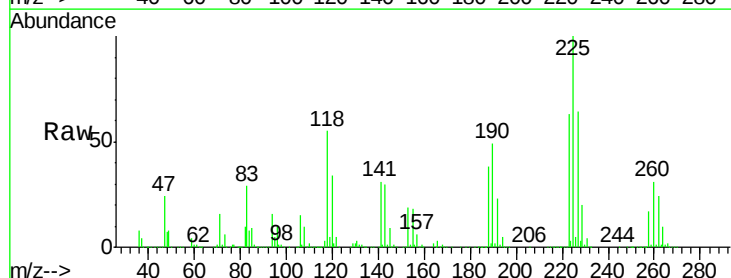
Tgt Ion:225 Resp: 2824273

Ion Ratio Lower Upper

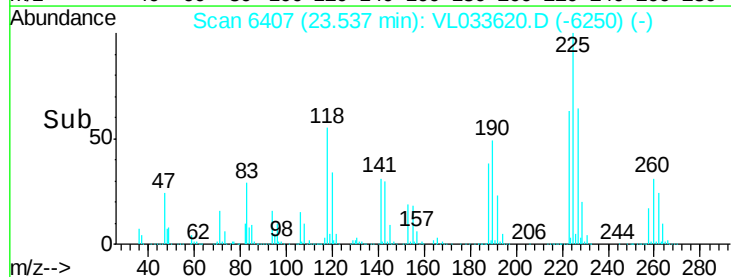
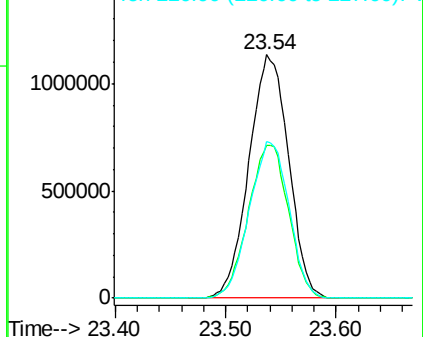
225 100

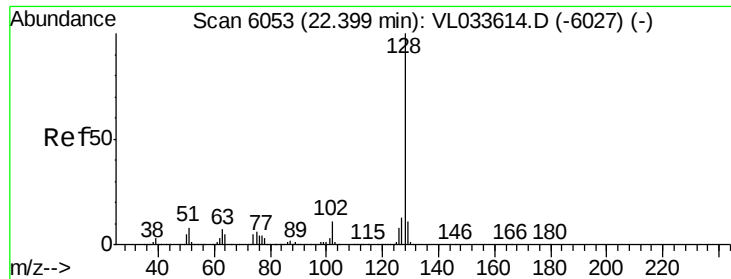
223 63.7 50.4 75.6

227 64.4 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





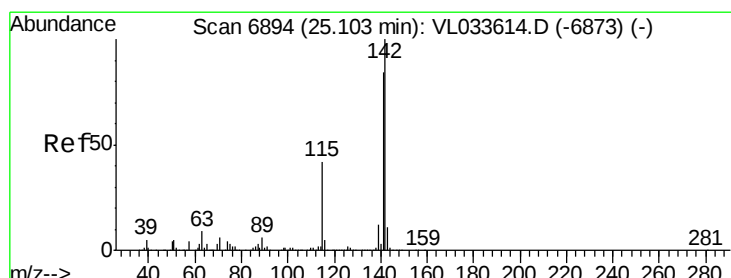
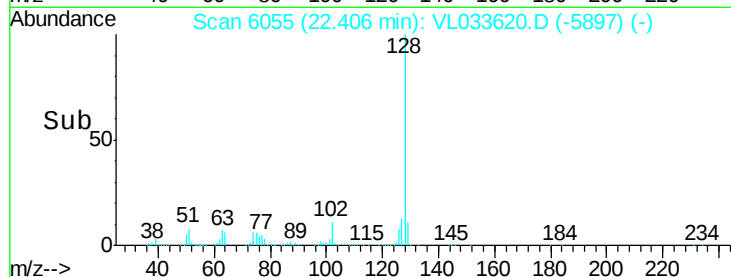
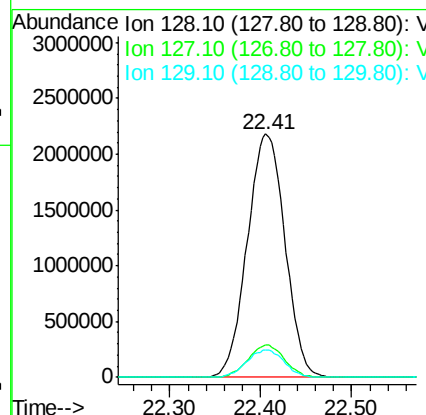
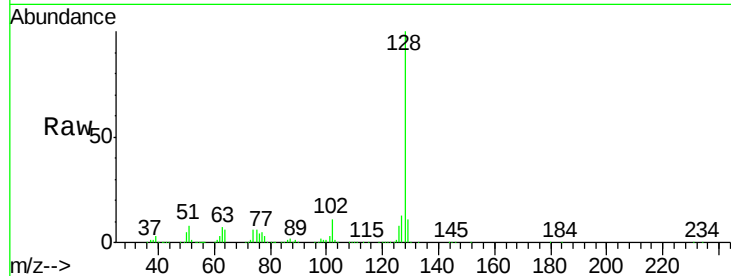
#79
Naphthalene
Concen: 17.109 ppbv
RT: 22.41 min Scan# 6055
Delta R.T. 0.01 min
Lab File: VL033620.D
Acq: 1 May 2019 15:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.6	16.0
129	11.2	8.6	13.0

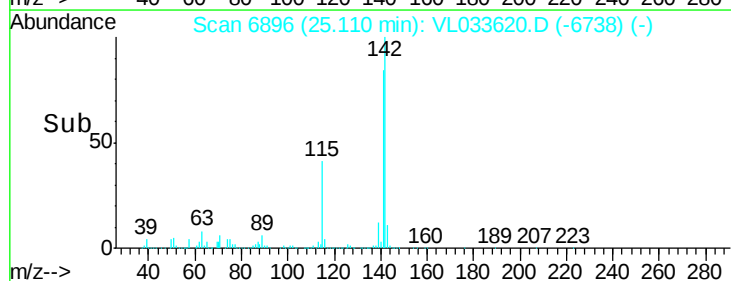
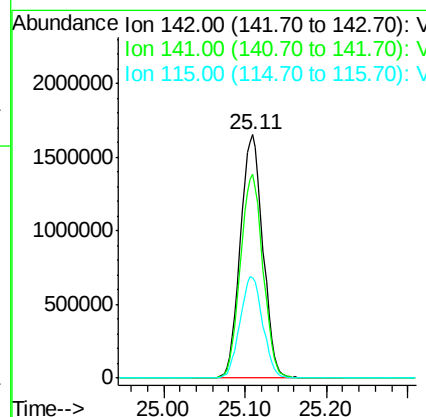
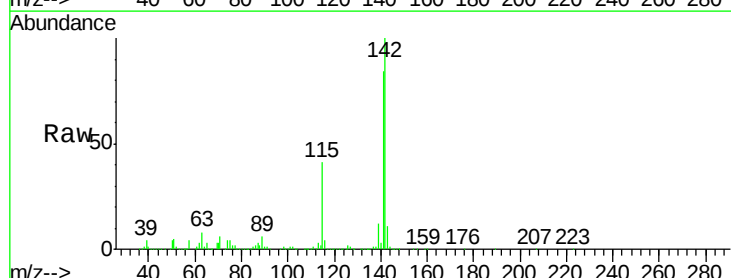
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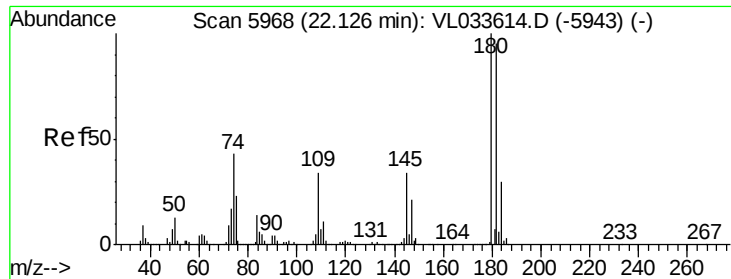
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#80
Naphthalene, 2-methyl-
Concen: 19.948 ppbv
RT: 25.11 min Scan# 6896
Delta R.T. 0.01 min
Lab File: VL033620.D
Acq: 1 May 2019 15:51

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.1	67.3	100.9
115	42.0	33.8	50.8





#81
 1,2,4-Trichlorobenzene
 Concen: 15.860 ppbv
 RT: 22.13 min Scan# 5970
 Delta R.T. 0.01 min
 Lab File: VL033620.D
 Acq: 1 May 2019 15:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.5	76.2	114.2
184	30.6	24.5	36.7

Manual Integrations
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