

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032519\
 Data File : VL033443.D
 Acq On : 25 Mar 2019 19:34
 Operator : SY/AP
 Sample : VL0325ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0325ABS01

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:22:51 AM

Quant Time: Mar 27 01:48:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 27 01:48:03 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	768513	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1804219	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1919606m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1462364	9.72	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1008756	9.000	ppbv	97
3) Chlorodifluoromethane	3.01	51	834347	9.430	ppbv	99
4) Chloromethane	3.17	50	438885	9.374	ppbv	99
5) Vinyl Chloride	3.29	62	444633	9.666	ppbv	99
6) Bromomethane	3.51	94	278709	9.428	ppbv	93
7) Chloroethane	3.60	64	164553	9.612	ppbv	100
8) Dichlorotetrafluoroethane	3.22	85	1103136	9.237	ppbv	100
9) Propene	3.03	41	352286	9.481	ppbv	98
10) Heptane	8.25	43	953681	9.602	ppbv	100
11) Trichlorofluoromethane	4.00	101	1267694	9.177	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	868924	9.365	ppbv	99
13) Ethanol	3.64	45	90518	9.414	ppbv	65
14) Bromoethene	3.79	108	360655	9.746	ppbv	99
15) Acetone	3.90	43	800352	8.661	ppbv	99
16) 1,3-Butadiene	3.36	39	387955	10.585	ppbv	96
17) tert-Butyl alcohol	4.35	59	164800	9.700	ppbv	100
18) 1,1-Dichloroethene	4.35	96	378667	9.501	ppbv	97
19) Isopropyl Alcohol	4.02	45	567059	9.702	ppbv #	99
20) Methylene Chloride	4.41	84	339501	8.655	ppbv	96
21) Allyl Chloride	4.48	41	569903	9.756	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	395283	9.507	ppbv	96
23) Vinyl Acetate	5.16	43	1308644	9.950	ppbv	99
24) 1,1-Dichloroethane	5.09	63	931558	9.324	ppbv	99
25) Ethyl Acetate	5.77	43	1597106	9.315	ppbv	100
26) Hexane	5.78	57	714259	9.370	ppbv	98
27) Carbon Disulfide	4.62	76	949398	10.473	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1071219	9.757	ppbv	99
29) Chloroform	5.85	83	1211838	9.274	ppbv	98
30) Cyclohexane	7.25	84	606945	10.064	ppbv	98
31) cis-1,2-Dichloroethene	5.64	61	732713	9.668	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	1200278	9.646	ppbv	99
34) 2-Butanone	5.33	43	1039476	9.589	ppbv	99
35) Carbon Tetrachloride	7.14	117	1284140	10.049	ppbv	97
36) Benzene	7.01	78	1495600	9.879	ppbv	99
37) 1,2-Dichloroethane	6.41	62	945656	9.320	ppbv	100
38) Trichloroethene	7.96	130	598375	10.503	ppbv	97
39) 1,2-Dichloropropane	7.74	63	572451	9.653	ppbv	98
40) 1,4-Dioxane	7.96	88	190132	8.989	ppbv	79
41) Tetrahydrofuran	6.15	42	590180	9.899	ppbv	99
42) Bromodichloromethane	7.92	83	1359638	9.838	ppbv	99
43) Methyl Methacrylate	8.14	69	622013	10.119	ppbv	99

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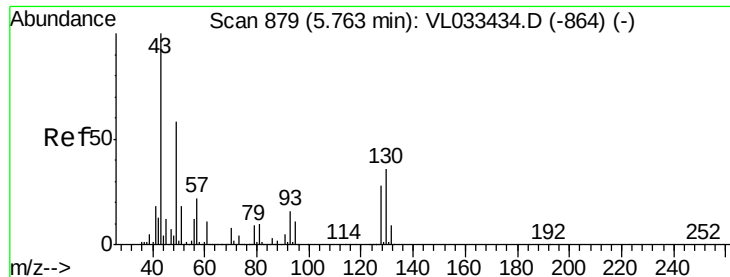
Manual Integrations
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Quant Time: Mar 27 01:48:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 27 01:48:03 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2544075	9.617	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	845252	11.200	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	951854	10.800	ppbv	99
47) 1,1,2-Trichloroethane	9.61	97	645999	9.593	ppbv	98
48) Dibromochloromethane	10.45	129	1180461	10.393	ppbv	99
49) Bromoform	13.21	173	1075411	9.911	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	1566850	9.871	ppbv	100
51) 2-Hexanone	10.27	43	1235998	10.439	ppbv #	99
52) Tetrachloroethene	11.38	164	584539	10.234	ppbv	97
53) Toluene	9.95	91	1803474	10.252	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1035107	9.827	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	828361	9.416	ppbv	99
57) Chlorobenzene	12.30	112	1388368	9.314	ppbv	99
58) Ethyl Benzene	12.87	91	2591566	10.110	ppbv	100
59) m/p-Xylene	13.13	91	4366077m	19.068	ppbv	
60) o-Xylene	13.85	91	2143729	9.682	ppbv	99
61) Styrene	13.69	104	1601175	10.537	ppbv	100
62) Isopropylbenzene	14.83	105	2978789	9.500	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1496712	9.180	ppbv	100
64) n-propylbenzene	15.73	120	764181	9.605	ppbv	98
65) tert-Butylbenzene	16.91	119	2680137	9.700	ppbv	99
66) Benzyl Chloride	17.16	91	1496423	11.647	ppbv	99
67) sec-Butylbenzene	17.46	105	3821942	9.727	ppbv	99
69) p-Isopropyltoluene	17.82	119	3158926	9.874	ppbv	100
70) n-Butylbenzene	18.72	91	3346025	9.871	ppbv	100
71) 2-Chlorotoluene	15.62	91	2286478	9.590	ppbv	99
72) 4-Ethyltoluene	16.01	105	2457636	9.875	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	2376666	9.979	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	2468948	9.671	ppbv	99
75) 1,3-Dichlorobenzene	17.17	146	1468166	9.305	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1461179	9.505	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1431598	9.563	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	776932	7.840	ppbv	100
79) Naphthalene	22.41	128	2436877	11.151	ppbv	98
80) Naphthalene, 2-methyl-	25.12	142	1069003	14.576	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1242591	10.251	ppbv	100

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



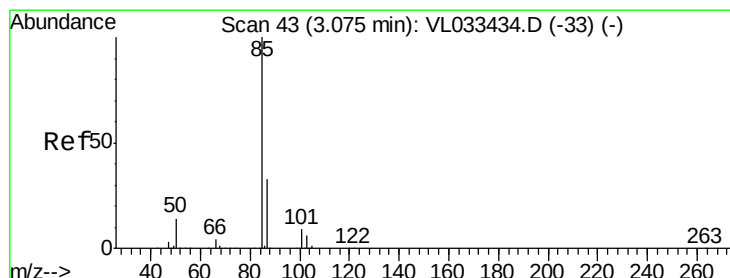
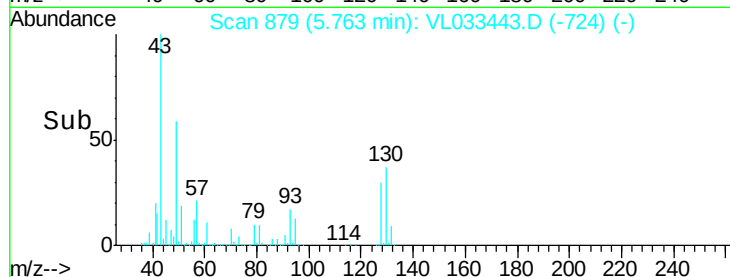
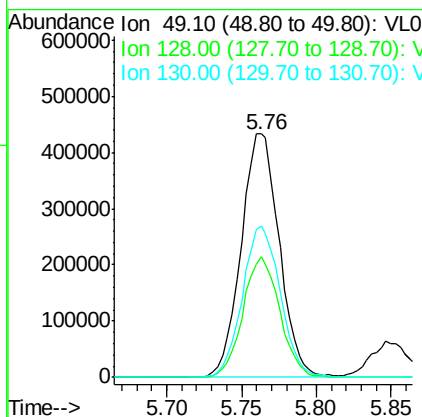
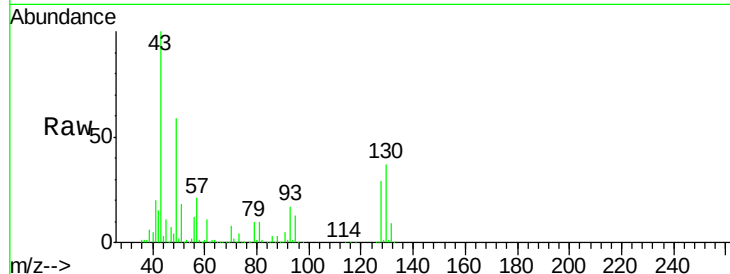
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.76 min Scan# 879
Delta R.T. -0.00 min
Lab File: VL033443.D
Acq: 25 Mar 2019 19:34

Instrument :
MSVOA_L
ClientSampleId :
VL0325ABS01

Tot Ion	Ratio	Lower	Upper
49	100		
128	47.9	24.0	72.0
130	62.0	31.2	93.6

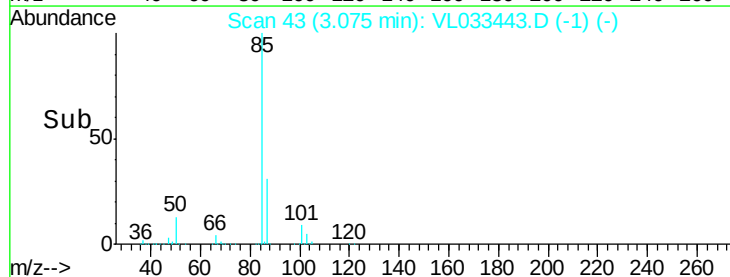
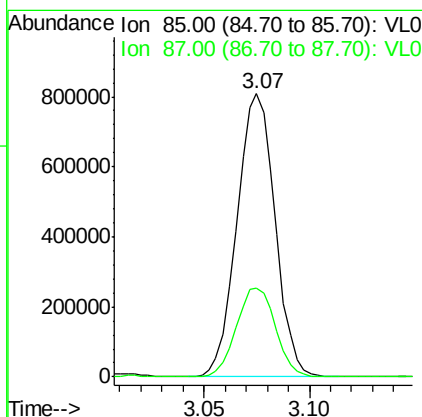
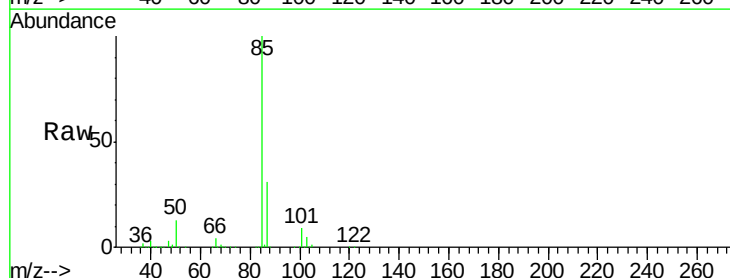
Manual Integrations
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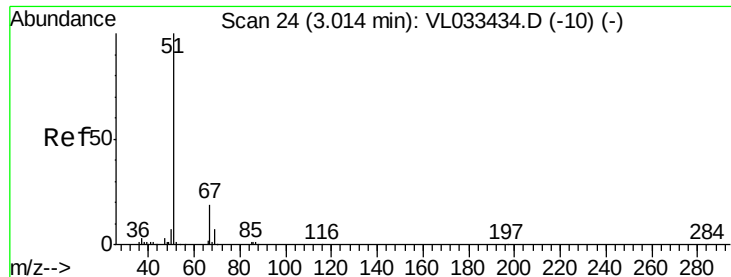
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#2
Dichlorodifluoromethane
Concen: 9.000 ppbv
RT: 3.07 min Scan# 43
Delta R.T. -0.00 min
Lab File: VL033443.D
Acq: 25 Mar 2019 19:34

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.4	26.7	40.1





#3

Chlorodifluoromethane

Concen: 9.430 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

Tot Ion: 51 Resp: 834347

Ion Ratio Lower Upper

51 100

67 19.2 15.7 23.5

Instrument :

MSVOA_L

ClientSampleId :

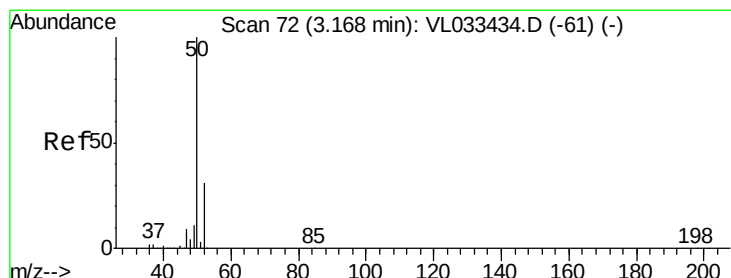
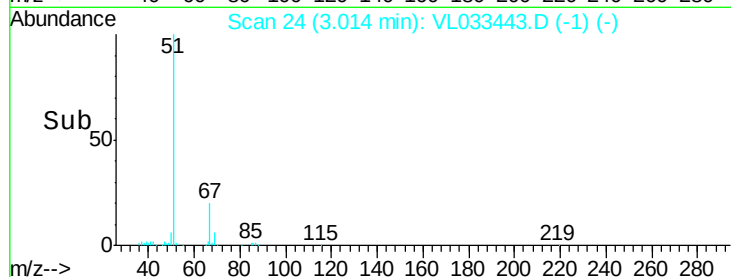
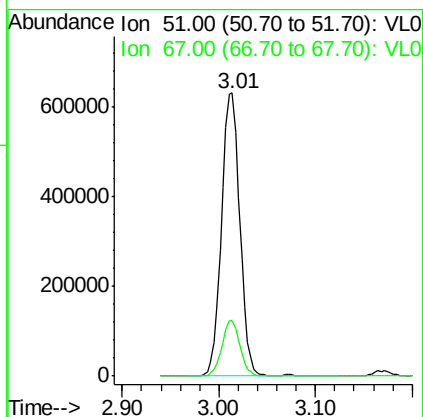
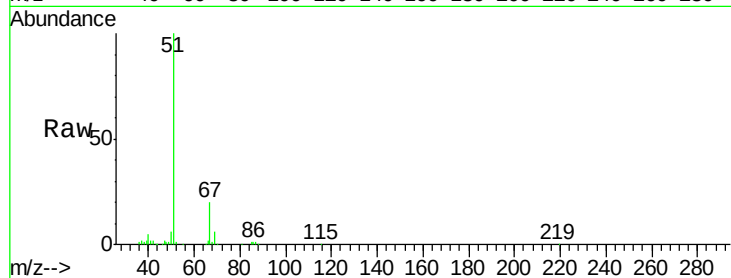
VL0325ABS01

Manual Integrations

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#4

Chloromethane

Concen: 9.374 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033443.D

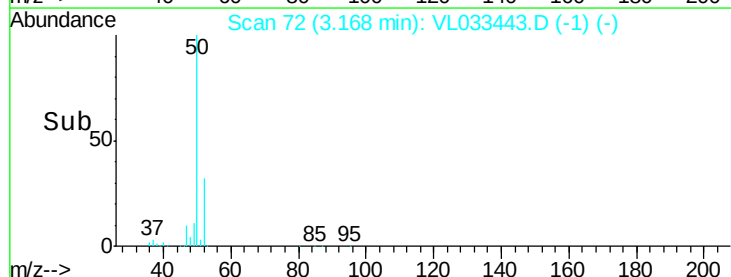
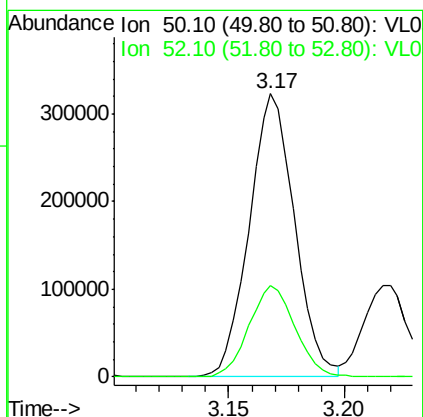
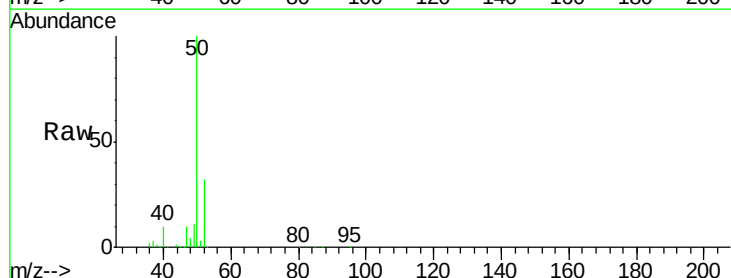
Acq: 25 Mar 2019 19:34

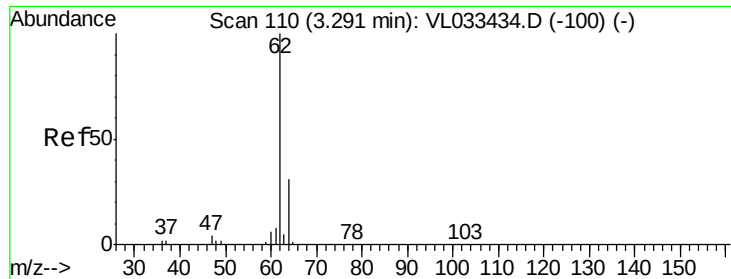
Tgt Ion: 50 Resp: 438885

Ion Ratio Lower Upper

50 100

52 32.1 25.0 37.6





#5

Vinyl Chloride

Concen: 9.666 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

Instrument :

MSVOA_L

ClientSampleId :

VL0325ABS01

Tot Ion: 62 Resp: 444633

Ion Ratio Lower Upper

62 100

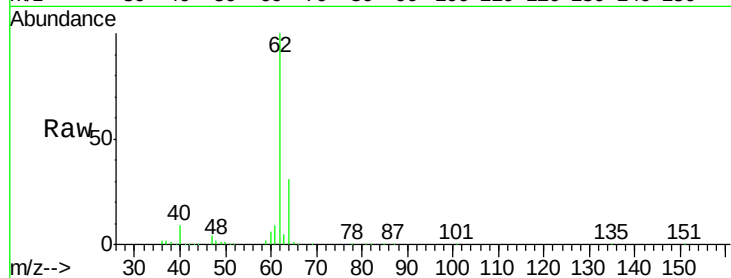
64 31.4 24.9 37.3

Manual Integrations

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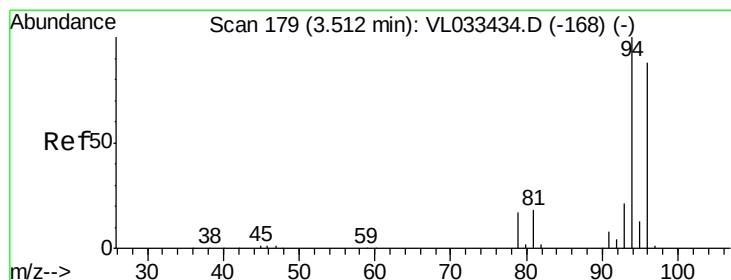
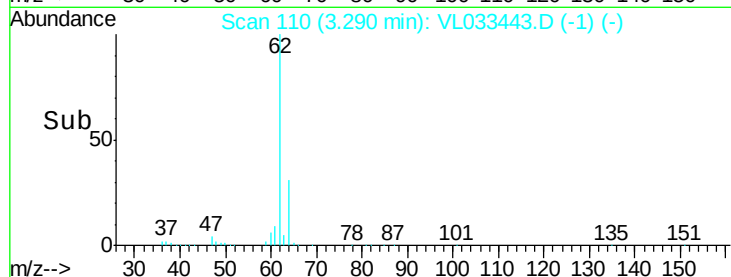
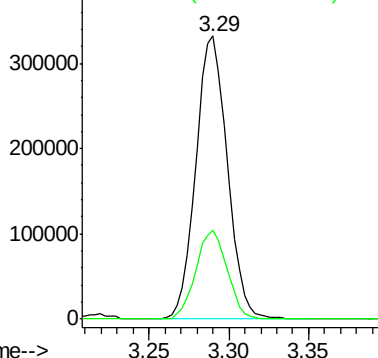
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.428 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033443.D

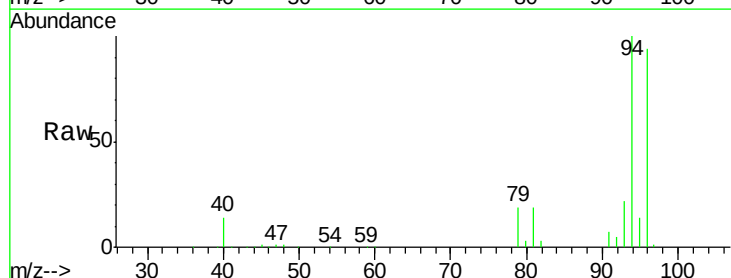
Acq: 25 Mar 2019 19:34

Tgt Ion: 94 Resp: 278709

Ion Ratio Lower Upper

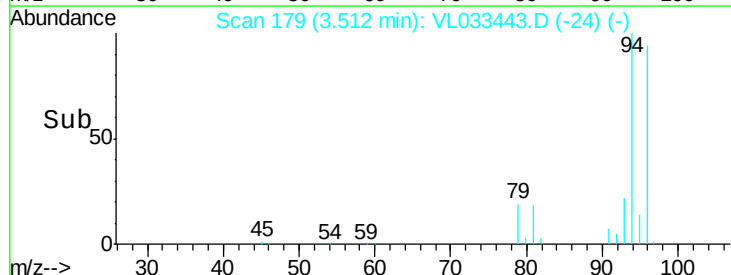
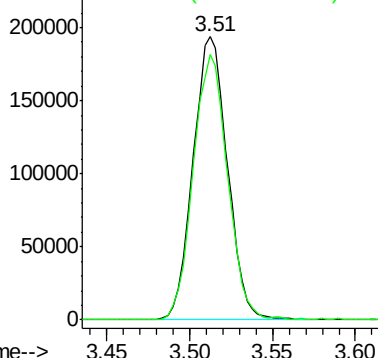
94 100

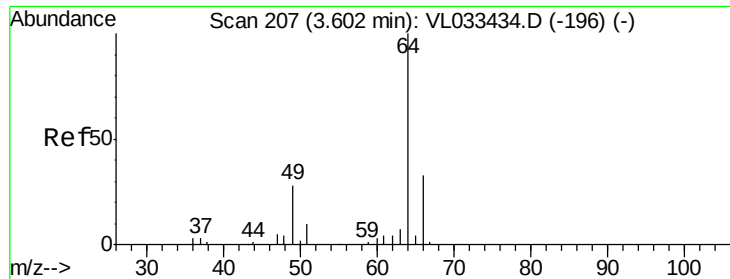
96 94.0 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.612 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

Instrument :

MSVOA_L

ClientSampleId :

VL0325ABS01

Tot Ion: 64 Resp: 164553

Ion Ratio Lower Upper

64 100

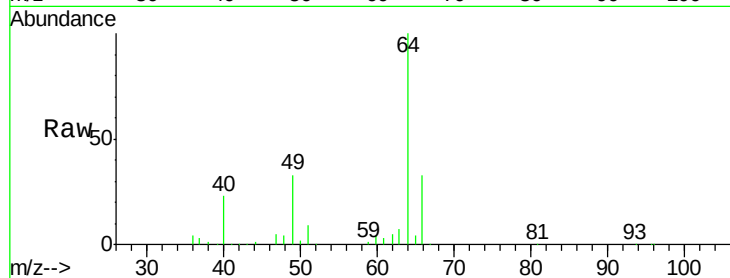
66 33.4 26.7 40.1

Manual Integrations

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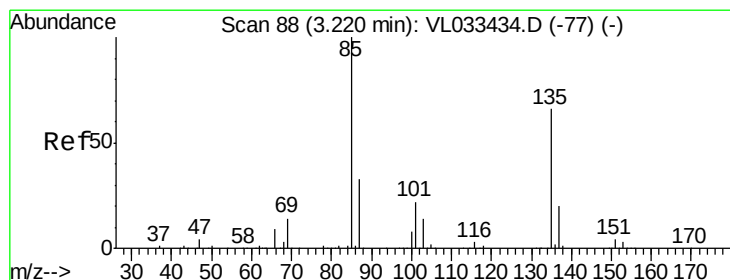
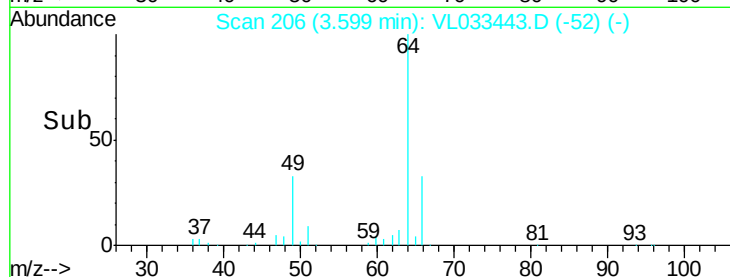
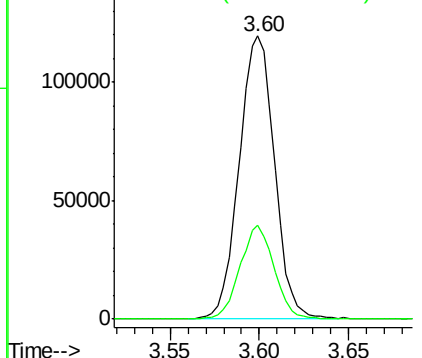
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.237 ppbv

RT: 3.22 min Scan# 87

Delta R.T. -0.00 min

Lab File: VL033443.D

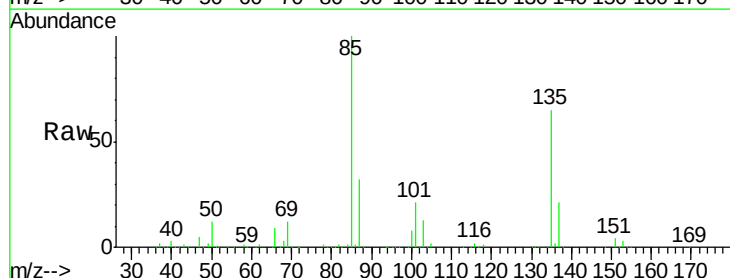
Acq: 25 Mar 2019 19:34

Tgt Ion: 85 Resp: 1103136

Ion Ratio Lower Upper

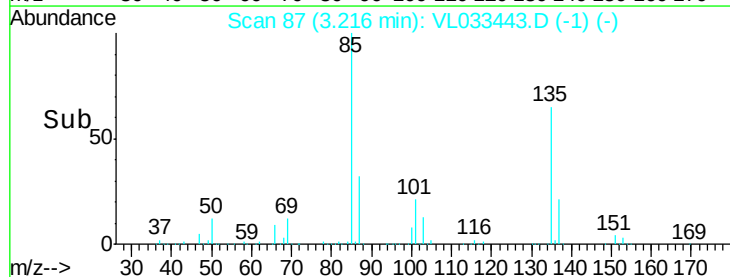
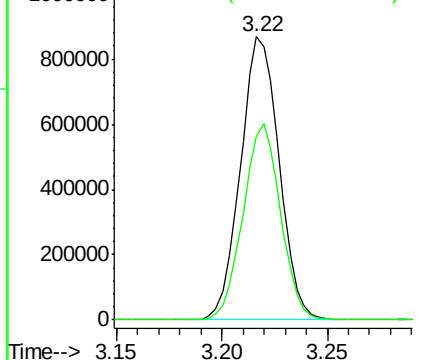
85 100

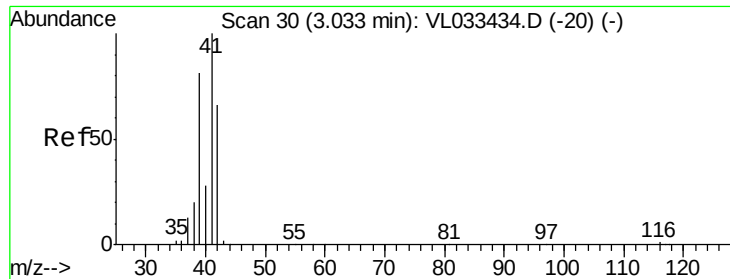
135 67.6 54.0 81.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 9.481 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

Instrument :

MSVOA_L

ClientSampleId :

VL0325ABS01

Tot Ion: 41 Resp: 352286

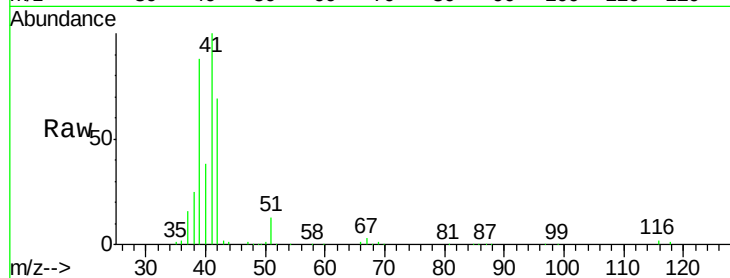
Ion Ratio Lower Upper

41 100

42 69.4 53.9 80.9

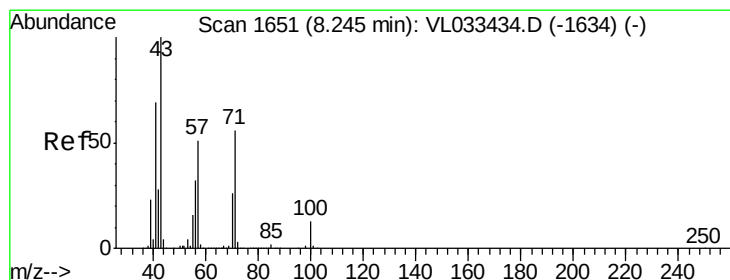
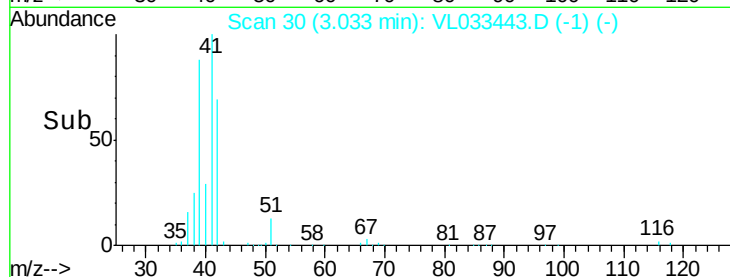
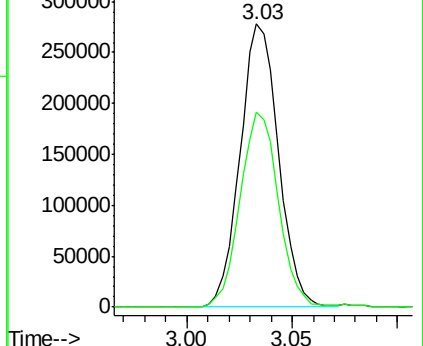
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 9.602 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: VL033443.D

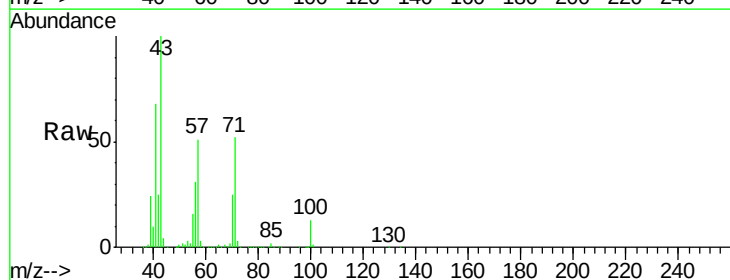
Acq: 25 Mar 2019 19:34

Tgt Ion: 43 Resp: 953681

Ion Ratio Lower Upper

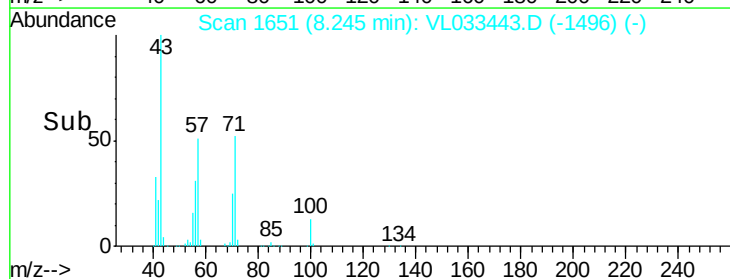
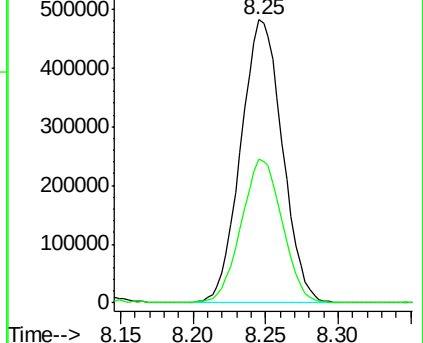
43 100

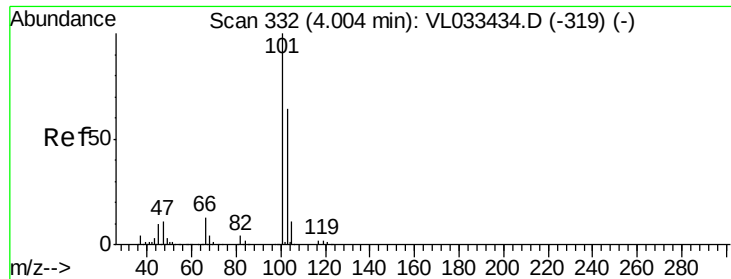
57 50.8 40.6 60.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





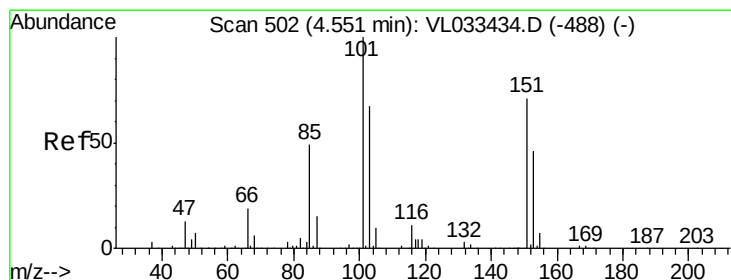
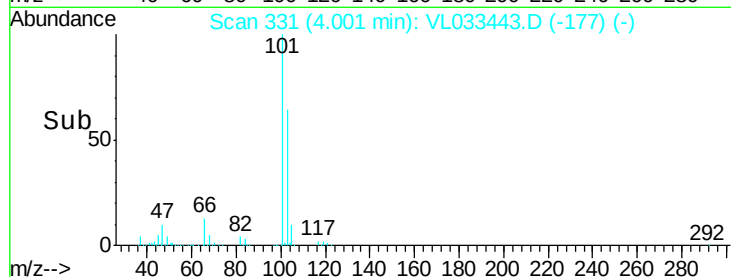
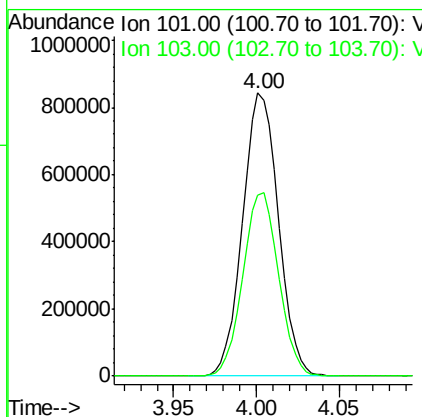
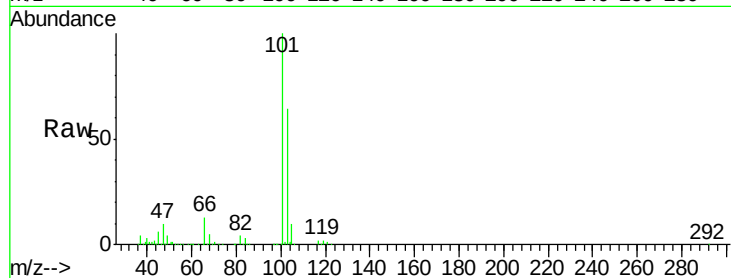
#11
 Trichlorofluoromethane
 Concen: 9.177 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. -0.00 min
 Lab File: VL033443.D
 Acq: 25 Mar 2019 19:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0325ABS01

Tot Ion:101 Resp: 1267694
 Ion Ratio Lower Upper
 101 100
 103 63.8 51.3 76.9

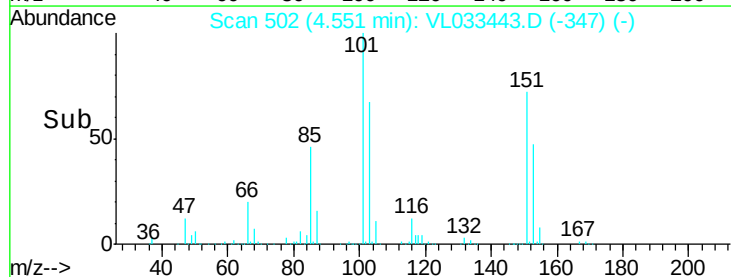
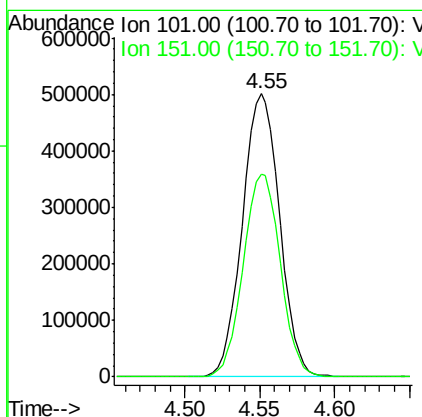
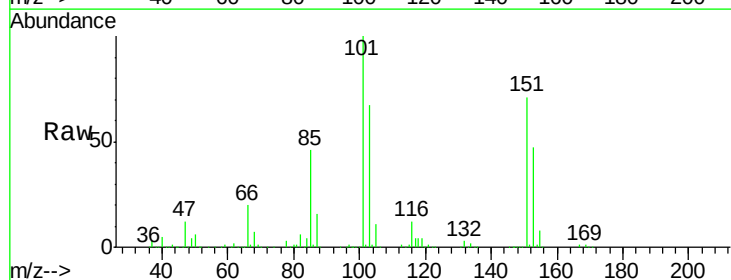
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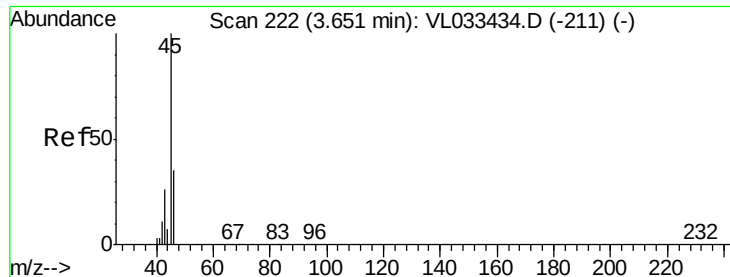
MMDadoda
 4/1/2019 1:22:51 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.365 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VL033443.D
 Acq: 25 Mar 2019 19:34

Tgt Ion:101 Resp: 868924
 Ion Ratio Lower Upper
 101 100
 151 71.5 57.7 86.5





#13

Ethanol

Concen: 9.414 ppbv

RT: 3.64 min Scan# 220

Delta R.T. -0.01 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

Instrument :

MSVOA_L

ClientSampleId :

VL0325ABS01

Tot Ion: 45 Resp: 90518

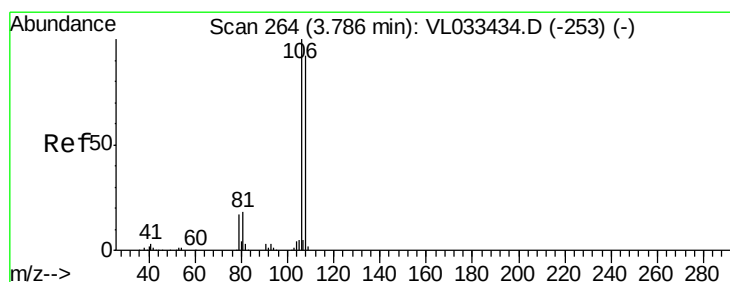
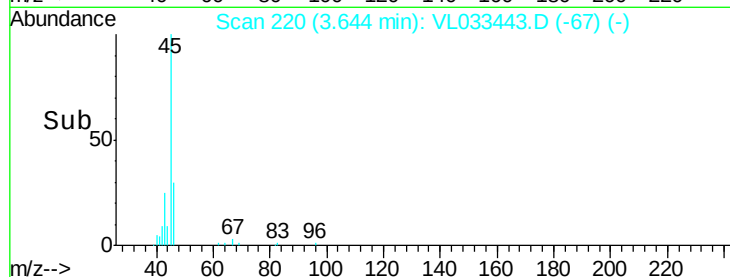
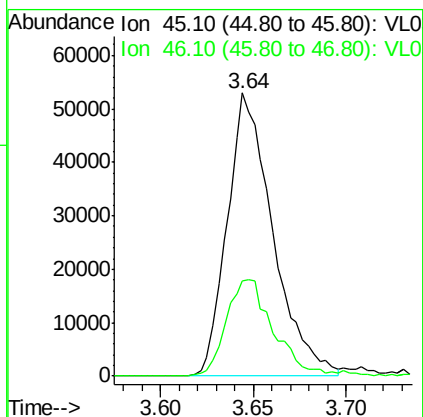
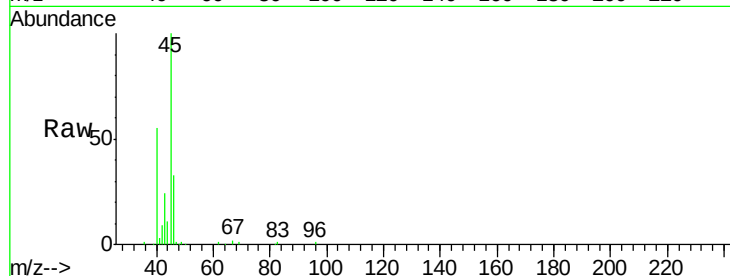
Ion Ratio Lower Upper

45 100

46 36.0 25.4 101.8

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MMDadoda
4/1/2019 1:22:51 AM



#14

Bromoethene

Concen: 9.746 ppbv

RT: 3.79 min Scan# 264

Delta R.T. -0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

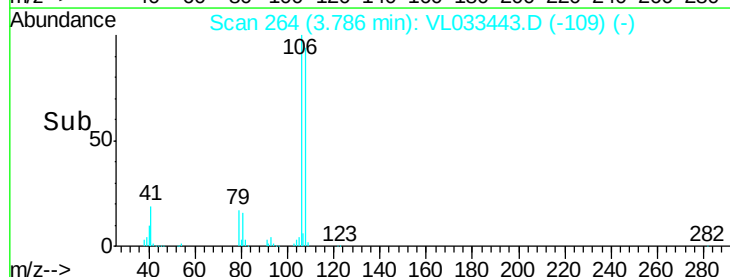
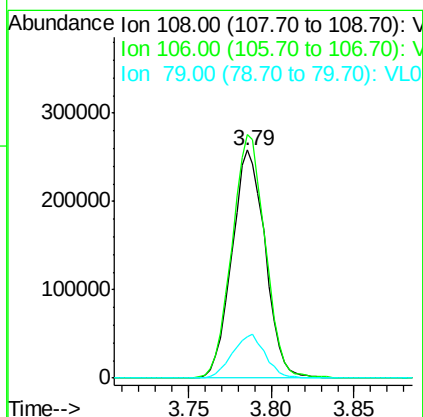
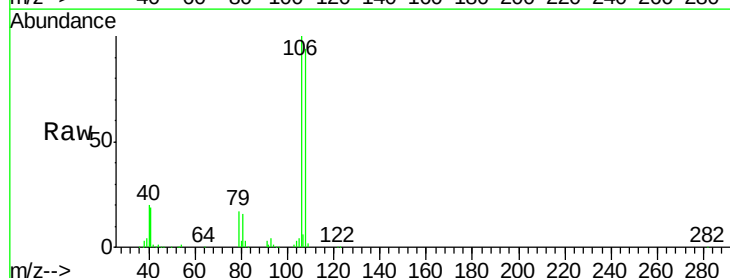
Tgt Ion: 108 Resp: 360655

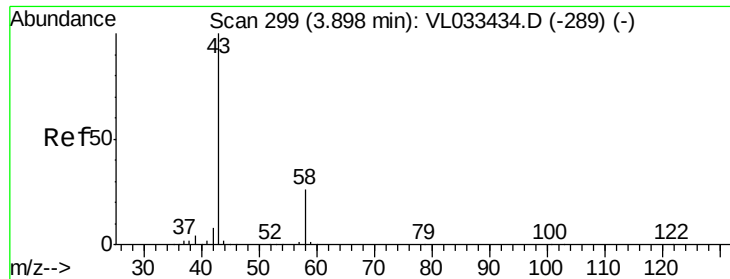
Ion Ratio Lower Upper

108 100

106 107.3 86.4 129.6

79 19.2 15.8 23.8





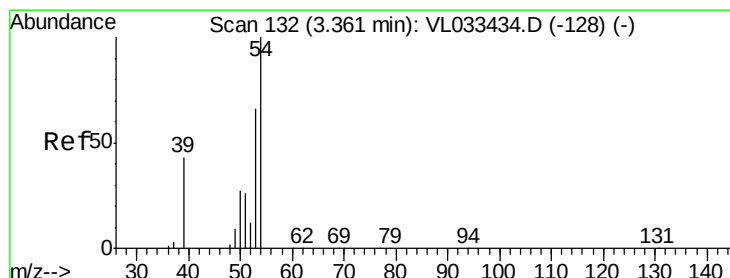
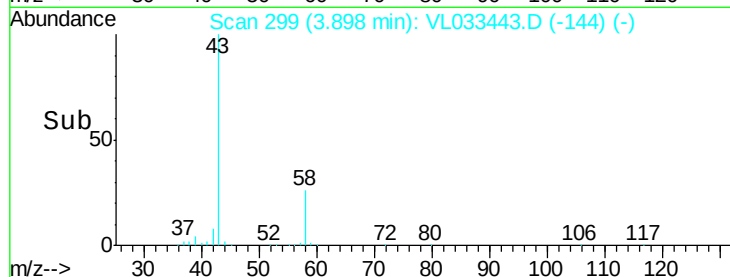
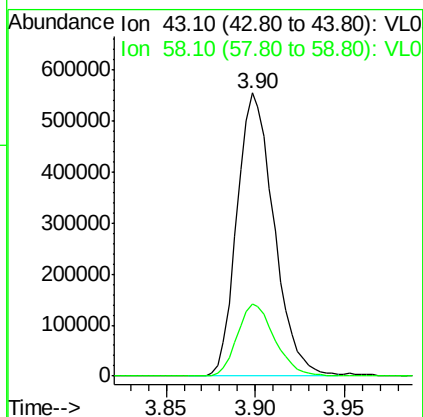
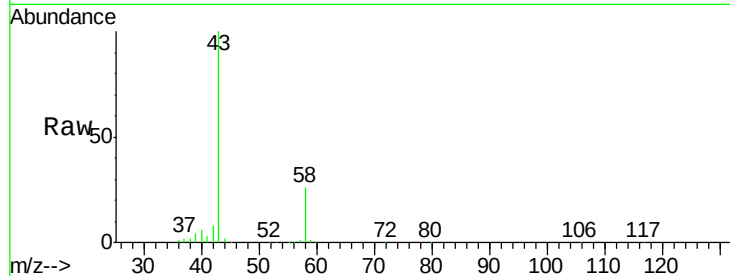
#15
Acetone
Concen: 8.661 ppbv
RT: 3.90 min Scan# 299
Delta R.T. -0.00 min
Lab File: VL033443.D
Acq: 25 Mar 2019 19:34

Instrument :
MSVOA_L
ClientSampleId :
VL0325ABS01

Tot Ion: 43 Resp: 800352
Ion Ratio Lower Upper
43 100
58 25.9 20.5 30.7

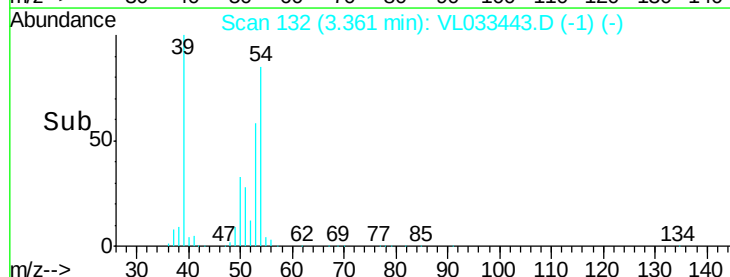
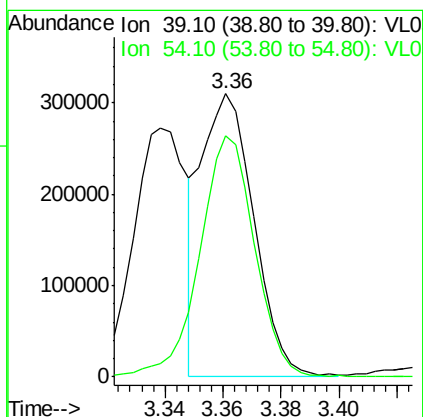
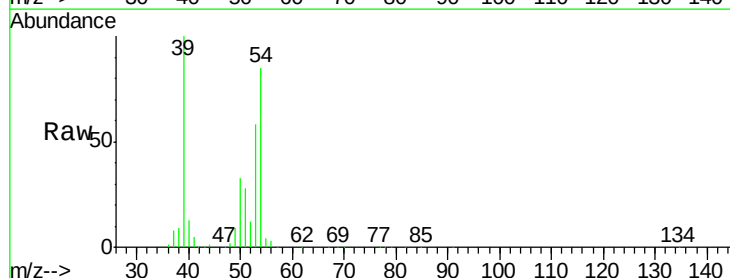
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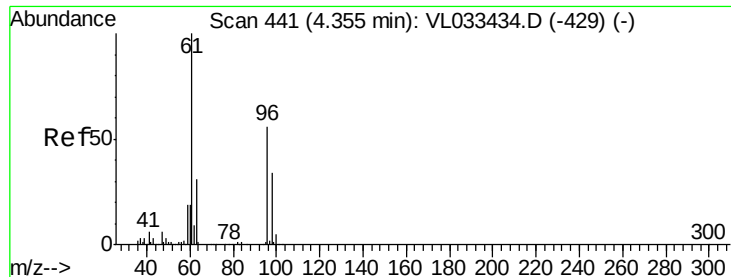
MMDadoda
4/1/2019 1:22:51 AM



#16
1,3-Butadiene
Concen: 10.585 ppbv
RT: 3.36 min Scan# 132
Delta R.T. -0.00 min
Lab File: VL033443.D
Acq: 25 Mar 2019 19:34

Tgt Ion: 39 Resp: 387955
Ion Ratio Lower Upper
39 100
54 90.5 69.4 104.2





#17

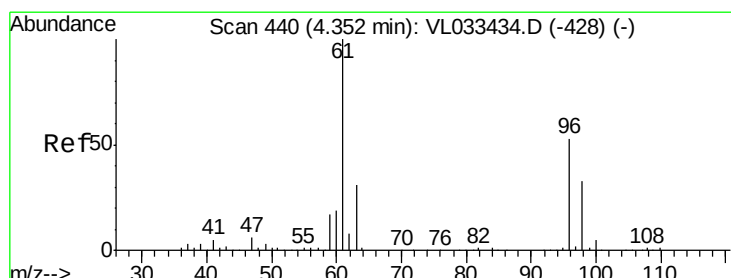
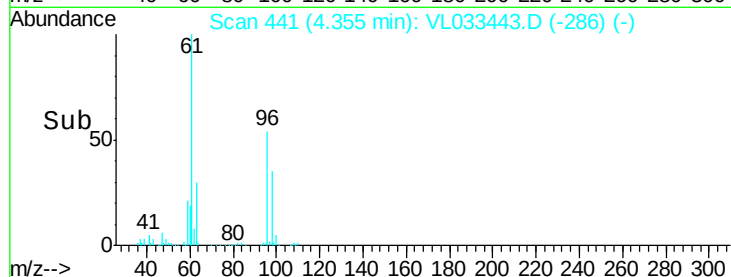
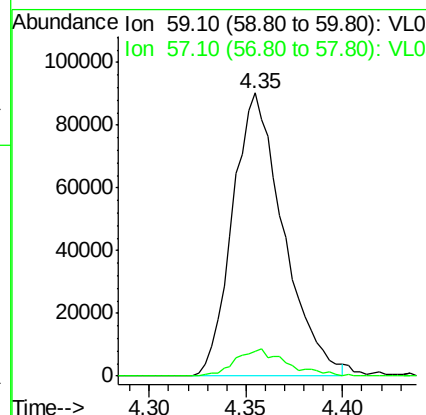
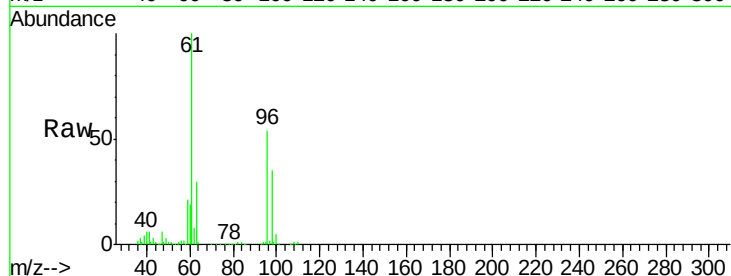
tert-Butyl alcohol
Concen: 9.700 ppbv
RT: 4.35 min Scan# 441
Delta R.T. -0.00 min
Lab File: VL033443.D
Acq: 25 Mar 2019 19:34

Instrument :
MSVOA_L
ClientSampleId :
VL0325ABS01

Tot Ion	59	Resp	164800
Ion Ratio	59	100	
Lower	57	9.8	7.8
Upper			11.8

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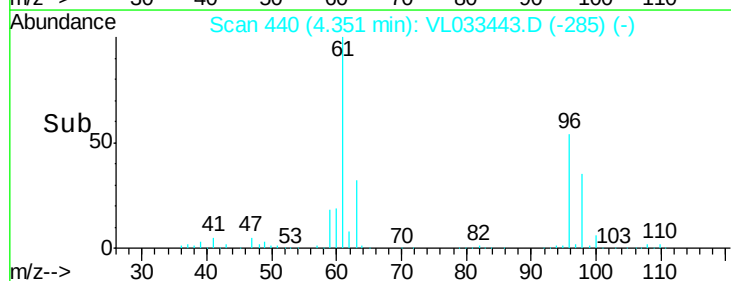
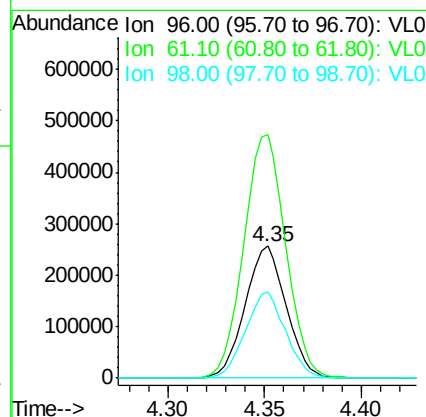
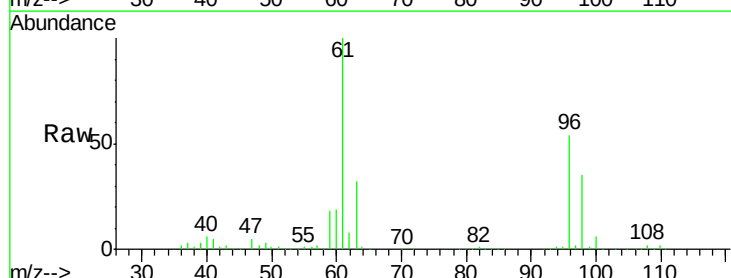
MMDadoda
4/1/2019 1:22:51 AM

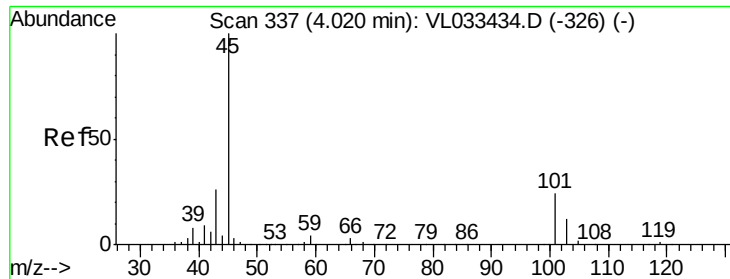


#18

1,1-Dichloroethene
Concen: 9.501 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033443.D
Acq: 25 Mar 2019 19:34

Tgt Ion	96	Resp	378667
Ion Ratio	96	100	
Lower	61	184.0	149.8
Upper	98	65.0	48.7
			73.1





#19

Isopropyl Alcohol

Concen: 9.702 ppbv

RT: 4.02 min Scan# 337

Delta R.T. -0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

Instrument :

MSVOA_L

ClientSampleId :

VL0325ABS01

Tot Ion: 45 Resp: 567059

Ion Ratio Lower Upper

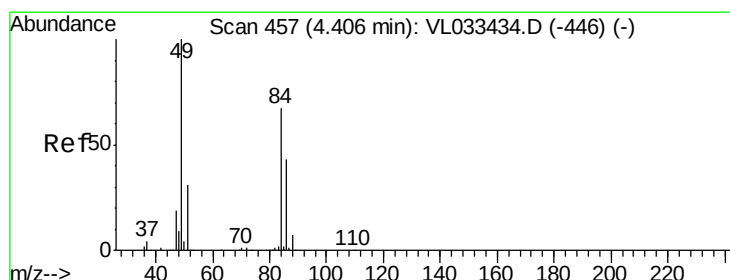
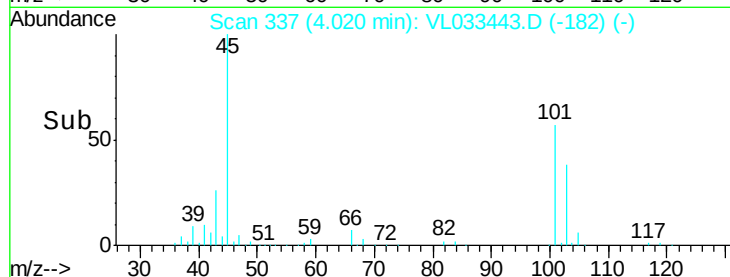
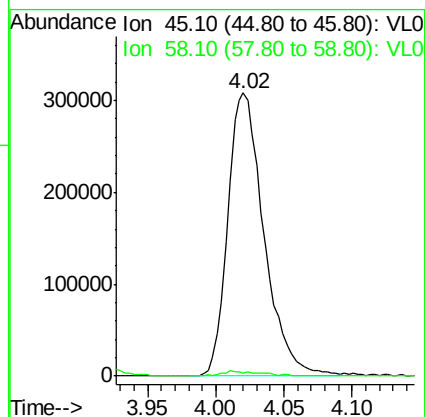
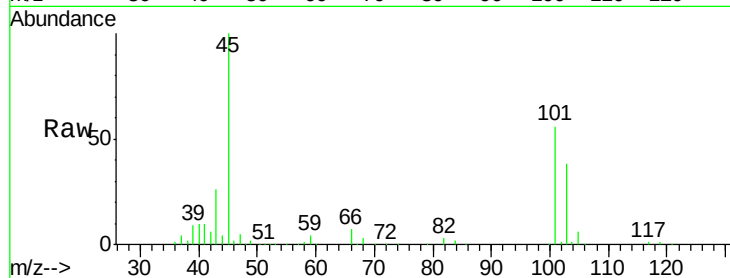
45 100

58 2.3 1.4 2.2#

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4/1/2019 1:22:51 AM



#20

Methylene Chloride

Concen: 8.655 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

Tgt Ion: 84 Resp: 339501

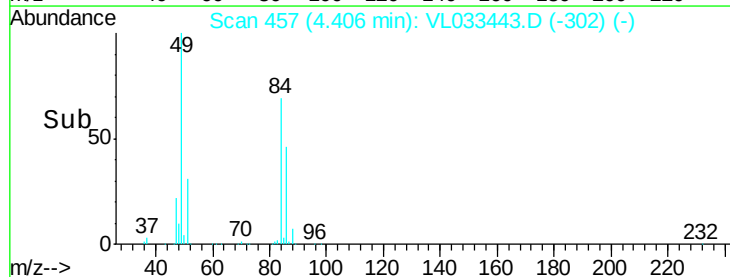
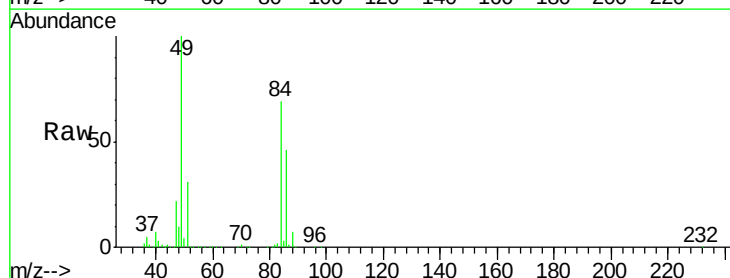
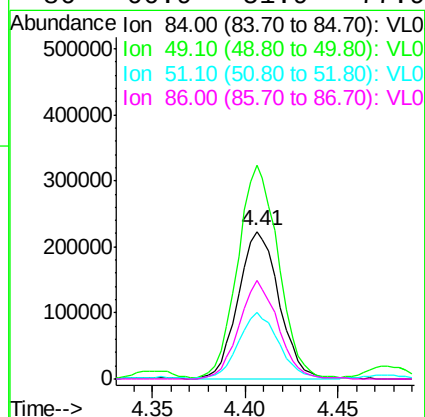
Ion Ratio Lower Upper

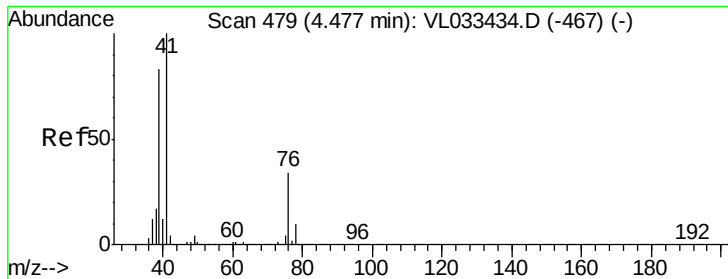
84 100

49 144.2 120.0 180.0

51 44.6 36.7 55.1

86 66.9 51.9 77.9





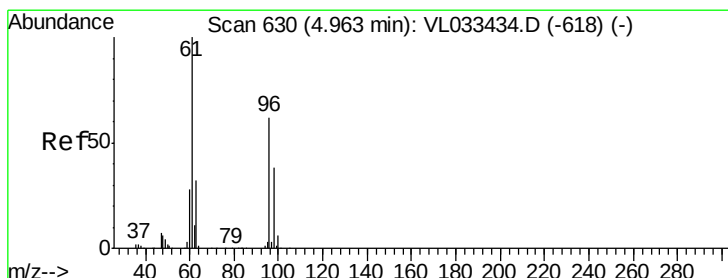
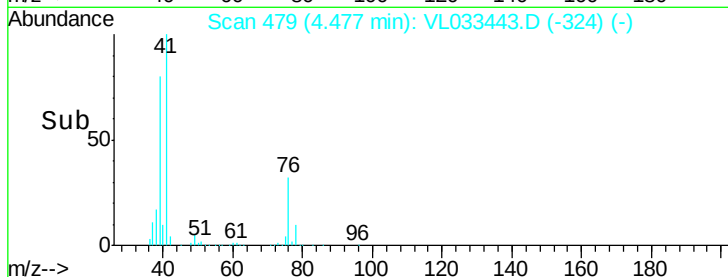
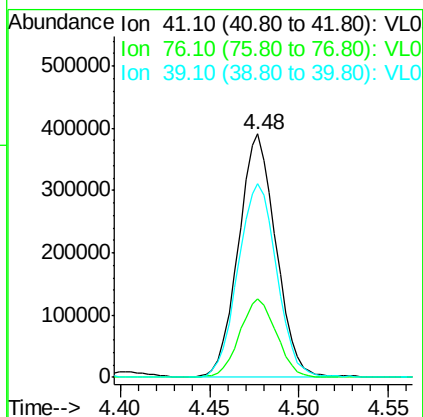
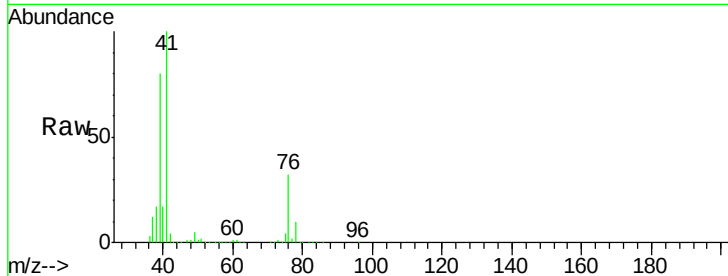
#21
Allvl Chloride
Concen: 9.756 ppbv
RT: 4.48 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL033443.D
Acq: 25 Mar 2019 19:34

Instrument :
MSVOA_L
ClientSampleId :
VL0325ABS01

Tot Ion:	41	Resp:	569903
Ion	Ratio	Lower	Upper
41	100		
76	32.2	25.4	38.2
39	83.2	65.3	97.9

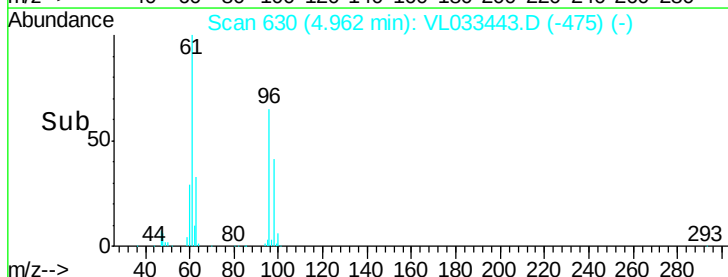
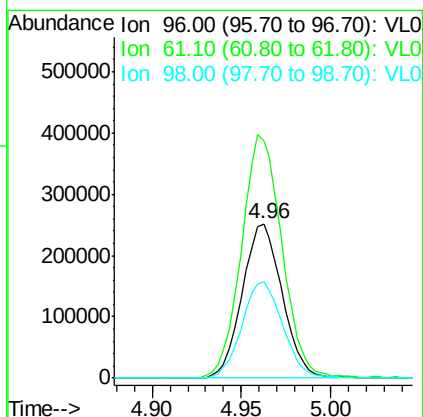
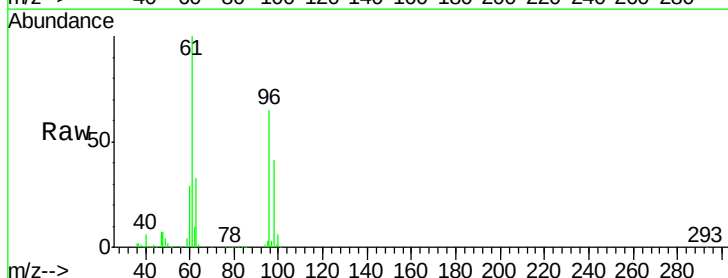
Manual Integrations
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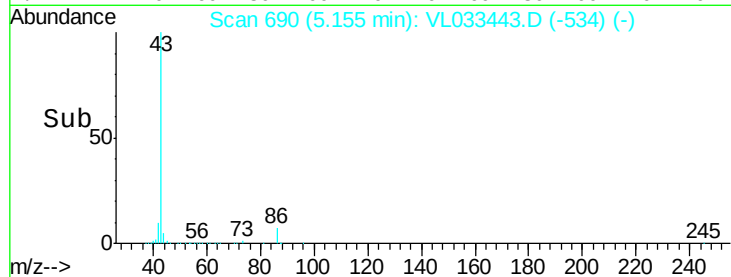
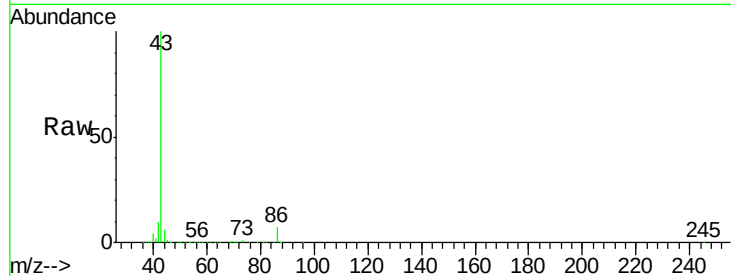
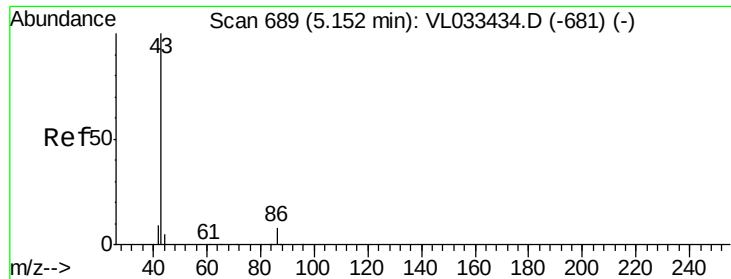
MMDadoda
4/1/2019 1:22:51 AM



#22
trans-1,2-Dichloroethene
Concen: 9.507 ppbv
RT: 4.96 min Scan# 630
Delta R.T. -0.00 min
Lab File: VL033443.D
Acq: 25 Mar 2019 19:34

Tgt Ion:	96	Resp:	395283
Ion	Ratio	Lower	Upper
96	100		
61	154.1	128.9	193.3
98	62.7	49.5	74.3





#23

Vinyl Acetate

Concen: 9.950 ppbv

RT: 5.16 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

Tot Ion: 43 Resp: 1308644

Ion Ratio Lower Upper

43 100

86 7.4 5.6 8.4

42 9.9 8.0 12.0

44 5.4 3.9 5.9

Instrument :

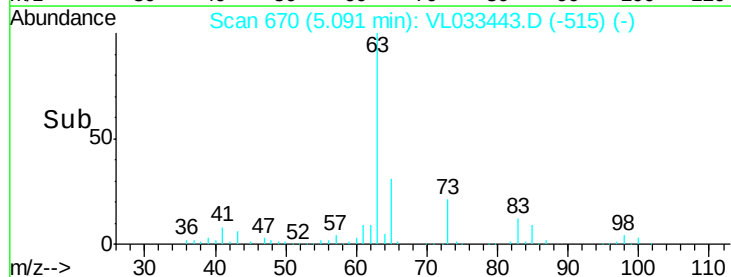
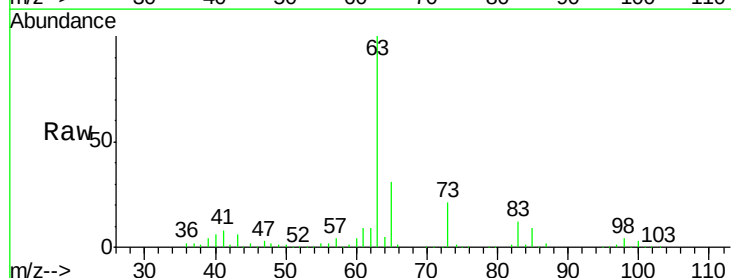
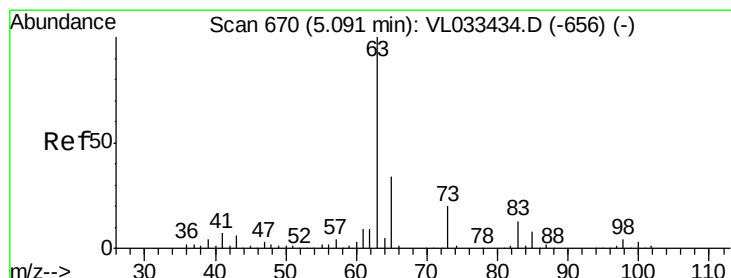
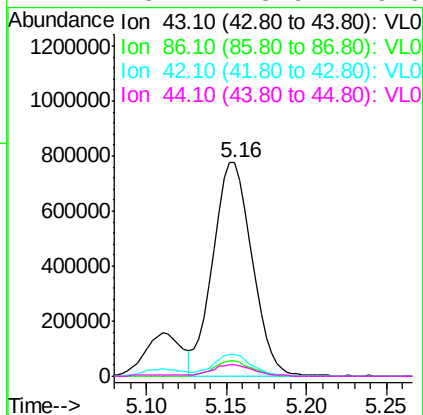
MSVOA_L

ClientSampleId :

VL0325ABS01

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MMDadoda
4/1/2019 1:22:51 AM



#24

1,1-Dichloroethane

Concen: 9.324 ppbv

RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

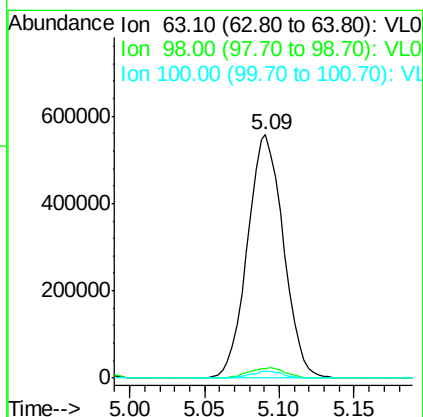
Tgt Ion: 63 Resp: 931558

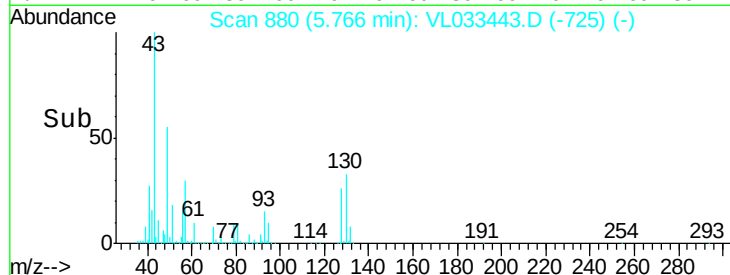
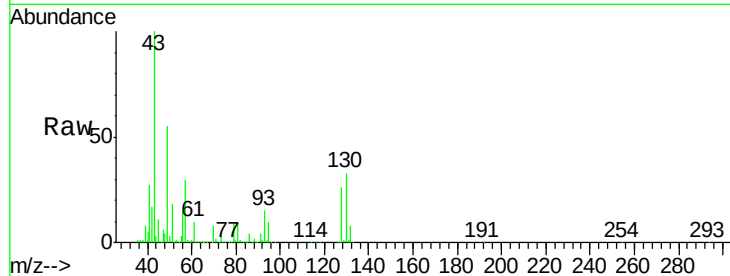
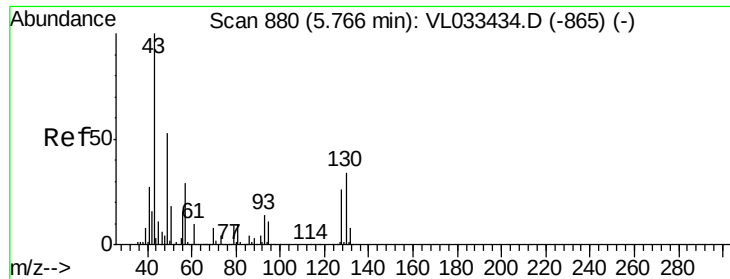
Ion Ratio Lower Upper

63 100

98 3.9 2.2 6.6

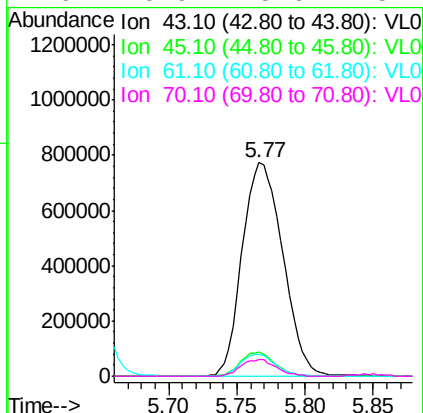
100 2.9 1.5 4.4





#25
Ethyl Acetate
Concen: 9.315 ppbv
RT: 5.77 min Scan# 880
Delta R.T. -0.00 min
Lab File: VL033443.D
Acq: 25 Mar 2019 19:34

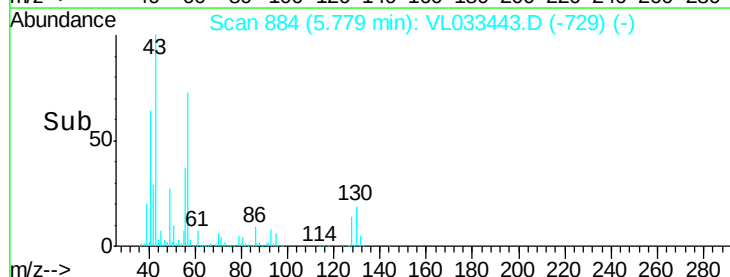
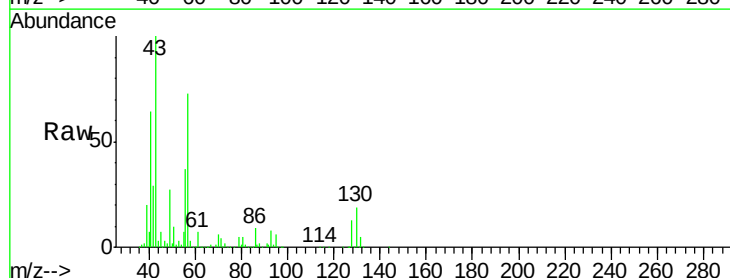
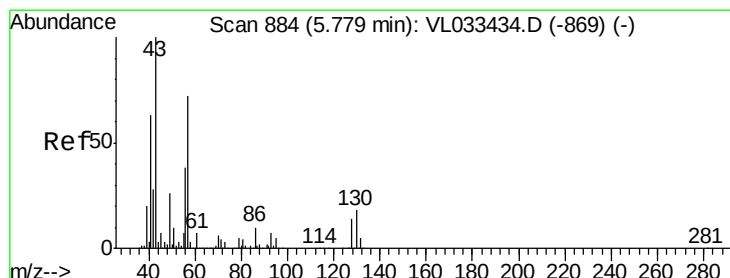
Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.9	7.8	11.6	
61	9.2	7.3	10.9	
70	6.9	5.6	8.4	



Instrument :
MSVOA_L
ClientSampleId :
VL0325ABS01

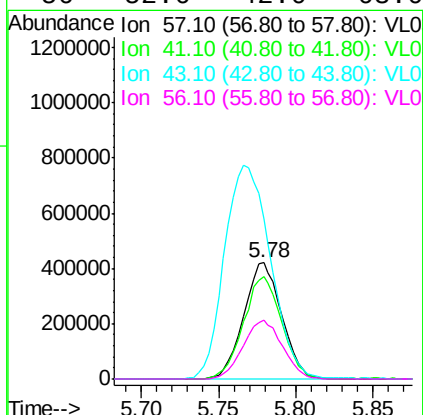
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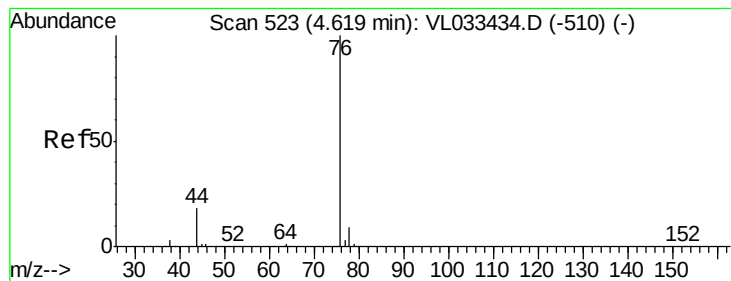
MMDadoda
4/1/2019 1:22:51 AM



#26
Hexane
Concen: 9.370 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033443.D
Acq: 25 Mar 2019 19:34

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	90.8	70.7	106.1	
43	224.5	182.6	274.0	
56	52.6	42.0	63.0	





#27

Carbon Disulfide

Concen: 10.473 ppbv

RT: 4.62 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

Instrument :

MSVOA_L

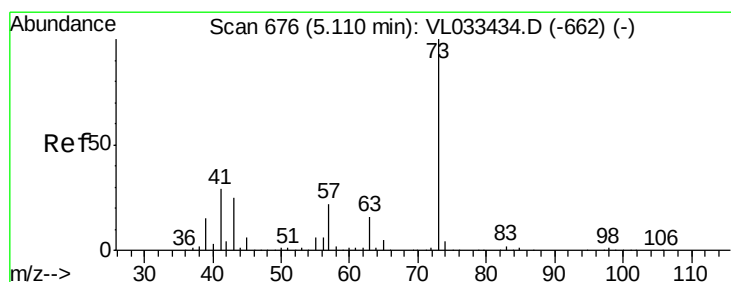
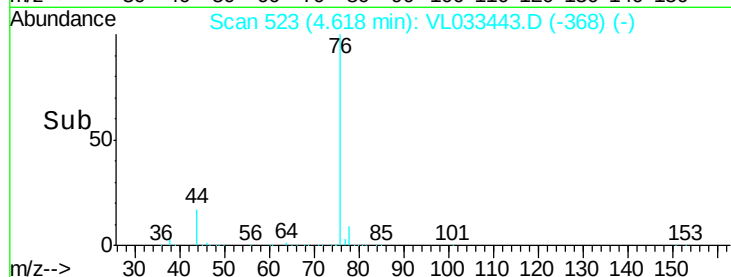
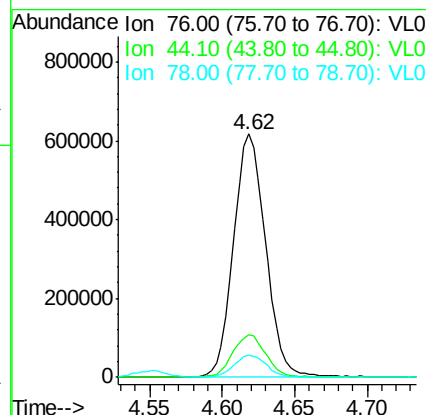
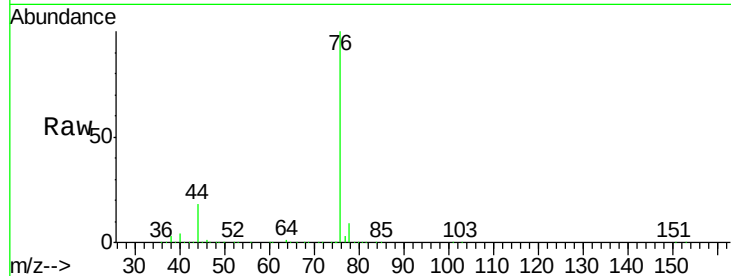
ClientSampleId :

VL0325ABS01

Tot Ion:	76	Resp:	949398
Ion	Ratio	Lower	Upper
76	100		
44	17.9	14.8	22.2
78	9.3	7.6	11.4

Manual Integrations
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MMDadoda
4/1/2019 1:22:51 AM



#28

Methyl tert-Butyl Ether

Concen: 9.757 ppbv

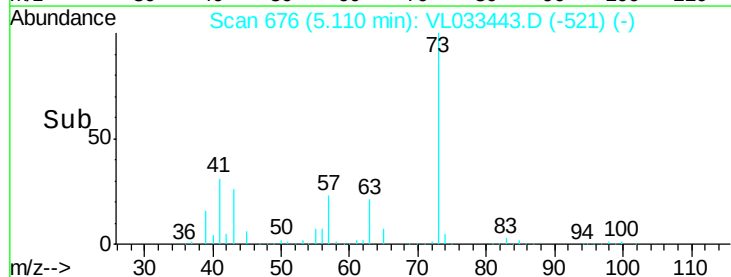
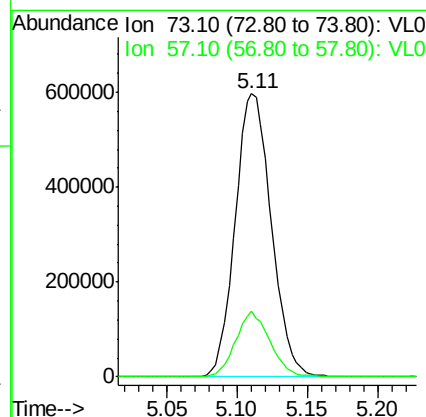
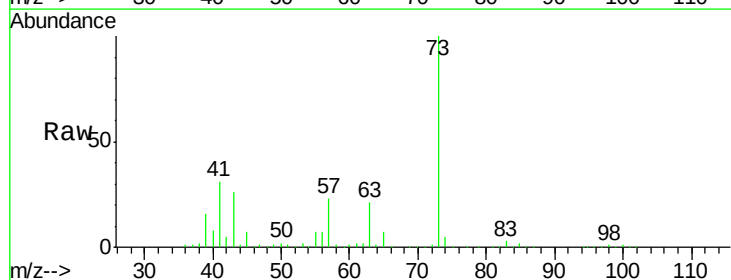
RT: 5.11 min Scan# 676

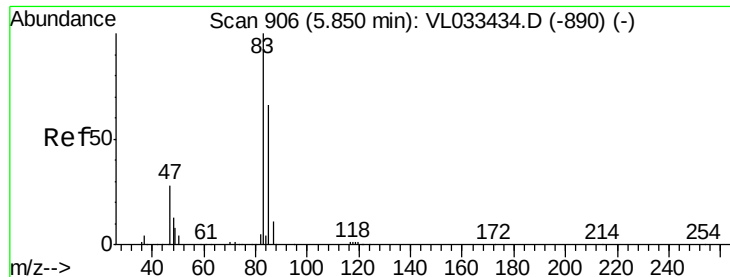
Delta R.T. -0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

Tgt Ion:	73	Resp:	1071219
Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.4	26.2





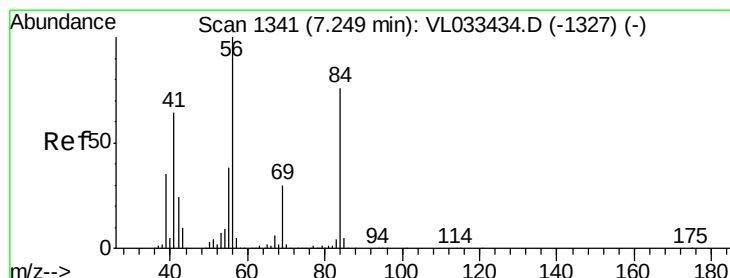
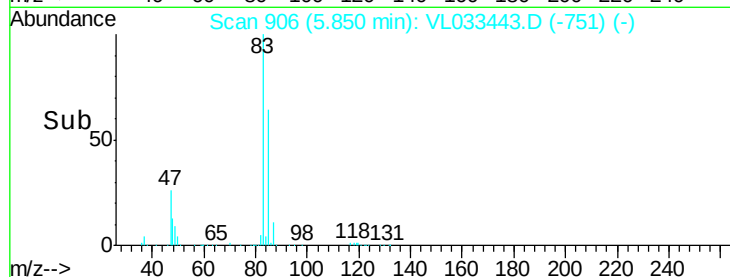
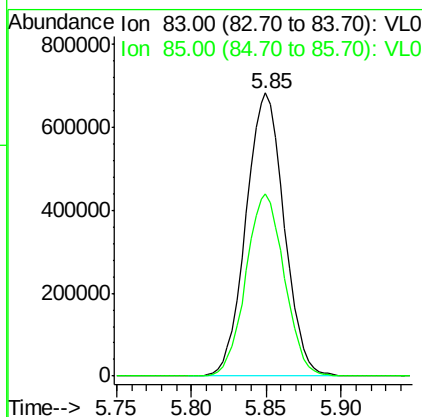
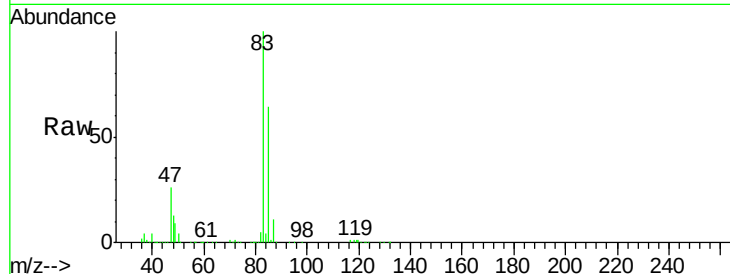
#29
Chloroform
Concen: 9.274 ppbv
RT: 5.85 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL033443.D
Acq: 25 Mar 2019 19:34

Instrument :
MSVOA_L
ClientSampleId :
VL0325ABS01

Tot Ion: 83 Resp: 1211838
Ion Ratio Lower Upper
83 100
85 64.1 52.6 79.0

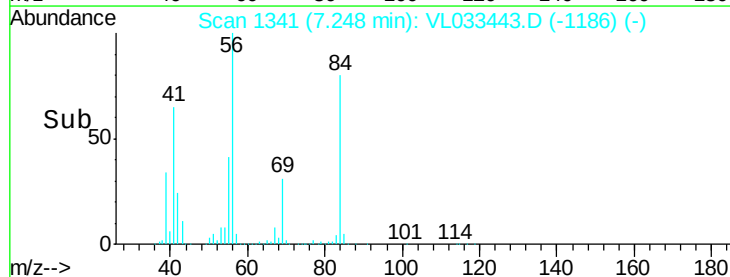
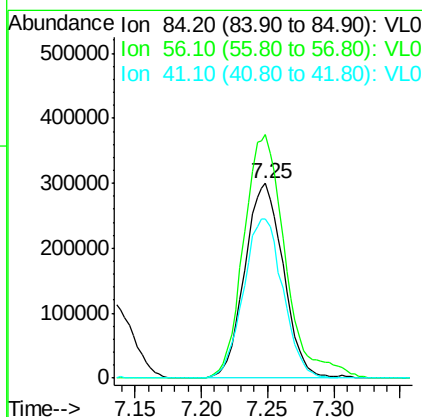
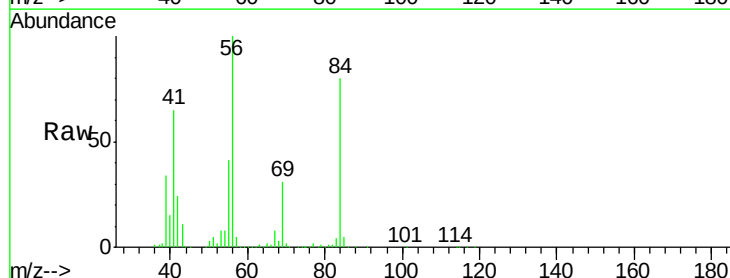
Manual Integrations
APPROVED

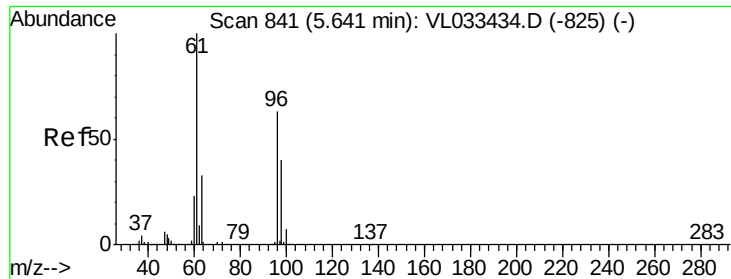
MMDadoda
4/1/2019 1:22:51 AM



#30
Cyclohexane
Concen: 10.064 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VL033443.D
Acq: 25 Mar 2019 19:34

Tgt Ion: 84 Resp: 606945
Ion Ratio Lower Upper
84 100
56 134.7 109.7 164.5
41 84.0 68.2 102.2





#31

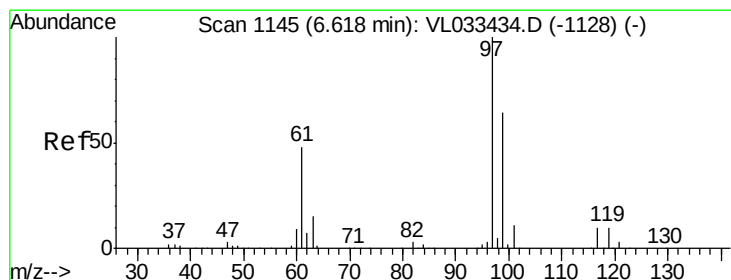
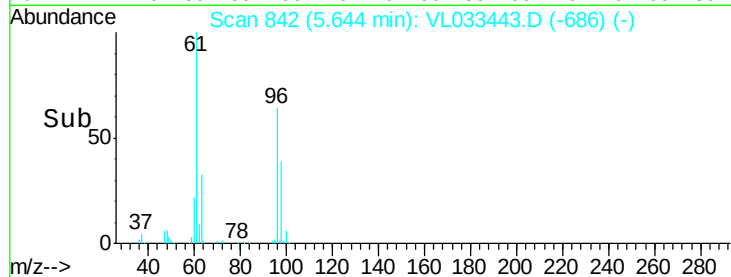
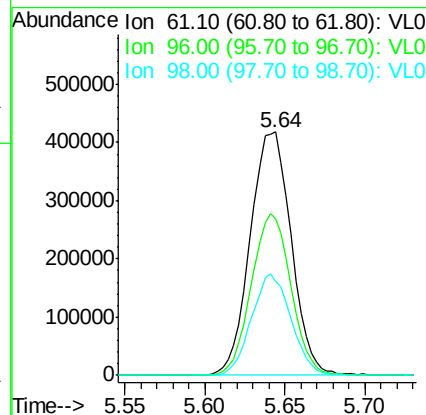
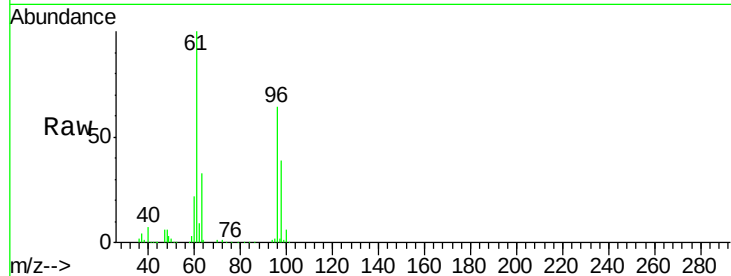
cis-1,2-Dichloroethene
 Concen: 9.668 ppbv
 RT: 5.64 min Scan# 842
 Delta R.T. 0.00 min
 Lab File: VL033443.D
 Acq: 25 Mar 2019 19:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0325ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	64.3	50.6	76.0
98	38.6	32.2	48.2

Manual Integrations
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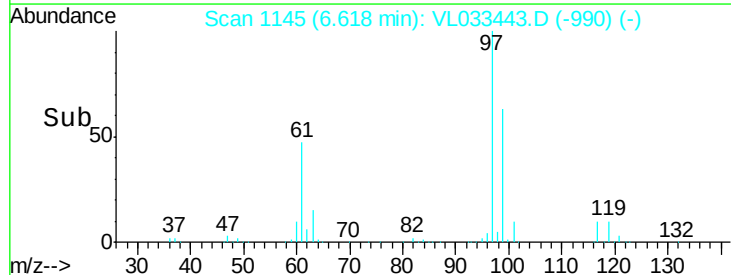
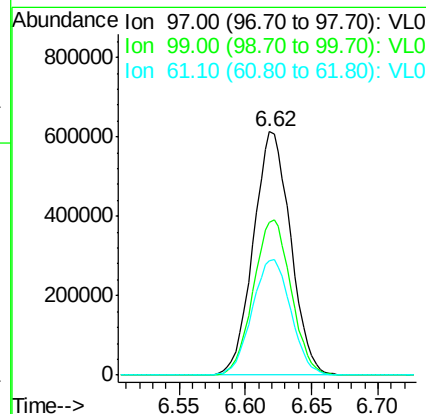
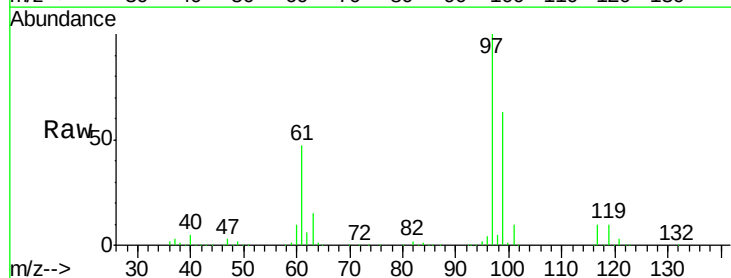
MMDadoda
 4/1/2019 1:22:51 AM

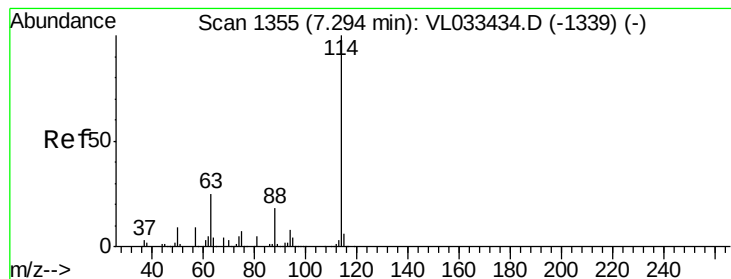


#32

1,1,1-Trichloroethane
 Concen: 9.646 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. -0.00 min
 Lab File: VL033443.D
 Acq: 25 Mar 2019 19:34

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.5	77.3
61	49.4	38.8	58.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

Instrument :

MSVOA_L

ClientSampleId :

VL0325ABS01

Tot Ion:114 Resp: 1804219

Ion Ratio Lower Upper

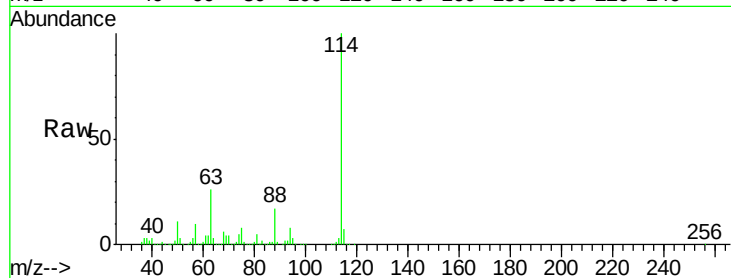
114 100

63 27.1 21.5 32.3

88 18.2 14.5 21.7

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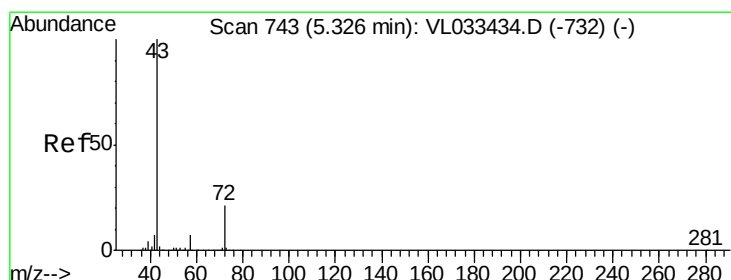
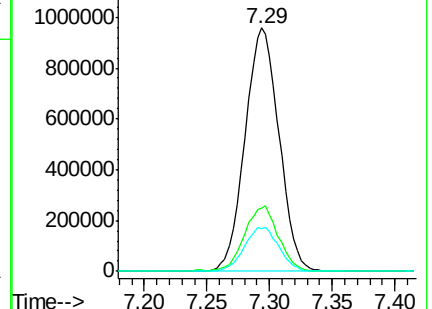
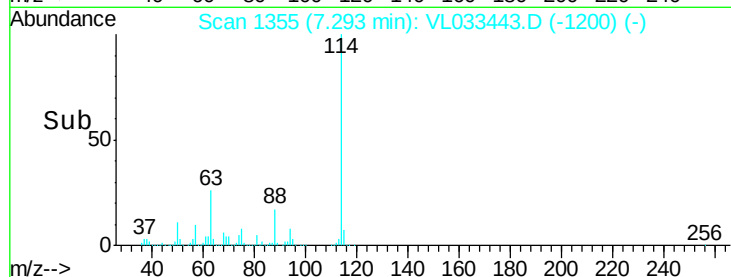
MMDadoda
4/1/2019 1:22:51 AM



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 9.589 ppbv

RT: 5.33 min Scan# 743

Delta R.T. -0.00 min

Lab File: VL033443.D

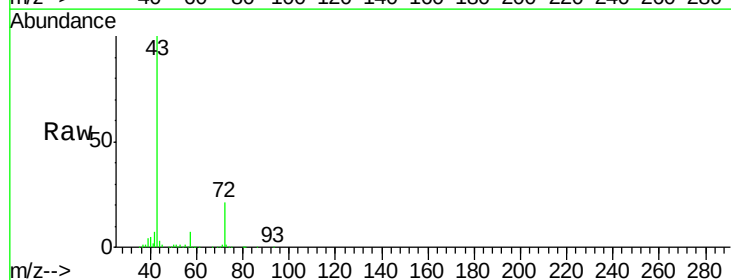
Acq: 25 Mar 2019 19:34

Tgt Ion: 43 Resp: 1039476

Ion Ratio Lower Upper

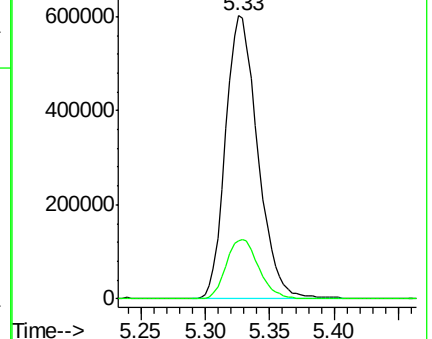
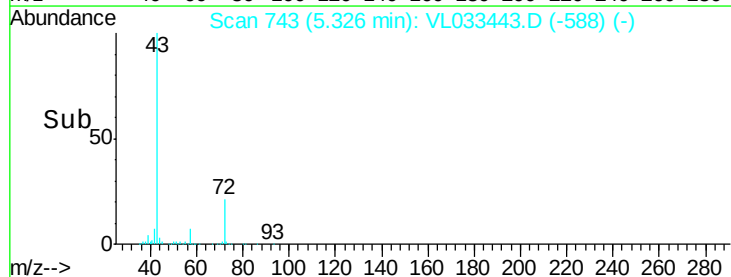
43 100

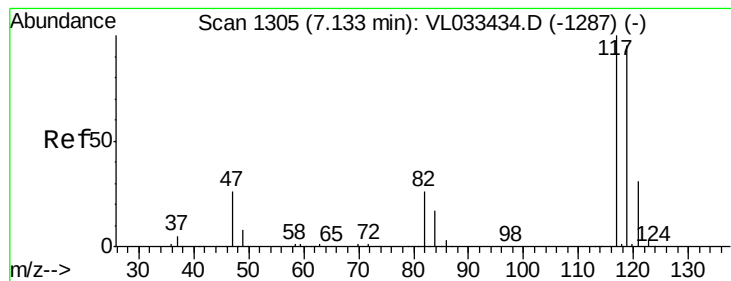
72 21.3 17.4 26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 10.049 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

Instrument :

MSVOA_L

ClientSampleId :

VL0325ABS01

Tot Ion:117 Resp: 1284140

Ion Ratio Lower Upper

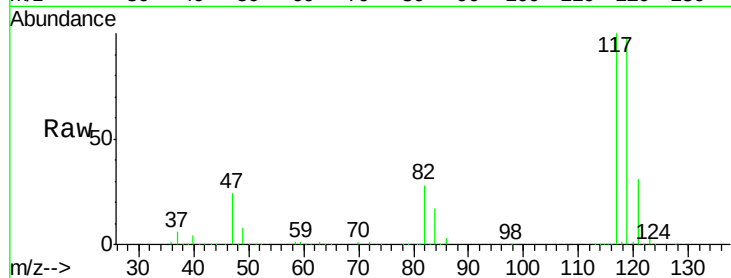
117 100

119 98.0 75.8 113.8

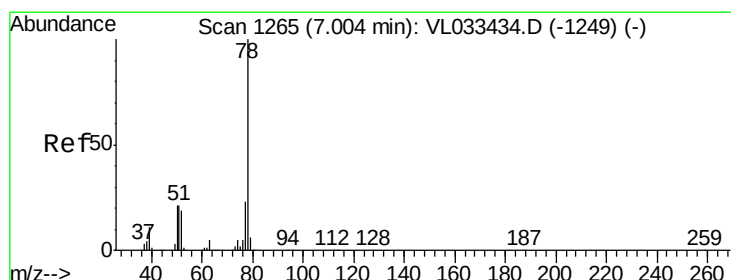
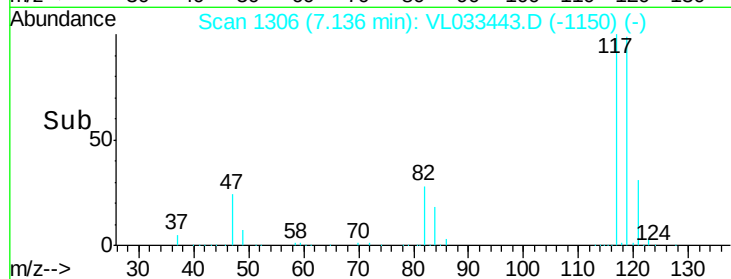
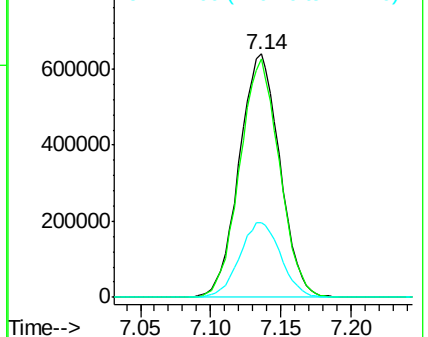
121 30.8 24.7 37.1

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



#36

Benzene

Concen: 9.879 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

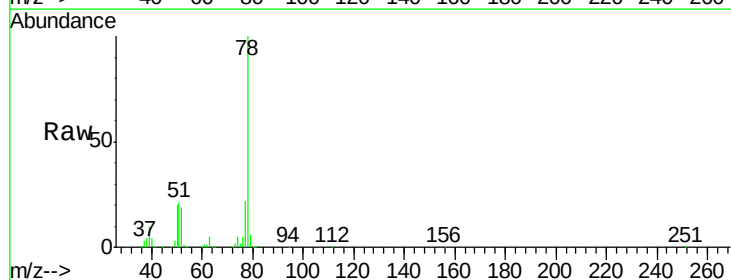
Tgt Ion: 78 Resp: 1495600

Ion Ratio Lower Upper

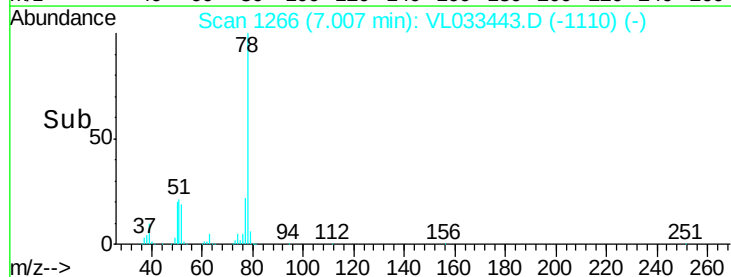
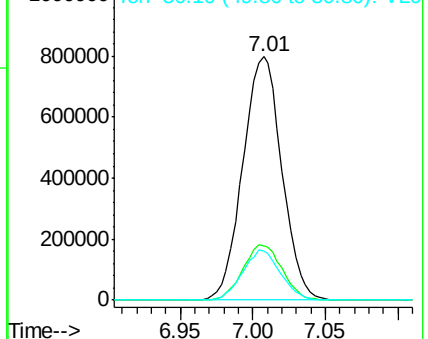
78 100

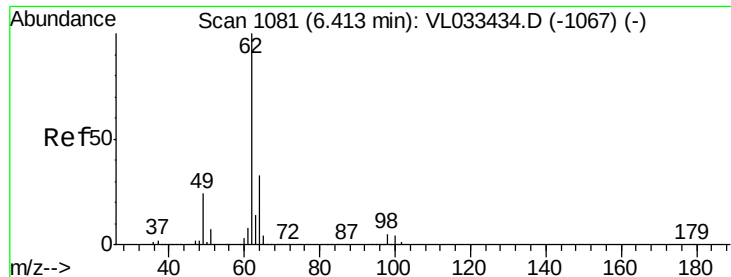
77 22.3 18.1 27.1

50 19.9 16.7 25.1



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





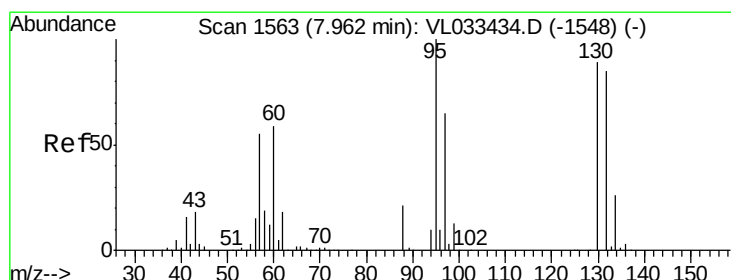
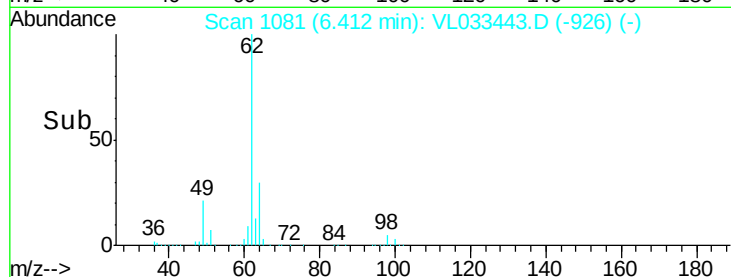
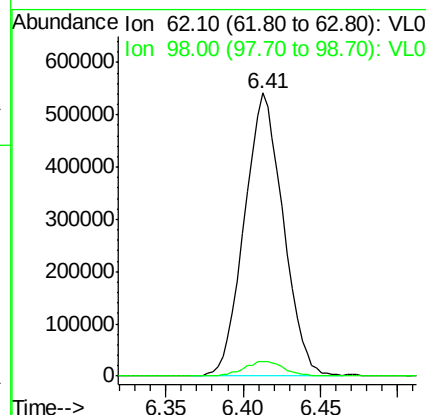
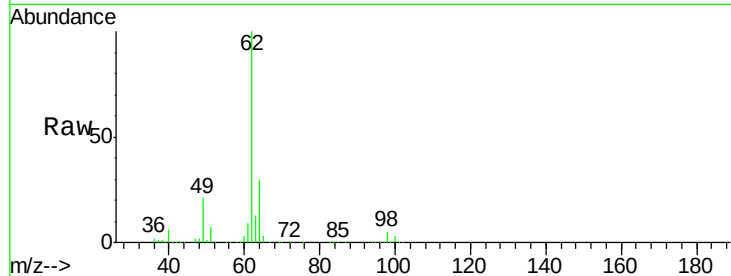
#37
 1,2-Dichloroethane
 Concen: 9.320 ppbv
 RT: 6.41 min Scan# 1081
 Delta R.T. -0.00 min
 Lab File: VL033443.D
 Acq: 25 Mar 2019 19:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0325ABS01

Tot Ion	Ratio	Resp	Lower	Upper
62	100	945656		
98	5.4		4.4	6.6

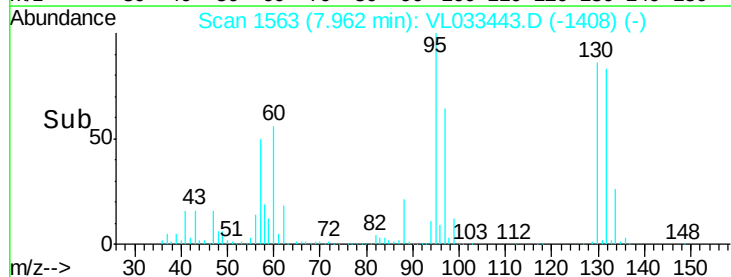
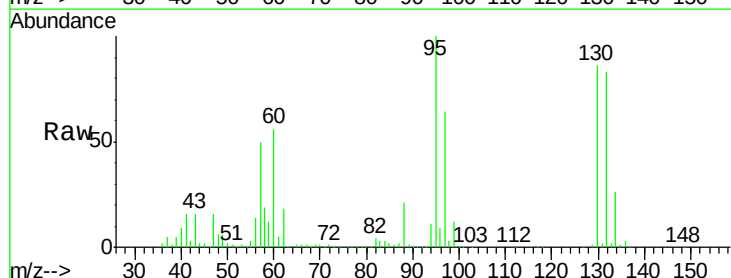
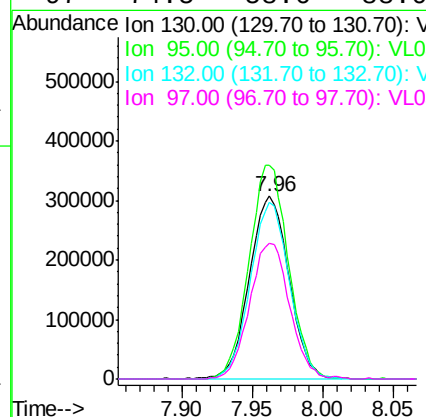
Manual Integrations
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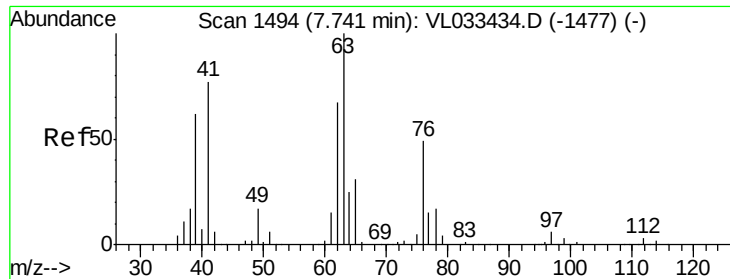
MMDadoda
 4/1/2019 1:22:51 AM



#38
 Trichloroethene
 Concen: 10.503 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. -0.00 min
 Lab File: VL033443.D
 Acq: 25 Mar 2019 19:34

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	598375		
95	117.3		89.8	134.8
132	97.2		76.6	115.0
97	74.5		58.6	88.0





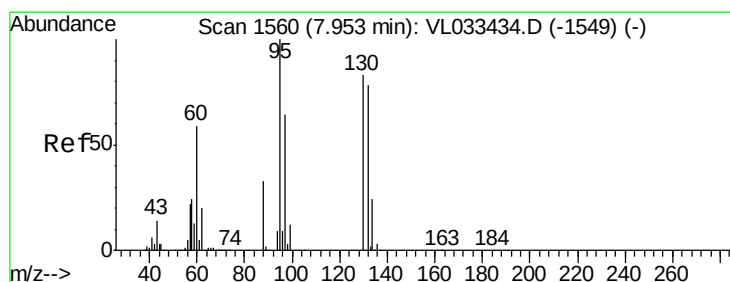
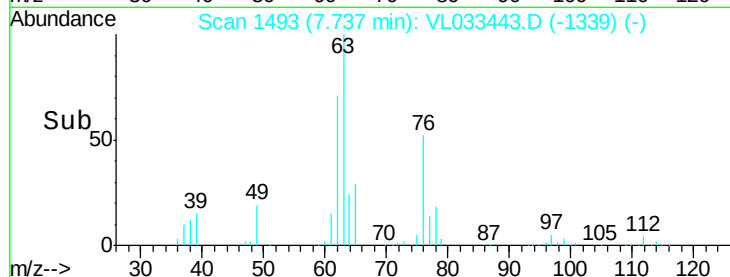
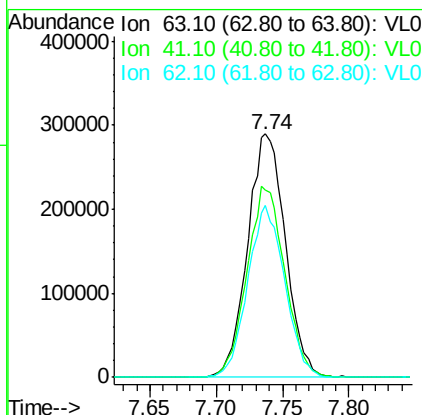
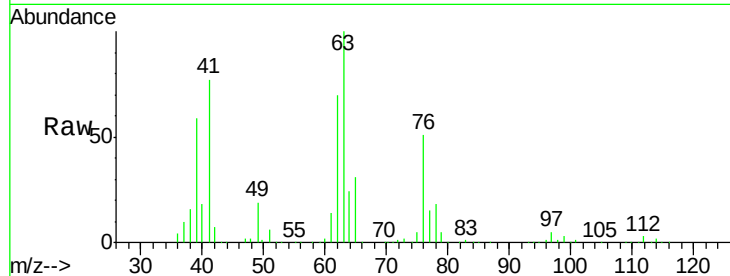
#39
 1,2-Dichloropropane
 Concen: 9.653 ppbv
 RT: 7.74 min Scan# 1493
 Delta R.T. -0.00 min
 Lab File: VL033443.D
 Acq: 25 Mar 2019 19:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0325ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	76.9	61.2	91.8
62	70.4	54.0	81.0

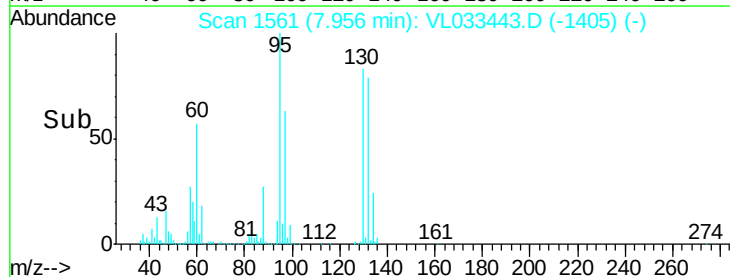
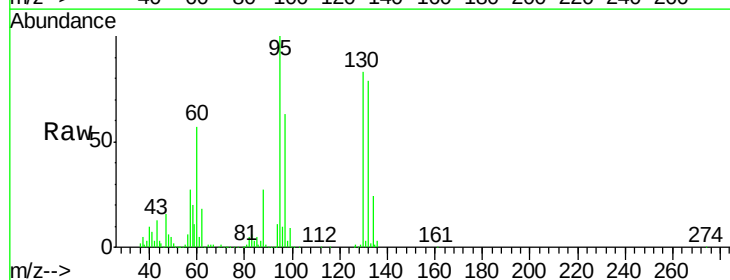
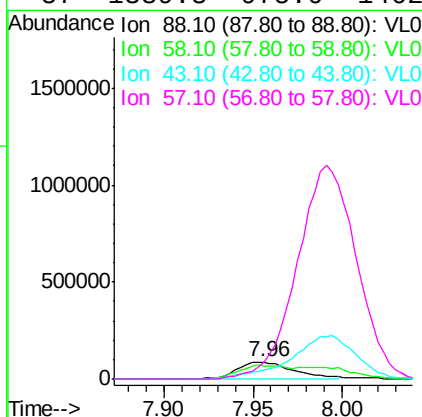
Manual Integrations
 APPROVED

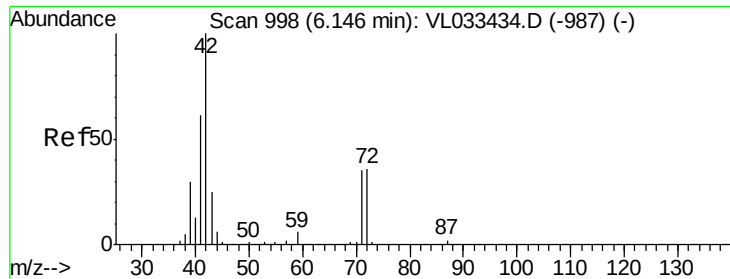
MMDadoda
 4/1/2019 1:22:51 AM



#40
 1,4-Dioxane
 Concen: 8.989 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. 0.00 min
 Lab File: VL033443.D
 Acq: 25 Mar 2019 19:34

Tgt Ion	Ratio	Lower	Upper
88	100		
58	140.7	105.6	158.4
43	298.1	216.7	325.1
57	1339.3	975.0	1462.4





#41

Tetrahydrofuran

Concen: 9.899 ppbv

RT: 6.15 min Scan# 998

Delta R.T. -0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

Instrument :

MSVOA_L

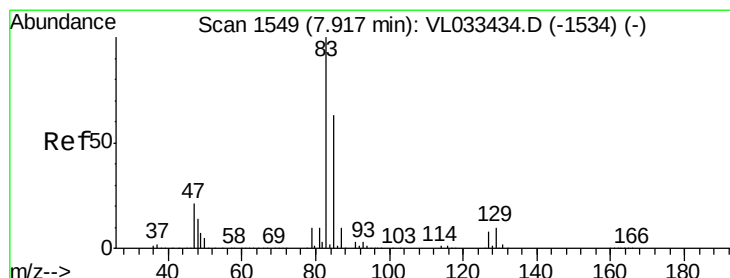
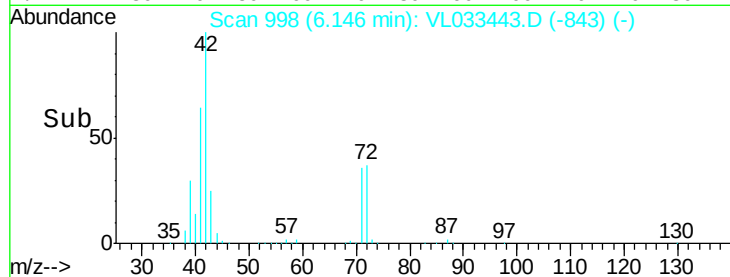
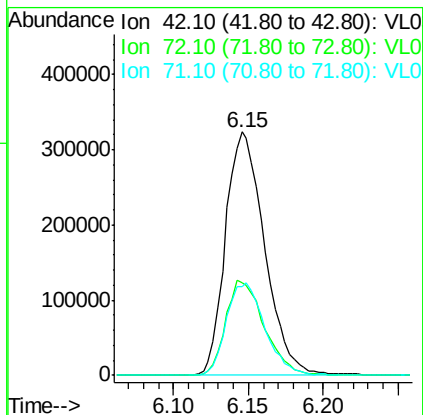
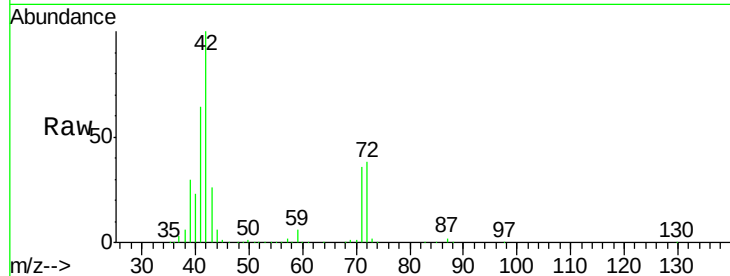
ClientSampleId :

VL0325ABS01

Tot Ion:	42	Resp:	590180
Ion	Ratio	Lower	Upper
42	100		
72	38.6	30.2	45.2
71	37.5	29.4	44.2

Manual Integrations
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4/1/2019 1:22:51 AM



#42

Bromodichloromethane

Concen: 9.838 ppbv

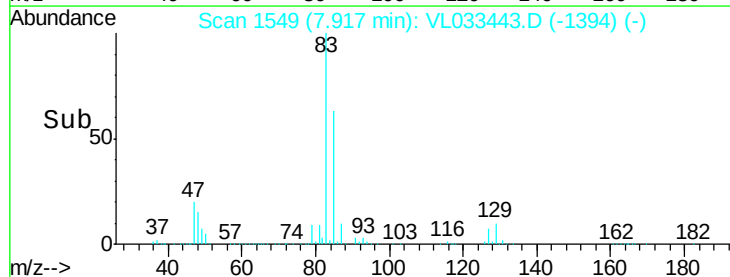
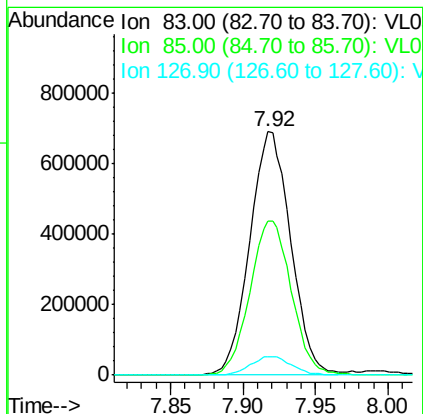
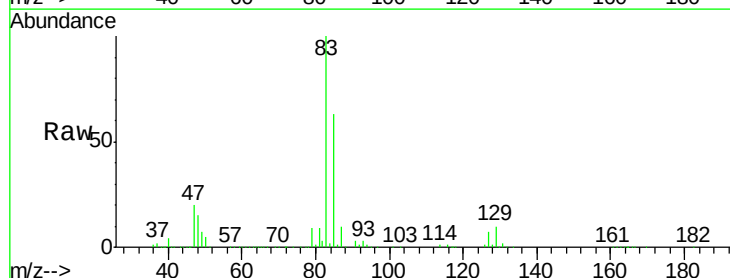
RT: 7.92 min Scan# 1549

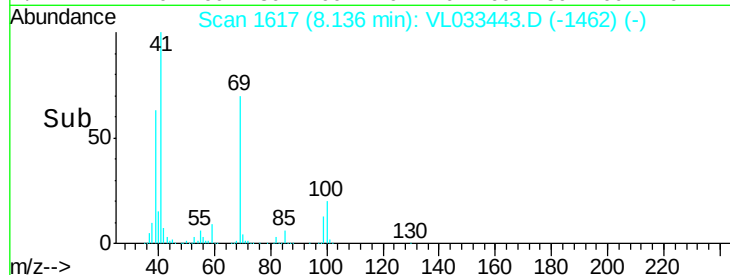
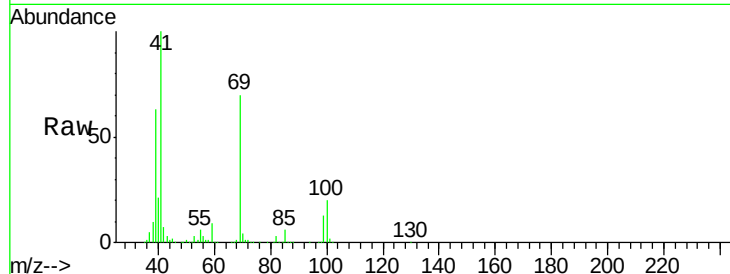
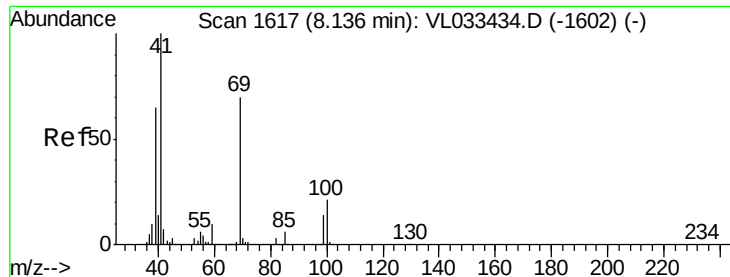
Delta R.T. -0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

Tgt Ion:	83	Resp:	1359638
Ion	Ratio	Lower	Upper
83	100		
85	63.1	50.7	76.1
127	7.3	6.6	9.8





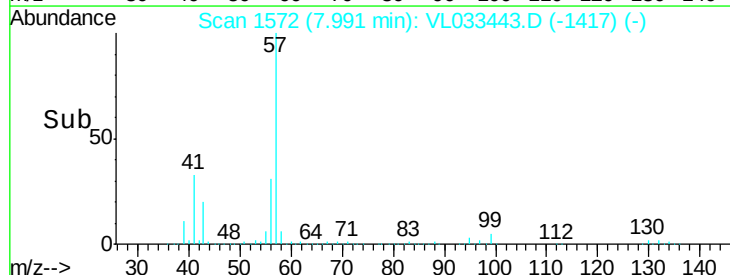
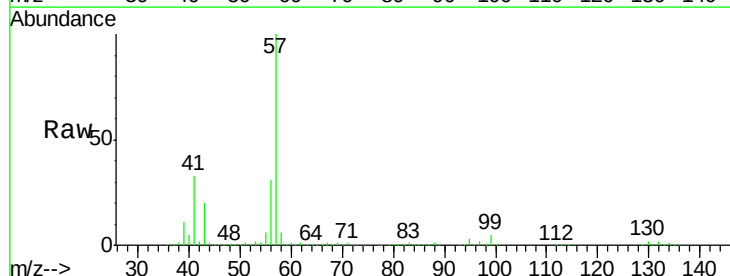
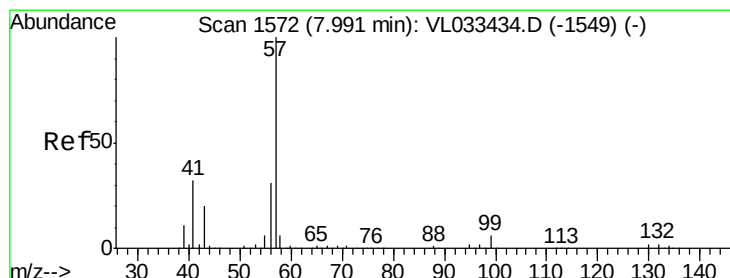
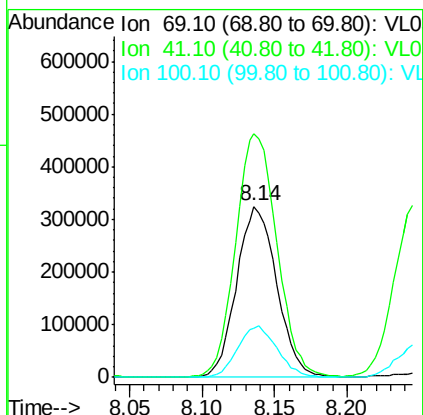
#43
Methyl Methacrylate
Concen: 10.119 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. -0.00 min
Lab File: VL033443.D
Acq: 25 Mar 2019 19:34

Tot Ion	Ratio	Lower	Upper
69	100		
41	147.3	116.6	174.8
100	29.9	24.4	36.6

Instrument :
MSVOA_L
ClientSampleId :
VL0325ABS01

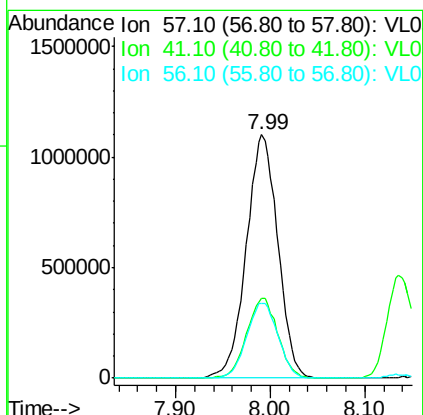
Manual Integrations
APPROVED

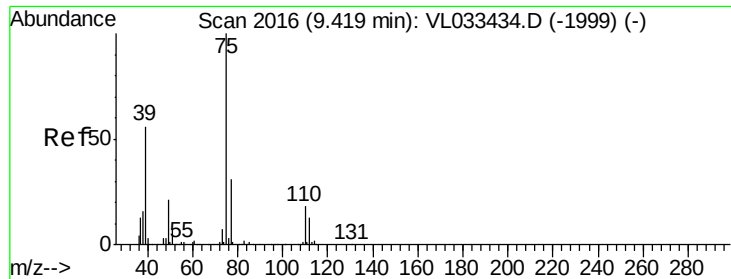
MMDadoda
4/1/2019 1:22:51 AM



#44
2,2,4-Trimethylpentane
Concen: 9.617 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VL033443.D
Acq: 25 Mar 2019 19:34

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.6	26.0	39.0
56	30.8	24.6	37.0





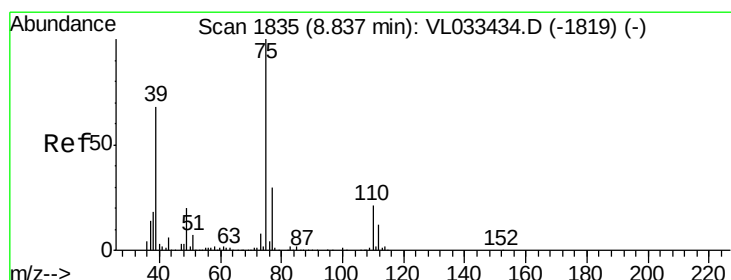
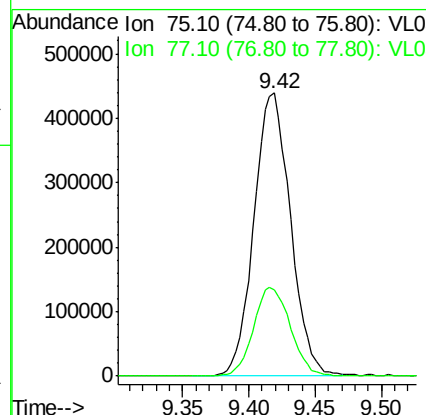
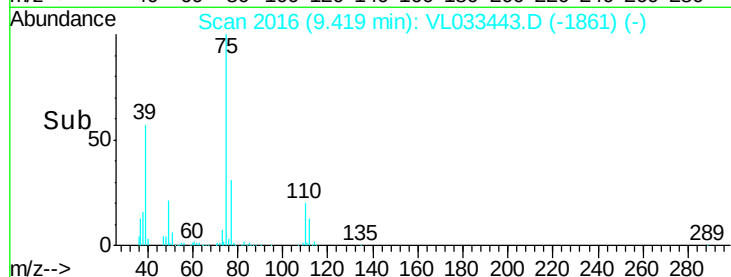
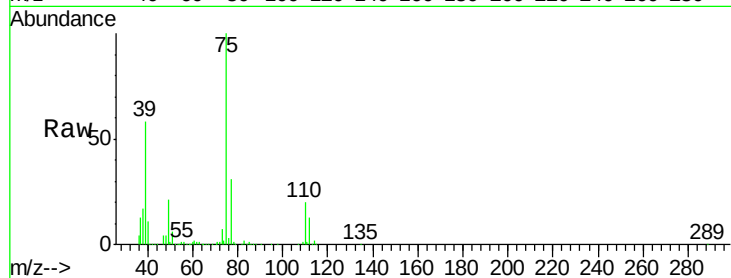
#45
t-1,3-Dichloropropene
Concen: 11.200 ppbv
RT: 9.42 min Scan# 2016
Delta R.T. -0.00 min
Lab File: VL033443.D
Acq: 25 Mar 2019 19:34

Instrument :
MSVOA_L
ClientSampleId :
VL0325ABS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.6	24.5	36.7

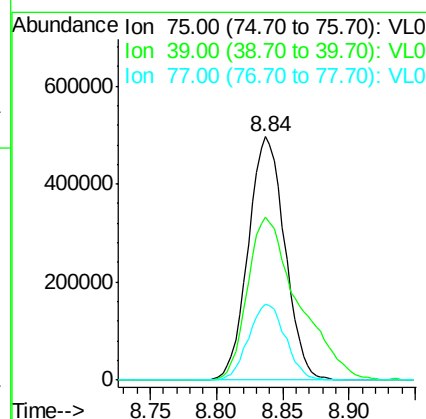
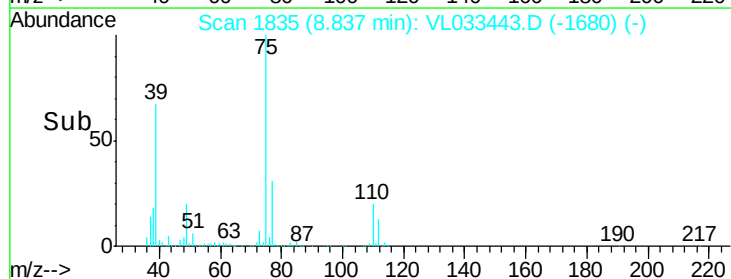
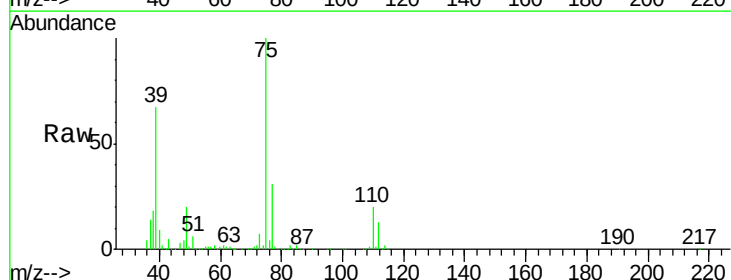
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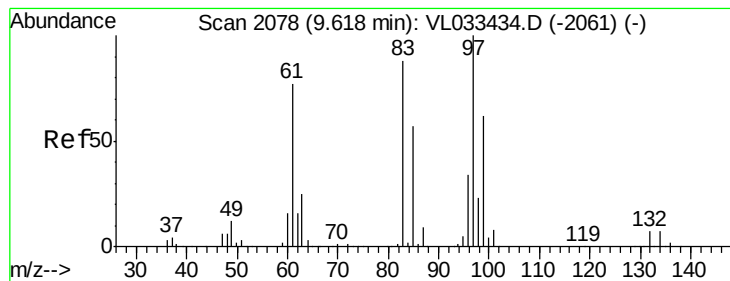
MMDadoda
4/1/2019 1:22:51 AM



#46
cis-1,3-Dichloropropene
Concen: 10.800 ppbv
RT: 8.84 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VL033443.D
Acq: 25 Mar 2019 19:34

Tgt Ion	Ratio	Lower	Upper
75	100		
39	66.9	54.1	81.1
77	31.2	23.9	35.9





#47

1,1,2-Trichloroethane

Concen: 9.593 ppbv

RT: 9.61 min Scan# 2077

Delta R.T. -0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

Instrument :

MSVOA_L

ClientSampleId :

VL0325ABS01

Tot Ion: 97 Resp: 645999

Ion Ratio Lower Upper

97 100

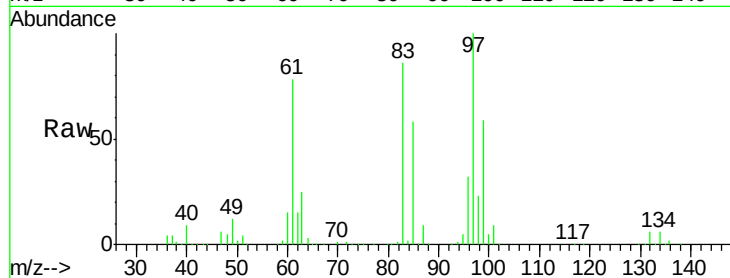
83 85.8 70.5 105.7

85 58.2 45.6 68.4

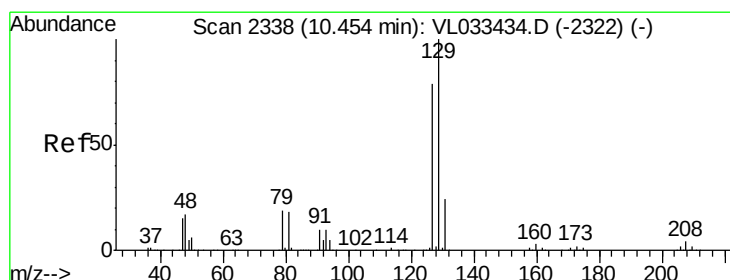
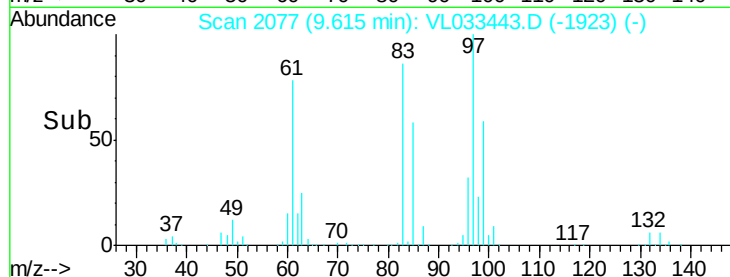
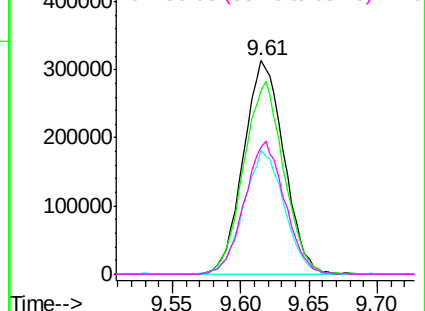
99 59.2 49.4 74.0

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Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 10.393 ppbv

RT: 10.45 min Scan# 2338

Delta R.T. -0.00 min

Lab File: VL033443.D

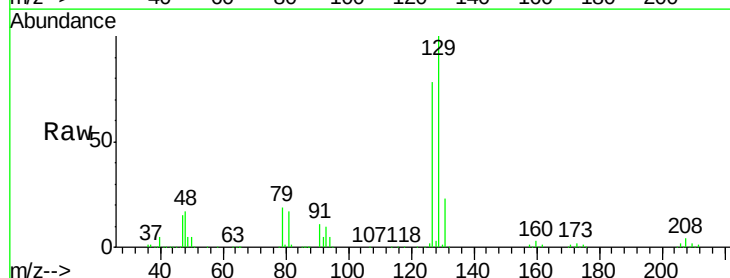
Acq: 25 Mar 2019 19:34

Tgt Ion: 129 Resp: 1180461

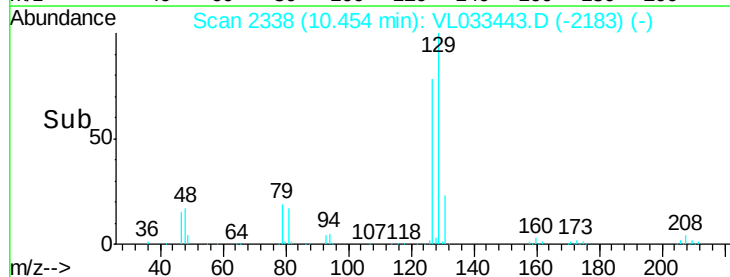
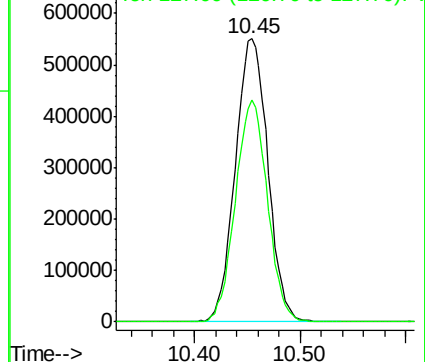
Ion Ratio Lower Upper

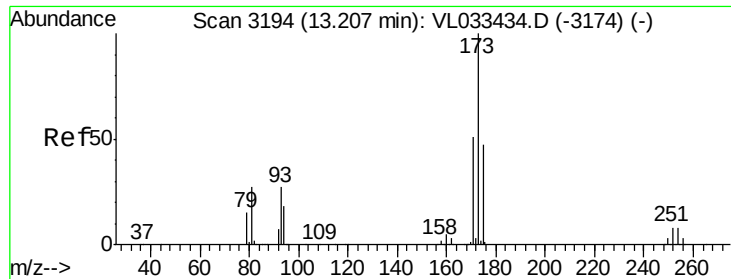
129 100

127 77.1 39.1 117.2



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 9.911 ppbv

RT: 13.21 min Scan# 3194

Delta R.T. -0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

Instrument :

MSVOA_L

ClientSampleId :

VL0325ABS01

Tot Ion:173 Resp: 1075411

Ion Ratio Lower Upper

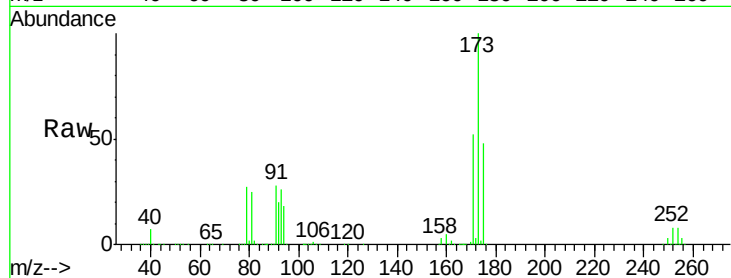
173 100

175 48.3 39.3 58.9

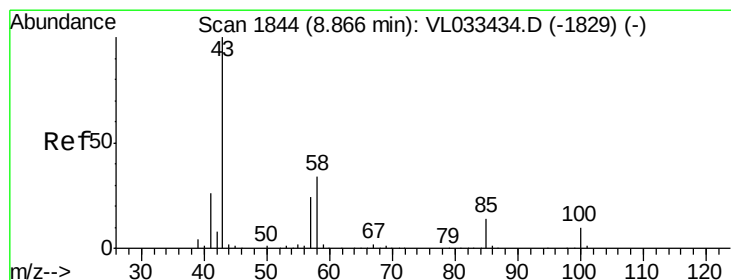
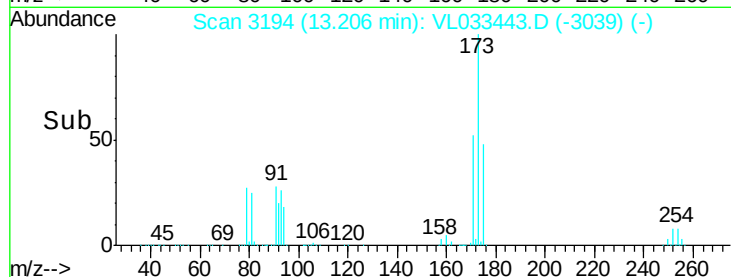
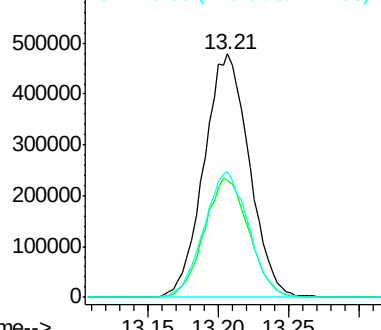
171 51.3 41.2 61.8

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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: 9.871 ppbv

RT: 8.87 min Scan# 1846

Delta R.T. 0.01 min

Lab File: VL033443.D

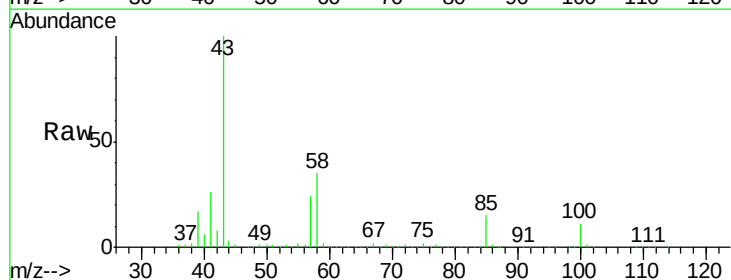
Acq: 25 Mar 2019 19:34

Tgt Ion: 43 Resp: 1566850

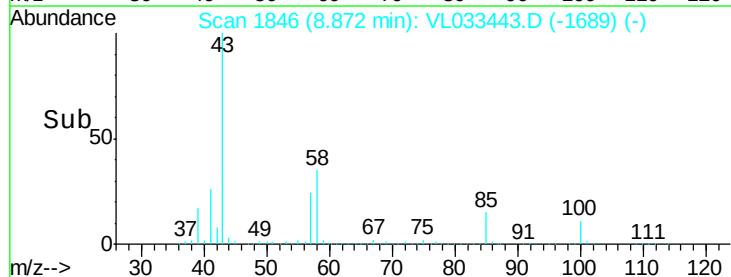
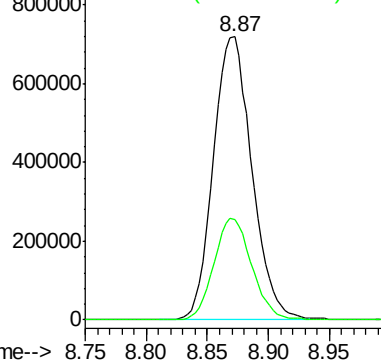
Ion Ratio Lower Upper

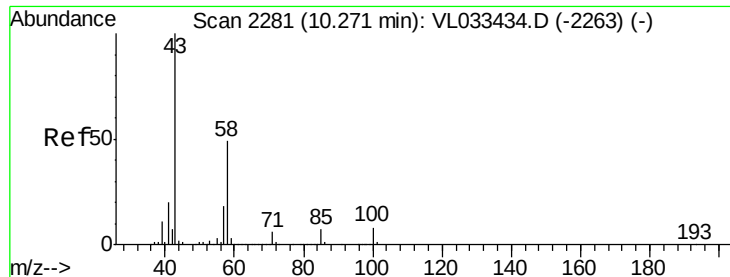
43 100

58 35.3 28.0 42.0



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 10.439 ppbv

RT: 10.27 min Scan# 2282

Delta R.T. 0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

Instrument :

MSVOA_L

ClientSampleId :

VL0325ABS01

Tot Ion: 43 Resp: 1235998

Ion Ratio Lower Upper

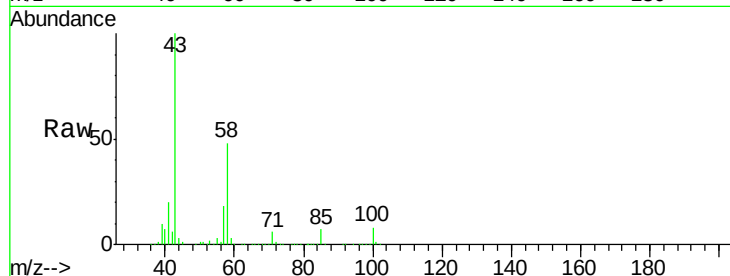
43 100

58 47.2 38.2 57.2

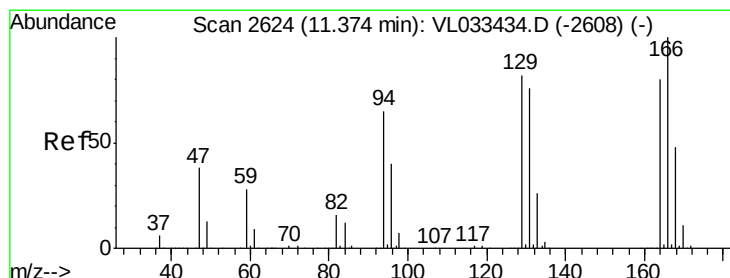
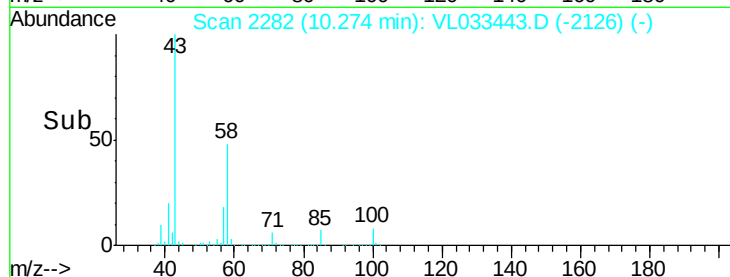
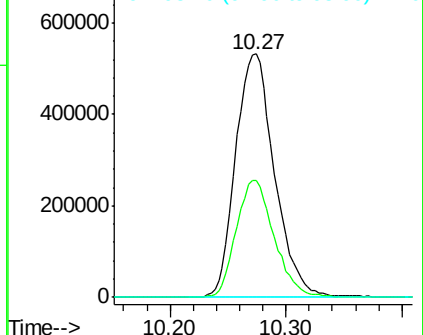
98 0.4 0.2 0.2#

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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 10.234 ppbv

RT: 11.38 min Scan# 2625

Delta R.T. 0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

Tgt Ion: 164 Resp: 584539

Ion Ratio Lower Upper

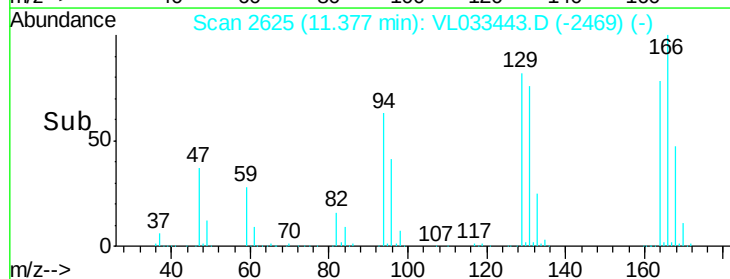
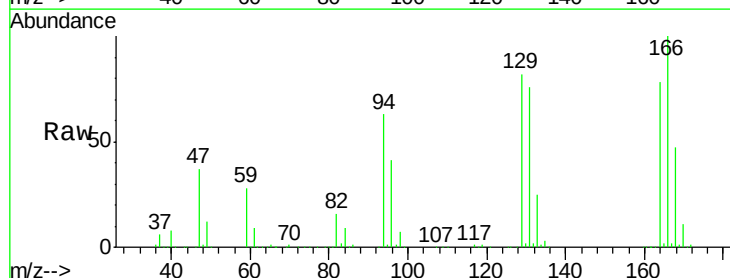
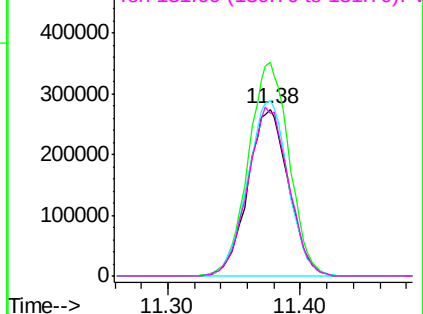
164 100

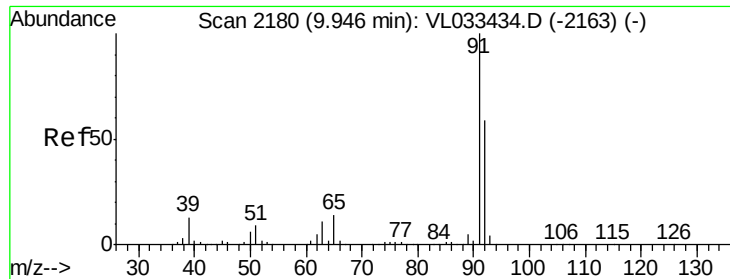
166 127.9 99.5 149.3

129 105.1 81.4 122.2

131 97.4 75.6 113.4

Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 10.252 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. 0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

Instrument :

MSVOA_L

ClientSampleId :

VL0325ABS01

Tot Ion: 91 Resp: 1803474

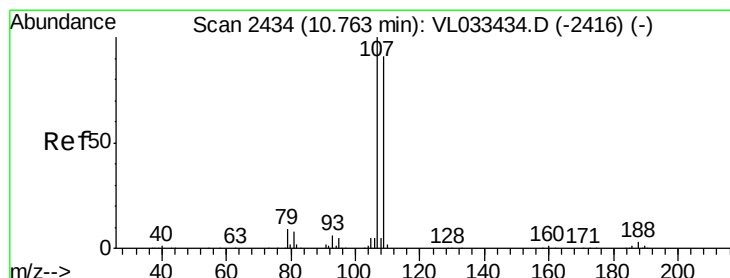
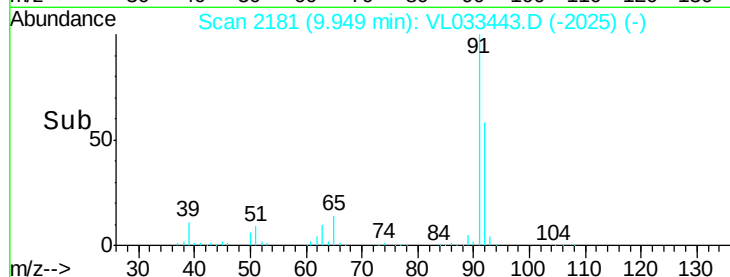
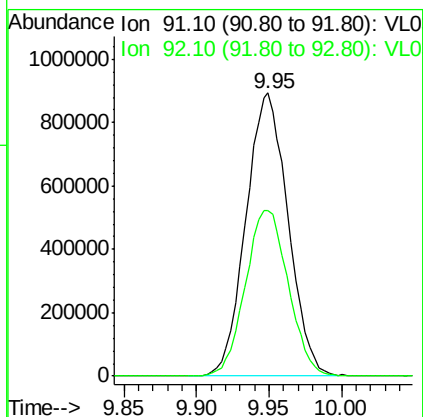
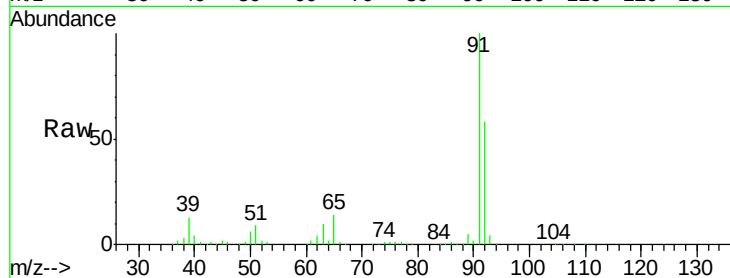
Ion Ratio Lower Upper

91 100

92 59.9 47.4 71.0

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#54

1,2-Dibromoethane

Concen: 9.827 ppbv

RT: 10.76 min Scan# 2434

Delta R.T. -0.00 min

Lab File: VL033443.D

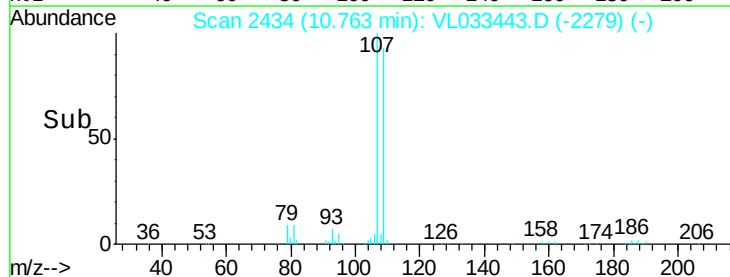
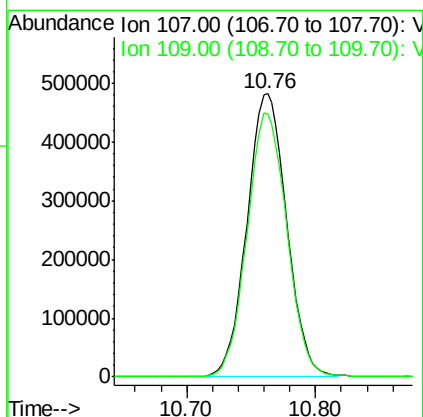
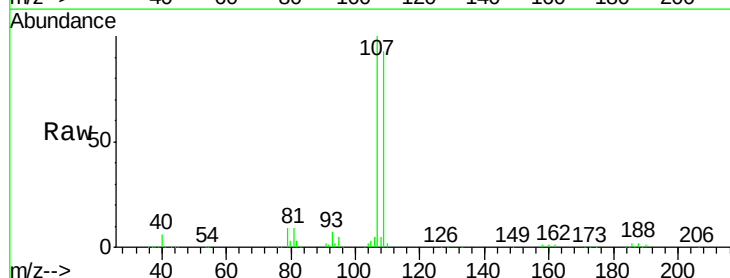
Acq: 25 Mar 2019 19:34

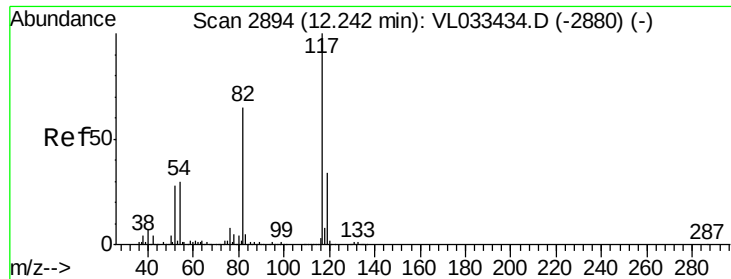
Tgt Ion: 107 Resp: 1035107

Ion Ratio Lower Upper

107 100

109 92.7 72.7 109.1





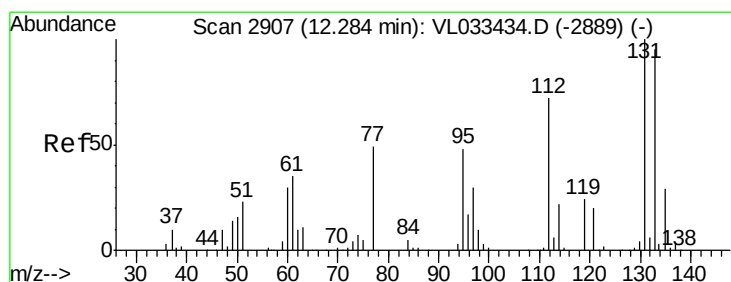
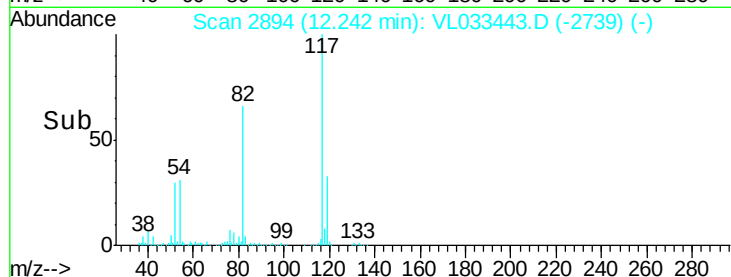
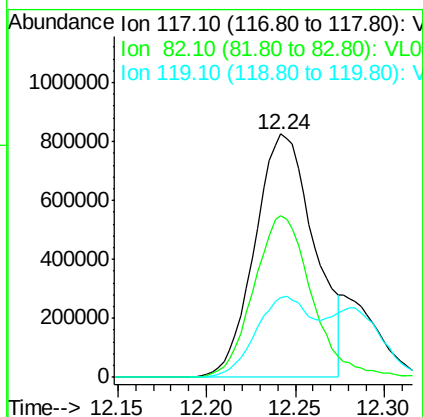
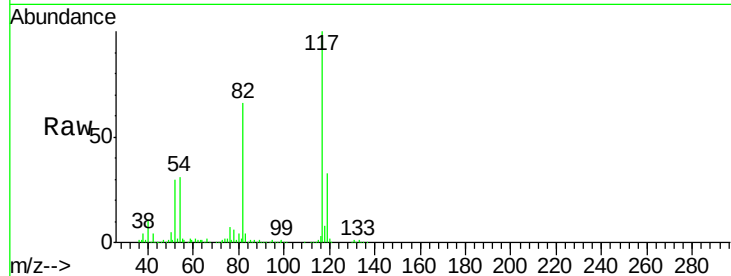
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.24 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL033443.D
Acq: 25 Mar 2019 19:34

Instrument :
MSVOA_L
ClientSampleId :
VL0325ABS01

Tot Ion:117 Resp: 1919606
Ion Ratio Lower Upper
117 100
82 65.1 51.5 77.3
119 57.0 25.5 38.3#

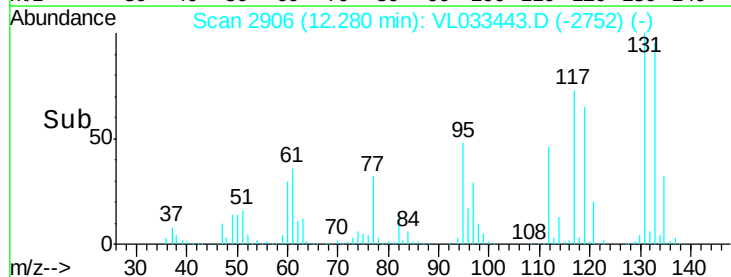
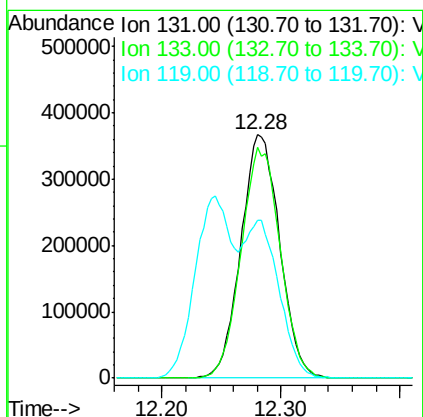
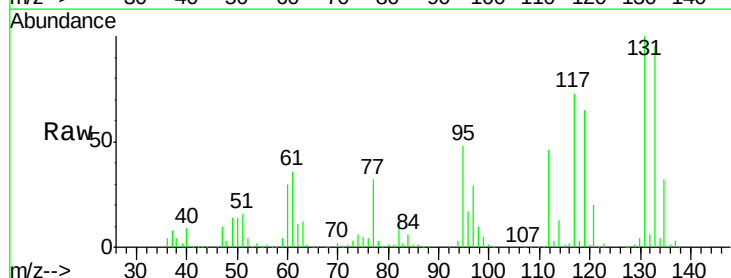
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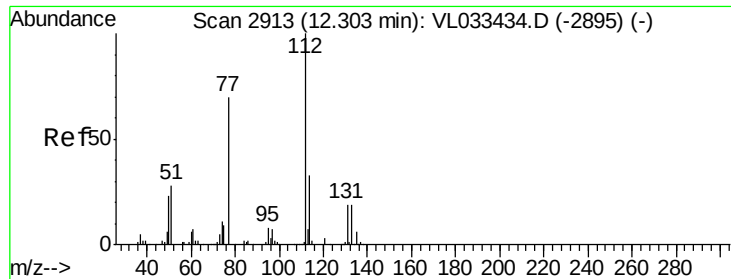
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.416 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. -0.00 min
Lab File: VL033443.D
Acq: 25 Mar 2019 19:34

Tgt Ion:131 Resp: 828361
Ion Ratio Lower Upper
131 100
133 95.6 76.2 114.4
119 54.3 45.0 67.6





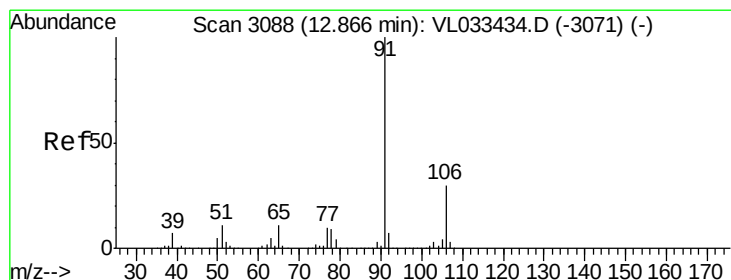
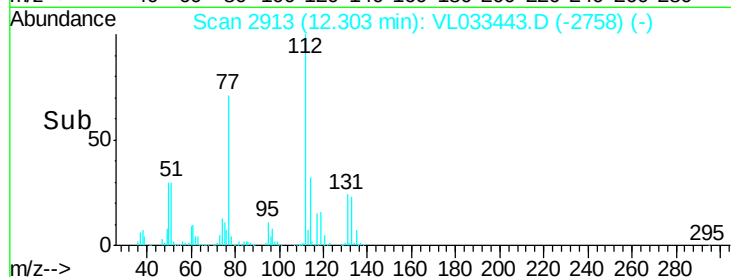
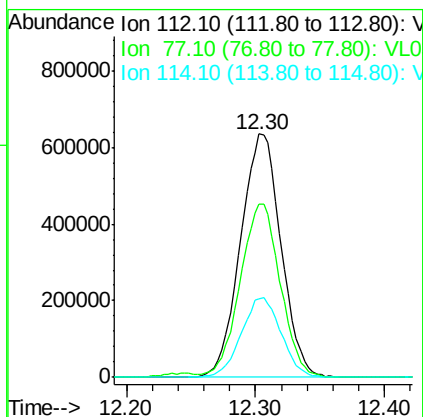
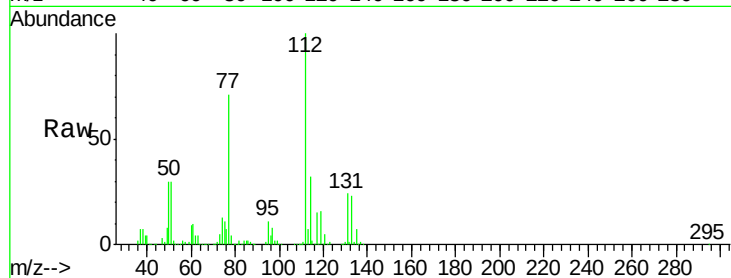
#57
Chlorobenzene
Concen: 9.314 ppbv
RT: 12.30 min Scan# 2913
Delta R.T. -0.00 min
Lab File: VL033443.D
Acq: 25 Mar 2019 19:34

Instrument :
MSVOA_L
ClientSampleId :
VL0325ABS01

Tot Ion	Ratio	Lower	Upper
112	100		
77	70.8	57.3	85.9
114	32.3	29.8	36.4

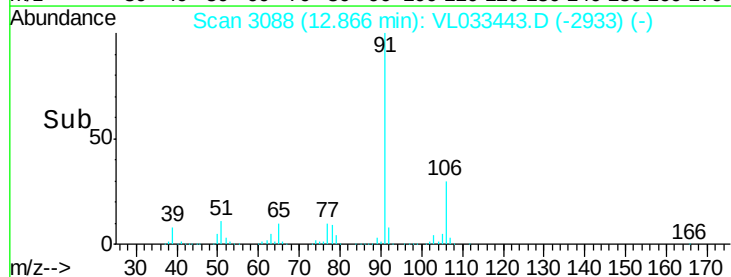
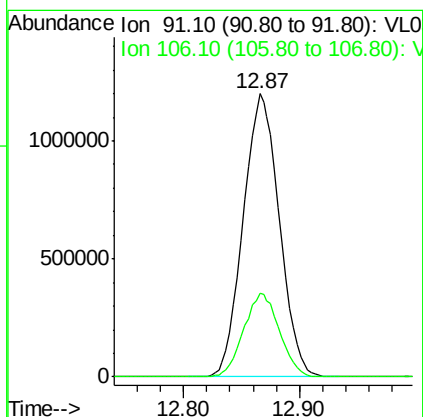
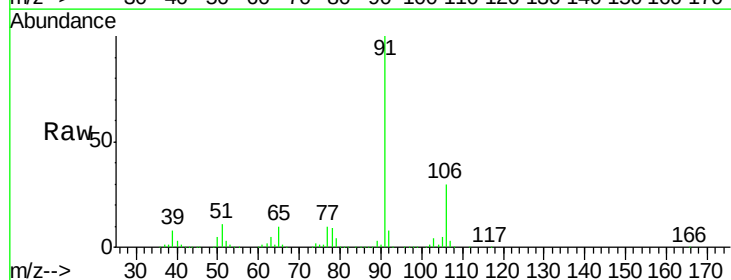
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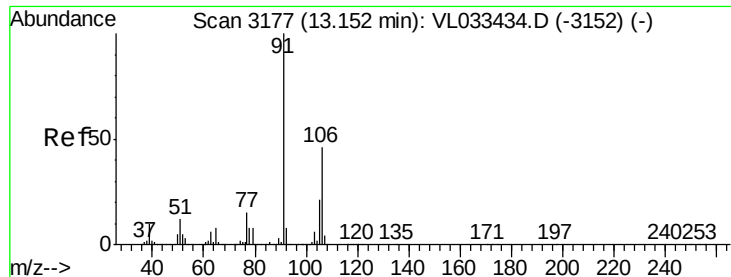
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#58
Ethyl Benzene
Concen: 10.110 ppbv
RT: 12.87 min Scan# 3088
Delta R.T. -0.00 min
Lab File: VL033443.D
Acq: 25 Mar 2019 19:34

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.5	23.8	35.6





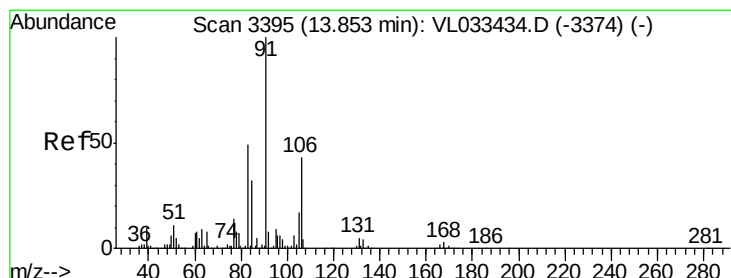
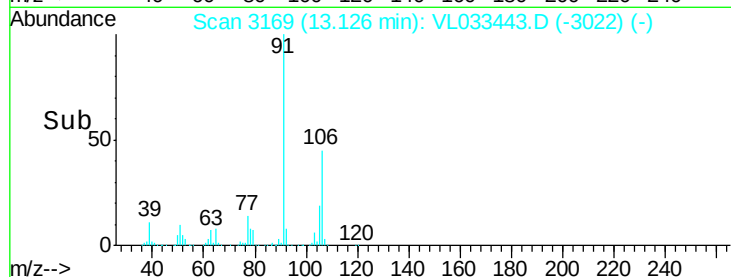
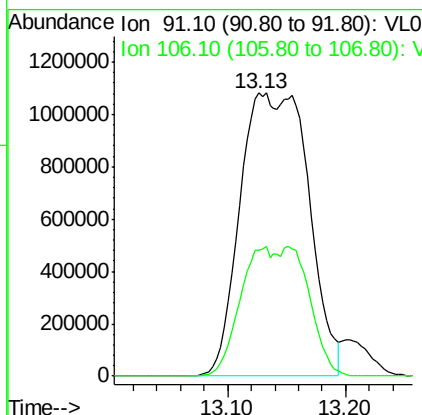
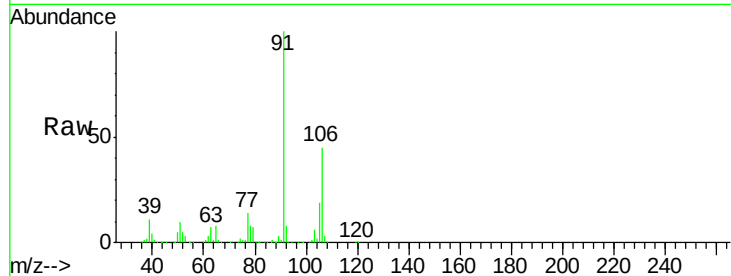
#59
m/p-Xylene
Concen: 19.068 ppbv m
RT: 13.13 min Scan# 3169
Delta R.T. -0.03 min
Lab File: VL033443.D
Acq: 25 Mar 2019 19:34

Instrument :
MSVOA_L
ClientSampleId :
VL0325ABS01

Tot Ion: 91 Resp: 4366077
Ion Ratio Lower Upper
91 100
106 44.5 0.0 0.0#

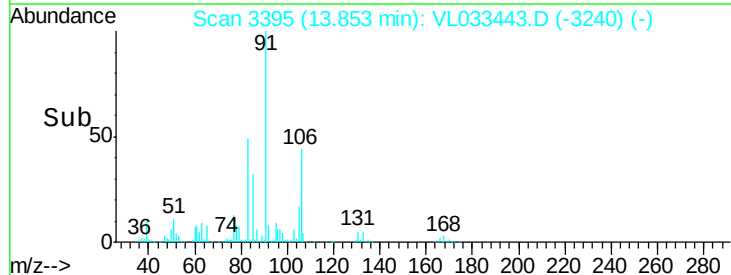
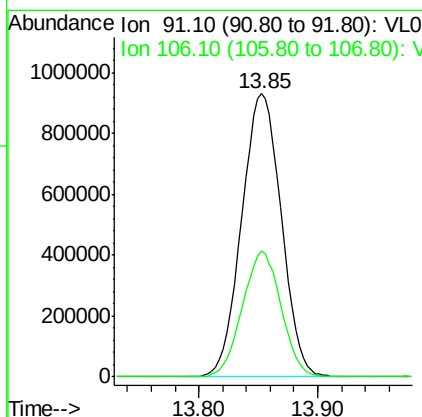
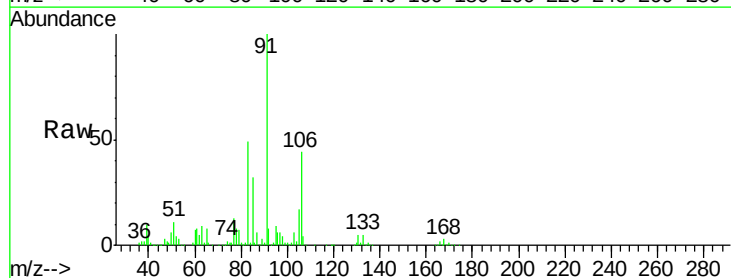
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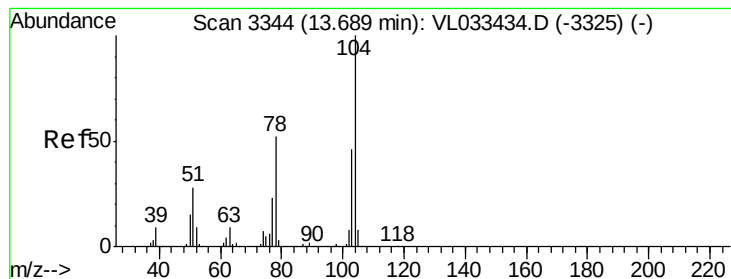
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#60
o-Xylene
Concen: 9.682 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. -0.00 min
Lab File: VL033443.D
Acq: 25 Mar 2019 19:34

Tgt Ion: 91 Resp: 2143729
Ion Ratio Lower Upper
91 100
106 43.6 21.4 64.3





#61

Stvrene

Concen: 10.537 ppbv

RT: 13.69 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

Instrument :

MSVOA_L

ClientSampleId :

VL0325ABS01

Tot Ion:104 Resp: 1601175

Ion Ratio Lower Upper

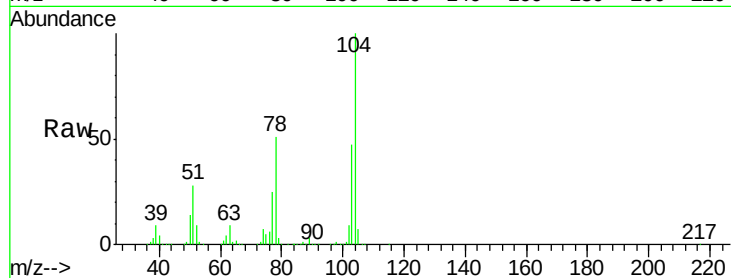
104 100

78 54.1 43.2 64.8

103 47.3 37.8 56.8

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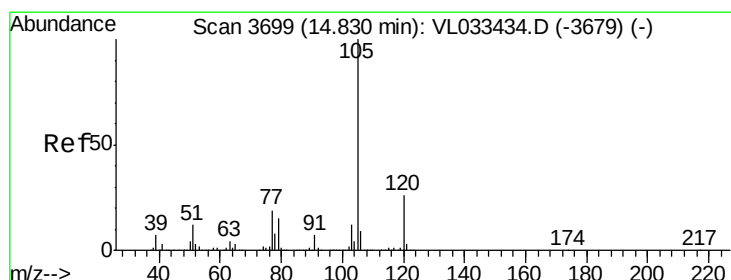
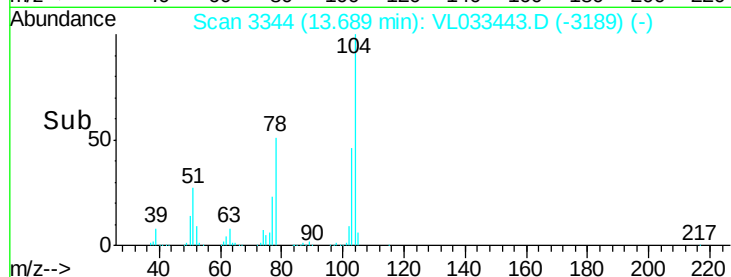
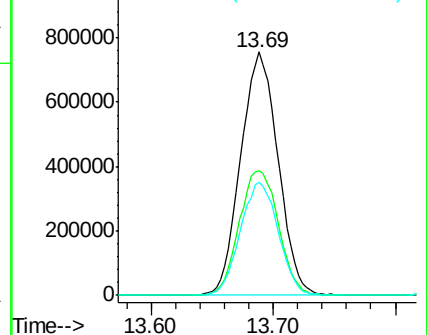
MMDadoda
4/1/2019 1:22:51 AM



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: 9.500 ppbv

RT: 14.83 min Scan# 3699

Delta R.T. -0.00 min

Lab File: VL033443.D

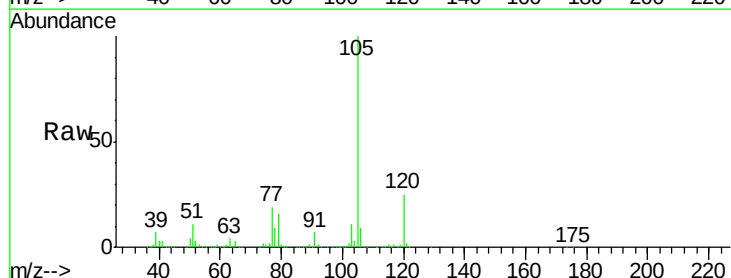
Acq: 25 Mar 2019 19:34

Tgt Ion:105 Resp: 2978789

Ion Ratio Lower Upper

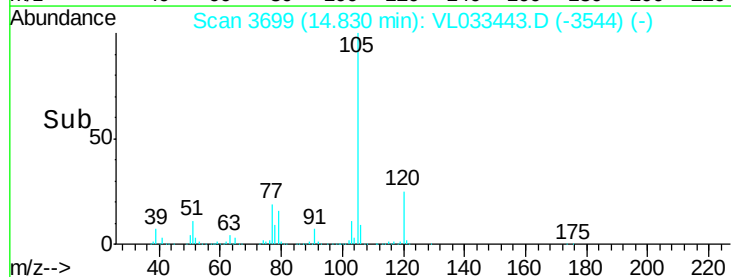
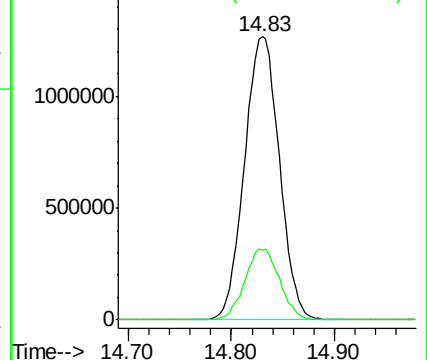
105 100

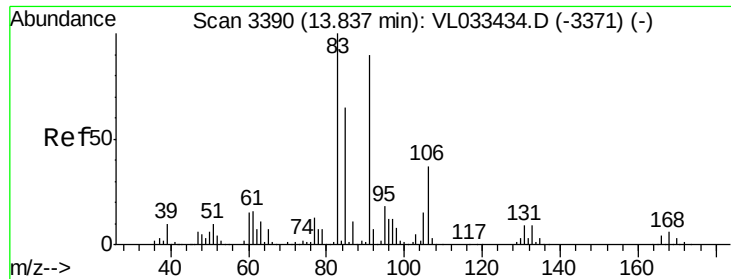
120 25.0 20.2 30.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





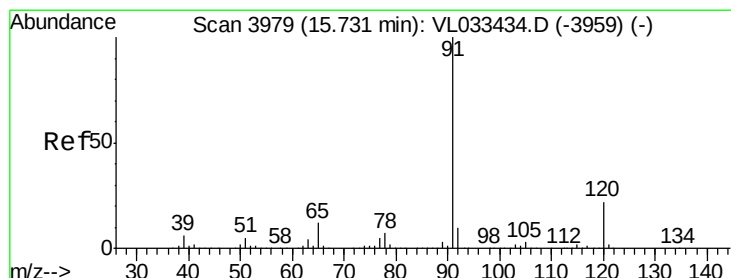
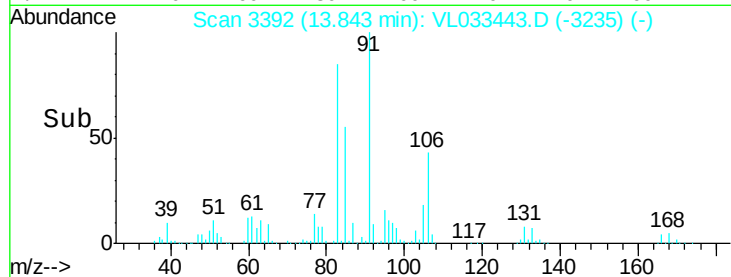
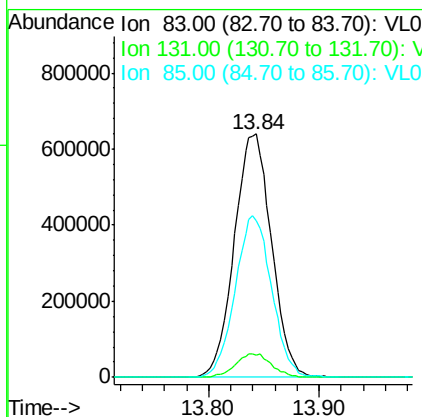
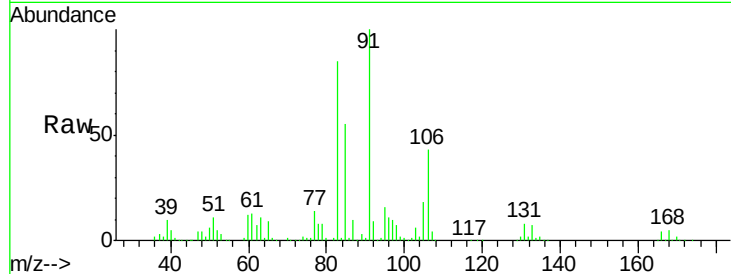
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.180 ppbv
 RT: 13.84 min Scan# 3392
 Delta R.T. 0.01 min
 Lab File: VL033443.D
 Acq: 25 Mar 2019 19:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0325ABS01

Tot Ion	83	Resp	1496712
Ion Ratio	100	Lower	Upper
83	100		
131	9.5	4.7	14.0
85	65.3	32.7	98.1

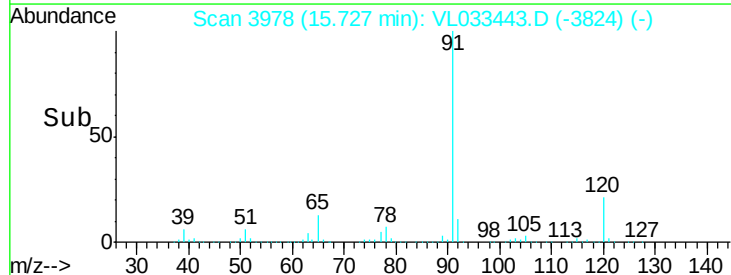
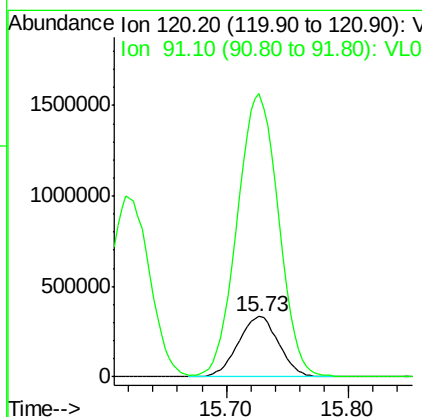
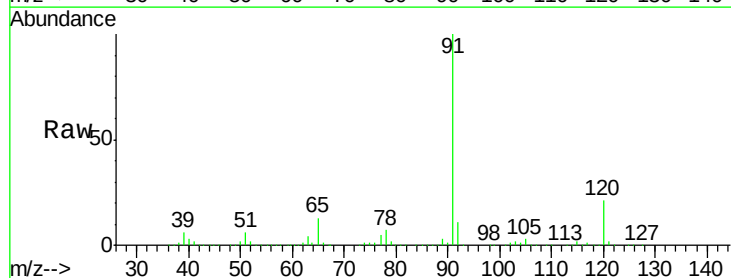
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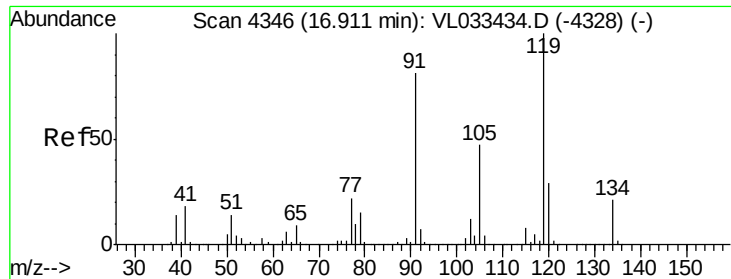
MMDadoda
 4/1/2019 1:22:51 AM



#64
 n-propylbenzene
 Concen: 9.605 ppbv
 RT: 15.73 min Scan# 3978
 Delta R.T. -0.00 min
 Lab File: VL033443.D
 Acq: 25 Mar 2019 19:34

Tgt Ion	120	Resp	764181
Ion Ratio	100	Lower	Upper
120	100		
91	480.2	387.4	581.2





#65

tert-Butylbenzene

Concen: 9.700 ppbv

RT: 16.91 min Scan# 4347

Delta R.T. 0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

Instrument :

MSVOA_L

ClientSampleId :

VL0325ABS01

Tot Ion:119 Resp: 2680137

Ion Ratio Lower Upper

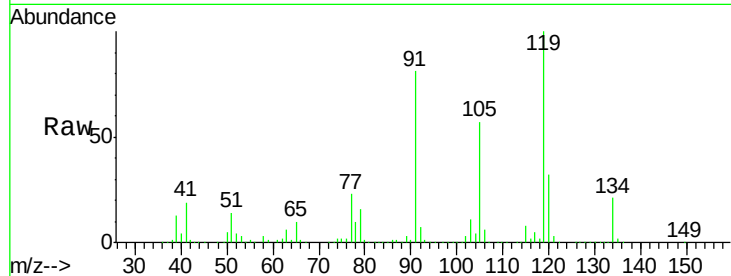
119 100

91 82.2 66.4 99.6

134 19.3 15.5 23.3

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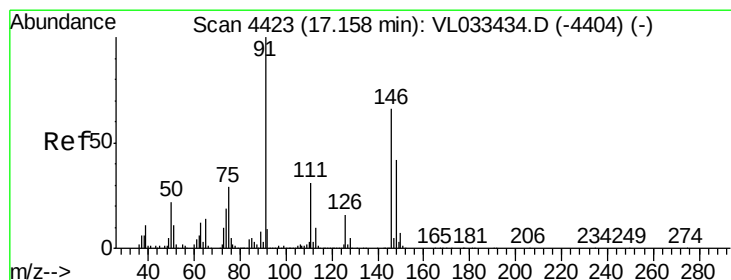
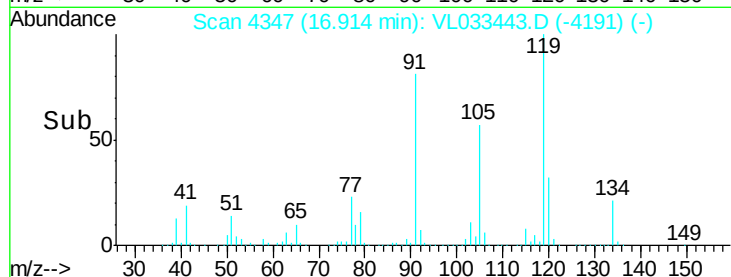
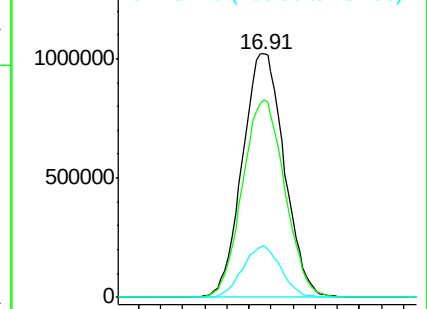
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 11.647 ppbv

RT: 17.16 min Scan# 4424

Delta R.T. 0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

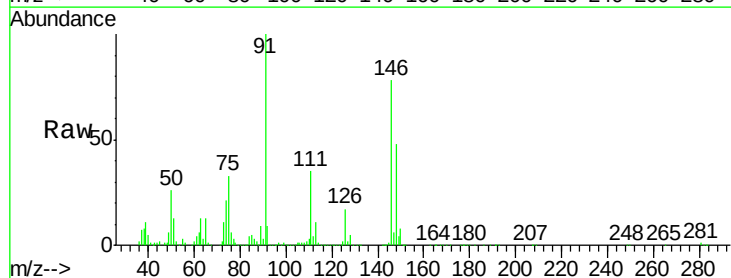
Tgt Ion: 91 Resp: 1496423

Ion Ratio Lower Upper

91 100

126 16.6 13.0 19.6

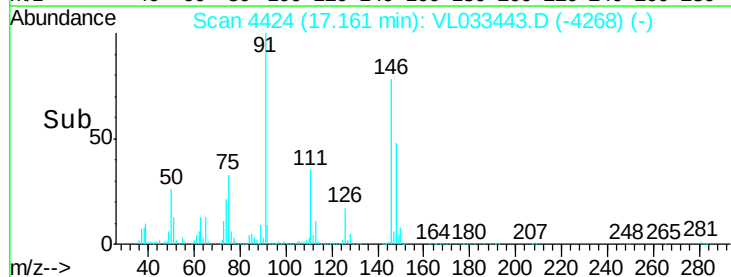
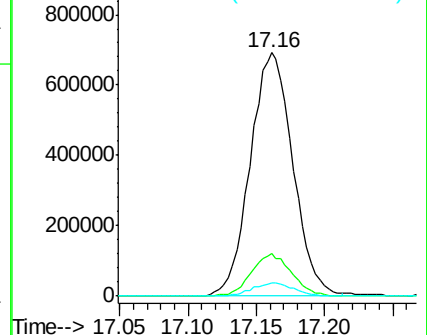
128 5.3 4.2 6.2

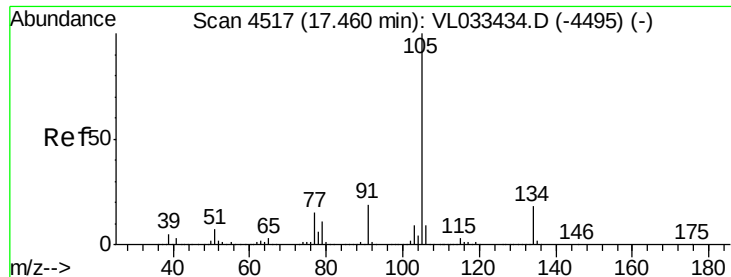


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.727 ppbv

RT: 17.46 min Scan# 4518

Delta R.T. 0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

Instrument :

MSVOA_L

ClientSampleId :

VL0325ABS01

Tot Ion: 105 Resp: 3821942

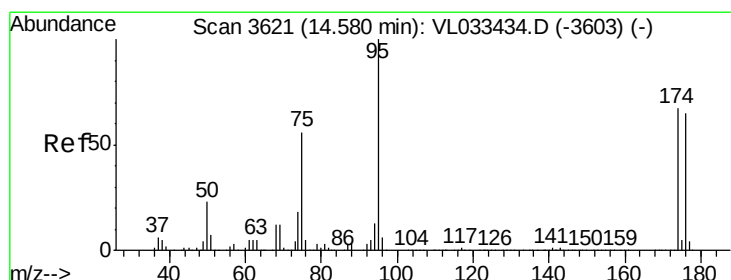
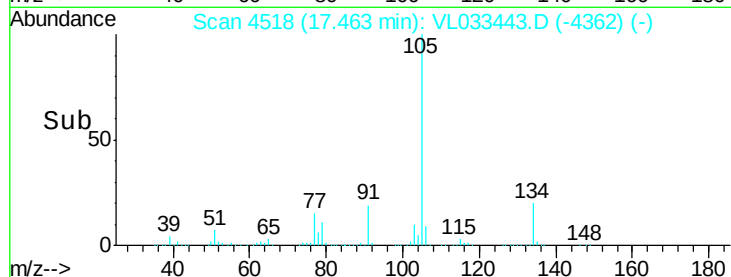
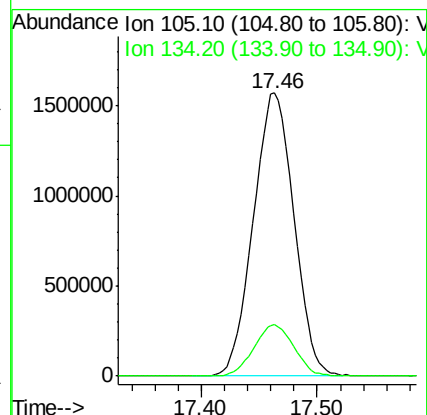
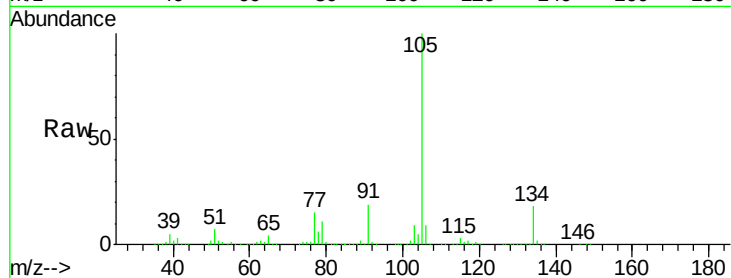
Ion Ratio Lower Upper

105 100

134 17.9 14.6 21.8

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.717 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. 0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

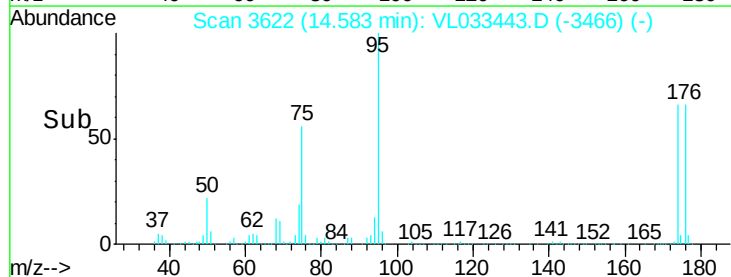
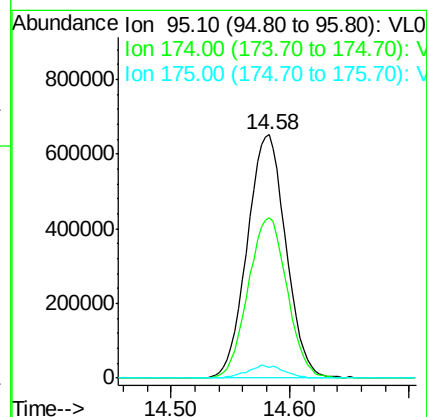
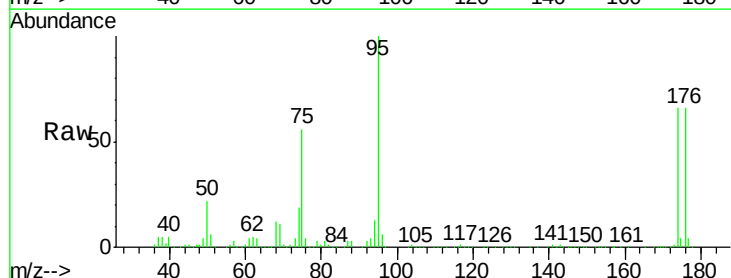
Tgt Ion: 95 Resp: 1462364

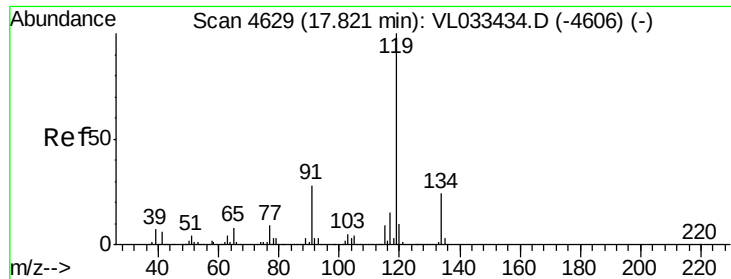
Ion Ratio Lower Upper

95 100

174 66.7 52.9 79.3

175 5.0 3.8 5.6





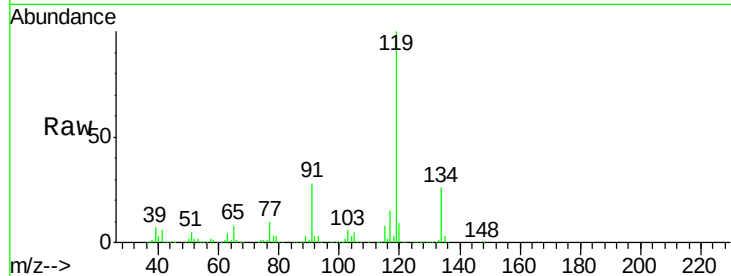
#69
 p-Isopropyltoluene
 Concen: 9.874 ppbv
 RT: 17.82 min Scan# 4629
 Delta R.T. -0.00 min
 Lab File: VL033443.D
 Acq: 25 Mar 2019 19:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0325ABS01

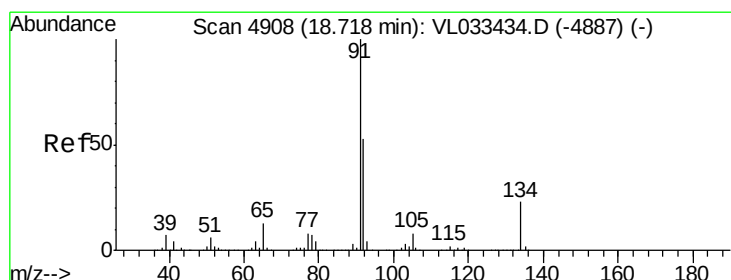
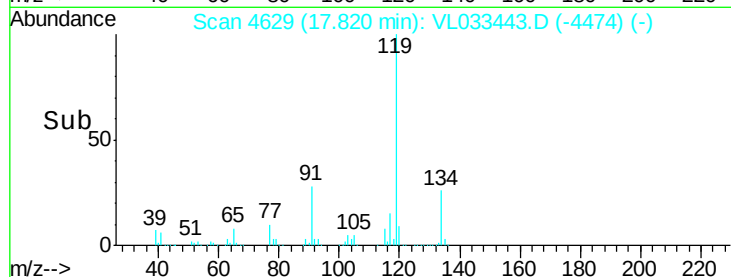
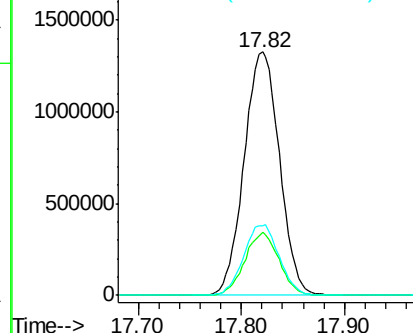
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.0	19.9	29.9
91	29.2	23.4	35.0

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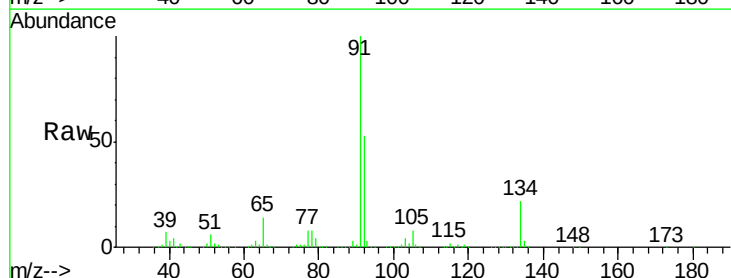


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

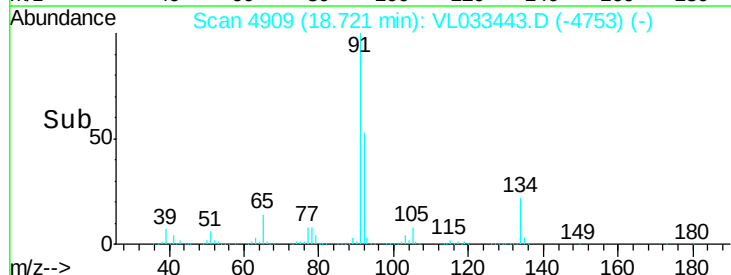
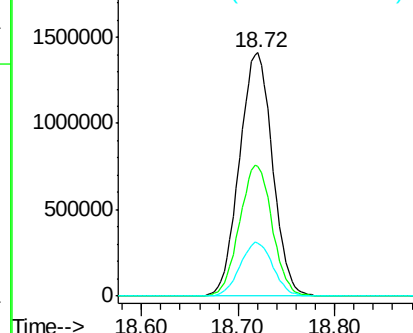


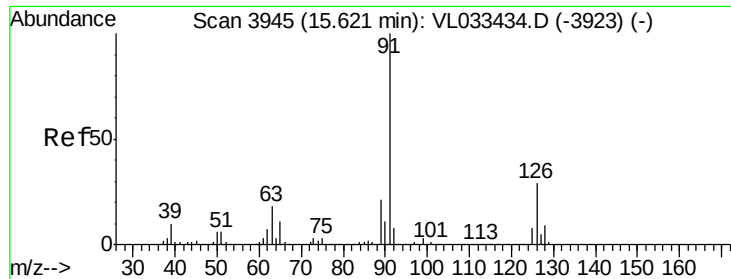
#70
 n-Butylbenzene
 Concen: 9.871 ppbv
 RT: 18.72 min Scan# 4909
 Delta R.T. 0.00 min
 Lab File: VL033443.D
 Acq: 25 Mar 2019 19:34

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.2	42.6	64.0
134	21.9	17.5	26.3



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: 9.590 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. -0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

Instrument :

MSVOA_L

ClientSampleId :

VL0325ABS01

Tot Ion: 91 Resp: 2286478

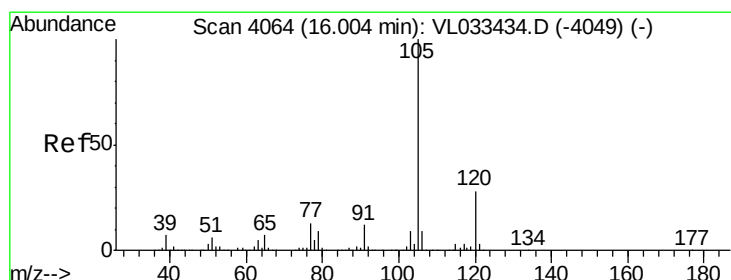
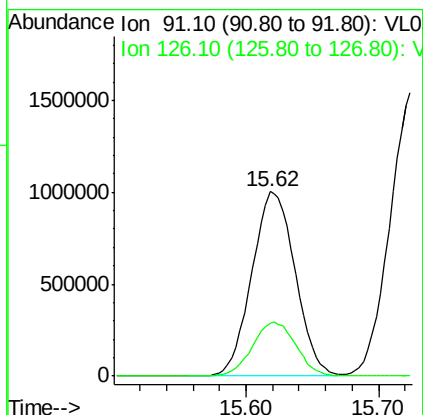
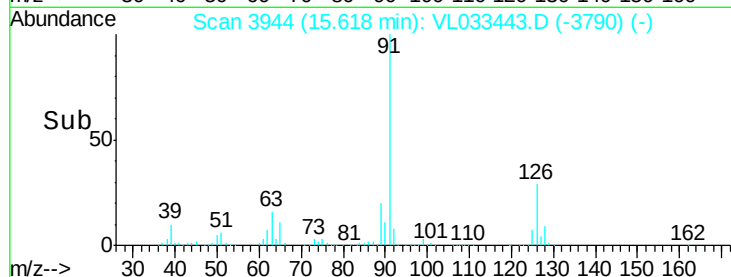
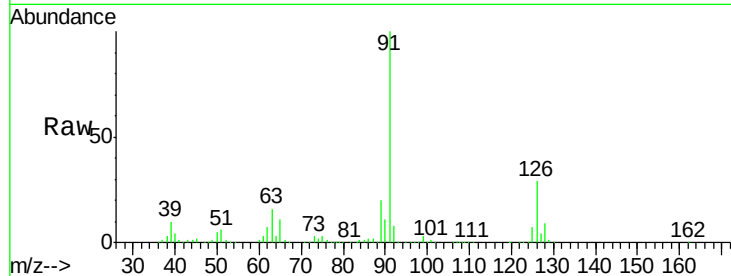
Ion Ratio Lower Upper

91 100

126 29.6 11.7 46.9

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#72

4-Ethyltoluene

Concen: 9.875 ppbv

RT: 16.01 min Scan# 4065

Delta R.T. 0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

Tgt Ion: 105 Resp: 2457636

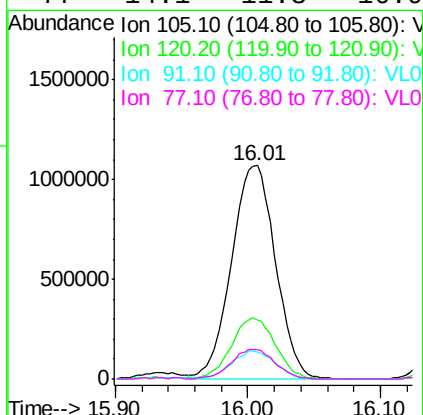
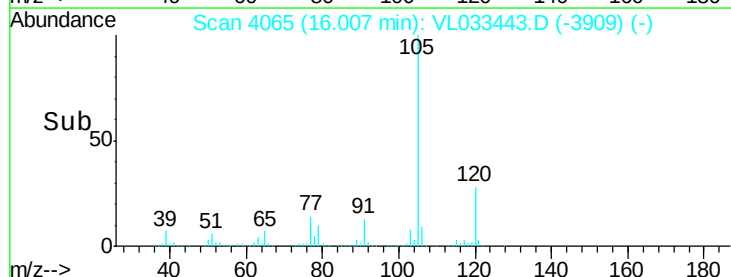
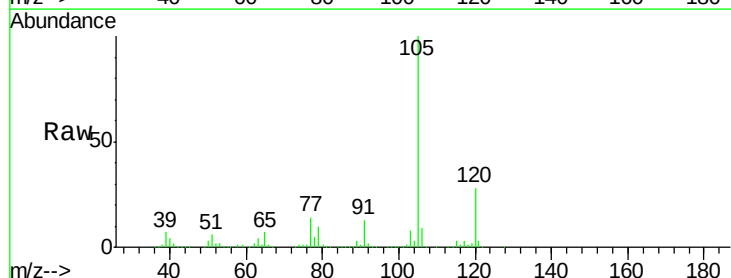
Ion Ratio Lower Upper

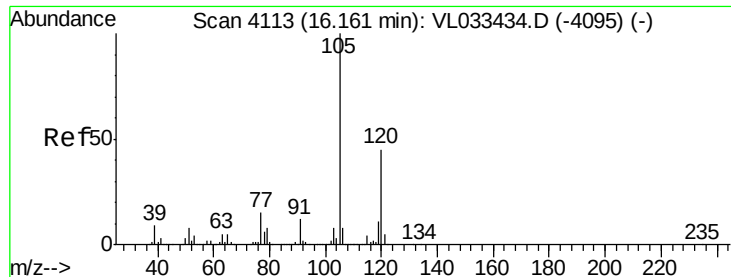
105 100

120 28.6 23.2 34.8

91 13.1 10.4 15.6

77 14.1 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 9.979 ppbv

RT: 16.16 min Scan# 4114

Delta R.T. 0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

Instrument :

MSVOA_L

ClientSampleId :

VL0325ABS01

Tot Ion:105 Resp: 2376666

Ion Ratio Lower Upper

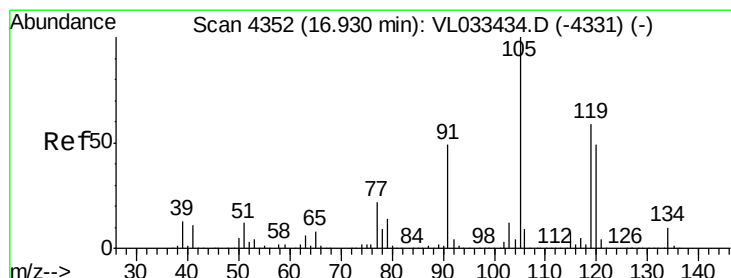
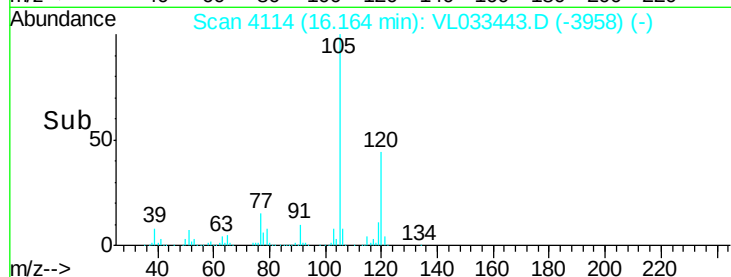
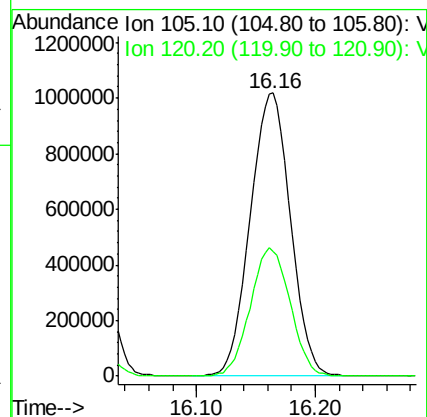
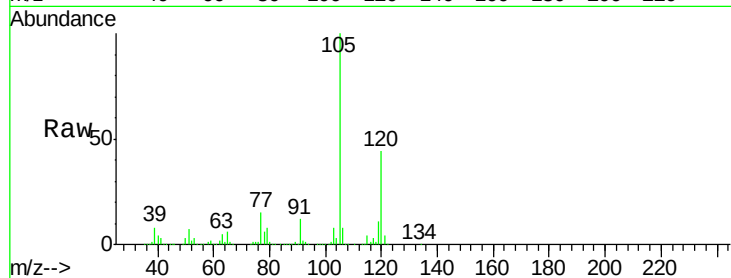
105 100

120 44.2 35.7 53.5

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#74

1,2,4-Trimethylbenzene

Concen: 9.671 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. -0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

Tgt Ion:105 Resp: 2468948

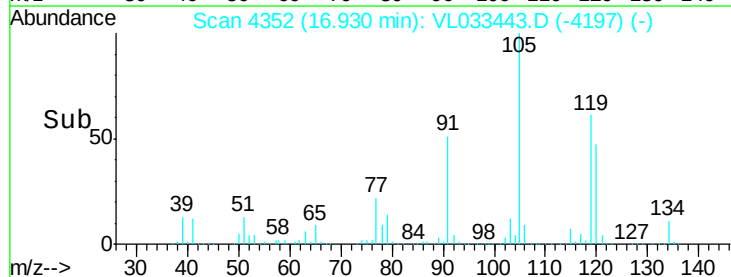
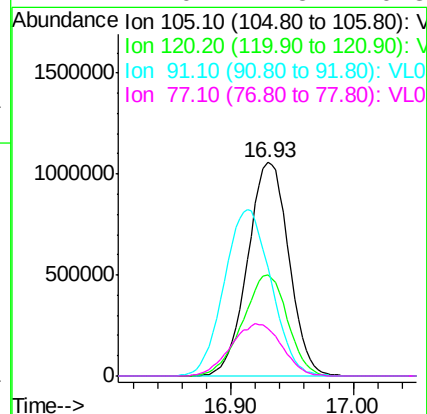
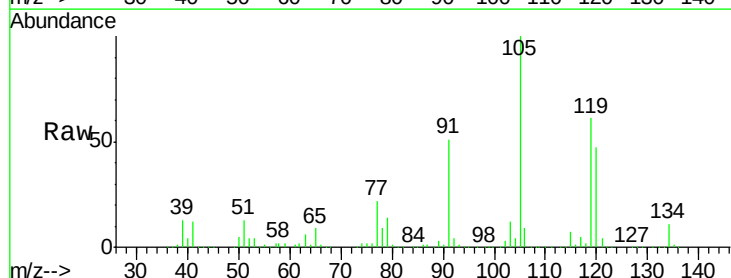
Ion Ratio Lower Upper

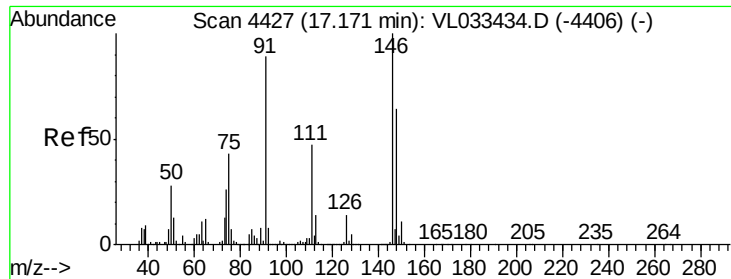
105 100

120 47.1 39.0 58.6

91 50.6 40.0 60.0

77 22.0 17.5 26.3





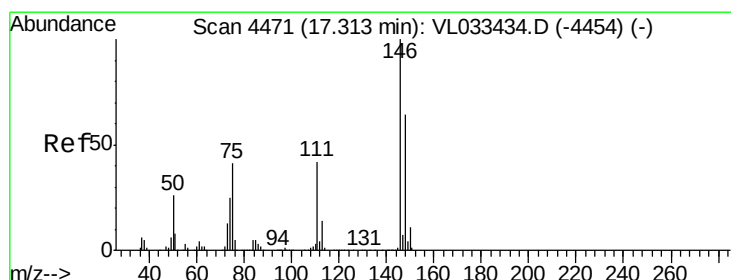
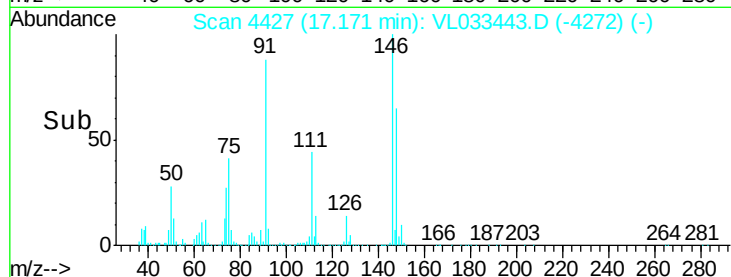
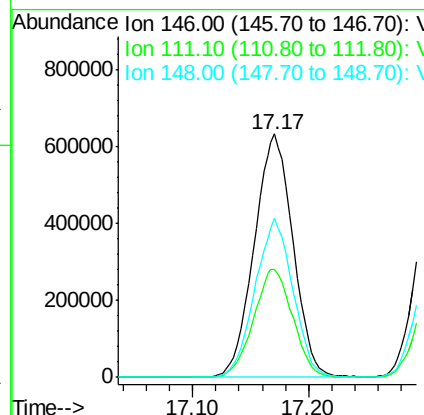
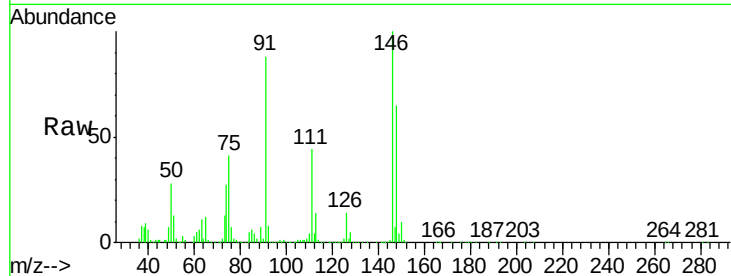
#75
 1,3-Dichlorobenzene
 Concen: 9.305 ppbv
 RT: 17.17 min Scan# 4427
 Delta R.T. -0.00 min
 Lab File: VL033443.D
 Acq: 25 Mar 2019 19:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0325ABS01

Tot Ion:146 Resp: 1468166
 Ion Ratio Lower Upper
 146 100
 111 45.0 22.9 68.8
 148 64.0 32.0 96.2

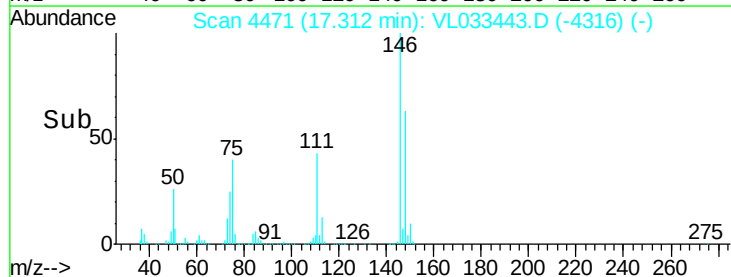
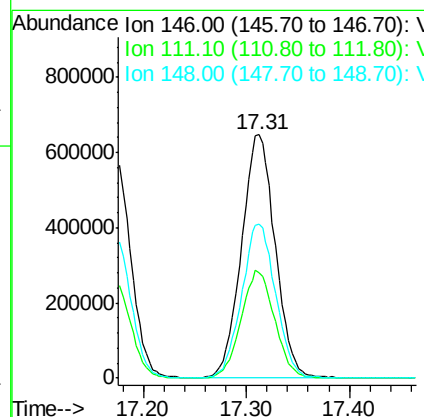
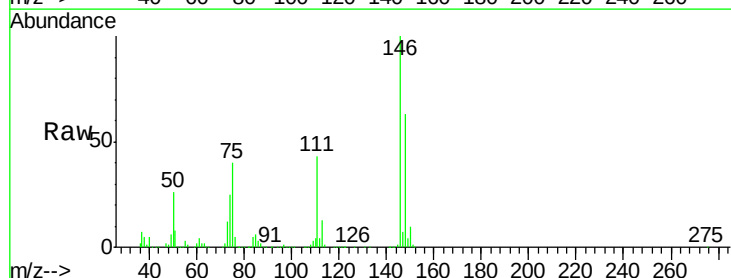
Manual Integrations
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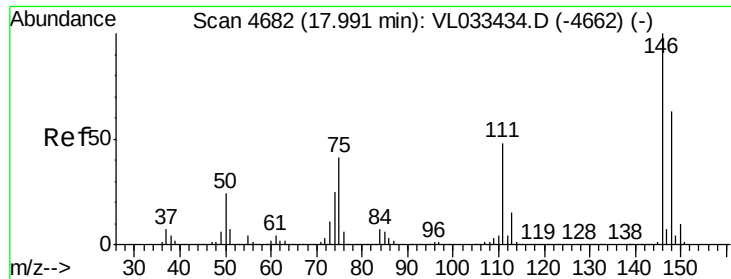
MMDadoda
 4/1/2019 1:22:51 AM



#76
 1,4-Dichlorobenzene
 Concen: 9.505 ppbv
 RT: 17.31 min Scan# 4471
 Delta R.T. -0.00 min
 Lab File: VL033443.D
 Acq: 25 Mar 2019 19:34

Tgt Ion:146 Resp: 1461179
 Ion Ratio Lower Upper
 146 100
 111 44.2 21.7 65.1
 148 64.6 32.0 96.2





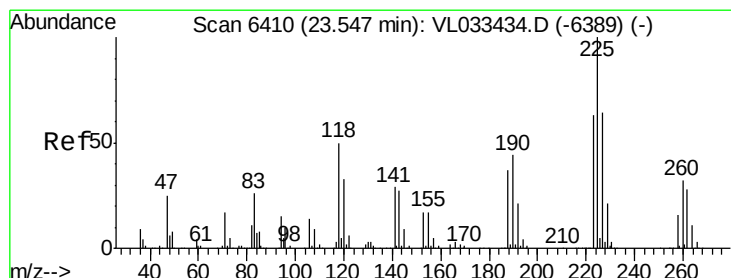
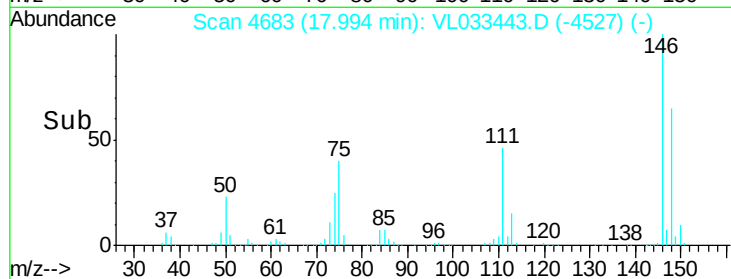
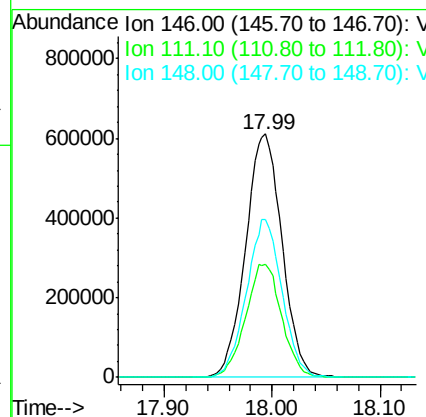
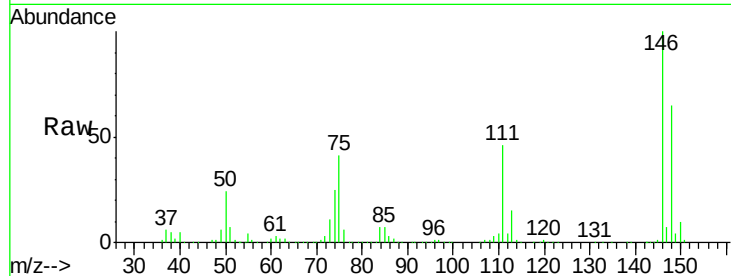
#77
 1,2-Dichlorobenzene
 Concen: 9.563 ppbv
 RT: 17.99 min Scan# 4683
 Delta R.T. 0.00 min
 Lab File: VL033443.D
 Acq: 25 Mar 2019 19:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0325ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.1	23.5	70.5
148	63.3	32.0	96.0

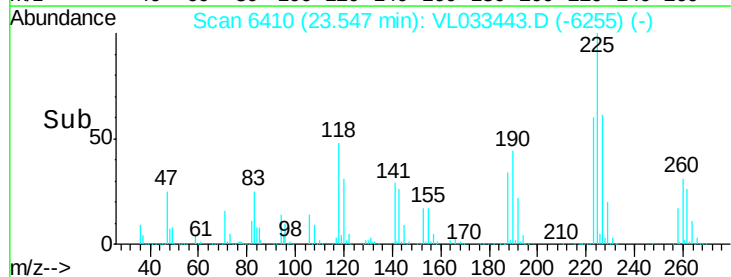
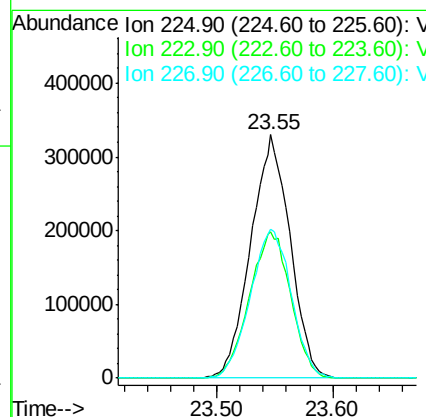
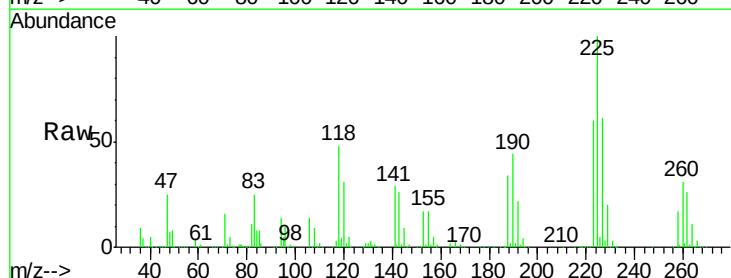
Manual Integrations
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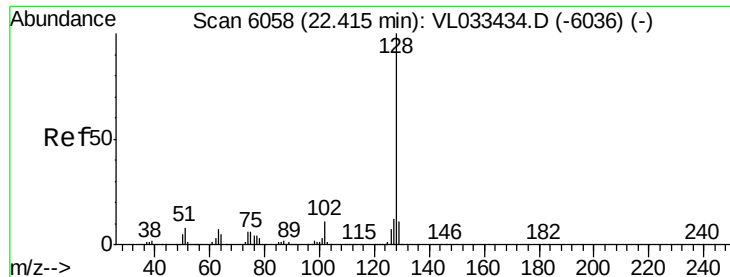
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#78
 Hexachloro-1,3-Butadiene
 Concen: 7.840 ppbv
 RT: 23.55 min Scan# 6410
 Delta R.T. -0.00 min
 Lab File: VL033443.D
 Acq: 25 Mar 2019 19:34

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.0	75.0
227	63.8	51.1	76.7





#79

Naphthalene

Concen: 11.151 ppbv

RT: 22.41 min Scan# 6057

Delta R.T. -0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

Instrument :

MSVOA_L

ClientSampleId :

VL0325ABS01

Tot Ion:128 Resp: 2436877

Ion Ratio Lower Upper

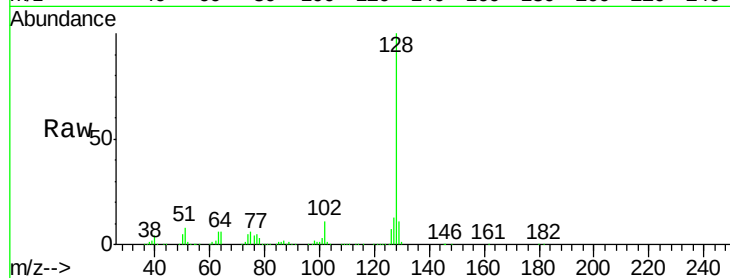
128 100

127 13.1 9.8 14.8

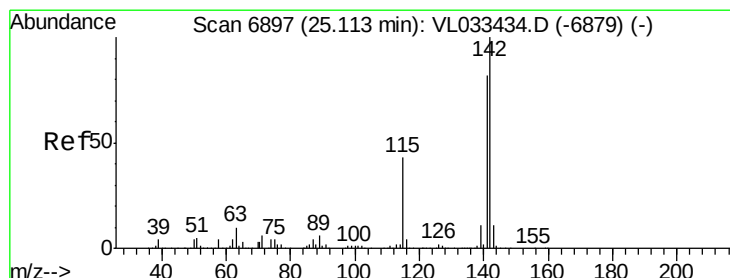
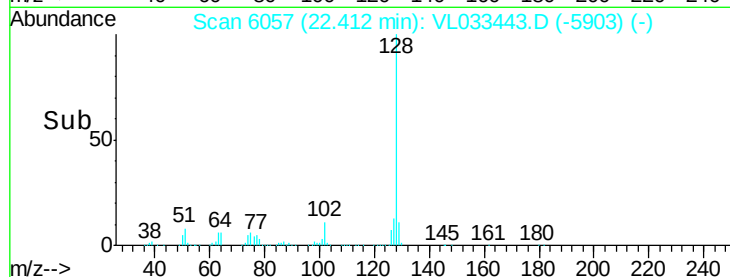
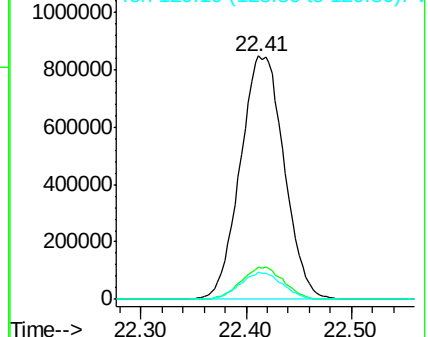
129 11.3 8.6 12.8

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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 14.576 ppbv

RT: 25.12 min Scan# 6898

Delta R.T. 0.00 min

Lab File: VL033443.D

Acq: 25 Mar 2019 19:34

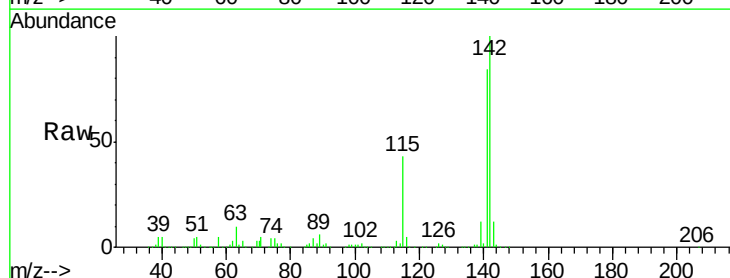
Tgt Ion:142 Resp: 1069003

Ion Ratio Lower Upper

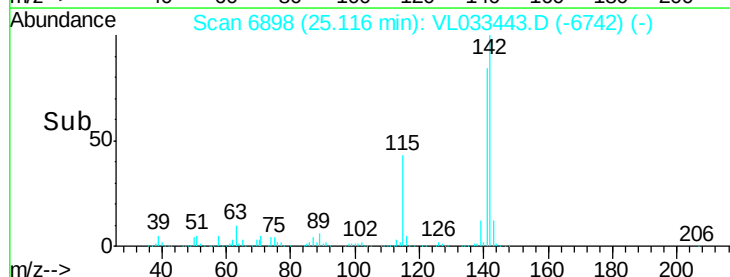
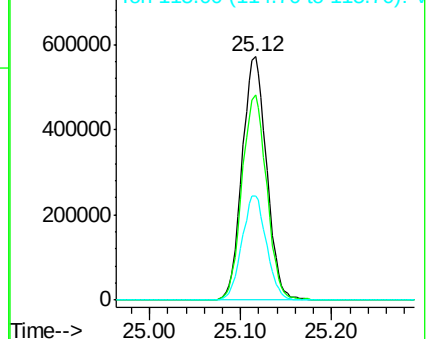
142 100

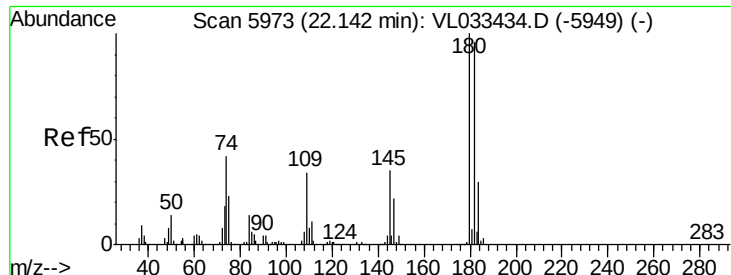
141 85.1 66.6 99.8

115 42.9 34.4 51.6



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 10.251 ppbv
 RT: 22.14 min Scan# 5973
 Delta R.T. -0.00 min
 Lab File: VL033443.D
 Acq: 25 Mar 2019 19:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0325ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.7	77.0	115.4
184	30.8	24.6	36.8

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:22:51 AM

