

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030819\
 Data File : VL033263.D
 Acq On : 8 Mar 2019 17:14
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL030819

Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 10:10:50 AM

Quant Time: Mar 09 04:49:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030819AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Sat Mar 09 04:49:08 2019
 QLast Update : Sat Mar 09 03:32:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	938792	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2199903	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2357580m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1778030	9.40	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1663661	9.374	ppbv	100
3) Chlorodifluoromethane	3.01	51	1019937	9.579	ppbv	99
4) Chloromethane	3.17	50	551220	9.936	ppbv	98
5) Vinyl Chloride	3.29	62	534373	9.607	ppbv	99
6) Bromomethane	3.52	94	336464	9.836	ppbv	97
7) Chloroethane	3.60	64	204217	10.154	ppbv	100
8) Dichlorotetrafluoroethane	3.22	85	1298908	9.364	ppbv	98
9) Propene	3.04	41	472548	10.059	ppbv	98
10) Heptane	8.25	43	1258496	9.810	ppbv	99
11) Trichlorofluoromethane	4.00	101	1479140	9.541	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	983578	9.656	ppbv	100
13) Ethanol	3.65	45	99057	7.286	ppbv	96
14) Bromoethene	3.79	108	427501	10.223	ppbv	99
15) Acetone	3.90	43	1023233	9.185	ppbv	99
16) 1,3-Butadiene	3.36	39	489910	10.602	ppbv	100
17) tert-Butyl alcohol	4.36	59	175610	9.666	ppbv	99
18) 1,1-Dichloroethene	4.35	96	440514	9.877	ppbv	97
19) Isopropyl Alcohol	4.02	45	604747	9.041	ppbv	99
20) Methylene Chloride	4.41	84	386653	8.456	ppbv	95
21) Allyl Chloride	4.48	41	694647	10.382	ppbv	100
22) trans-1,2-Dichloroethene	4.96	96	459285	10.041	ppbv	97
23) Vinyl Acetate	5.16	43	1685123	10.559	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1168166	9.971	ppbv	98
25) Ethyl Acetate	5.77	43	1984192	9.326	ppbv	100
26) Hexane	5.78	57	889510	8.873	ppbv	99
27) Carbon Disulfide	4.62	76	1125568	11.086	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1356534	10.533	ppbv	99
29) Chloroform	5.85	83	1469035	9.602	ppbv	99
30) Cyclohexane	7.25	84	759851	9.790	ppbv	98
31) cis-1,2-Dichloroethene	5.64	61	943732	9.938	ppbv	97
32) 1,1,1-Trichloroethane	6.62	97	1449671	10.034	ppbv	99
34) 2-Butanone	5.33	43	1326774	9.976	ppbv	99
35) Carbon Tetrachloride	7.13	117	1514243	10.141	ppbv	97
36) Benzene	7.01	78	1922089	10.149	ppbv	96
37) 1,2-Dichloroethane	6.41	62	1127384	9.245	ppbv	100
38) Trichloroethene	7.96	130	732492	9.967	ppbv	98
39) 1,2-Dichloropropane	7.74	63	746133	10.034	ppbv	96
40) 1,4-Dioxane	7.95	88	257915	9.411	ppbv	# 1
41) Tetrahydrofuran	6.15	42	779918	10.379	ppbv	99
42) Bromodichloromethane	7.92	83	1685008	10.144	ppbv	98
43) Methyl Methacrylate	8.14	69	800962	10.512	ppbv	99

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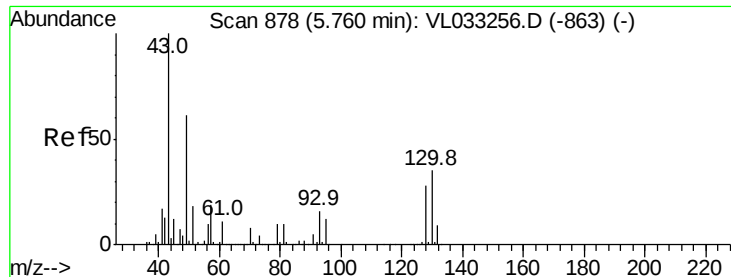
Manual Integrations
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 3/11/2019 10:10:50 AM

Quant Time: Mar 09 04:49:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030819AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Sat Mar 09 04:49:08 2019
 QLast Update : Sat Mar 09 03:32:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3243623	9.637	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1052008	11.400	ppbv	97
46) cis-1,3-Dichloropropene	8.83	75	1191272	10.968	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	782997	9.811	ppbv	96
48) Dibromochloromethane	10.45	129	1378577	10.536	ppbv	98
49) Bromoform	13.20	173	1191908	10.236	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	1971832	9.799	ppbv	100
51) 2-Hexanone	10.27	43	1546345	10.309	ppbv #	100
52) Tetrachloroethene	11.37	164	695439	9.855	ppbv	99
53) Toluene	9.95	91	2256269	10.402	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1246502	9.971	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	954024	9.667	ppbv #	57
57) Chlorobenzene	12.30	112	1623314	9.389	ppbv	98
58) Ethyl Benzene	12.87	91	3106256	9.738	ppbv	99
59) m/p-Xylene	13.15	91	5086072m	17.612	ppbv	
60) o-Xylene	13.85	91	2457448	8.789	ppbv	99
61) Styrene	13.68	104	1863951	9.798	ppbv	99
62) Isopropylbenzene	14.83	105	3455915	9.256	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	1641858	9.129	ppbv	100
64) n-propylbenzene	15.72	120	879901	9.637	ppbv	100
65) tert-Butylbenzene	16.91	119	3044290	9.694	ppbv	100
66) Benzyl Chloride	17.16	91	1567879	13.325	ppbv	99
67) sec-Butylbenzene	17.46	105	4250621	9.520	ppbv	100
69) p-Isopropyltoluene	17.82	119	3790642	10.461	ppbv	100
70) n-Butylbenzene	18.71	91	3992687	10.166	ppbv	100
71) 2-Chlorotoluene	15.62	91	2715844	9.721	ppbv	99
72) 4-Ethyltoluene	16.00	105	2960032	10.167	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	2753139	9.926	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	2804681	9.716	ppbv	98
75) 1,3-Dichlorobenzene	17.17	146	1580742	9.267	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1611360	9.647	ppbv	99
77) 1,2-Dichlorobenzene	17.98	146	1624498	9.893	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1324625	10.649	ppbv	100
79) Naphthalene	22.41	128	3257413	10.350	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1780960	23.122	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1517471	9.349	ppbv	98

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



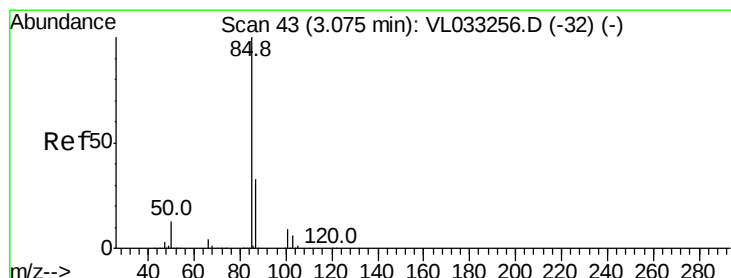
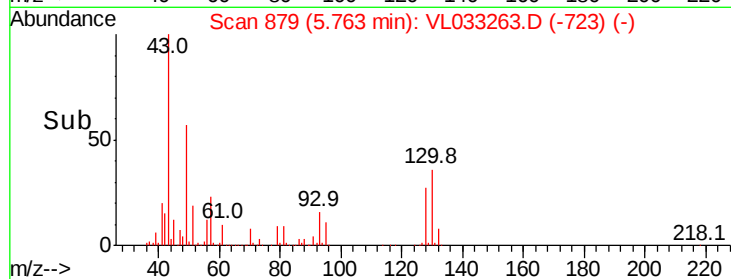
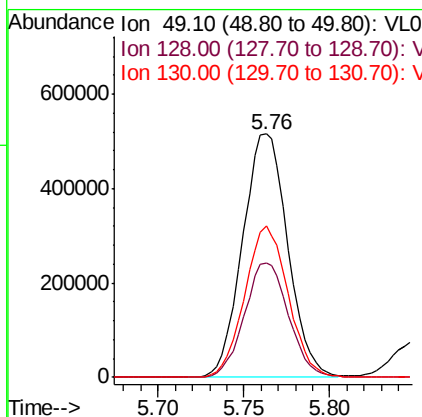
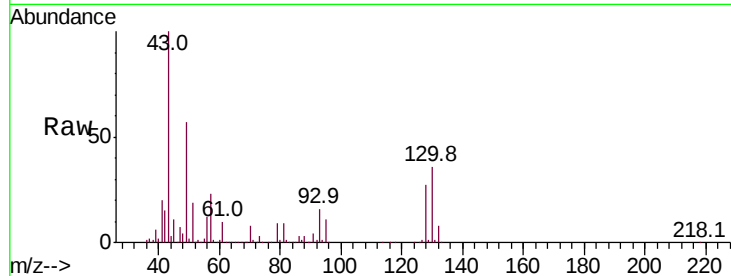
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Bromochloromethane
Concen: 10.000 ppbv
RT: 5.76 min Scan# 879
Delta R.T. 0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Instrument :
MSVOA_L
ClientSampleId :
ICVVL030819

Tot Ion	Ratio	Lower	Upper
49	100		
128	46.3	22.5	67.5
130	60.0	29.1	87.4

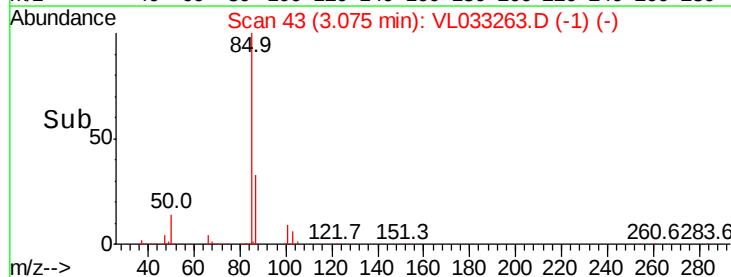
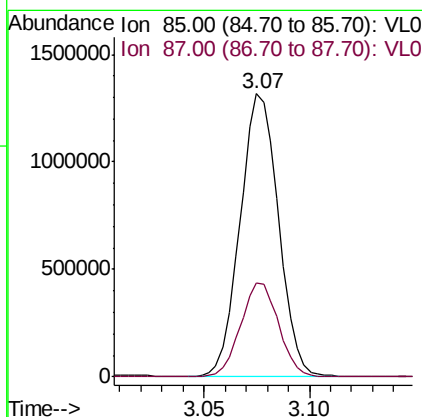
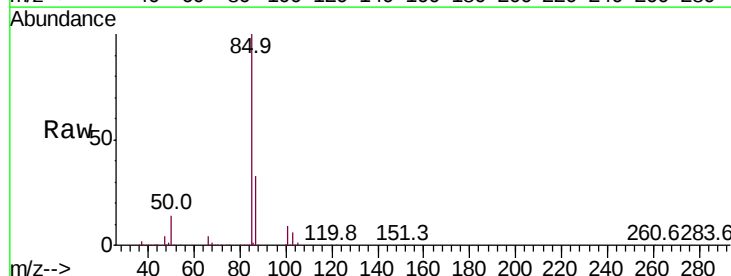
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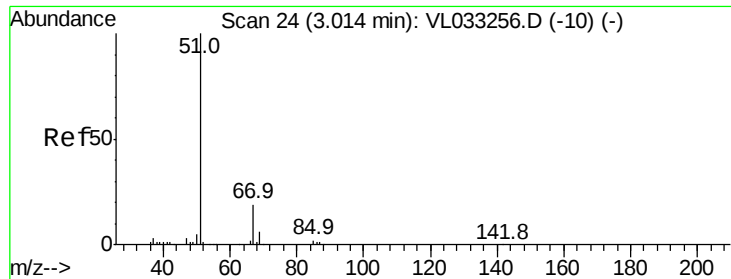
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#2
Dichlorodifluoromethane
Concen: 9.374 ppbv
RT: 3.07 min Scan# 43
Delta R.T. -0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.0	26.2	39.4





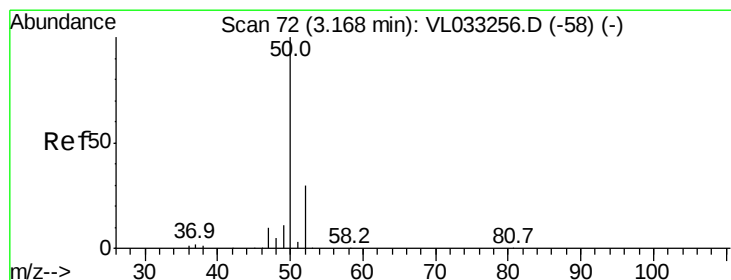
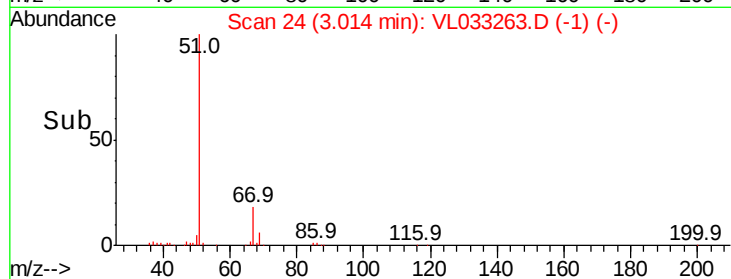
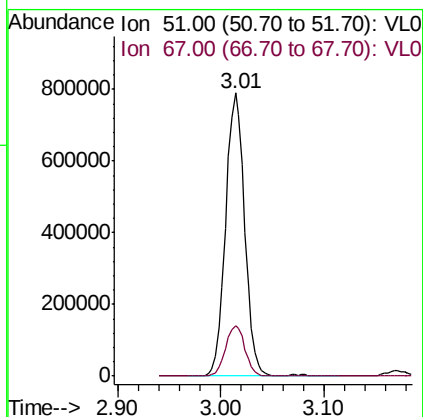
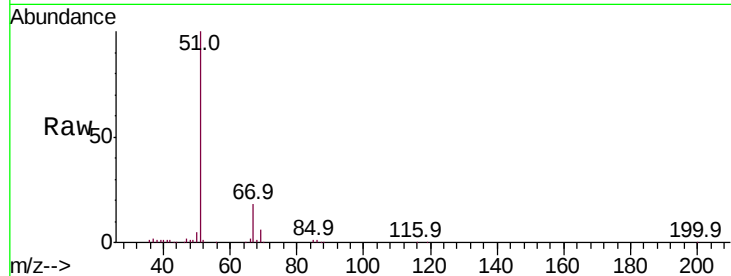
#3
Chlorodifluoromethane
Concen: 9.579 ppbv
RT: 3.01 min Scan# 24
Delta R.T. -0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Instrument :
MSVOA_L
ClientSampleId :
ICVVL030819

Tot Ion: 51 Resp: 1019937
Ion Ratio Lower Upper
51 100
67 18.2 15.0 22.6

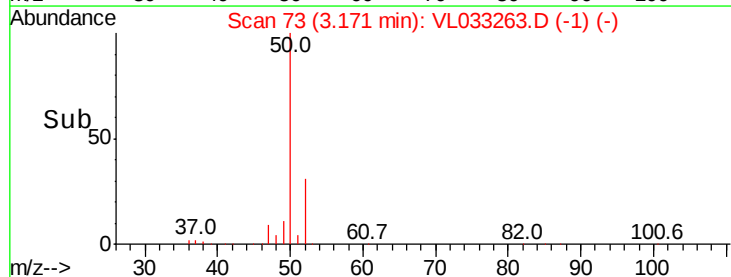
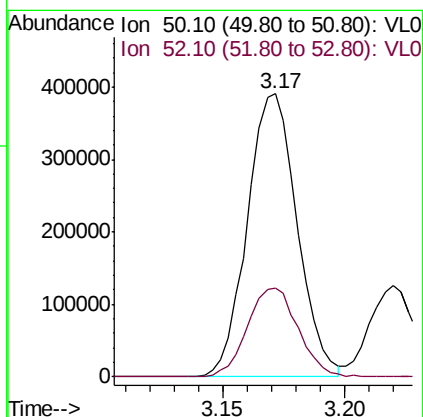
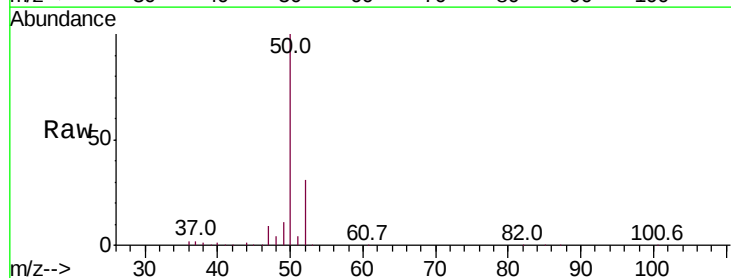
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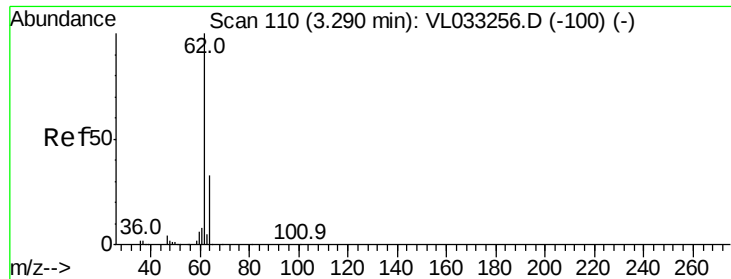
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#4
Chloromethane
Concen: 9.936 ppbv
RT: 3.17 min Scan# 73
Delta R.T. 0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Tgt Ion: 50 Resp: 551220
Ion Ratio Lower Upper
50 100
52 31.3 24.2 36.2





#5

Vinyl Chloride

Concen: 9.607 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

Instrument :

MSVOA_L

ClientSampleId :

ICVVL030819

Tot Ion: 62 Resp: 534373

Ion Ratio Lower Upper

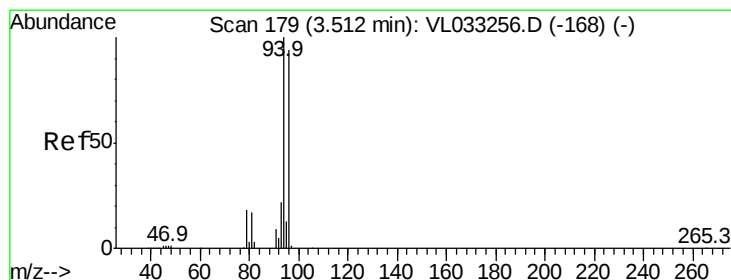
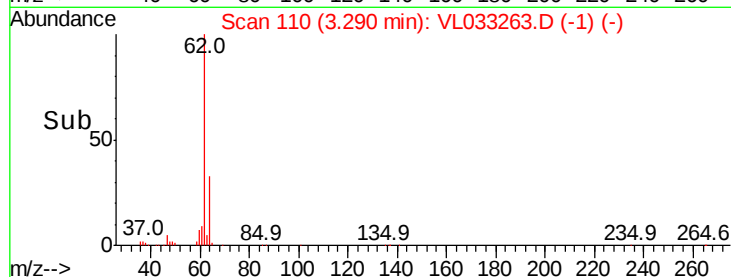
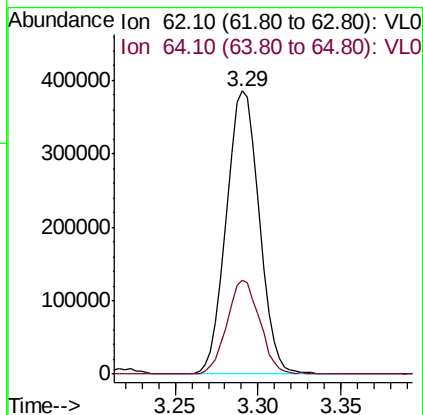
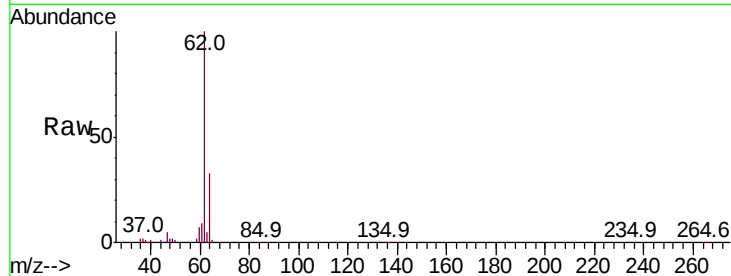
62 100

64 33.4 26.4 39.6

Manual Integrations
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#6

Bromomethane

Concen: 9.836 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033263.D

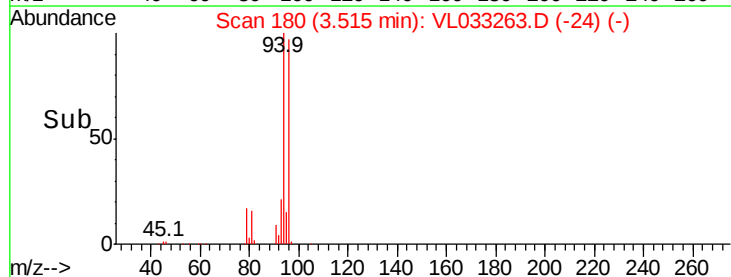
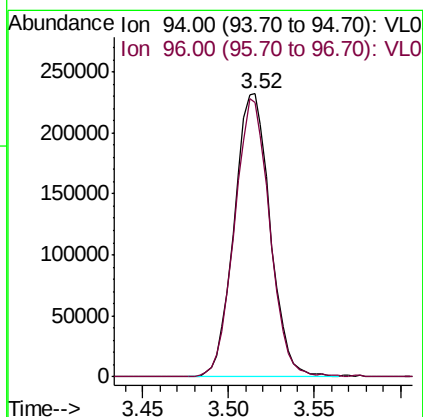
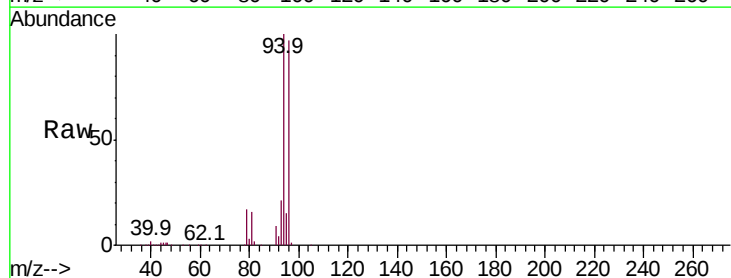
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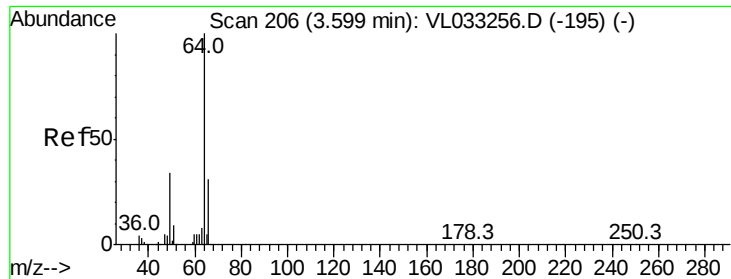
Tgt Ion: 94 Resp: 336464

Ion Ratio Lower Upper

94 100

96 96.9 75.3 112.9





#7

Chloroethane

Concen: 10.154 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

Instrument :

MSVOA_L

ClientSampleId :

ICVVL030819

Tot Ion: 64 Resp: 204217

Ion Ratio Lower Upper

64 100

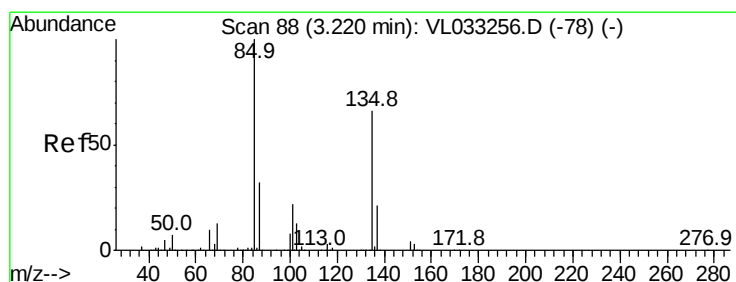
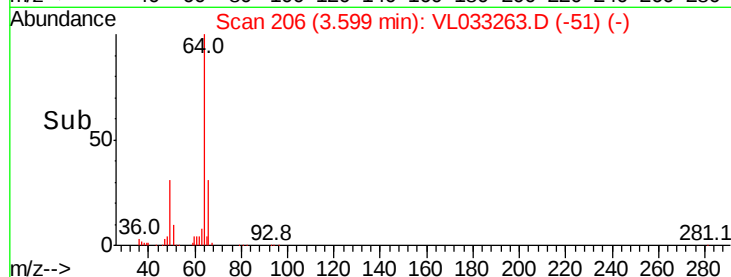
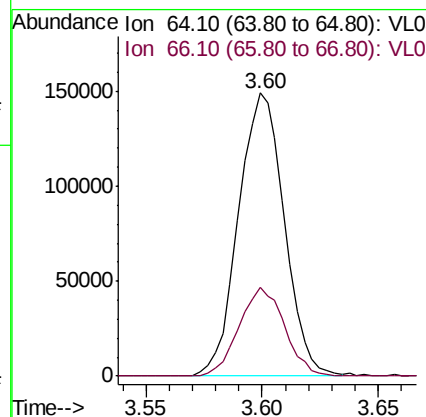
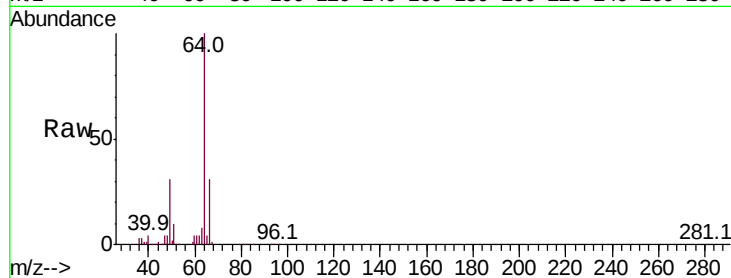
66 31.4 25.2 37.8

Manual Integrations

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3/11/2019 10:10:50 AM



#8

Dichlorotetrafluoroethane

Concen: 9.364 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033263.D

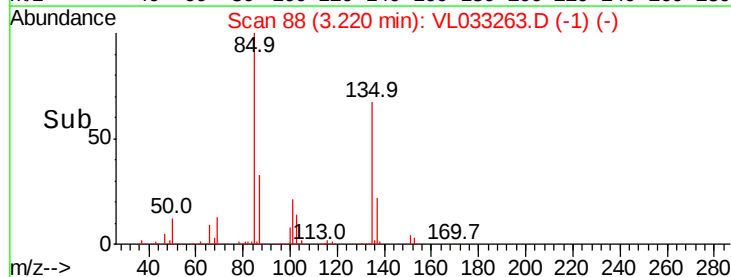
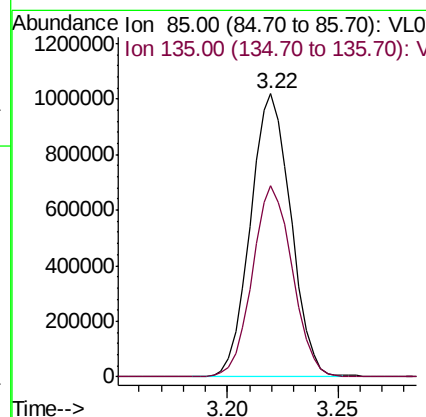
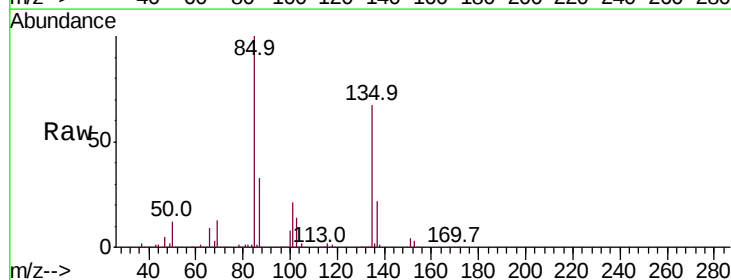
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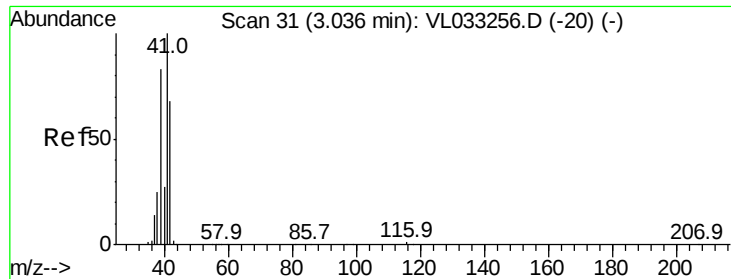
Tgt Ion: 85 Resp: 1298908

Ion Ratio Lower Upper

85 100

135 67.2 52.3 78.5





#9

Propene

Concen: 10.059 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

Instrument :

MSVOA_L

ClientSampleId :

ICVVL030819

Tot Ion: 41 Resp: 472548

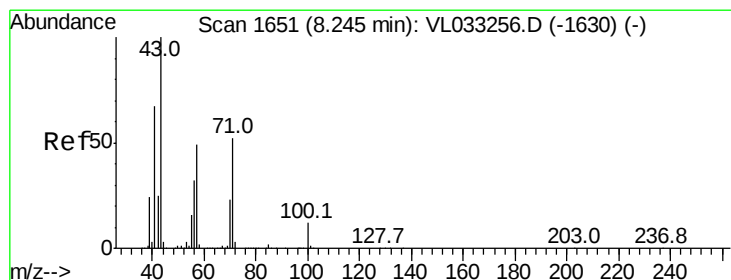
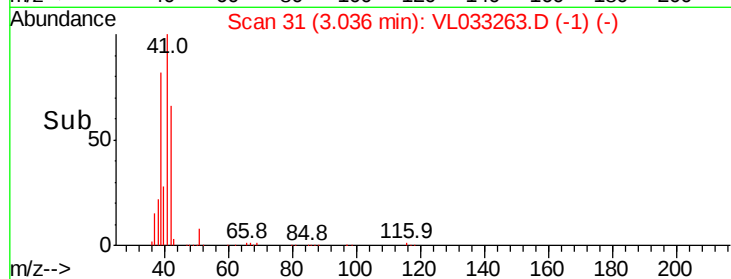
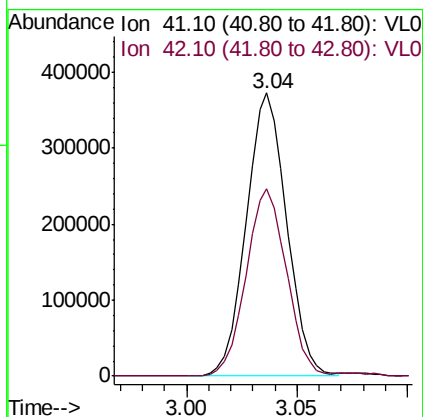
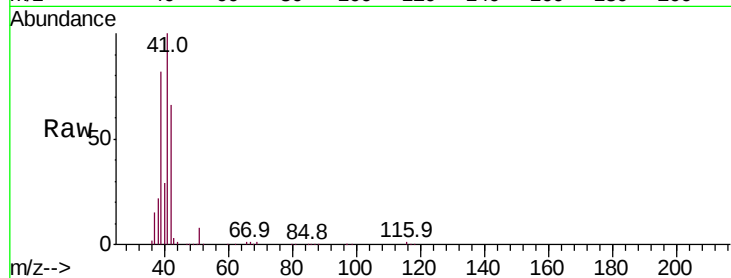
Ion Ratio Lower Upper

41 100

42 67.5 55.2 82.8

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3/11/2019 10:10:50 AM



#10

Heptane

Concen: 9.810 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: VL033263.D

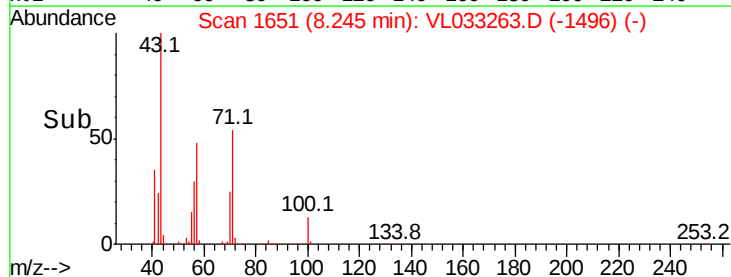
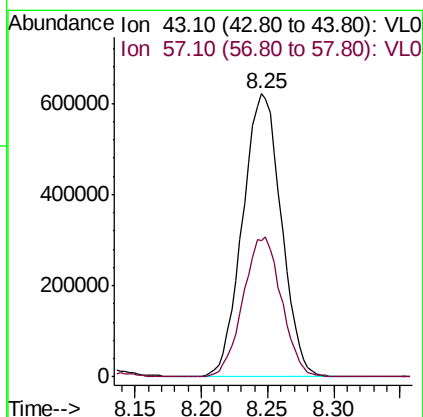
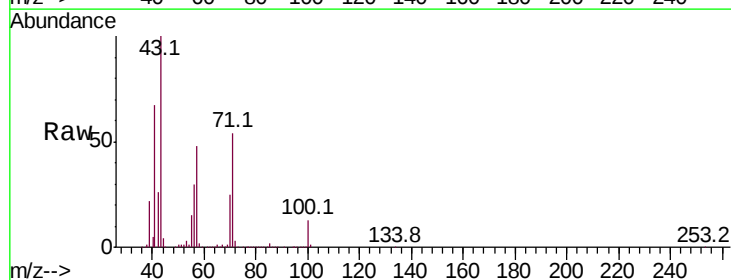
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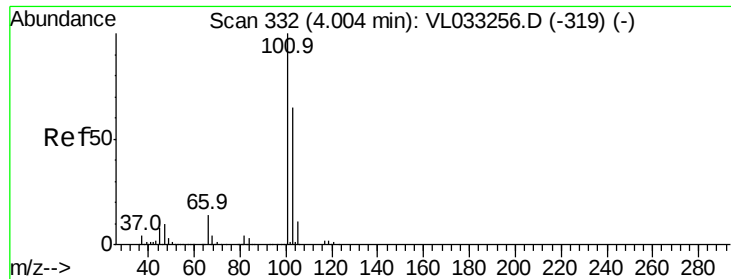
Tgt Ion: 43 Resp: 1258496

Ion Ratio Lower Upper

43 100

57 49.0 40.0 60.0





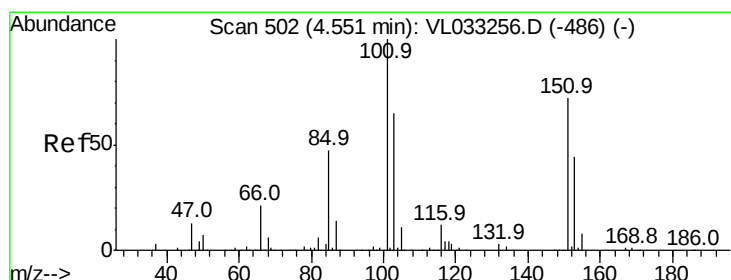
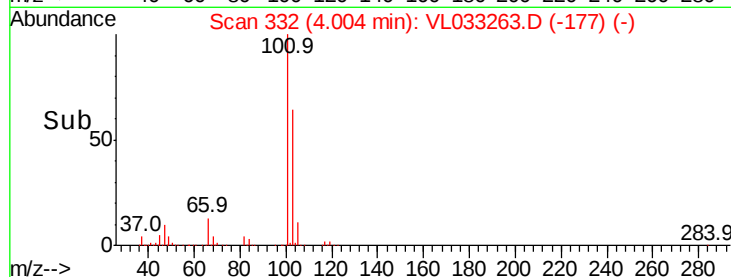
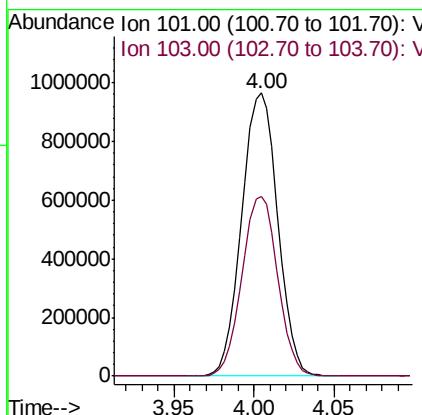
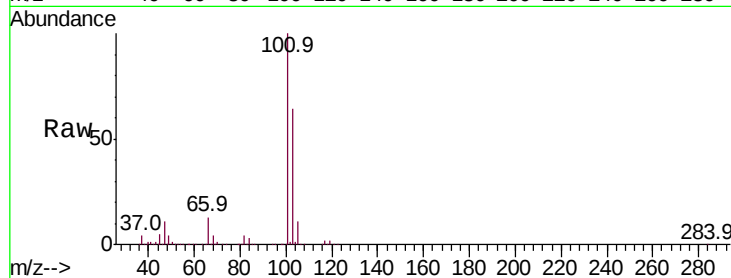
#11
 Trichlorofluoromethane
 Concen: 9.541 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033263.D
 Acq: 8 Mar 2019 17:14

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL030819

Tot Ion:101 Resp: 1479140
 Ion Ratio Lower Upper
 101 100
 103 63.7 51.9 77.9

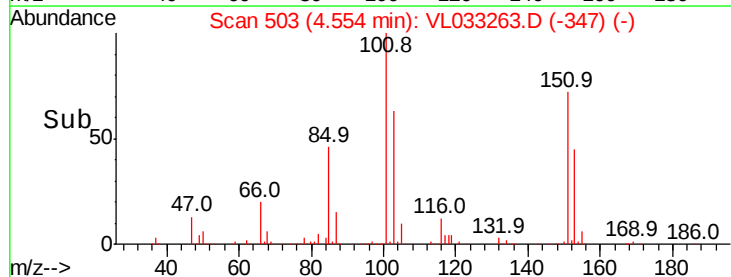
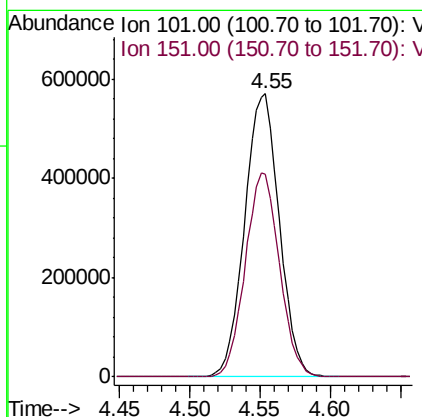
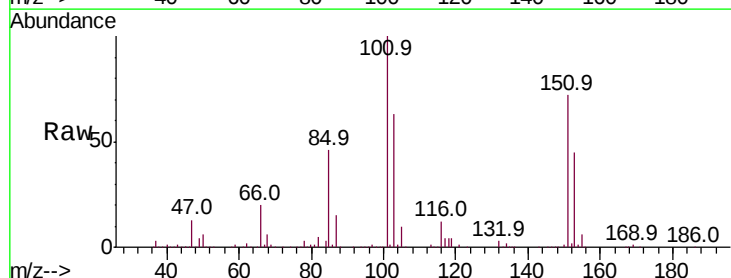
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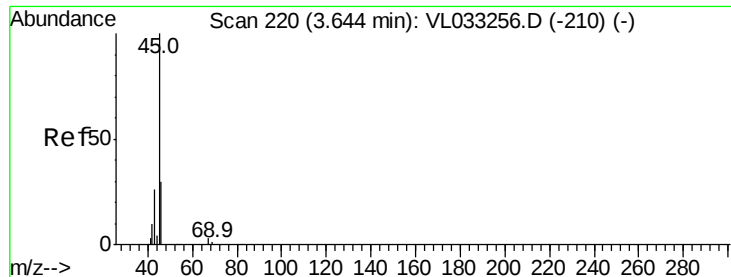
MMDadoda
 3/11/2019 10:10:50 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.656 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VL033263.D
 Acq: 8 Mar 2019 17:14

Tgt Ion:101 Resp: 983578
 Ion Ratio Lower Upper
 101 100
 151 71.2 57.2 85.8





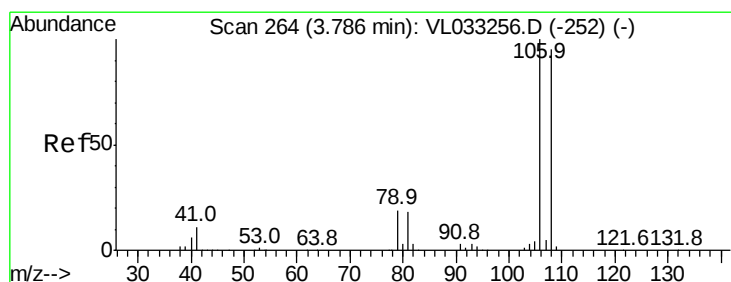
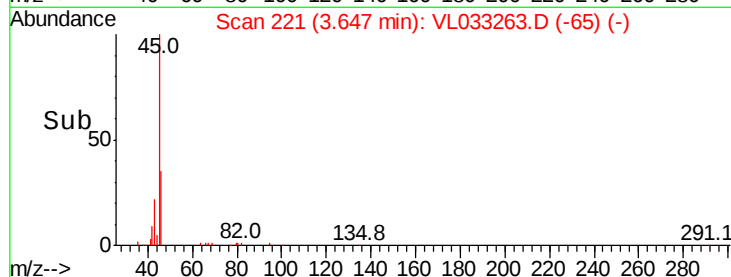
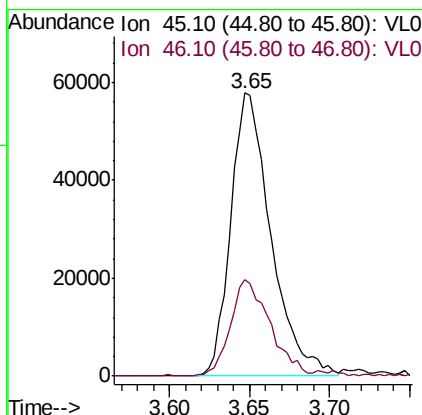
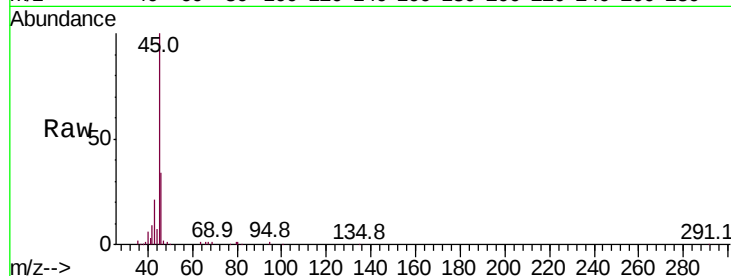
#13
Ethanol
Concen: 7.286 ppbv
RT: 3.65 min Scan# 221
Delta R.T. 0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Instrument :
MSVOA_L
ClientSampleId :
ICVVL030819

Tot Ion	45	46	Ratio	Lower	Upper
45	100				
46	35.1		14.9	59.7	

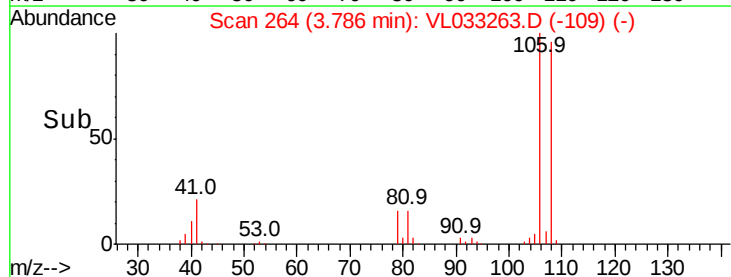
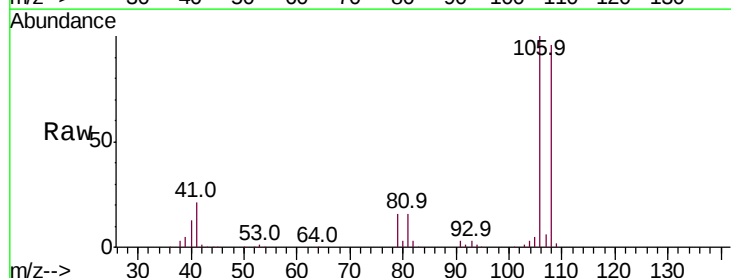
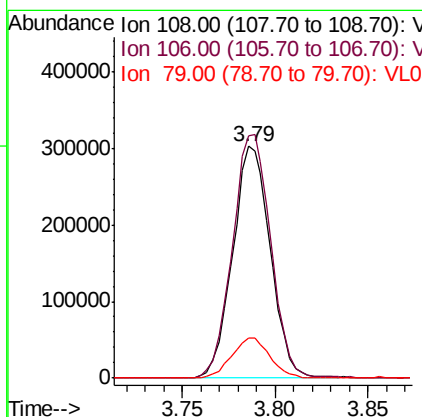
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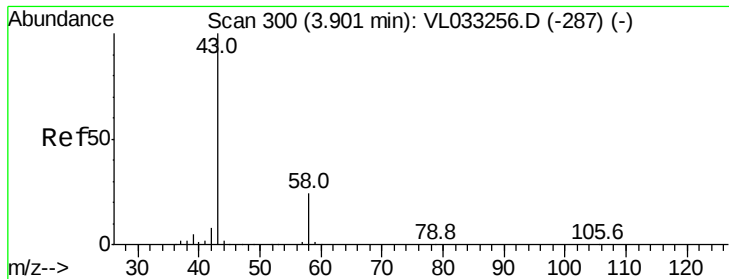
MMDadoda
3/11/2019 10:10:50 AM



#14
Bromoethene
Concen: 10.223 ppbv
RT: 3.79 min Scan# 264
Delta R.T. -0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Tgt Ion	108	106	79	Ratio	Lower	Upper
108	100					
106	107.8			86.9	130.3	
79	17.9			15.8	23.6	





#15

Acetone

Concen: 9.185 ppbv

RT: 3.90 min Scan# 300

Delta R.T. -0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

Tot Ion: 43 Resp: 1023233

Ion Ratio Lower Upper

43 100

58 25.9 20.2 30.2

Instrument :

MSVOA_L

ClientSampleId :

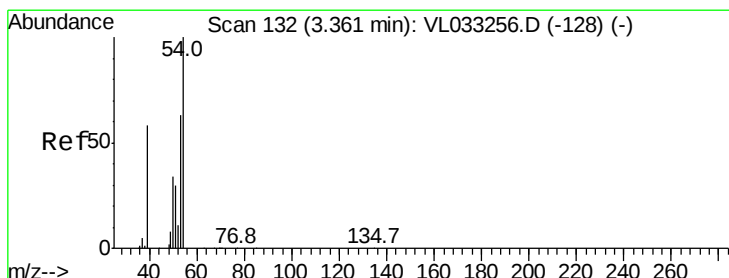
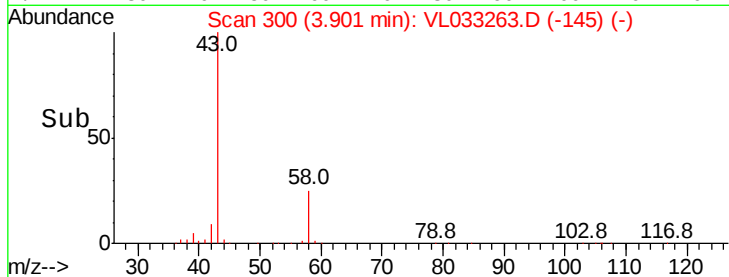
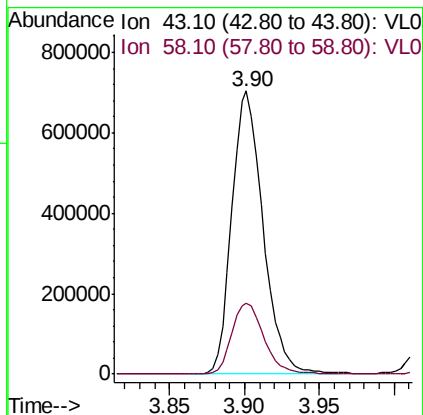
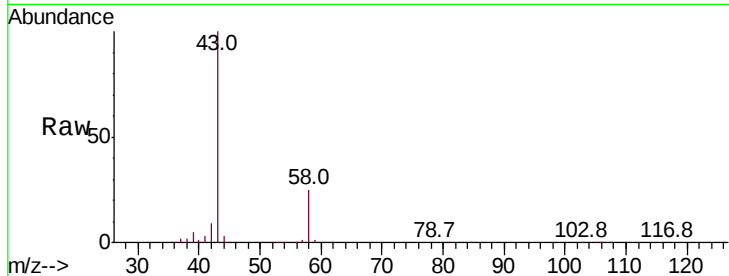
ICVVL030819

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#16

1,3-Butadiene

Concen: 10.602 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033263.D

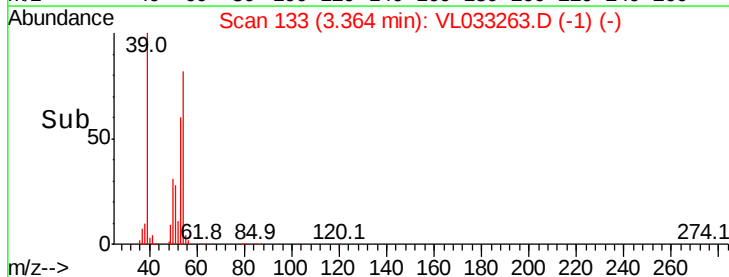
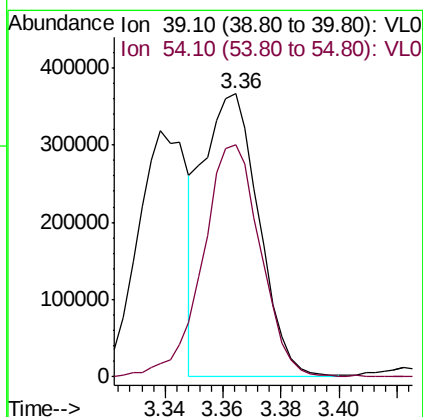
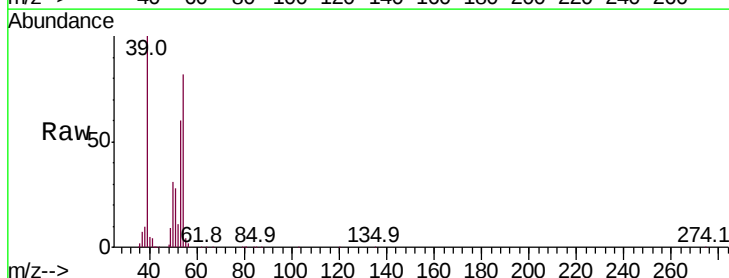
Acq: 8 Mar 2019 17:14

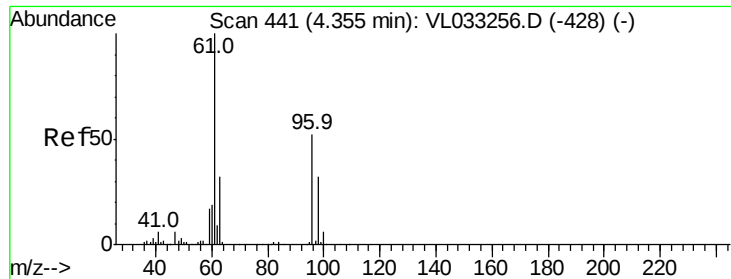
Tgt Ion: 39 Resp: 489910

Ion Ratio Lower Upper

39 100

54 85.6 68.6 103.0





#17

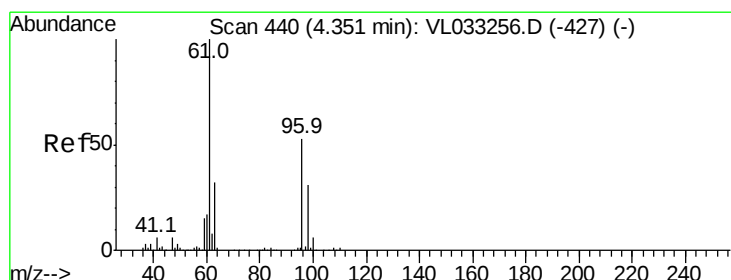
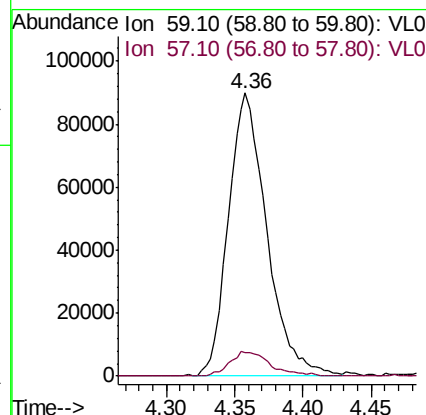
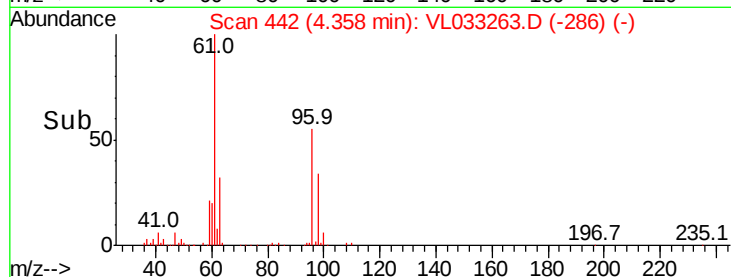
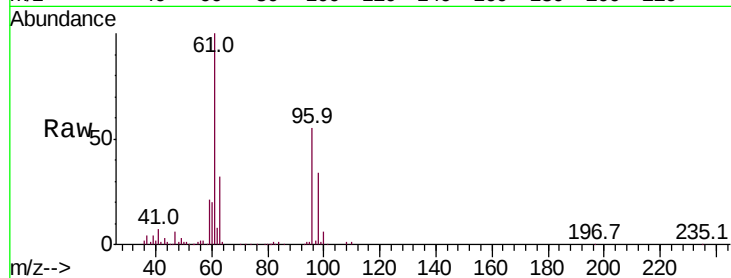
tert-Butyl alcohol
Concen: 9.666 ppbv
RT: 4.36 min Scan# 442
Delta R.T. 0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Instrument :
MSVOA_L
ClientSampled :
ICVVL030819

Tot Ion: 59 Resp: 175610
Ion Ratio Lower Upper
59 100
57 9.2 7.2 10.8

Manual Integrations
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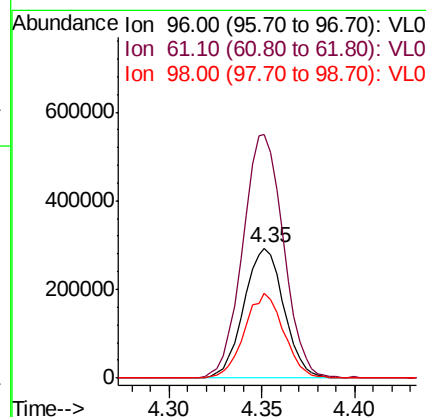
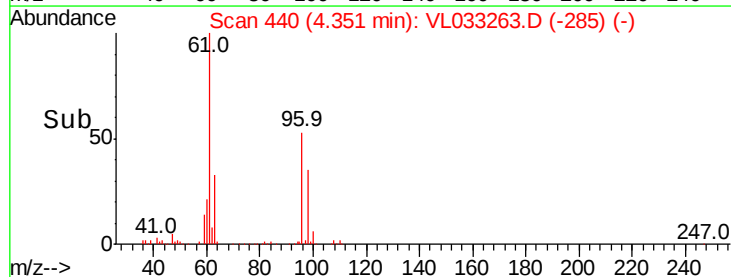
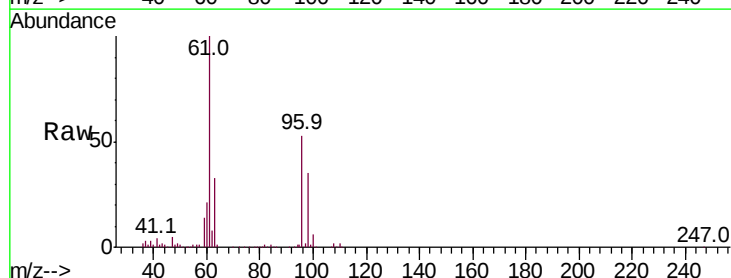
MMDadoda
3/11/2019 10:10:50 AM

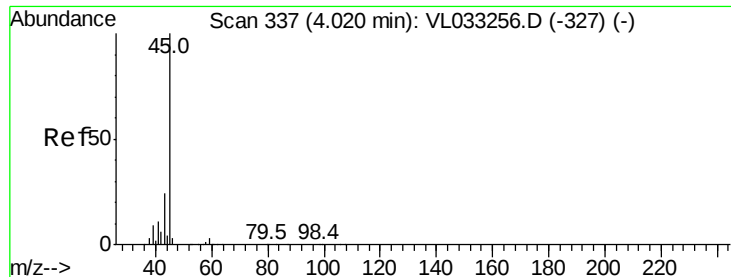


#18

1,1-Dichloroethene
Concen: 9.877 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Tgt Ion: 96 Resp: 440514
Ion Ratio Lower Upper
96 100
61 187.5 150.6 226.0
98 65.5 47.0 70.4





#19

Isopropyl Alcohol

Concen: 9.041 ppbv

RT: 4.02 min Scan# 338

Delta R.T. 0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

Tot Ion: 45 Resp: 604747

Ion Ratio Lower Upper

45 100

58 1.7 1.5 2.3

Instrument :

MSVOA_L

ClientSampleId :

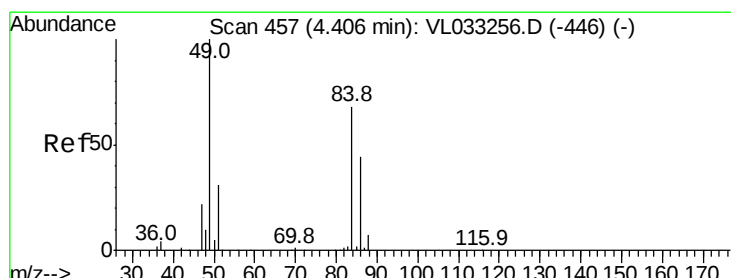
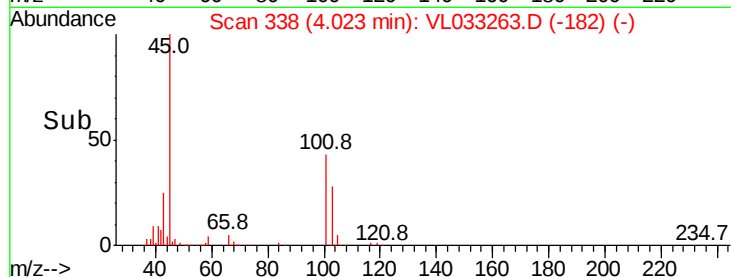
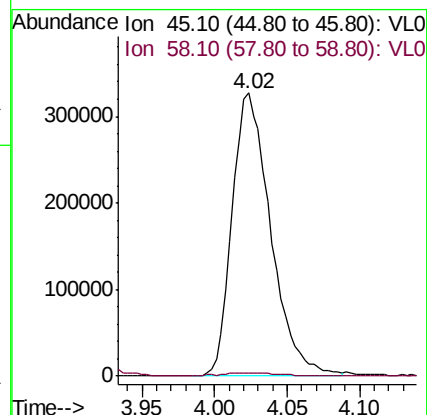
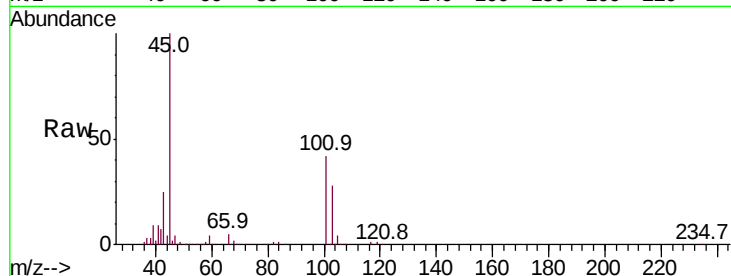
ICVVL030819

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#20

Methylene Chloride

Concen: 8.456 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

Tgt Ion: 84 Resp: 386653

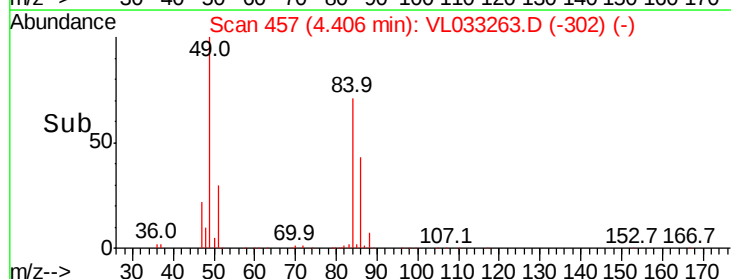
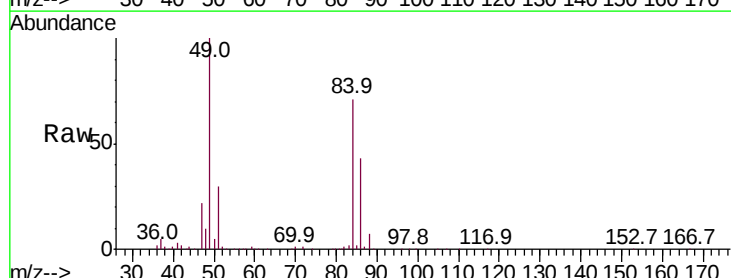
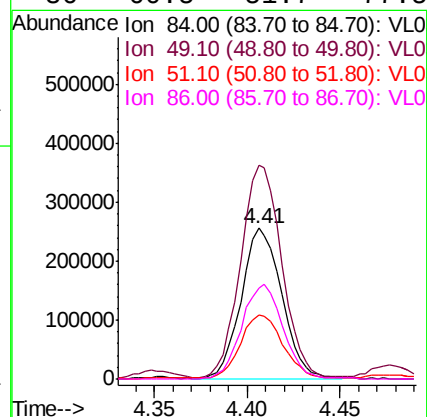
Ion Ratio Lower Upper

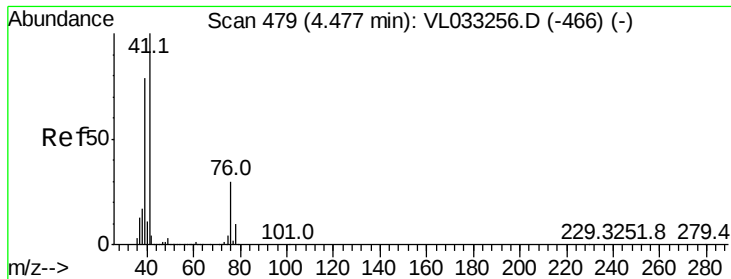
84 100

49 141.1 117.8 176.6

51 41.9 36.9 55.3

86 60.5 51.7 77.5





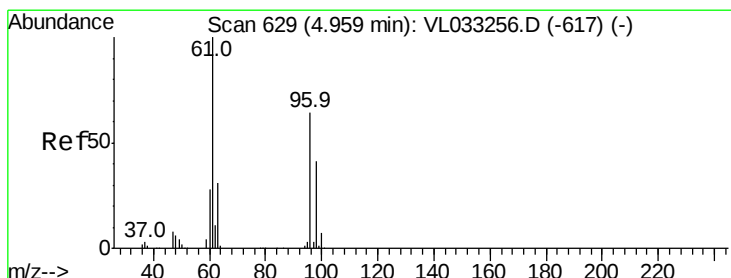
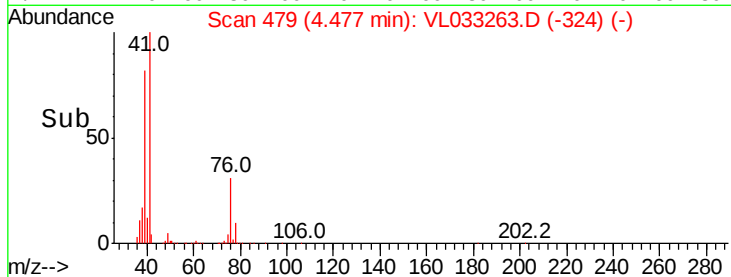
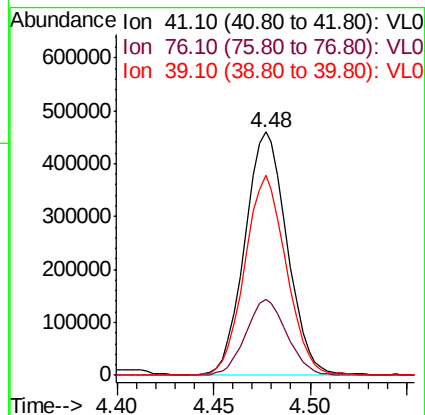
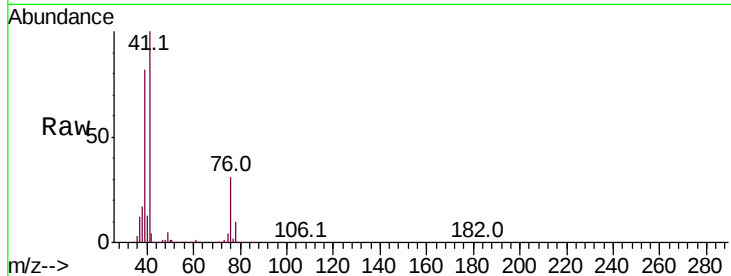
#21
Allvl Chloride
Concen: 10.382 ppbv
RT: 4.48 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Instrument :
MSVOA_L
ClientSampleId :
ICVVL030819

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.8	24.5	36.7
39	81.4	65.3	97.9

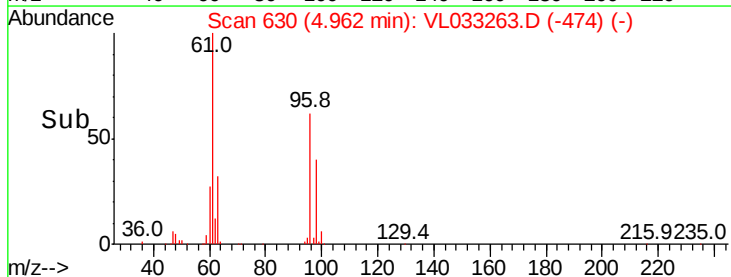
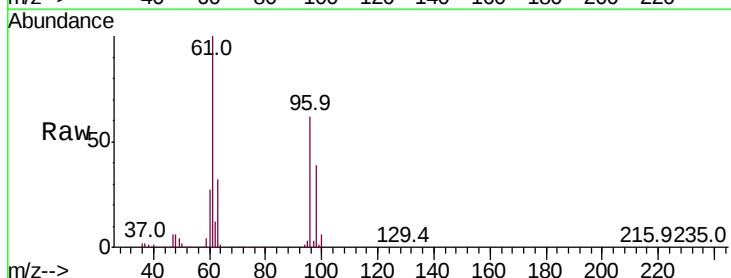
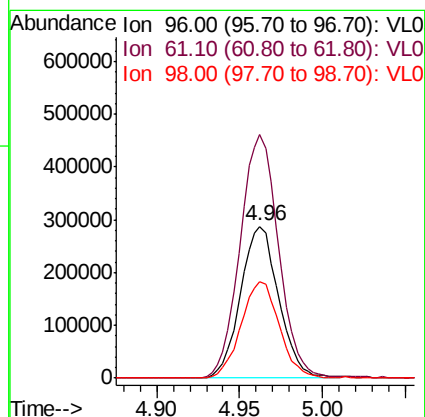
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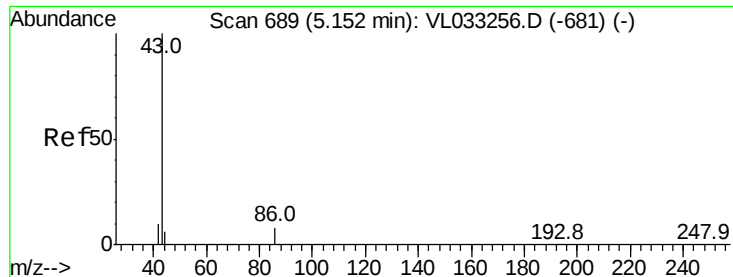
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 10.041 ppbv
RT: 4.96 min Scan# 630
Delta R.T. 0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Tgt Ion	Ratio	Lower	Upper
96	100		
61	160.5	125.7	188.5
98	63.2	52.1	78.1





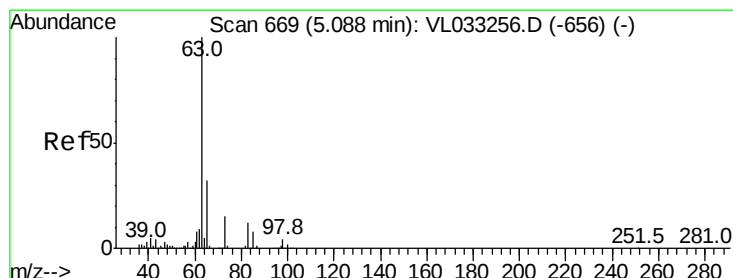
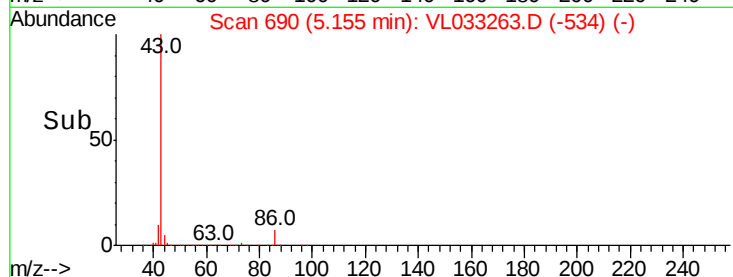
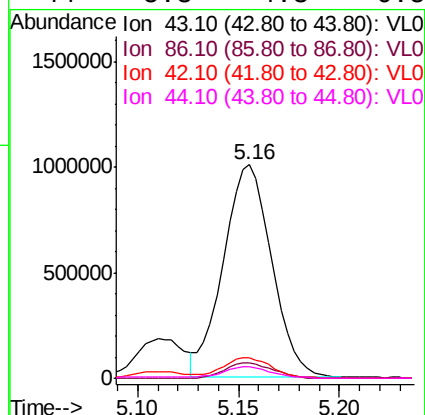
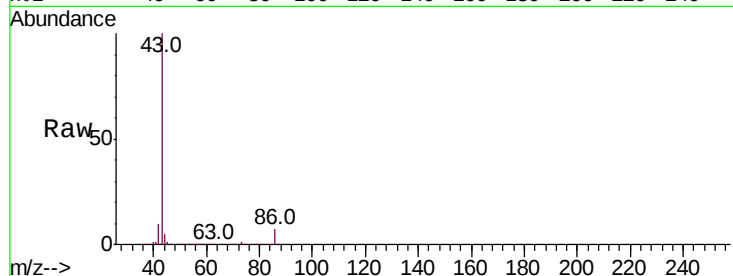
#23
 Vinyl Acetate
 Concen: 10.559 ppbv
 RT: 5.16 min Scan# 690
 Delta R.T. 0.00 min
 Lab File: VL033263.D
 Acq: 8 Mar 2019 17:14

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL030819

Tot Ion	Ratio	Lower	Upper
43	100		
86	7.2	5.6	8.4
42	9.7	8.1	12.1
44	5.3	4.3	6.5

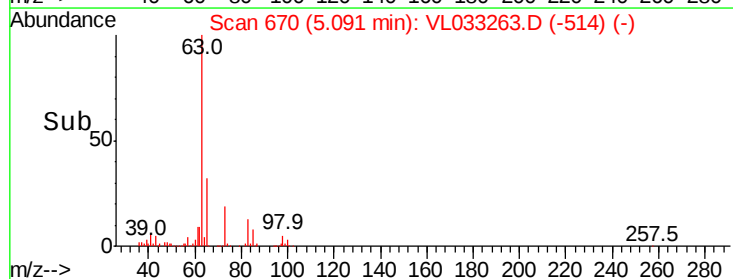
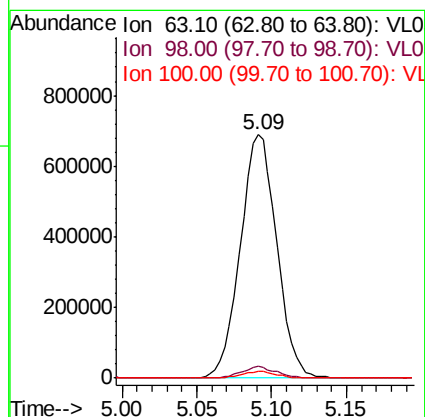
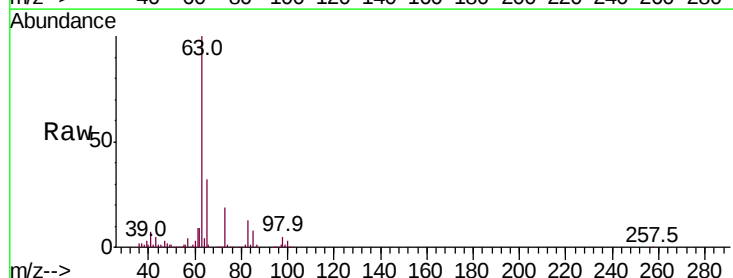
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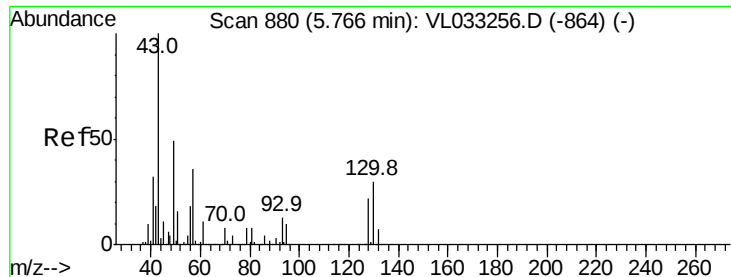
MMDadoda
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#24
 1,1-Dichloroethane
 Concen: 9.971 ppbv
 RT: 5.09 min Scan# 670
 Delta R.T. 0.00 min
 Lab File: VL033263.D
 Acq: 8 Mar 2019 17:14

Tgt Ion	Ratio	Lower	Upper
63	100		
98	5.1	2.1	6.2
100	2.8	1.3	3.8





#25

Ethyl Acetate

Concen: 9.326 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

Instrument :

MSVOA_L

ClientSampleId :

ICVVL030819

Tot Ion: 43 Resp: 1984192

Ion Ratio Lower Upper

43 100

45 9.6 7.8 11.8

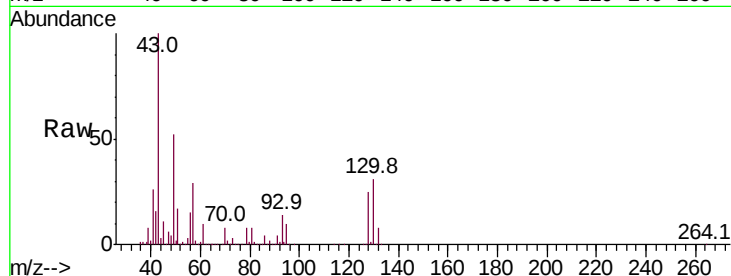
61 9.2 7.4 11.0

70 7.1 5.4 8.2

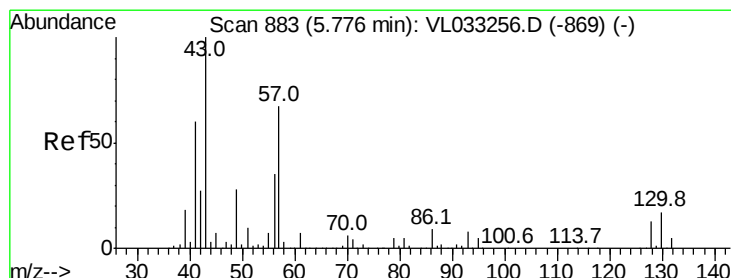
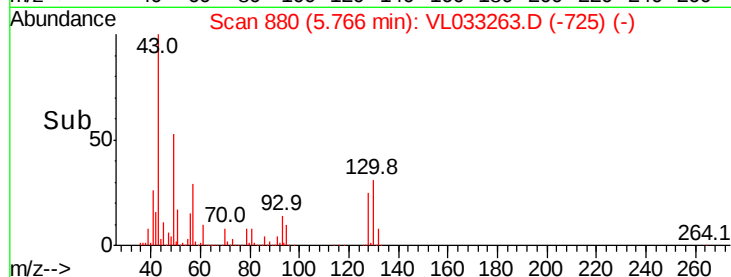
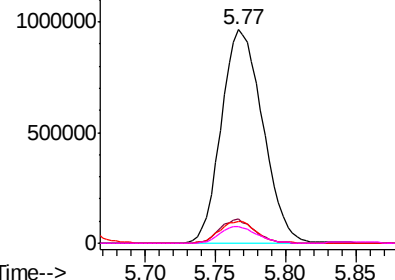
Manual Integrations
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Abundance Ion 43.10 (42.80 to 43.80): VL0
1500000
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 8.873 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

Tgt Ion: 57 Resp: 889510

Ion Ratio Lower Upper

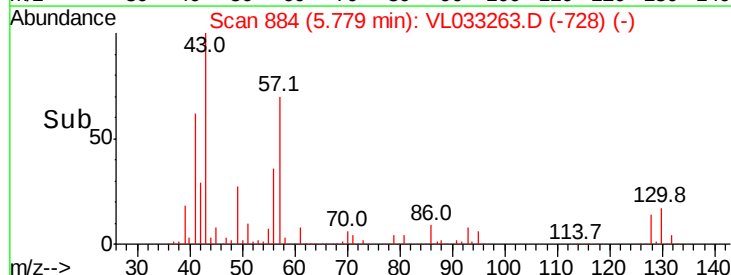
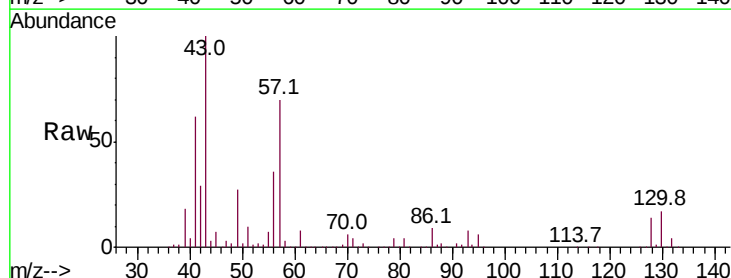
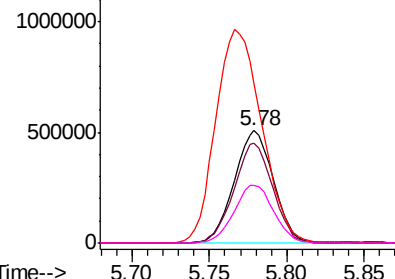
57 100

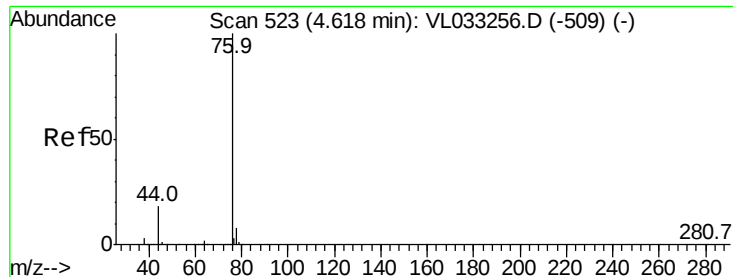
41 88.4 72.2 108.4

43 224.7 179.0 268.4

56 52.7 41.8 62.8

Abundance Ion 57.10 (56.80 to 57.80): VL0
1500000
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: 11.086 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

Tot Ion:	76	Resp:	1125568
Ion	Ratio	Lower	Upper
76	100		
44	18.0	14.8	22.2
78	9.3	7.2	10.8

Instrument :

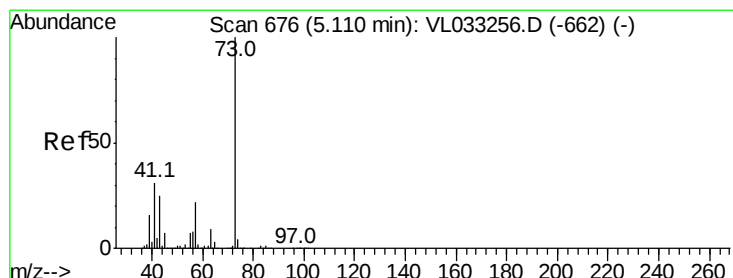
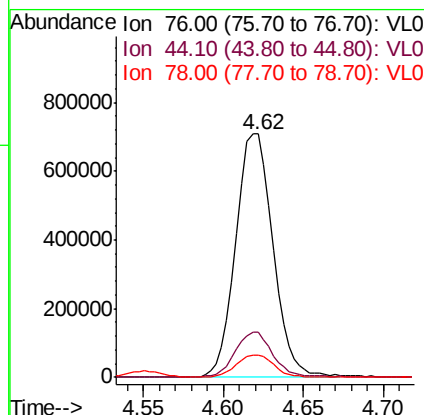
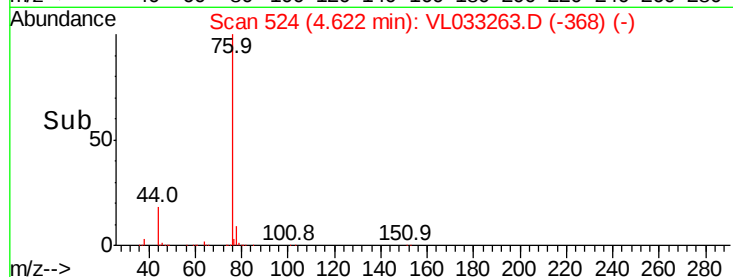
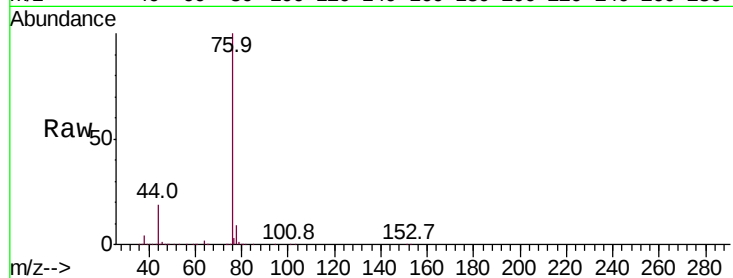
MSVOA_L

ClientSampleId :

ICVVL030819

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3/11/2019 10:10:50 AM



#28

Methyl tert-Butyl Ether

Concen: 10.533 ppbv

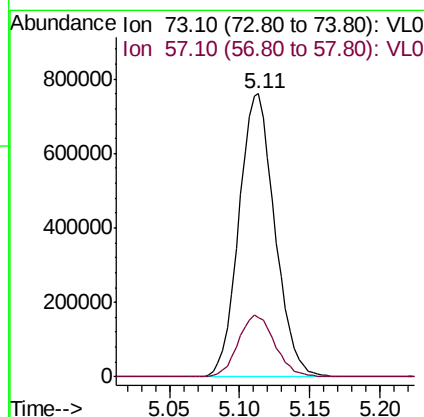
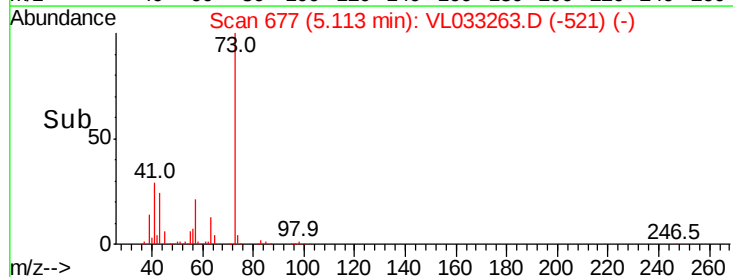
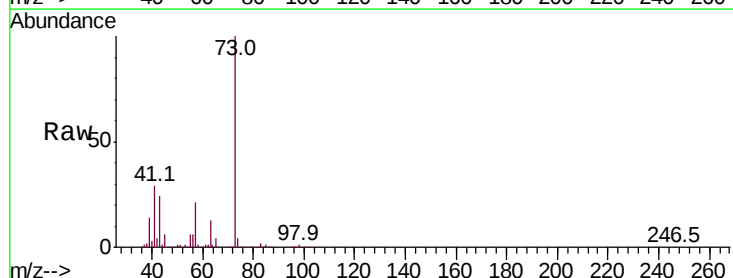
RT: 5.11 min Scan# 677

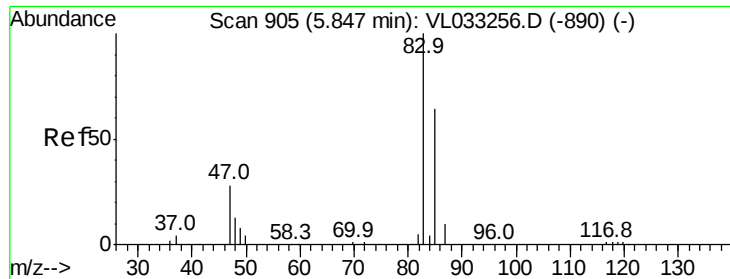
Delta R.T. 0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

Tgt Ion:	73	Resp:	1356534
Ion	Ratio	Lower	Upper
73	100		
57	22.4	17.7	26.5





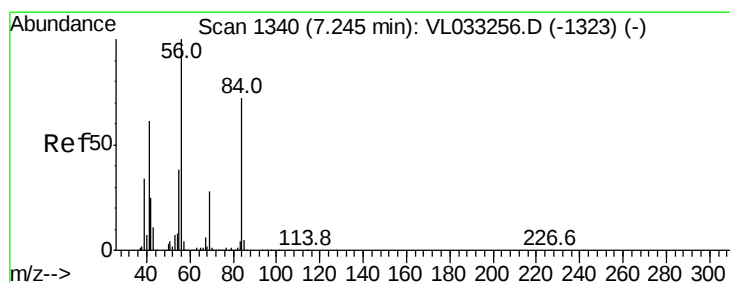
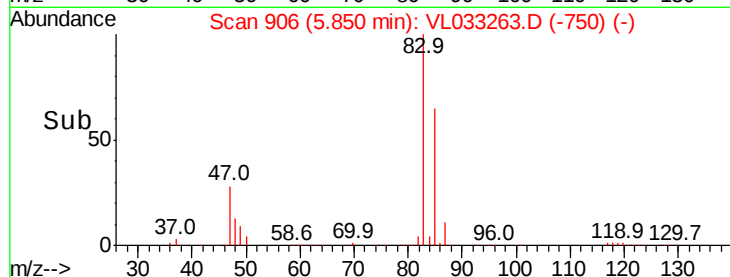
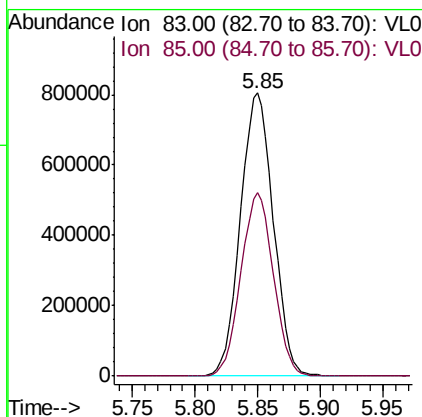
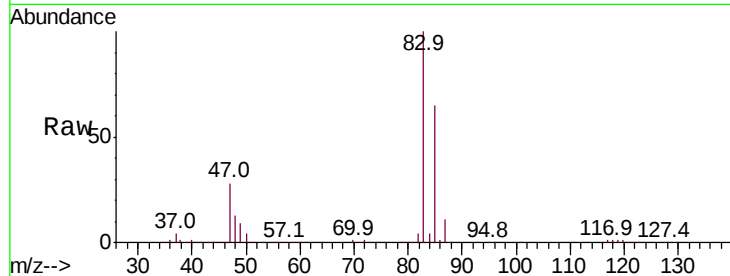
#29
Chloroform
Concen: 9.602 ppbv
RT: 5.85 min Scan# 906
Delta R.T. 0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Instrument :
MSVOA_L
ClientSampleId :
ICVVL030819

Tot Ion: 83 Resp: 1469035
Ion Ratio Lower Upper
83 100
85 64.9 51.0 76.6

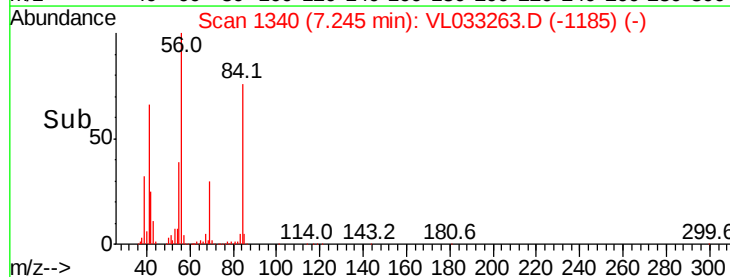
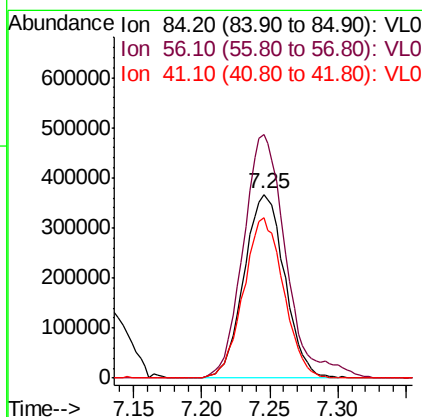
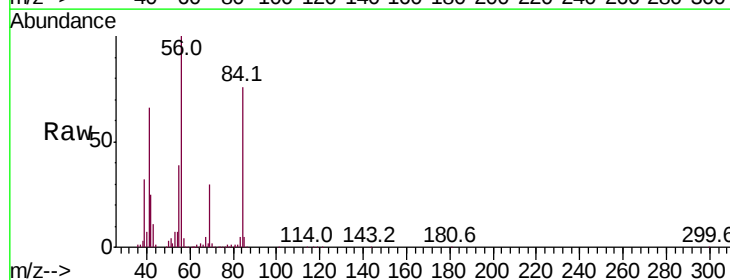
Manual Integrations
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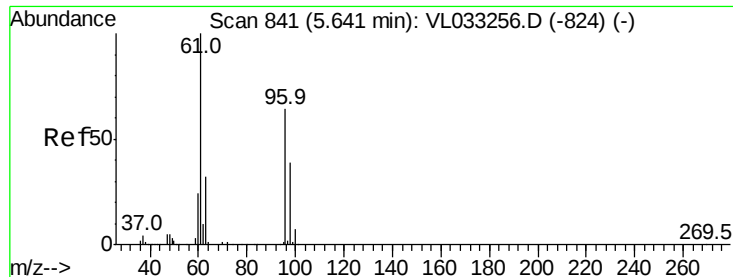
MMDadoda
3/11/2019 10:10:50 AM



#30
Cyclohexane
Concen: 9.790 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Tgt Ion: 84 Resp: 759851
Ion Ratio Lower Upper
84 100
56 139.3 113.4 170.2
41 85.7 70.2 105.4





#31

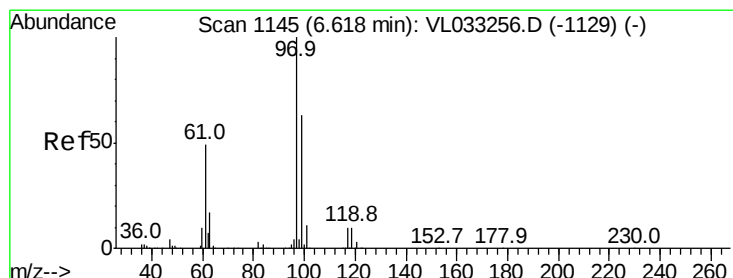
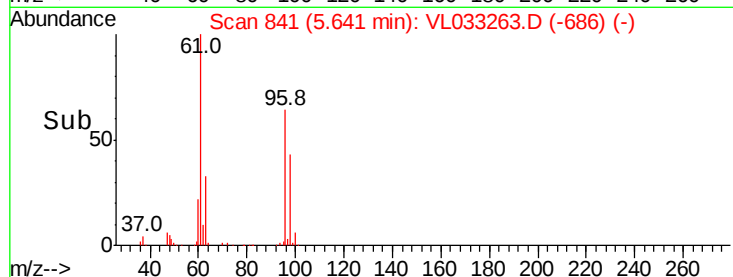
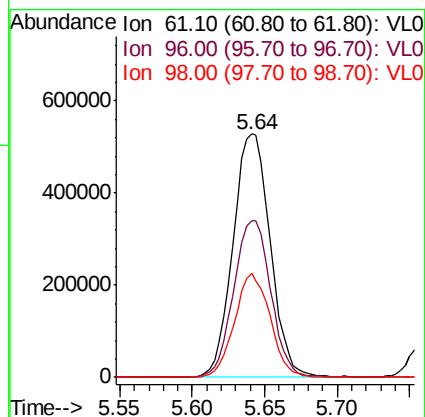
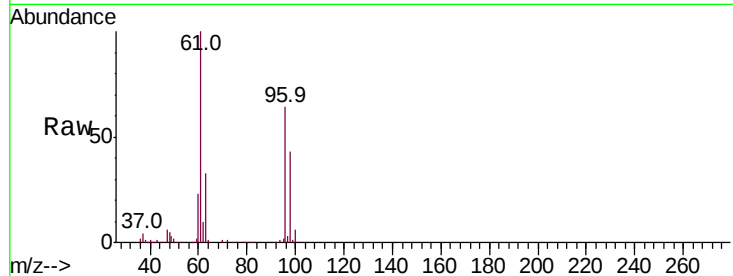
cis-1,2-Dichloroethene
Concen: 9.938 ppbv
RT: 5.64 min Scan# 841
Delta R.T. -0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Instrument :
MSVOA_L
ClientSampleId :
ICVVL030819

Tot Ion	Ratio	Lower	Upper
61	100		
96	64.3	51.2	76.8
98	42.5	30.8	46.2

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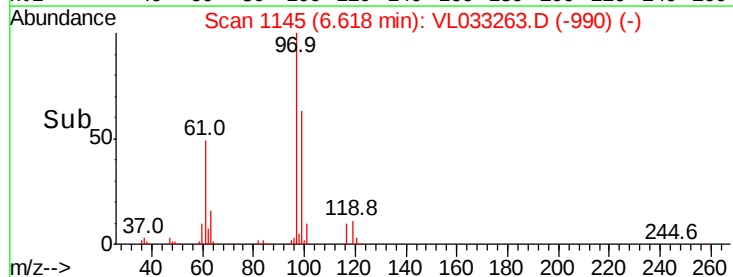
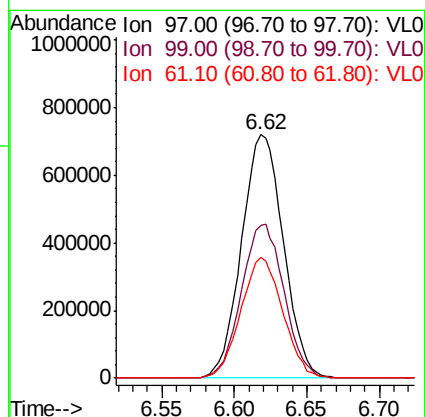
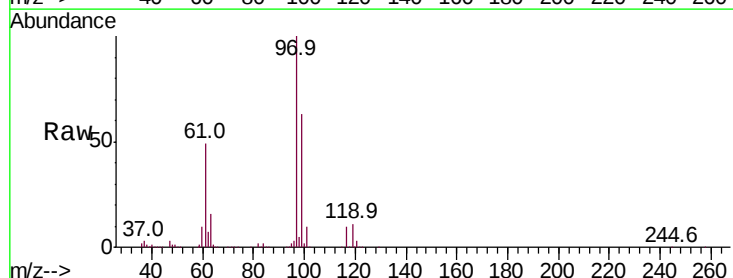
MMDadoda
3/11/2019 10:10:50 AM

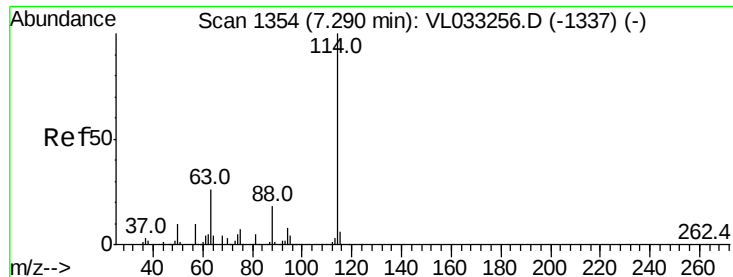


#32

1,1,1-Trichloroethane
Concen: 10.034 ppbv
RT: 6.62 min Scan# 1145
Delta R.T. -0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.6	77.4
61	49.5	40.8	61.2





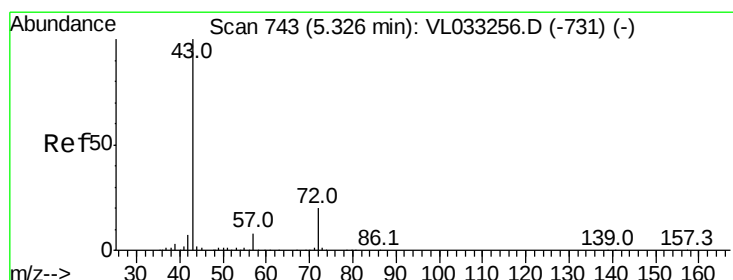
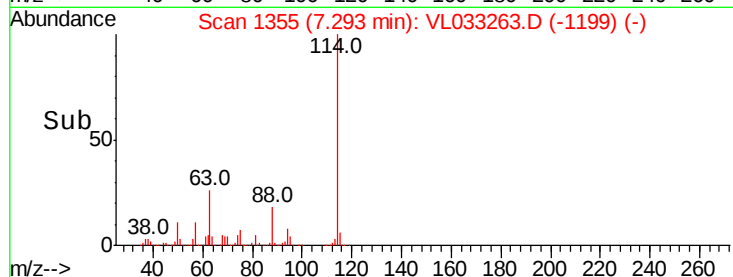
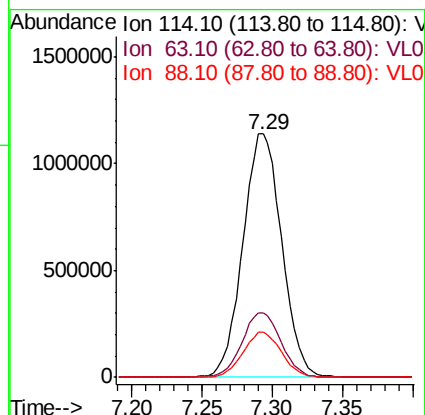
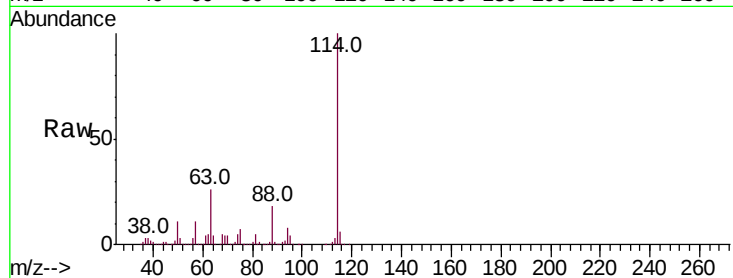
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. 0.00 min
 Lab File: VL033263.D
 Acq: 8 Mar 2019 17:14

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL030819

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.8	22.2	33.2
88	18.4	14.6	22.0

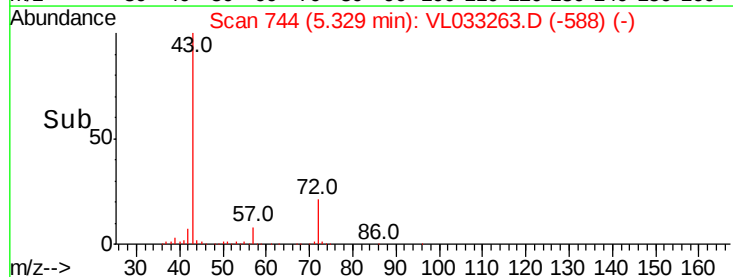
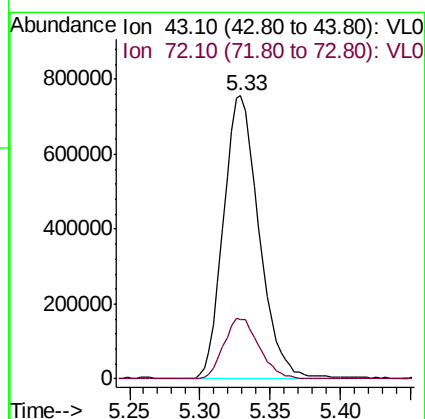
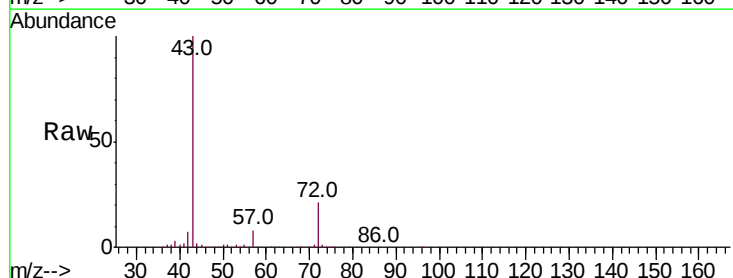
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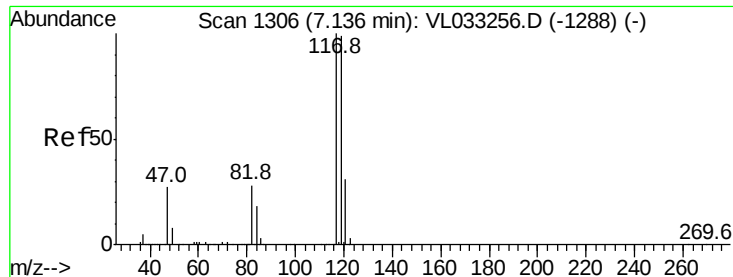
MMDadoda
 3/11/2019 10:10:50 AM



#34
 2-Butanone
 Concen: 9.976 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. 0.00 min
 Lab File: VL033263.D
 Acq: 8 Mar 2019 17:14

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.7	16.9	25.3





#35

Carbon Tetrachloride

Concen: 10.141 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. -0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

Instrument :

MSVOA_L

ClientSampleId :

ICVVL030819

Tot Ion:117 Resp: 1514243

Ion Ratio Lower Upper

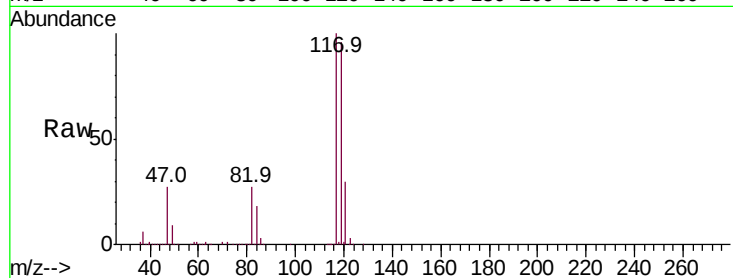
117 100

119 95.8 79.0 118.6

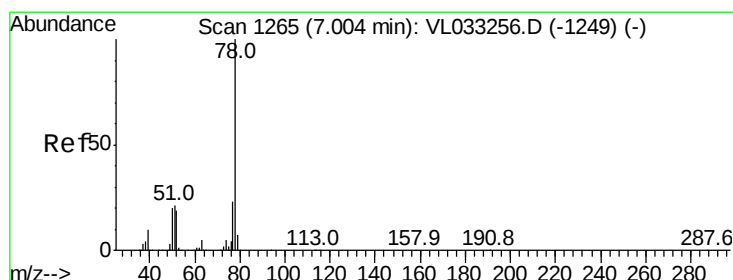
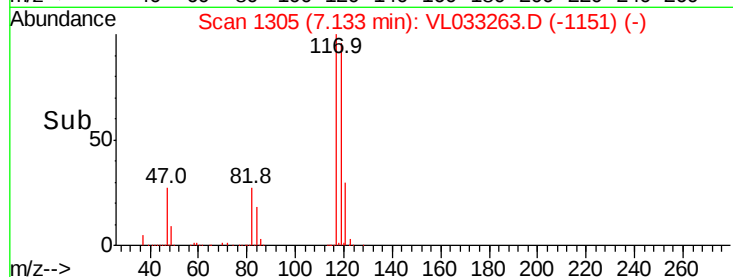
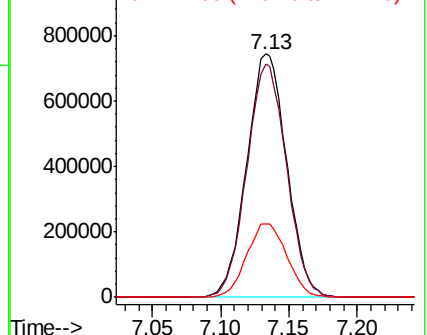
121 30.0 24.7 37.1

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3/11/2019 10:10:50 AM



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: 10.149 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

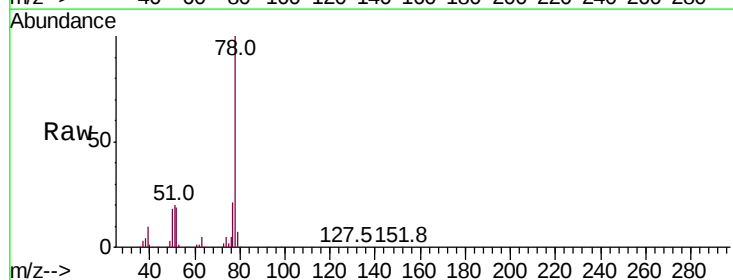
Tgt Ion: 78 Resp: 1922089

Ion Ratio Lower Upper

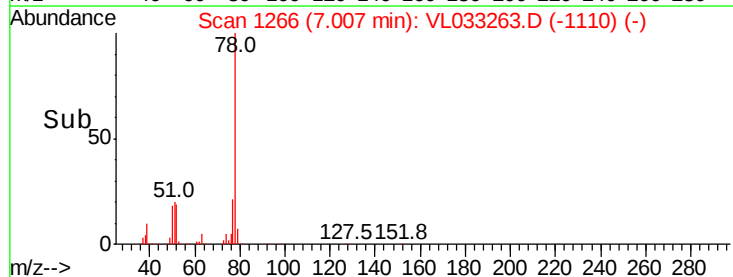
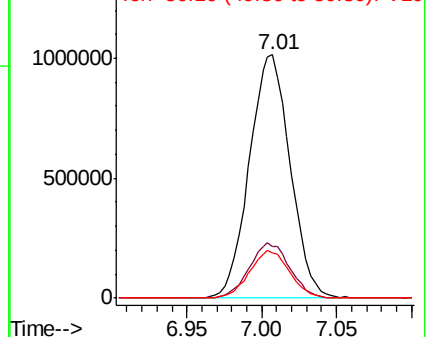
78 100

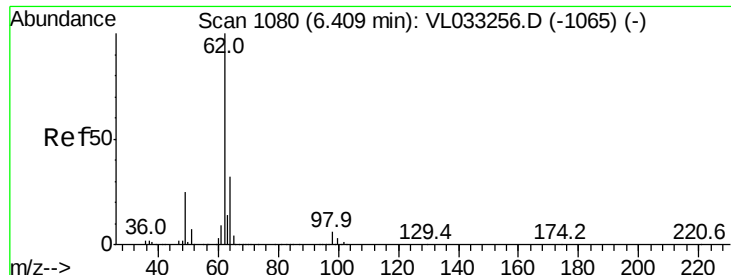
77 21.2 18.2 27.2

50 18.4 16.2 24.2



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





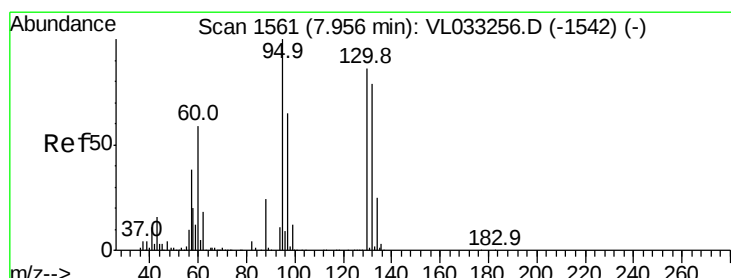
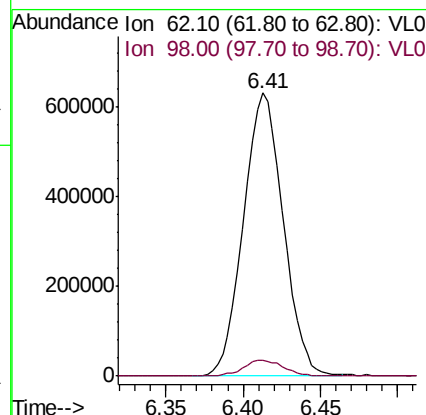
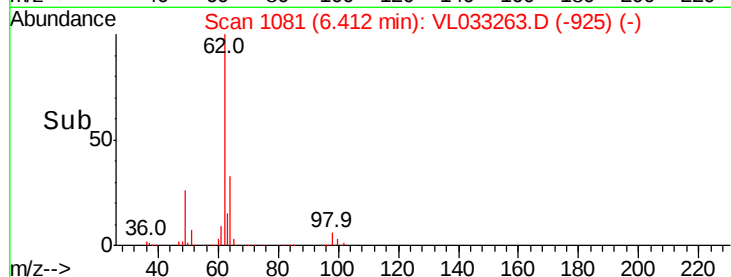
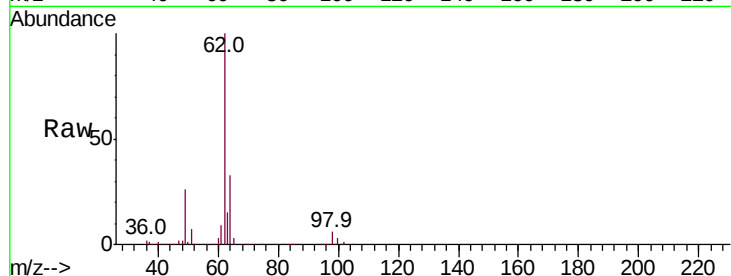
#37
1,2-Dichloroethane
Concen: 9.245 ppbv
RT: 6.41 min Scan# 1081
Delta R.T. 0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Instrument :
MSVOA_L
ClientSampleId :
ICVVL030819

Tot Ion: 62 Resp: 1127384
Ion Ratio Lower Upper
62 100
98 5.8 4.5 6.7

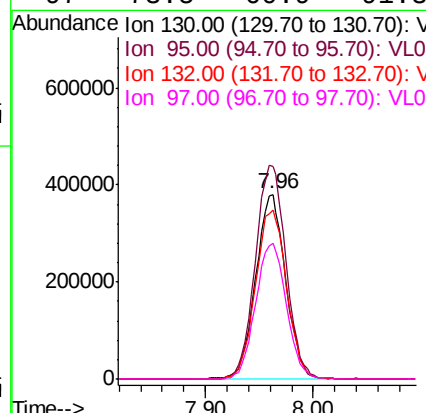
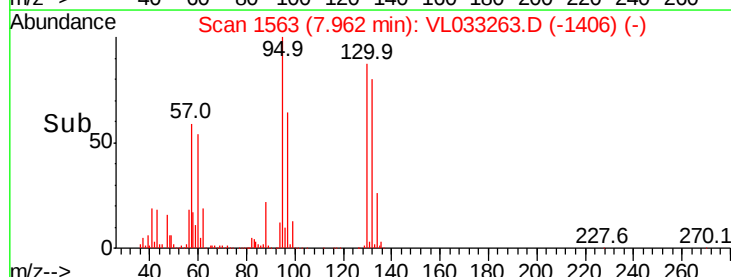
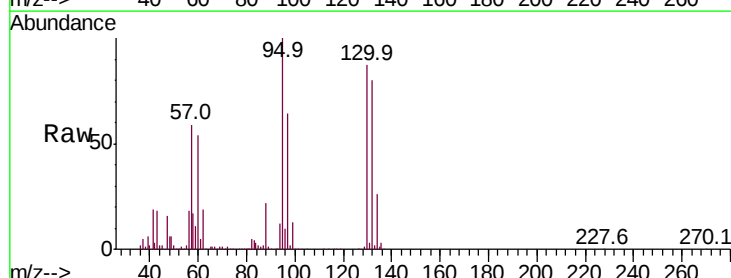
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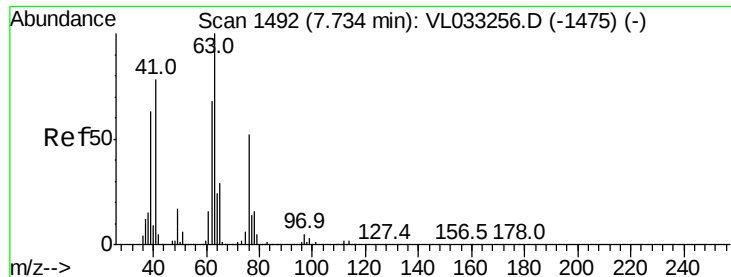
MMDadoda
3/11/2019 10:10:50 AM



#38
Trichloroethene
Concen: 9.967 ppbv
RT: 7.96 min Scan# 1563
Delta R.T. 0.01 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Tgt Ion: 130 Resp: 732492
Ion Ratio Lower Upper
130 100
95 114.6 93.4 140.0
132 91.3 74.0 111.0
97 73.5 60.9 91.3





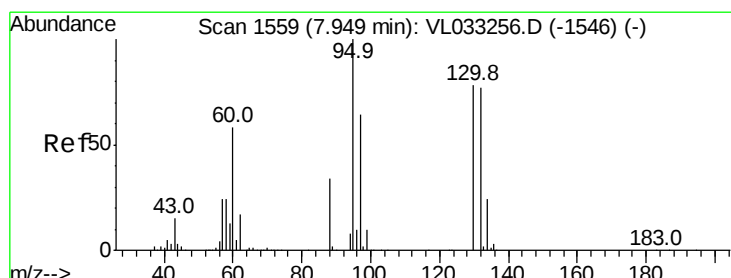
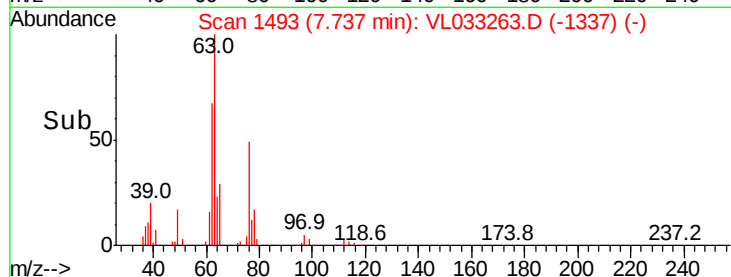
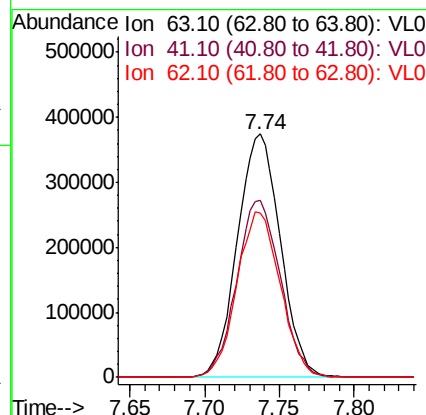
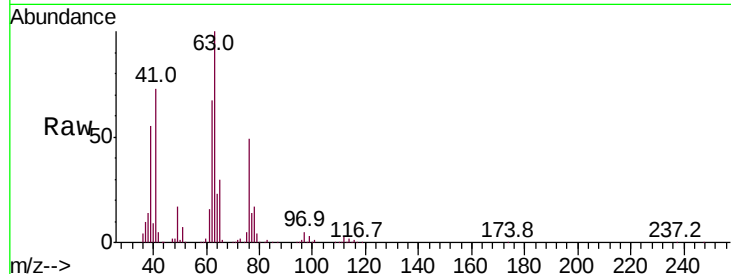
#39
 1,2-Dichloropropane
 Concen: 10.034 ppbv
 RT: 7.74 min Scan# 1493
 Delta R.T. 0.00 min
 Lab File: VL033263.D
 Acq: 8 Mar 2019 17:14

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL030819

Tot Ion	Ratio	Lower	Upper
63	100		
41	72.7	62.6	94.0
62	67.3	54.6	81.8

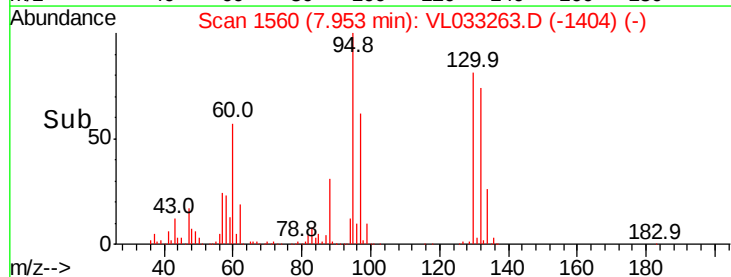
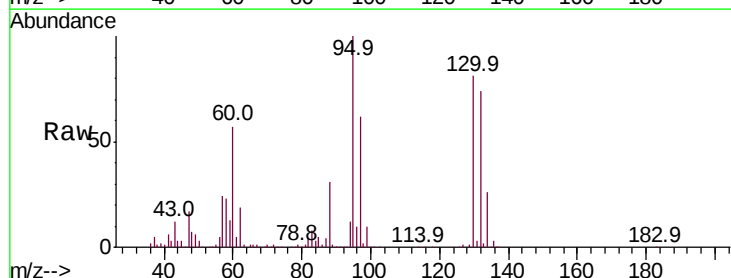
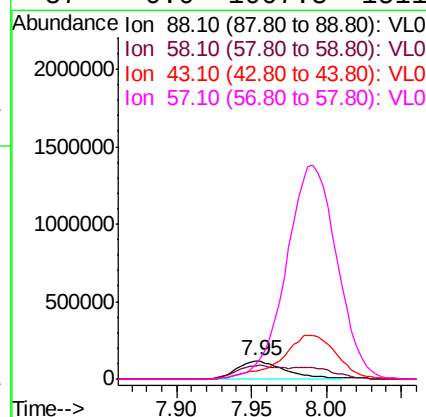
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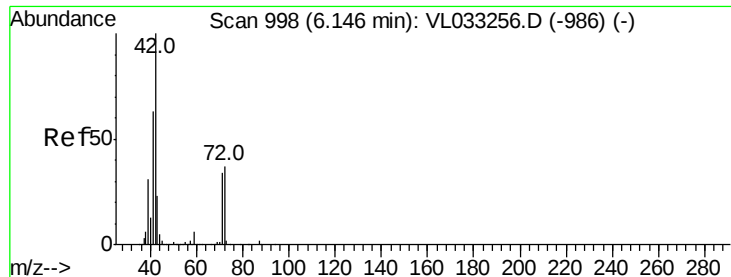
MMDadoda
 3/11/2019 10:10:50 AM



#40
 1,4-Dioxane
 Concen: 9.411 ppbv
 RT: 7.95 min Scan# 1560
 Delta R.T. 0.00 min
 Lab File: VL033263.D
 Acq: 8 Mar 2019 17:14

Tgt Ion	Ratio	Lower	Upper
88	100		
58	130.1	108.4	162.6
43	0.0	232.3	348.5#
57	0.0	1007.8	1511.8#





#41

Tetrahydrofuran

Concen: 10.379 ppbv

RT: 6.15 min Scan# 998

Delta R.T. -0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

Instrument :

MSVOA_L

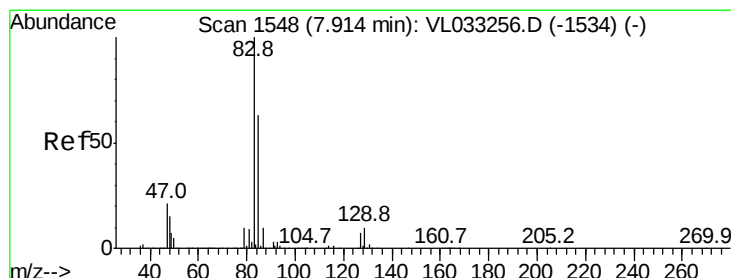
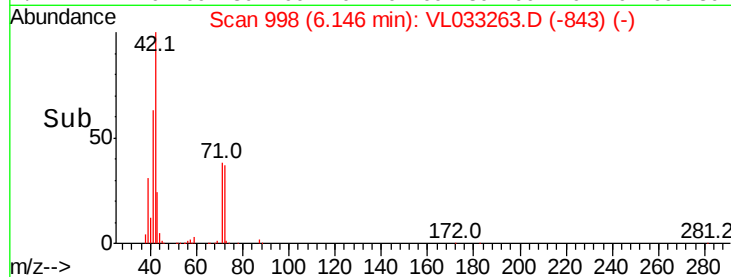
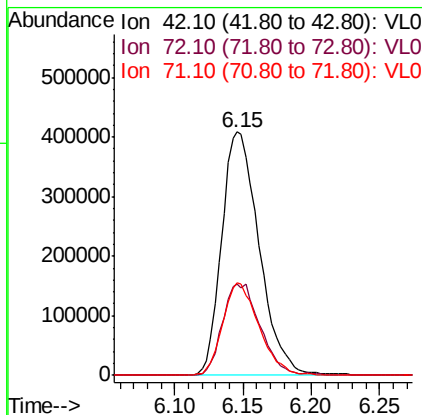
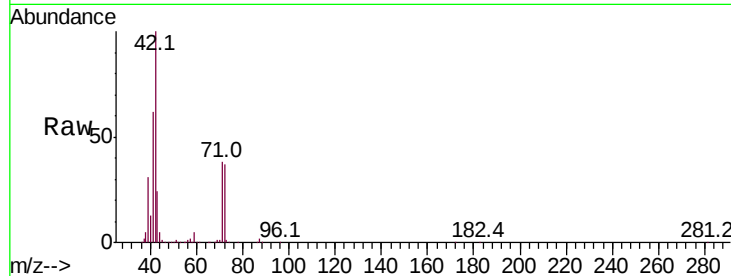
ClientSampleId :

ICVVL030819

Tot Ion:	42	Resp:	779918
Ion Ratio	Lower	Upper	
42	100		
72	38.1	30.2	45.2
71	37.0	29.0	43.6

Manual Integrations
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3/11/2019 10:10:50 AM



#42

Bromodichloromethane

Concen: 10.144 ppbv

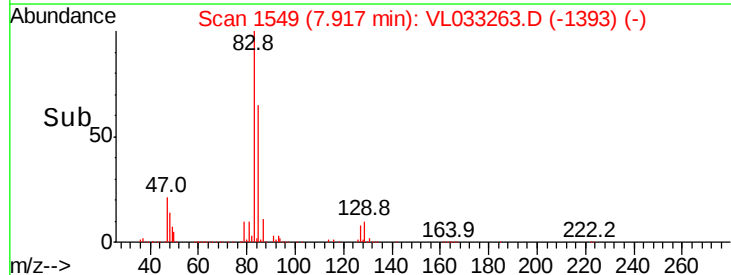
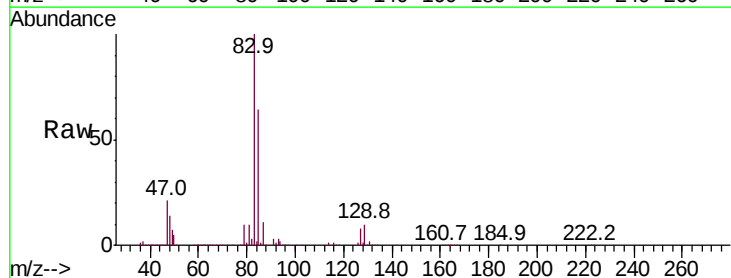
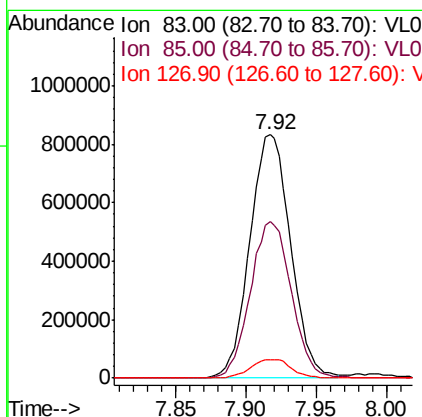
RT: 7.92 min Scan# 1549

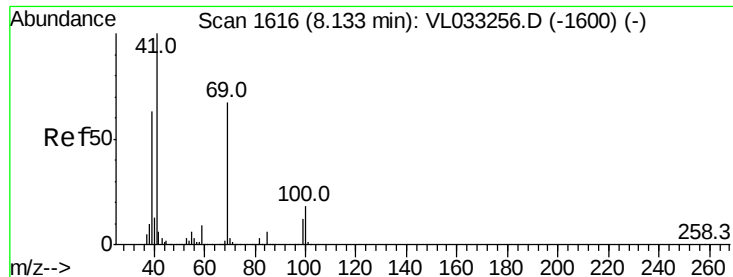
Delta R.T. 0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

Tgt Ion:	83	Resp:	1685008
Ion Ratio	Lower	Upper	
83	100		
85	64.5	50.1	75.1
127	7.6	5.9	8.9





#43

Methyl Methacrylate

Concen: 10.512 ppbv

RT: 8.14 min Scan# 1617

Delta R.T. 0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

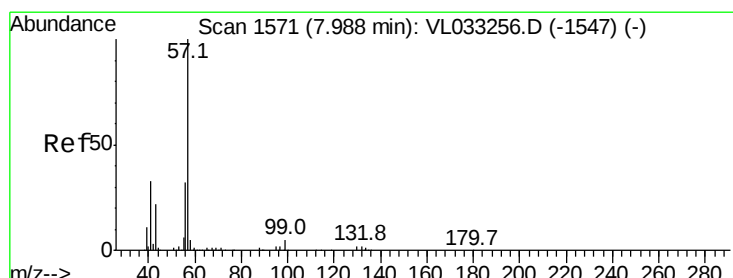
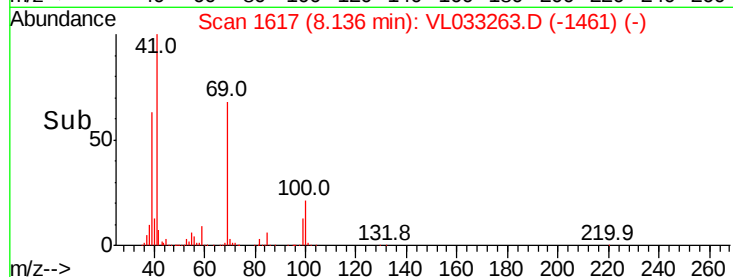
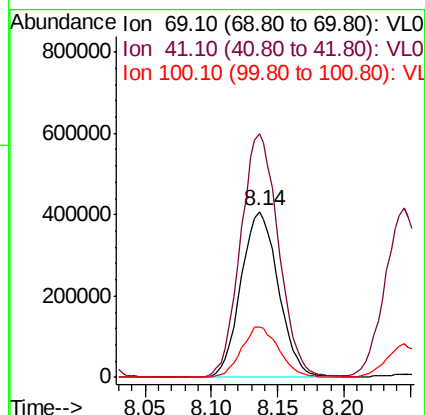
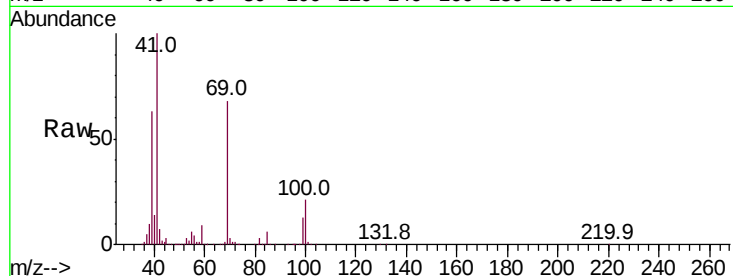
Instrument :
MSVOA_L

ClientSampleId :
ICVVL030819

Tot Ion	Ratio	Lower	Upper
69	100		
41	148.7	120.3	180.5
100	30.4	23.5	35.3

Manual Integrations
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MMDadoda
3/11/2019 10:10:50 AM



#44

2,2,4-Trimethylpentane

Concen: 9.637 ppbv

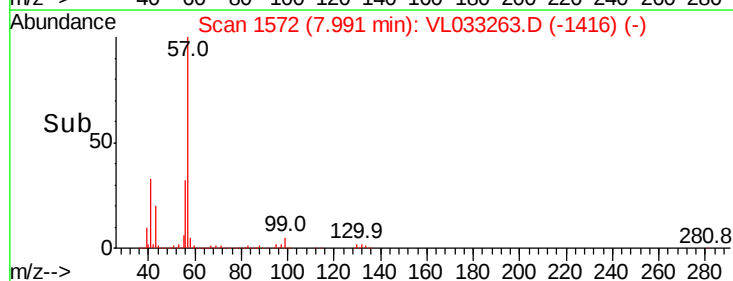
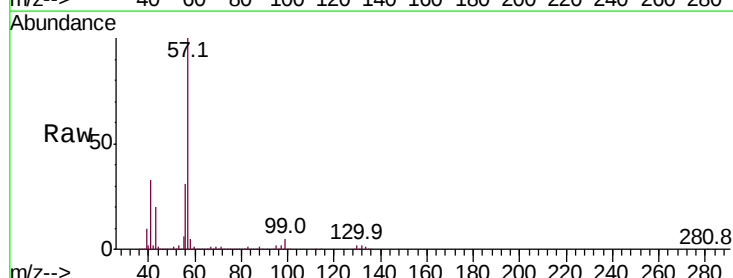
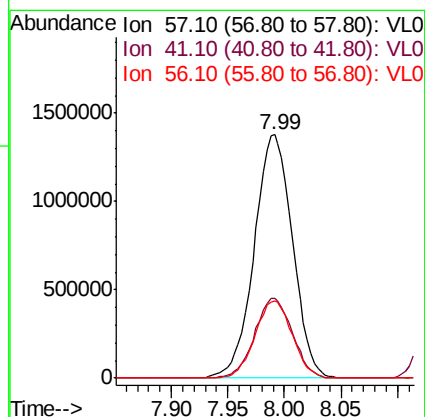
RT: 7.99 min Scan# 1572

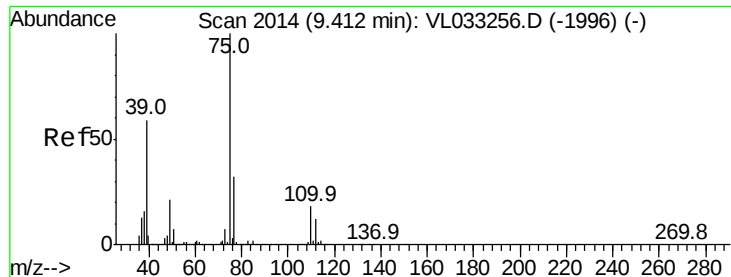
Delta R.T. 0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.4	26.4	39.6
56	30.9	25.1	37.7





#45

t-1,3-Dichloropropene

Concen: 11.400 ppbv

RT: 9.42 min Scan# 2015

Delta R.T. 0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

Tot Ion: 75 Resp: 1052008

Ion Ratio Lower Upper

75 100

77 30.3 25.4 38.0

Instrument :

MSVOA_L

ClientSampleId :

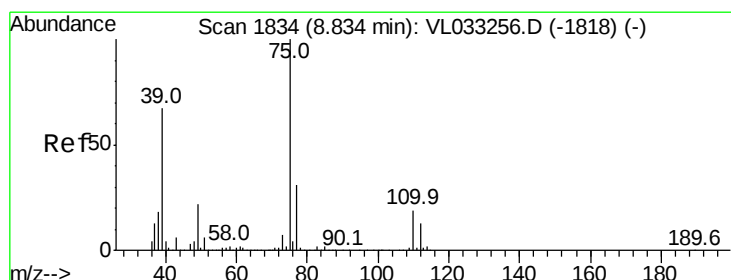
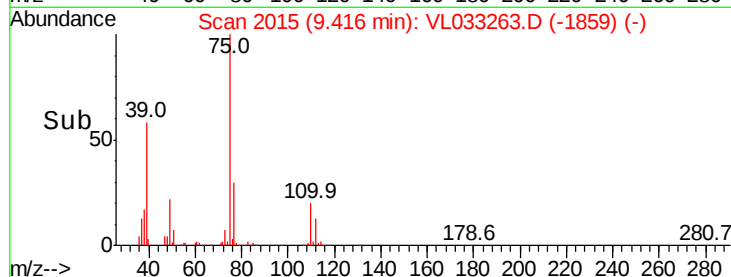
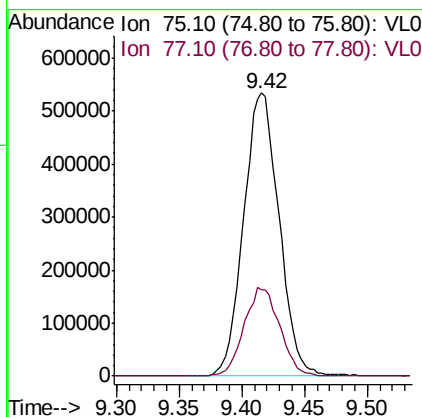
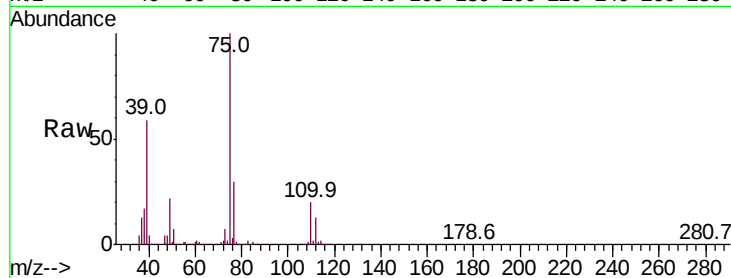
ICVVL030819

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#46

cis-1,3-Dichloropropene

Concen: 10.968 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. -0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

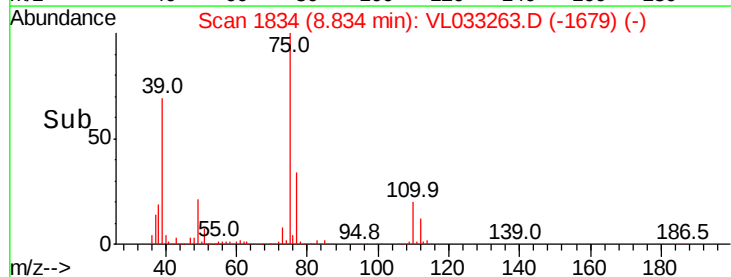
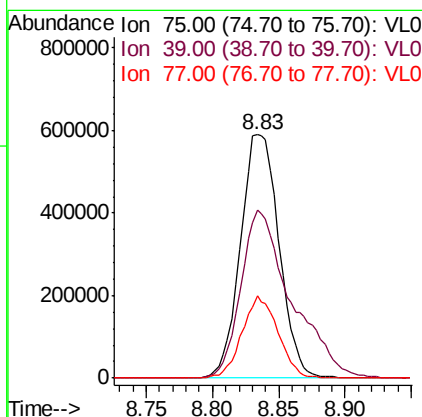
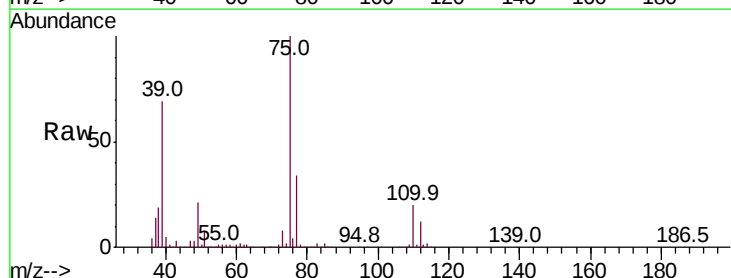
Tgt Ion: 75 Resp: 1191272

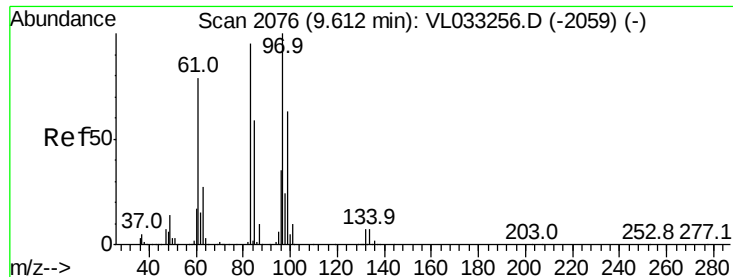
Ion Ratio Lower Upper

75 100

39 69.3 53.8 80.6

77 33.8 25.0 37.6





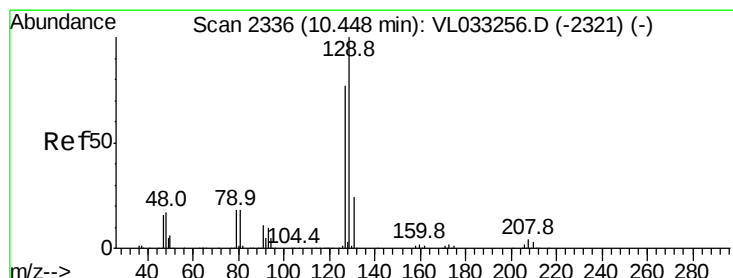
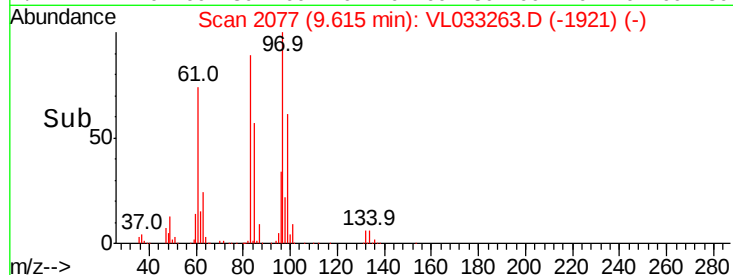
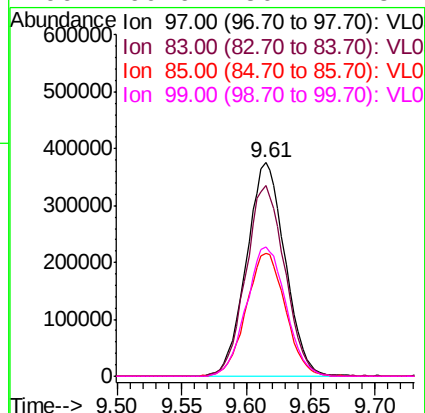
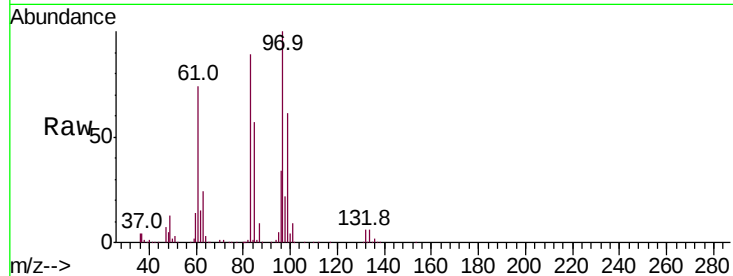
#47
 1,1,2-Trichloroethane
 Concen: 9.811 ppbv
 RT: 9.61 min Scan# 2077
 Delta R.T. 0.00 min
 Lab File: VL033263.D
 Acq: 8 Mar 2019 17:14

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL030819

Tot Ion	97	Resp	782997
Ion Ratio	Lower	Upper	
97	100		
83	89.0	75.8	113.8
85	57.4	47.5	71.3
99	60.6	50.2	75.2

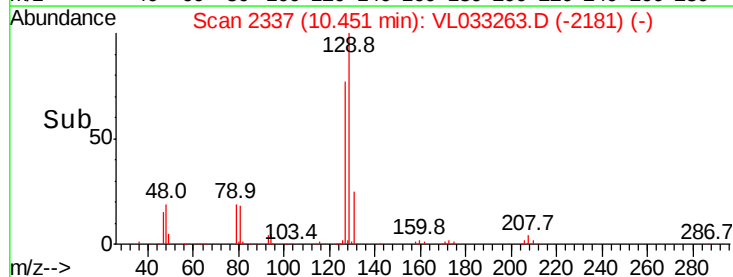
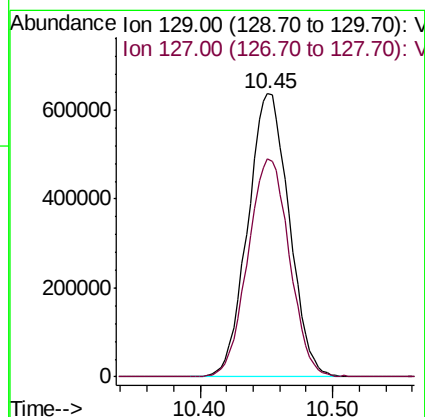
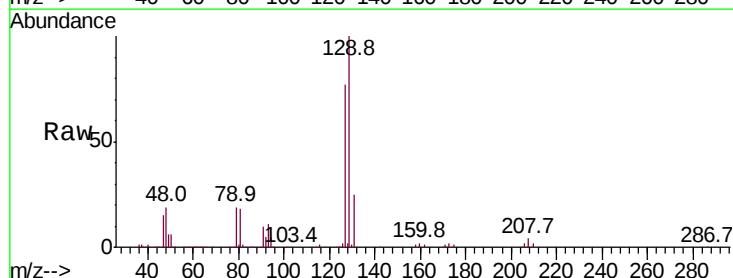
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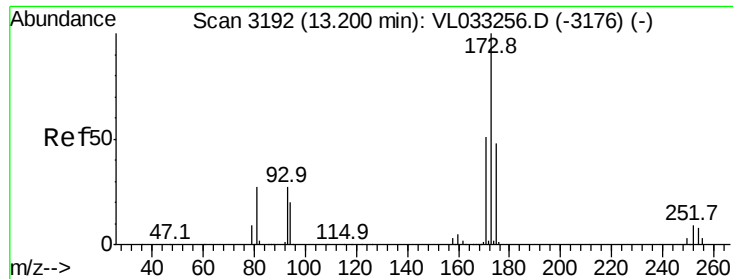
MMDadoda
 3/11/2019 10:10:50 AM



#48
 Dibromochloromethane
 Concen: 10.536 ppbv
 RT: 10.45 min Scan# 2337
 Delta R.T. 0.00 min
 Lab File: VL033263.D
 Acq: 8 Mar 2019 17:14

Tgt Ion	129	Resp	1378577
Ion Ratio	Lower	Upper	
129	100		
127	77.5	39.4	118.2





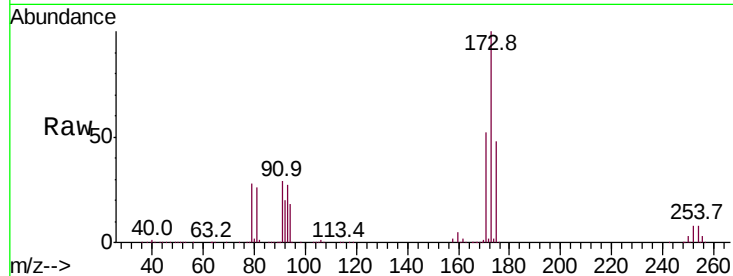
#49
Bromoform
Concen: 10.236 ppbv
RT: 13.20 min Scan# 3193
Delta R.T. 0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Instrument :
MSVOA_L
ClientSampleId :
ICVVL030819

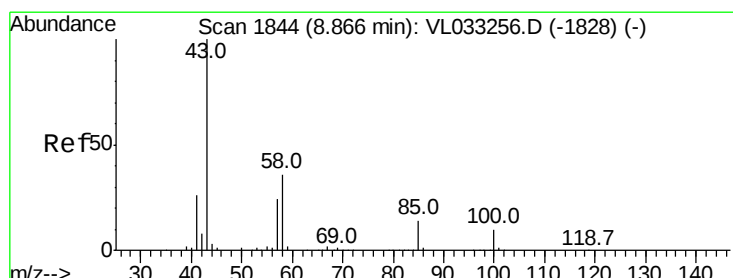
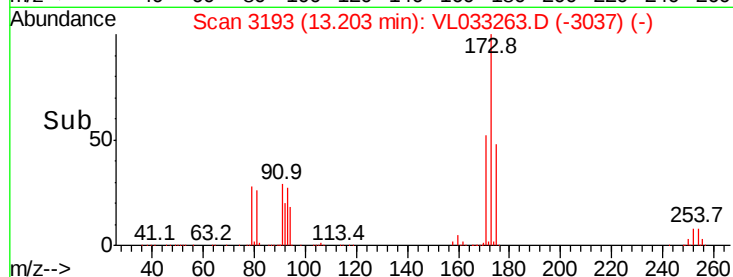
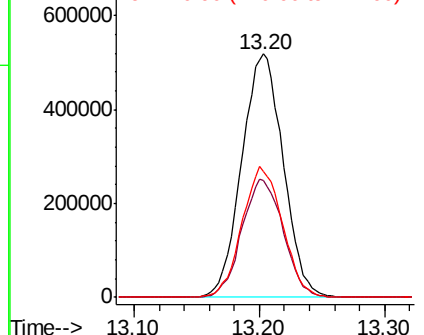
Tot Ion:173 Resp: 1191908
Ion Ratio Lower Upper
173 100
175 48.4 38.8 58.2
171 52.5 41.5 62.3

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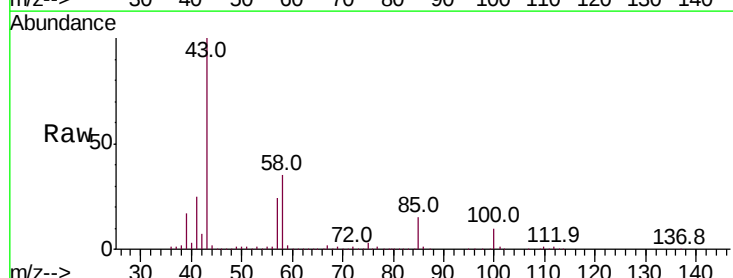


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

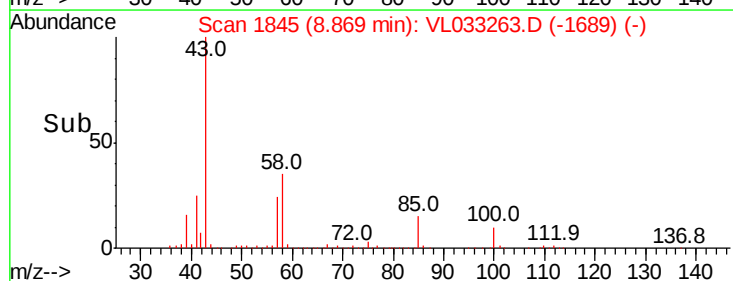
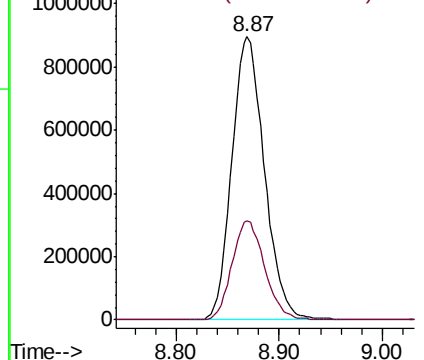


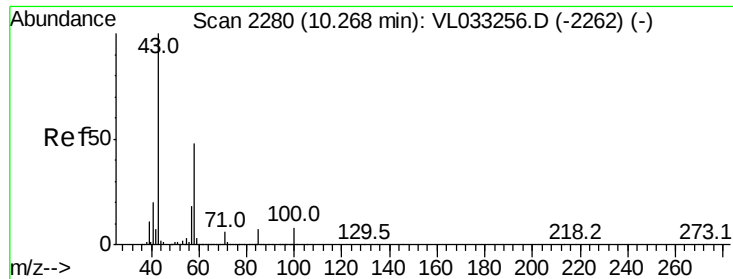
#50
4-Methyl-2-Pentanone
Concen: 9.799 ppbv
RT: 8.87 min Scan# 1845
Delta R.T. 0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Tgt Ion: 43 Resp: 1971832
Ion Ratio Lower Upper
43 100
58 35.2 28.1 42.1



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





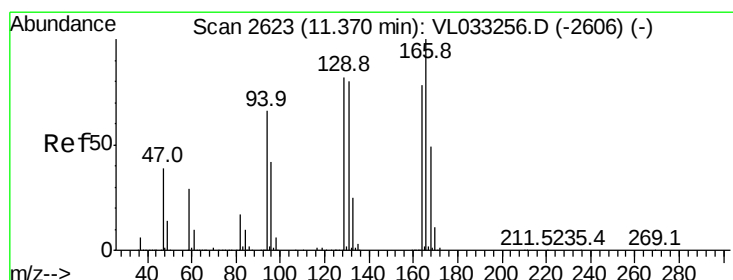
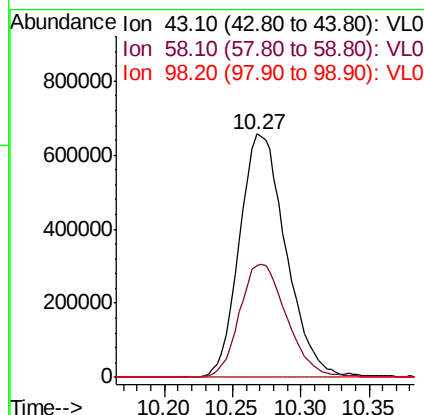
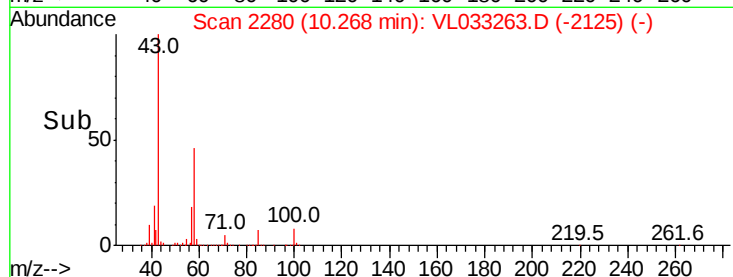
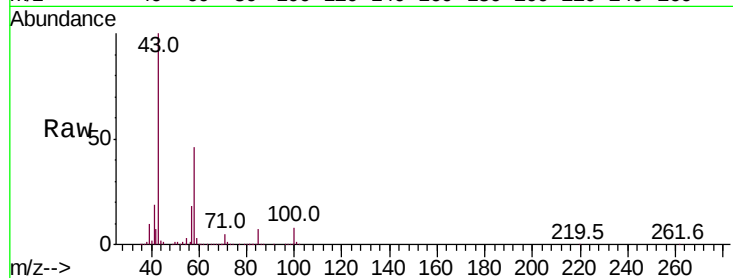
#51
2-Hexanone
Concen: 10.309 ppbv
RT: 10.27 min Scan# 2280
Delta R.T. -0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Instrument :
MSVOA_L
ClientSampleId :
ICVVL030819

Tot Ion: 43 Resp: 1546345
Ion Ratio Lower Upper
43 100
58 47.9 38.1 57.1
98 0.1 0.2 0.4#

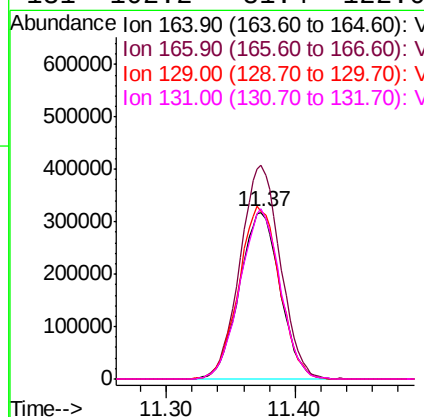
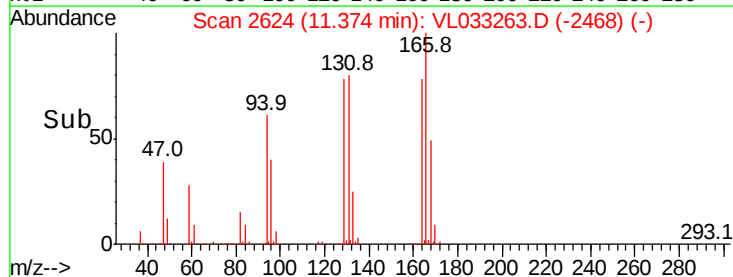
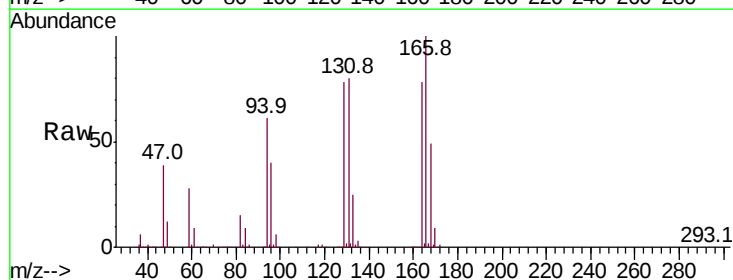
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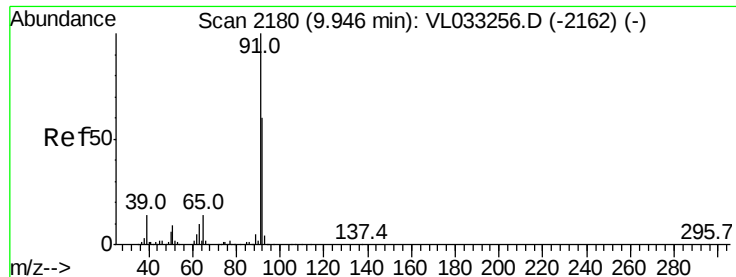
MMDadoda
3/11/2019 10:10:50 AM



#52
Tetrachloroethene
Concen: 9.855 ppbv
RT: 11.37 min Scan# 2624
Delta R.T. 0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Tgt Ion: 164 Resp: 695439
Ion Ratio Lower Upper
164 100
166 128.1 102.0 153.0
129 100.3 83.2 124.8
131 102.2 81.4 122.0





#53

Toluene

Concen: 10.402 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

Instrument :

MSVOA_L

ClientSampleId :

ICVVL030819

Tot Ion: 91 Resp: 2256269

Ion Ratio Lower Upper

91 100

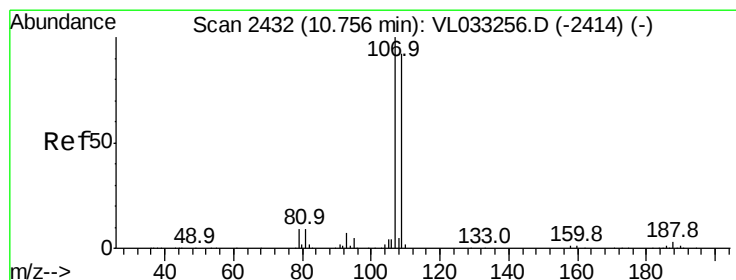
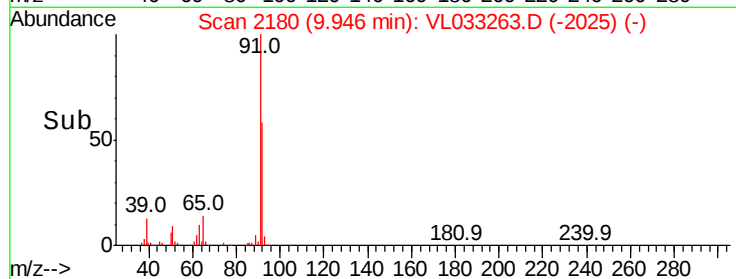
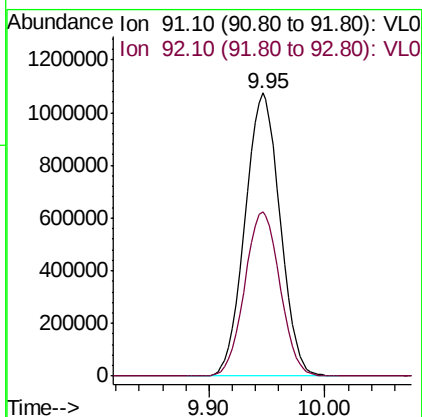
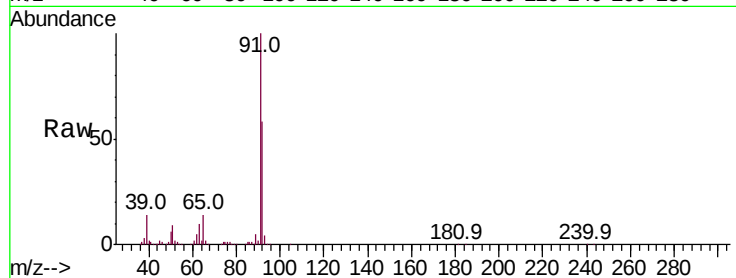
92 58.7 47.7 71.5

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3/11/2019 10:10:50 AM



#54

1,2-Dibromoethane

Concen: 9.971 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. 0.00 min

Lab File: VL033263.D

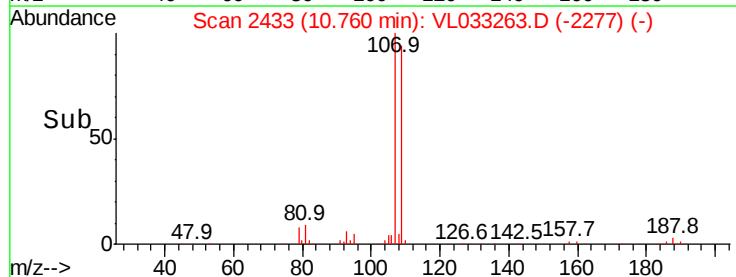
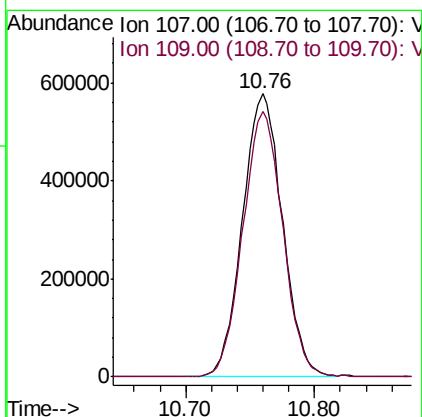
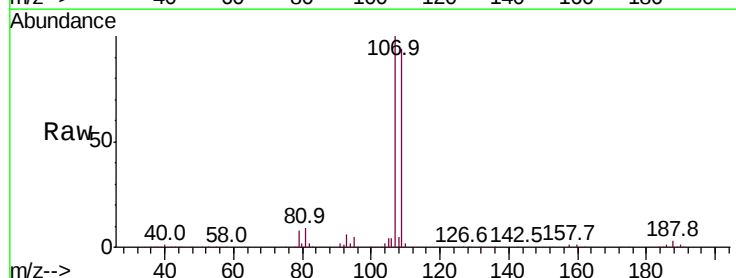
Acq: 8 Mar 2019 17:14

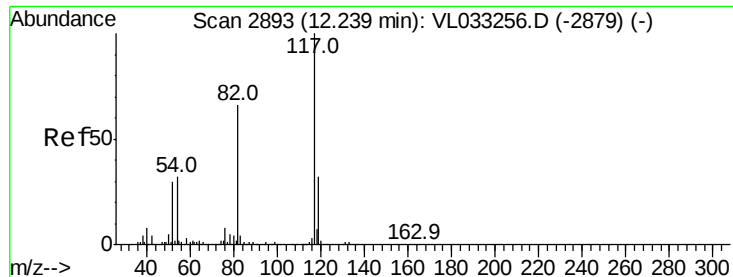
Tgt Ion: 107 Resp: 1246502

Ion Ratio Lower Upper

107 100

109 93.8 73.9 110.9





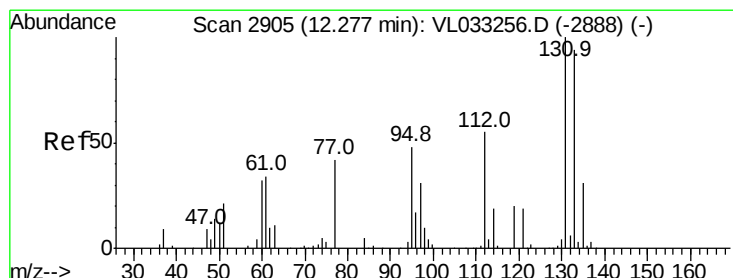
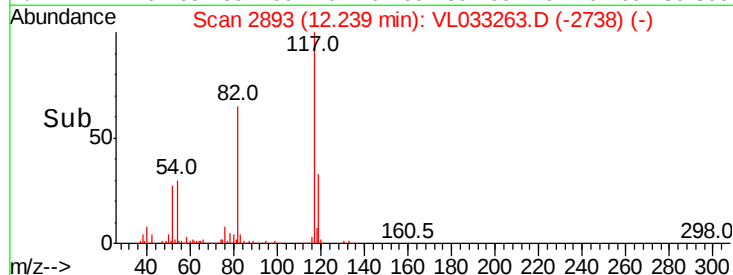
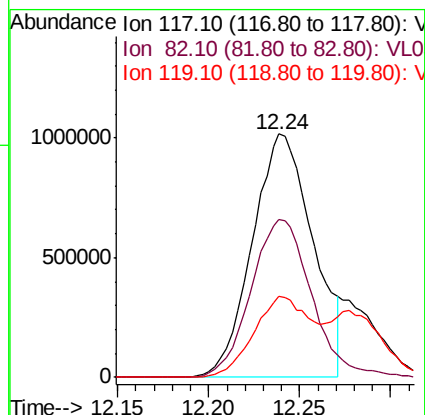
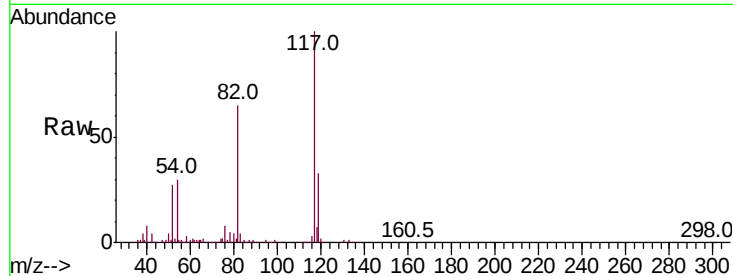
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.24 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Instrument :
MSVOA_L
ClientSampleId :
ICVVL030819

Tot Ion:117 Resp: 2357580
Ion Ratio Lower Upper
117 100
82 65.2 52.2 78.4
119 33.0 43.4 65.2#

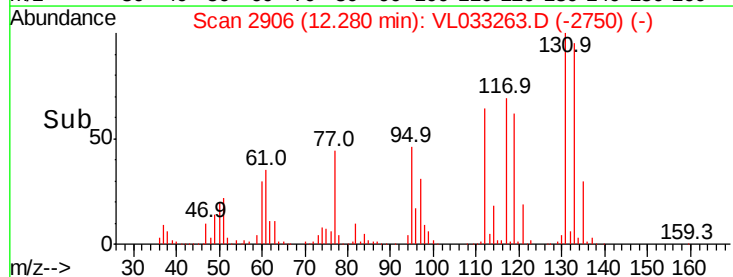
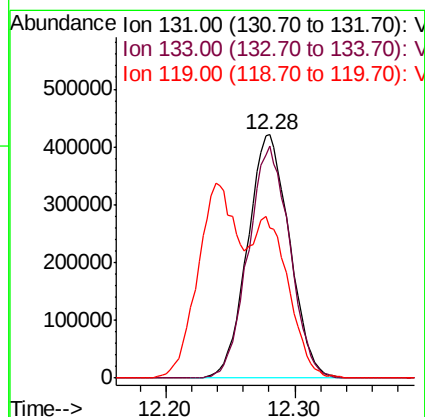
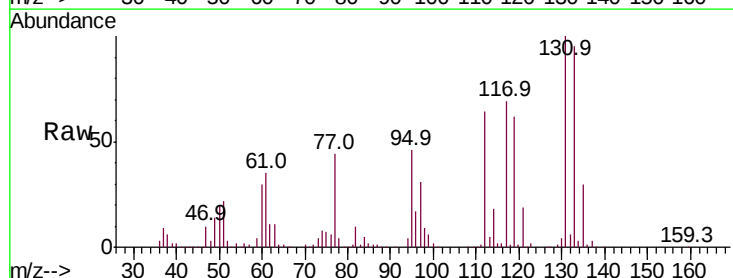
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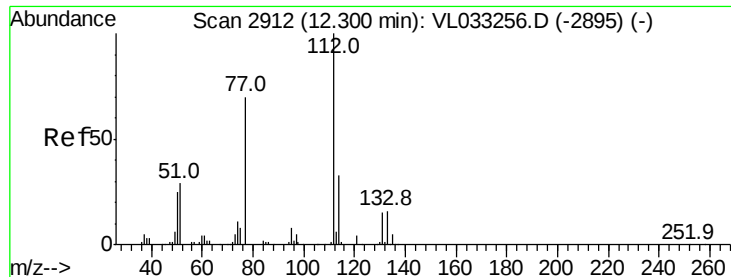
MMDadoda
3/11/2019 10:10:50 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 9.667 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. 0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Tgt Ion:131 Resp: 954024
Ion Ratio Lower Upper
131 100
133 94.2 76.3 114.5
119 50.3 109.2 163.8#





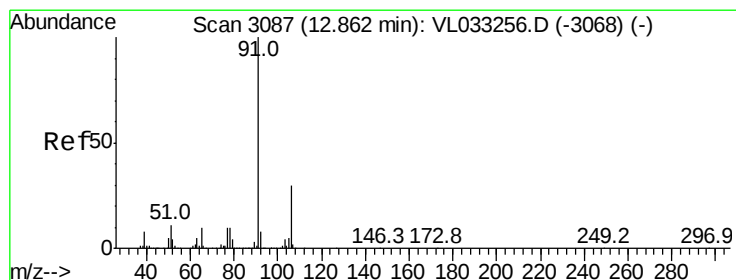
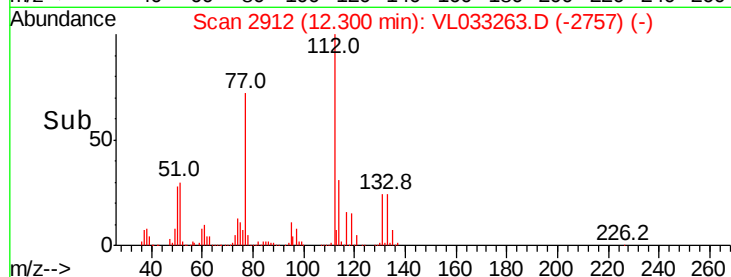
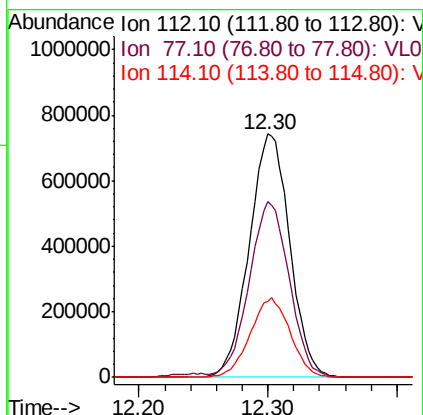
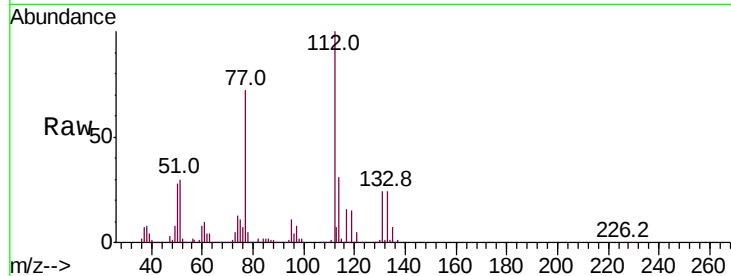
#57
Chlorobenzene
Concen: 9.389 ppbv
RT: 12.30 min Scan# 2912
Delta R.T. -0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Instrument :
MSVOA_L
ClientSampleId :
ICVVL030819

Tot Ion	Ratio	Lower	Upper
112	100		
77	71.8	56.8	85.2
114	31.1	29.5	36.1

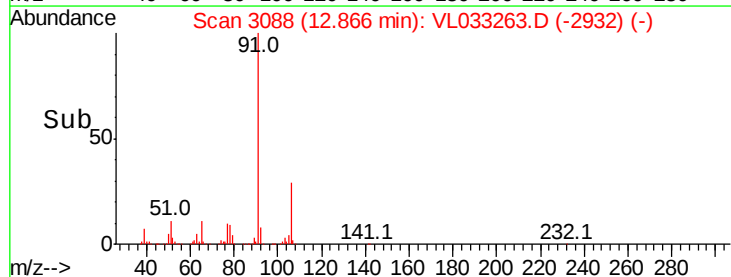
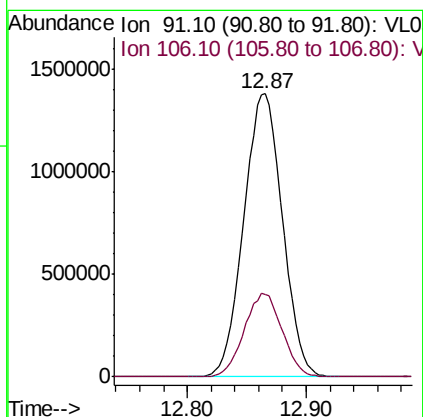
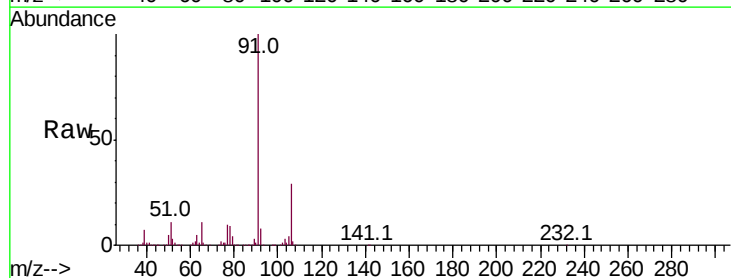
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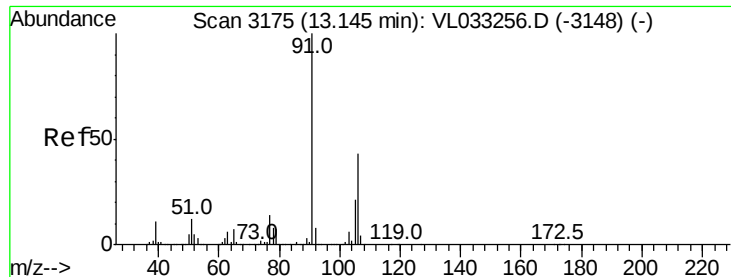
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3/11/2019 10:10:50 AM



#58
Ethyl Benzene
Concen: 9.738 ppbv
RT: 12.87 min Scan# 3088
Delta R.T. 0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.2	23.7	35.5





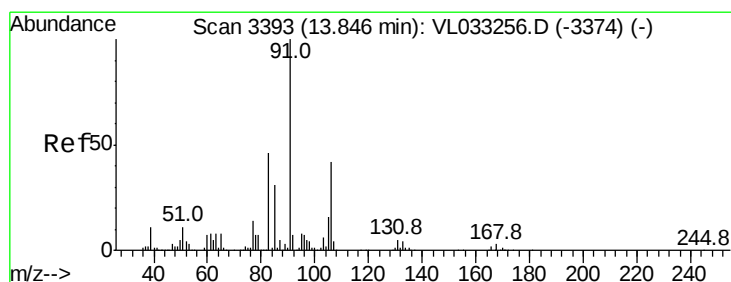
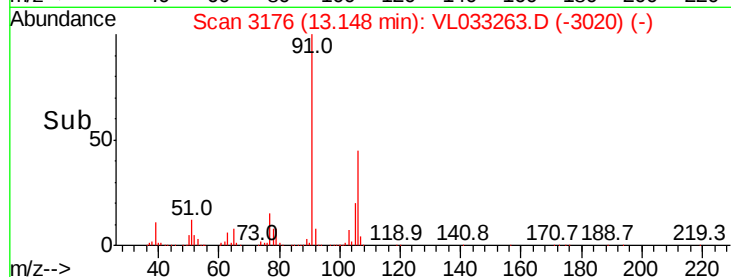
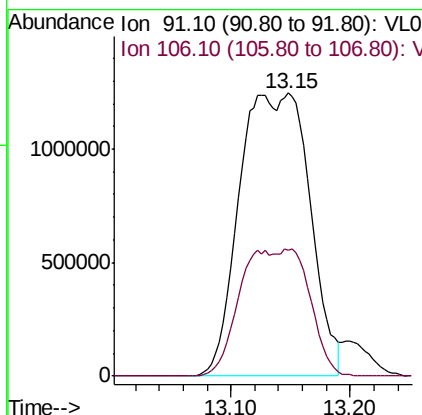
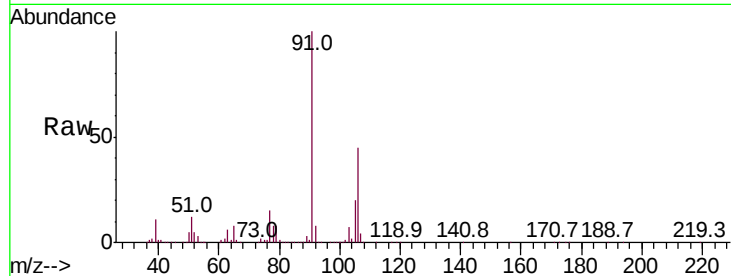
#59
m/p-Xylene
Concen: 17.612 ppbv m
RT: 13.15 min Scan# 3176
Delta R.T. 0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Instrument :
MSVOA_L
ClientSampleId :
ICVVL030819

Tot Ion: 91 Resp: 5086072
Ion Ratio Lower Upper
91 100
106 44.4 35.0 52.4

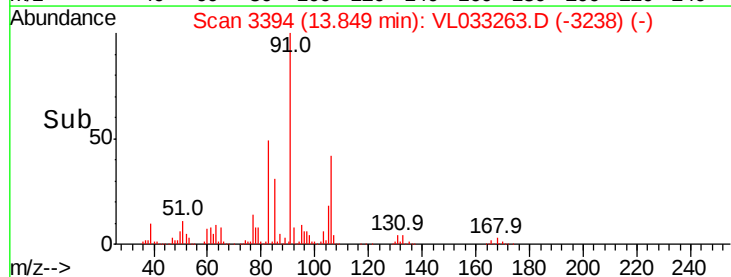
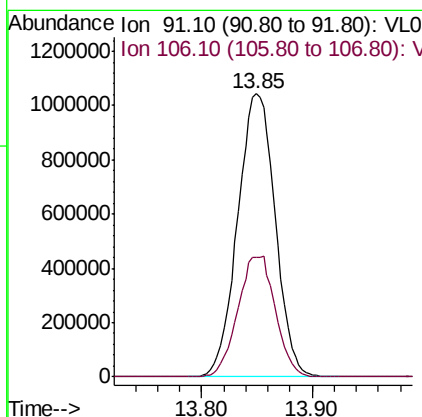
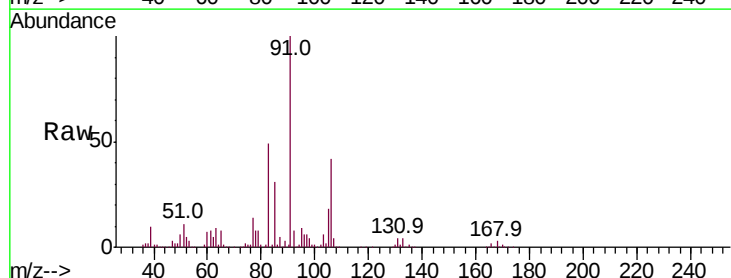
Manual Integrations
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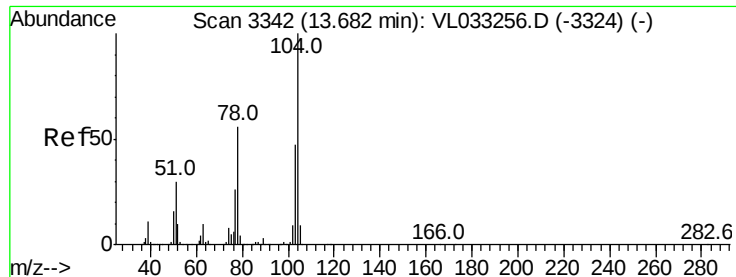
MMDadoda
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#60
o-Xylene
Concen: 8.789 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. 0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Tgt Ion: 91 Resp: 2457448
Ion Ratio Lower Upper
91 100
106 42.8 21.1 63.4





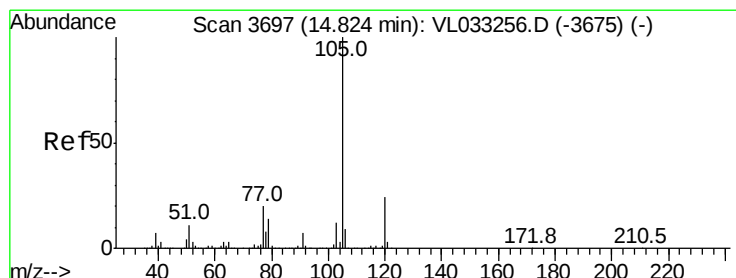
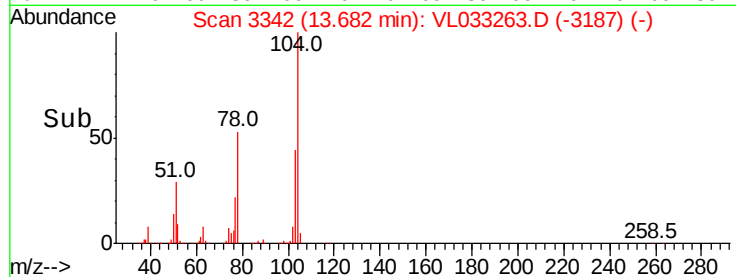
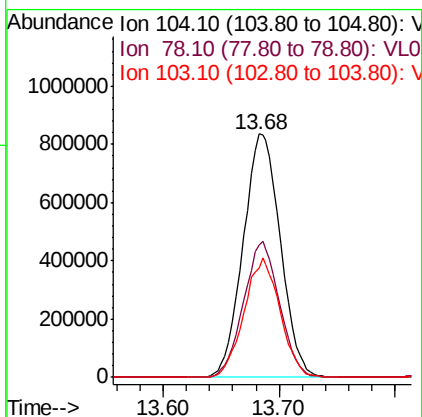
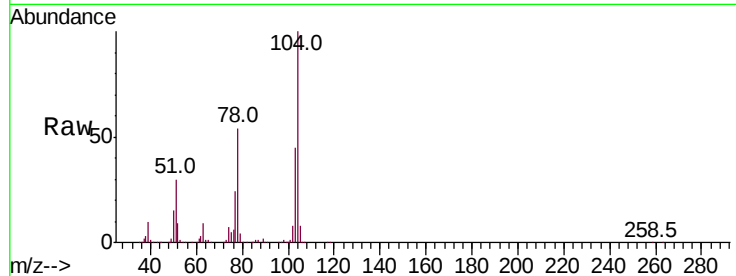
#61
Stvrene
Concen: 9.798 ppbv
RT: 13.68 min Scan# 3342
Delta R.T. -0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Instrument :
MSVOA_L
ClientSampleId :
ICVVL030819

Tot Ion	Ratio	Lower	Upper
104	100		
78	54.1	43.9	65.9
103	47.3	38.3	57.5

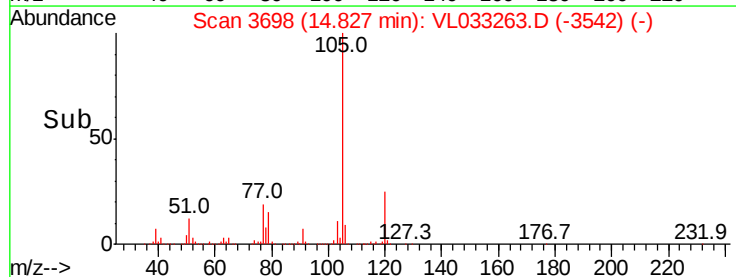
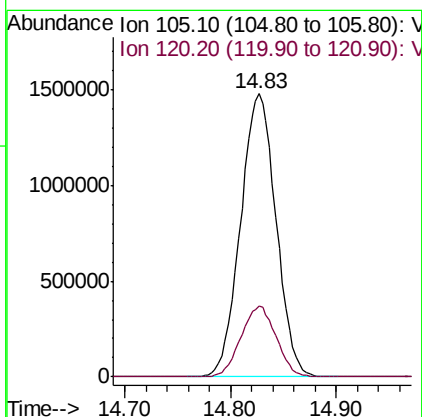
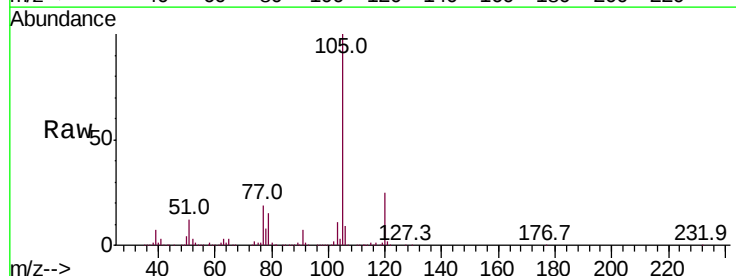
Manual Integrations
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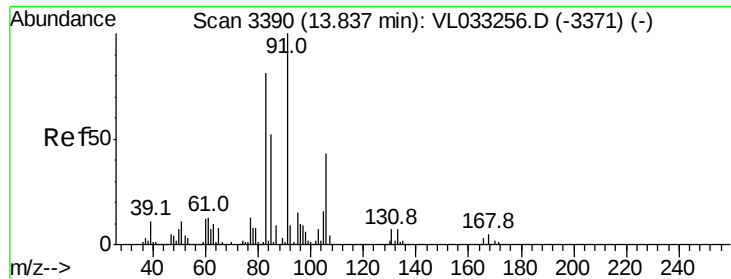
MMDadoda
3/11/2019 10:10:50 AM



#62
Isopropylbenzene
Concen: 9.256 ppbv
RT: 14.83 min Scan# 3698
Delta R.T. 0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.9	19.7	29.5





#63

1,1,2,2-Tetrachloroethane

Concen: 9.129 ppbv

RT: 13.84 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

Instrument :

MSVOA_L

ClientSampleId :

ICVVL030819

Tot Ion: 83 Resp: 1641858

Ion Ratio Lower Upper

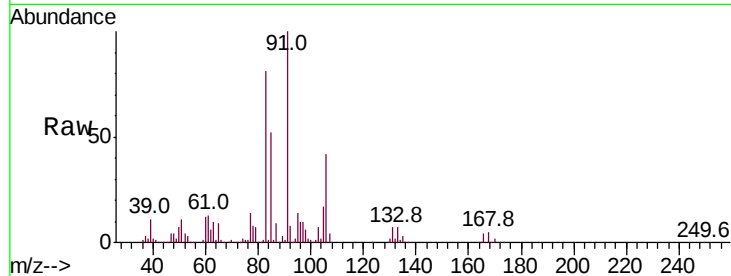
83 100

131 9.1 4.7 14.0

85 64.9 32.4 97.0

Manual Integrations
APPROVED

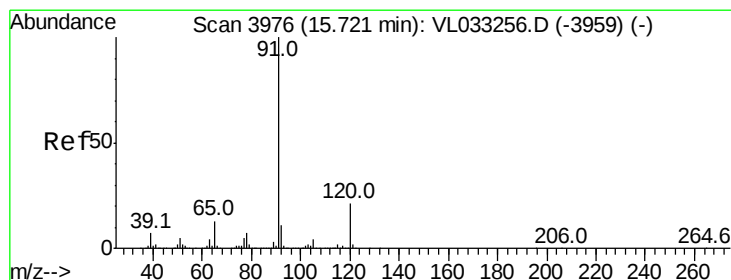
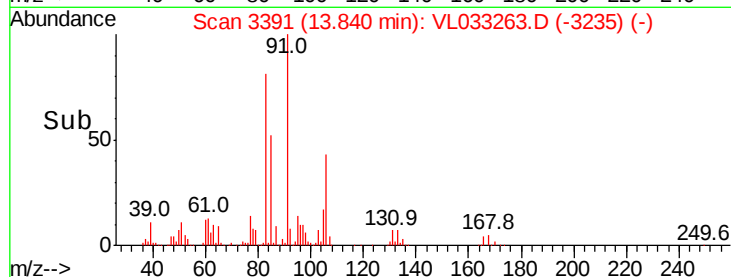
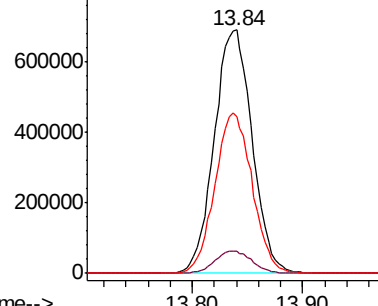
MMDadoda
3/11/2019 10:10:50 AM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 9.637 ppbv

RT: 15.72 min Scan# 3976

Delta R.T. -0.00 min

Lab File: VL033263.D

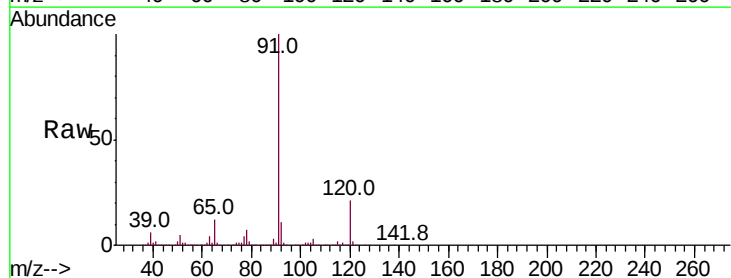
Acq: 8 Mar 2019 17:14

Tgt Ion: 120 Resp: 879901

Ion Ratio Lower Upper

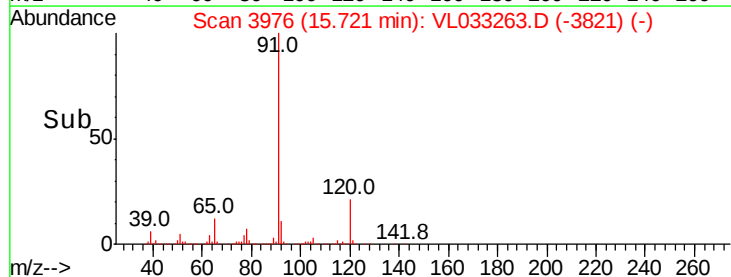
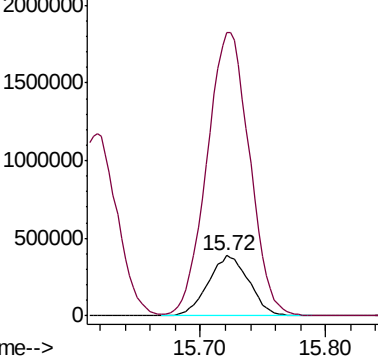
120 100

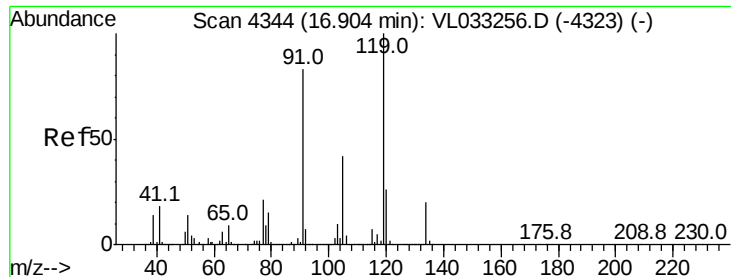
91 490.5 392.8 589.2



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 9.694 ppbv

RT: 16.91 min Scan# 4345

Delta R.T. 0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

Instrument :

MSVOA_L

ClientSampleId :

ICVVL030819

Tot Ion:119 Resp: 3044290

Ion Ratio Lower Upper

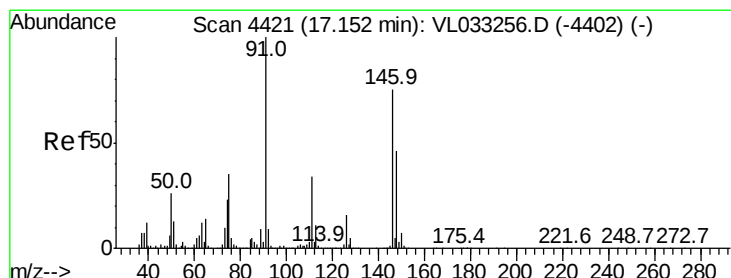
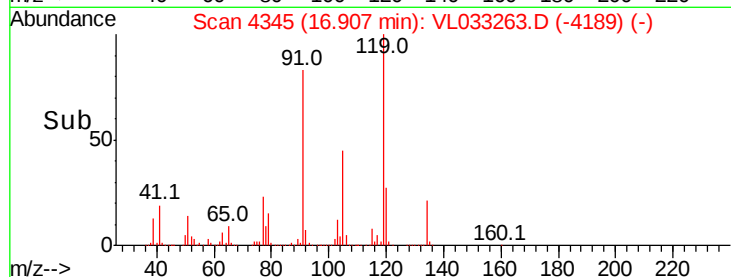
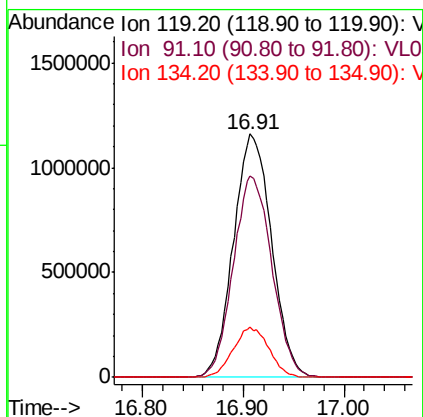
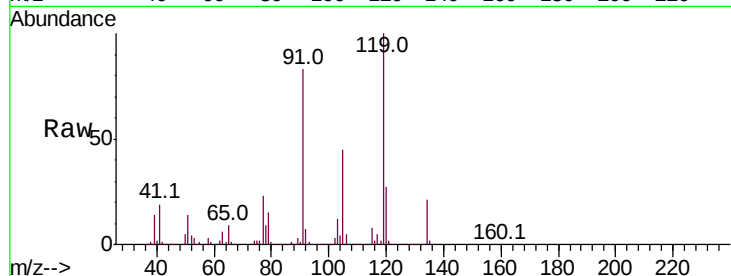
119 100

91 84.1 67.3 100.9

134 19.4 15.5 23.3

Manual Integrations
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3/11/2019 10:10:50 AM



#66

Benzyl Chloride

Concen: 13.325 ppbv

RT: 17.16 min Scan# 4423

Delta R.T. 0.01 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

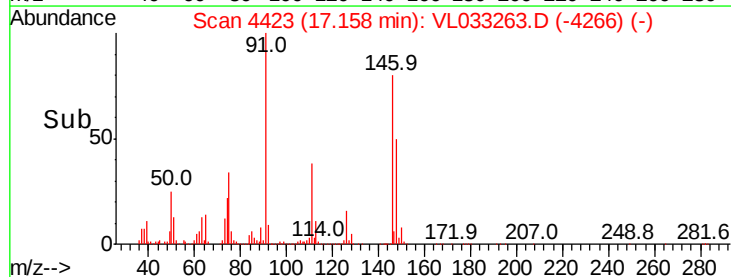
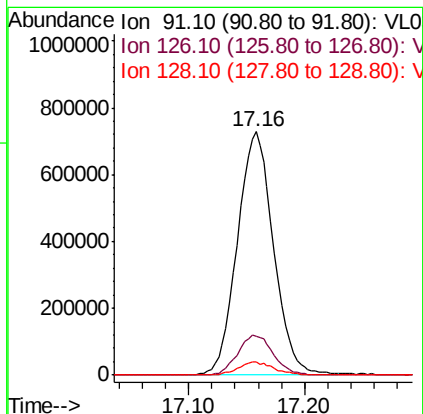
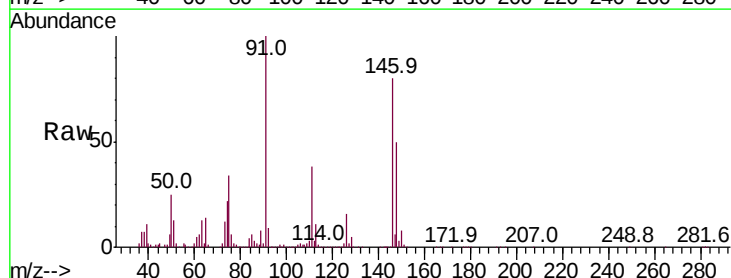
Tgt Ion: 91 Resp: 1567879

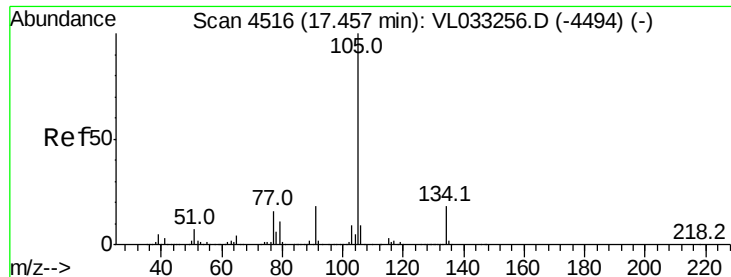
Ion Ratio Lower Upper

91 100

126 16.5 13.0 19.6

128 5.4 4.2 6.2





#67

sec-Butylbenzene

Concen: 9.520 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. 0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

Instrument :

MSVOA_L

ClientSampleId :

ICVVL030819

Tot Ion:105 Resp: 4250621

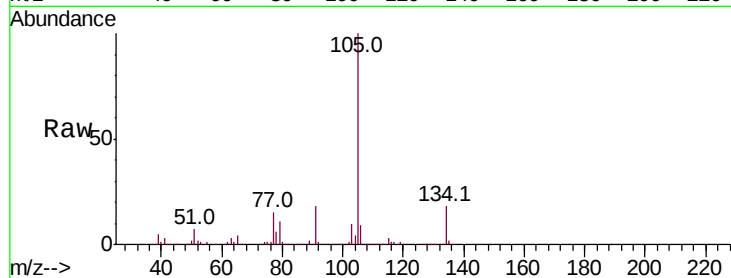
Ion Ratio Lower Upper

105 100

134 17.7 14.0 21.0

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

2000000 Ion 134.20 (133.90 to 134.90): V

17.46

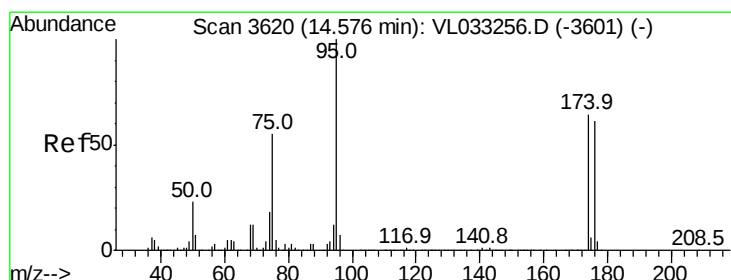
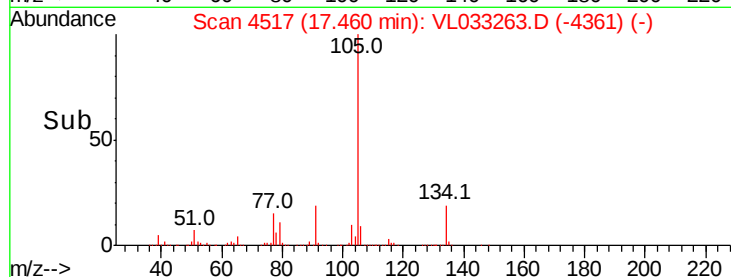
1500000

1000000

500000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.397 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

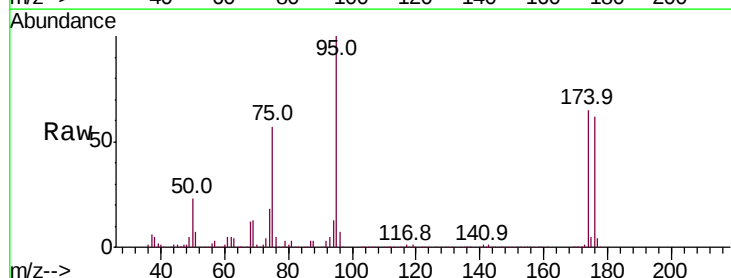
Tgt Ion: 95 Resp: 1778030

Ion Ratio Lower Upper

95 100

174 64.6 51.7 77.5

175 4.7 3.8 5.8



Abundance Ion 95.10 (94.80 to 95.80): VL0

1000000 Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

800000

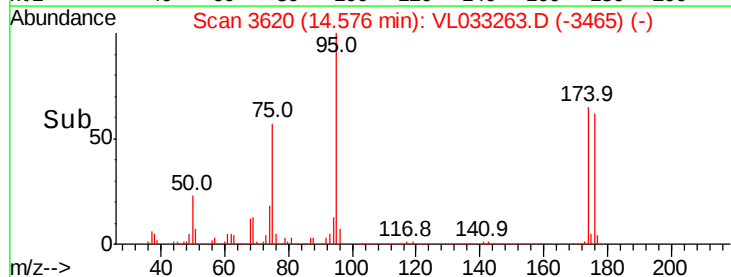
600000

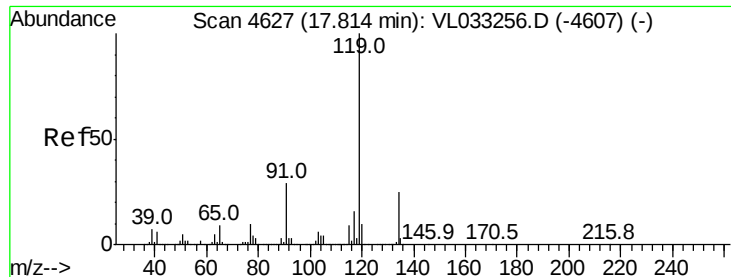
400000

200000

0

Time-->





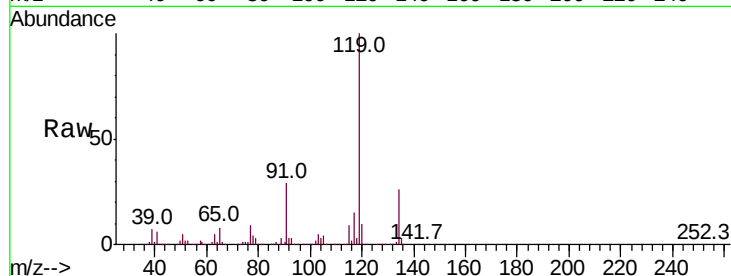
#69
p-Isopropyltoluene
Concen: 10.461 ppbv
RT: 17.82 min Scan# 4628
Delta R.T. 0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Instrument :
MSVOA_L
ClientSampleId :
ICVVL030819

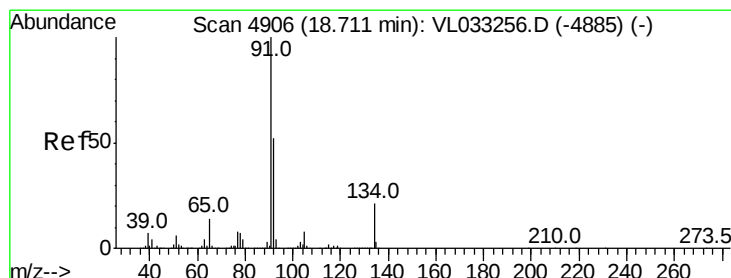
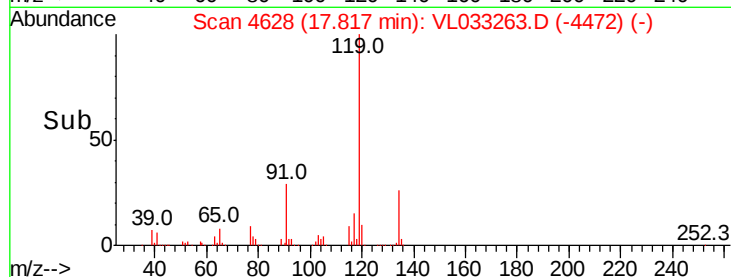
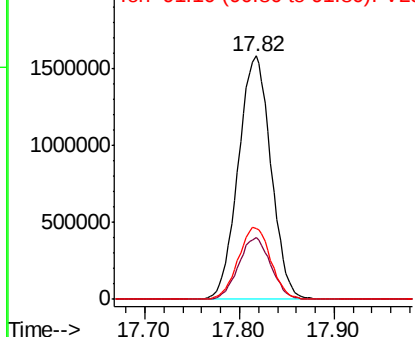
Tot Ion	Ratio	Lower	Upper
119	100		
134	24.9	19.8	29.8
91	29.5	23.9	35.9

Manual Integrations
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3/11/2019 10:10:50 AM

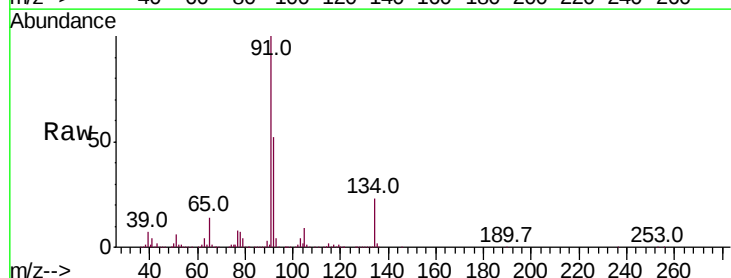


Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): V

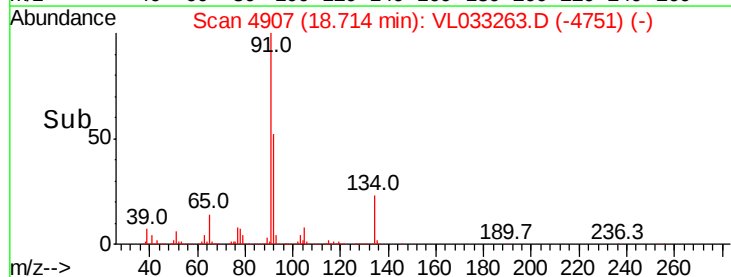
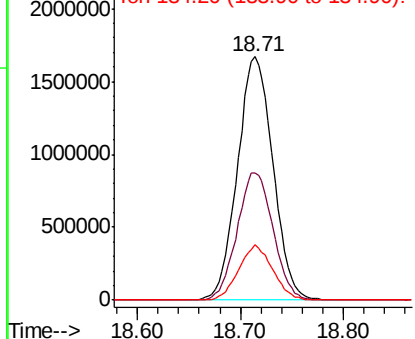


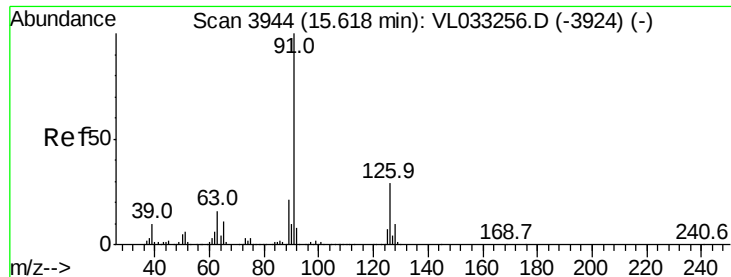
#70
n-Butylbenzene
Concen: 10.166 ppbv
RT: 18.71 min Scan# 4907
Delta R.T. 0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.2	42.6	63.8
134	21.7	17.3	25.9



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: 9.721 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. -0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

Instrument :

MSVOA_L

ClientSampleId :

ICVVL030819

Tot Ion: 91 Resp: 2715844

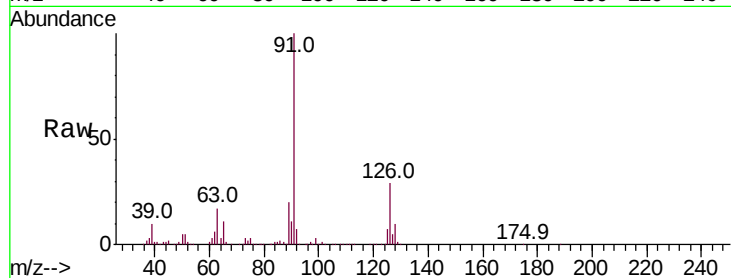
Ion Ratio Lower Upper

91 100

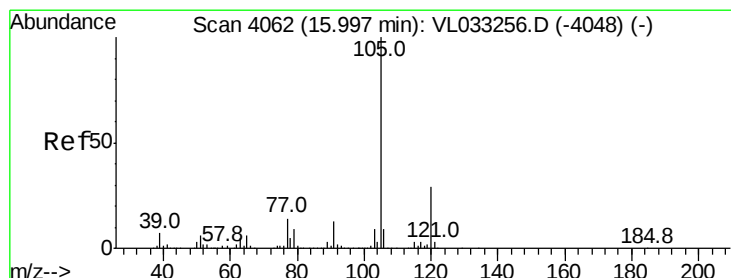
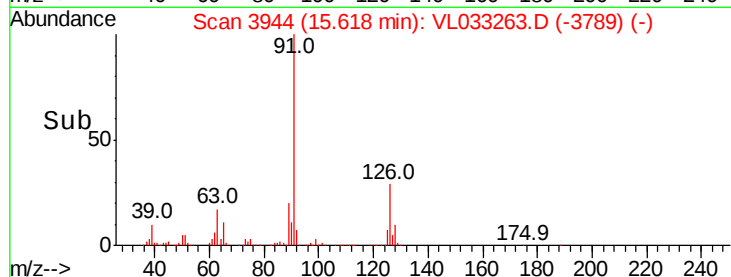
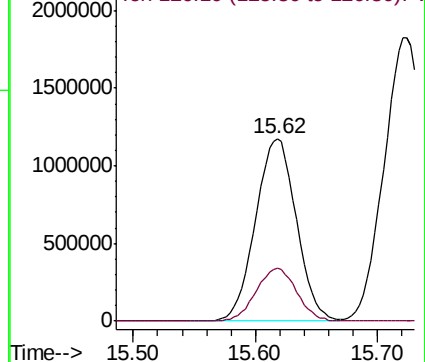
126 28.9 11.7 46.9

Manual Integrations
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Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 10.167 ppbv

RT: 16.00 min Scan# 4063

Delta R.T. 0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

Tgt Ion:105 Resp: 2960032

Ion Ratio Lower Upper

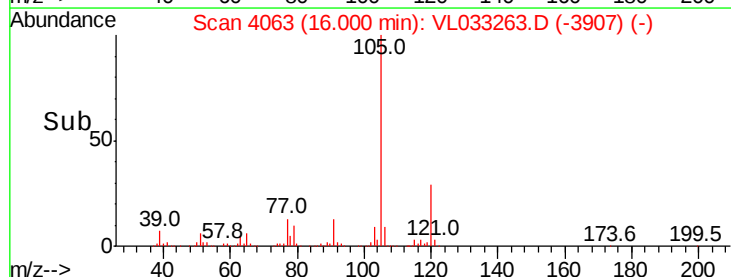
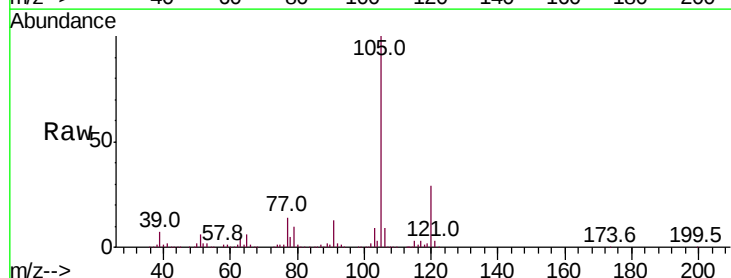
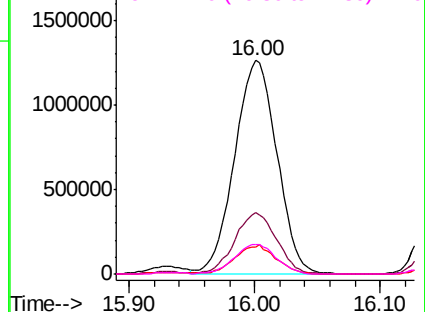
105 100

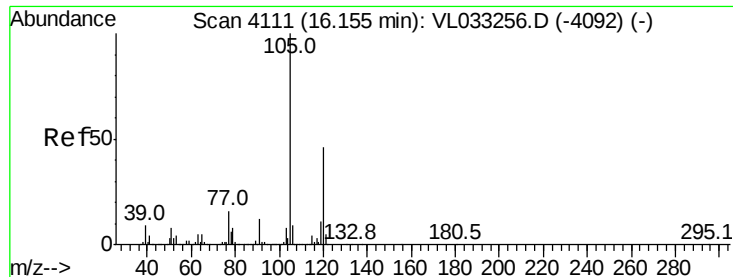
120 28.5 22.9 34.3

91 13.0 10.4 15.6

77 13.9 11.4 17.2

Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0
Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 9.926 ppbv

RT: 16.16 min Scan# 4112

Delta R.T. 0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

Instrument :

MSVOA_L

ClientSampleId :

ICVVL030819

Tot Ion:105 Resp: 2753139

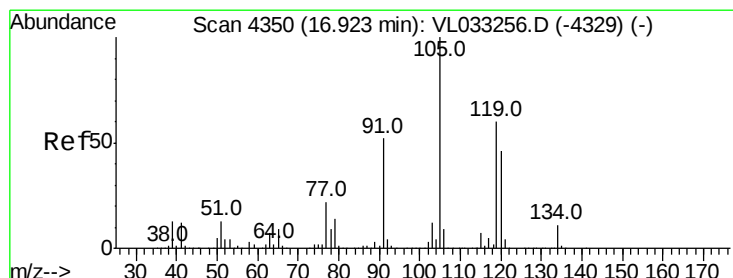
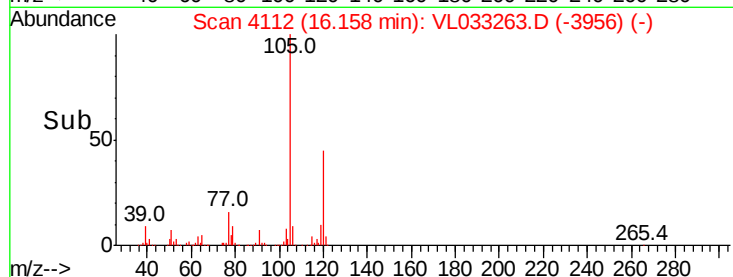
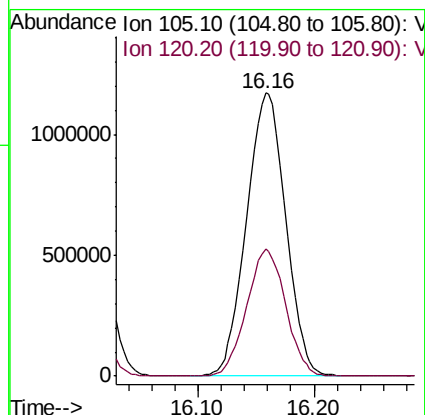
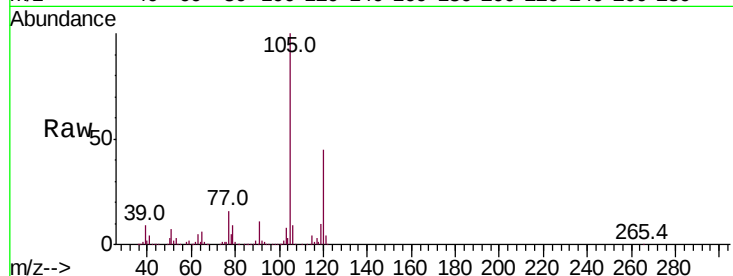
Ion Ratio Lower Upper

105 100

120 45.1 36.6 55.0

Manual Integrations
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3/11/2019 10:10:50 AM



#74

1,2,4-Trimethylbenzene

Concen: 9.716 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. 0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

Tgt Ion:105 Resp: 2804681

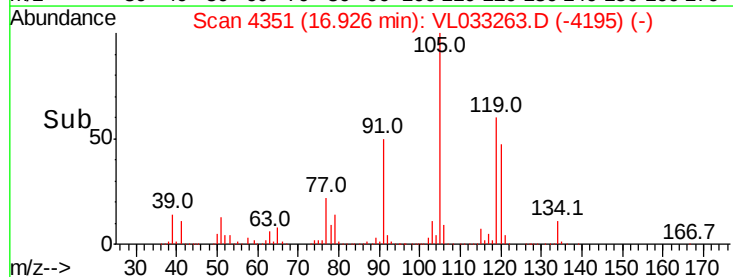
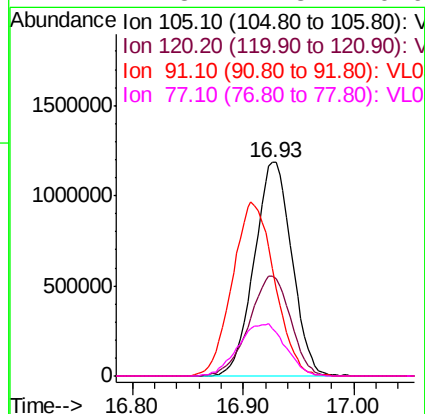
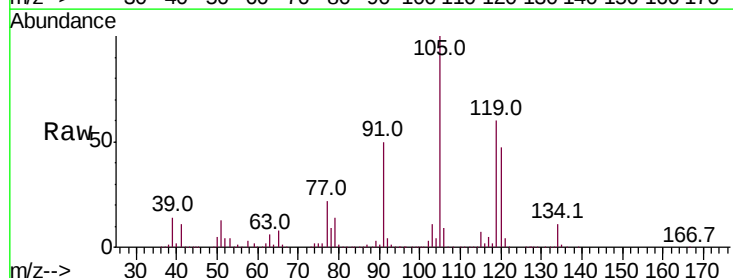
Ion Ratio Lower Upper

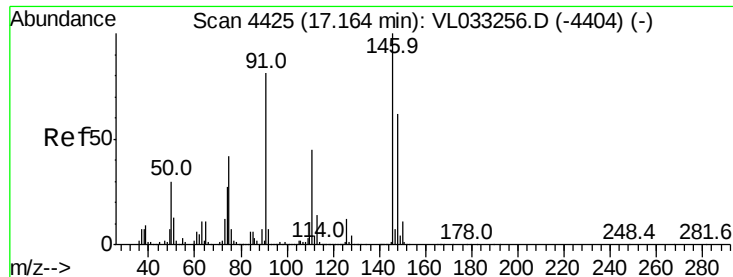
105 100

120 46.8 36.7 55.1

91 50.1 42.1 63.1

77 21.8 17.8 26.6





#75

1,3-Dichlorobenzene

Concen: 9.267 ppbv

RT: 17.17 min Scan# 4426

Delta R.T. 0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

Instrument :

MSVOA_L

ClientSampleId :

ICVVL030819

Tot Ion:146 Resp: 1580742

Ion Ratio Lower Upper

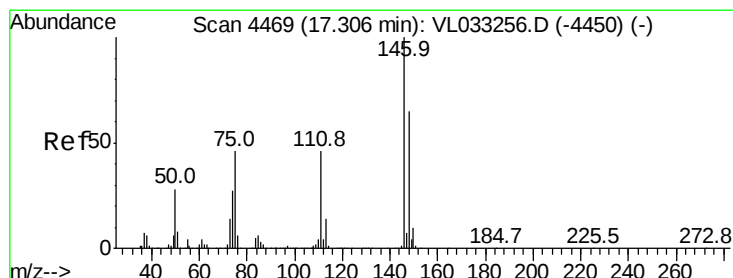
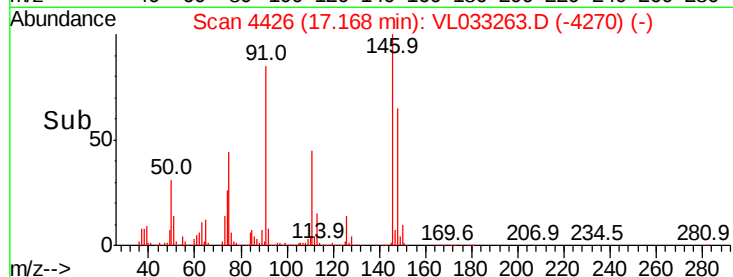
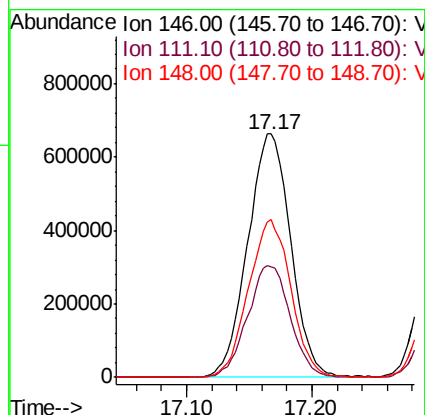
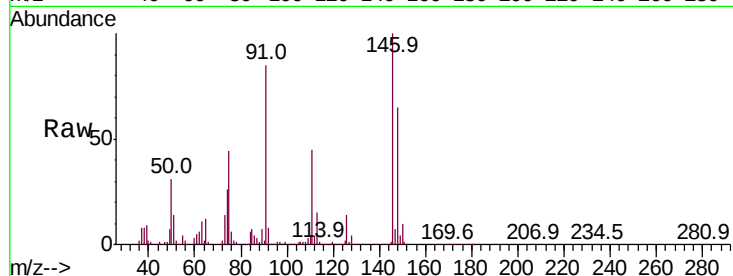
146 100

111 45.7 22.9 68.7

148 64.1 31.6 94.7

Manual Integrations
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3/11/2019 10:10:50 AM



#76

1,4-Dichlorobenzene

Concen: 9.647 ppbv

RT: 17.31 min Scan# 4470

Delta R.T. 0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

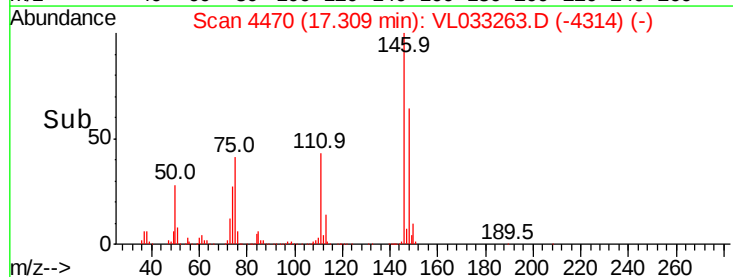
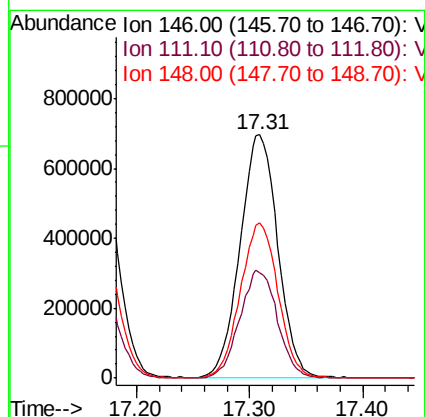
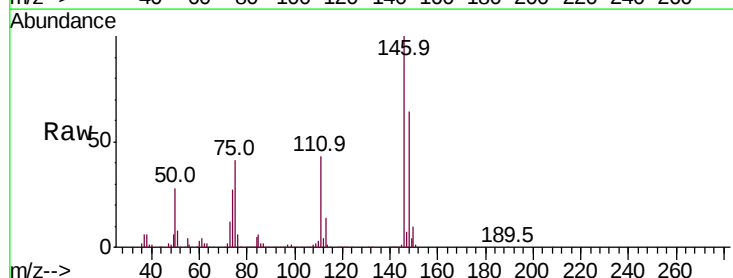
Tgt Ion:146 Resp: 1611360

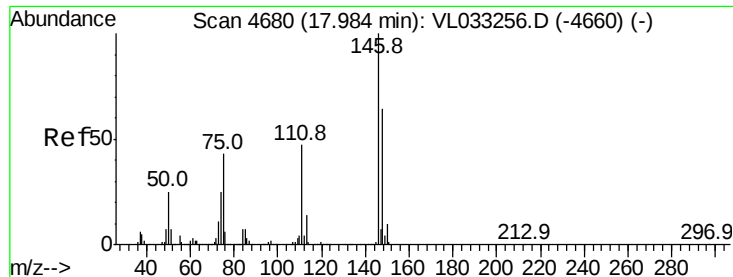
Ion Ratio Lower Upper

146 100

111 44.4 22.6 67.7

148 64.4 32.3 96.9





#77

1,2-Dichlorobenzene

Concen: 9.893 ppbv

RT: 17.98 min Scan# 4680

Delta R.T. -0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

Instrument :

MSVOA_L

ClientSampleId :

ICVVL030819

Tot Ion:146 Resp: 1624498

Ion Ratio Lower Upper

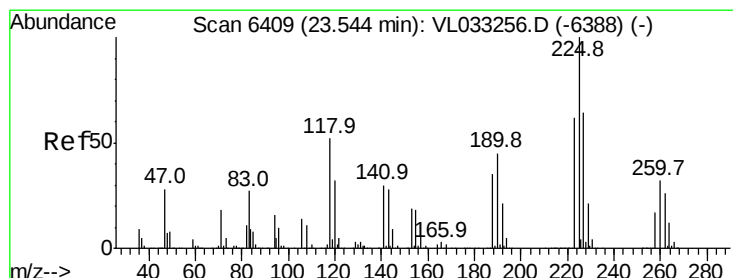
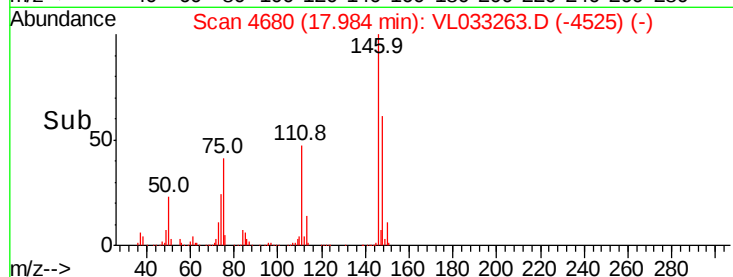
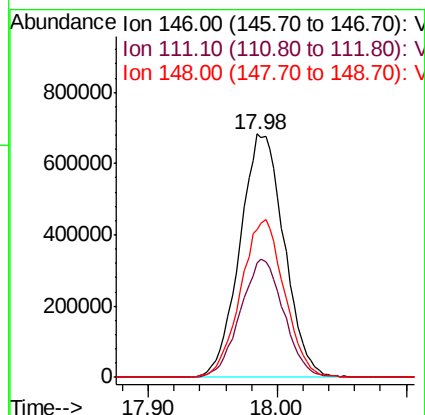
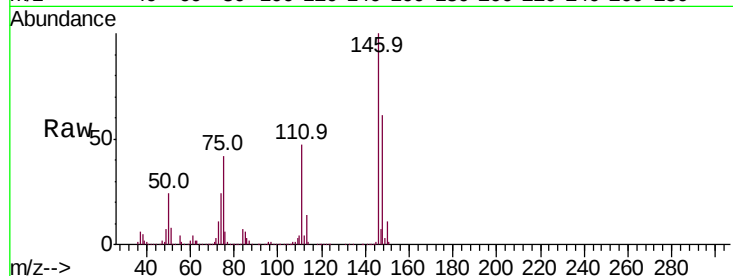
146 100

111 48.0 23.8 71.2

148 64.5 32.0 96.2

Manual Integrations
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3/11/2019 10:10:50 AM



#78

Hexachloro-1,3-Butadiene

Concen: 10.649 ppbv

RT: 23.54 min Scan# 6409

Delta R.T. -0.00 min

Lab File: VL033263.D

Acq: 8 Mar 2019 17:14

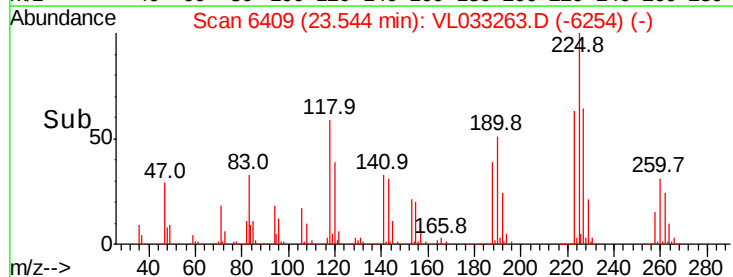
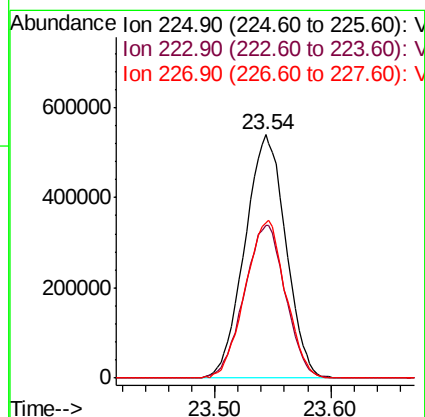
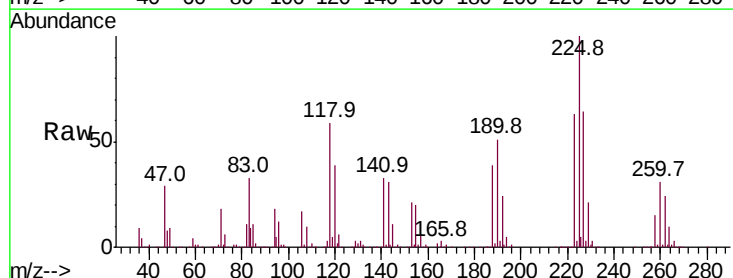
Tgt Ion:225 Resp: 1324625

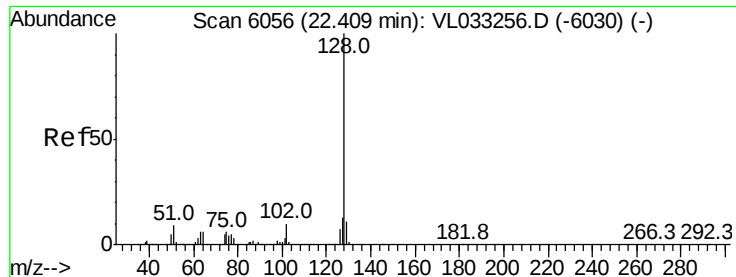
Ion Ratio Lower Upper

225 100

223 63.3 50.4 75.6

227 63.9 51.4 77.0





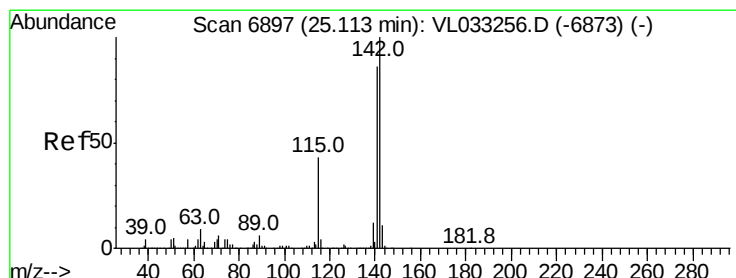
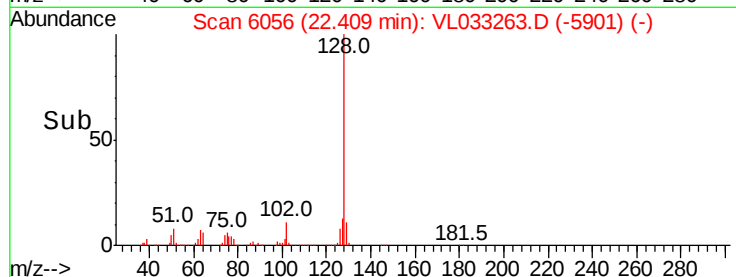
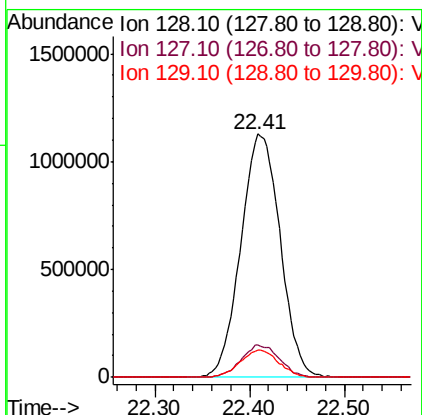
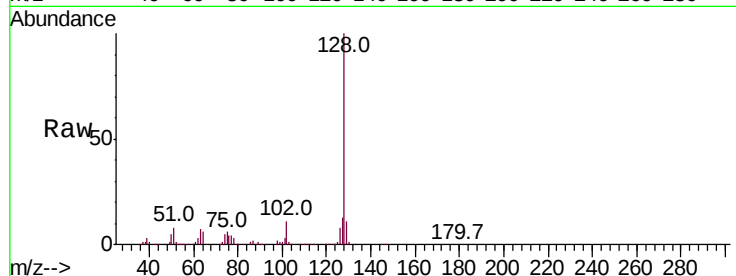
#79
Naphthalene
Concen: 10.350 ppbv
RT: 22.41 min Scan# 6056
Delta R.T. -0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Instrument :
MSVOA_L
ClientSampleId :
ICVVL030819

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.3	15.5
129	11.4	8.6	13.0

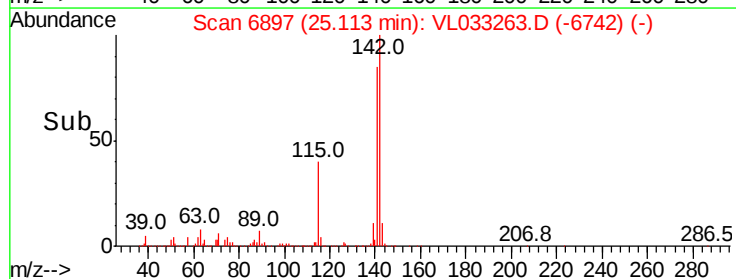
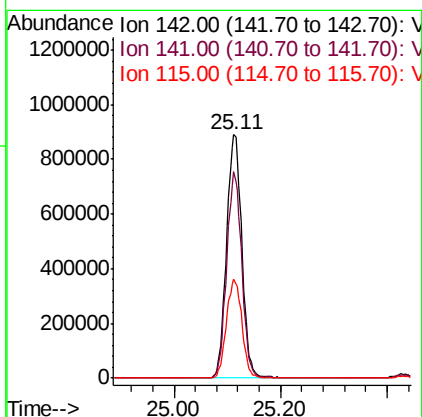
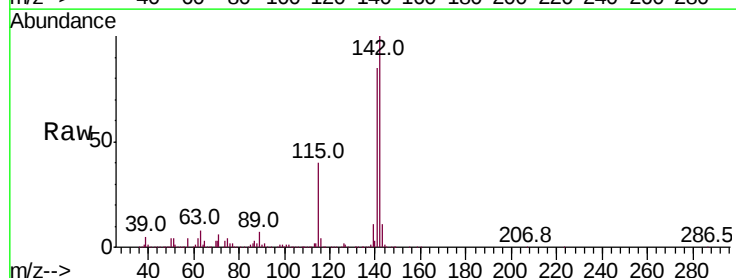
Manual Integrations
APPROVED

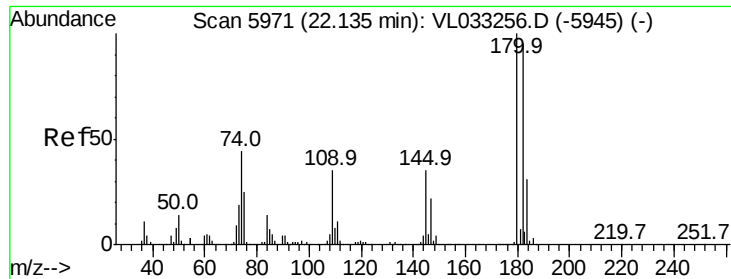
MMDadoda
3/11/2019 10:10:50 AM



#80
Naphthalene, 2-methyl-
Concen: 23.122 ppbv
RT: 25.11 min Scan# 6897
Delta R.T. -0.00 min
Lab File: VL033263.D
Acq: 8 Mar 2019 17:14

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.8	67.6	101.4
115	41.4	33.9	50.9





#81
 1,2,4-Trichlorobenzene
 Concen: 9.349 ppbv
 RT: 22.14 min Scan# 5972
 Delta R.T. 0.00 min
 Lab File: VL033263.D
 Acq: 8 Mar 2019 17:14

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL030819

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.3	76.3	114.5
184	30.9	24.6	36.8

Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 10:10:50 AM

