

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050119\
 Data File : VL033614.D
 Acq On : 1 May 2019 11:52
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 5/2/2019 4:03:44 PM

Quant Time: May 02 04:13:11 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 04:13:11 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	5.75	49	1126620	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2740188	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	4765714m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2406567	6.58	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	65.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	1469189	8.653	ppbv	100
3) Chlorodifluoromethane	3.00	51	1219849	8.458	ppbv	100
4) Chloromethane	3.16	50	660257	8.999	ppbv	100
5) Vinyl Chloride	3.28	62	658327	8.552	ppbv	100
6) Bromomethane	3.51	94	411292	9.079	ppbv	100
7) Chloroethane	3.59	64	244373	9.523	ppbv	100
8) Dichlorotetrafluoroethane	3.21	85	1639106	8.874	ppbv	100
9) Propene	3.02	41	118438	3.071	ppbv	100
10) Heptane	8.24	43	1447783	10.151	ppbv	100
11) Trichlorofluoromethane	3.99	101	1816538	9.001	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.54	101	1221162	8.823	ppbv	100
13) Ethanol	3.63	45	129525	7.407	ppbv	100
14) Bromoethene	3.78	108	538699	9.482	ppbv	100
15) Acetone	3.89	43	1130157	8.240	ppbv	100
16) 1,3-Butadiene	3.35	39	590609	9.568	ppbv	100
17) tert-Butyl alcohol	4.34	59	1149551	9.707	ppbv	100
18) 1,1-Dichloroethene	4.34	96	547726	9.106	ppbv	100
19) Isopropyl Alcohol	4.01	45	892775	9.483	ppbv	100
20) Methylene Chloride	4.40	84	449750	8.414	ppbv	100
21) Allyl Chloride	4.47	41	831848	9.641	ppbv	100
22) trans-1,2-Dichloroethene	4.95	96	545919	9.267	ppbv	100
23) Vinyl Acetate	5.14	43	2058682	10.093	ppbv	100
24) 1,1-Dichloroethane	5.08	63	1394856	9.186	ppbv	100
25) Ethyl Acetate	5.76	43	2449535	9.410	ppbv	100
26) Hexane	5.77	57	1058042	9.652	ppbv	100
27) Carbon Disulfide	4.61	76	1378891	10.387	ppbv	100
28) Methyl tert-Butyl Ether	5.10	73	1847632	9.996	ppbv	100
29) Chloroform	5.84	83	1828402	9.101	ppbv	100
30) Cyclohexane	7.24	84	942349	9.916	ppbv	100
31) cis-1,2-Dichloroethene	5.63	61	1100897	9.948	ppbv	100
32) 1,1,1-Trichloroethane	6.61	97	1902524	9.040	ppbv	100
34) 2-Butanone	5.32	43	1625221	9.661	ppbv	100
35) Carbon Tetrachloride	7.12	117	2039441	9.395	ppbv	100
36) Benzene	7.00	78	2272614	9.734	ppbv	100
37) 1,2-Dichloroethane	6.40	62	1403302	9.045	ppbv	100
38) Trichloroethene	7.95	130	906057	9.687	ppbv	100
39) 1,2-Dichloropropane	7.73	63	865132	9.826	ppbv	100
40) 1,4-Dioxane	7.94	88	367374	10.274	ppbv	100
41) Tetrahydrofuran	6.14	42	899934	10.017	ppbv	100
42) Bromodichloromethane	7.91	83	2038243	9.708	ppbv	100
43) Methyl Methacrylate	8.13	69	925760	10.471	ppbv	100

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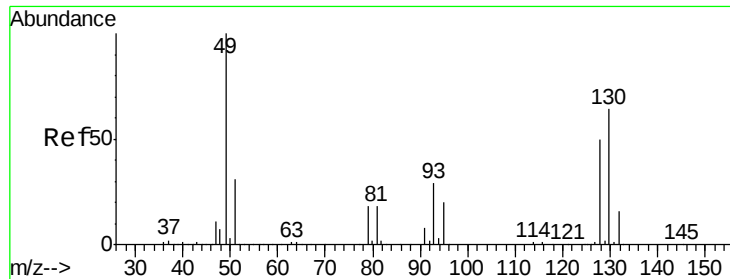
Manual Integrations
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Quant Time: May 02 04:13:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 02 04:13:11 2019
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	3873202	9.519	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	1436290	12.234	ppbv	100
46) cis-1,3-Dichloropropene	8.82	75	1489005m	11.243	ppbv	
47) 1,1,2-Trichloroethane	9.61	97	1500837	13.070	ppbv	100
48) Dibromochloromethane	10.44	129	2771374	14.263	ppbv	100
49) Bromoform	13.19	173	1561379	10.486	ppbv	100
50) 4-Methyl-2-Pentanone	8.86	43	2625171	9.959	ppbv	100
51) 2-Hexanone	10.26	43	3347315	14.464	ppbv	100
52) Tetrachloroethene	11.36	164	916613	10.210	ppbv	100
53) Toluene	9.94	91	4206515	14.277	ppbv	100
54) 1,2-Dibromoethane	10.74	107	1653413m	10.473	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.27	131	1826186	8.775	ppbv #	57
57) Chlorobenzene	12.29	112	3157065	8.518	ppbv	100
58) Ethyl Benzene	12.85	91	3780231	6.816	ppbv	100
59) m/p-Xylene	13.14	91	6193308m	12.918	ppbv	
60) o-Xylene	13.84	91	3181185	6.602	ppbv	100
61) Styrene	13.68	104	2434004	7.382	ppbv	100
62) Isopropylbenzene	14.82	105	4310249	6.693	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	2214496	5.868	ppbv	100
64) n-propylbenzene	15.71	120	1121897	6.716	ppbv	100
65) tert-Butylbenzene	16.90	119	3940553	6.543	ppbv	100
66) Benzyl Chloride	17.15	91	2145895	7.843	ppbv	100
67) sec-Butylbenzene	17.45	105	5607742	6.630	ppbv	100
69) p-Isopropyltoluene	17.81	119	4780186	6.792	ppbv	100
70) n-Butylbenzene	18.70	91	4971673	6.494	ppbv	100
71) 2-Chlorotoluene	15.61	91	3266680	6.781	ppbv	100
72) 4-Ethyltoluene	15.99	105	3792762	6.907	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	3623870	6.713	ppbv	100
74) 1,2,4-Trimethylbenzene	16.92	105	3816203	6.344	ppbv	100
75) 1,3-Dichlorobenzene	17.15	146	2261140	6.039	ppbv	100
76) 1,4-Dichlorobenzene	17.30	146	2316590	6.485	ppbv	100
77) 1,2-Dichlorobenzene	17.98	146	2186012	6.264	ppbv	100
78) Hexachloro-1,3-Butadiene	23.53	225	1398033	5.256	ppbv	100
79) Naphthalene	22.40	128	3857150	6.939	ppbv	100
80) Naphthalene, 2-methyl-	25.10	142	1923492	7.975	ppbv	100
81) 1,2,4-Trichlorobenzene	22.13	180	2070656	6.430	ppbv	100

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



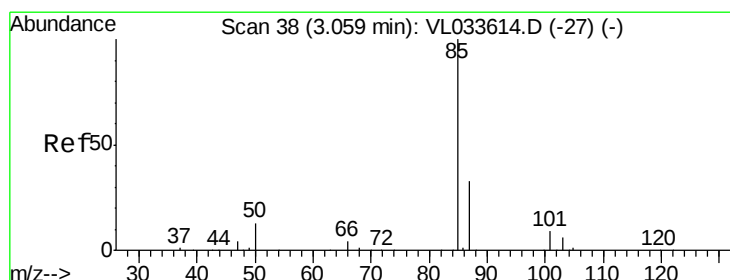
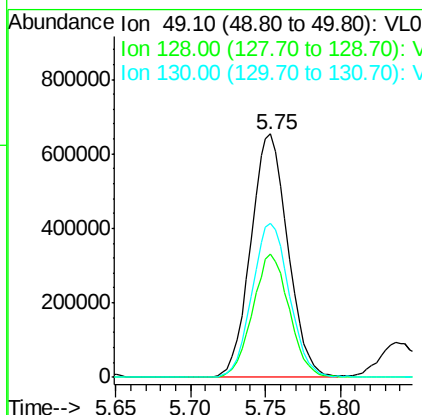
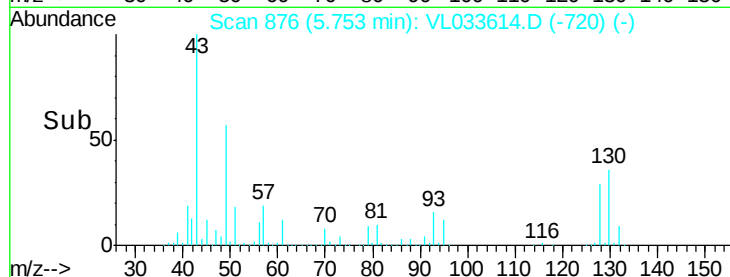
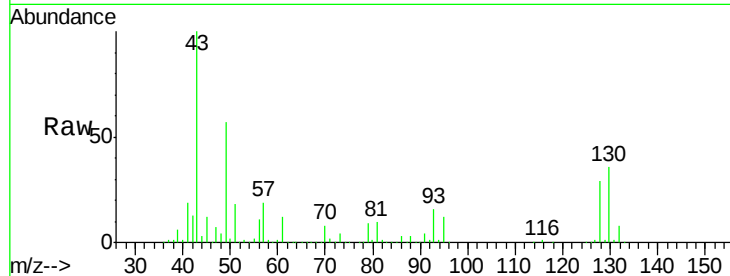
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 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.75 min Scan# 876
 Delta R.T. 0.00 min
 Lab File: VL033614.D
 Acq: 1 May 2019 11:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	49	Resp	1126620
Ion Ratio	100	Lower	Upper
128	49.9	25.0	75.0
130	64.0	31.9	95.9

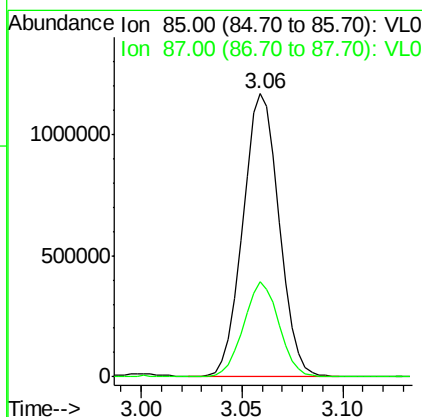
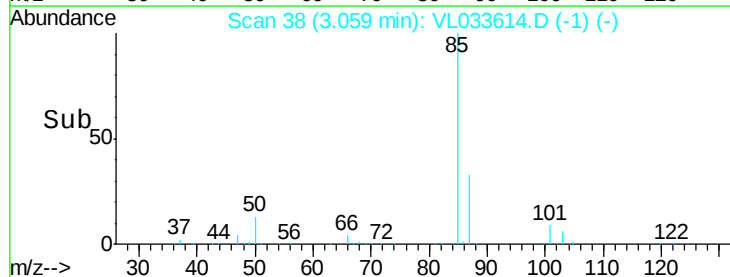
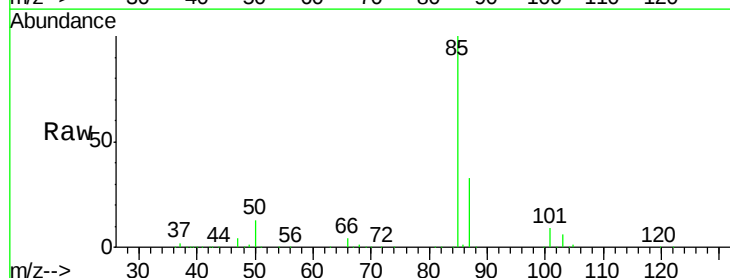
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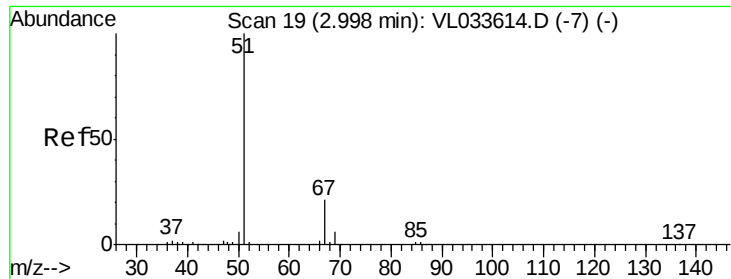
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#2
 Dichlorodifluoromethane
 Concen: 8.653 ppbv
 RT: 3.06 min Scan# 38
 Delta R.T. 0.00 min
 Lab File: VL033614.D
 Acq: 1 May 2019 11:52

Tgt Ion	85	Resp	1469189
Ion Ratio	100	Lower	Upper
87	33.5	26.8	40.2





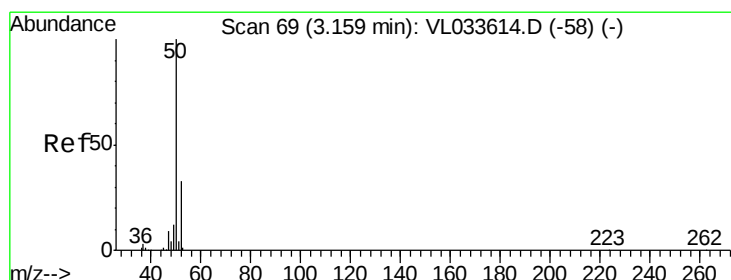
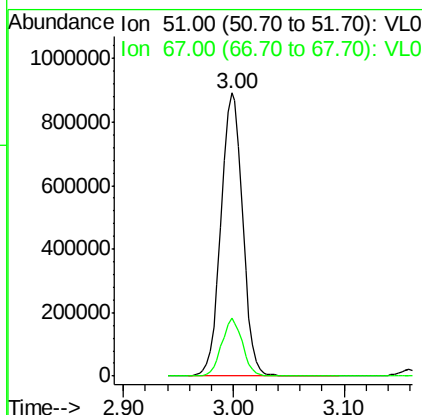
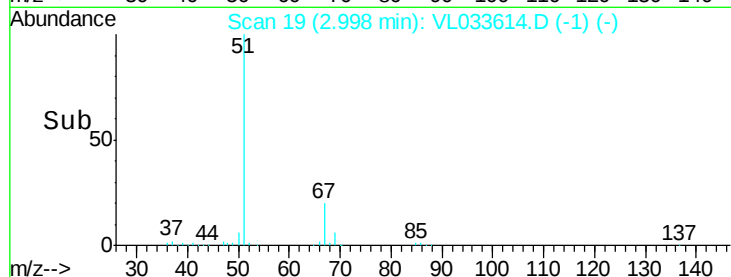
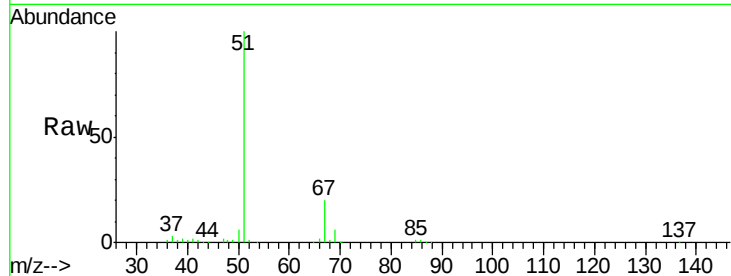
#3
Chlorodifluoromethane
Concen: 8.458 ppbv
RT: 3.00 min Scan# 19
Delta R.T. 0.00 min
Lab File: VL033614.D
Acq: 1 May 2019 11:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 51 Resp: 1219849
Ion Ratio Lower Upper
51 100
67 19.5 15.6 23.4

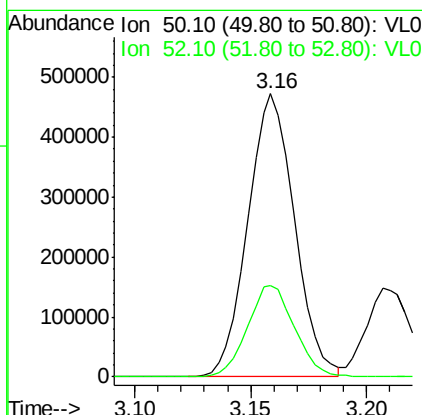
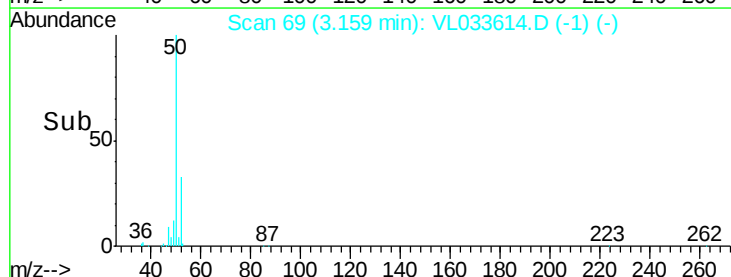
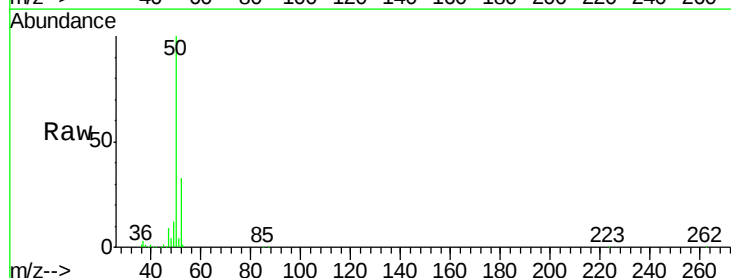
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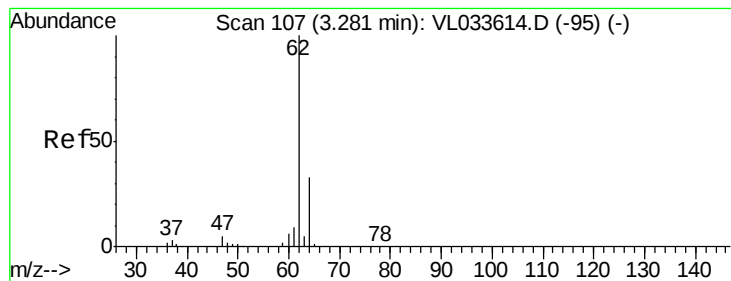
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#4
Chloromethane
Concen: 8.999 ppbv
RT: 3.16 min Scan# 69
Delta R.T. 0.00 min
Lab File: VL033614.D
Acq: 1 May 2019 11:52

Tgt Ion: 50 Resp: 660257
Ion Ratio Lower Upper
50 100
52 32.5 26.0 39.0





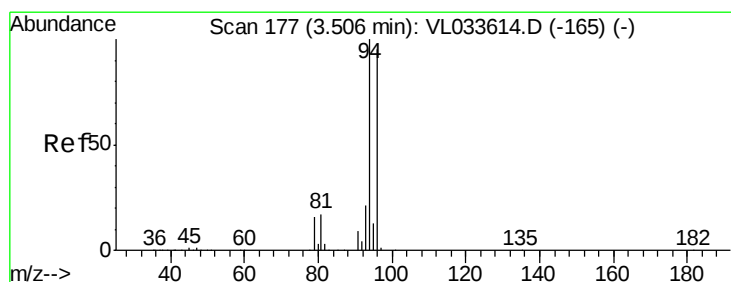
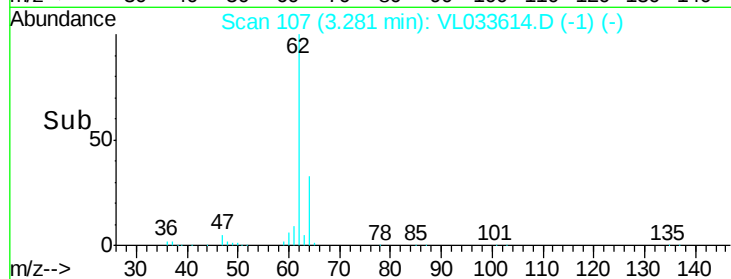
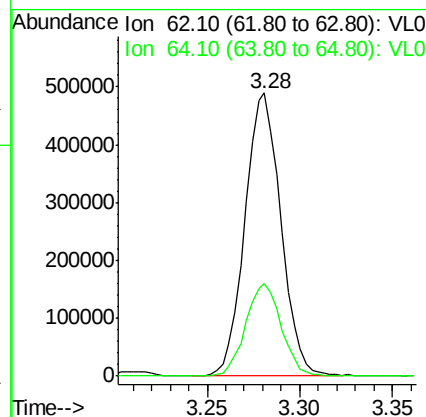
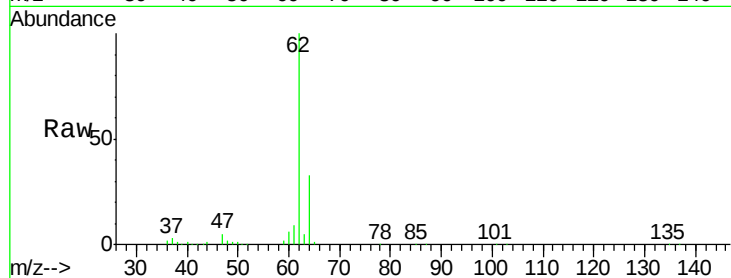
#5
 Vinyl Chloride
 Concen: 8.552 ppbv
 RT: 3.28 min Scan# 107
 Delta R.T. 0.00 min
 Lab File: VL033614.D
 Acq: 1 May 2019 11:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
62	100		
64	32.8	26.2	39.4

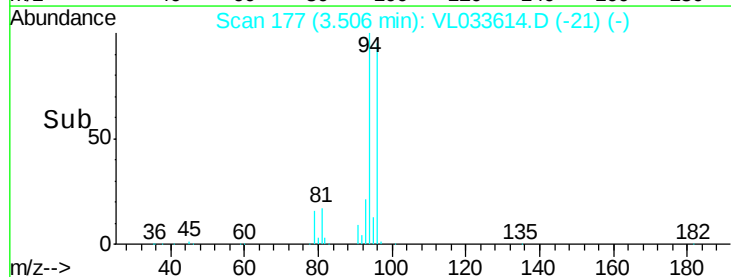
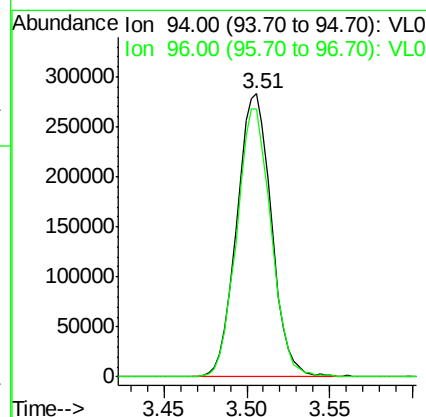
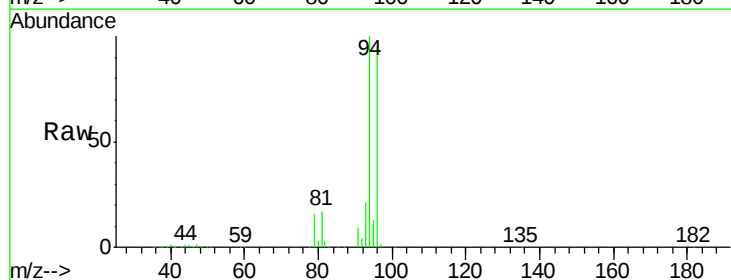
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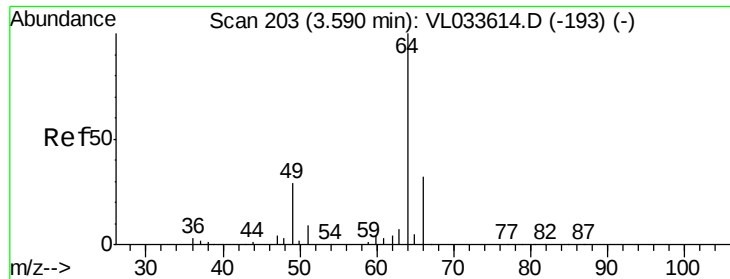
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#6
 Bromomethane
 Concen: 9.079 ppbv
 RT: 3.51 min Scan# 177
 Delta R.T. 0.00 min
 Lab File: VL033614.D
 Acq: 1 May 2019 11:52

Tgt Ion	Ratio	Lower	Upper
94	100		
96	94.6	75.7	113.5





#7

Chloroethane

Concen: 9.523 ppbv

RT: 3.59 min Scan# 203

Delta R.T. 0.00 min

Lab File: VL033614.D

Acq: 1 May 2019 11:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 64 Resp: 244373

Ion Ratio Lower Upper

64 100

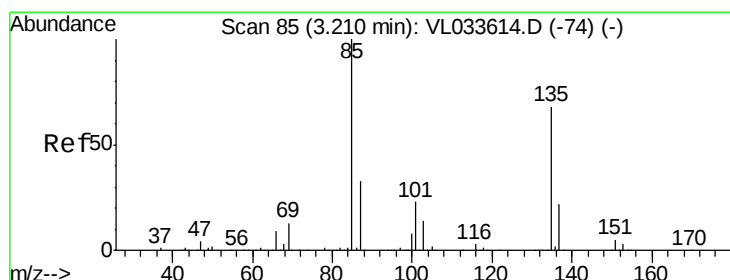
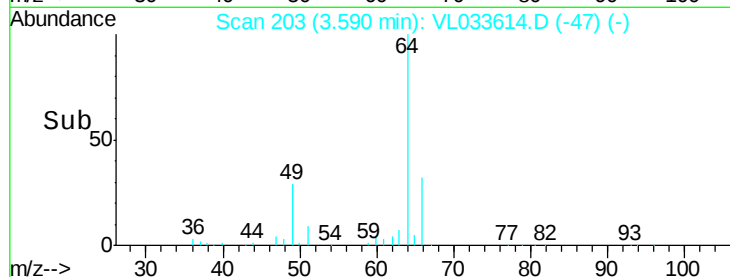
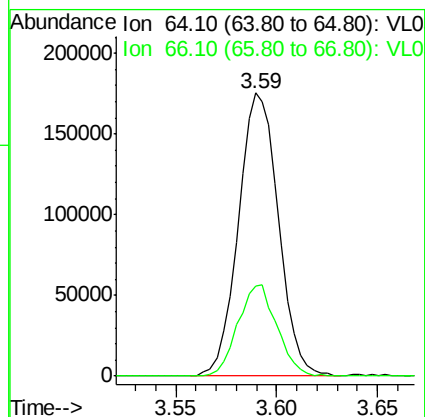
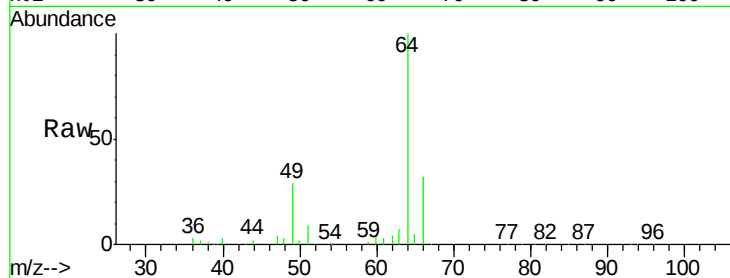
66 31.8 25.4 38.2

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 8.874 ppbv

RT: 3.21 min Scan# 85

Delta R.T. 0.00 min

Lab File: VL033614.D

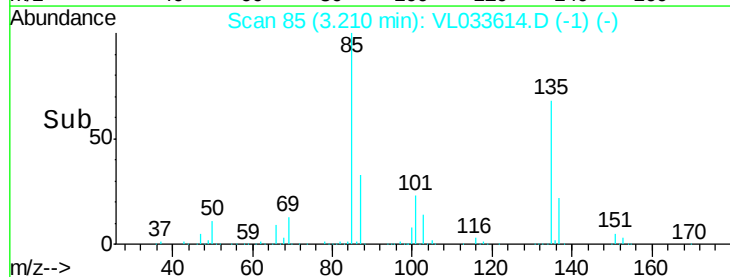
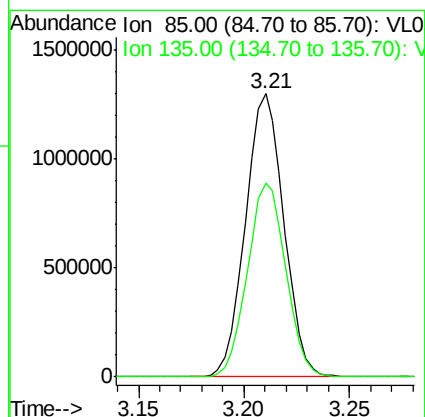
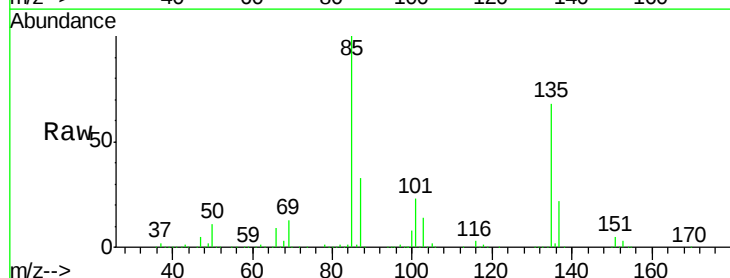
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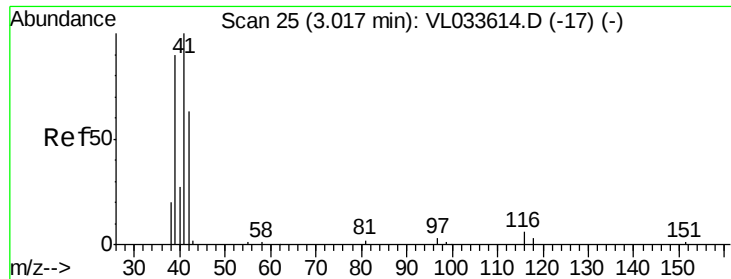
Tgt Ion: 85 Resp: 1639106

Ion Ratio Lower Upper

85 100

135 68.8 55.0 82.6





#9

Propene

Concen: 3.071 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033614.D

Acq: 1 May 2019 11:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 41 Resp: 118438

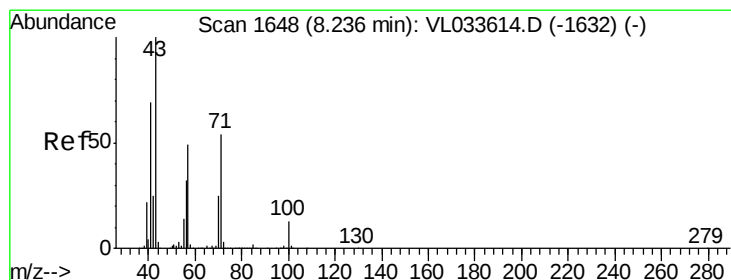
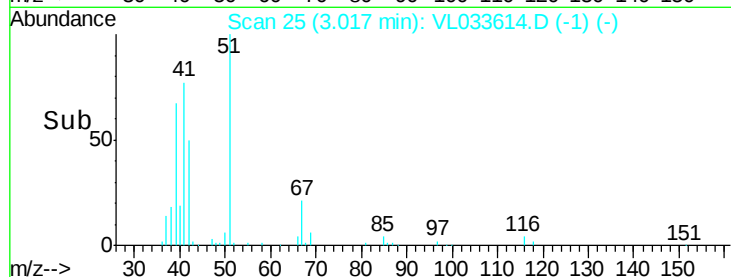
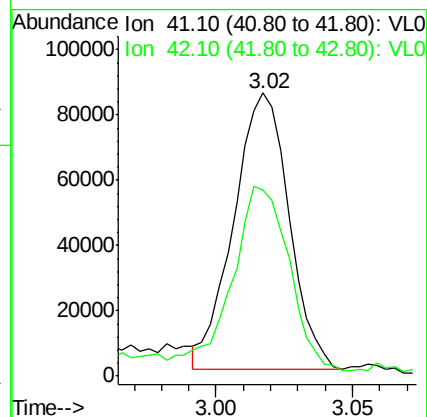
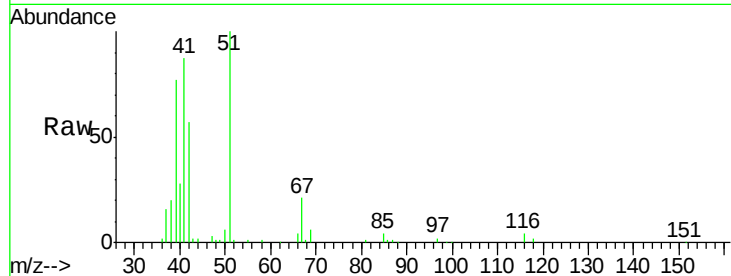
Ion Ratio Lower Upper

41 100

42 82.5 66.0 99.0

Manual Integrations
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#10

Heptane

Concen: 10.151 ppbv

RT: 8.24 min Scan# 1648

Delta R.T. 0.00 min

Lab File: VL033614.D

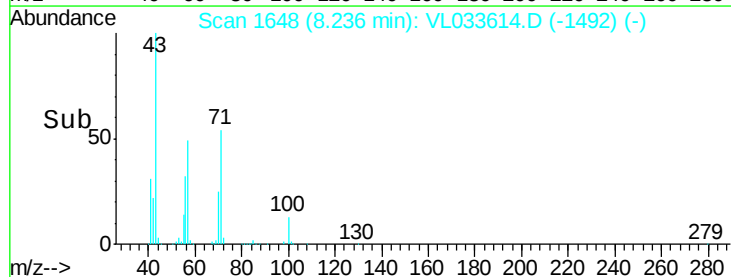
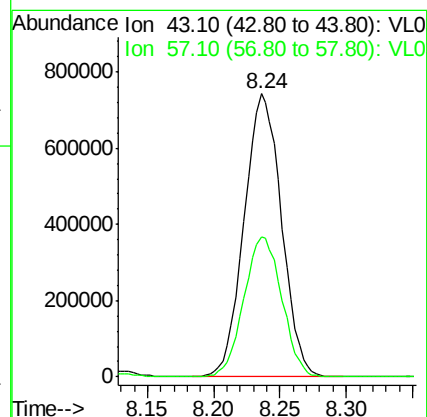
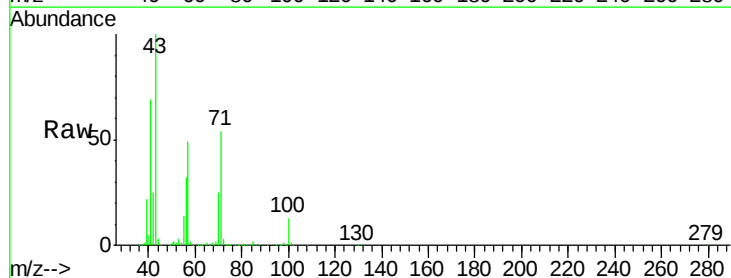
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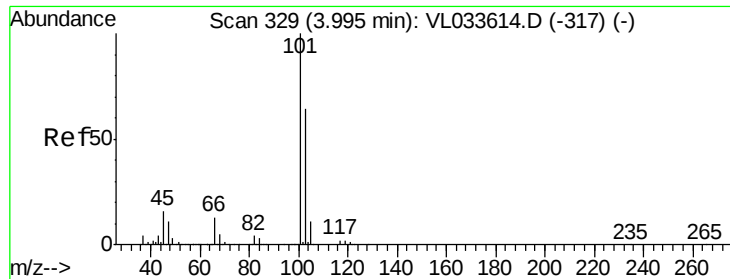
Tgt Ion: 43 Resp: 1447783

Ion Ratio Lower Upper

43 100

57 50.5 40.3 60.5





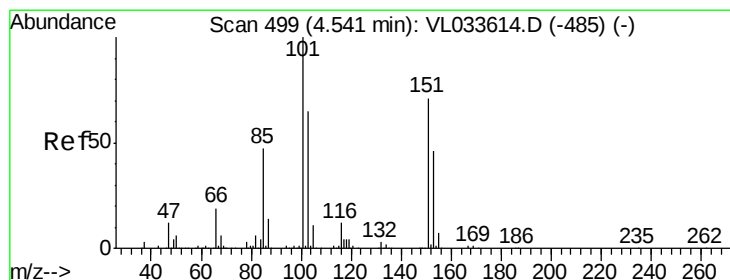
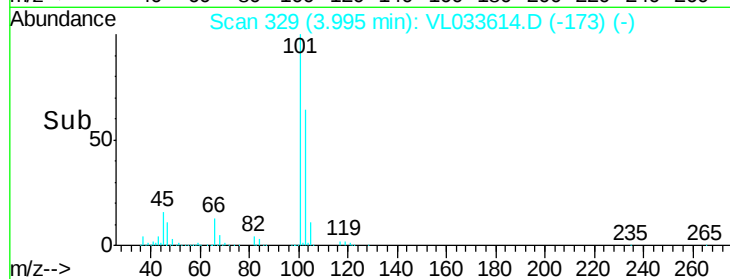
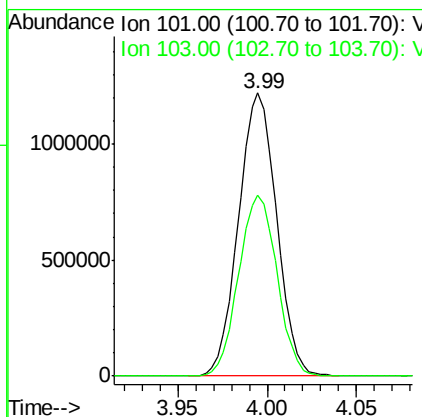
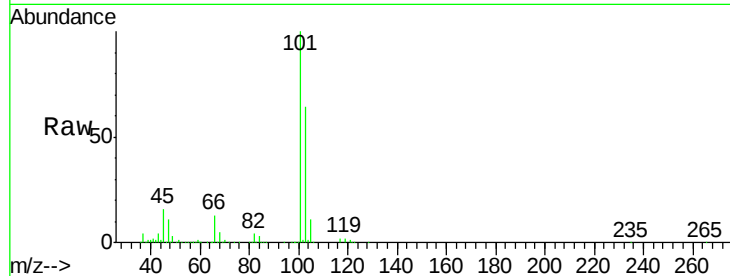
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 Trichlorofluoromethane
 Concen: 9.001 ppbv
 RT: 3.99 min Scan# 329
 Delta R.T. 0.00 min
 Lab File: VL033614.D
 Acq: 1 May 2019 11:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:101 Resp: 1816538
 Ion Ratio Lower Upper
 101 100
 103 64.0 51.2 76.8

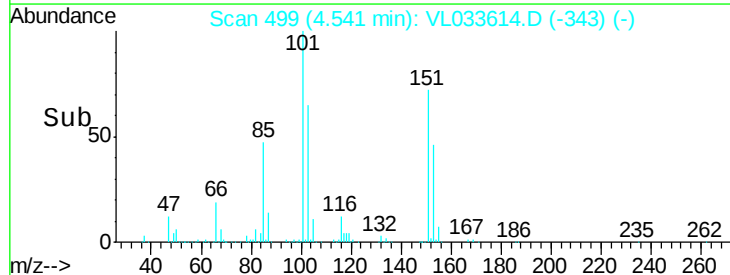
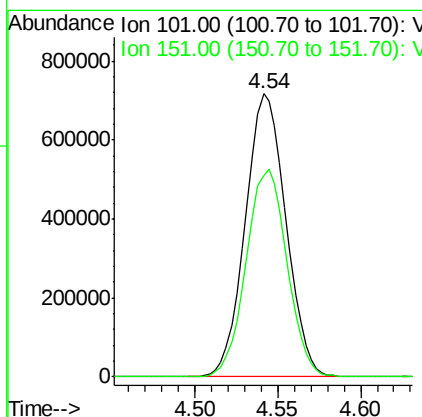
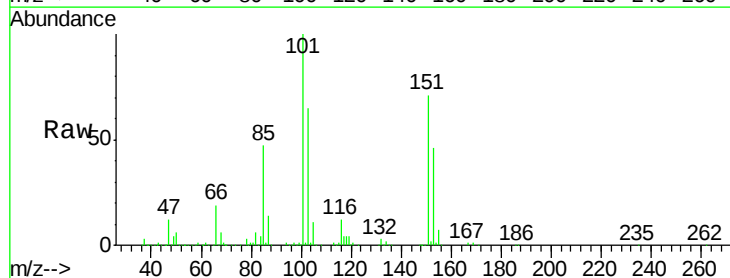
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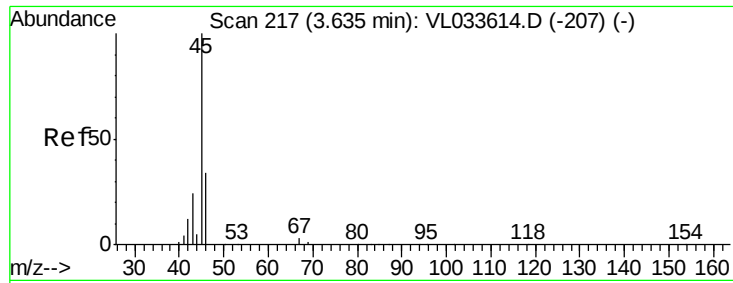
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.823 ppbv
 RT: 4.54 min Scan# 499
 Delta R.T. 0.00 min
 Lab File: VL033614.D
 Acq: 1 May 2019 11:52

Tgt Ion:101 Resp: 1221162
 Ion Ratio Lower Upper
 101 100
 151 74.2 59.2 88.8





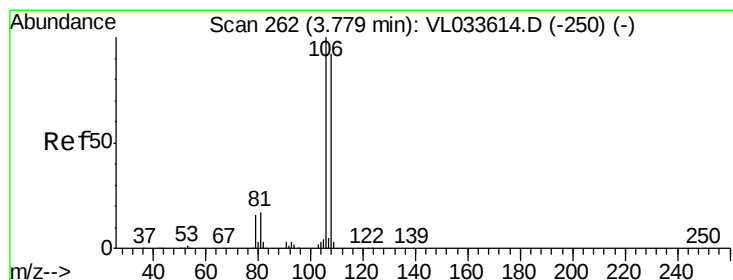
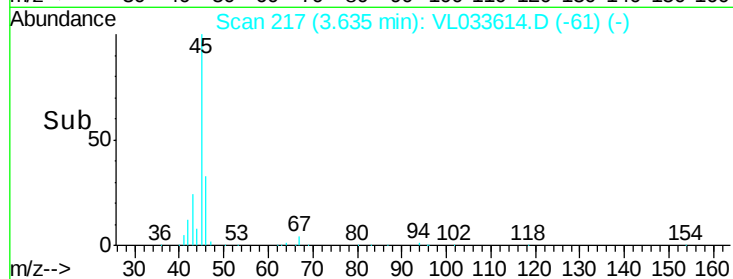
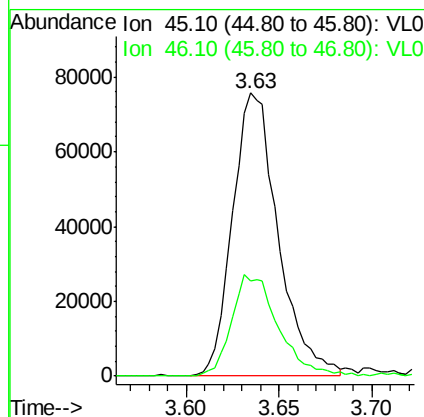
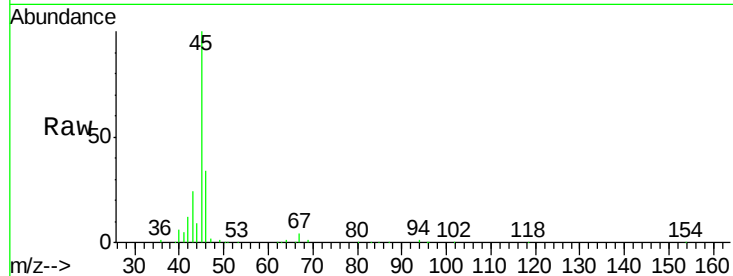
#13
Ethanol
Concen: 7.407 ppbv
RT: 3.63 min Scan# 217
Delta R.T. 0.00 min
Lab File: VL033614.D
Acq: 1 May 2019 11:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
45	100		
46	36.3	14.6	58.2

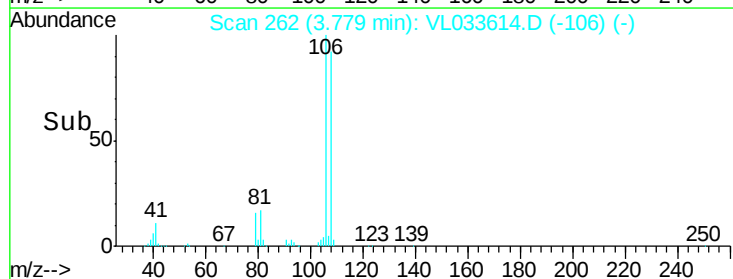
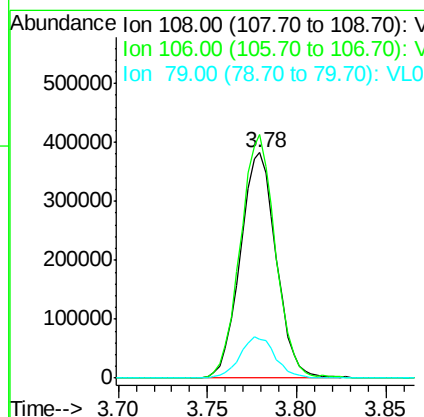
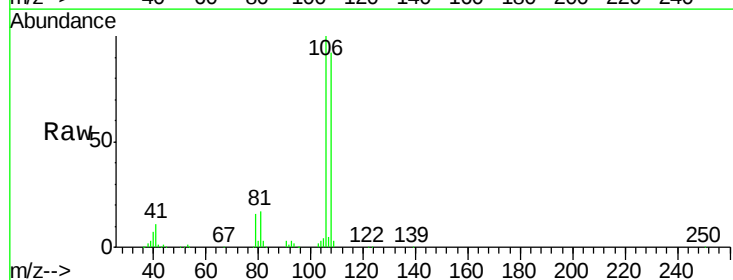
Manual Integrations
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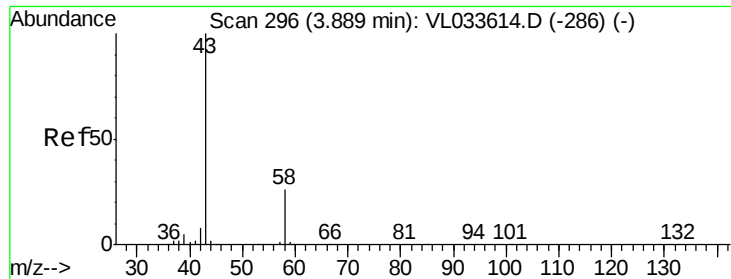
MMDadoda
5/2/2019 4:03:44 PM



#14
Bromoethene
Concen: 9.482 ppbv
RT: 3.78 min Scan# 262
Delta R.T. 0.00 min
Lab File: VL033614.D
Acq: 1 May 2019 11:52

Tgt Ion	Ratio	Lower	Upper
108	100		
106	105.9	84.6	127.0
79	18.0	14.4	21.6





#15

Acetone

Concen: 8.240 ppbv

RT: 3.89 min Scan# 296

Delta R.T. 0.00 min

Lab File: VL033614.D

Acq: 1 May 2019 11:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 1130157

Ion Ratio Lower Upper

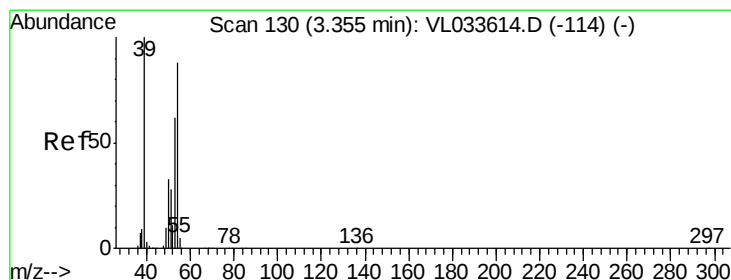
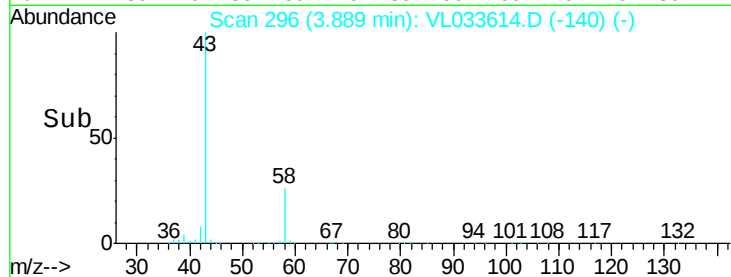
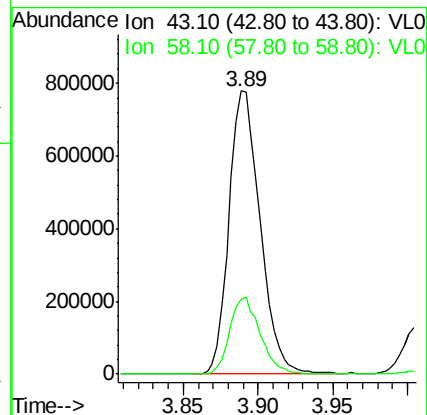
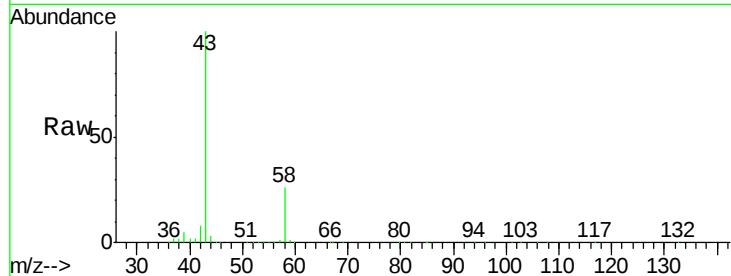
43 100

58 26.7 21.2 31.8

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#16

1,3-Butadiene

Concen: 9.568 ppbv

RT: 3.35 min Scan# 130

Delta R.T. 0.00 min

Lab File: VL033614.D

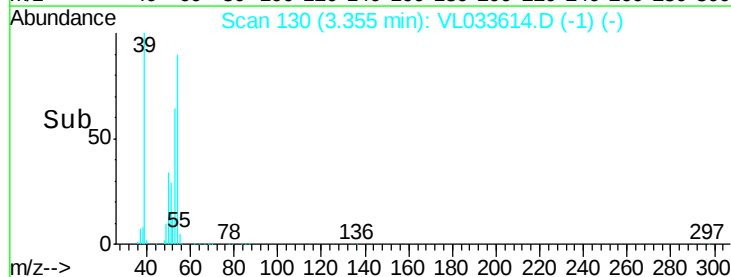
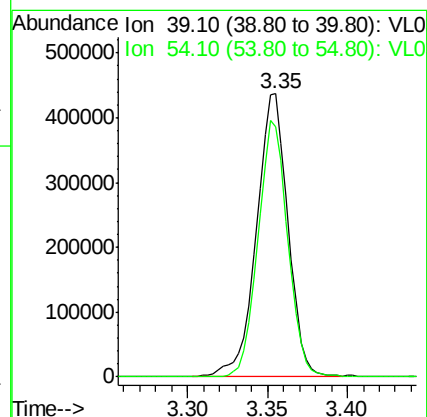
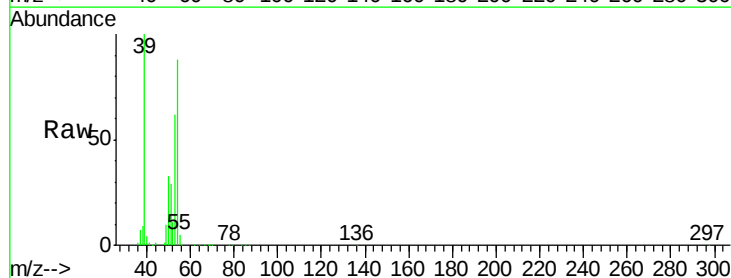
Acq: 1 May 2019 11:52

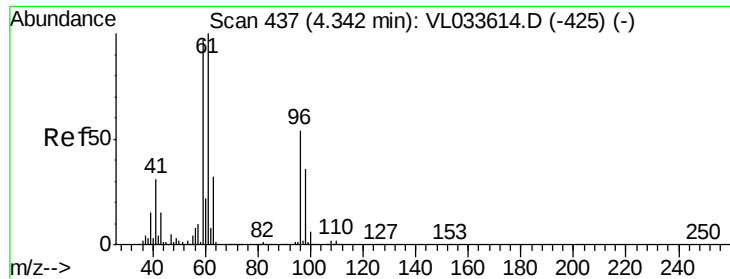
Tgt Ion: 39 Resp: 590609

Ion Ratio Lower Upper

39 100

54 85.5 68.4 102.6





#17

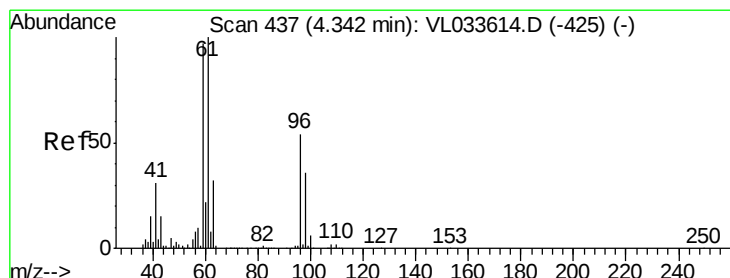
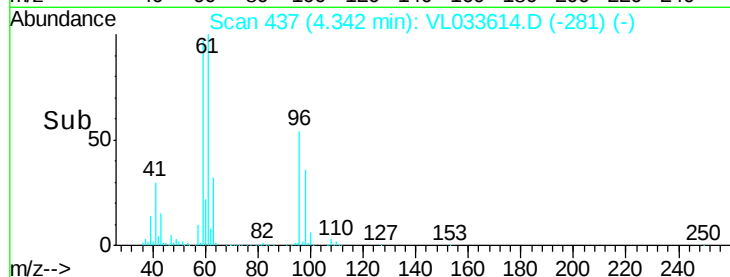
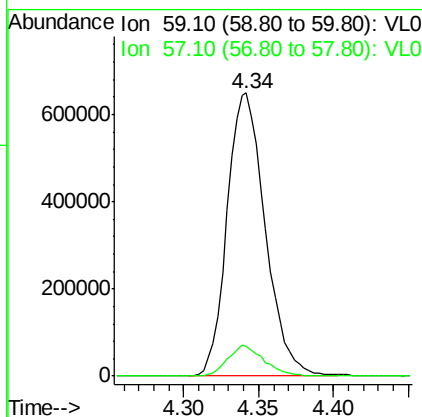
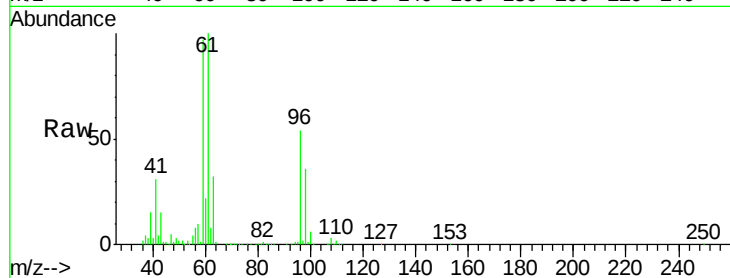
tert-Butyl alcohol
Concen: 9.707 ppbv
RT: 4.34 min Scan# 437
Delta R.T. 0.00 min
Lab File: VL033614.D
Acq: 1 May 2019 11:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 59 Resp: 1149551
Ion Ratio Lower Upper
59 100
57 10.5 8.4 12.6

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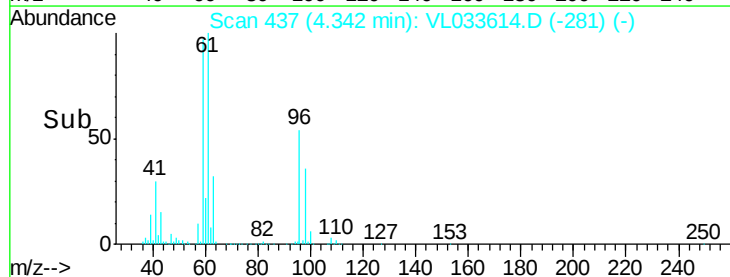
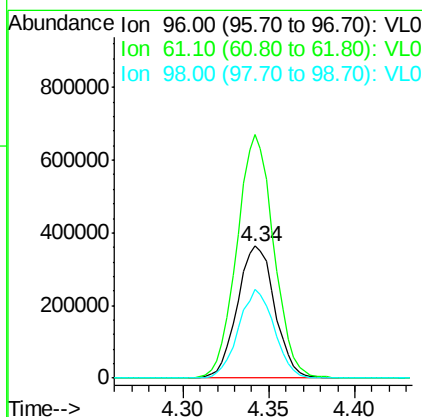
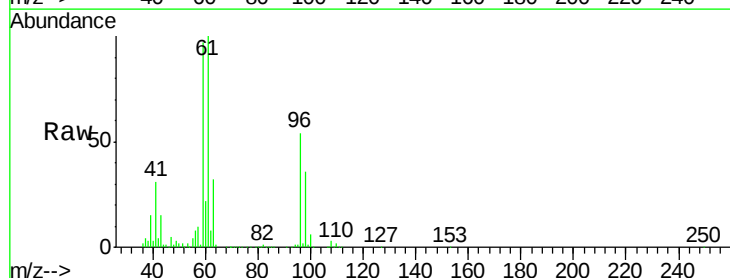
MMDadoda
5/2/2019 4:03:44 PM

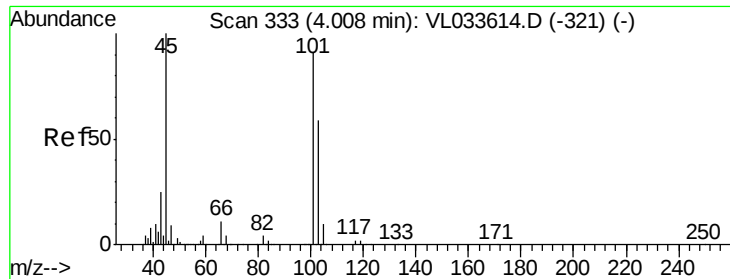


#18

1,1-Dichloroethene
Concen: 9.106 ppbv
RT: 4.34 min Scan# 437
Delta R.T. 0.00 min
Lab File: VL033614.D
Acq: 1 May 2019 11:52

Tgt Ion: 96 Resp: 547726
Ion Ratio Lower Upper
96 100
61 184.1 147.3 220.9
98 67.0 53.6 80.4





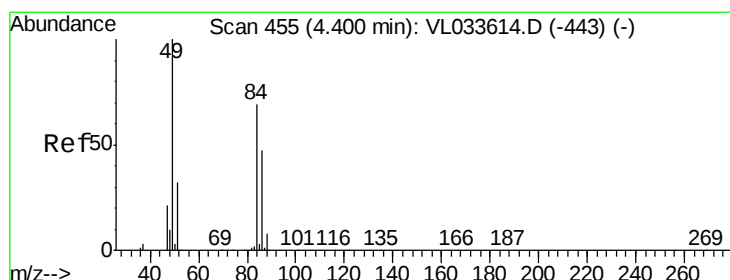
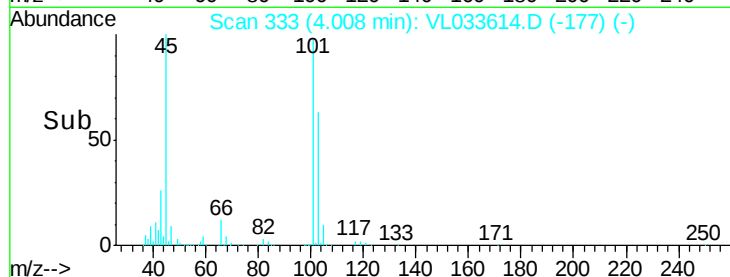
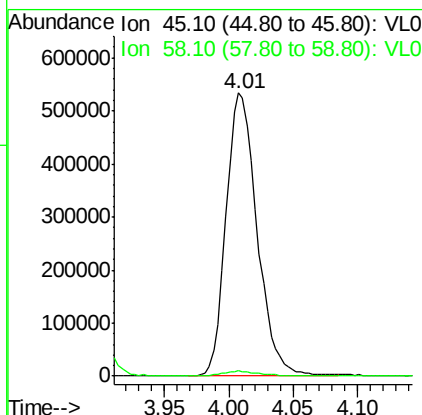
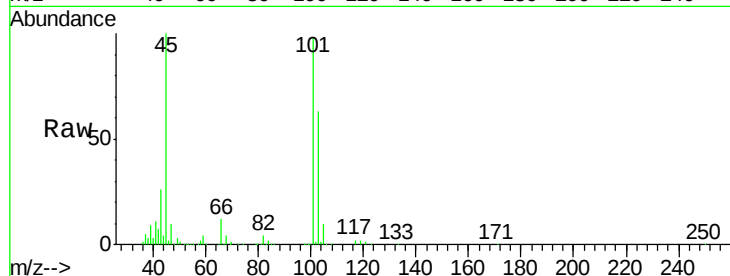
#19
Isopropyl Alcohol
Concen: 9.483 ppbv
RT: 4.01 min Scan# 333
Delta R.T. 0.00 min
Lab File: VL033614.D
Acq: 1 May 2019 11:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Resp	Lower	Upper
45	100	892775		
58	2.2		1.8	2.6

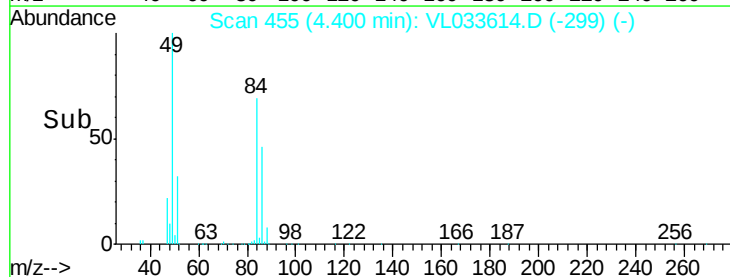
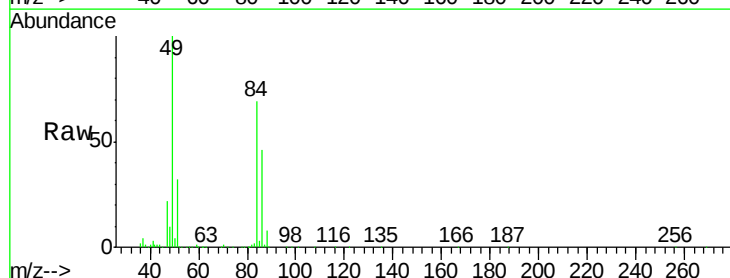
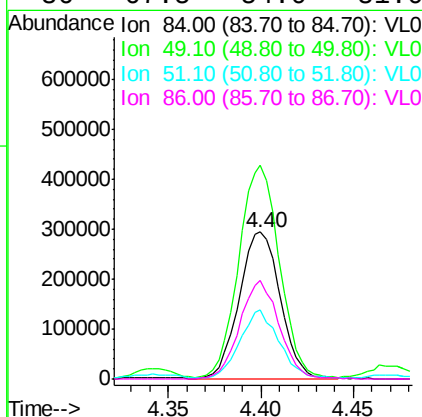
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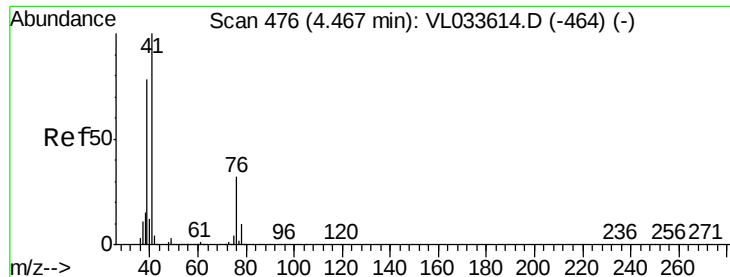
MMDadoda
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#20
Methylene Chloride
Concen: 8.414 ppbv
RT: 4.40 min Scan# 455
Delta R.T. 0.00 min
Lab File: VL033614.D
Acq: 1 May 2019 11:52

Tgt Ion	Ratio	Resp	Lower	Upper
84	100	449750		
49	145.2		116.2	174.2
51	46.3		37.0	55.6
86	67.5		54.0	81.0





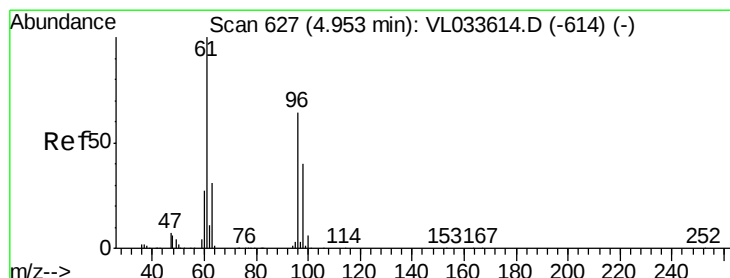
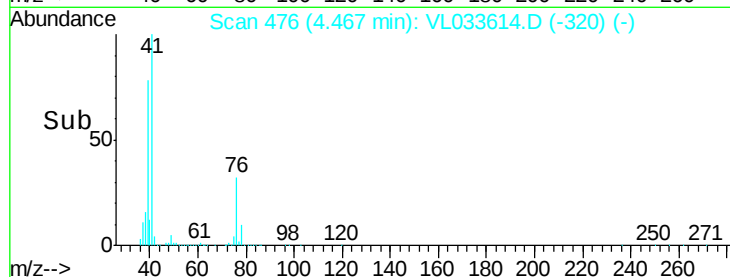
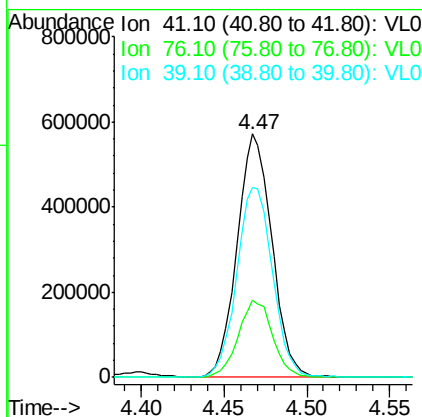
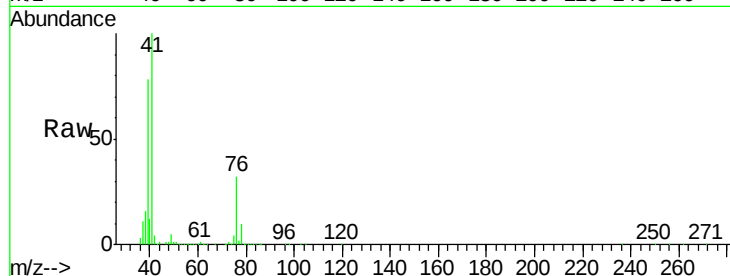
#21
Allvl Chloride
Concen: 9.641 ppbv
RT: 4.47 min Scan# 476
Delta R.T. 0.00 min
Lab File: VL033614.D
Acq: 1 May 2019 11:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion:	41	Resp:	831848
Ion Ratio		Lower	Upper
41	100		
76	31.3	25.0	37.6
39	80.7	64.6	96.8

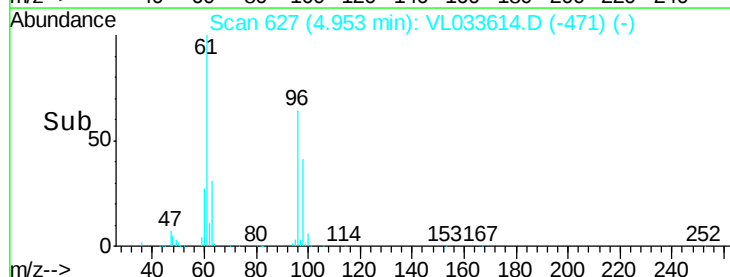
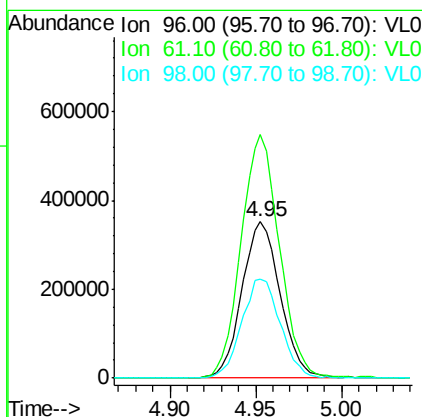
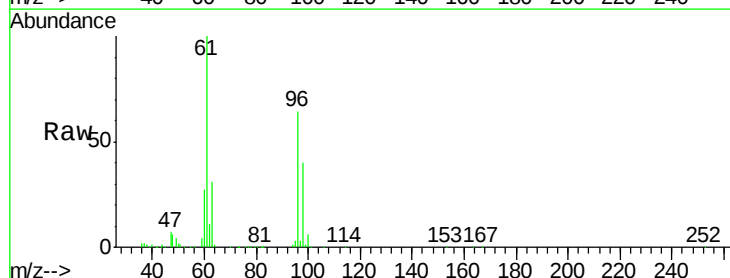
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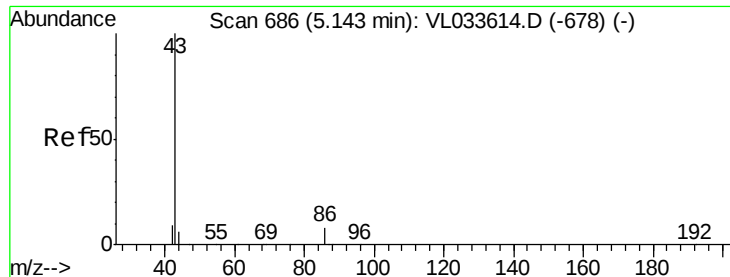
MMDadoda
5/2/2019 4:03:44 PM



#22
trans-1,2-Dichloroethene
Concen: 9.267 ppbv
RT: 4.95 min Scan# 627
Delta R.T. 0.00 min
Lab File: VL033614.D
Acq: 1 May 2019 11:52

Tgt Ion:	96	Resp:	545919
Ion Ratio		Lower	Upper
96	100		
61	156.1	124.9	187.3
98	63.1	50.5	75.7





#23

Vinyl Acetate

Concen: 10.093 ppbv

RT: 5.14 min Scan# 686

Delta R.T. 0.00 min

Lab File: VL033614.D

Acq: 1 May 2019 11:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 2058682

Ion Ratio Lower Upper

43 100

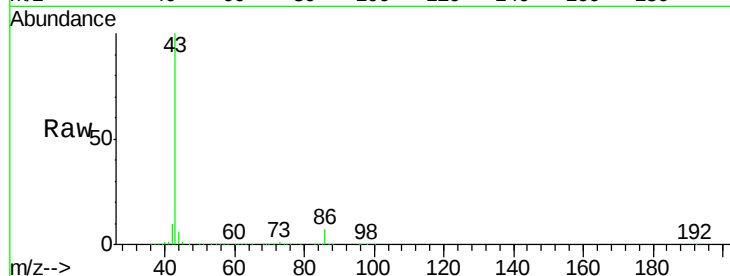
86 7.3 5.8 8.8

42 9.8 7.8 11.8

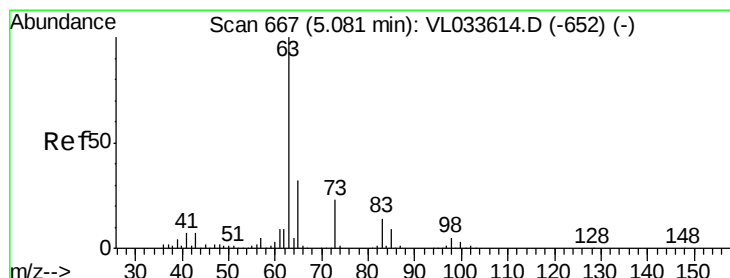
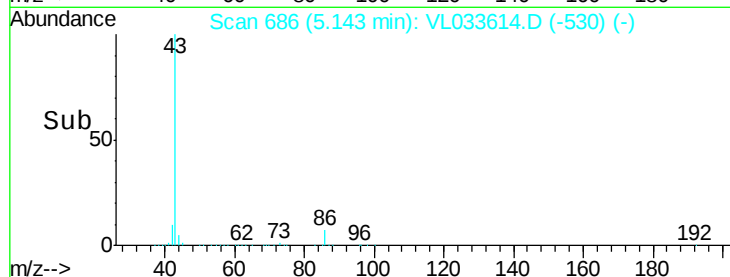
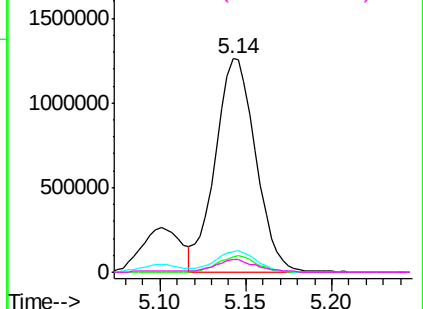
44 5.8 4.6 7.0

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



#24

1,1-Dichloroethane

Concen: 9.186 ppbv

RT: 5.08 min Scan# 667

Delta R.T. 0.00 min

Lab File: VL033614.D

Acq: 1 May 2019 11:52

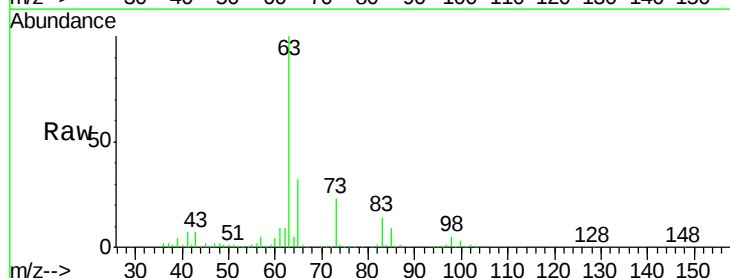
Tgt Ion: 63 Resp: 1394856

Ion Ratio Lower Upper

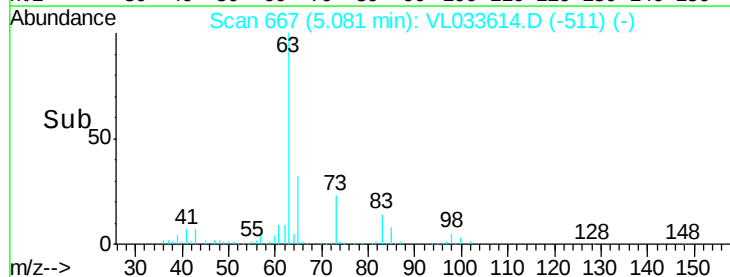
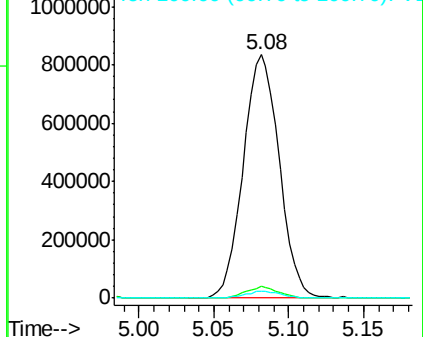
63 100

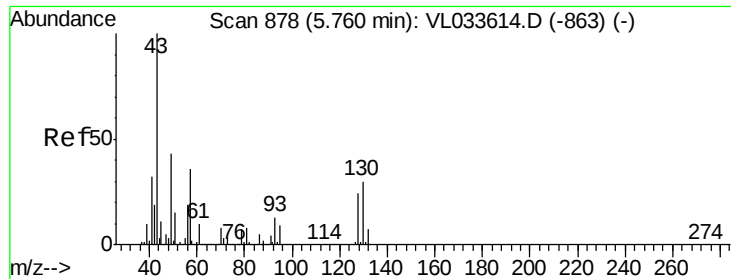
98 4.8 2.4 7.2

100 2.7 1.4 4.0



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





#25

Ethyl Acetate

Concen: 9.410 ppbv

RT: 5.76 min Scan# 878

Delta R.T. 0.00 min

Lab File: VL033614.D

Acq: 1 May 2019 11:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 2449535

Ion Ratio Lower Upper

43 100

45 10.1 8.1 12.1

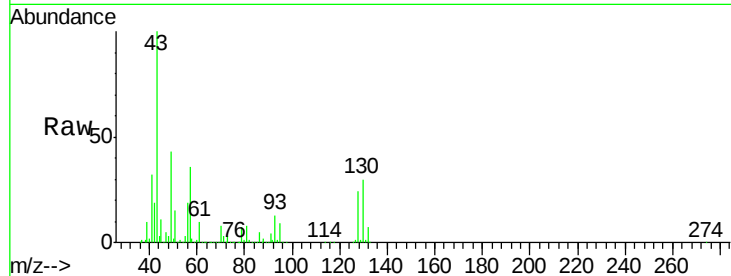
61 9.4 7.5 11.3

70 7.2 5.8 8.6

Manual Integrations
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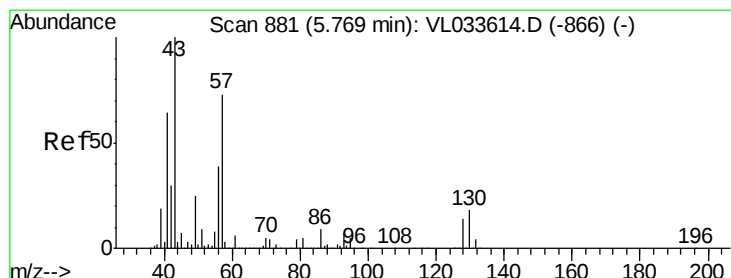
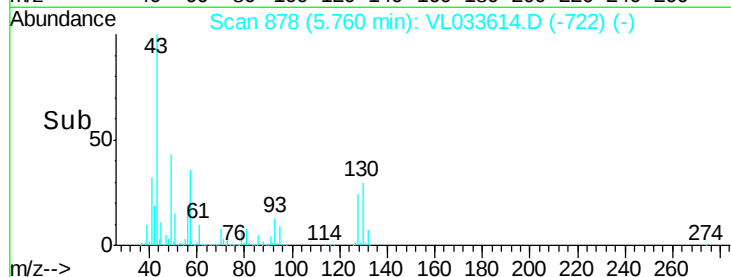
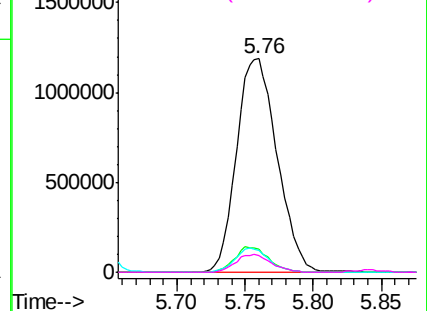


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.652 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.00 min

Lab File: VL033614.D

Acq: 1 May 2019 11:52

Tgt Ion: 57 Resp: 1058042

Ion Ratio Lower Upper

57 100

41 88.2 70.6 106.0

43 232.8 186.0 279.0

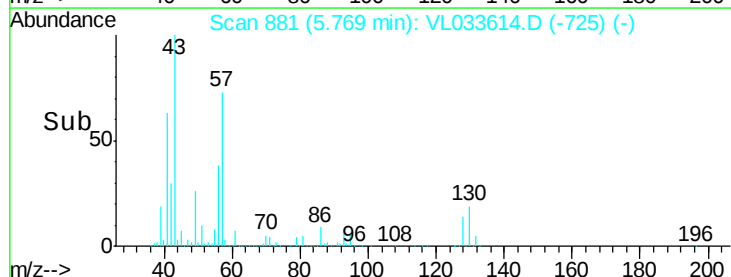
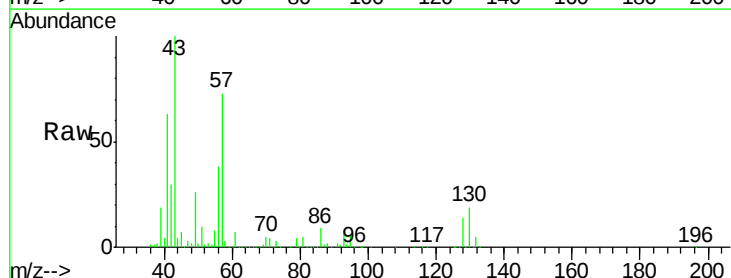
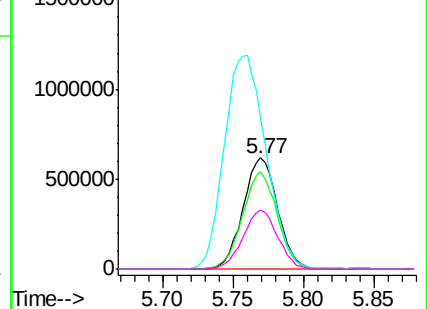
56 53.4 42.7 64.1

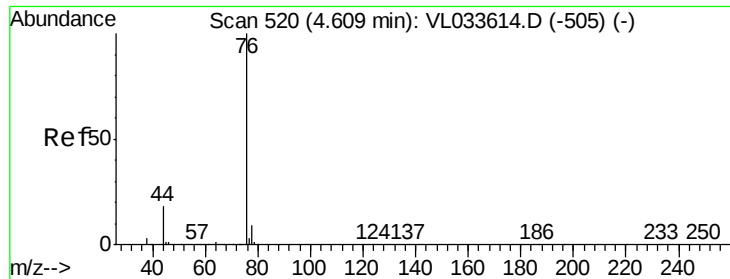
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 10.387 ppbv

RT: 4.61 min Scan# 520

Delta R.T. 0.00 min

Lab File: VL033614.D

Acq: 1 May 2019 11:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 76 Resp: 1378891

Ion Ratio Lower Upper

76 100

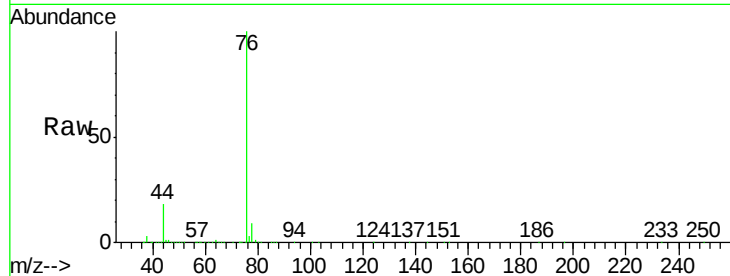
44 18.0 14.3 21.5

78 9.2 7.5 11.3

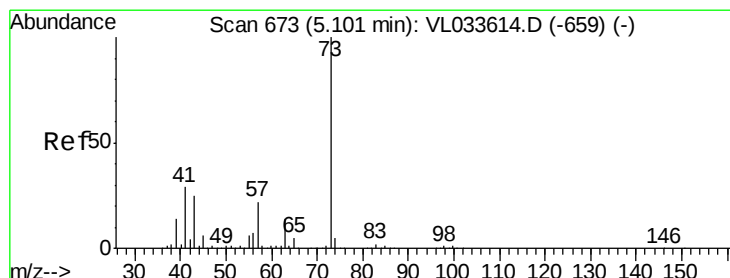
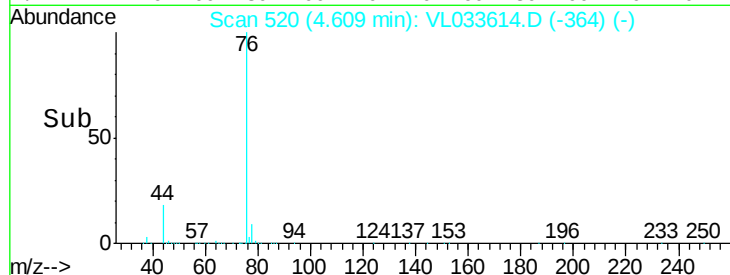
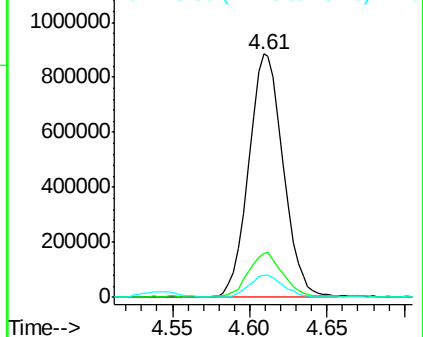
Manual Integrations
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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.996 ppbv

RT: 5.10 min Scan# 673

Delta R.T. 0.00 min

Lab File: VL033614.D

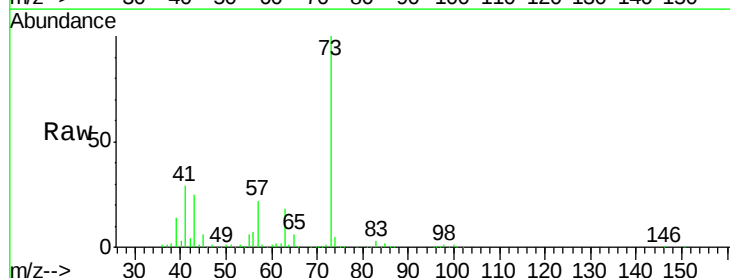
Acq: 1 May 2019 11:52

Tgt Ion: 73 Resp: 1847632

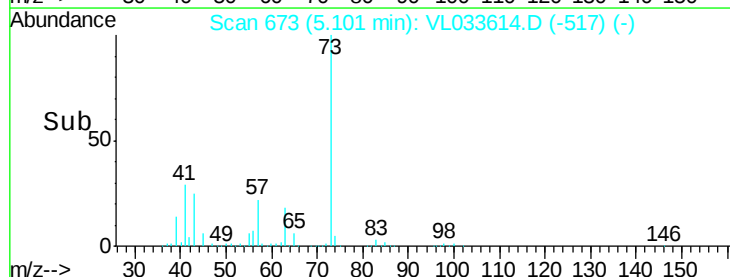
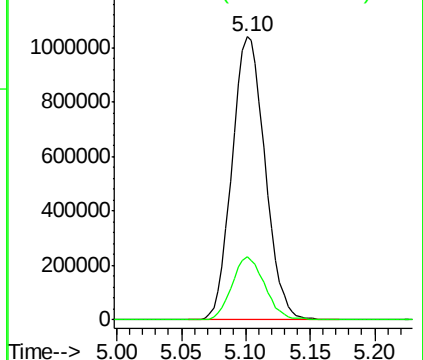
Ion Ratio Lower Upper

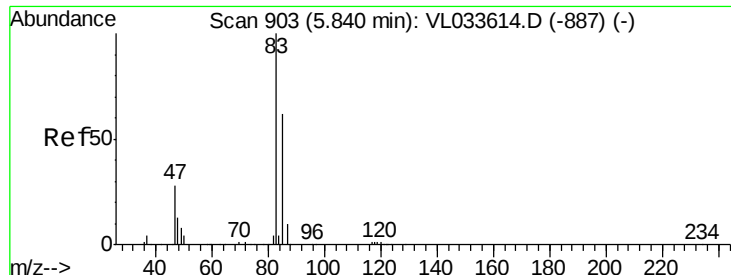
73 100

57 22.2 17.8 26.8



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





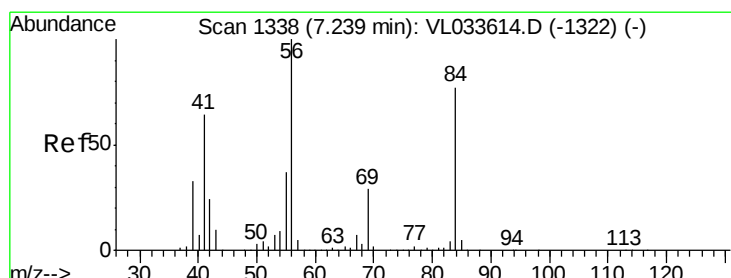
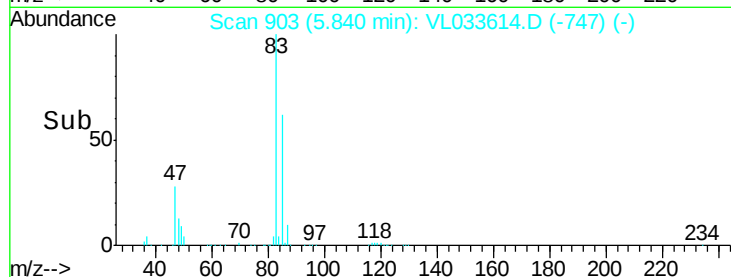
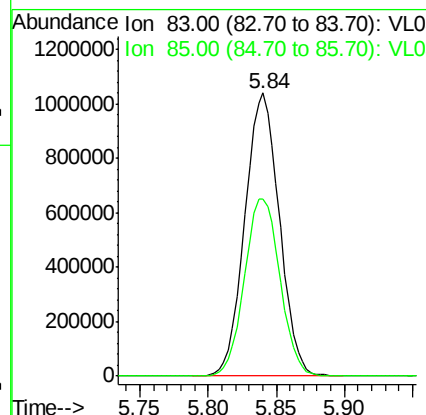
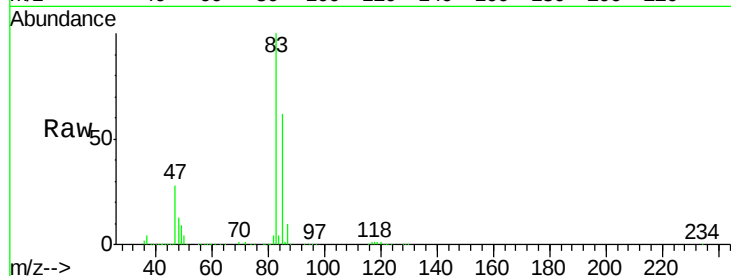
#29
Chloroform
Concen: 9.101 ppbv
RT: 5.84 min Scan# 903
Delta R.T. 0.00 min
Lab File: VL033614.D
Acq: 1 May 2019 11:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 83 Resp: 1828402
Ion Ratio Lower Upper
83 100
85 62.4 49.9 74.9

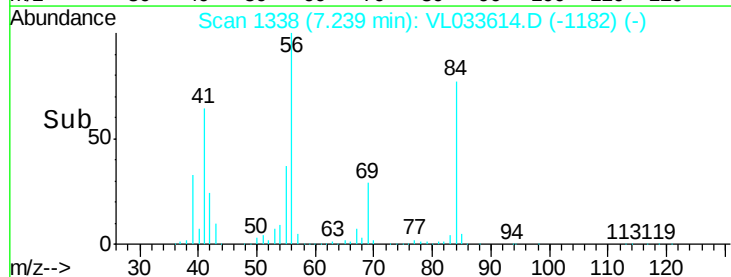
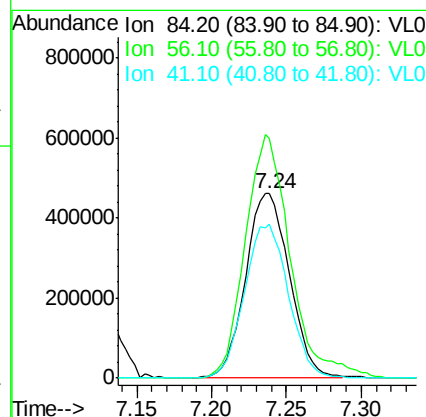
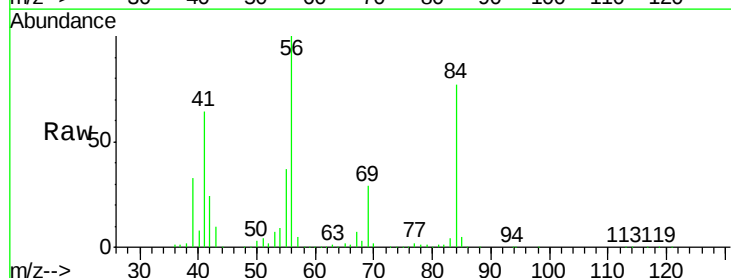
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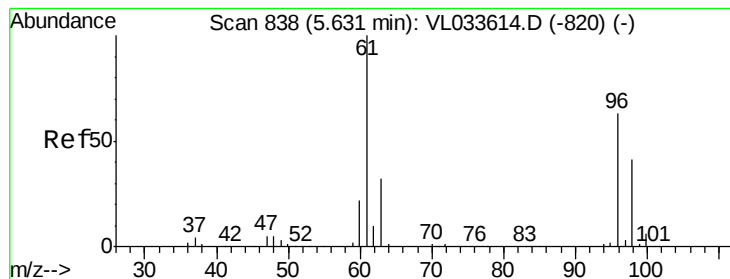
MMDadoda
5/2/2019 4:03:44 PM



#30
Cyclohexane
Concen: 9.916 ppbv
RT: 7.24 min Scan# 1338
Delta R.T. 0.00 min
Lab File: VL033614.D
Acq: 1 May 2019 11:52

Tgt Ion: 84 Resp: 942349
Ion Ratio Lower Upper
84 100
56 135.5 108.4 162.6
41 83.7 67.0 100.4





#31

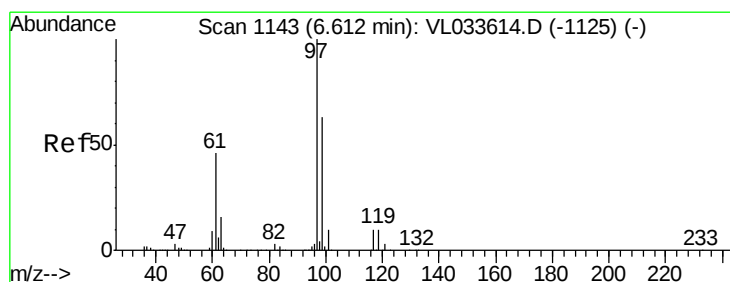
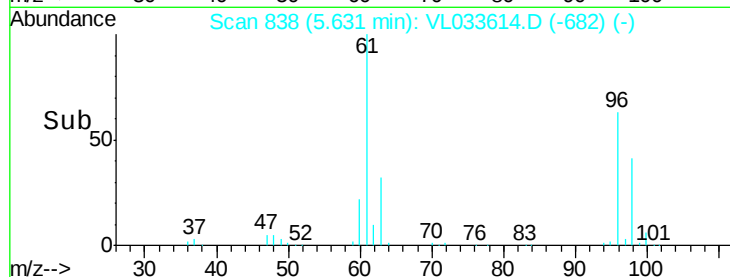
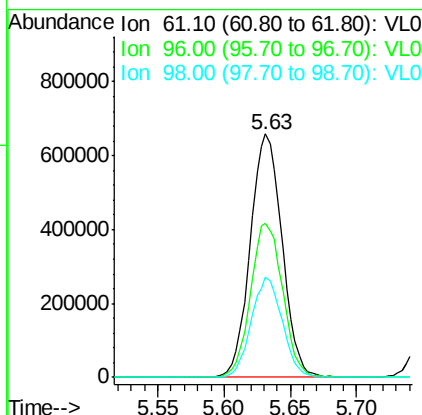
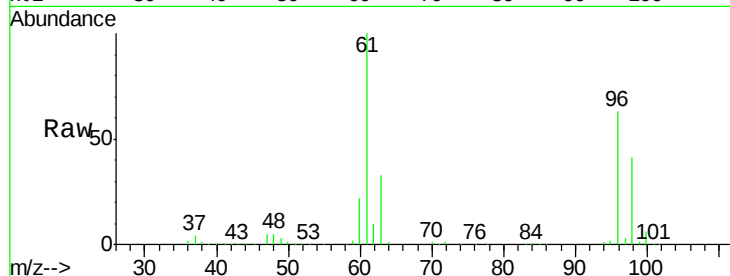
cis-1,2-Dichloroethene
Concen: 9.948 ppbv
RT: 5.63 min Scan# 838
Delta R.T. 0.00 min
Lab File: VL033614.D
Acq: 1 May 2019 11:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	63.3	50.6	76.0
98	41.0	32.8	49.2

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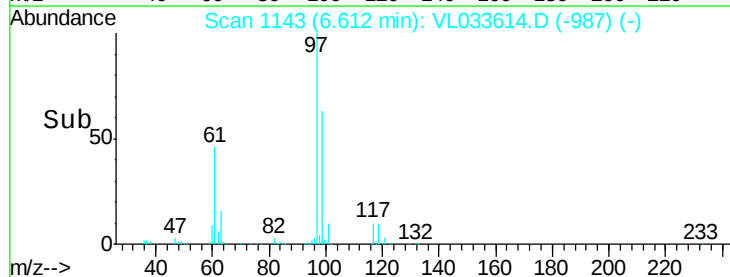
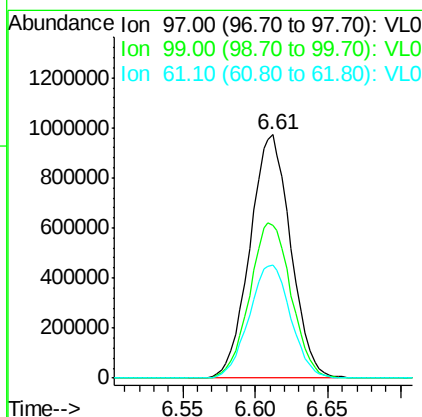
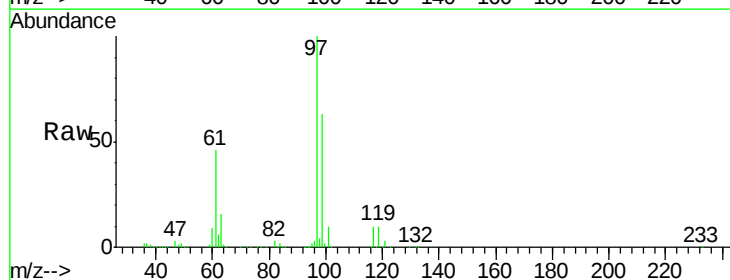
MMDadoda
5/2/2019 4:03:44 PM

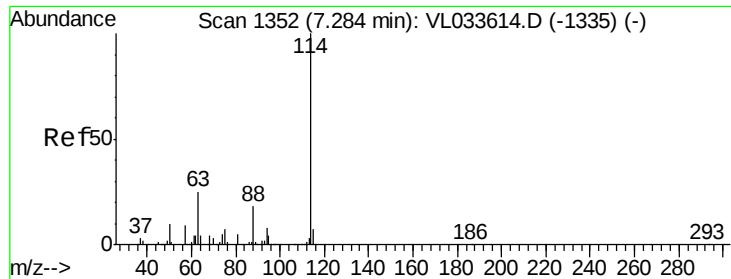


#32

1,1,1-Trichloroethane
Concen: 9.040 ppbv
RT: 6.61 min Scan# 1143
Delta R.T. 0.00 min
Lab File: VL033614.D
Acq: 1 May 2019 11:52

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.9	77.9
61	47.6	38.2	57.2





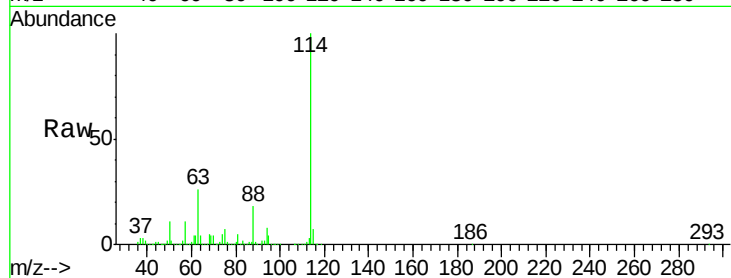
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. 0.00 min
 Lab File: VL033614.D
 Acq: 1 May 2019 11:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

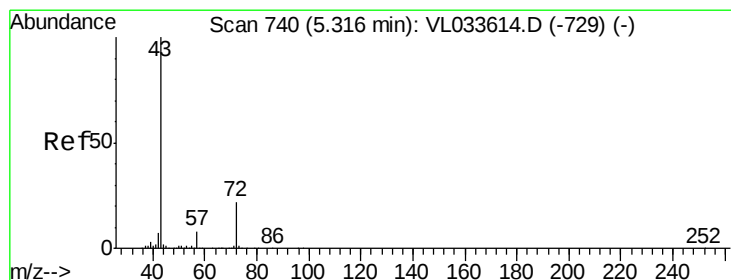
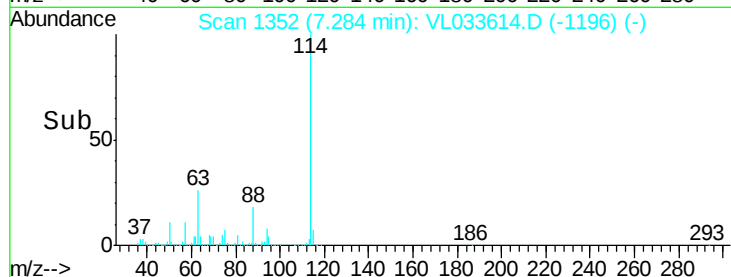
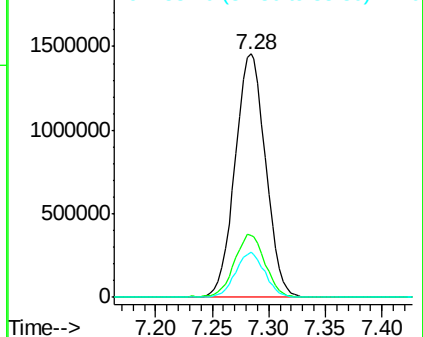
Tot Ion	Ratio	Lower	Upper
114	100		
63	26.4	21.1	31.7
88	17.8	14.2	21.4

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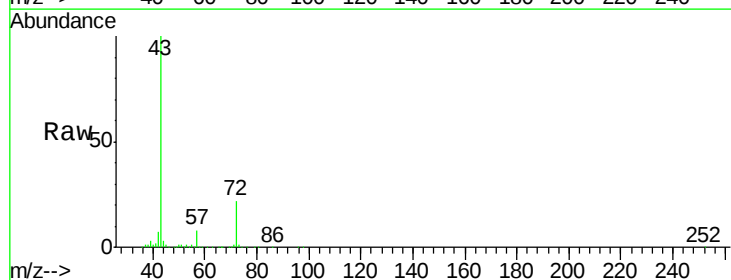


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

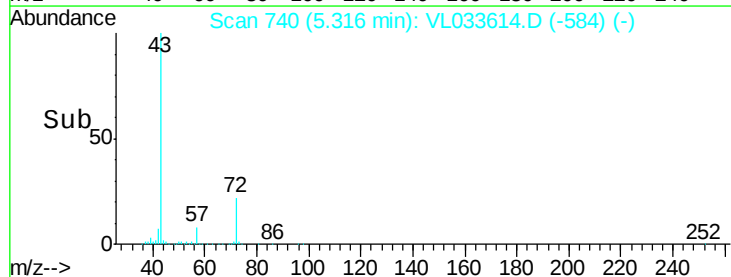
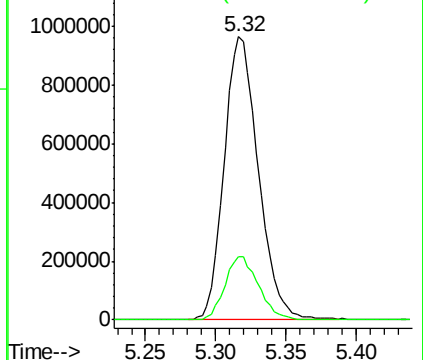


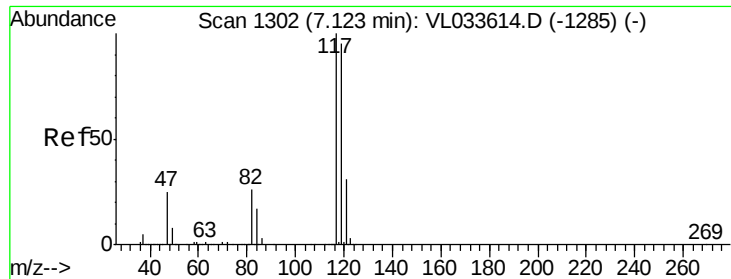
#34
 2-Butanone
 Concen: 9.661 ppbv
 RT: 5.32 min Scan# 740
 Delta R.T. 0.00 min
 Lab File: VL033614.D
 Acq: 1 May 2019 11:52

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.2	17.8	26.8



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.395 ppbv

RT: 7.12 min Scan# 1302

Delta R.T. 0.00 min

Lab File: VL033614.D

Acq: 1 May 2019 11:52

Instrument :

MSVOA_L

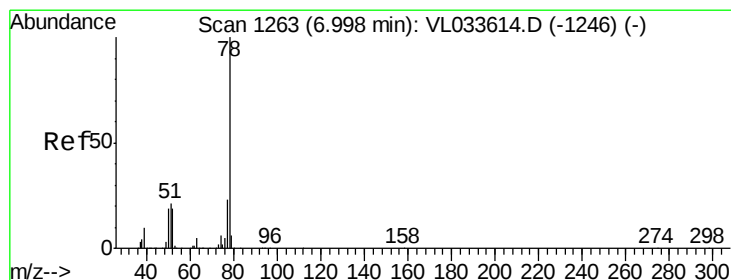
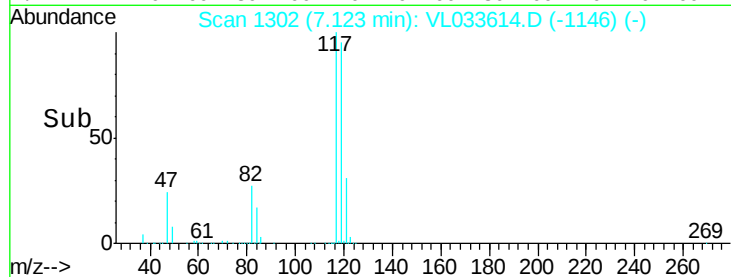
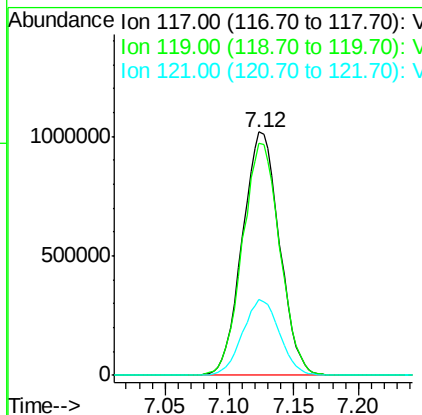
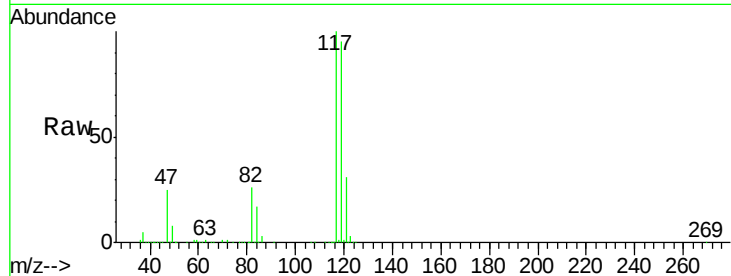
ClientSampleId :

VSTDICCC010

Tot Ion	Ratio	Lower	Upper
117	100		
119	95.3	76.2	114.4
121	31.1	24.9	37.3

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#36

Benzene

Concen: 9.734 ppbv

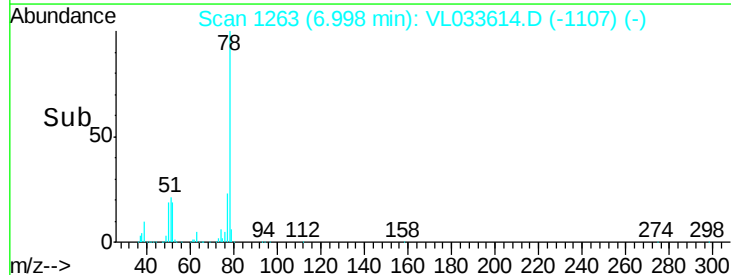
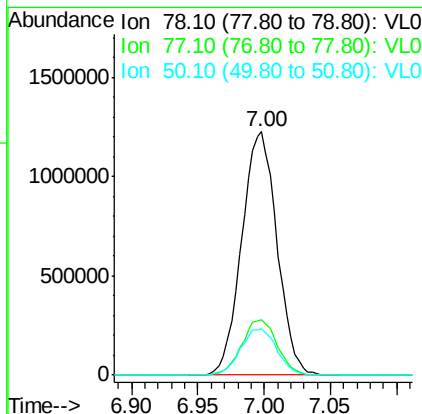
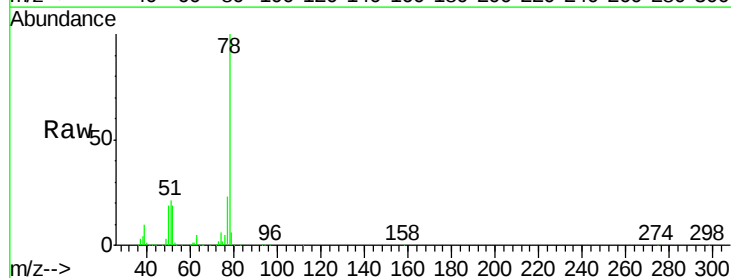
RT: 7.00 min Scan# 1263

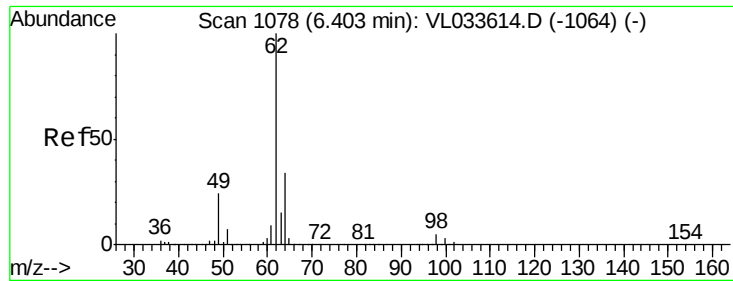
Delta R.T. 0.00 min

Lab File: VL033614.D

Acq: 1 May 2019 11:52

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.6	18.1	27.1
50	18.9	15.1	22.7





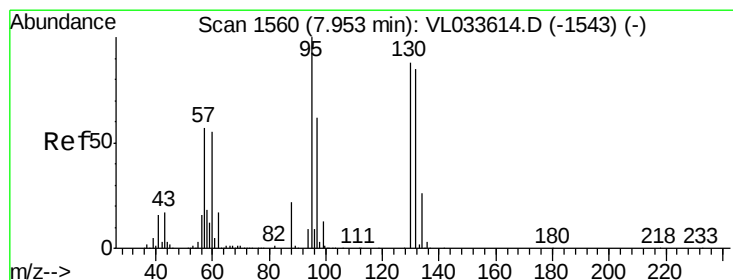
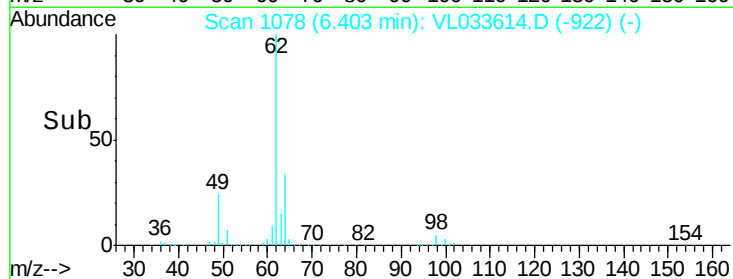
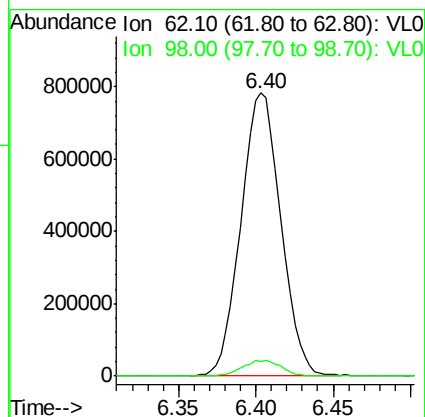
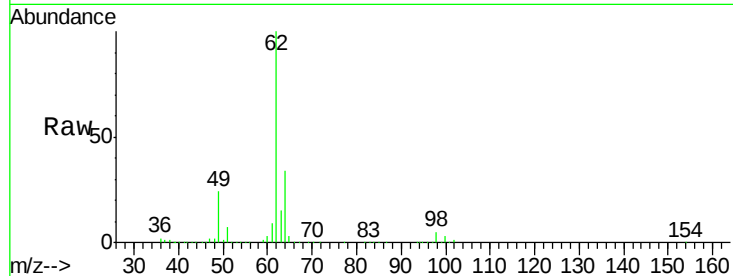
#37
1,2-Dichloroethane
Concen: 9.045 ppbv
RT: 6.40 min Scan# 1078
Delta R.T. 0.00 min
Lab File: VL033614.D
Acq: 1 May 2019 11:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 62 Resp: 1403302
Ion Ratio Lower Upper
62 100
98 5.5 4.4 6.6

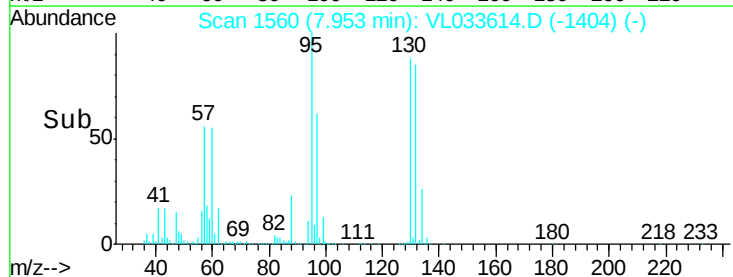
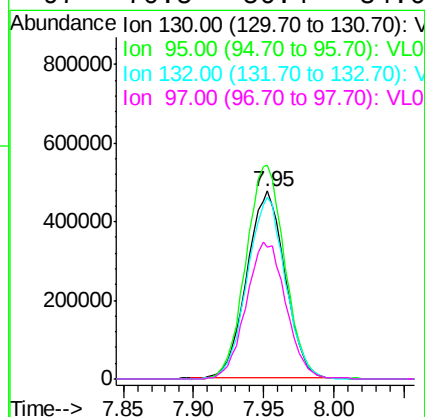
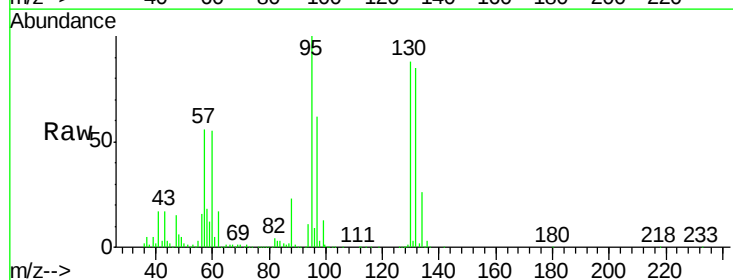
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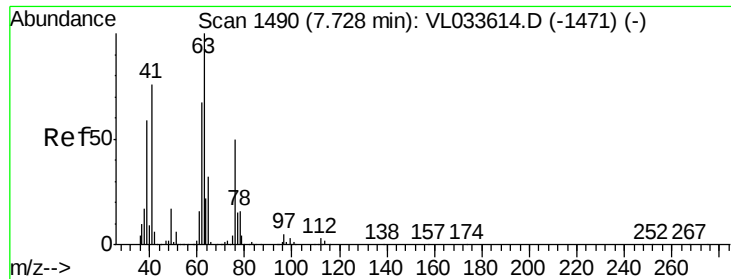
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#38
Trichloroethene
Concen: 9.687 ppbv
RT: 7.95 min Scan# 1560
Delta R.T. 0.00 min
Lab File: VL033614.D
Acq: 1 May 2019 11:52

Tgt Ion:130 Resp: 906057
Ion Ratio Lower Upper
130 100
95 114.0 91.2 136.8
132 97.3 77.8 116.8
97 70.5 56.4 84.6





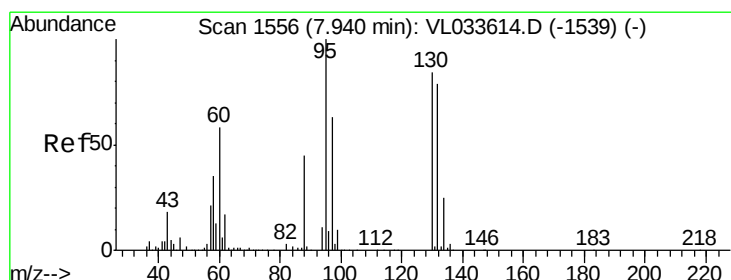
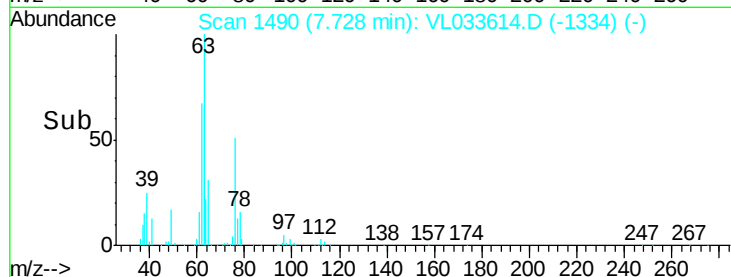
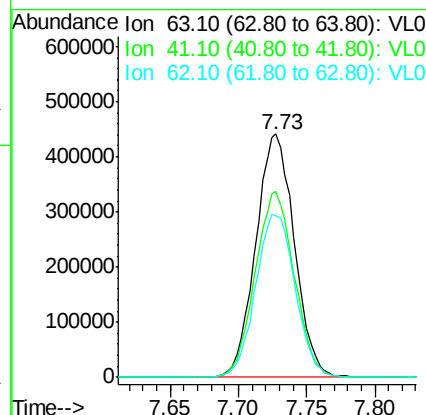
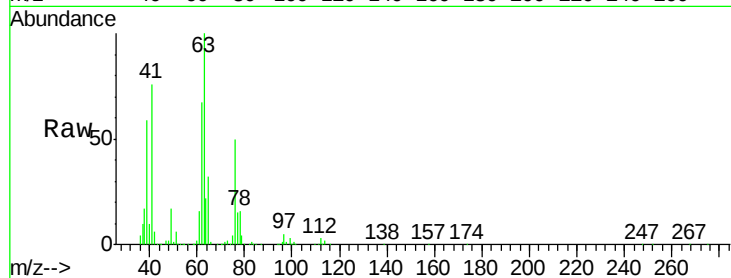
#39
 1,2-Dichloropropane
 Concen: 9.826 ppbv
 RT: 7.73 min Scan# 1490
 Delta R.T. 0.00 min
 Lab File: VL033614.D
 Acq: 1 May 2019 11:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	76.1	60.9	91.3
62	66.6	53.3	79.9

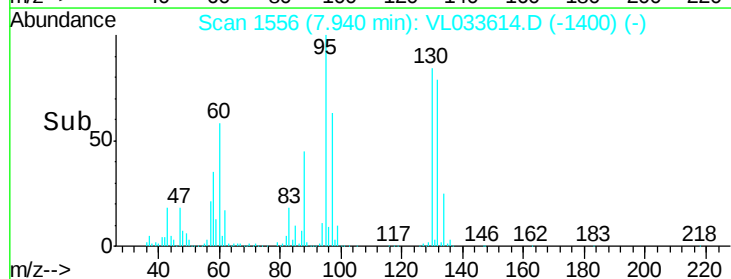
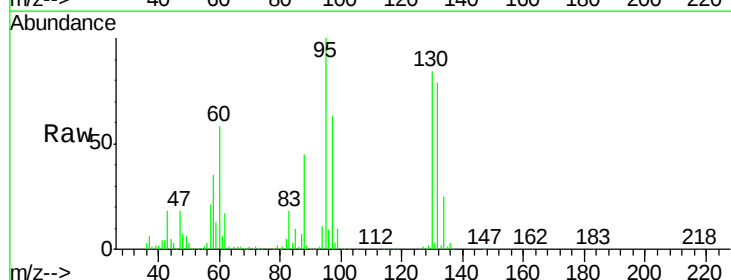
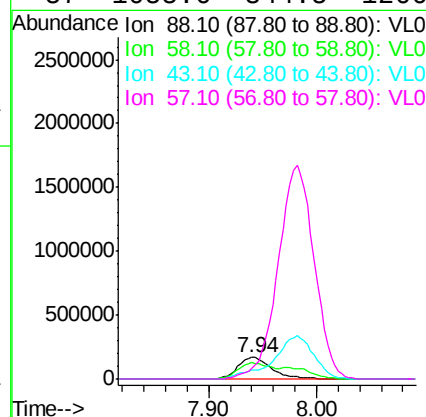
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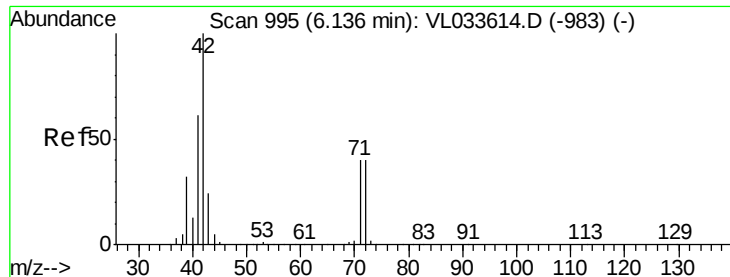
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#40
 1,4-Dioxane
 Concen: 10.274 ppbv
 RT: 7.94 min Scan# 1556
 Delta R.T. 0.00 min
 Lab File: VL033614.D
 Acq: 1 May 2019 11:52

Tgt Ion	Ratio	Lower	Upper
88	100		
58	122.9	98.4	147.6
43	238.1	190.7	286.1
57	1055.6	844.5	1266.7





#41

Tetrahydrofuran

Concen: 10.017 ppbv

RT: 6.14 min Scan# 995

Delta R.T. 0.00 min

Lab File: VL033614.D

Acq: 1 May 2019 11:52

Instrument :

MSVOA_L

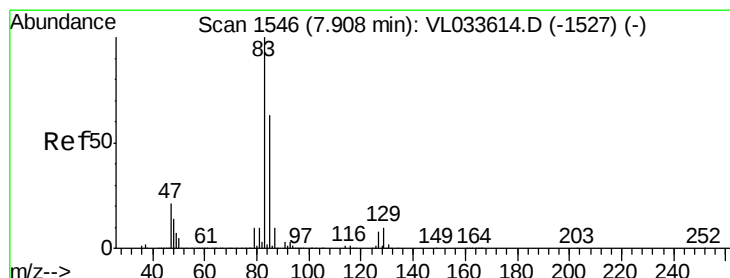
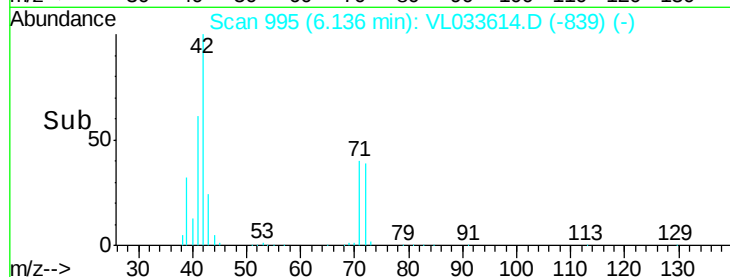
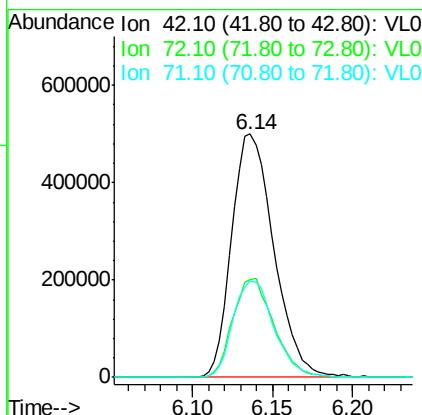
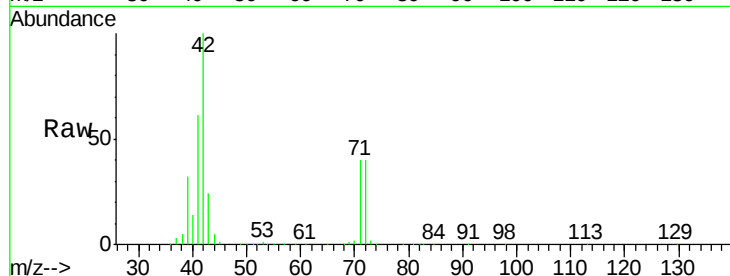
ClientSampleId :

VSTDICCC010

Tot Ion:	42	Resp:	899934
Ion Ratio		Lower	Upper
42	100		
72	39.6	31.8	47.6
71	38.7	31.0	46.4

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#42

Bromodichloromethane

Concen: 9.708 ppbv

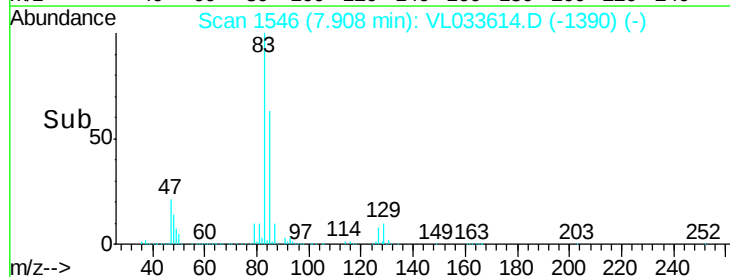
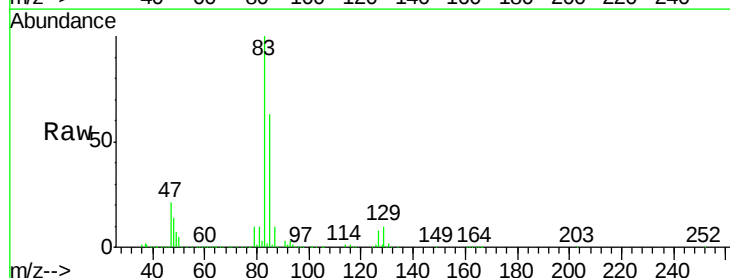
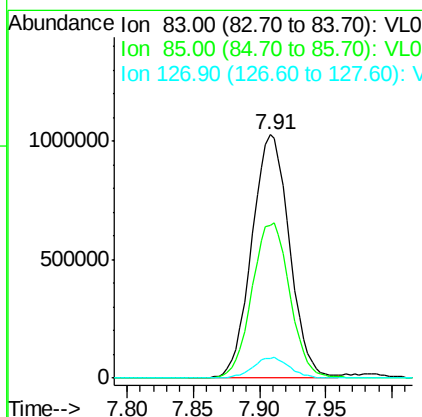
RT: 7.91 min Scan# 1546

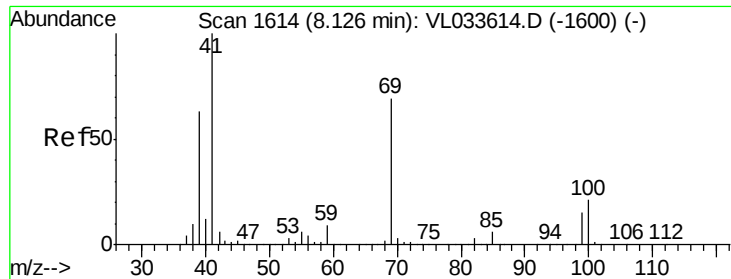
Delta R.T. 0.00 min

Lab File: VL033614.D

Acq: 1 May 2019 11:52

Tgt Ion:	83	Resp:	2038243
Ion Ratio		Lower	Upper
83	100		
85	62.8	50.2	75.4
127	8.1	6.5	9.7





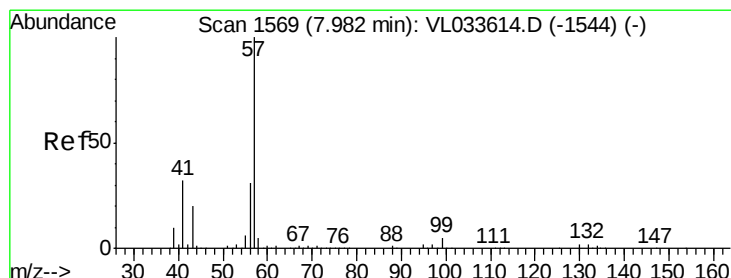
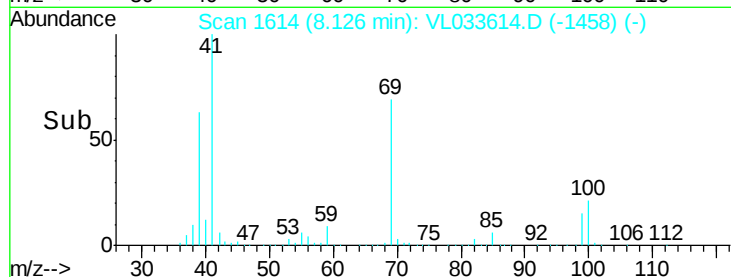
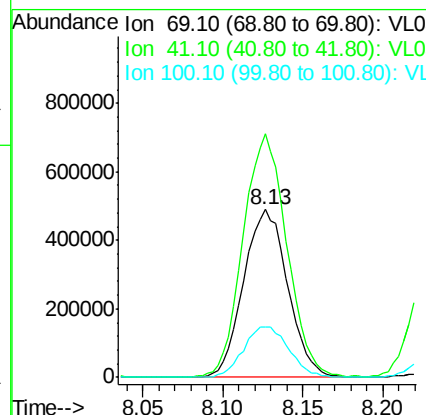
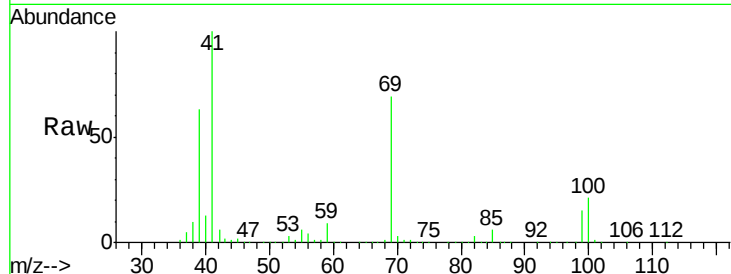
#43
Methvl Methacrylate
Concen: 10.471 ppbv
RT: 8.13 min Scan# 1614
Delta R.T. 0.00 min
Lab File: VL033614.D
Acq: 1 May 2019 11:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	143.7	115.0	172.4	
100	30.9	24.7	37.1	

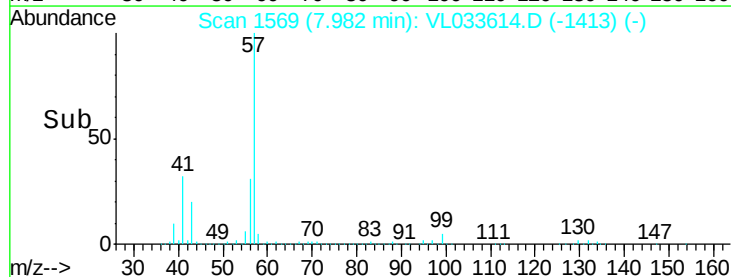
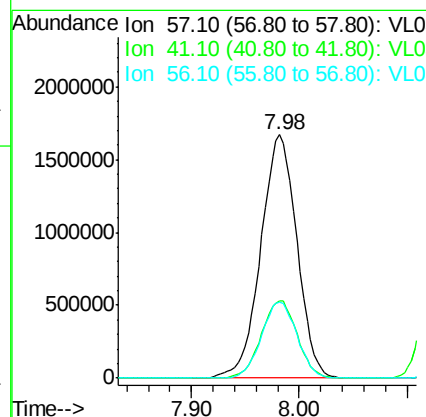
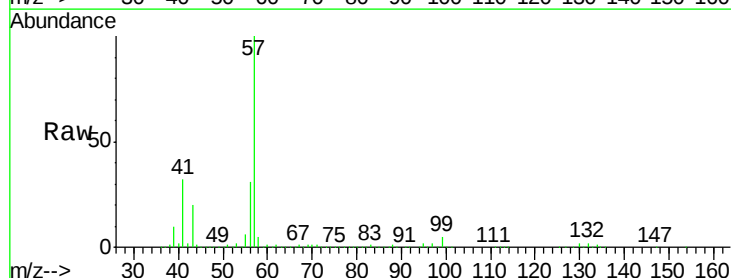
Manual Integrations
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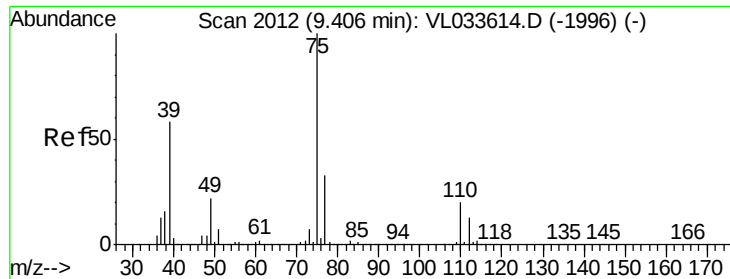
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#44
2,2,4-Trimethylpentane
Concen: 9.519 ppbv
RT: 7.98 min Scan# 1569
Delta R.T. 0.00 min
Lab File: VL033614.D
Acq: 1 May 2019 11:52

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	31.8	25.4	38.2	
56	30.8	24.6	37.0	





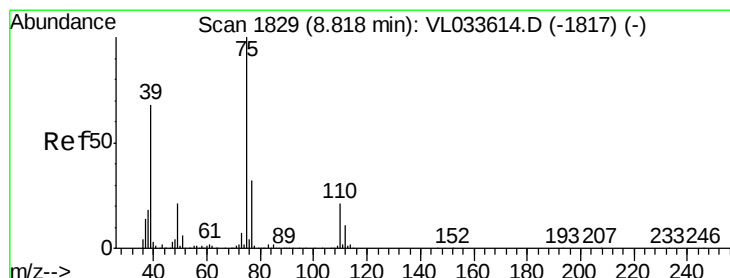
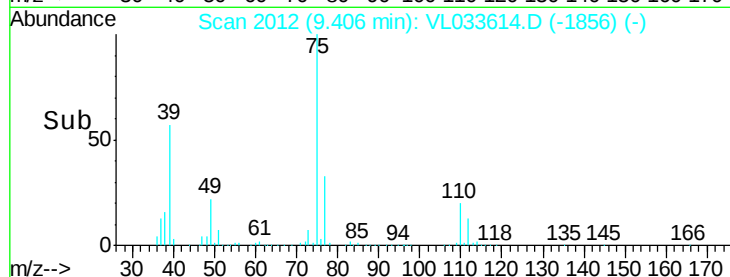
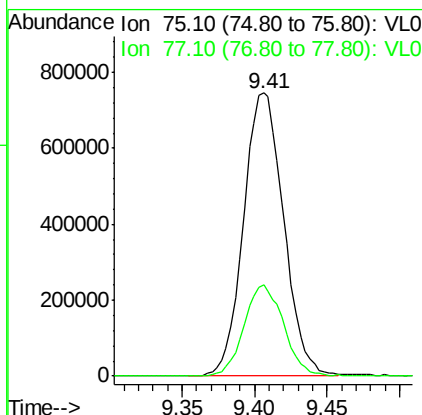
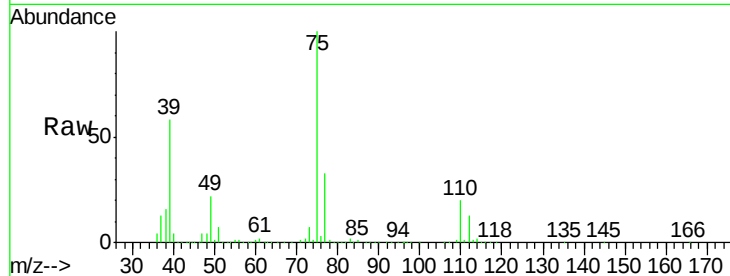
#45
 t-1,3-Dichloropropene
 Concen: 12.234 ppbv
 RT: 9.41 min Scan# 2012
 Delta R.T. 0.00 min
 Lab File: VL033614.D
 Acq: 1 May 2019 11:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 75 Resp: 1436290
 Ion Ratio Lower Upper
 75 100
 77 32.5 26.0 39.0

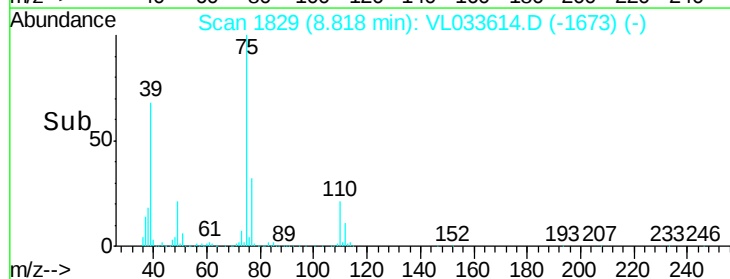
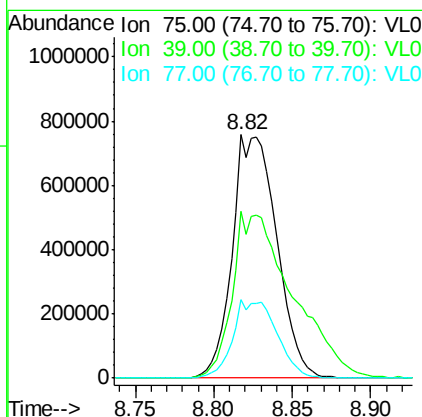
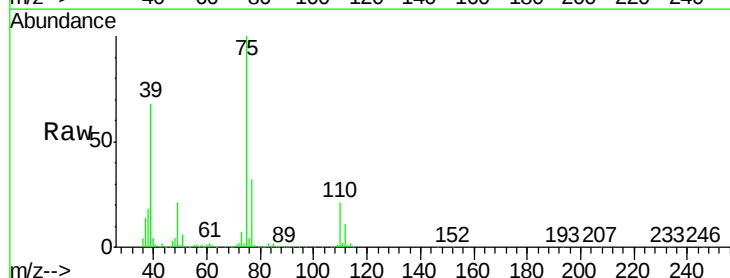
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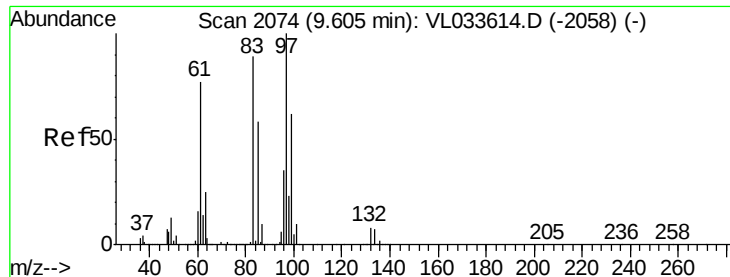
MMDadoda
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#46
 cis-1,3-Dichloropropene
 Concen: 11.243 ppbv m
 RT: 8.82 min Scan# 1829
 Delta R.T. 0.00 min
 Lab File: VL033614.D
 Acq: 1 May 2019 11:52

Tgt Ion: 75 Resp: 1489005
 Ion Ratio Lower Upper
 75 100
 39 68.3 54.6 82.0
 77 32.1 25.7 38.5





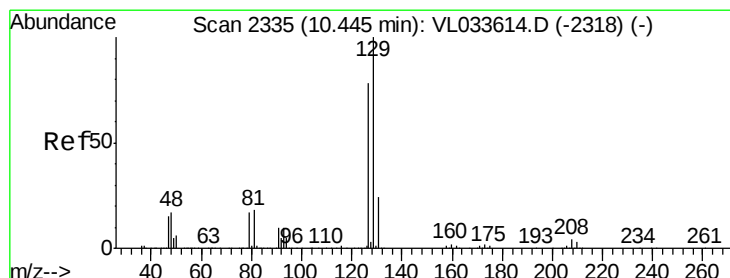
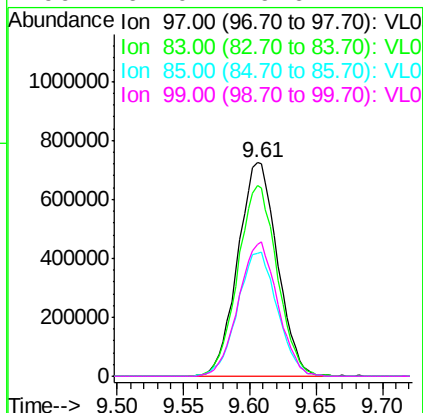
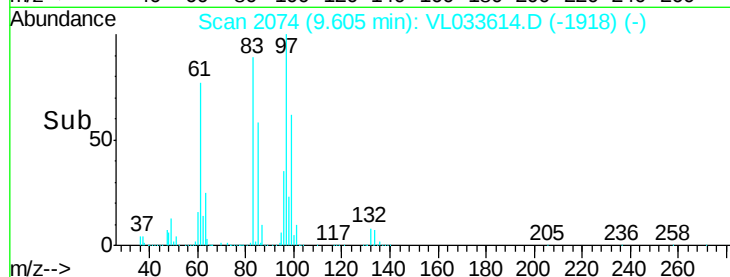
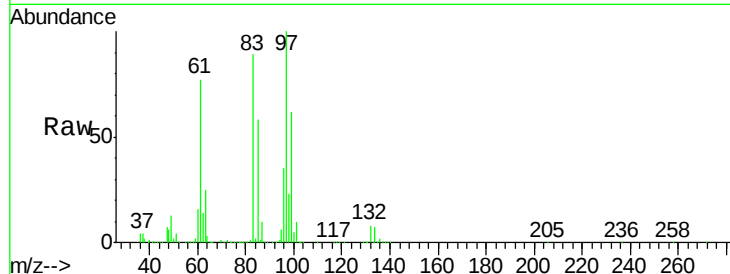
#47
 1,1,2-Trichloroethane
 Concen: 13.070 ppbv
 RT: 9.61 min Scan# 2074
 Delta R.T. 0.00 min
 Lab File: VL033614.D
 Acq: 1 May 2019 11:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
97	100		
83	89.2	71.4	107.0
85	57.5	46.0	69.0
99	62.0	49.6	74.4

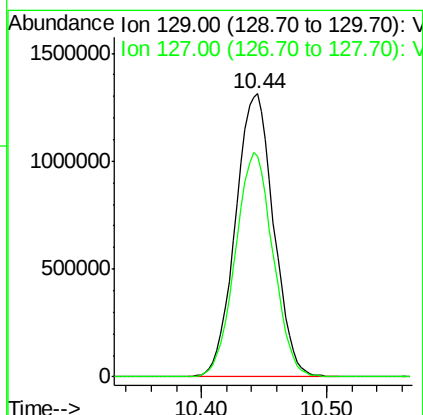
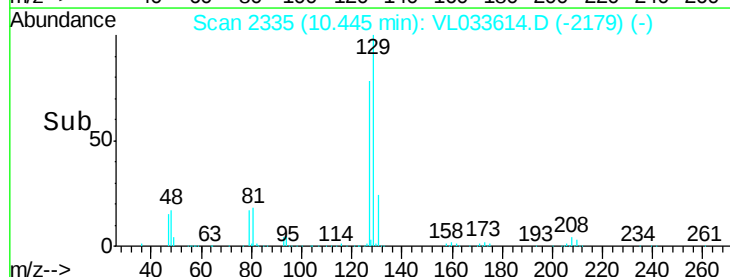
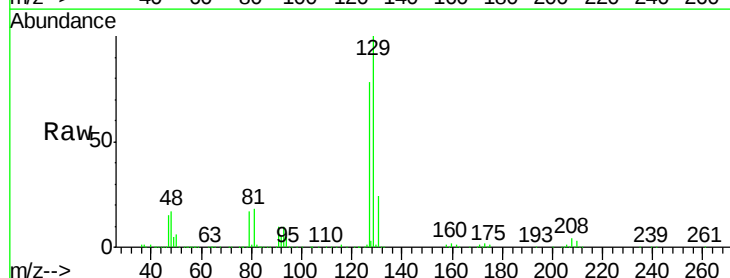
Manual Integrations
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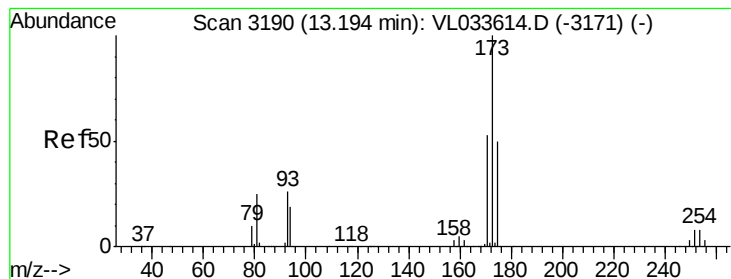
MMDadoda
 5/2/2019 4:03:44 PM



#48
 Dibromochloromethane
 Concen: 14.263 ppbv
 RT: 10.44 min Scan# 2335
 Delta R.T. 0.00 min
 Lab File: VL033614.D
 Acq: 1 May 2019 11:52

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.2	117.6





#49

Bromoform

Concen: 10.486 ppbv

RT: 13.19 min Scan# 3190

Delta R.T. 0.00 min

Lab File: VL033614.D

Acq: 1 May 2019 11:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:173 Resp: 1561379

Ion Ratio Lower Upper

173 100

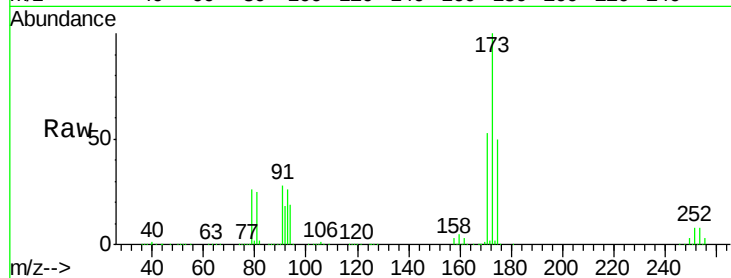
175 48.8 39.0 58.6

171 52.1 41.6 62.4

Manual Integrations
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MMDadoda

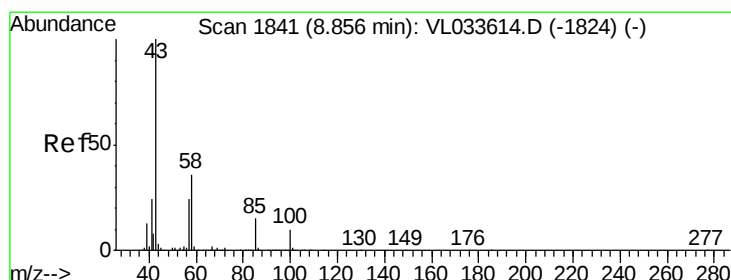
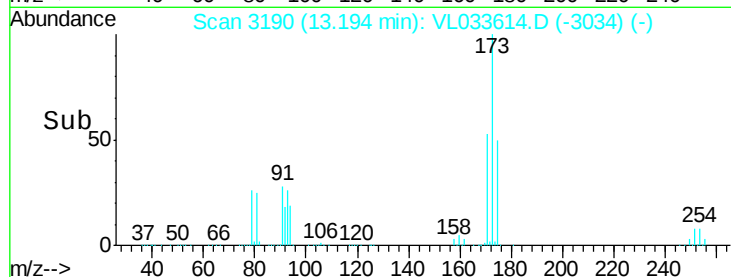
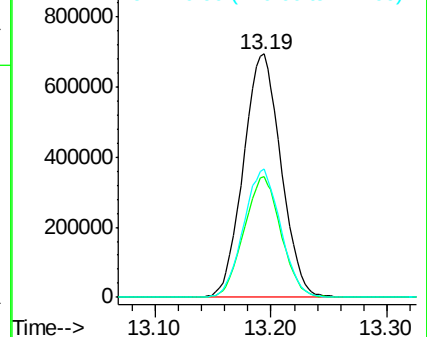
5/2/2019 4:03:44 PM



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: 9.959 ppbv

RT: 8.86 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VL033614.D

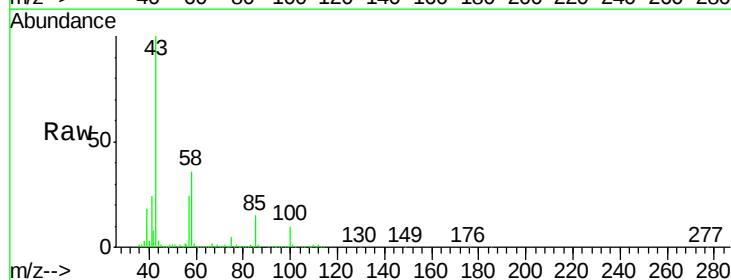
Acq: 1 May 2019 11:52

Tgt Ion: 43 Resp: 2625171

Ion Ratio Lower Upper

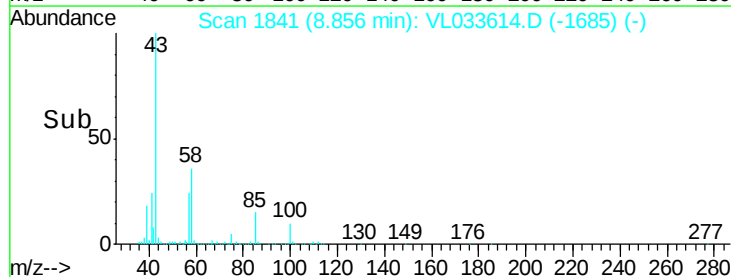
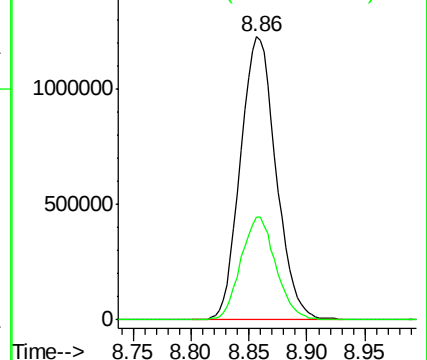
43 100

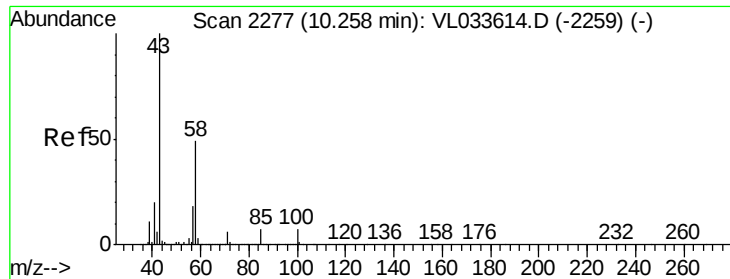
58 35.7 28.6 42.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





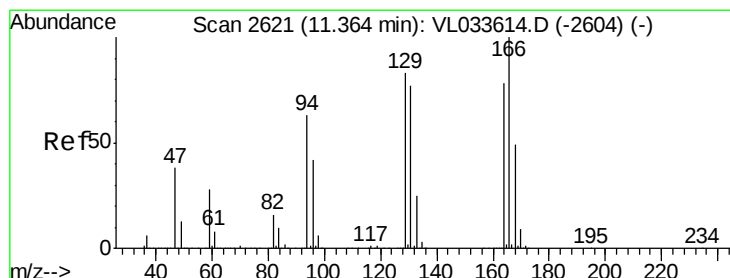
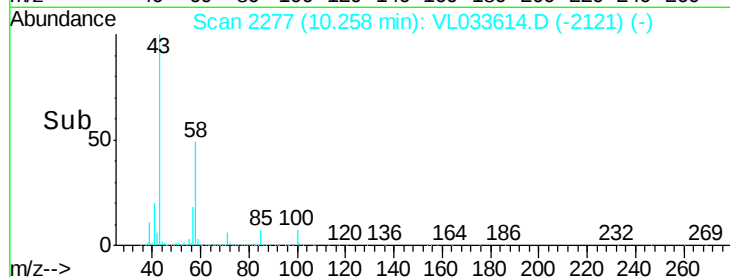
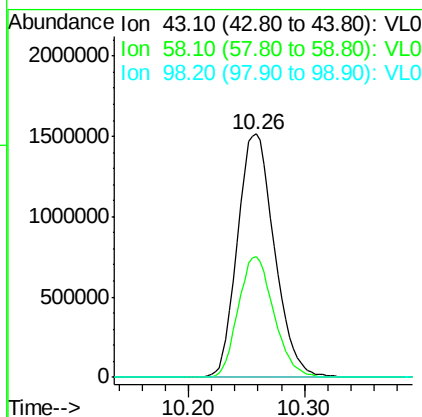
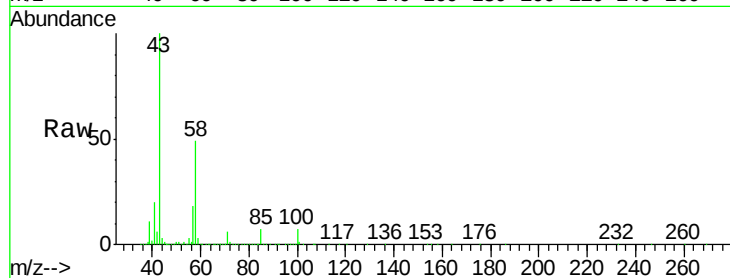
#51
2-Hexanone
Concen: 14.464 ppbv
RT: 10.26 min Scan# 2277
Delta R.T. 0.00 min
Lab File: VL033614.D
Acq: 1 May 2019 11:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 43 Resp: 3347315
Ion Ratio Lower Upper
43 100
58 48.1 38.5 57.7
98 0.4 0.3 0.5

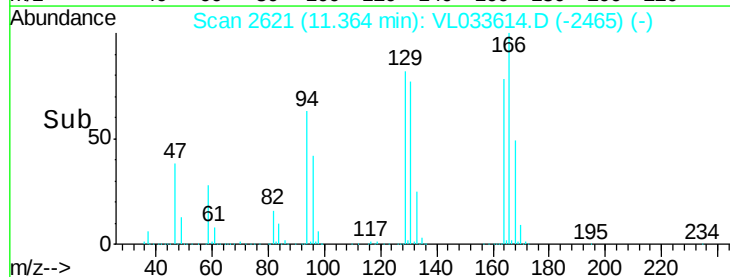
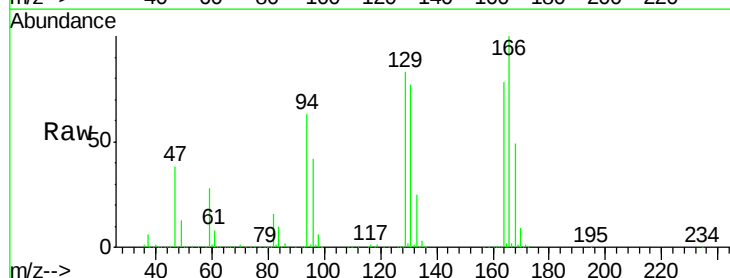
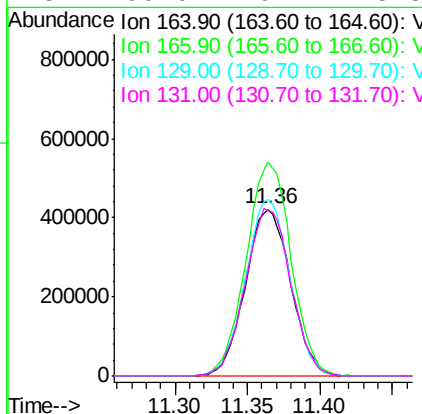
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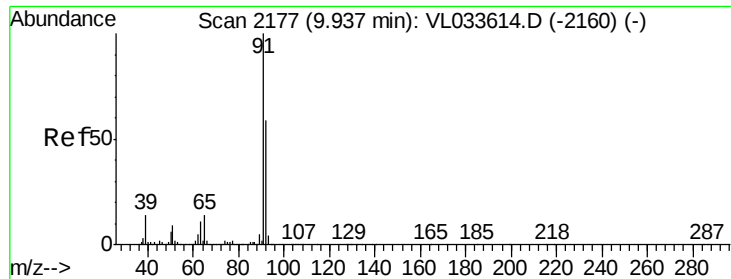
MMDadoda
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#52
Tetrachloroethene
Concen: 10.210 ppbv
RT: 11.36 min Scan# 2621
Delta R.T. 0.00 min
Lab File: VL033614.D
Acq: 1 May 2019 11:52

Tgt Ion: 164 Resp: 916613
Ion Ratio Lower Upper
164 100
166 127.8 102.2 153.4
129 105.5 84.4 126.6
131 99.0 79.2 118.8





#53

Toluene

Concen: 14.277 ppbv

RT: 9.94 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VL033614.D

Acq: 1 May 2019 11:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 4206515

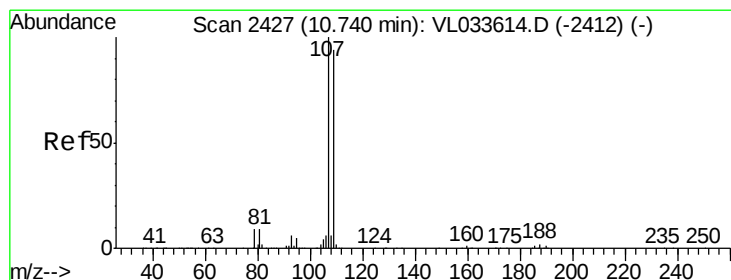
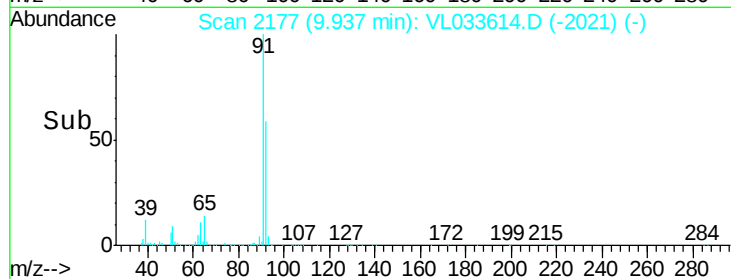
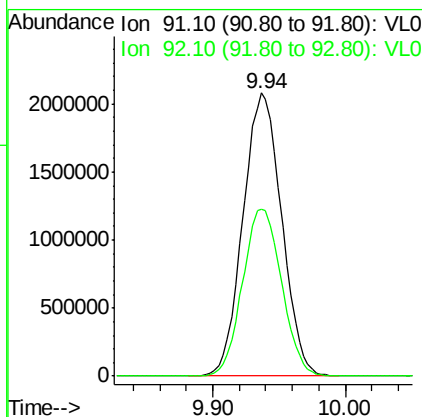
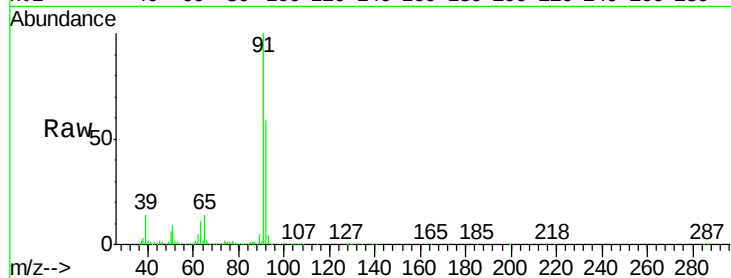
Ion Ratio Lower Upper

91 100

92 59.7 47.8 71.6

Manual Integrations
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#54

1,2-Dibromoethane

Concen: 10.473 ppbv m

RT: 10.74 min Scan# 2427

Delta R.T. 0.00 min

Lab File: VL033614.D

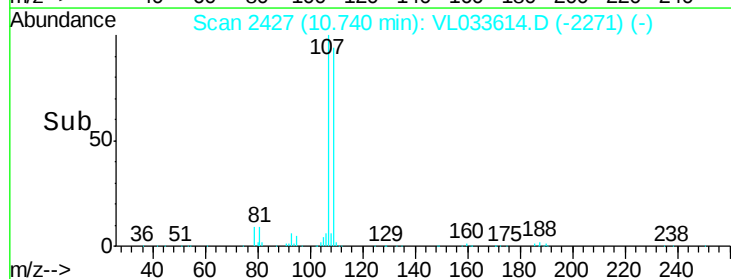
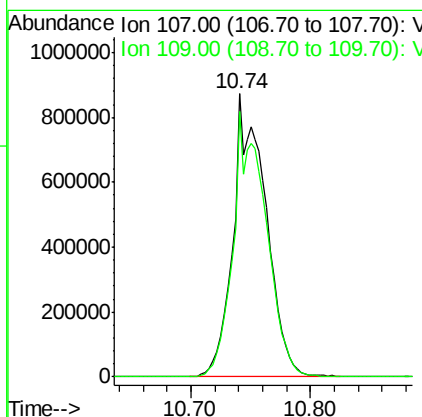
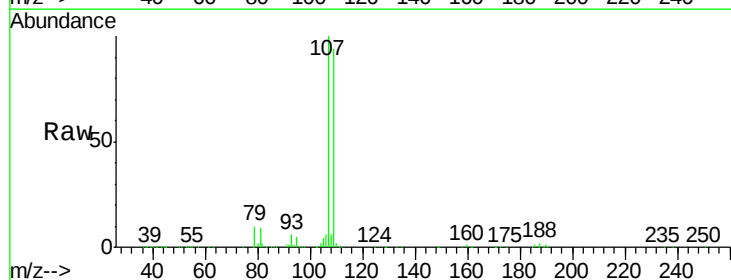
Acq: 1 May 2019 11:52

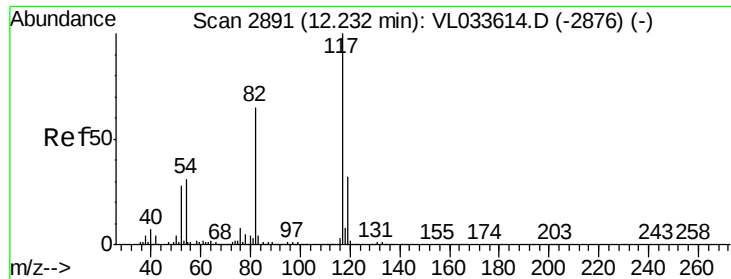
Tgt Ion: 107 Resp: 1653413

Ion Ratio Lower Upper

107 100

109 93.9 75.1 112.7





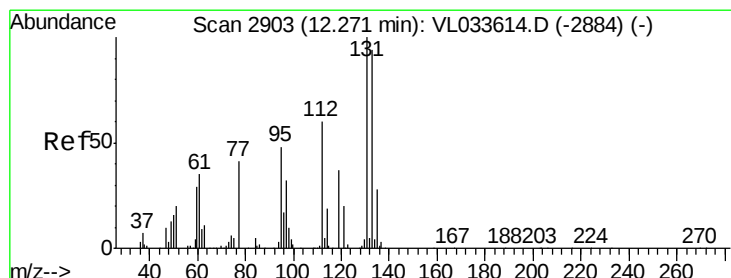
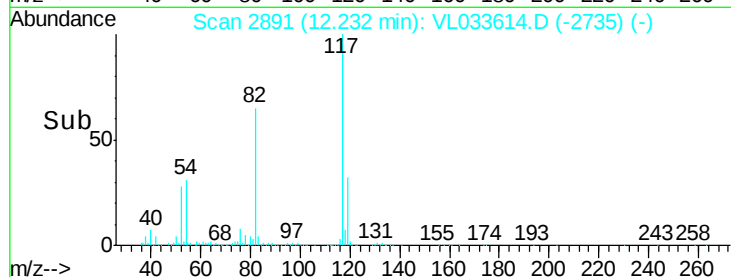
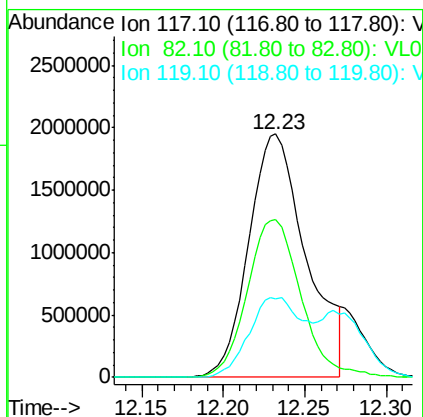
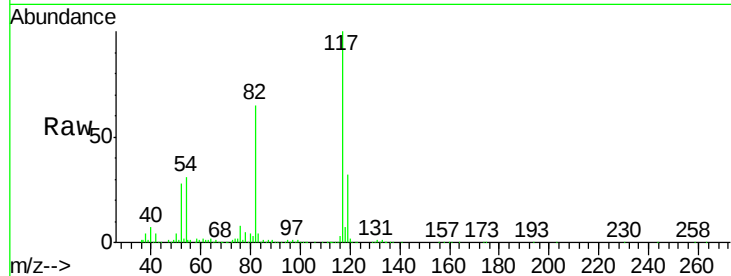
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.23 min Scan# 2891
Delta R.T. 0.00 min
Lab File: VL033614.D
Acq: 1 May 2019 11:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion:117 Resp: 4765714
Ion Ratio Lower Upper
117 100
82 60.9 52.6 78.8
119 31.1 28.3 42.5

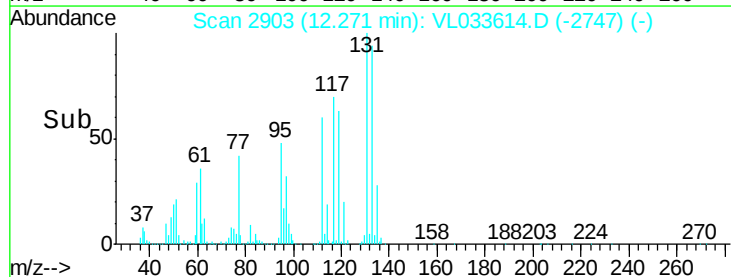
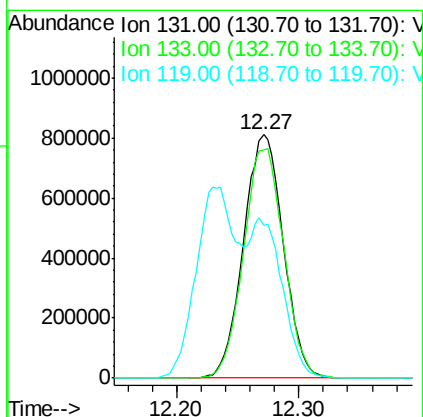
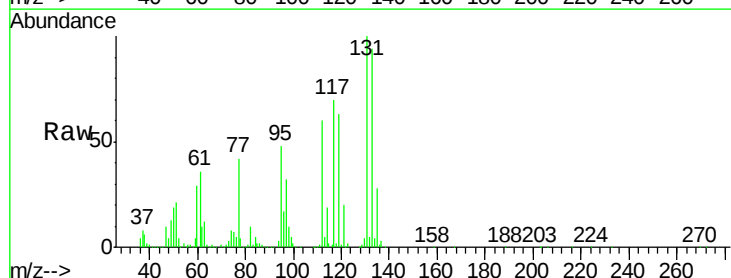
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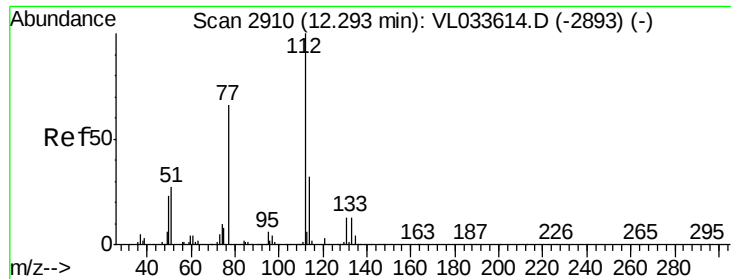
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.775 ppbv
RT: 12.27 min Scan# 2903
Delta R.T. 0.00 min
Lab File: VL033614.D
Acq: 1 May 2019 11:52

Tgt Ion:131 Resp: 1826186
Ion Ratio Lower Upper
131 100
133 95.6 76.4 114.6
119 137.0 40.9 61.3#





#57

Chlorobenzene

Concen: 8.518 ppbv

RT: 12.29 min Scan# 2910

Delta R.T. 0.00 min

Lab File: VL033614.D

Acq: 1 May 2019 11:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 112 Resp: 3157065

Ion Ratio Lower Upper

112 100

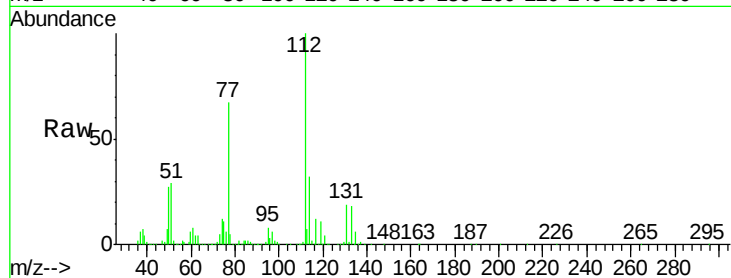
77 67.0 53.6 80.4

114 32.3 29.1 35.5

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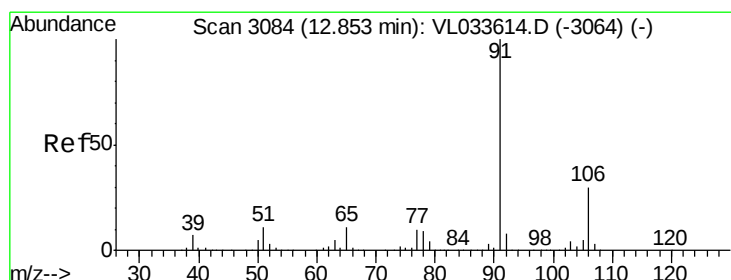
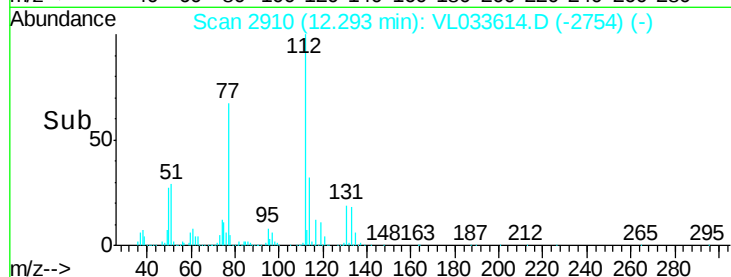
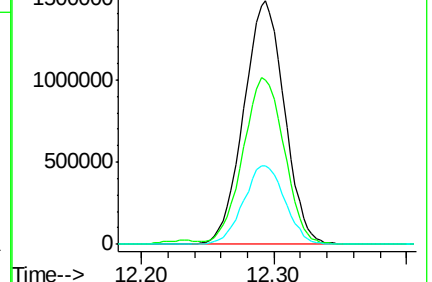
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 6.816 ppbv

RT: 12.85 min Scan# 3084

Delta R.T. 0.00 min

Lab File: VL033614.D

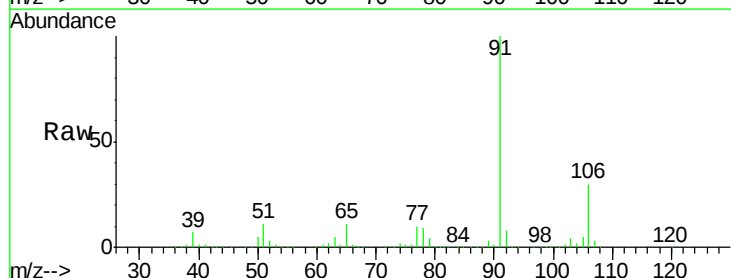
Acq: 1 May 2019 11:52

Tgt Ion: 91 Resp: 3780231

Ion Ratio Lower Upper

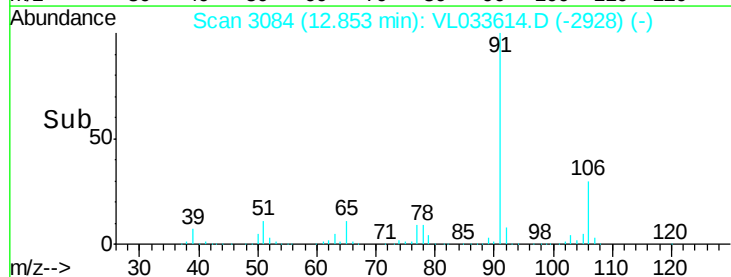
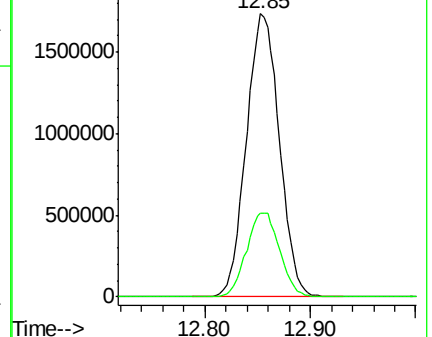
91 100

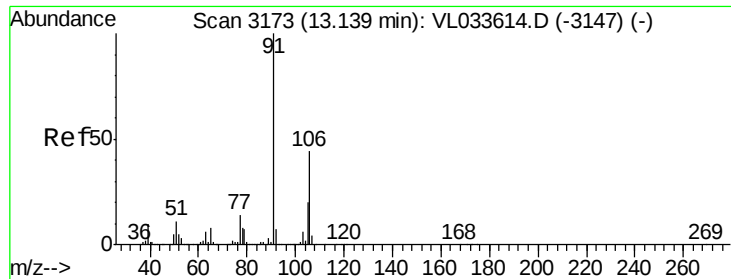
106 29.5 23.6 35.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





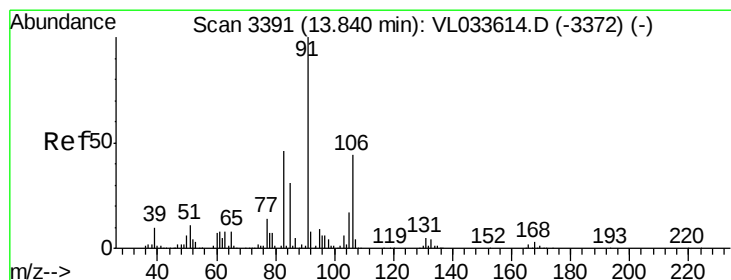
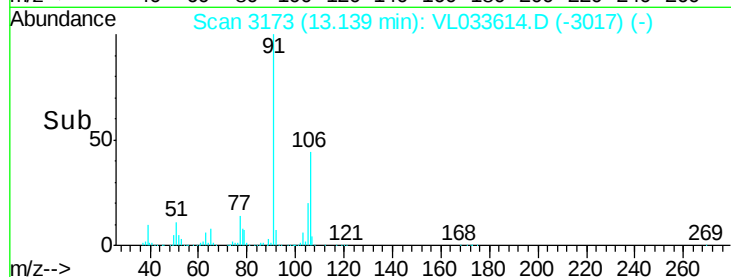
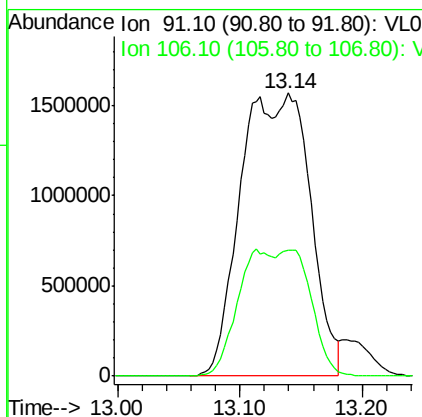
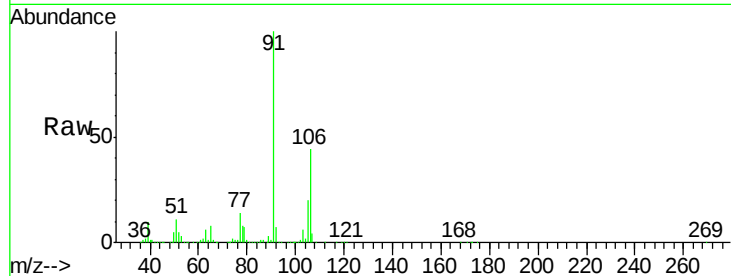
#59
m/p-Xylene
Concen: 12.918 ppbv m
RT: 13.14 min Scan# 3173
Delta R.T. 0.00 min
Lab File: VL033614.D
Acq: 1 May 2019 11:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 91 Resp: 6193308
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

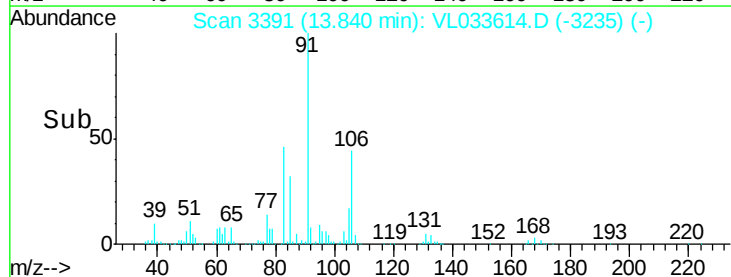
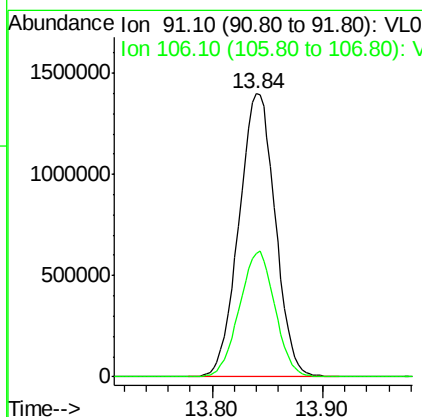
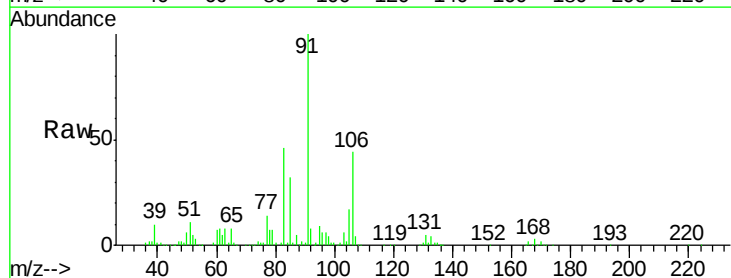
Manual Integrations
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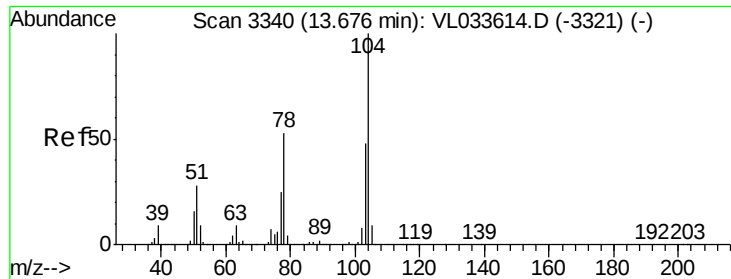
MMDadoda
5/2/2019 4:03:44 PM



#60
o-Xylene
Concen: 6.602 ppbv
RT: 13.84 min Scan# 3391
Delta R.T. 0.00 min
Lab File: VL033614.D
Acq: 1 May 2019 11:52

Tgt Ion: 91 Resp: 3181185
Ion Ratio Lower Upper
91 100
106 43.5 21.8 65.4





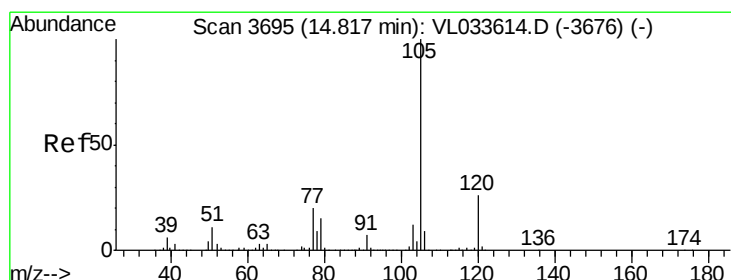
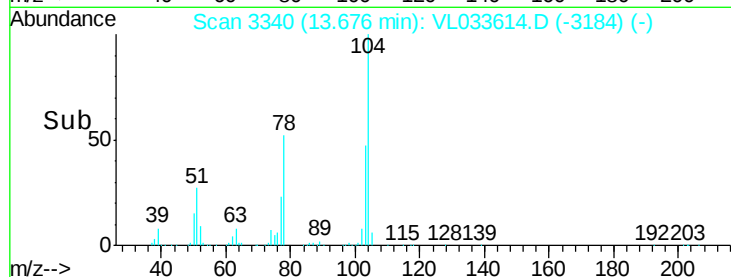
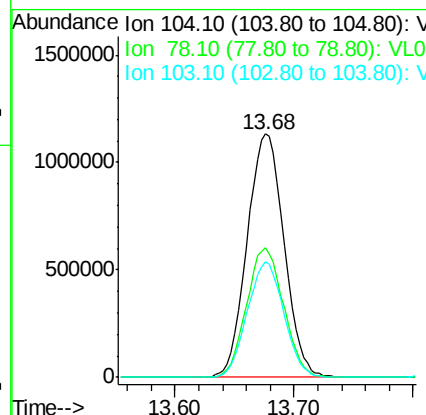
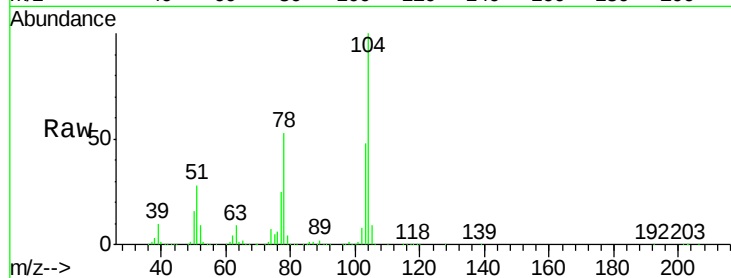
#61
Stvrene
Concen: 7.382 ppbv
RT: 13.68 min Scan# 3340
Delta R.T. 0.00 min
Lab File: VL033614.D
Acq: 1 May 2019 11:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.4	42.7	64.1
103	47.0	37.8	56.6

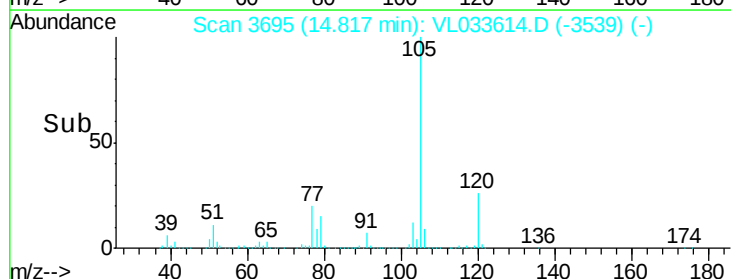
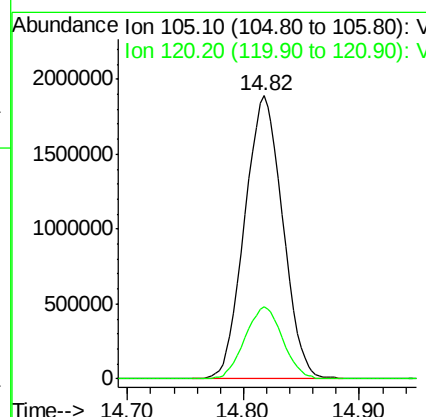
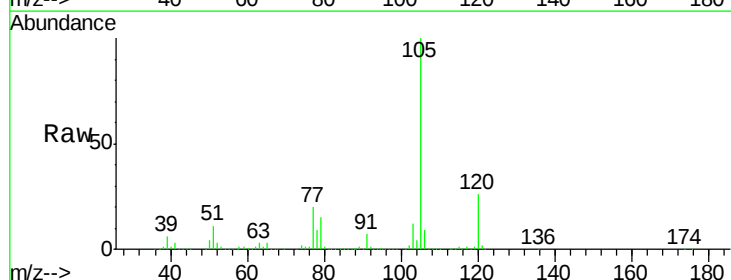
Manual Integrations
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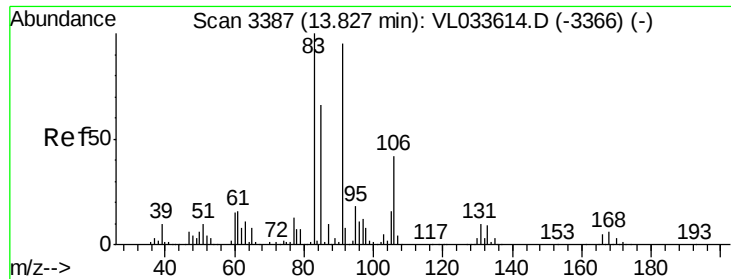
MMDadoda
5/2/2019 4:03:44 PM



#62
Isopropylbenzene
Concen: 6.693 ppbv
RT: 14.82 min Scan# 3695
Delta R.T. 0.00 min
Lab File: VL033614.D
Acq: 1 May 2019 11:52

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.4	20.3	30.5





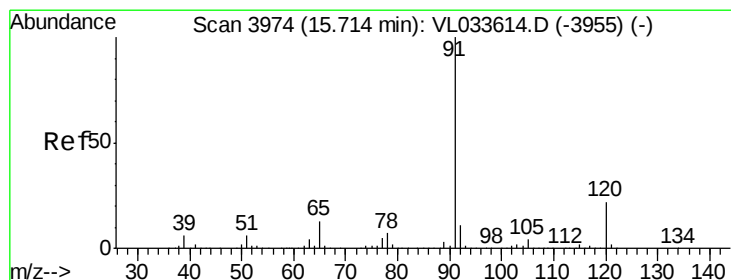
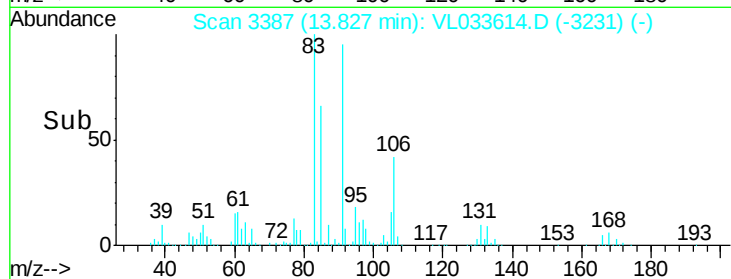
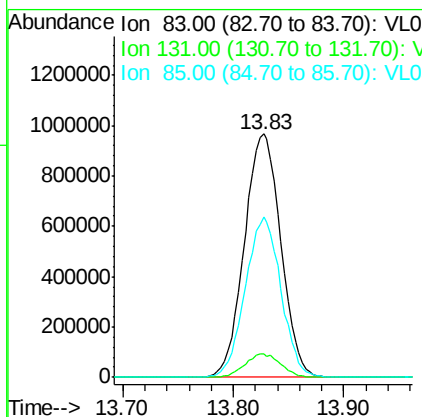
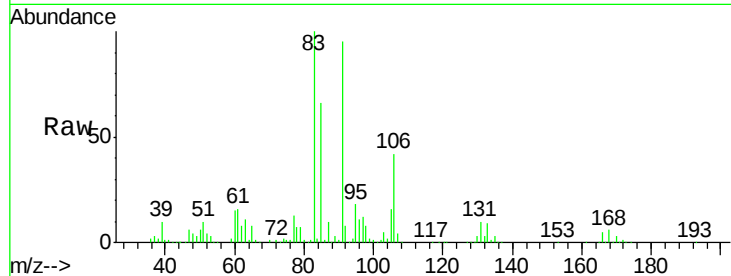
#63
 1,1,2,2-Tetrachloroethane
 Concen: 5.868 ppbv
 RT: 13.83 min Scan# 3387
 Delta R.T. 0.00 min
 Lab File: VL033614.D
 Acq: 1 May 2019 11:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 83 Resp: 2214496
 Ion Ratio Lower Upper
 83 100
 131 9.6 4.8 14.4
 85 64.5 32.3 96.8

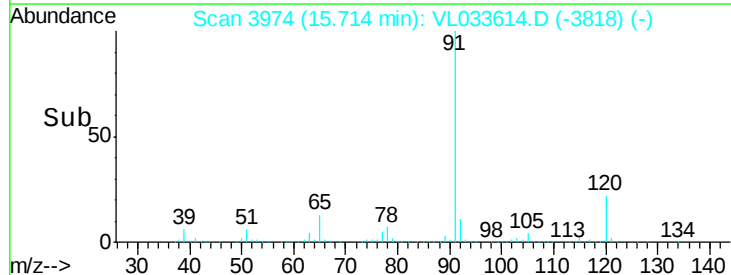
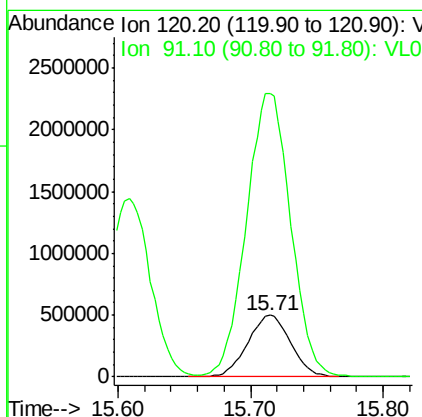
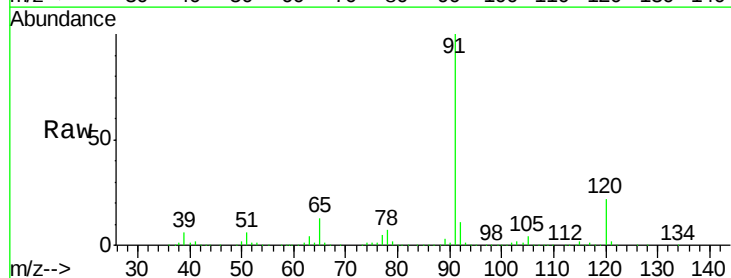
Manual Integrations
 APPROVED

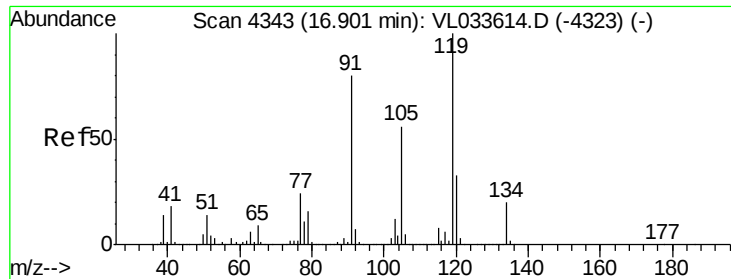
MMDadoda
 5/2/2019 4:03:44 PM



#64
 n-propylbenzene
 Concen: 6.716 ppbv
 RT: 15.71 min Scan# 3974
 Delta R.T. 0.00 min
 Lab File: VL033614.D
 Acq: 1 May 2019 11:52

Tgt Ion: 120 Resp: 1121897
 Ion Ratio Lower Upper
 120 100
 91 475.5 380.2 570.2





#65

tert-Butylbenzene

Concen: 6.543 ppbv

RT: 16.90 min Scan# 4343

Delta R.T. 0.00 min

Lab File: VL033614.D

Acq: 1 May 2019 11:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:119 Resp: 3940553

Ion Ratio Lower Upper

119 100

91 82.6 66.1 99.1

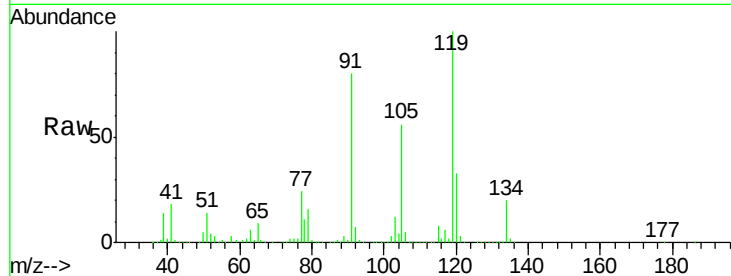
134 19.5 15.6 23.4

Manual Integrations

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MMDadoda

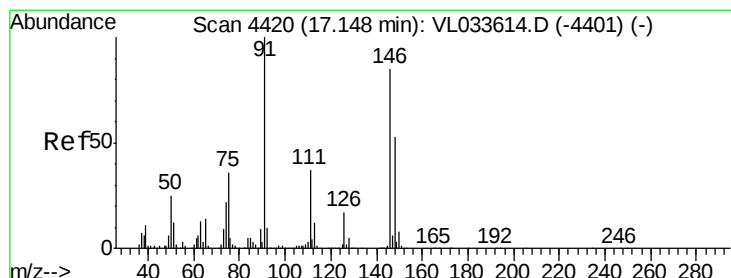
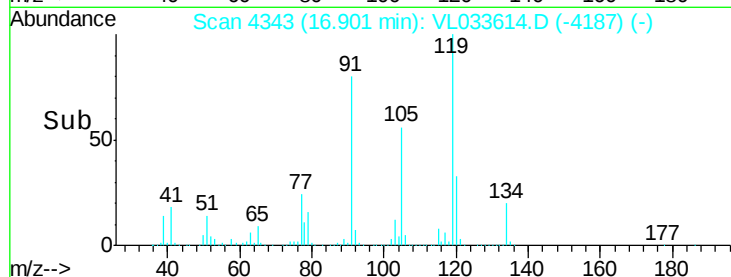
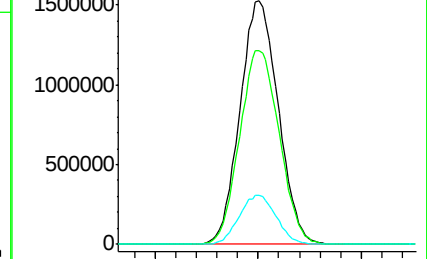
5/2/2019 4:03:44 PM



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: 7.843 ppbv

RT: 17.15 min Scan# 4420

Delta R.T. 0.00 min

Lab File: VL033614.D

Acq: 1 May 2019 11:52

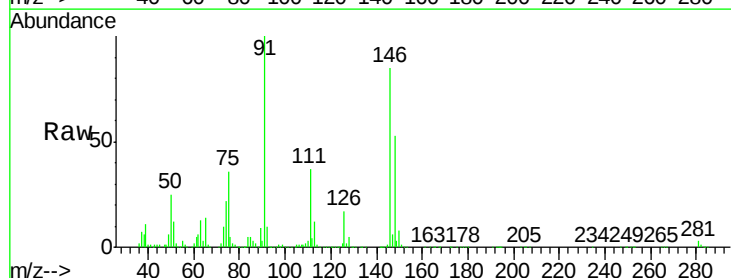
Tgt Ion: 91 Resp: 2145895

Ion Ratio Lower Upper

91 100

126 16.8 13.4 20.2

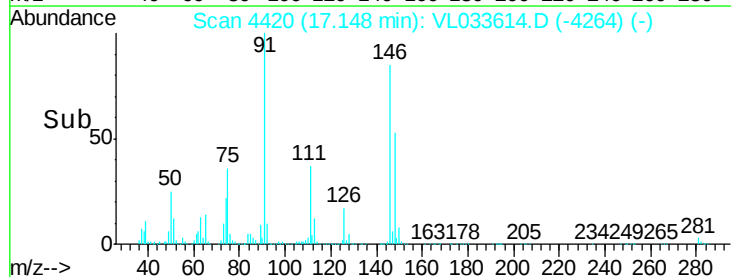
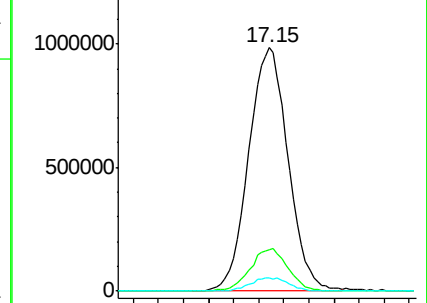
128 5.4 4.3 6.5

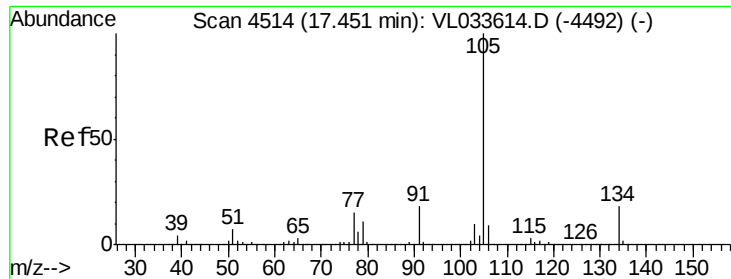


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





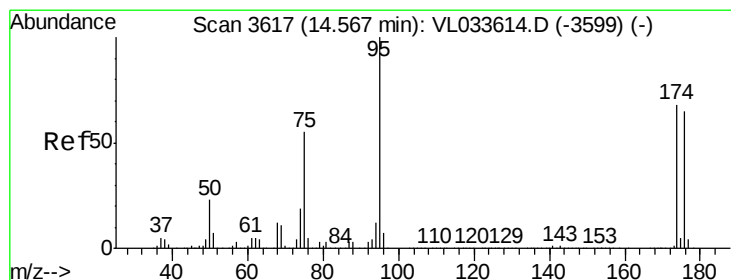
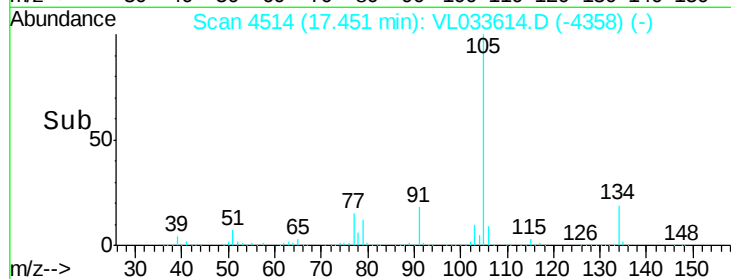
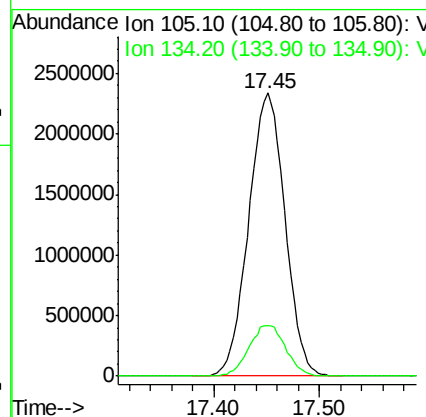
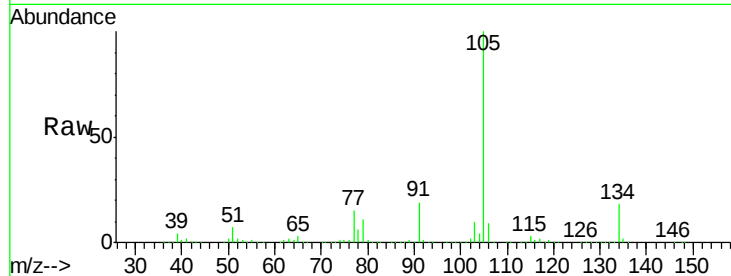
#67
 sec-Butylbenzene
 Concen: 6.630 ppbv
 RT: 17.45 min Scan# 4514
 Delta R.T. 0.00 min
 Lab File: VL033614.D
 Acq: 1 May 2019 11:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 105 Resp: 5607742
 Ion Ratio Lower Upper
 105 100
 134 18.2 14.6 21.8

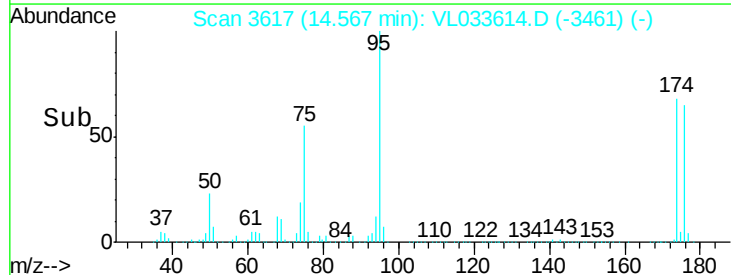
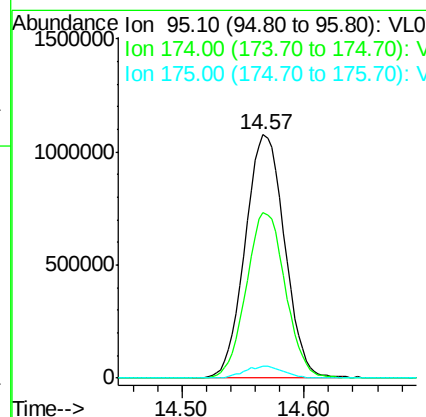
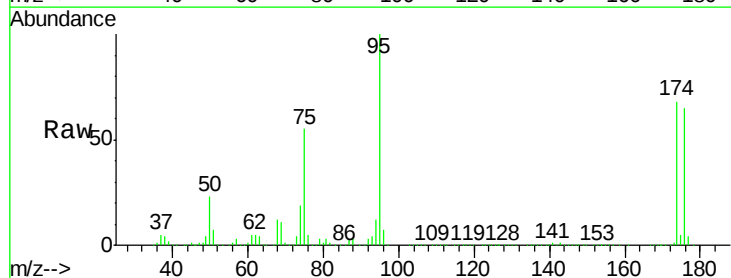
Manual Integrations
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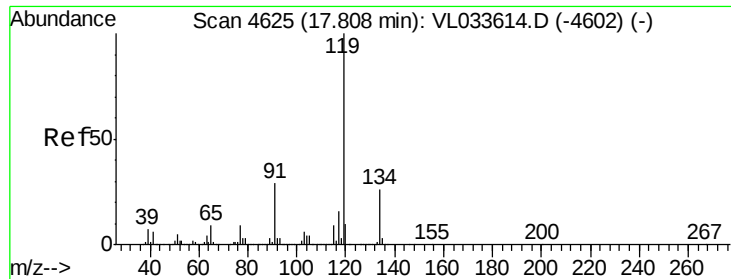
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 6.585 ppbv
 RT: 14.57 min Scan# 3617
 Delta R.T. 0.00 min
 Lab File: VL033614.D
 Acq: 1 May 2019 11:52

Tgt Ion: 95 Resp: 2406567
 Ion Ratio Lower Upper
 95 100
 174 67.4 53.9 80.9
 175 5.0 4.0 6.0





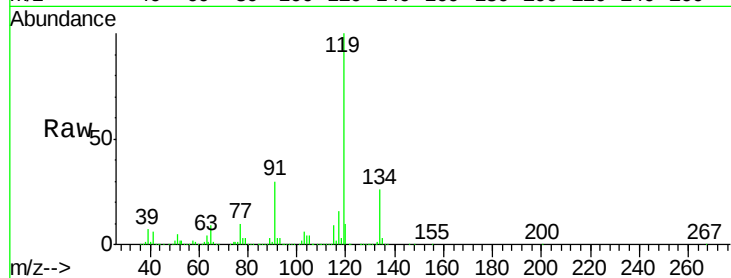
#69
 p-Isopropyltoluene
 Concen: 6.792 ppbv
 RT: 17.81 min Scan# 4625
 Delta R.T. 0.00 min
 Lab File: VL033614.D
 Acq: 1 May 2019 11:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

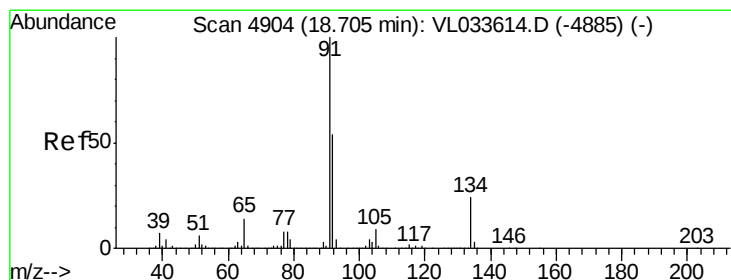
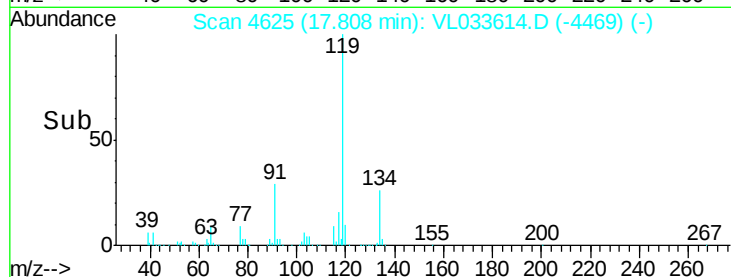
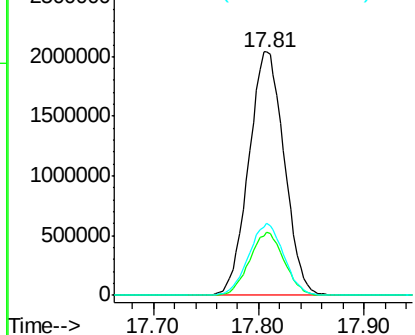
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.2	30.2
91	29.1	23.3	34.9

Manual Integrations
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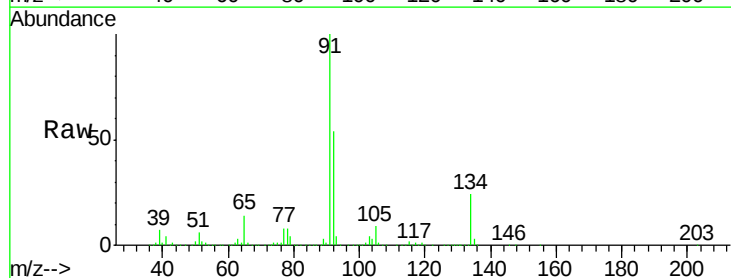


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

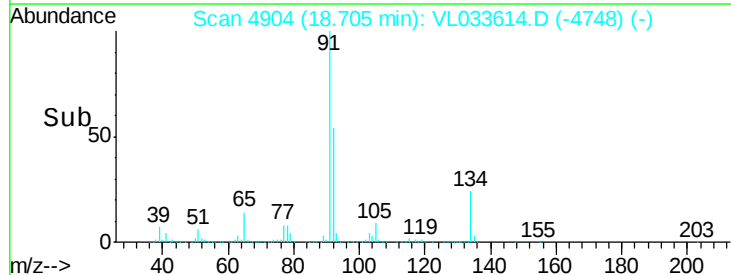
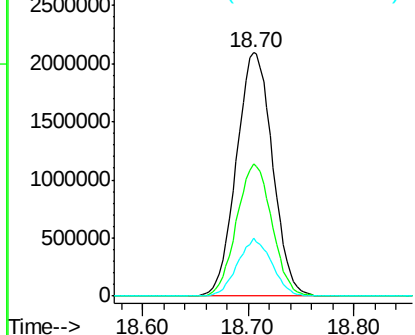


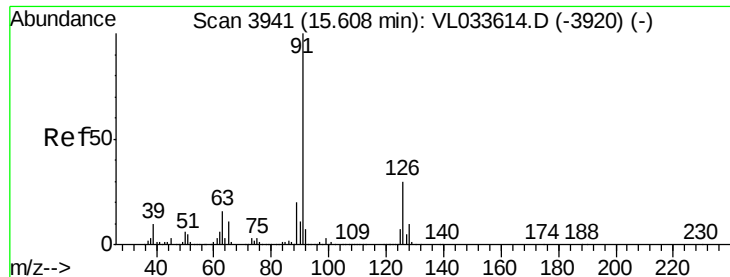
#70
 n-Butylbenzene
 Concen: 6.494 ppbv
 RT: 18.70 min Scan# 4904
 Delta R.T. 0.00 min
 Lab File: VL033614.D
 Acq: 1 May 2019 11:52

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.3	42.6	64.0
134	22.5	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: 6.781 ppbv

RT: 15.61 min Scan# 3941

Delta R.T. 0.00 min

Lab File: VL033614.D

Acq: 1 May 2019 11:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 3266680

Ion Ratio Lower Upper

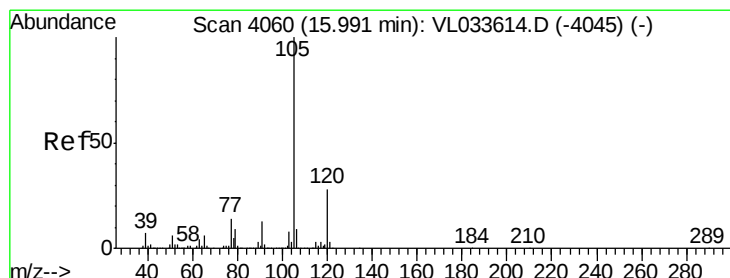
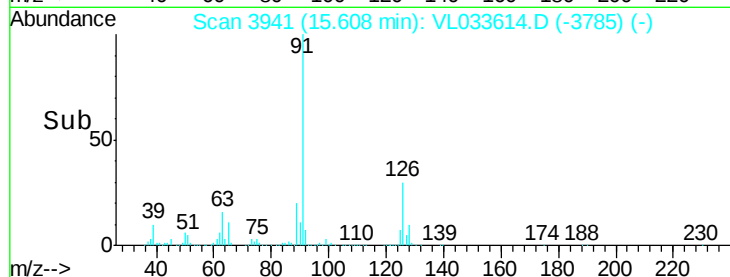
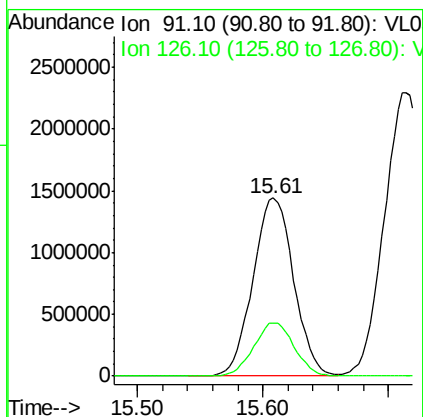
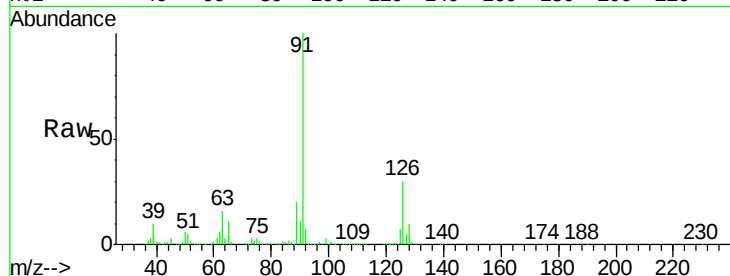
91 100

126 29.8 11.9 47.7

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#72

4-Ethyltoluene

Concen: 6.907 ppbv

RT: 15.99 min Scan# 4060

Delta R.T. 0.00 min

Lab File: VL033614.D

Acq: 1 May 2019 11:52

Tgt Ion:105 Resp: 3792762

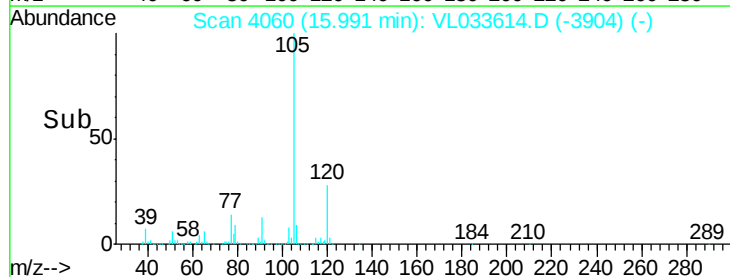
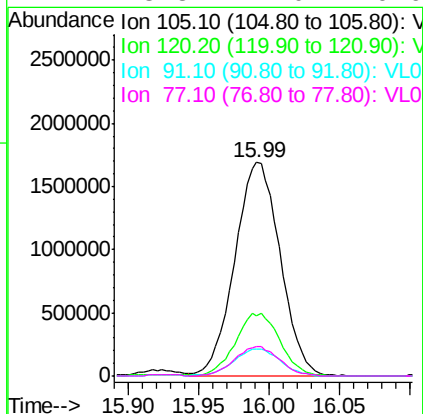
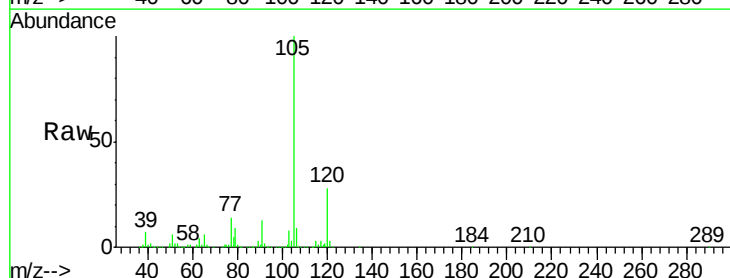
Ion Ratio Lower Upper

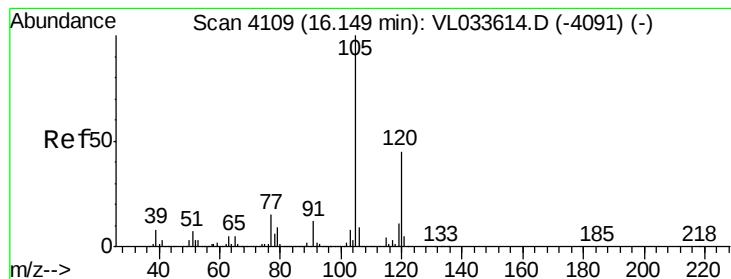
105 100

120 29.0 23.2 34.8

91 12.9 10.3 15.5

77 13.8 11.0 16.6





#73

1,3,5-Trimethylbenzene

Concen: 6.713 ppbv

RT: 16.15 min Scan# 4109

Delta R.T. 0.00 min

Lab File: VL033614.D

Acq: 1 May 2019 11:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:105 Resp: 3623870

Ion Ratio Lower Upper

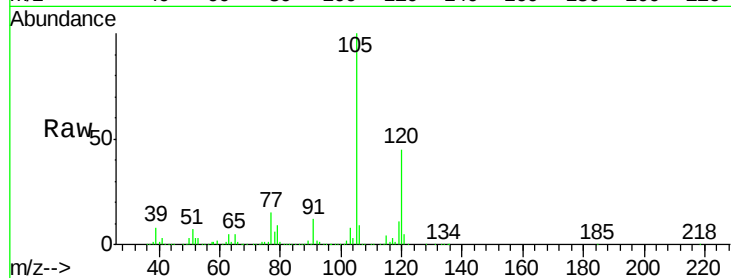
105 100

120 45.2 36.2 54.2

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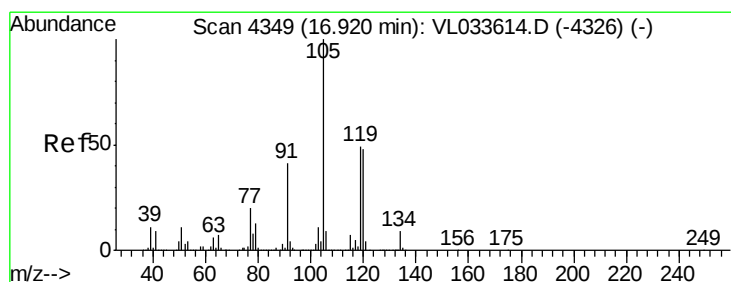
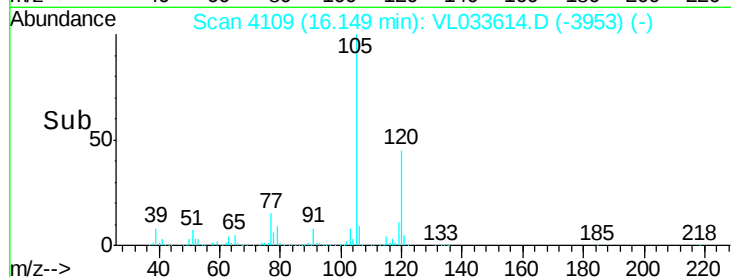
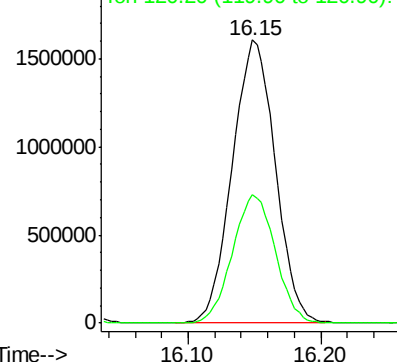
MMDadoda

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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: 6.344 ppbv

RT: 16.92 min Scan# 4349

Delta R.T. 0.00 min

Lab File: VL033614.D

Acq: 1 May 2019 11:52

Tgt Ion:105 Resp: 3816203

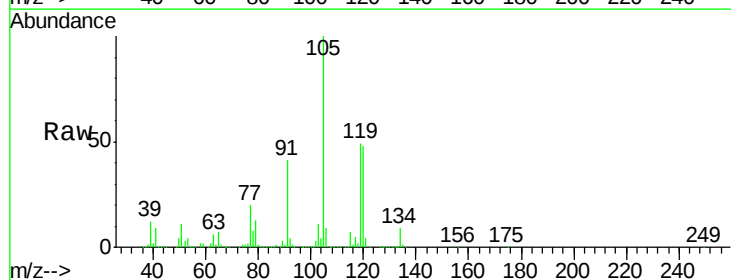
Ion Ratio Lower Upper

105 100

120 48.0 38.4 57.6

91 41.2 33.0 49.4

77 20.2 16.2 24.2

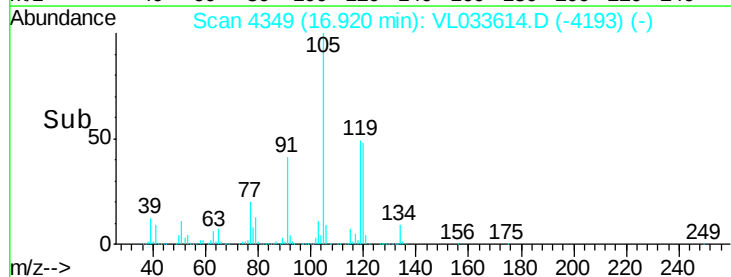
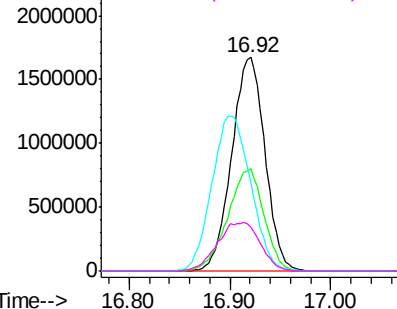


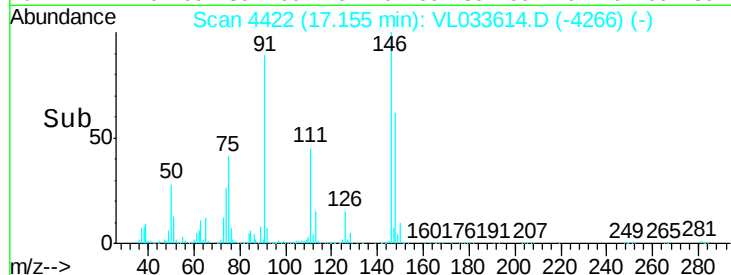
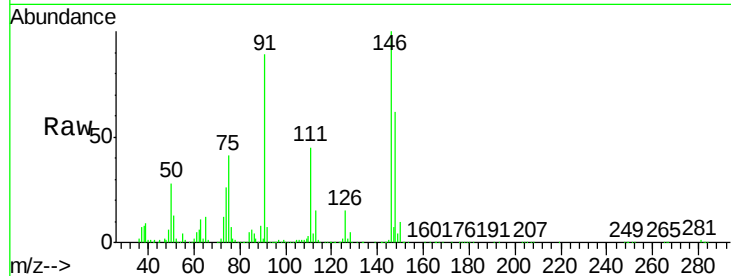
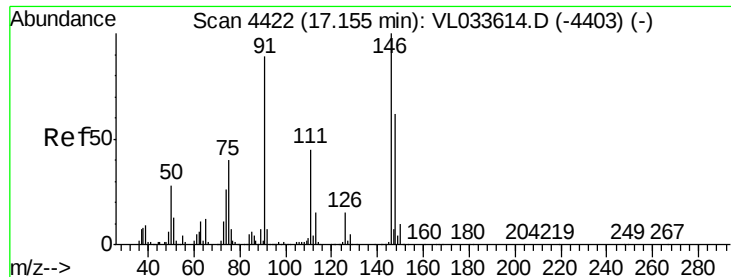
Abundance Ion 105.10 (104.80 to 105.80): V

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





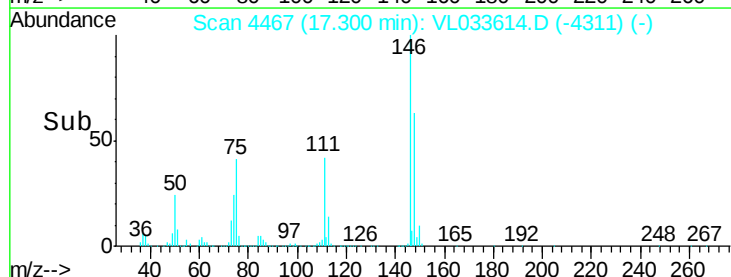
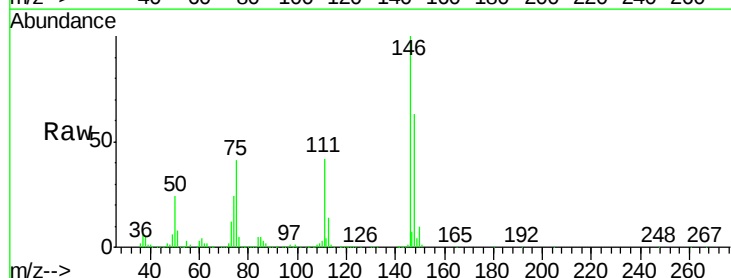
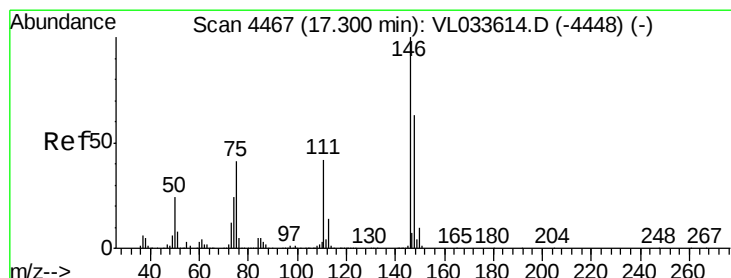
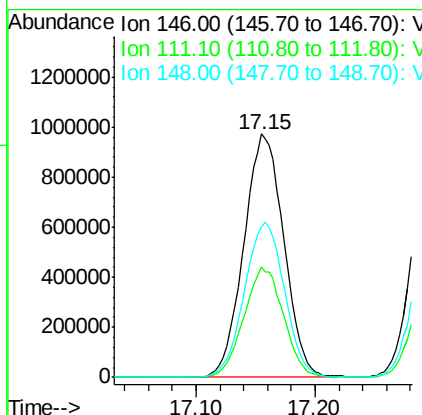
#75
1,3-Dichlorobenzene
Concen: 6.039 ppbv
RT: 17.15 min Scan# 4422
Delta R.T. 0.00 min
Lab File: VL033614.D
Acq: 1 May 2019 11:52

Tot Ion:146 Resp: 2261140
Ion Ratio Lower Upper
146 100
111 44.8 22.4 67.2
148 64.0 32.0 96.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

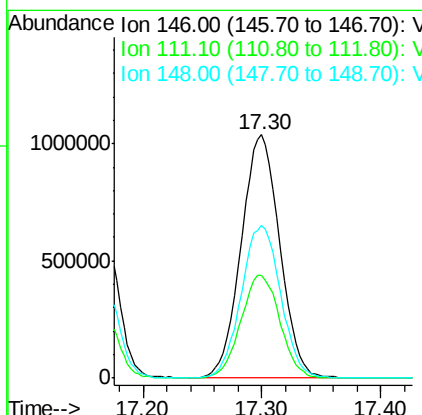
Manual Integrations
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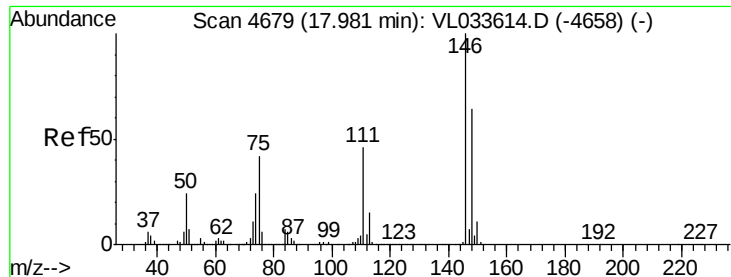
MMDadoda
5/2/2019 4:03:44 PM



#76
1,4-Dichlorobenzene
Concen: 6.485 ppbv
RT: 17.30 min Scan# 4467
Delta R.T. 0.00 min
Lab File: VL033614.D
Acq: 1 May 2019 11:52

Tgt Ion:146 Resp: 2316590
Ion Ratio Lower Upper
146 100
111 43.3 21.6 65.0
148 64.6 32.3 96.9





#77

1,2-Dichlorobenzene

Concen: 6.264 ppbv

RT: 17.98 min Scan# 4679

Delta R.T. 0.00 min

Lab File: VL033614.D

Acq: 1 May 2019 11:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:146 Resp: 2186012

Ion Ratio Lower Upper

146 100

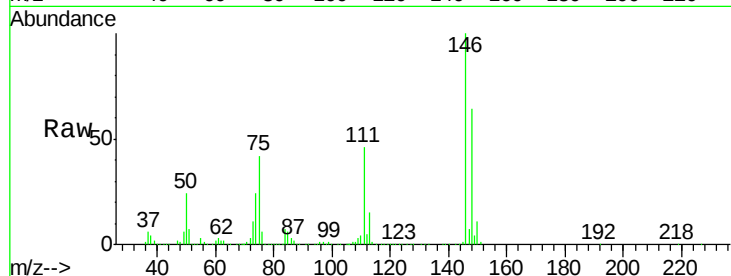
111 46.6 23.3 69.9

148 64.4 32.2 96.6

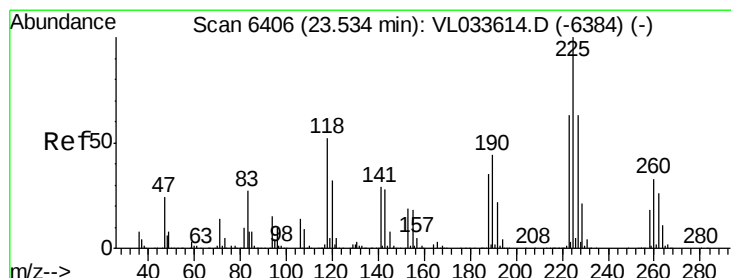
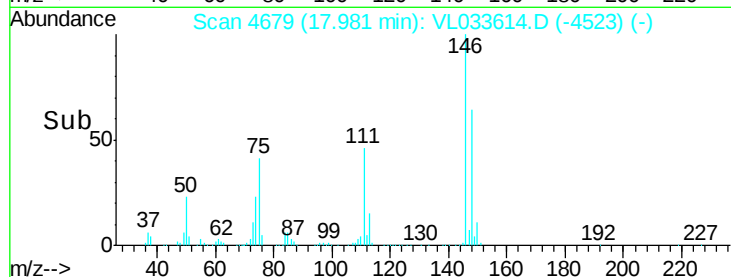
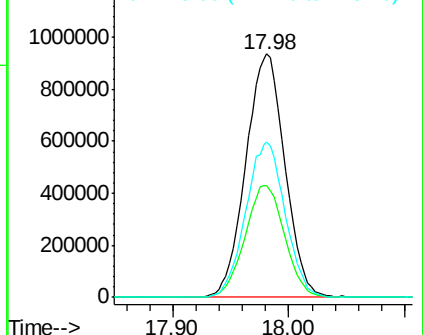
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 5.256 ppbv

RT: 23.53 min Scan# 6406

Delta R.T. 0.00 min

Lab File: VL033614.D

Acq: 1 May 2019 11:52

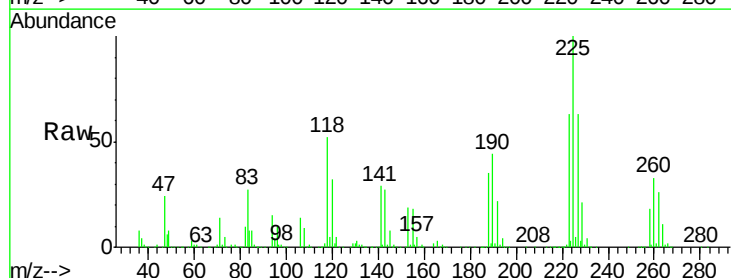
Tgt Ion:225 Resp: 1398033

Ion Ratio Lower Upper

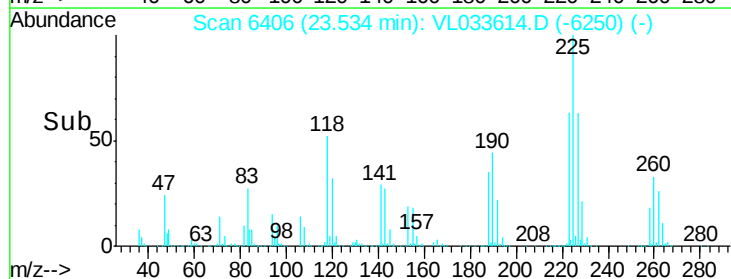
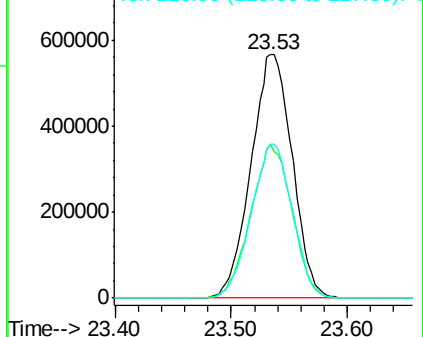
225 100

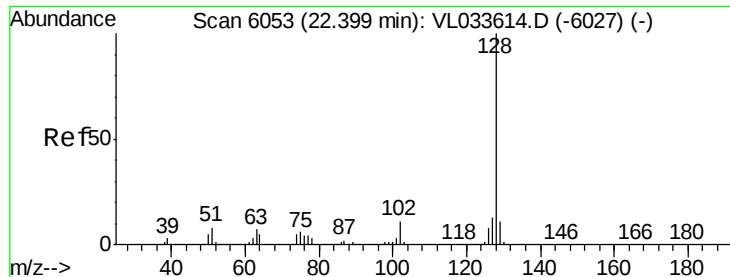
223 63.0 50.4 75.6

227 63.4 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





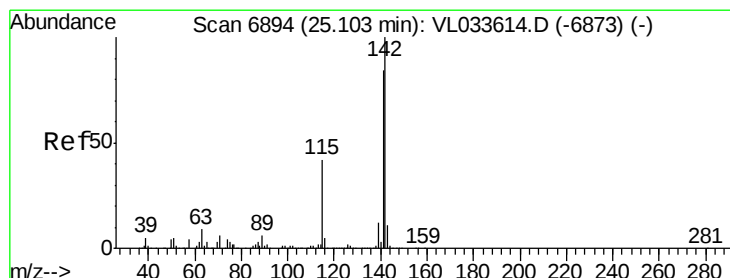
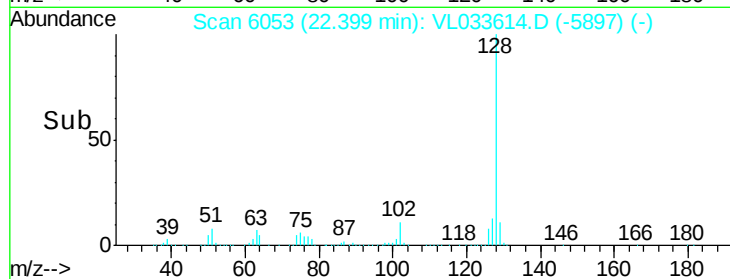
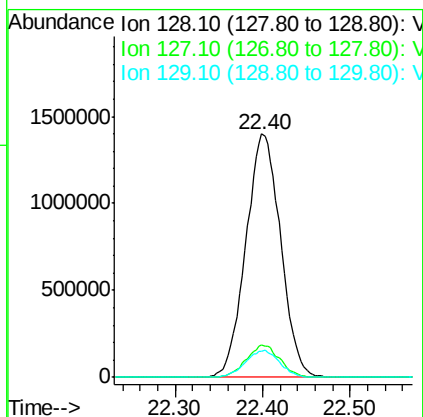
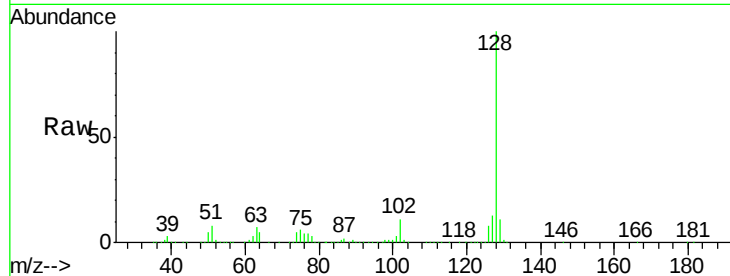
#79
Naphthalene
Concen: 6.939 ppbv
RT: 22.40 min Scan# 6053
Delta R.T. 0.00 min
Lab File: VL033614.D
Acq: 1 May 2019 11:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.6	16.0
129	10.8	8.6	13.0

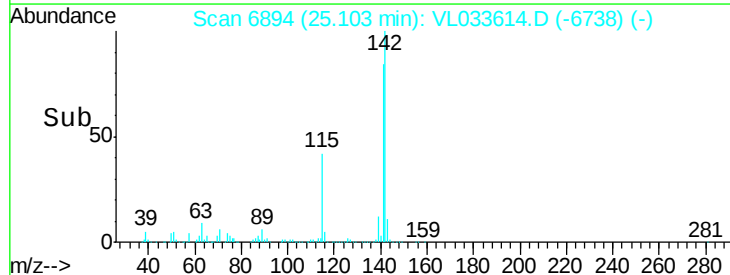
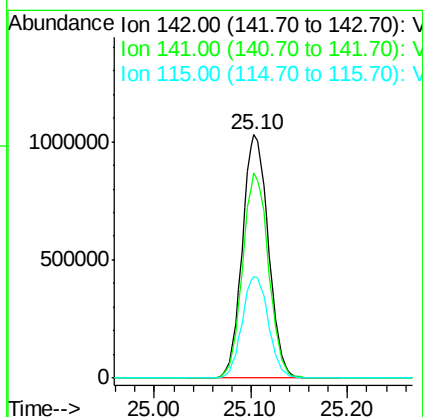
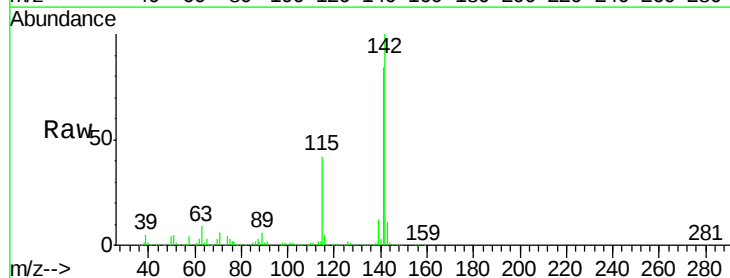
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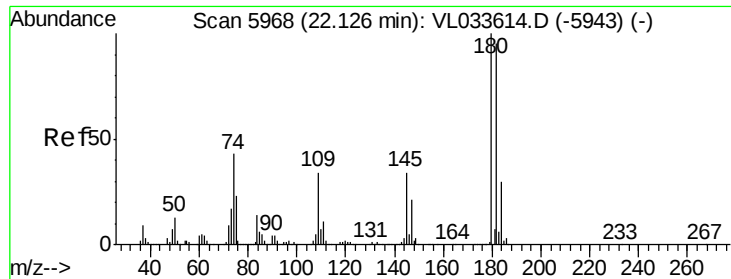
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#80
Naphthalene, 2-methyl-
Concen: 7.975 ppbv
RT: 25.10 min Scan# 6894
Delta R.T. 0.00 min
Lab File: VL033614.D
Acq: 1 May 2019 11:52

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.1	67.3	100.9
115	42.3	33.8	50.8





#81
 1,2,4-Trichlorobenzene
 Concen: 6.430 ppbv
 RT: 22.13 min Scan# 5968
 Delta R.T. 0.00 min
 Lab File: VL033614.D
 Acq: 1 May 2019 11:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.2	114.2
184	30.6	24.5	36.7

Manual Integrations
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