

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020419\
 Data File : VL033156.D
 Acq On : 4 Feb 2019 13:51
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 2/5/2019 10:27:36 AM

Quant Time: Feb 04 14:43:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL020419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 04
 QLast Update : Fri Feb 01 22:01:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1323737	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.30	114	3153795	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.25	117	3340586m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2481375	9.84	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.08	85	2802123	14.115	ppbv 99
3) Chlorodifluoromethane	3.02	51	1841669	8.651	ppbv 99
4) Chloromethane	3.17	50	1039611	8.483	ppbv 100
5) Vinyl Chloride	3.29	62	973485	7.261	ppbv 97
6) Bromomethane	3.52	94	559530	9.471	ppbv 97
7) Chloroethane	3.60	64	344575	9.524	ppbv 93
8) Dichlorotetrafluoroethane	3.22	85	2153107	8.770	ppbv 98
9) Propene	3.04	41	900497	8.277	ppbv 98
10) Heptane	8.25	43	2661306	13.129	ppbv 99
11) Trichlorofluoromethane	4.01	101	2262182	10.828	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1479801	11.130	ppbv 97
13) Ethanol	3.65	45	192404m	6.251	ppbv
14) Bromoethene	3.79	108	687283	10.219	ppbv 98
15) Acetone	3.90	43	1614497	9.621	ppbv 99
16) 1,3-Butadiene	3.37	39	804761	10.003	ppbv 98
17) tert-Butyl alcohol	4.36	59	341098	8.431	ppbv 99
18) 1,1-Dichloroethene	4.35	96	710330	11.059	ppbv 96
19) Isopropyl Alcohol	4.03	45	1101177	8.583	ppbv # 46
20) Methylene Chloride	4.41	84	597531	9.204	ppbv 96
21) Allyl Chloride	4.48	41	1190678	11.045	ppbv 98
22) trans-1,2-Dichloroethene	4.97	96	717978	11.996	ppbv 97
23) Vinyl Acetate	5.16	43	3181181	10.917	ppbv 99
24) 1,1-Dichloroethane	5.10	63	2092629	10.764	ppbv 99
25) Ethyl Acetate	5.78	43	4195611	11.673	ppbv 100
26) Hexane	5.79	57	1910183	10.855	ppbv 99
27) Carbon Disulfide	4.62	76	1788253	12.585	ppbv 97
28) Methyl tert-Butyl Ether	5.12	73	2600209	10.280	ppbv 100
29) Chloroform	5.86	83	3026091	12.731	ppbv 99
30) Cyclohexane	7.25	84	1685461	12.354	ppbv 99
31) cis-1,2-Dichloroethene	5.65	61	1703445	10.600	ppbv 97
32) 1,1,1-Trichloroethane	6.63	97	2883952	11.750	ppbv # 83
34) 2-Butanone	5.33	43	2467956	10.237	ppbv 100
35) Carbon Tetrachloride	7.14	117	2880279	12.172	ppbv 100
36) Benzene	7.01	78	4094589	11.577	ppbv 98
37) 1,2-Dichloroethane	6.42	62	2290960	12.722	ppbv 99
38) Trichloroethene	7.97	130	1401501	9.841	ppbv 97
39) 1,2-Dichloropropane	7.74	63	1610599	12.425	ppbv 97
40) 1,4-Dioxane	7.96	88	501914	10.996	ppbv 75
41) Tetrahydrofuran	6.15	42	1754040	12.111	ppbv 99
42) Bromodichloromethane	7.92	83	3248939	12.657	ppbv 98
43) Methyl Methacrylate	8.14	69	1703301	13.746	ppbv 99

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Quant Time: Feb 04 14:43:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL020419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 0
 QLast Update : Fri Feb 01 22:01:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	8.00	57	6572004	11.516	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	2296061	15.338	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	2580809	14.379	ppbv	99
47) 1,1,2-Trichloroethane	9.62	97	1628773	13.776	ppbv	93
48) Dibromochloromethane	10.46	129	2705132	13.726	ppbv	100
49) Bromoform	13.21	173	2244189	13.725	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	4156837	13.275	ppbv	100
51) 2-Hexanone	10.28	43	3425063	12.278	ppbv #	100
52) Tetrachloroethene	11.38	164	1315866	9.808	ppbv	99
53) Toluene	9.96	91	4720415	11.657	ppbv	99
54) 1,2-Dibromoethane	10.77	107	2562899	11.524	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.29	131	1814485	12.211	ppbv	96
57) Chlorobenzene	12.31	112	3322980	11.303	ppbv	96
58) Ethyl Benzene	12.87	91	6303451	11.505	ppbv	99
59) m/p-Xylene	13.16	91	10241669m	22.917	ppbv	
60) o-Xylene	13.86	91	4850668	11.222	ppbv	97
61) Styrene	13.69	104	3997094	12.055	ppbv	98
62) Isopropylbenzene	14.83	105	6991622	11.377	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	3391987	10.401	ppbv	100
64) n-propylbenzene	15.73	120	1858068	11.800	ppbv	97
65) tert-Butylbenzene	16.92	119	5993341	11.589	ppbv	96
66) Benzyl Chloride	17.16	91	3654321	15.775	ppbv	98
67) sec-Butylbenzene	17.47	105	8693151	11.835	ppbv	99
69) p-Isopropyltoluene	17.82	119	7208295	12.450	ppbv	98
70) n-Butylbenzene	18.72	91	7831549	13.295	ppbv	99
71) 2-Chlorotoluene	15.62	91	5592831	11.958	ppbv	98
72) 4-Ethyltoluene	16.01	105	5973621	12.330	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	5649882	12.934	ppbv	98
74) 1,2,4-Trimethylbenzene	16.94	105	5504221	12.794	ppbv	97
75) 1,3-Dichlorobenzene	17.17	146	3106290	12.118	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	3208246	12.534	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	3148517	12.735	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	2252807	19.667	ppbv	99
79) Naphthalene	22.42	128	6379330	22.613	ppbv	100
80) Naphthalene, 2-methyl-	25.12	142	3022516	36.322	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	2921924	19.676	ppbv	100

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

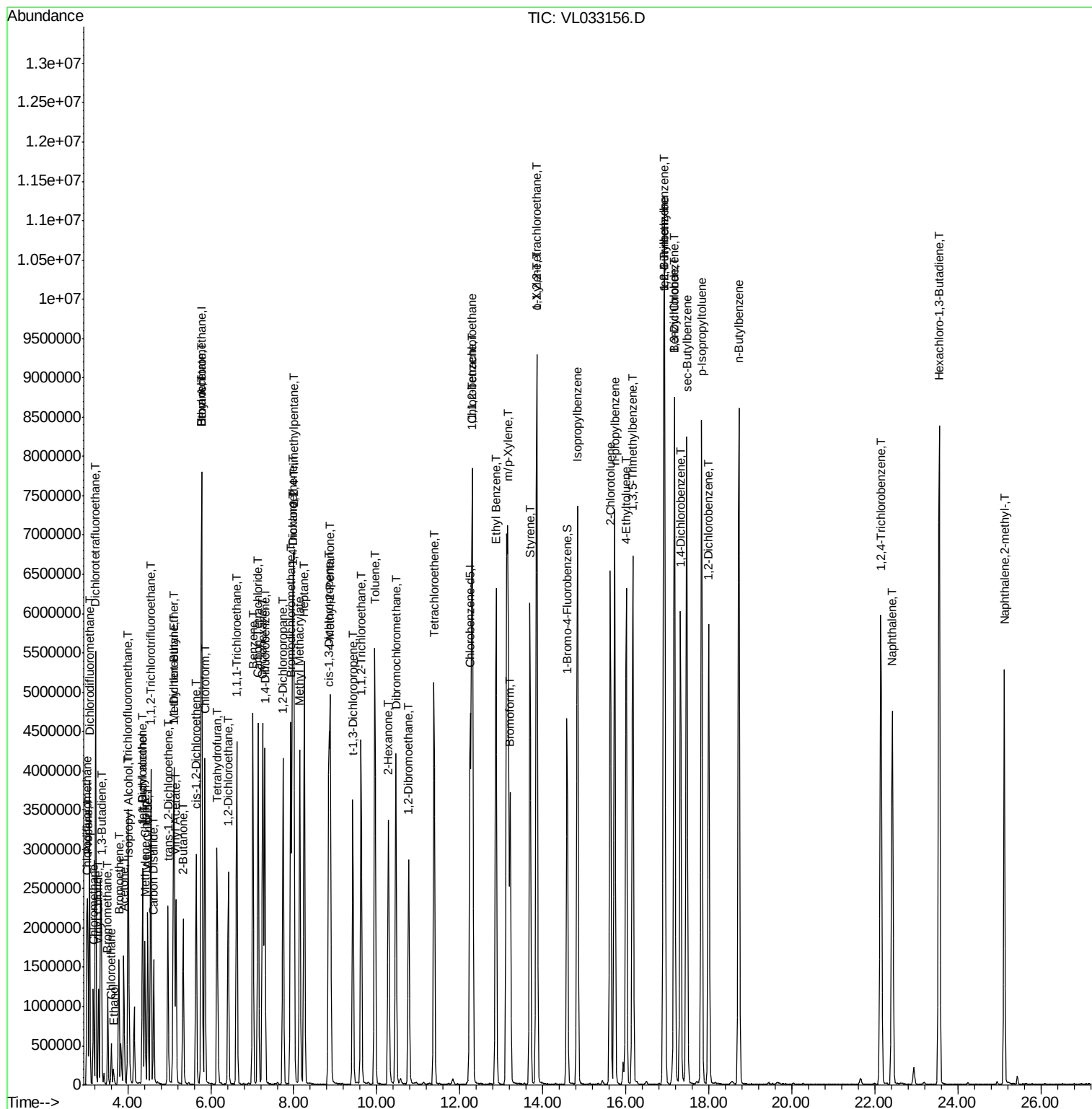
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL020419\
Data File : VL033156.D
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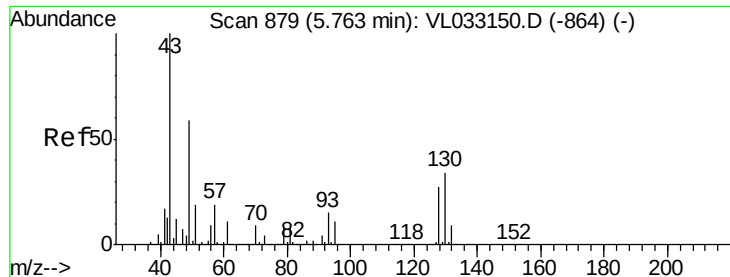
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

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Quant Time: Feb 04 14:43:39 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL020419AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Feb
QLast Update : Fri Feb 01 22:01:04 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 1323737

Ion Ratio Lower Upper

49 100

128 45.4 23.2 69.5

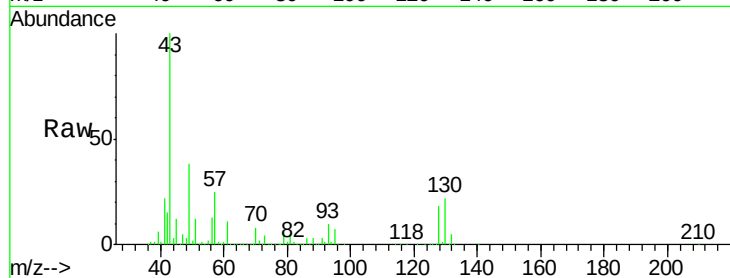
130 57.7 29.5 88.6

Manual Integrations

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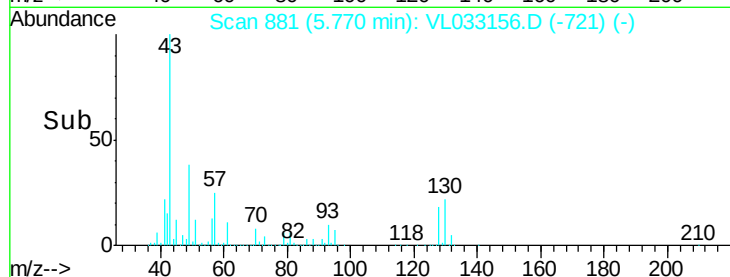
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Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

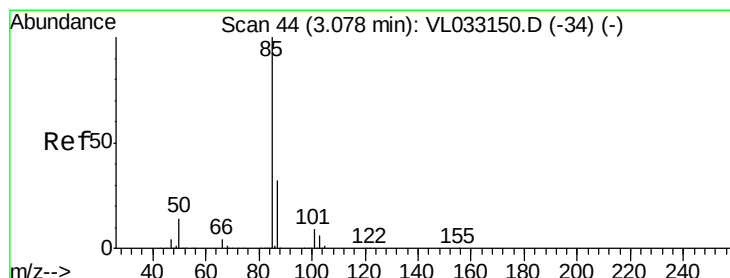
5.77

Time-->



5.77

Time-->



#2

Dichlorodifluoromethane

Concen: 14.115 ppbv

RT: 3.08 min Scan# 45

Delta R.T. 0.01 min

Lab File: VL033156.D

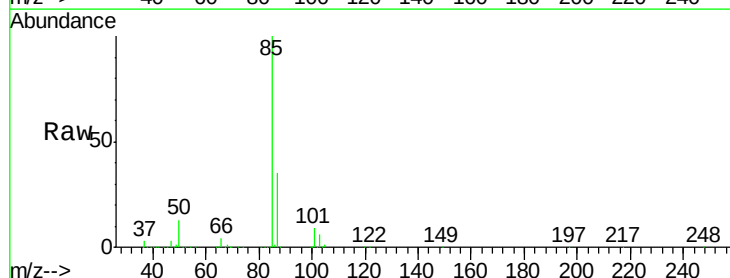
Acq: 4 Feb 2019 13:51

Tgt Ion: 85 Resp: 2802123

Ion Ratio Lower Upper

85 100

87 34.6 27.4 41.0

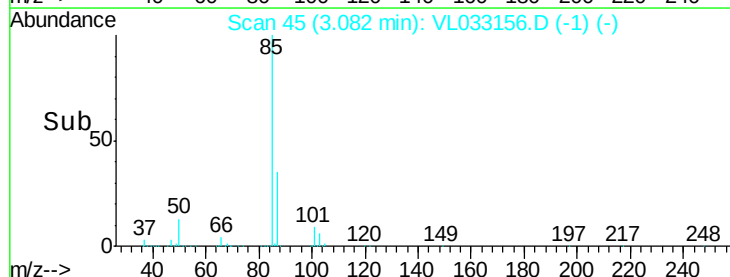


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

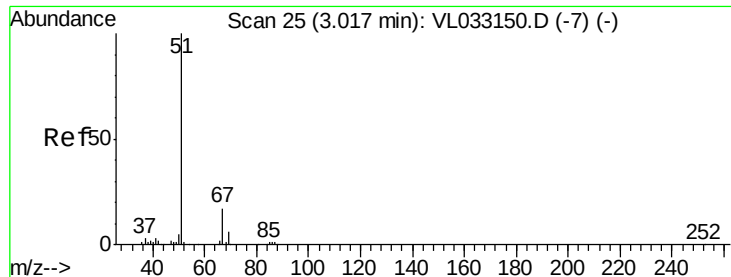
3.08

Time-->



3.08

Time-->



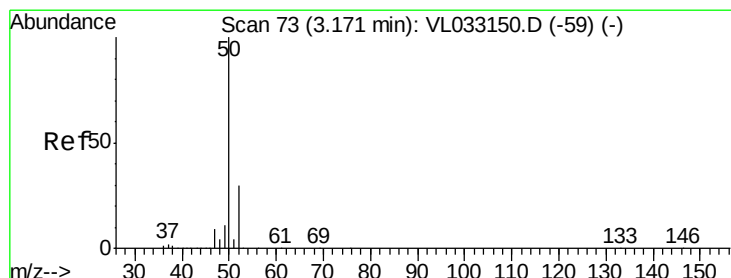
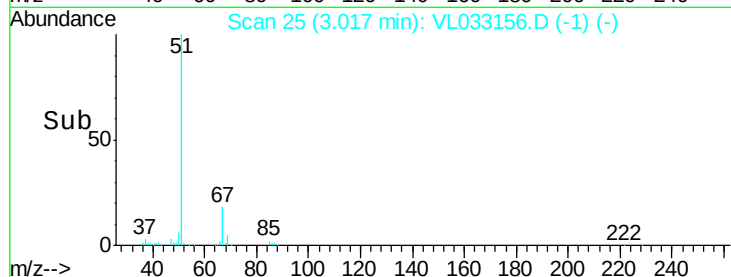
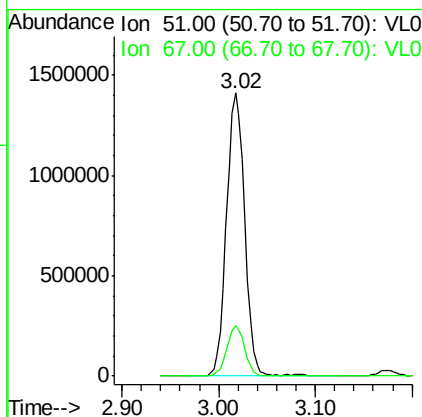
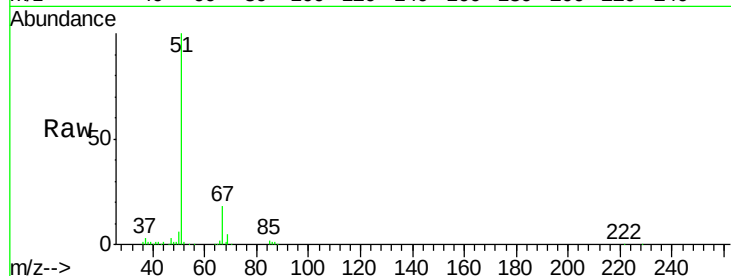
#3
Chlorodifluoromethane
Concen: 8.651 ppbv
RT: 3.02 min Scan# 25
Delta R.T. 0.01 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 51 Resp: 1841669
Ion Ratio Lower Upper
51 100
67 17.3 13.4 20.2

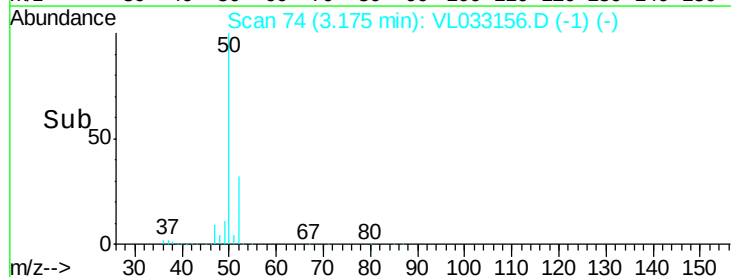
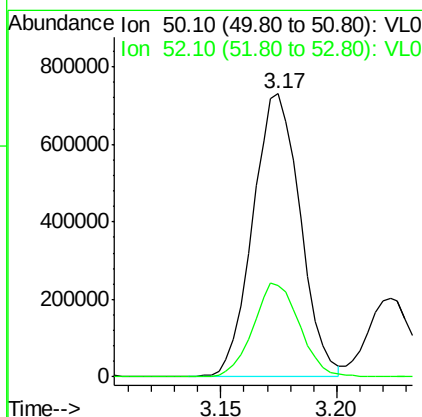
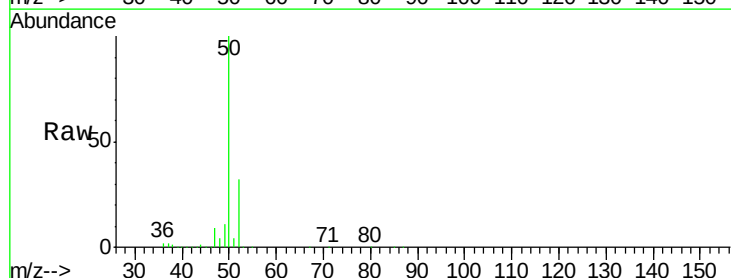
Manual Integrations
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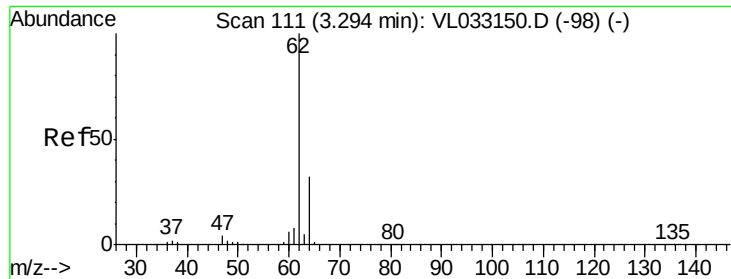
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#4
Chloromethane
Concen: 8.483 ppbv
RT: 3.17 min Scan# 74
Delta R.T. 0.01 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

Tgt Ion: 50 Resp: 1039611
Ion Ratio Lower Upper
50 100
52 32.3 25.7 38.5





#5

Vinyl Chloride

Concen: 7.261 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 973485

Ion Ratio Lower Upper

62 100

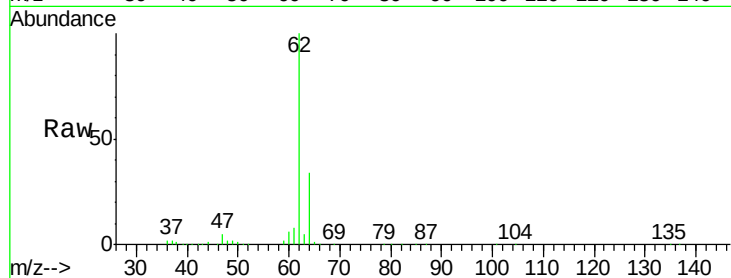
64 34.4 26.3 39.5

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.29

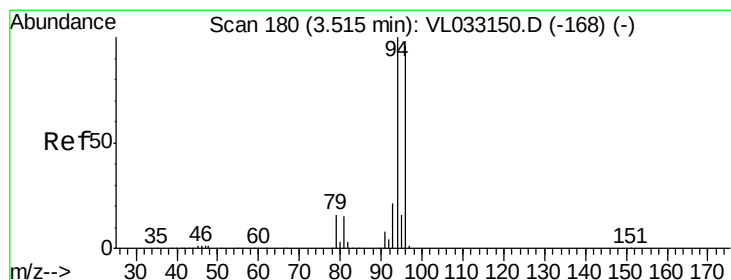
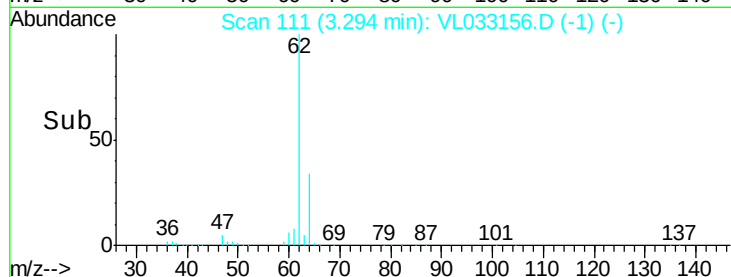
600000

400000

200000

0

Time-->



#6

Bromomethane

Concen: 9.471 ppbv

RT: 3.52 min Scan# 181

Delta R.T. 0.01 min

Lab File: VL033156.D

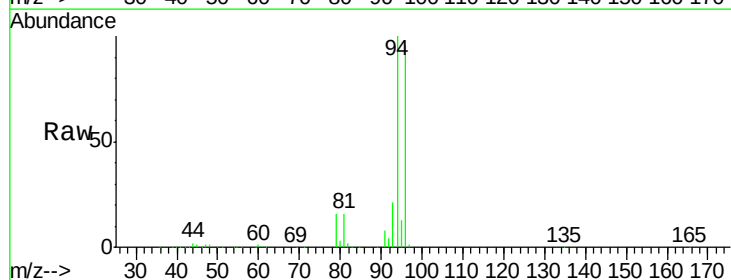
Acq: 4 Feb 2019 13:51

Tgt Ion: 94 Resp: 559530

Ion Ratio Lower Upper

94 100

96 95.6 74.0 111.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.52

400000

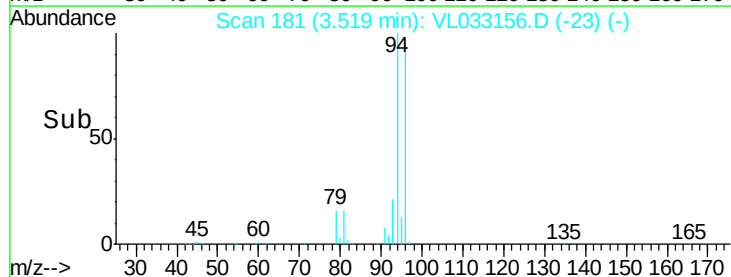
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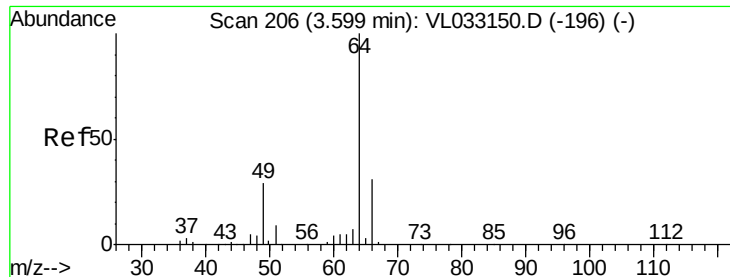
200000

100000

0

Time-->





#7

Chloroethane

Concen: 9.524 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 344575

Ion Ratio Lower Upper

64 100

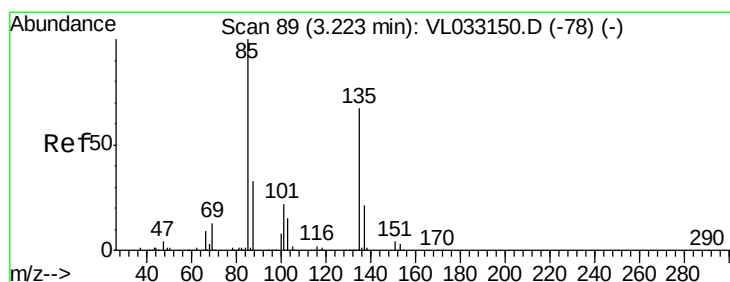
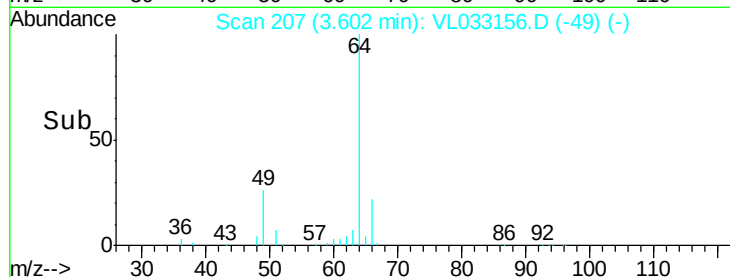
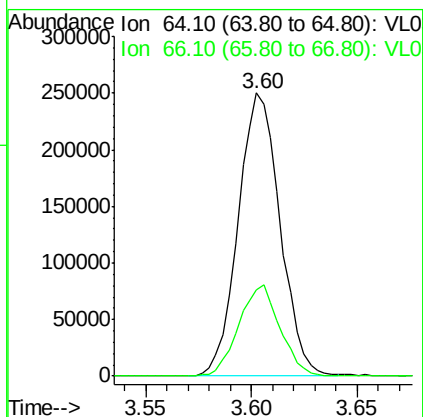
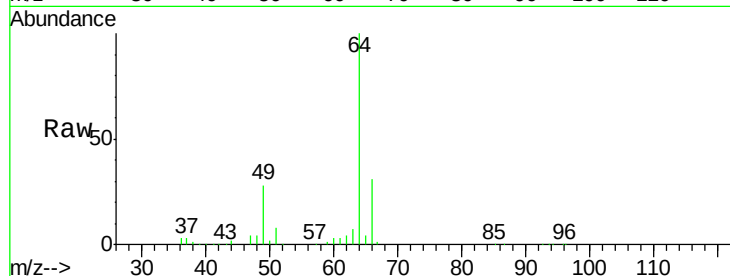
66 31.3 22.3 33.5

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#8

Dichlorotetrafluoroethane

Concen: 8.770 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.01 min

Lab File: VL033156.D

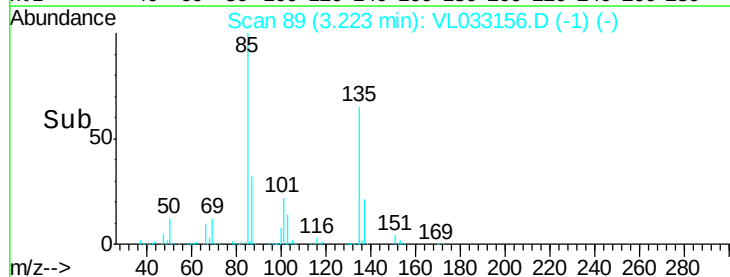
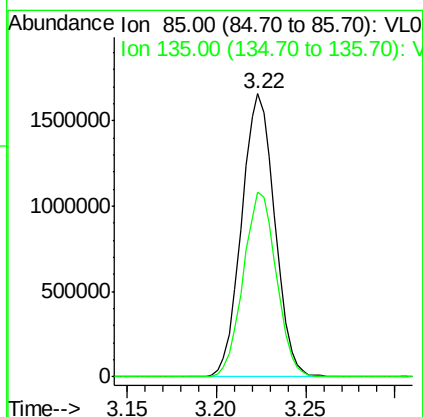
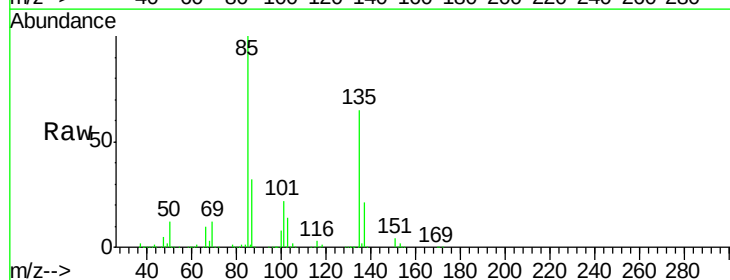
Acq: 4 Feb 2019 13:51

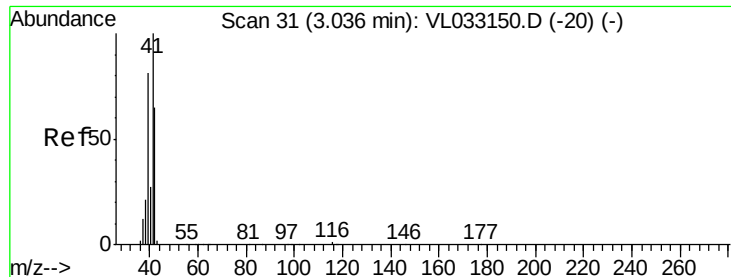
Tgt Ion: 85 Resp: 2153107

Ion Ratio Lower Upper

85 100

135 65.6 54.0 81.0





#9

Propene

Concen: 8.277 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 900497

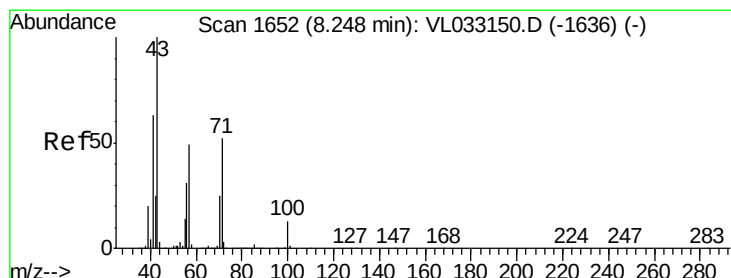
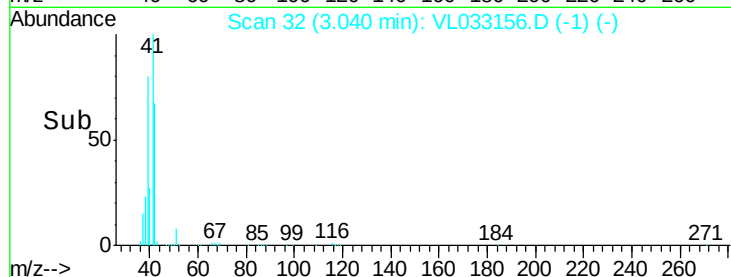
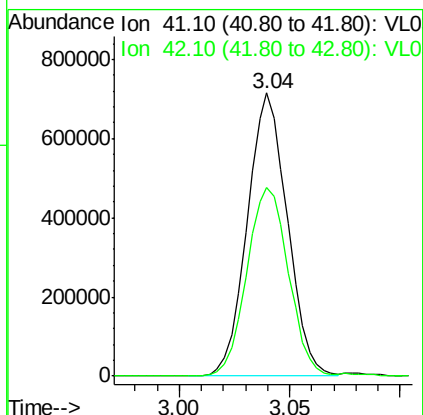
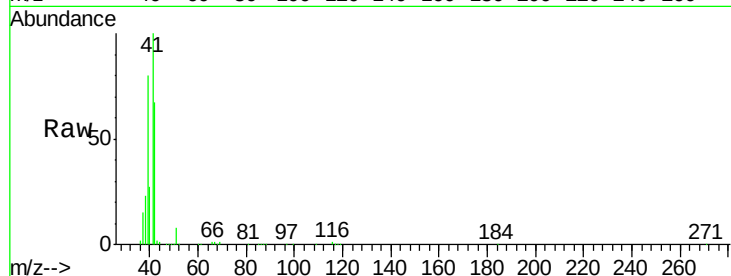
Ion Ratio Lower Upper

41 100

42 70.1 55.1 82.7

Manual Integrations
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#10

Heptane

Concen: 13.129 ppbv

RT: 8.25 min Scan# 1653

Delta R.T. 0.01 min

Lab File: VL033156.D

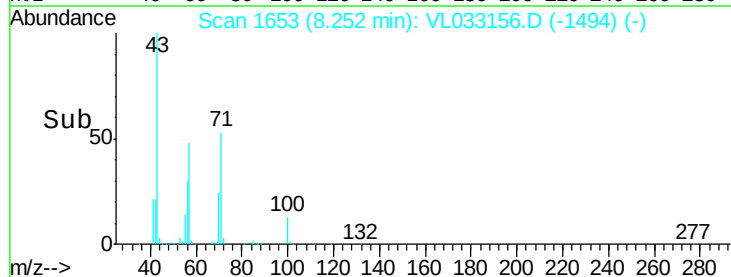
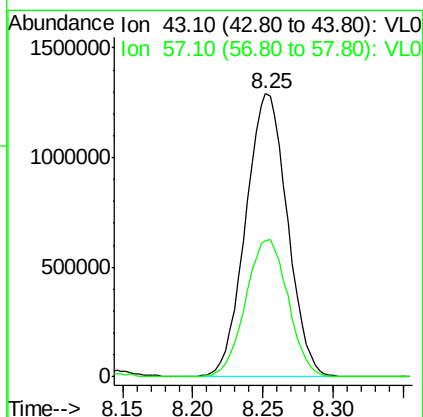
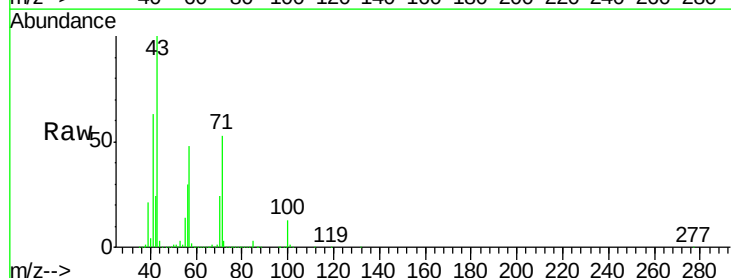
Acq: 4 Feb 2019 13:51

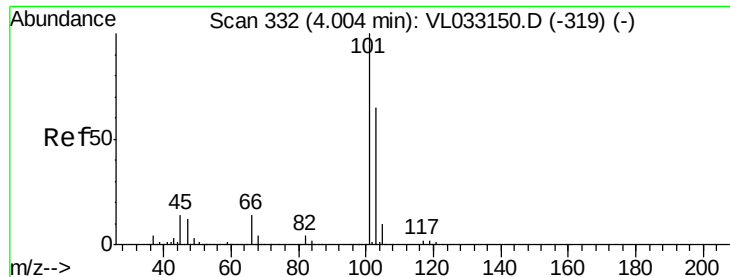
Tgt Ion: 43 Resp: 2661306

Ion Ratio Lower Upper

43 100

57 49.5 39.3 58.9





#11

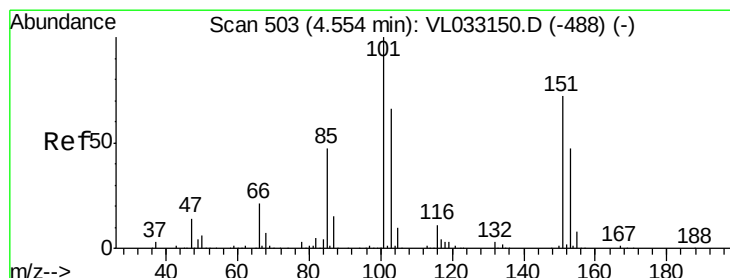
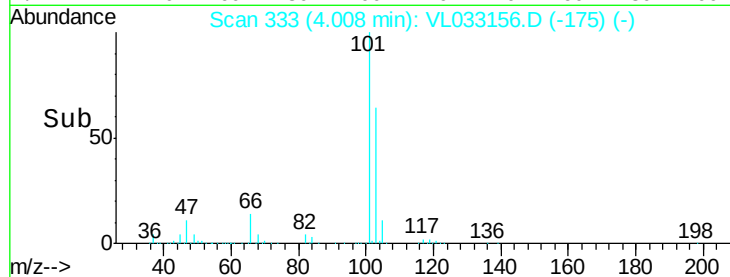
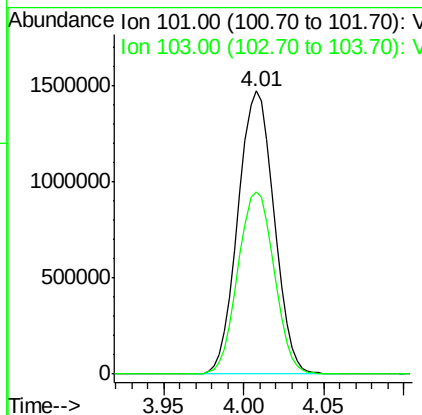
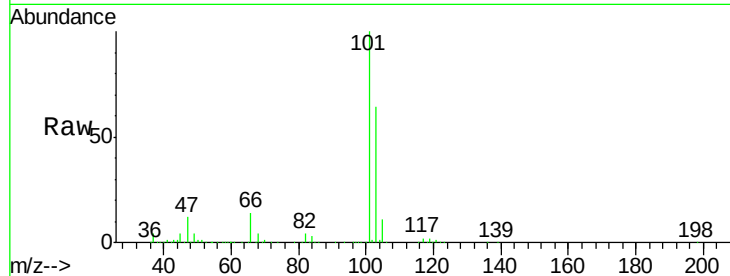
Trichlorofluoromethane
Concen: 10.828 ppbv
RT: 4.01 min Scan# 333
Delta R.T. 0.01 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:101 Resp: 2262182
Ion Ratio Lower Upper
101 100
103 64.4 51.3 76.9

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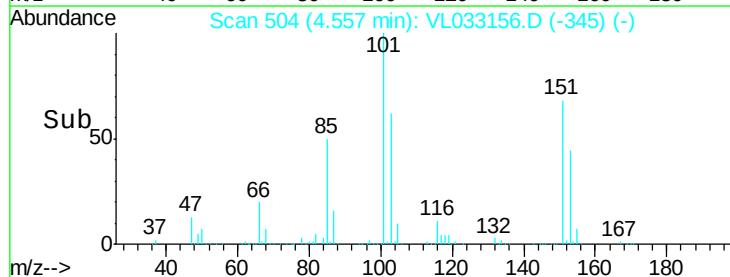
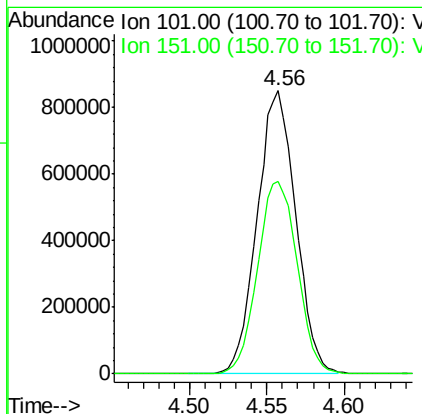
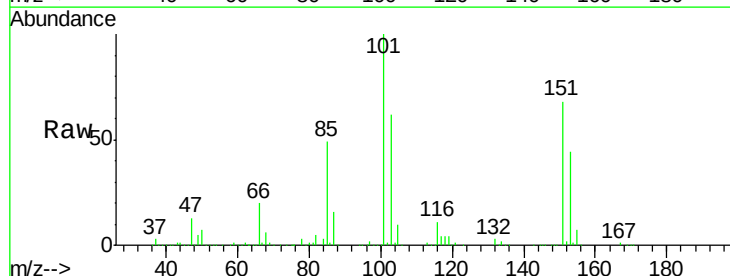
MMDadoda
2/5/2019 10:27:36 AM

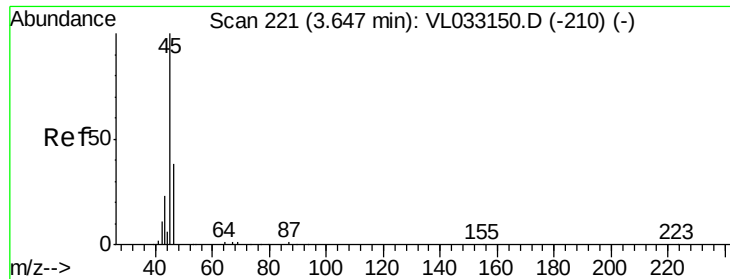


#12

1,1,2-Trichlorotrifluoroethane
Concen: 11.130 ppbv
RT: 4.56 min Scan# 504
Delta R.T. 0.01 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

Tgt Ion:101 Resp: 1479801
Ion Ratio Lower Upper
101 100
151 69.9 57.9 86.9





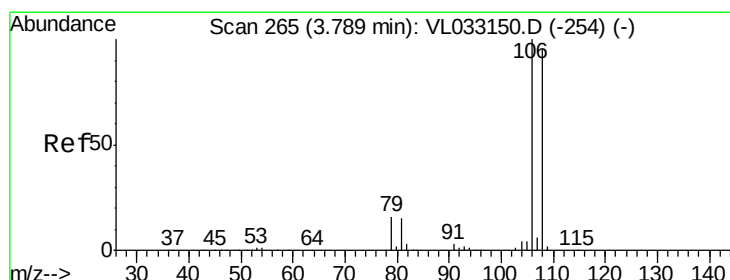
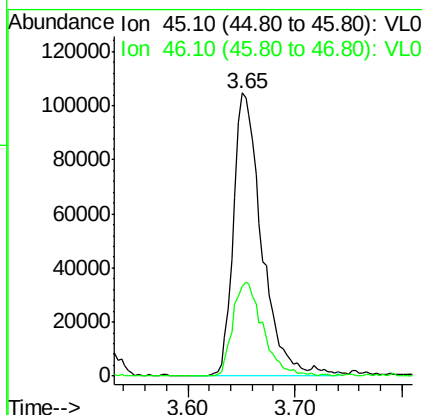
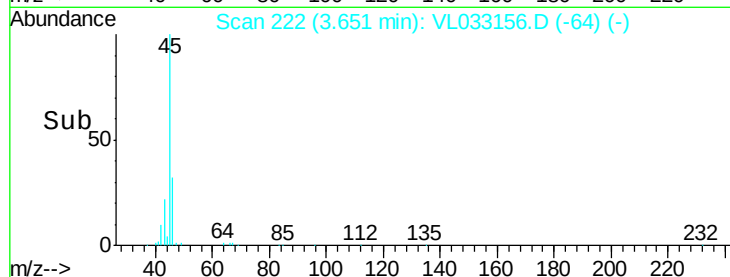
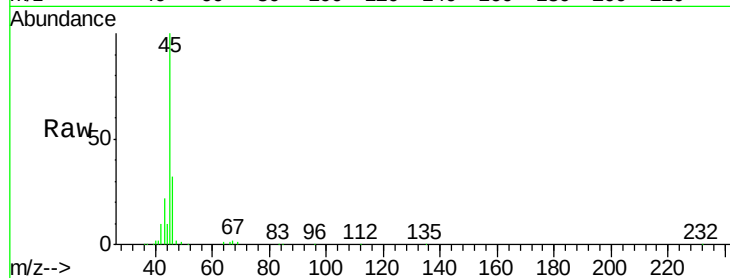
#13
Ethanol
Concen: 6.251 ppbv m
RT: 3.65 min Scan# 222
Delta R.T. 0.01 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
45	100		
46	35.1	14.0	56.2

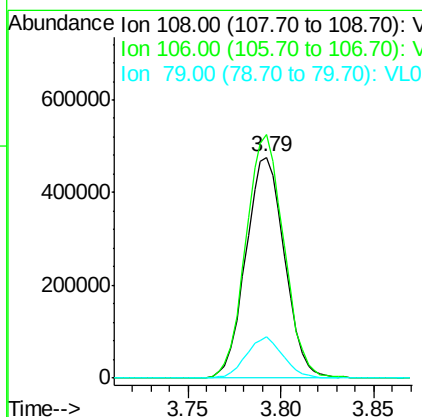
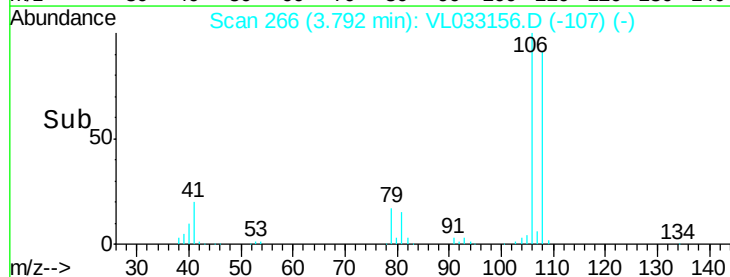
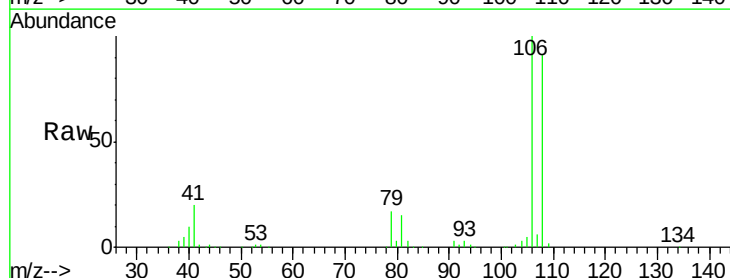
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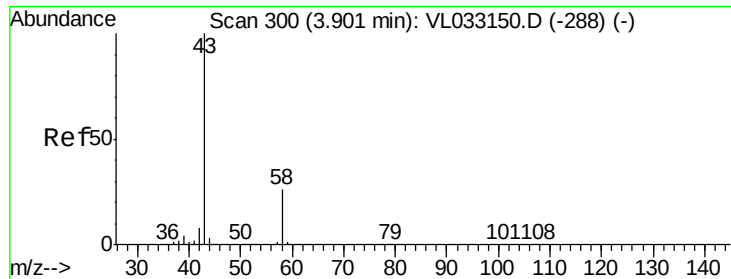
MMDadoda
2/5/2019 10:27:36 AM



#14
Bromoethene
Concen: 10.219 ppbv
RT: 3.79 min Scan# 266
Delta R.T. 0.01 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

Tgt Ion	Ratio	Lower	Upper
108	100		
106	109.0	85.6	128.4
79	18.0	14.2	21.4





#15

Acetone

Concen: 9.621 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 1614497

Ion Ratio Lower Upper

43 100

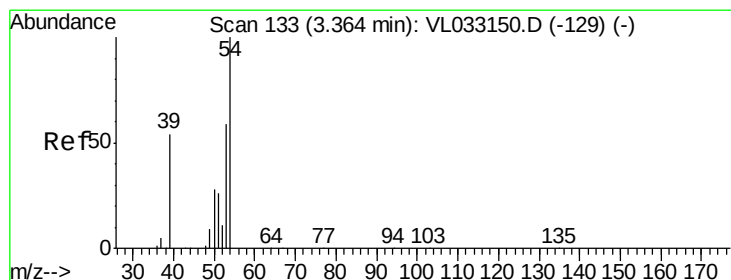
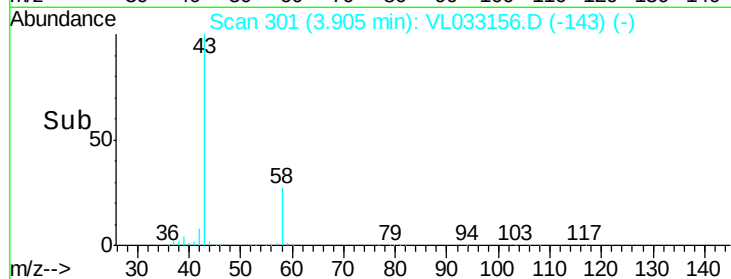
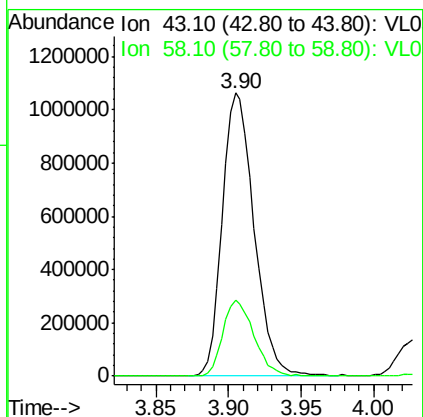
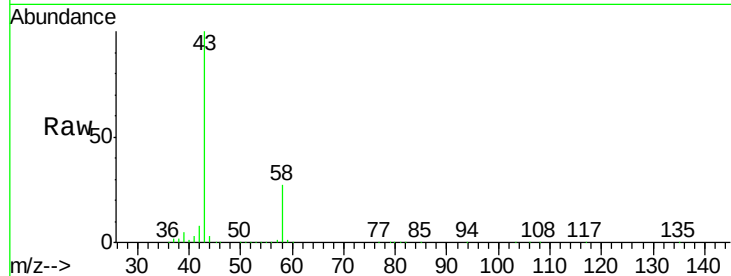
58 26.6 21.8 32.6

Manual Integrations

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#16

1,3-Butadiene

Concen: 10.003 ppbv

RT: 3.37 min Scan# 134

Delta R.T. 0.01 min

Lab File: VL033156.D

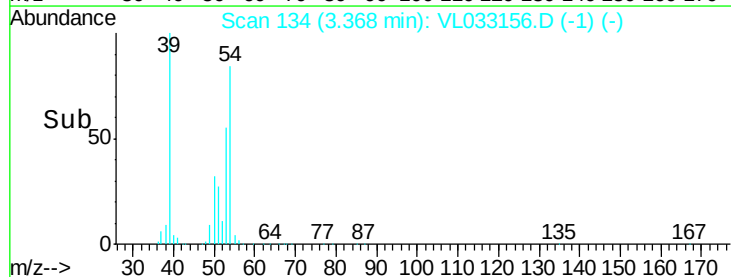
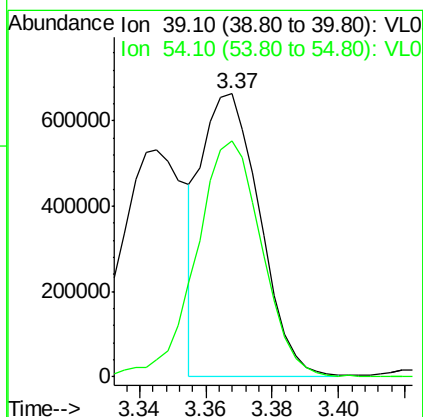
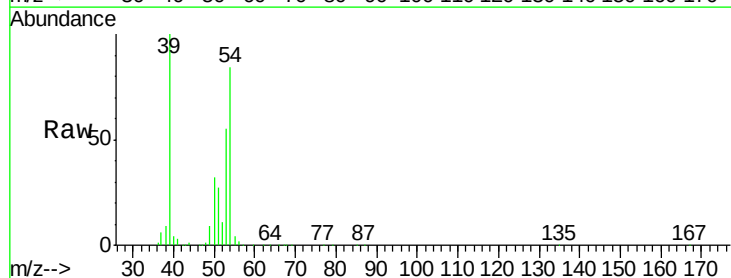
Acq: 4 Feb 2019 13:51

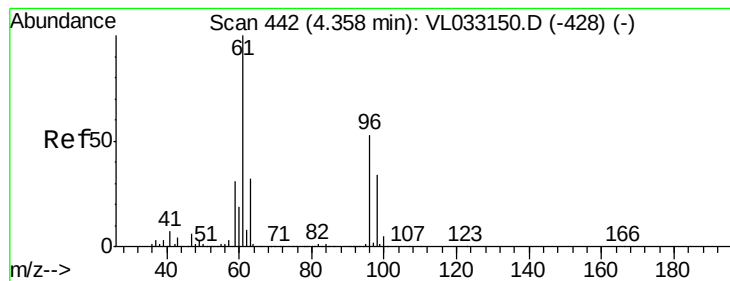
Tgt Ion: 39 Resp: 804761

Ion Ratio Lower Upper

39 100

54 95.4 75.0 112.6





#17

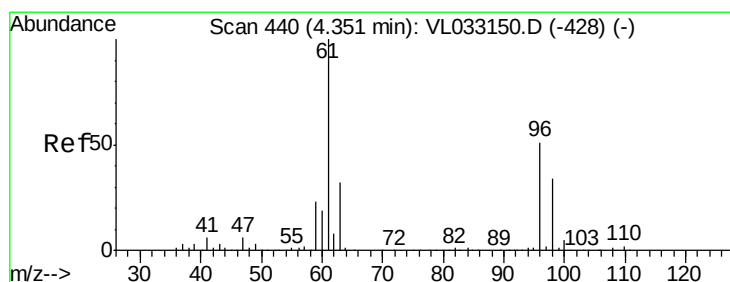
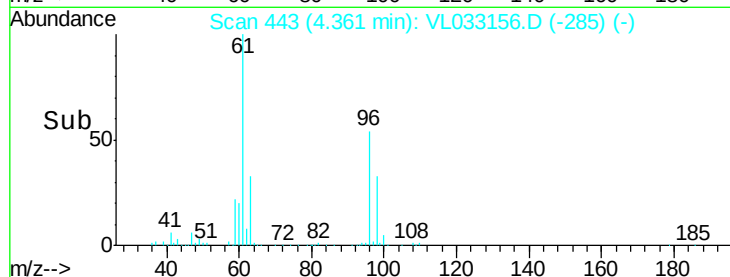
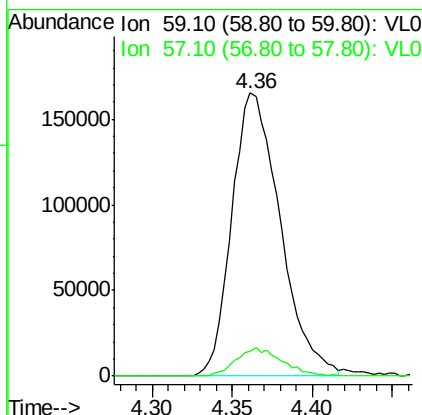
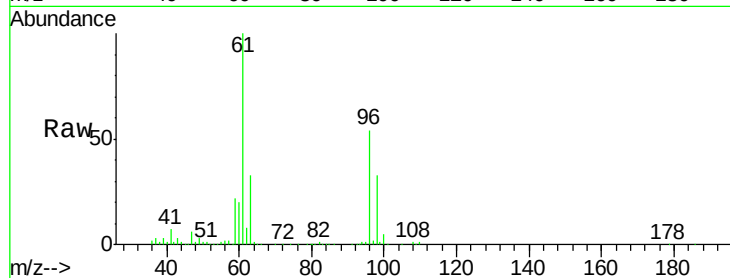
tert-Butyl alcohol
 Concen: 8.431 ppbv
 RT: 4.36 min Scan# 443
 Delta R.T. 0.01 min
 Lab File: VL033156.D
 Acq: 4 Feb 2019 13:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	59	Ratio	59.10 (58.80 to 59.80): VL0	Resp	341098
Ion	59	100		Lower	Upper
	57	9.7		8.0	12.0

Manual Integrations
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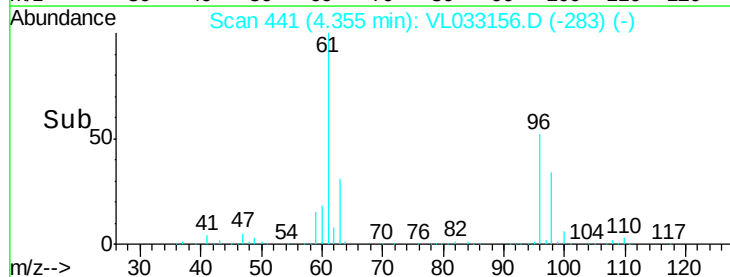
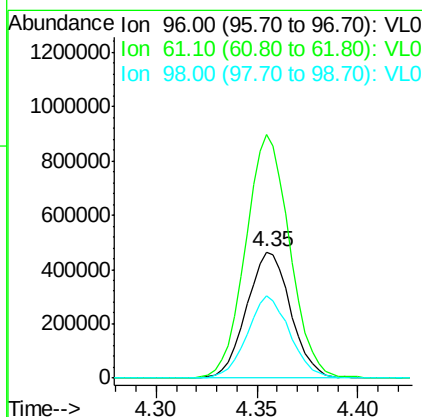
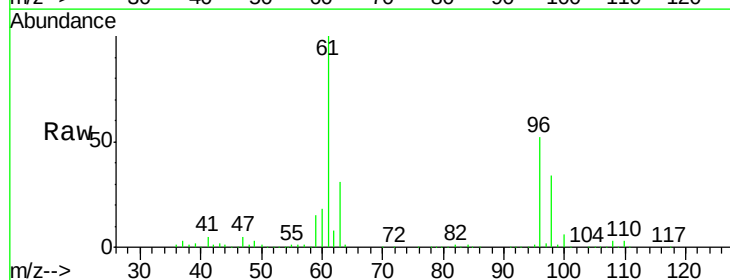
MMDadoda
 2/5/2019 10:27:36 AM

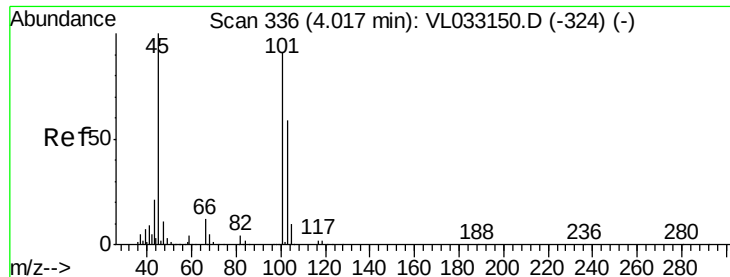


#18

1,1-Dichloroethene
 Concen: 11.059 ppbv
 RT: 4.35 min Scan# 441
 Delta R.T. 0.01 min
 Lab File: VL033156.D
 Acq: 4 Feb 2019 13:51

Tgt Ion	96	Ratio	96.00 (95.70 to 96.70): VL0	Resp	710330
Ion	96	100		Lower	Upper
	61	193.0		158.5	237.7
	98	65.0		47.8	71.6





#19

Isopropyl Alcohol

Concen: 8.583 ppbv

RT: 4.03 min Scan# 340

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 45 Resp: 1101177

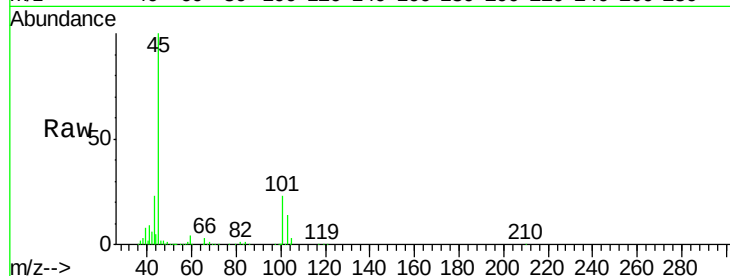
Ion Ratio Lower Upper

45 100

58 1.5 25.1 37.7#

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.03

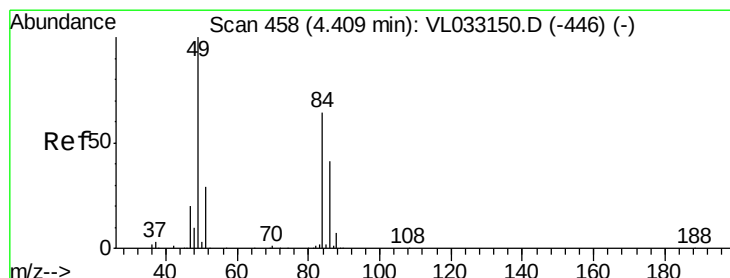
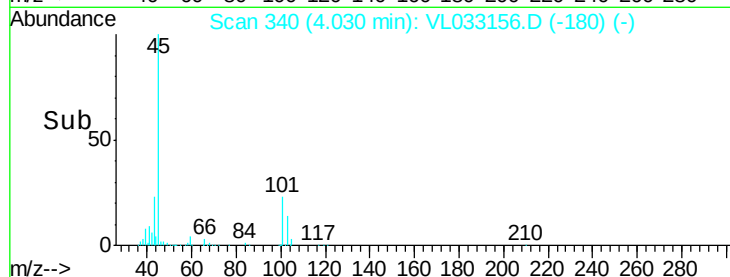
600000

400000

200000

0

Time-->



#20

Methylene Chloride

Concen: 9.204 ppbv

RT: 4.41 min Scan# 459

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Tgt Ion: 84 Resp: 597531

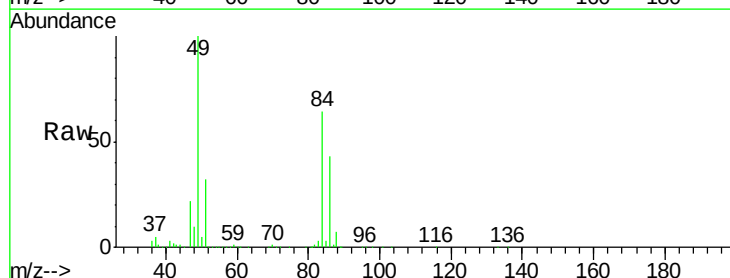
Ion Ratio Lower Upper

84 100

49 156.6 121.1 181.7

51 49.6 37.5 56.3

86 67.3 51.0 76.4



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

800000

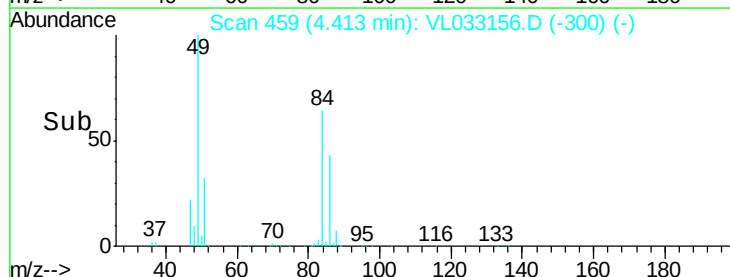
600000

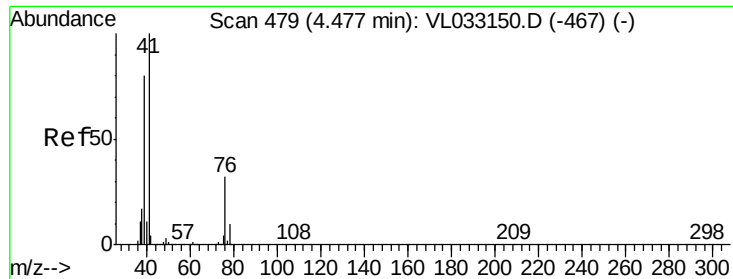
400000

200000

0

Time-->





#21

Allvl Chloride

Concen: 11.045 ppbv

RT: 4.48 min Scan# 481

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 1190678

Ion Ratio Lower Upper

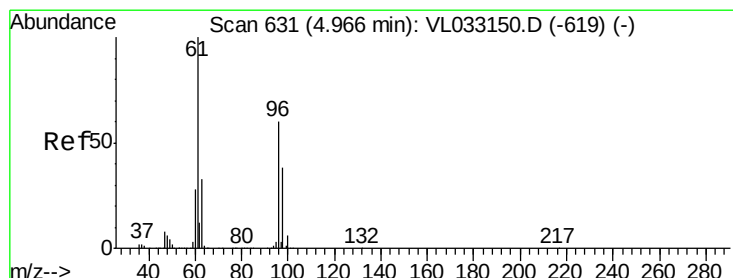
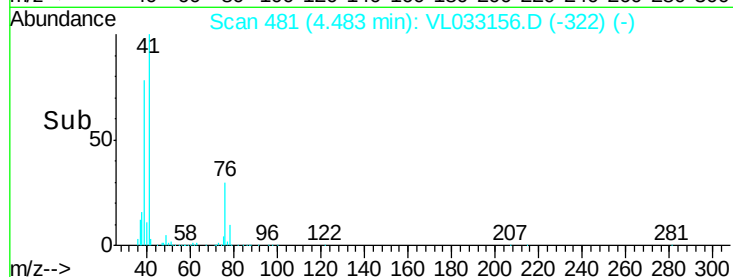
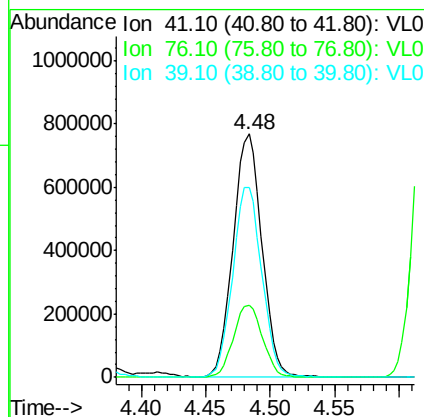
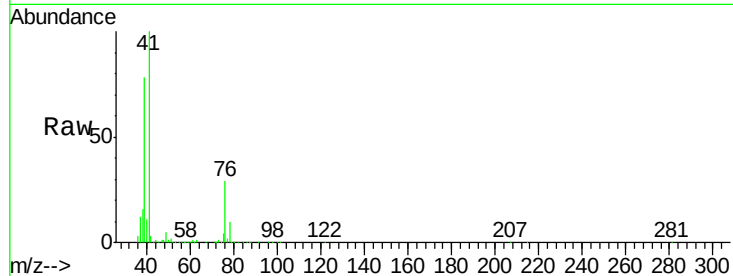
41 100

76 30.2 23.2 34.8

39 78.8 61.8 92.6

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#22

trans-1,2-Dichloroethene

Concen: 11.996 ppbv

RT: 4.97 min Scan# 632

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

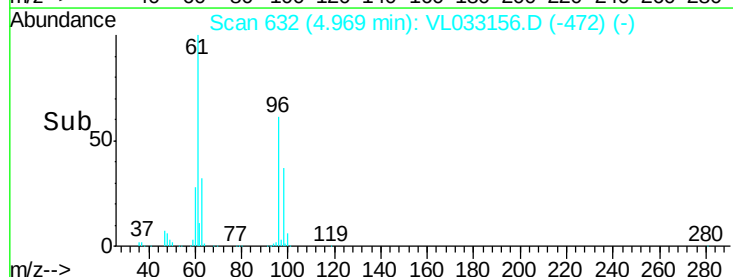
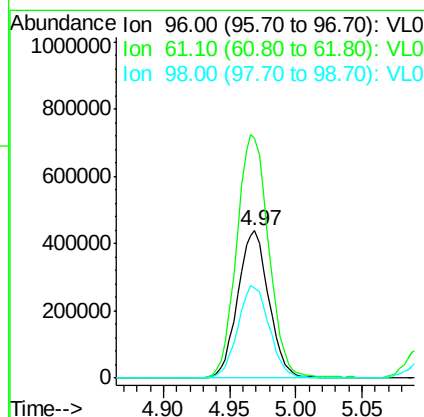
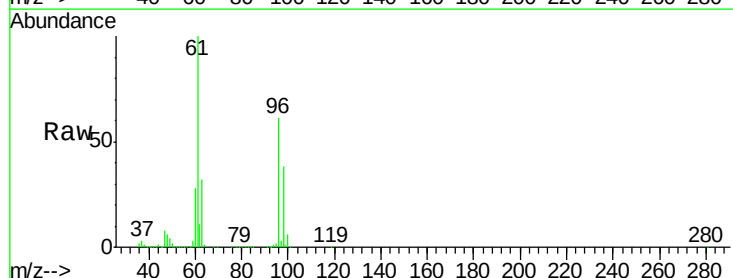
Tgt Ion: 96 Resp: 717978

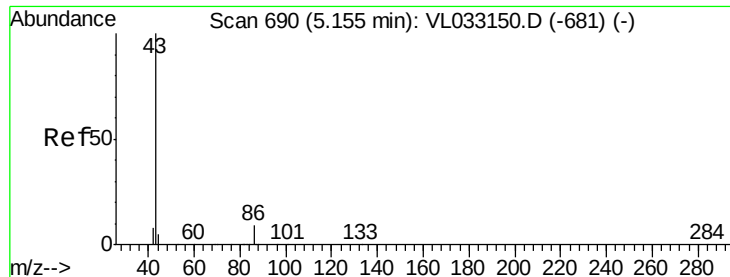
Ion Ratio Lower Upper

96 100

61 162.9 134.5 201.7

98 61.2 50.2 75.2





#23

Vinyl Acetate

Concen: 10.917 ppbv

RT: 5.16 min Scan# 692

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 3181181

Ion Ratio Lower Upper

43 100

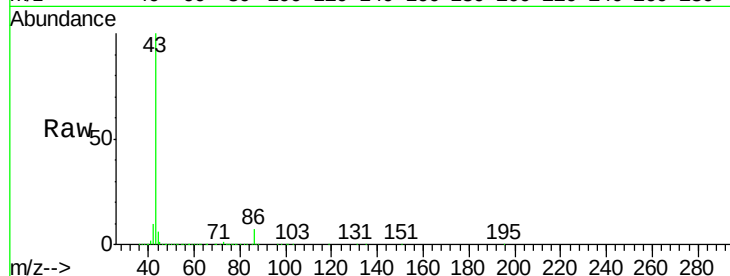
86 7.4 6.2 9.4

42 9.7 7.7 11.5

44 5.3 3.8 5.8

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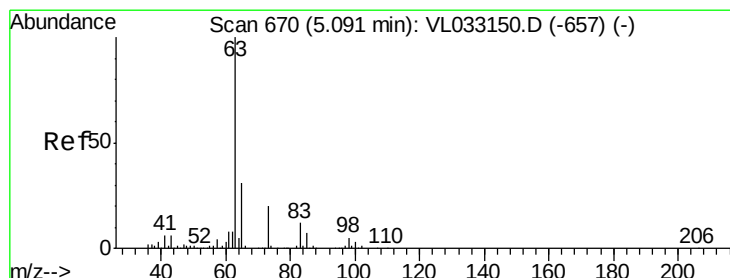
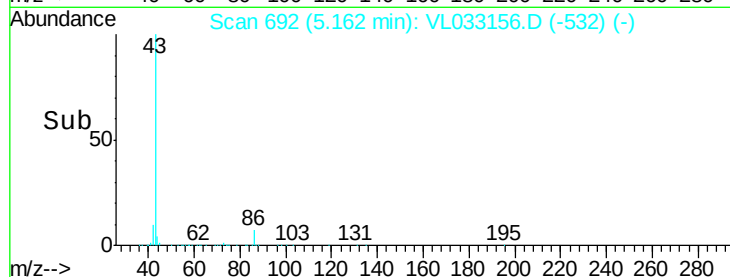
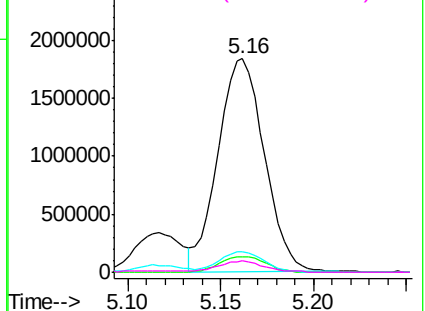


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 10.764 ppbv

RT: 5.10 min Scan# 672

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

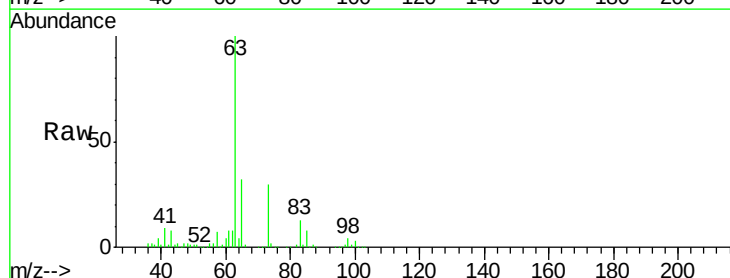
Tgt Ion: 63 Resp: 2092629

Ion Ratio Lower Upper

63 100

98 4.3 2.3 6.9

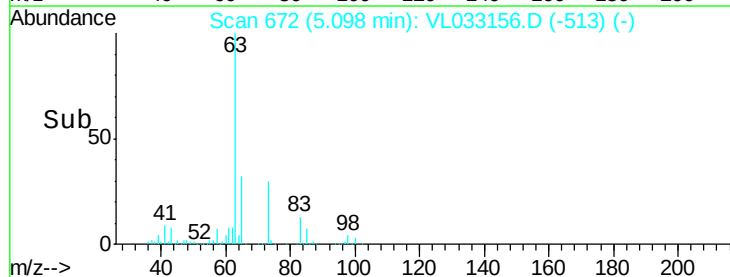
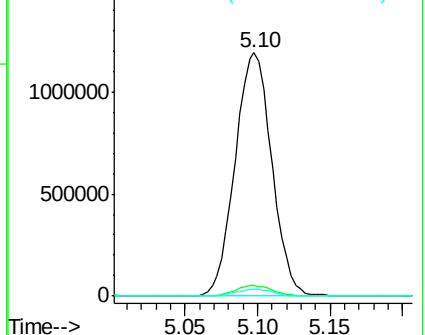
100 2.6 1.3 3.9

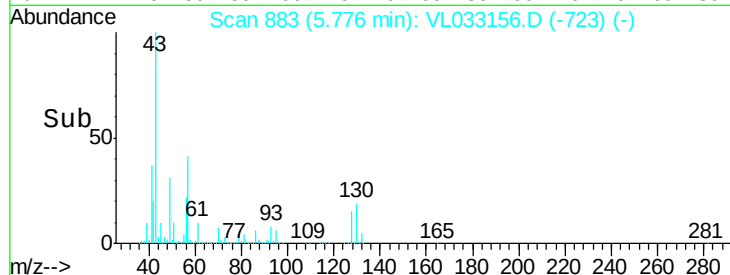
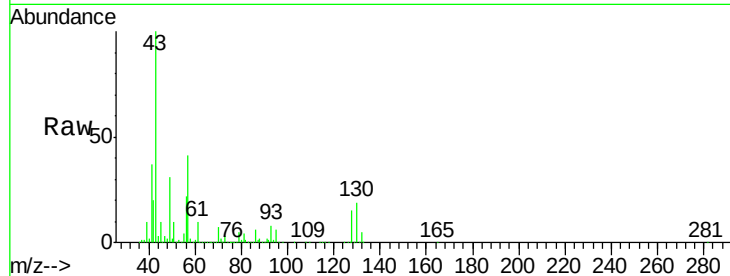
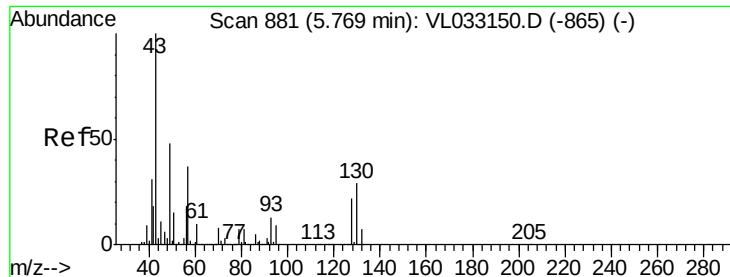


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

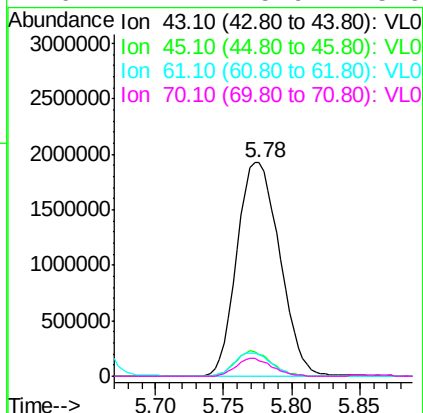
Ion 100.00 (99.70 to 100.70): VL0





#25
Ethyl Acetate
Concen: 11.673 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.01 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

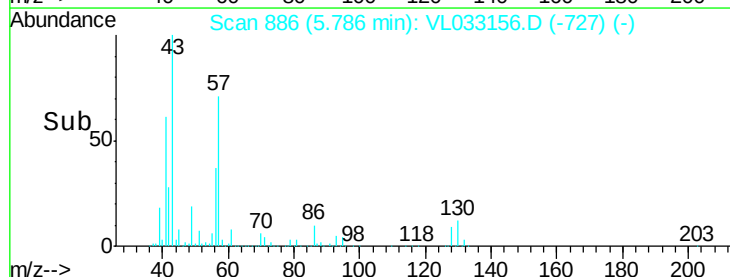
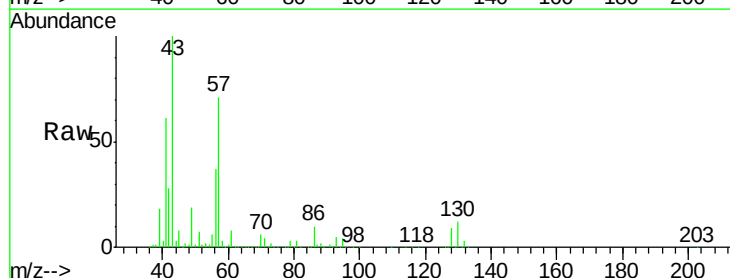
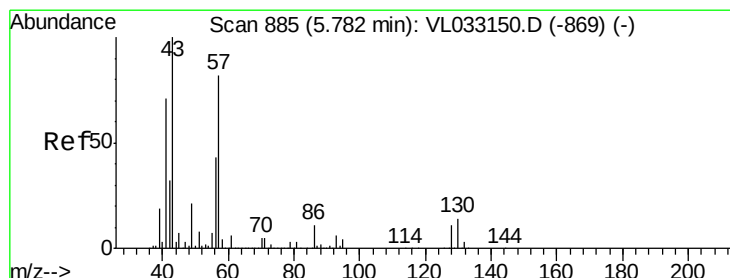
Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.0	8.0	12.0	
61	9.5	7.4	11.2	
70	7.2	5.9	8.9	



Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

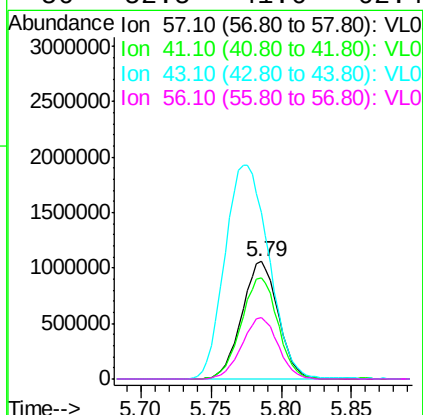
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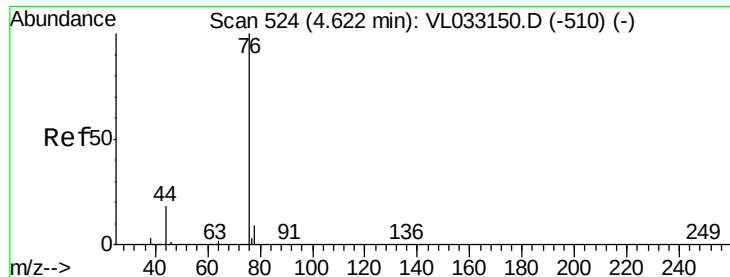
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#26
Hexane
Concen: 10.855 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.01 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	86.8	69.5	104.3	
43	220.7	175.5	263.3	
56	52.5	41.6	62.4	





#27

Carbon Disulfide

Concen: 12.585 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 1788253

Ion Ratio Lower Upper

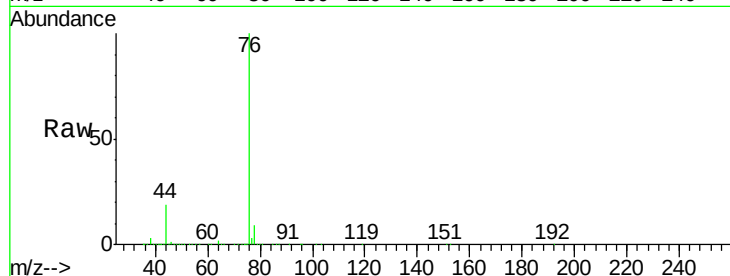
76 100

44 19.4 17.1 25.7

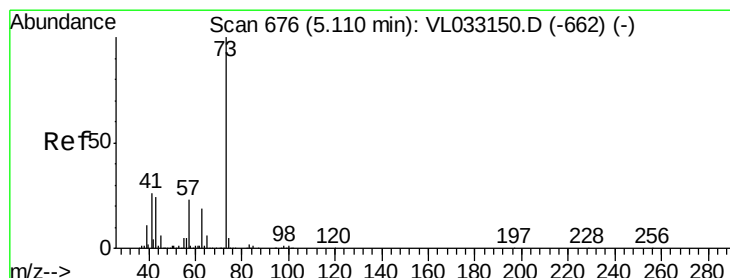
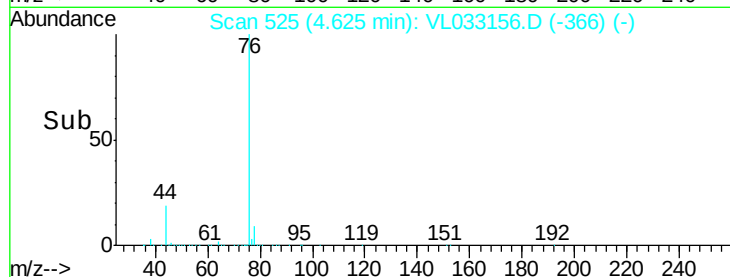
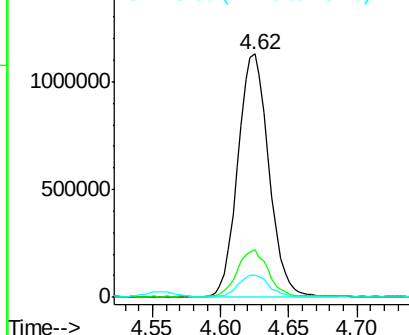
78 9.3 7.2 10.8

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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: 10.280 ppbv

RT: 5.12 min Scan# 678

Delta R.T. 0.01 min

Lab File: VL033156.D

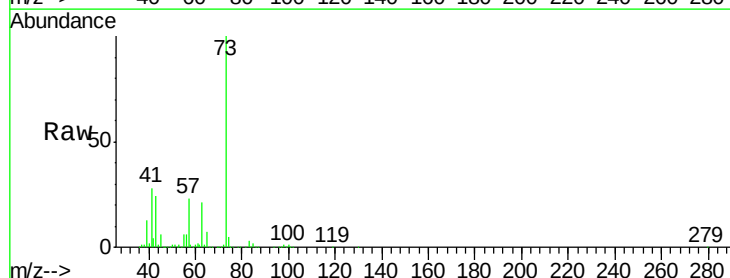
Acq: 4 Feb 2019 13:51

Tgt Ion: 73 Resp: 2600209

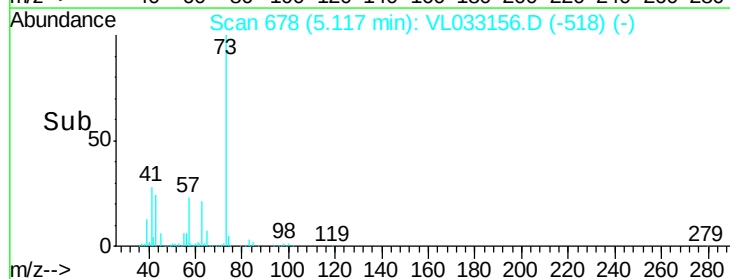
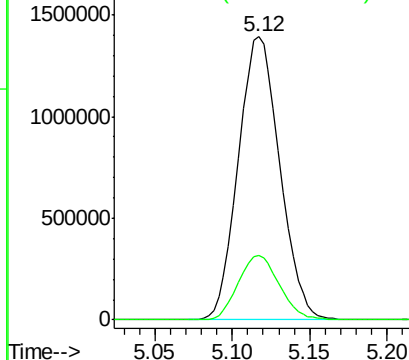
Ion Ratio Lower Upper

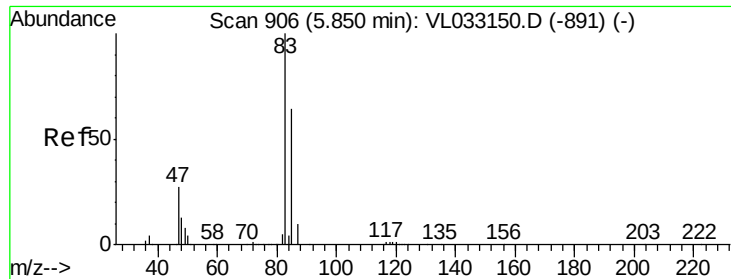
73 100

57 22.7 18.3 27.5



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





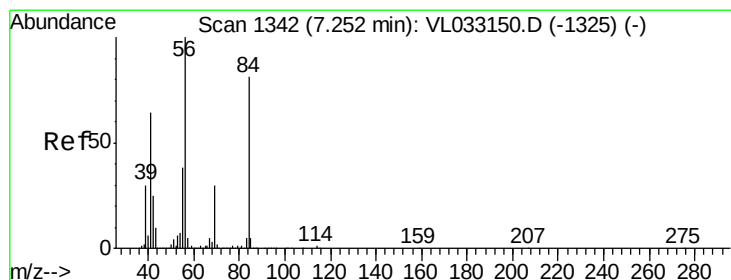
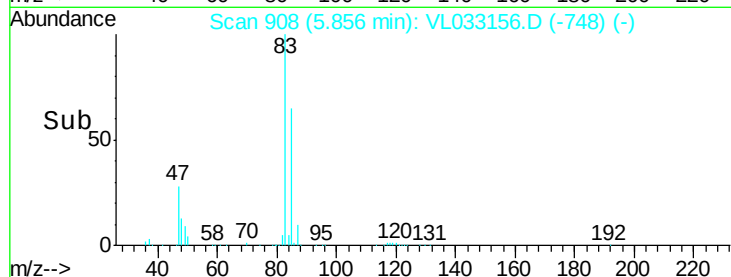
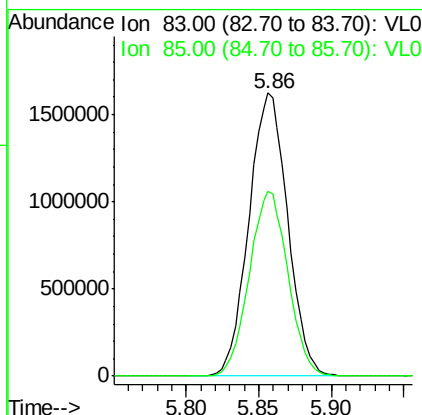
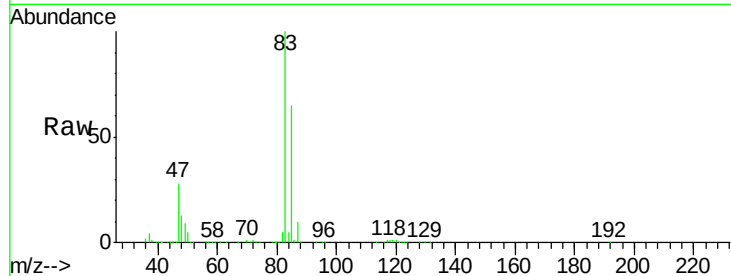
#29
Chloroform
Concen: 12.731 ppbv
RT: 5.86 min Scan# 908
Delta R.T. 0.01 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 3026091
Ion Ratio Lower Upper
83 100
85 65.4 51.6 77.4

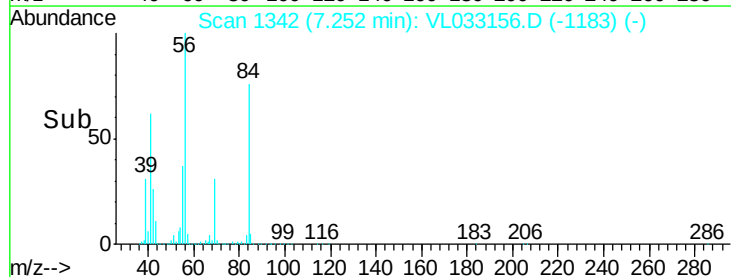
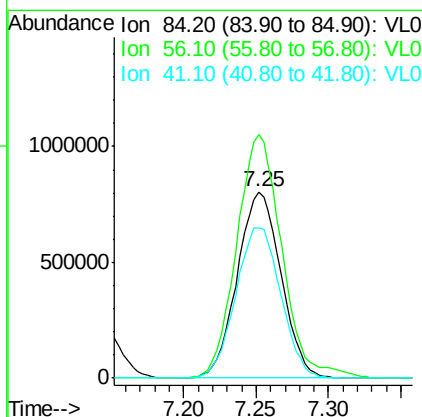
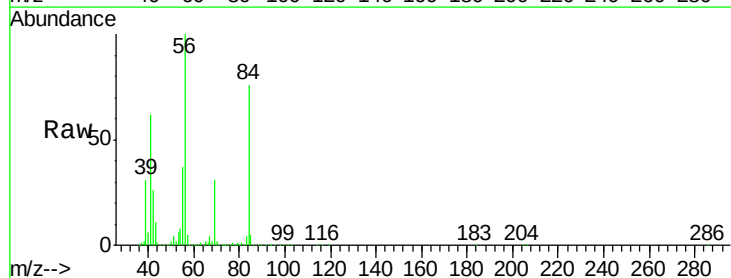
Manual Integrations
APPROVED

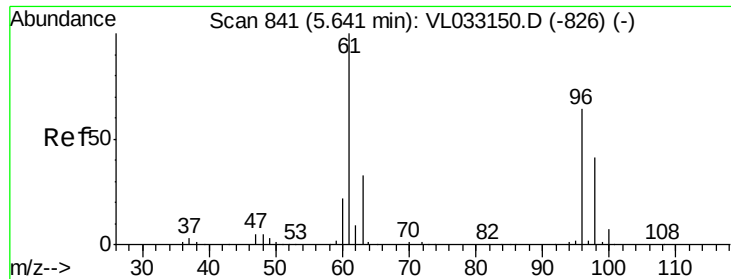
MMDadoda
2/5/2019 10:27:36 AM



#30
Cyclohexane
Concen: 12.354 ppbv
RT: 7.25 min Scan# 1342
Delta R.T. 0.01 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

Tgt Ion: 84 Resp: 1685461
Ion Ratio Lower Upper
84 100
56 135.7 109.0 163.4
41 83.4 65.3 97.9





#31

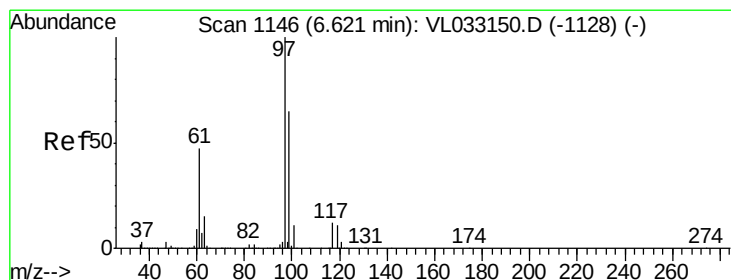
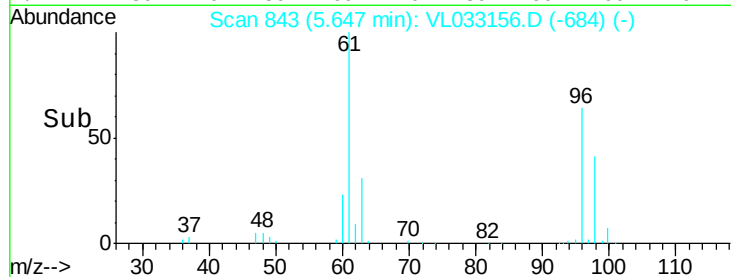
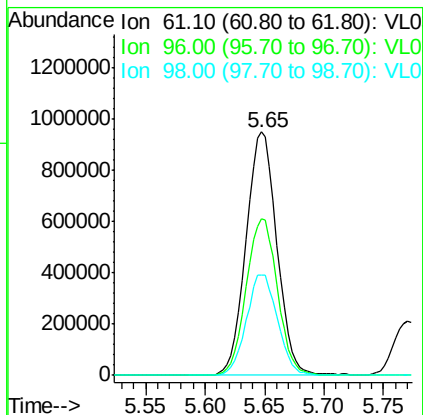
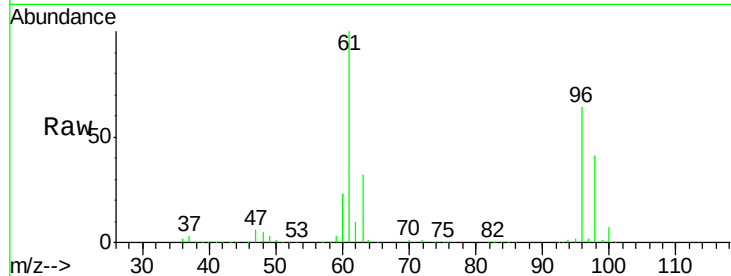
cis-1,2-Dichloroethene
Concen: 10.600 ppbv
RT: 5.65 min Scan# 843
Delta R.T. 0.01 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 61 Resp: 1703445
Ion Ratio Lower Upper
61 100
96 64.1 53.3 79.9
98 41.0 33.7 50.5

Manual Integrations
APPROVED

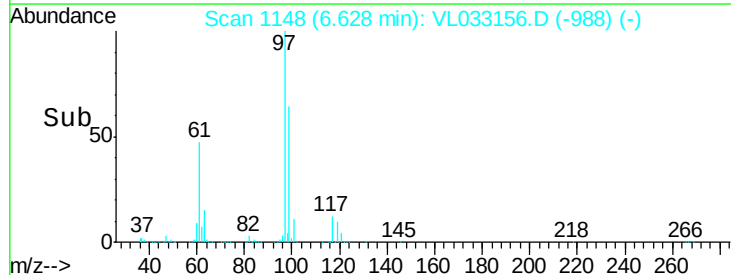
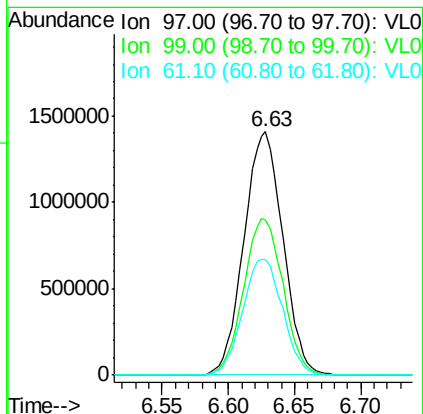
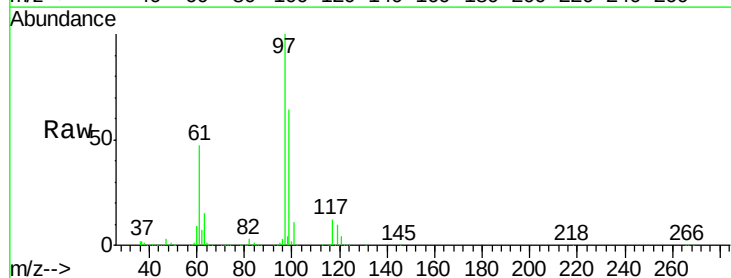
MMDadoda
2/5/2019 10:27:36 AM

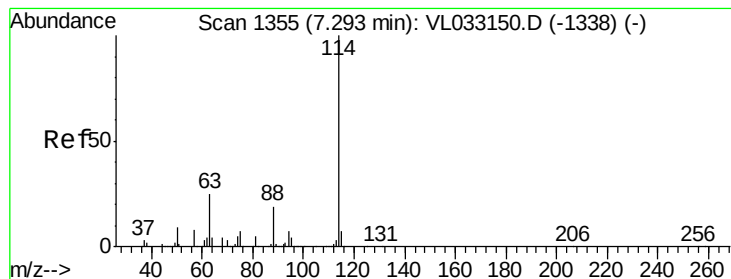


#32

1,1,1-Trichloroethane
Concen: 11.750 ppbv
RT: 6.63 min Scan# 1148
Delta R.T. 0.01 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

Tgt Ion: 97 Resp: 2883952
Ion Ratio Lower Upper
97 100
99 65.1 65.1 97.7#
61 48.7 47.7 71.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.30 min Scan# 1357

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:114 Resp: 3153795

Ion Ratio Lower Upper

114 100

63 26.8 20.0 30.0

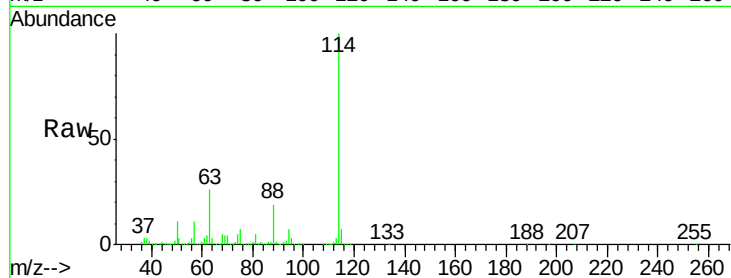
88 18.5 14.4 21.6

Manual Integrations

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MMDadoda

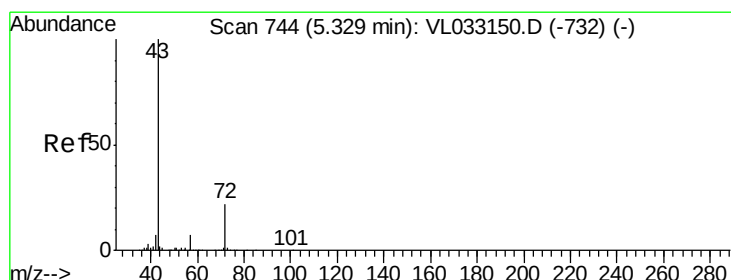
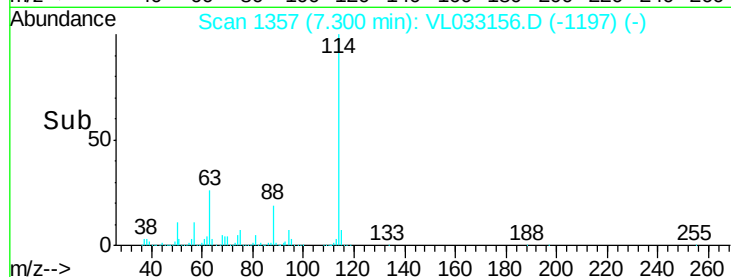
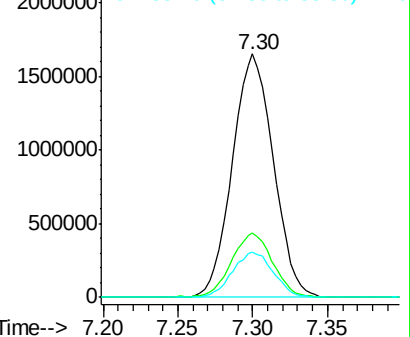
2/5/2019 10:27:36 AM



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 10.237 ppbv

RT: 5.33 min Scan# 745

Delta R.T. 0.01 min

Lab File: VL033156.D

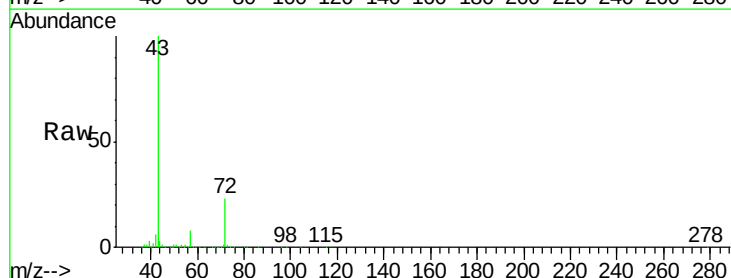
Acq: 4 Feb 2019 13:51

Tgt Ion: 43 Resp: 2467956

Ion Ratio Lower Upper

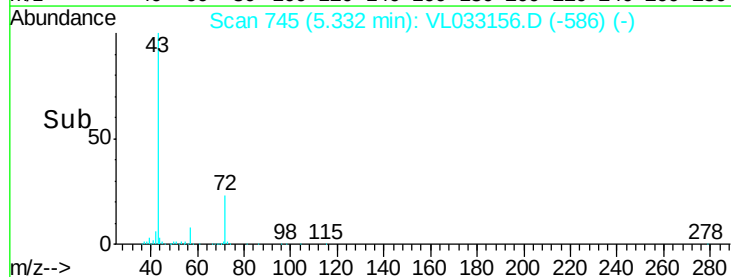
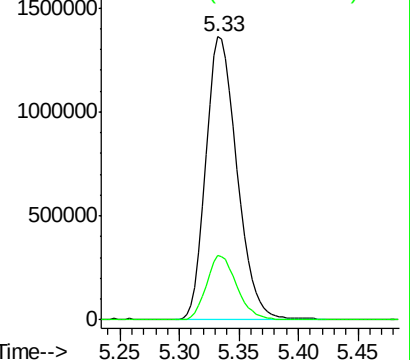
43 100

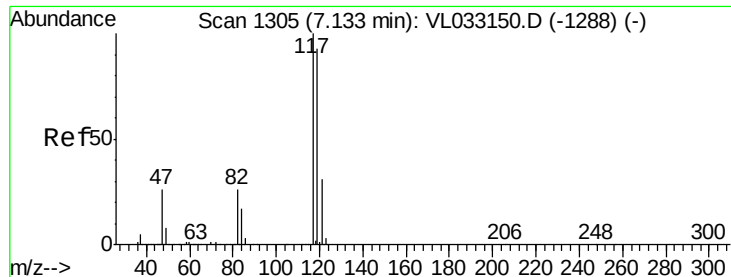
72 22.3 17.9 26.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 12.172 ppbv

RT: 7.14 min Scan# 1307

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 2880279

Ion Ratio Lower Upper

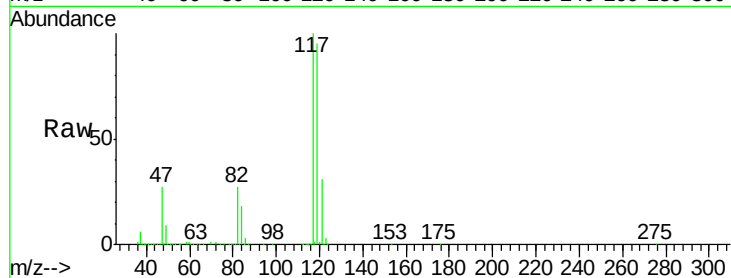
117 100

119 95.5 76.6 114.8

121 31.1 25.0 37.4

Manual Integrations
APPROVED

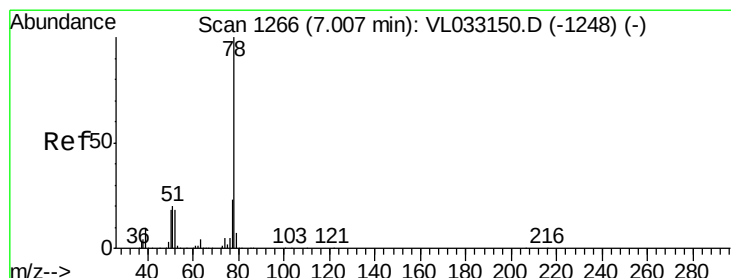
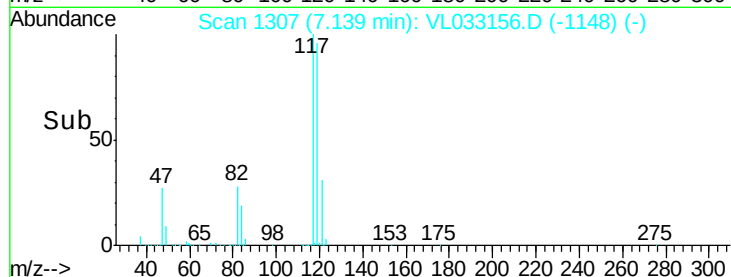
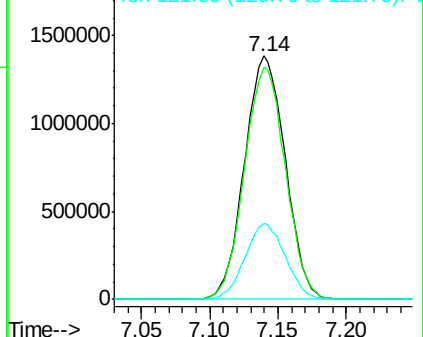
MMDadoda
2/5/2019 10:27:36 AM



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: 11.577 ppbv

RT: 7.01 min Scan# 1267

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

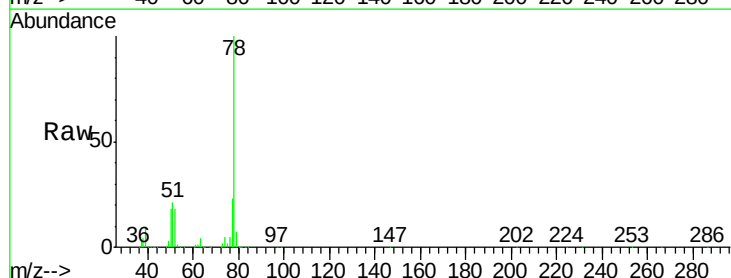
Tgt Ion: 78 Resp: 4094589

Ion Ratio Lower Upper

78 100

77 23.4 17.8 26.6

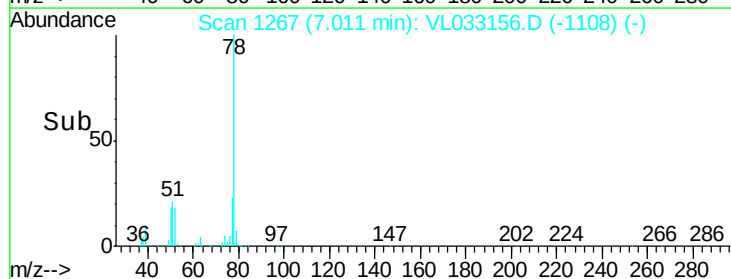
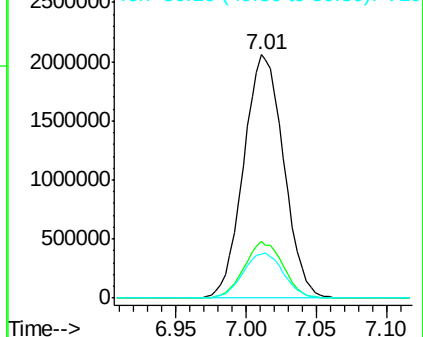
50 18.1 14.7 22.1

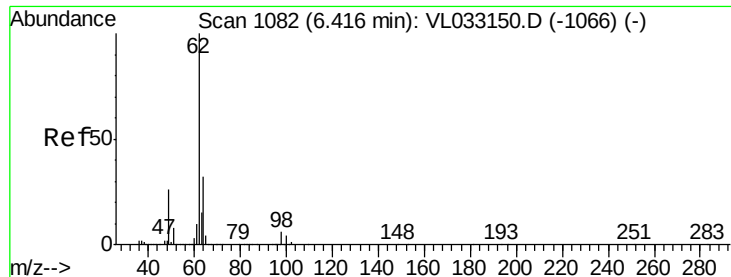


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





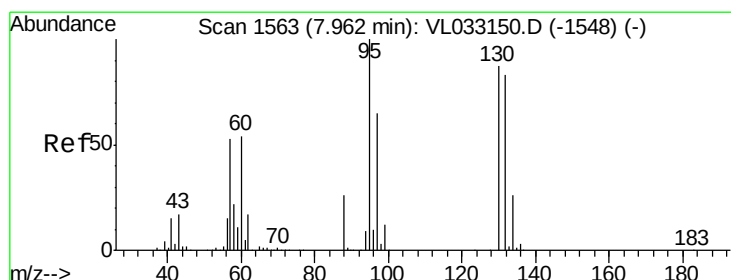
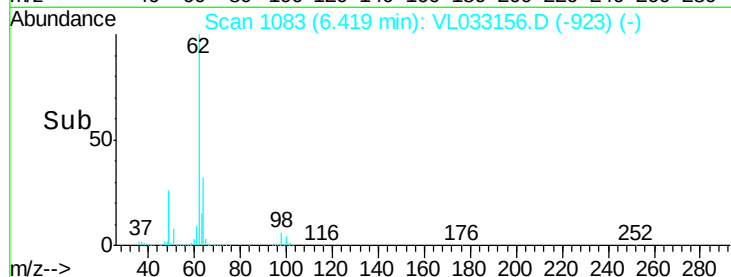
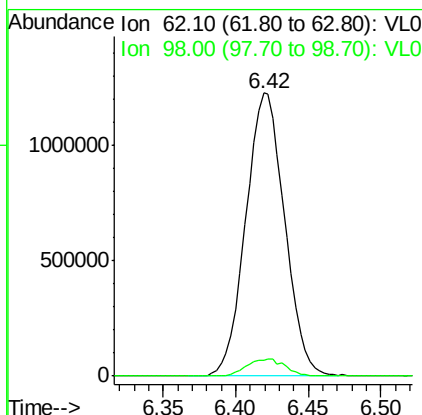
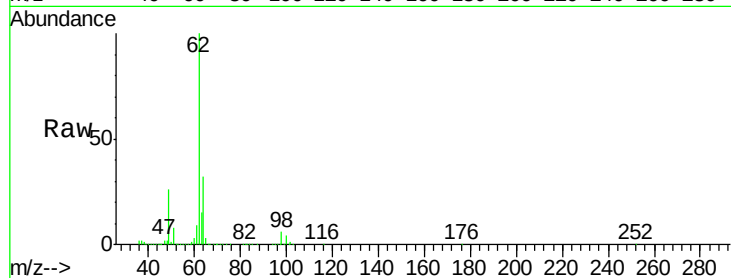
#37
 1,2-Dichloroethane
 Concen: 12.722 ppbv
 RT: 6.42 min Scan# 1083
 Delta R.T. 0.01 min
 Lab File: VL033156.D
 Acq: 4 Feb 2019 13:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.2	5.3	7.9

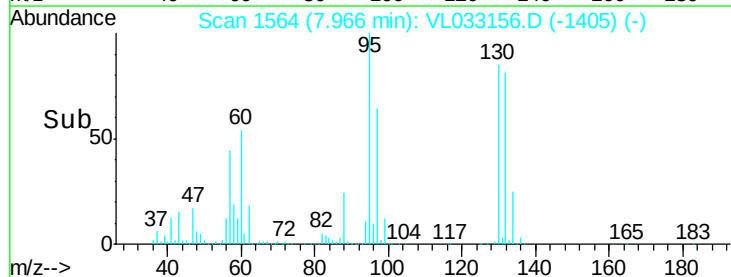
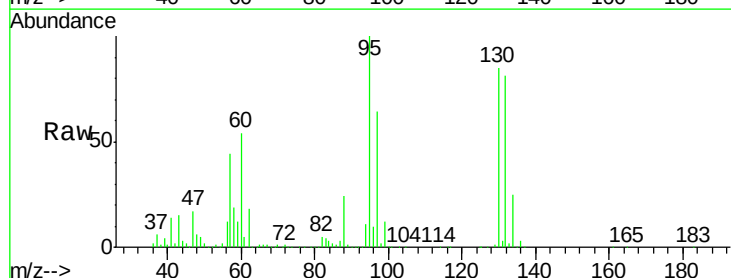
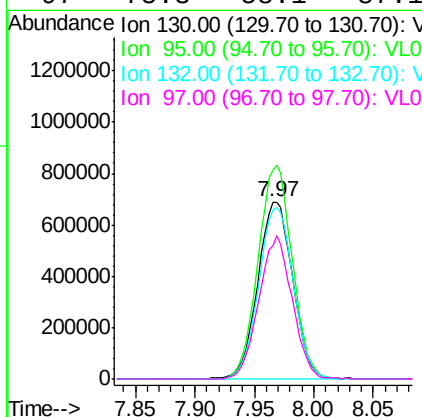
Manual Integrations
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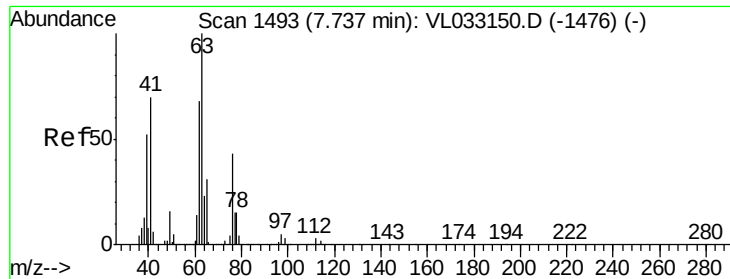
MMDadoda
 2/5/2019 10:27:36 AM



#38
 Trichloroethene
 Concen: 9.841 ppbv
 RT: 7.97 min Scan# 1564
 Delta R.T. 0.01 min
 Lab File: VL033156.D
 Acq: 4 Feb 2019 13:51

Tgt Ion	Ratio	Lower	Upper
130	100		
95	118.1	91.6	137.4
132	95.1	79.0	118.4
97	75.3	58.1	87.1





#39

1,2-Dichloropropane

Concen: 12.425 ppbv

RT: 7.74 min Scan# 1494

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 63 Resp: 1610599

Ion Ratio Lower Upper

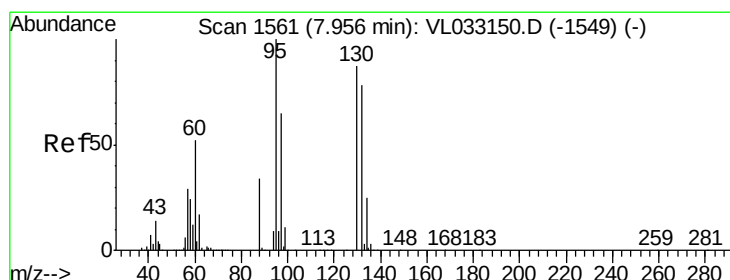
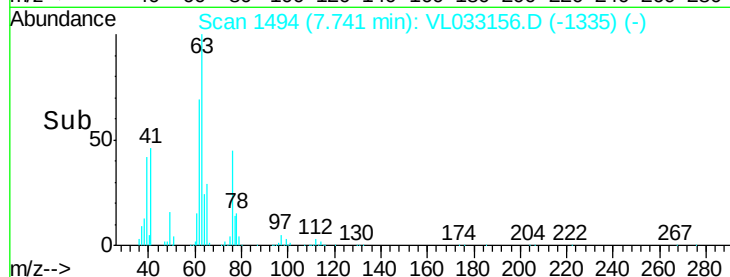
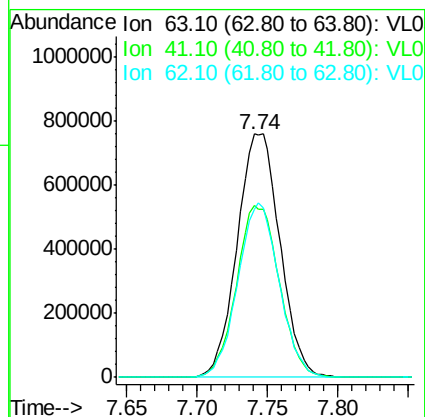
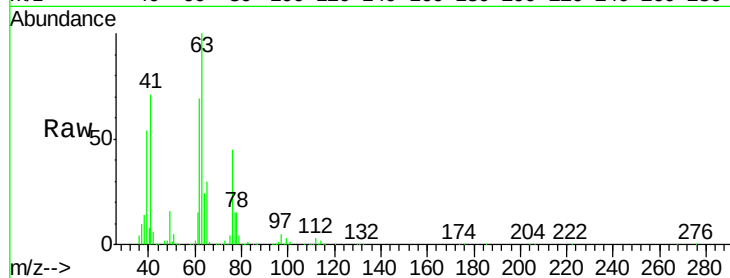
63 100

41 70.5 53.2 79.8

62 68.8 54.4 81.6

Manual Integrations
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MMDadoda
2/5/2019 10:27:36 AM



#40

1,4-Dioxane

Concen: 10.996 ppbv

RT: 7.96 min Scan# 1562

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Tgt Ion: 88 Resp: 501914

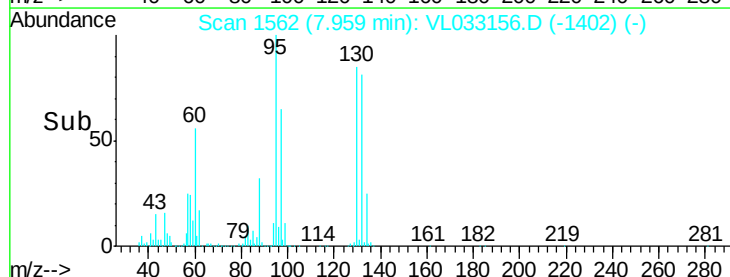
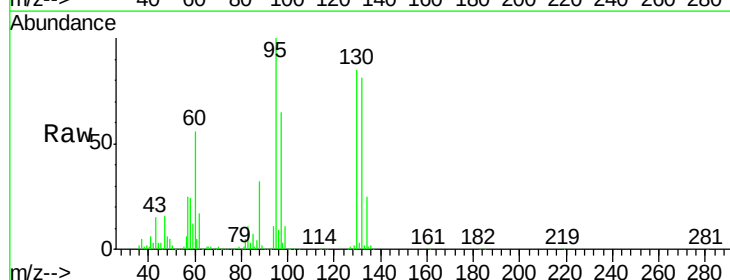
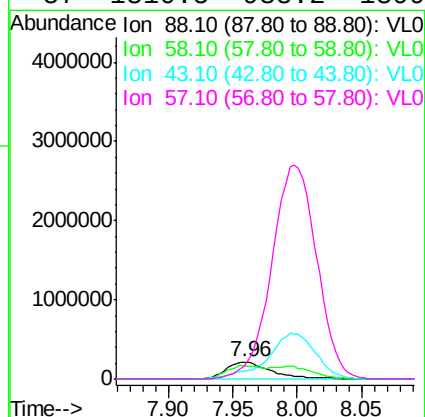
Ion Ratio Lower Upper

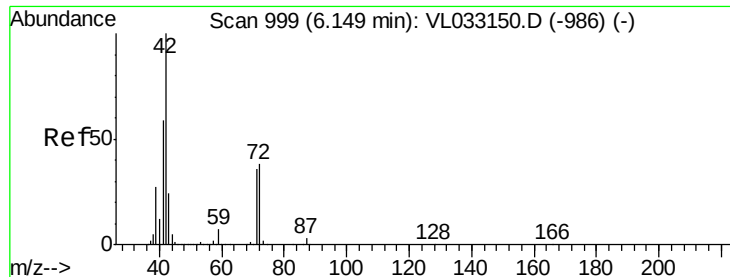
88 100

58 136.6 103.4 155.2

43 297.4 210.8 316.2

57 1310.5 933.2 1399.8





#41

Tetrahydrofuran

Concen: 12.111 ppbv

RT: 6.15 min Scan# 1000

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 42 Resp: 1754040

Ion Ratio Lower Upper

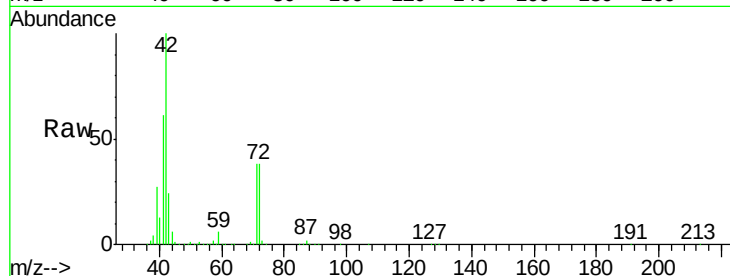
42 100

72 37.6 30.2 45.4

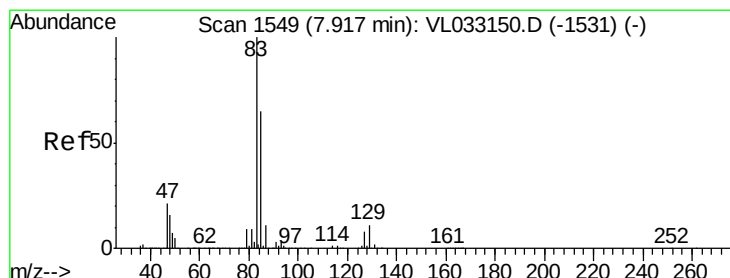
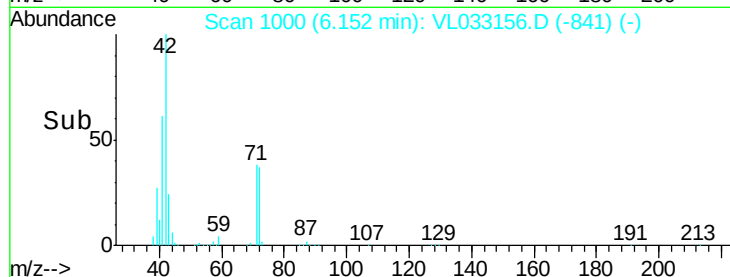
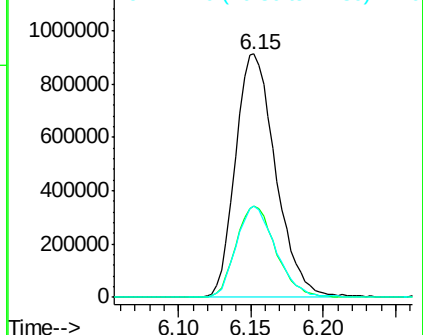
71 37.2 28.8 43.2

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



#42

Bromodichloromethane

Concen: 12.657 ppbv

RT: 7.92 min Scan# 1551

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

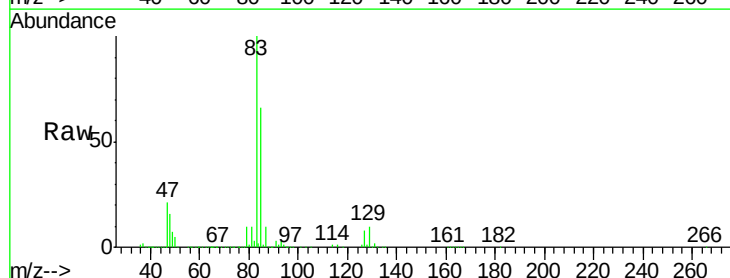
Tgt Ion: 83 Resp: 3248939

Ion Ratio Lower Upper

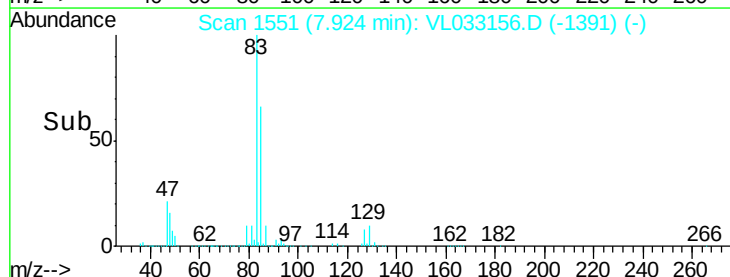
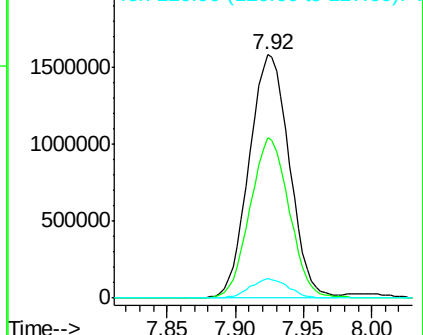
83 100

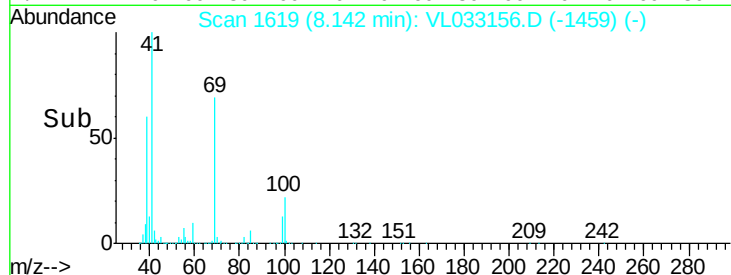
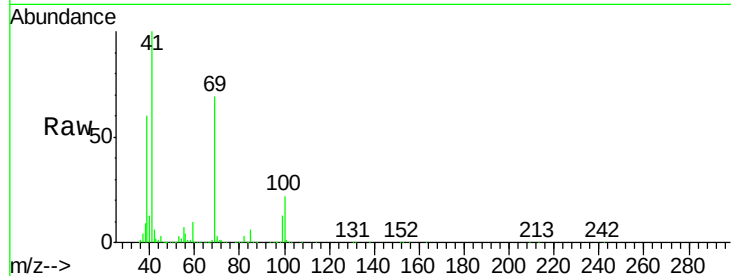
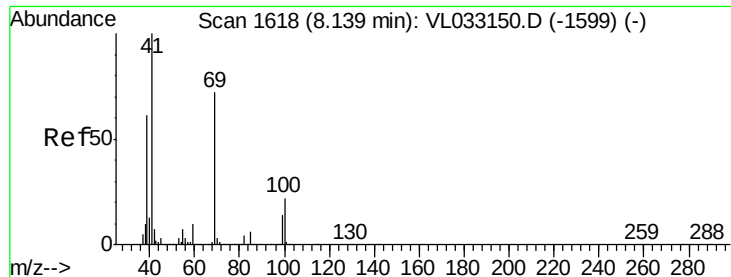
85 65.9 51.3 76.9

127 7.9 6.1 9.1



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





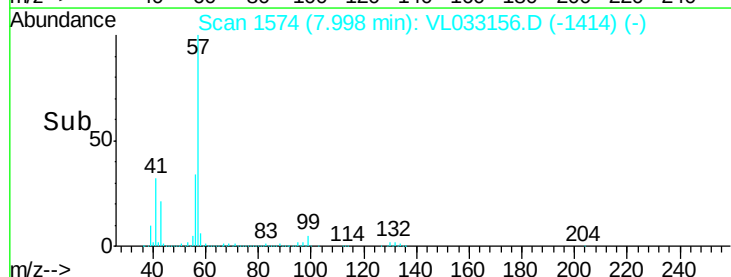
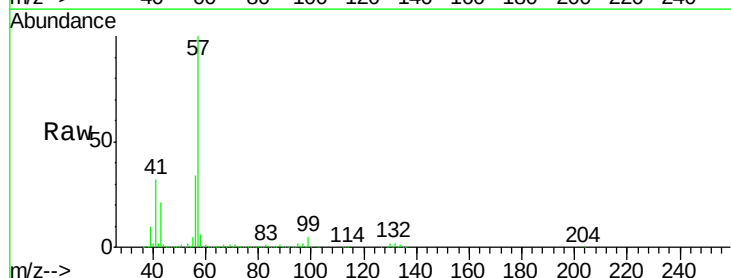
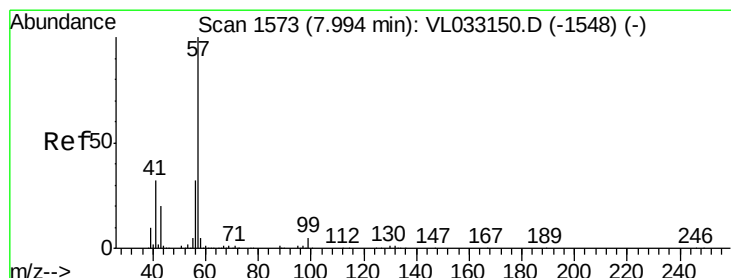
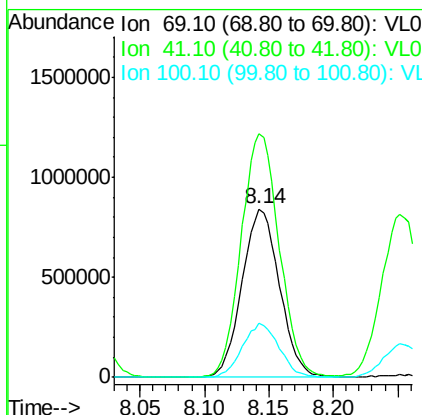
#43
Methyl Methacrylate
Concen: 13.746 ppbv
RT: 8.14 min Scan# 1619
Delta R.T. 0.01 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

Tot Ion: 69 Resp: 1703301
Ion Ratio Lower Upper
69 100
41 146.9 118.4 177.6
100 31.4 26.5 39.7

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

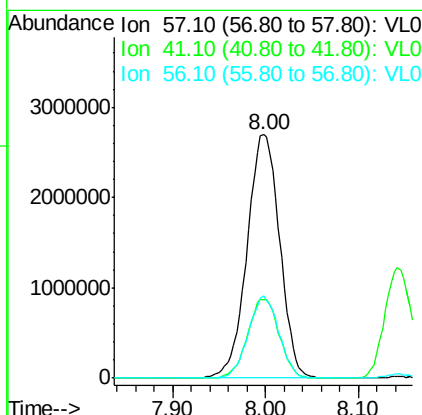
Manual Integrations
APPROVED

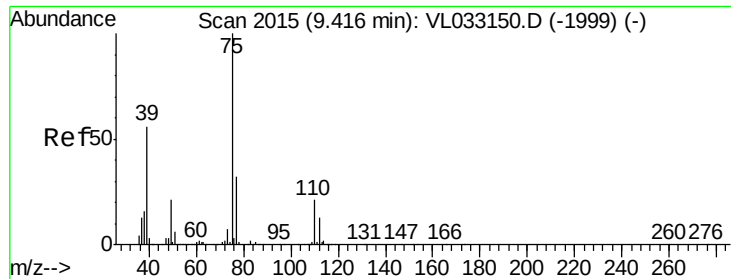
MMDadoda
2/5/2019 10:27:36 AM



#44
2,2,4-Trimethylpentane
Concen: 11.516 ppbv
RT: 8.00 min Scan# 1574
Delta R.T. 0.01 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

Tgt Ion: 57 Resp: 6572004
Ion Ratio Lower Upper
57 100
41 31.5 24.6 36.8
56 31.5 24.9 37.3





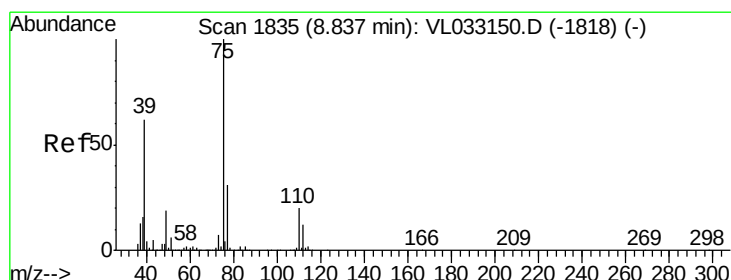
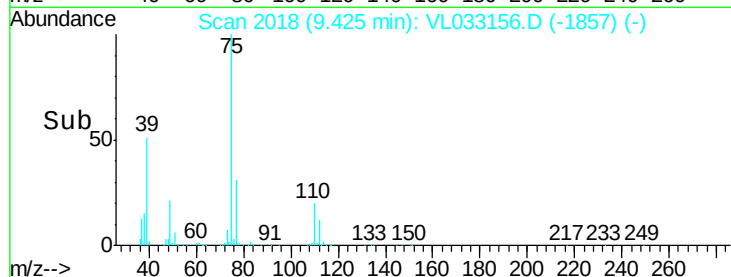
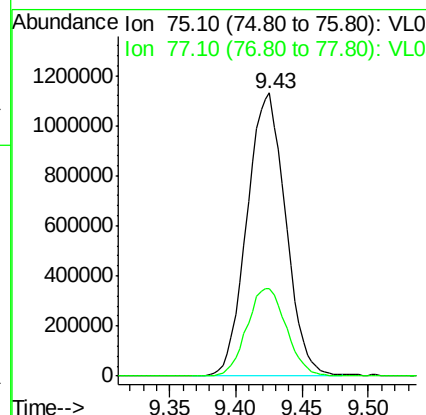
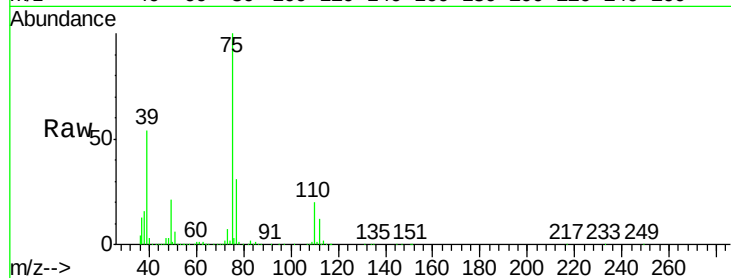
#45
 t-1,3-Dichloropropene
 Concen: 15.338 ppbv
 RT: 9.43 min Scan# 2018
 Delta R.T. 0.02 min
 Lab File: VL033156.D
 Acq: 4 Feb 2019 13:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 75 Resp: 2296061
 Ion Ratio Lower Upper
 75 100
 77 30.9 24.4 36.6

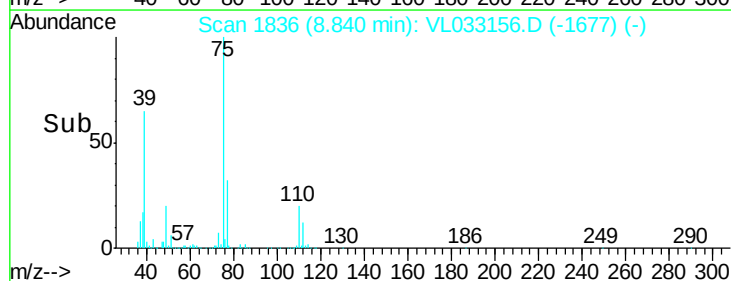
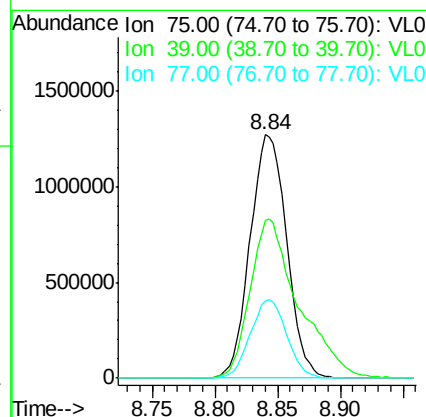
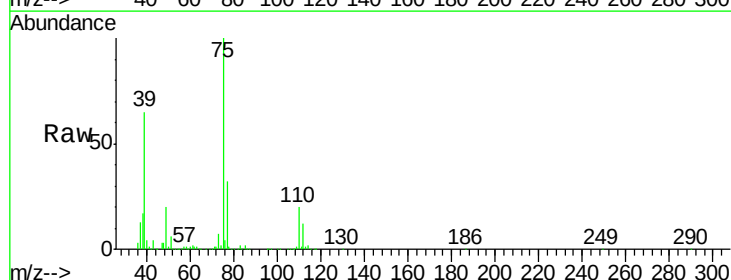
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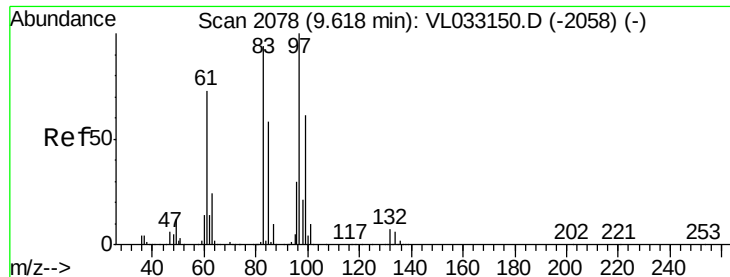
MMDadoda
 2/5/2019 10:27:36 AM



#46
 cis-1,3-Dichloropropene
 Concen: 14.379 ppbv
 RT: 8.84 min Scan# 1836
 Delta R.T. 0.01 min
 Lab File: VL033156.D
 Acq: 4 Feb 2019 13:51

Tgt Ion: 75 Resp: 2580809
 Ion Ratio Lower Upper
 75 100
 39 64.8 51.4 77.2
 77 31.9 25.4 38.0





#47

1,1,2-Trichloroethane

Concen: 13.776 ppbv

RT: 9.62 min Scan# 2079

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 97 Resp: 1628773

Ion Ratio Lower Upper

97 100

83 92.6 65.8 98.8

85 59.2 44.7 67.1

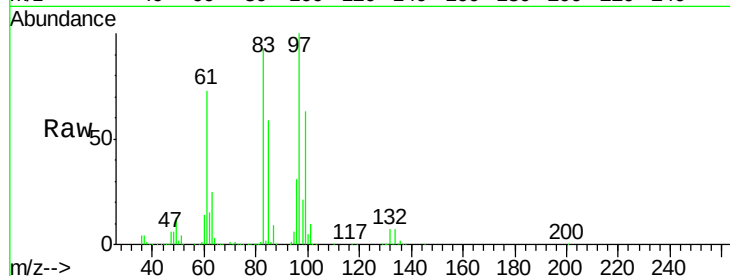
99 63.5 48.6 73.0

Manual Integrations

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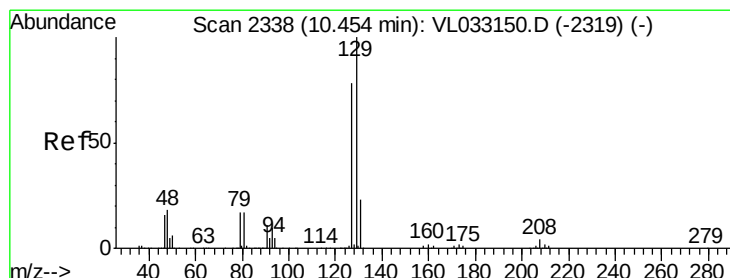
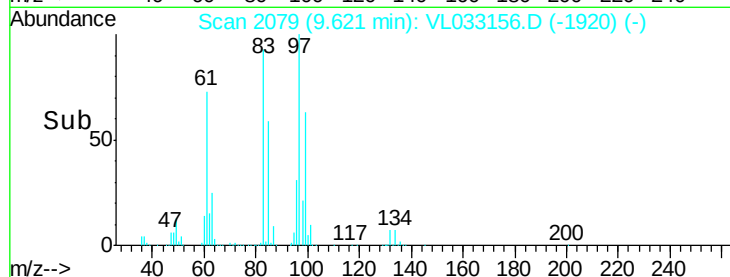
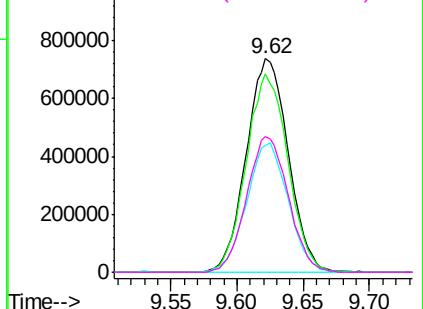


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 13.726 ppbv

RT: 10.46 min Scan# 2340

Delta R.T. 0.02 min

Lab File: VL033156.D

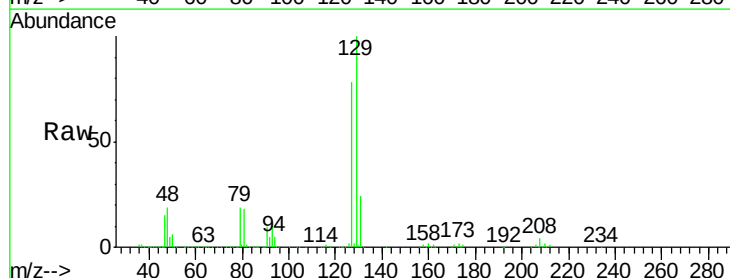
Acq: 4 Feb 2019 13:51

Tgt Ion: 129 Resp: 2705132

Ion Ratio Lower Upper

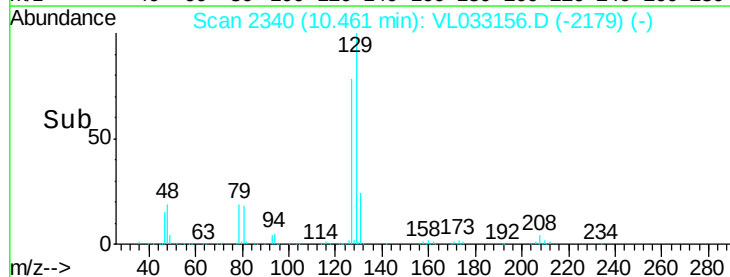
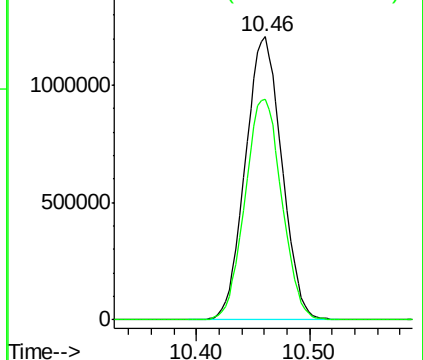
129 100

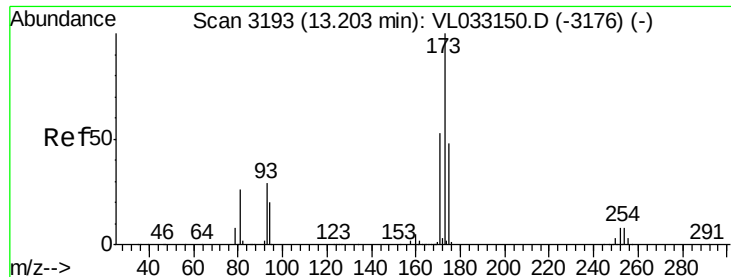
127 78.7 39.3 117.9



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 13.725 ppbv

RT: 13.21 min Scan# 3195

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:173 Resp: 2244189

Ion Ratio Lower Upper

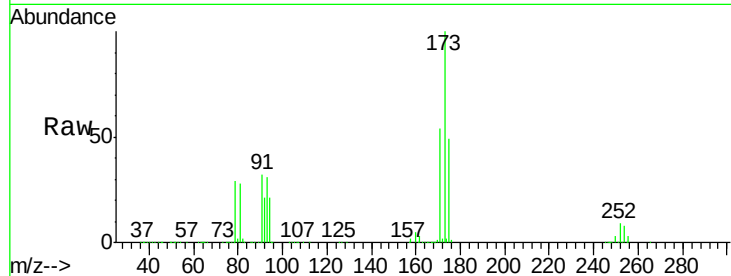
173 100

175 48.3 39.3 58.9

171 52.4 41.8 62.6

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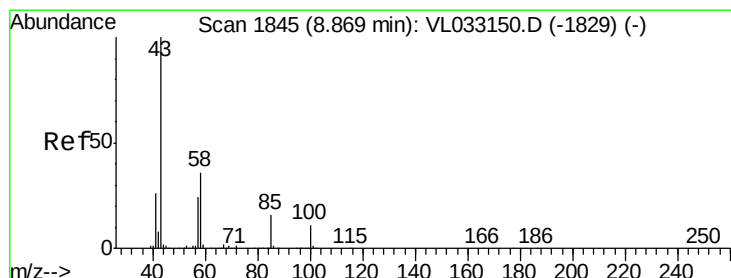
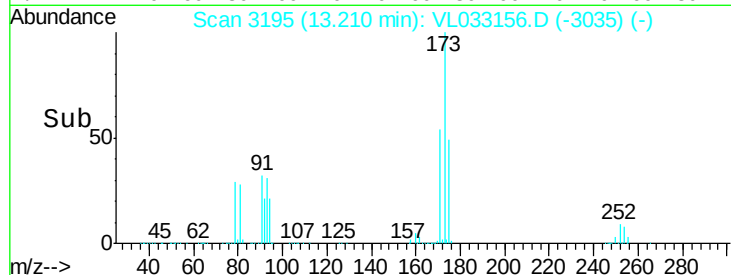
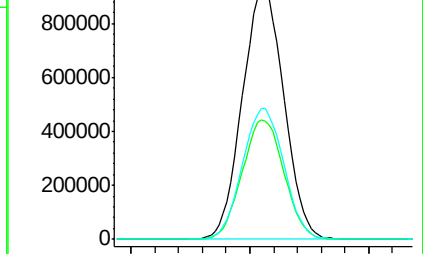
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 13.275 ppbv

RT: 8.88 min Scan# 1847

Delta R.T. 0.01 min

Lab File: VL033156.D

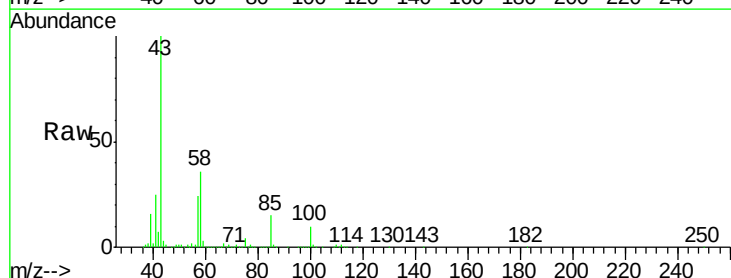
Acq: 4 Feb 2019 13:51

Tgt Ion: 43 Resp: 4156837

Ion Ratio Lower Upper

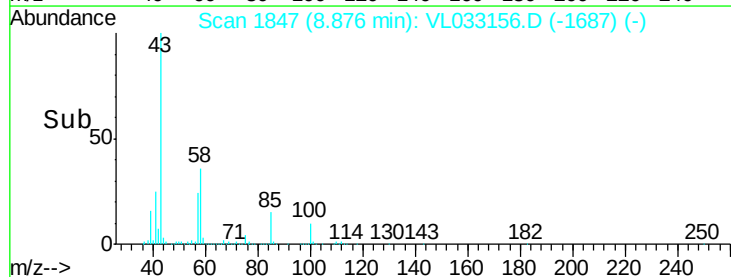
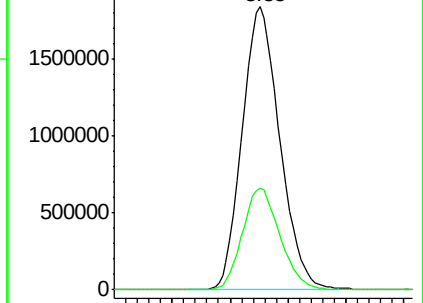
43 100

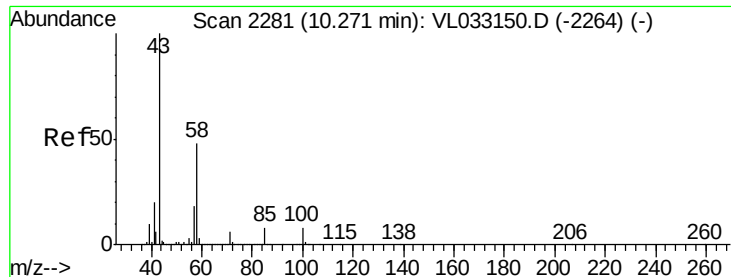
58 36.1 28.7 43.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 12.278 ppbv

RT: 10.28 min Scan# 2283

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 3425063

Ion Ratio Lower Upper

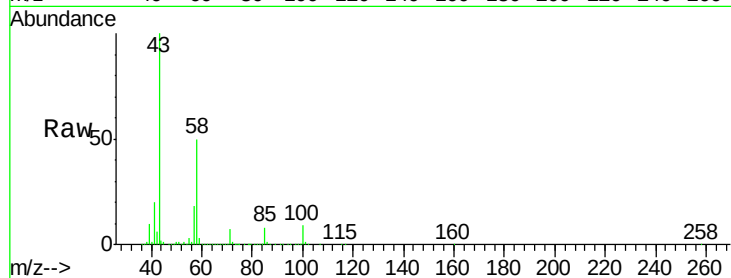
43 100

58 49.6 39.4 59.2

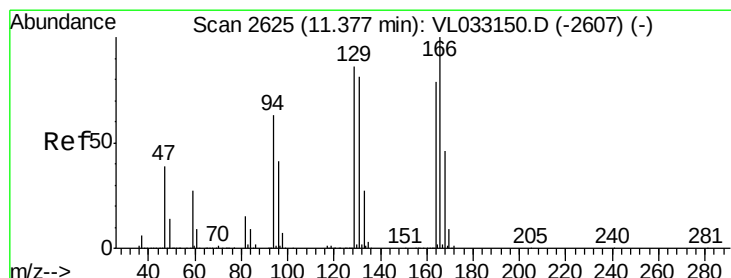
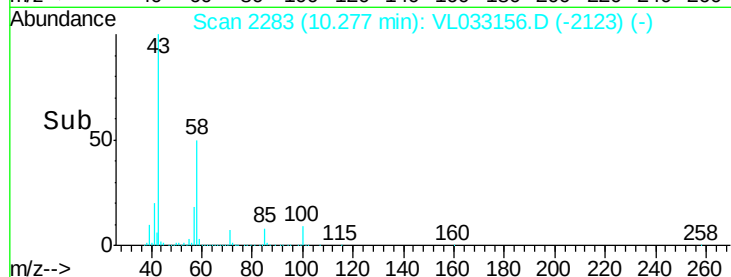
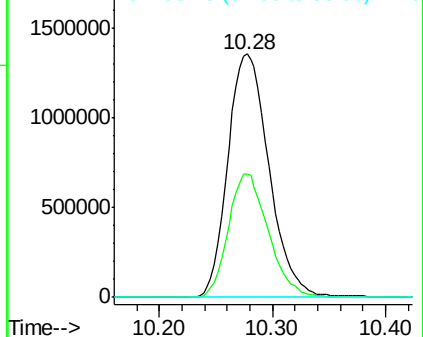
98 0.0 0.1 0.1#

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



#52

Tetrachloroethene

Concen: 9.808 ppbv

RT: 11.38 min Scan# 2625

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Tgt Ion:164 Resp: 1315866

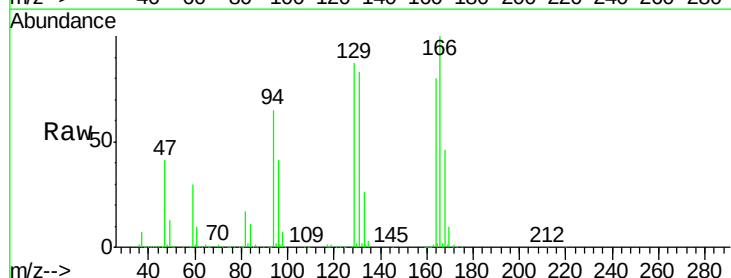
Ion Ratio Lower Upper

164 100

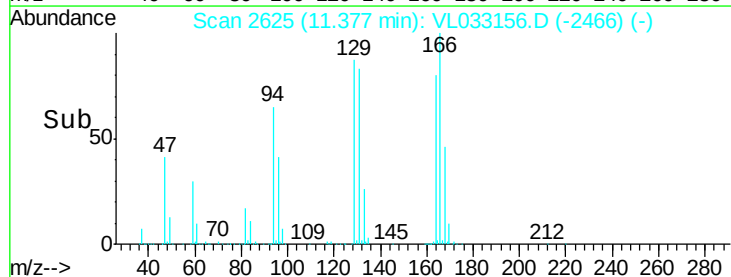
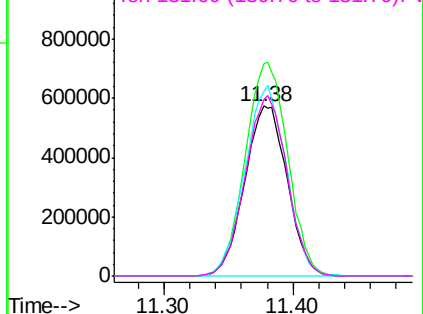
166 125.2 98.6 148.0

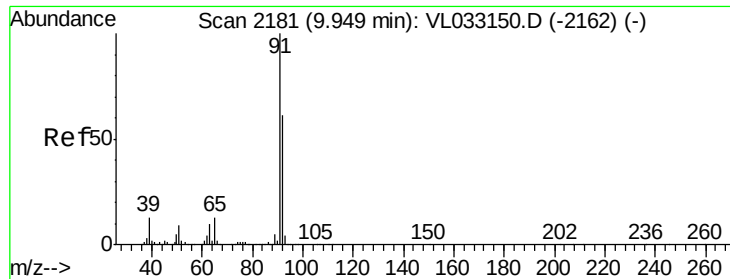
129 108.3 86.3 129.5

131 104.0 83.7 125.5



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





#53

Toluene

Concen: 11.657 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. 0.02 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 4720415

Ion Ratio Lower Upper

91 100

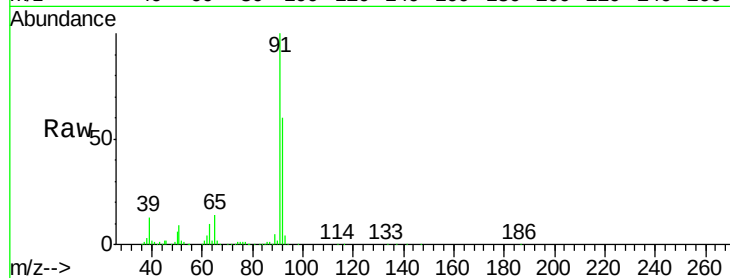
92 60.7 48.9 73.3

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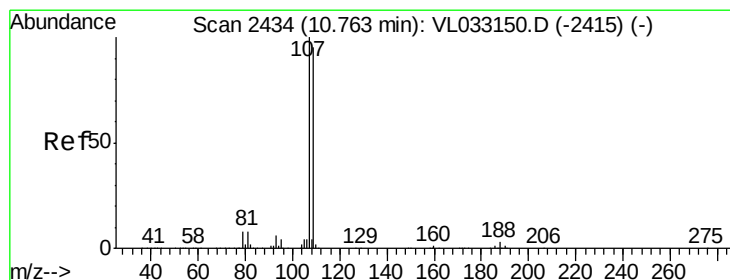
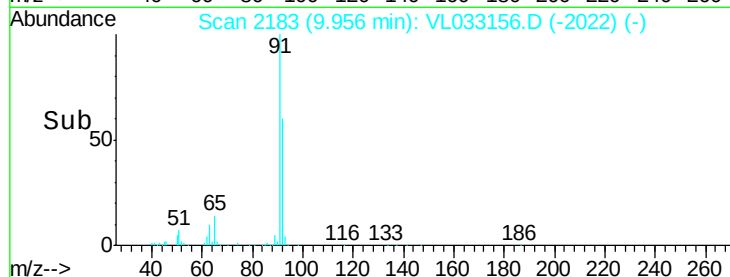
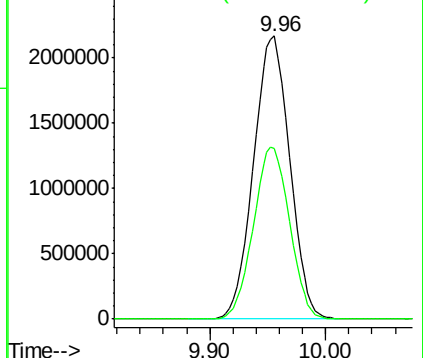
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 11.524 ppbv

RT: 10.77 min Scan# 2435

Delta R.T. 0.01 min

Lab File: VL033156.D

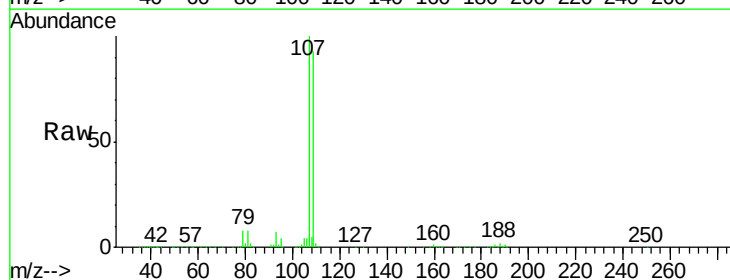
Acq: 4 Feb 2019 13:51

Tgt Ion: 107 Resp: 2562899

Ion Ratio Lower Upper

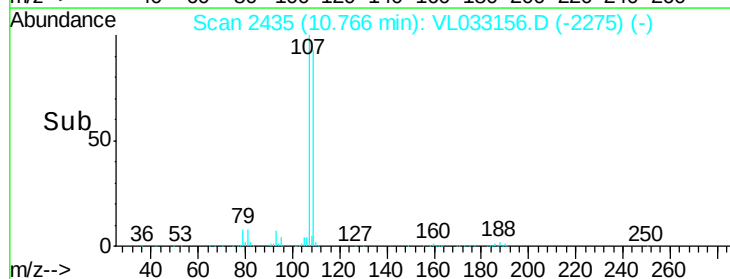
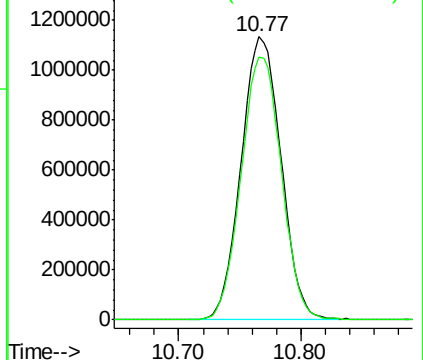
107 100

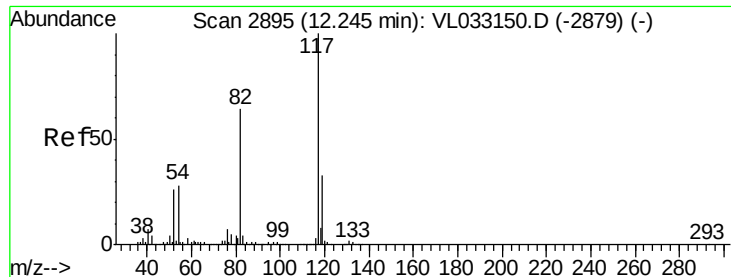
109 92.8 74.7 112.1



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





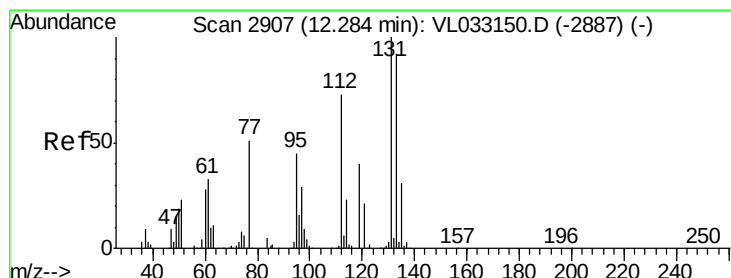
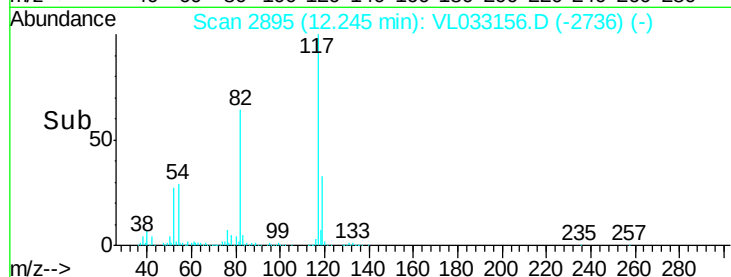
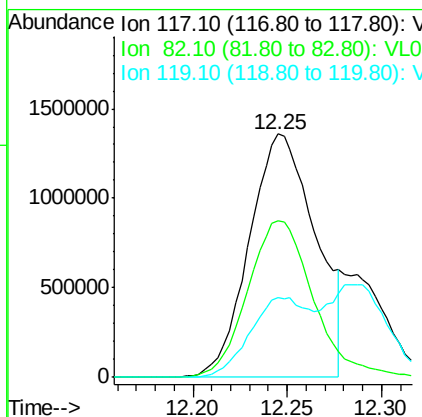
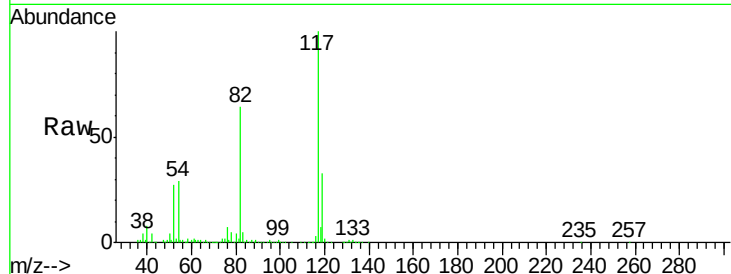
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.25 min Scan# 2895
Delta R.T. 0.01 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 3340586
Ion Ratio Lower Upper
117 100
82 63.6 49.3 73.9
119 31.4 27.1 40.7

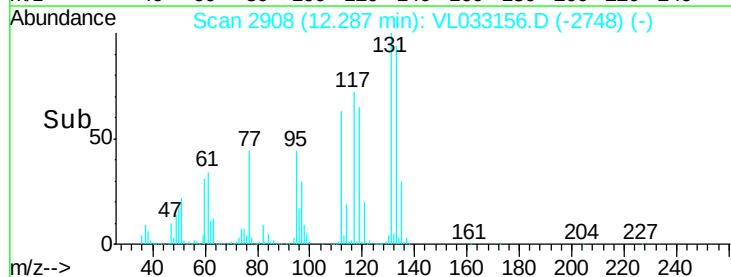
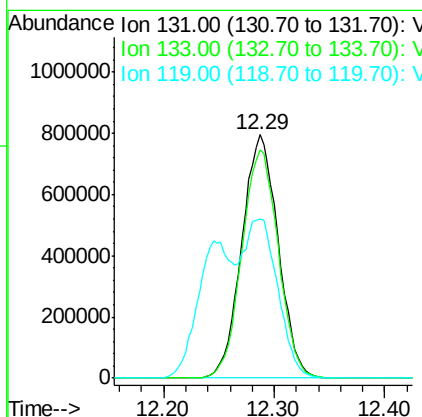
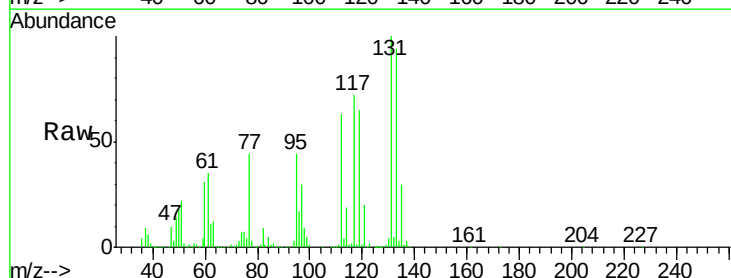
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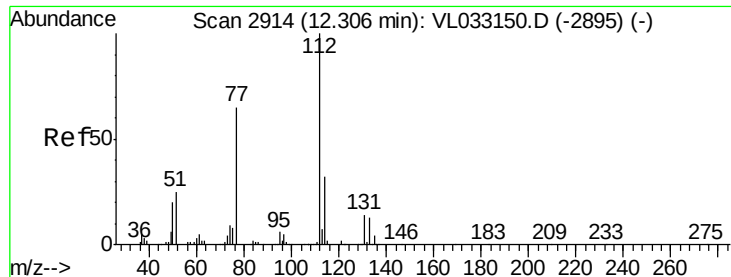
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#56
1,1,1,2-Tetrachloroethane
Concen: 12.211 ppbv
RT: 12.29 min Scan# 2908
Delta R.T. 0.01 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

Tgt Ion:131 Resp: 1814485
Ion Ratio Lower Upper
131 100
133 94.3 76.2 114.4
119 64.7 46.9 70.3





#57

Chlorobenzene

Concen: 11.303 ppbv

RT: 12.31 min Scan# 2915

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:112 Resp: 3322980

Ion Ratio Lower Upper

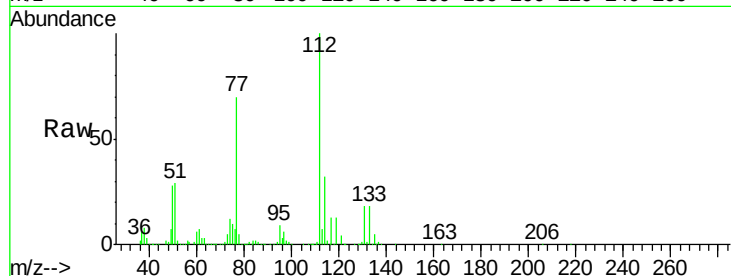
112 100

77 69.9 52.8 79.2

114 32.3 29.7 36.3

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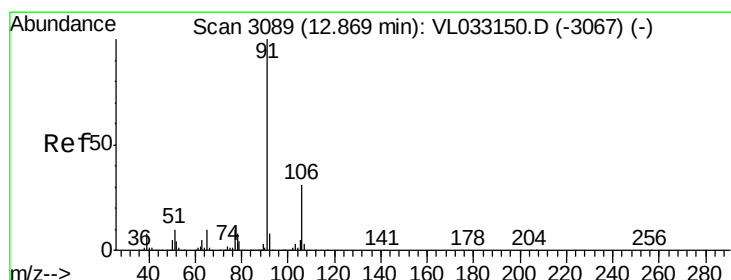
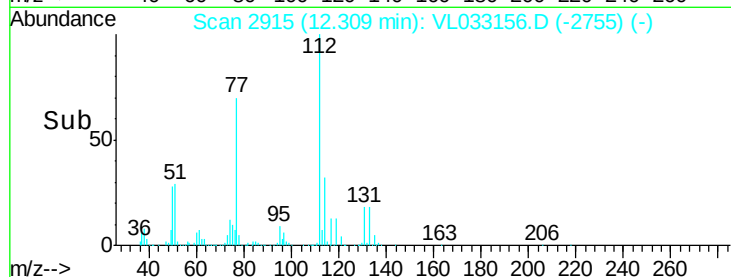
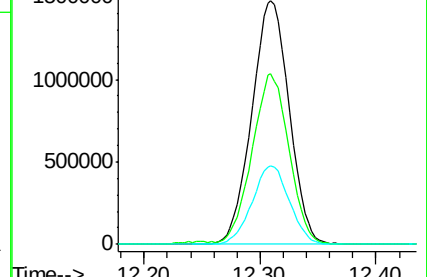
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 11.505 ppbv

RT: 12.87 min Scan# 3089

Delta R.T. 0.01 min

Lab File: VL033156.D

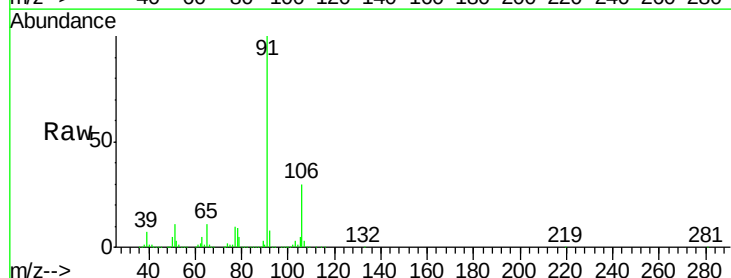
Acq: 4 Feb 2019 13:51

Tgt Ion: 91 Resp: 6303451

Ion Ratio Lower Upper

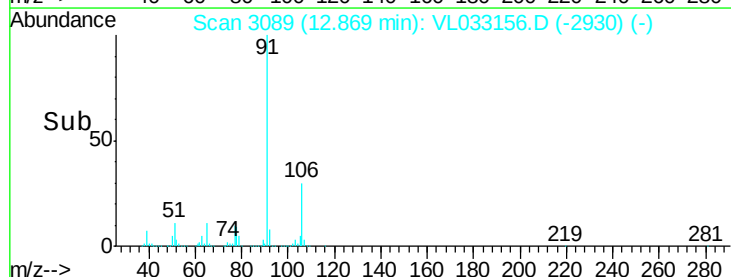
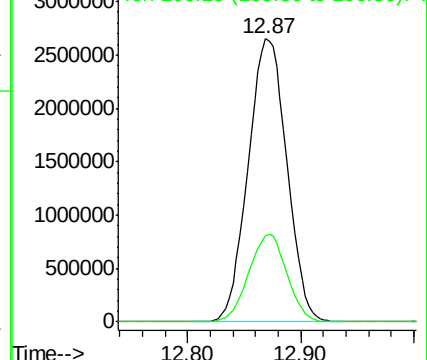
91 100

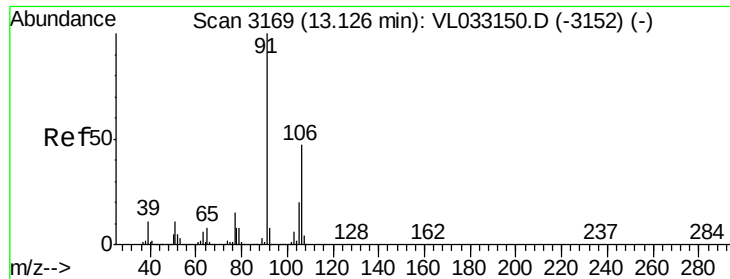
106 30.4 24.7 37.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





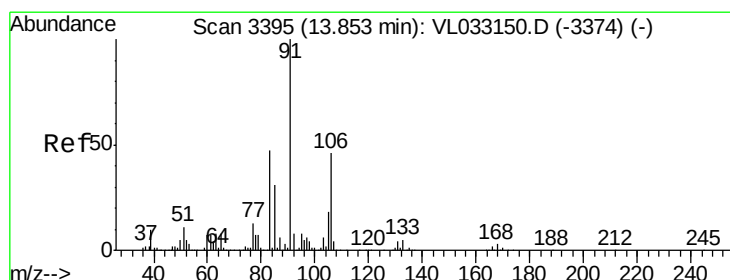
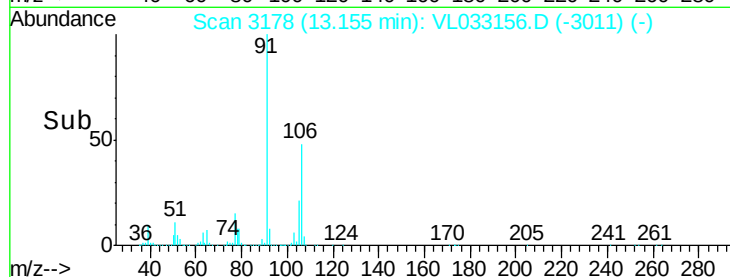
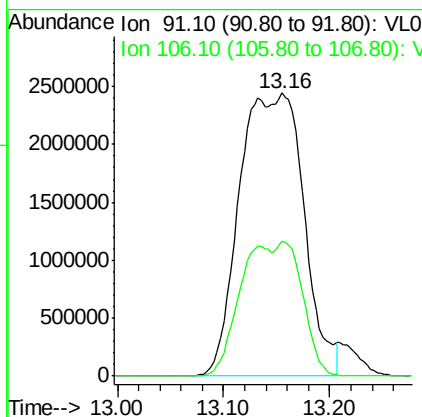
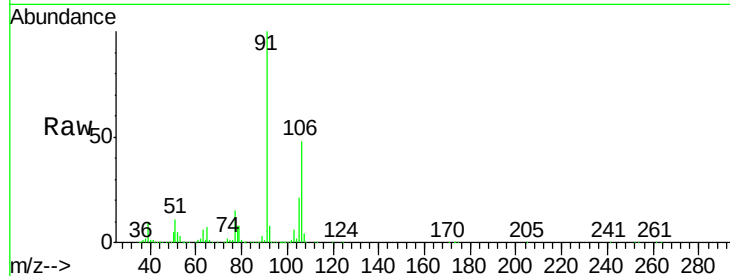
#59
m/p-Xylene
Concen: 22.917 ppbv m
RT: 13.16 min Scan# 3178
Delta R.T. 0.04 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp:10241669
Ion Ratio Lower Upper
91 100
106 0.0 37.6 56.4#

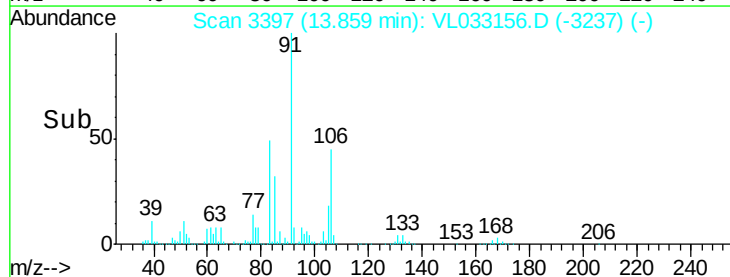
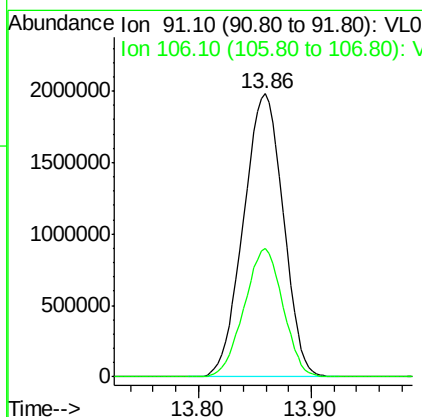
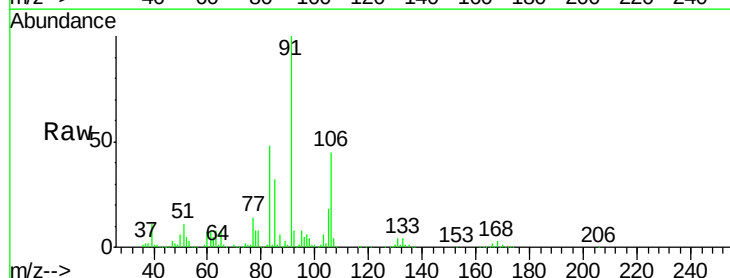
Manual Integrations
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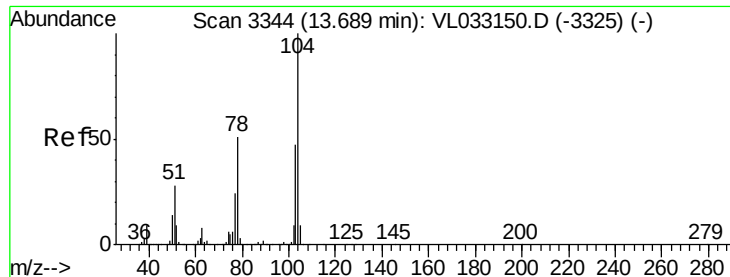
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#60
o-Xylene
Concen: 11.222 ppbv
RT: 13.86 min Scan# 3397
Delta R.T. 0.01 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

Tgt Ion: 91 Resp: 4850668
Ion Ratio Lower Upper
91 100
106 44.2 23.2 69.5





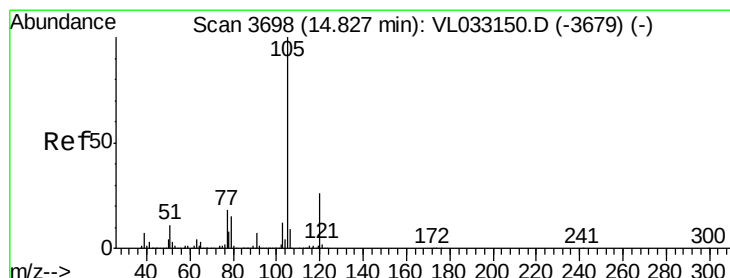
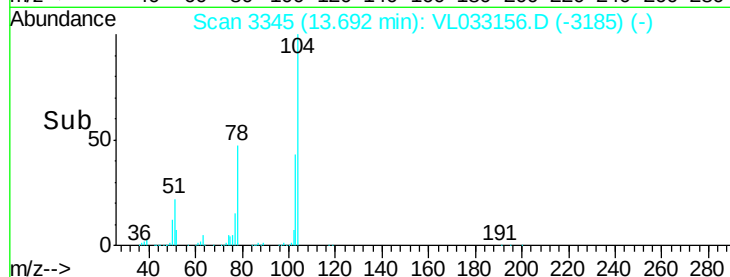
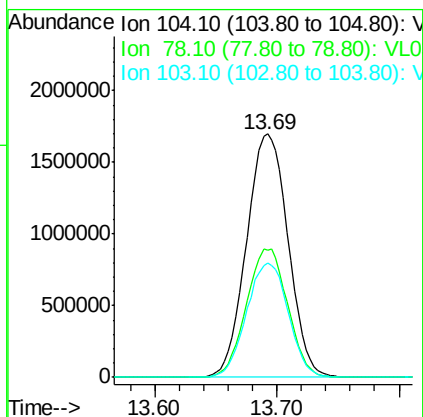
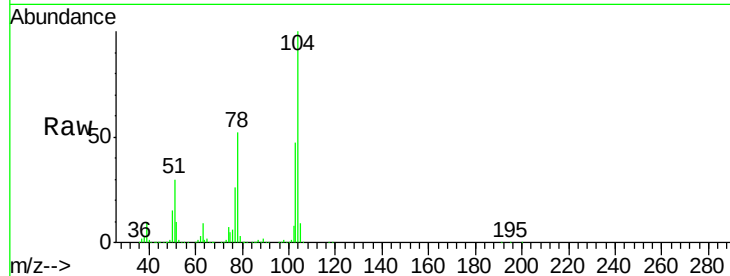
#61
Stvrene
Concen: 12.055 ppbv
RT: 13.69 min Scan# 3345
Delta R.T. 0.01 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:104 Resp: 3997094
Ion Ratio Lower Upper
104 100
78 52.6 39.7 59.5
103 47.2 37.7 56.5

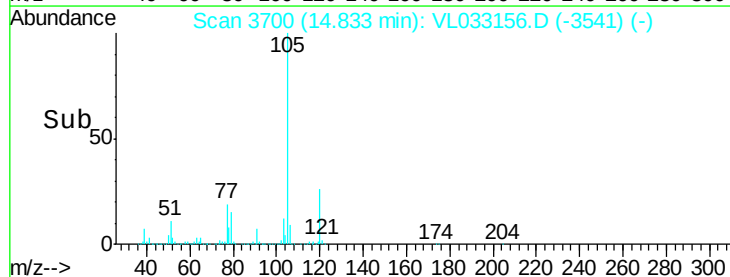
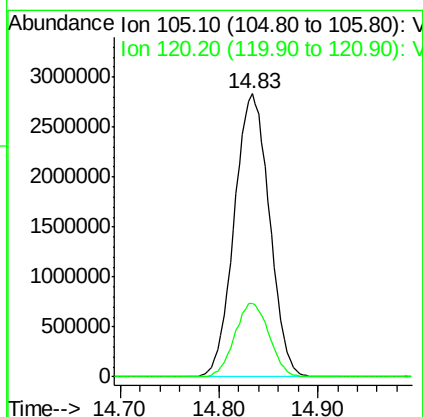
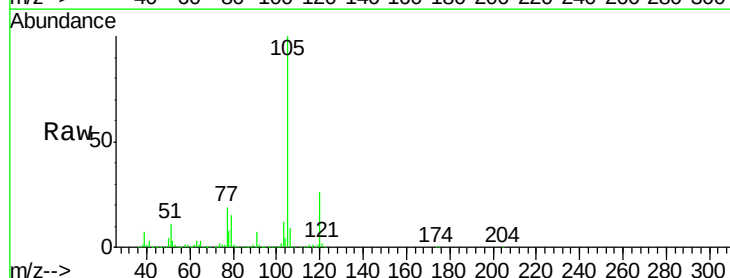
Manual Integrations
APPROVED

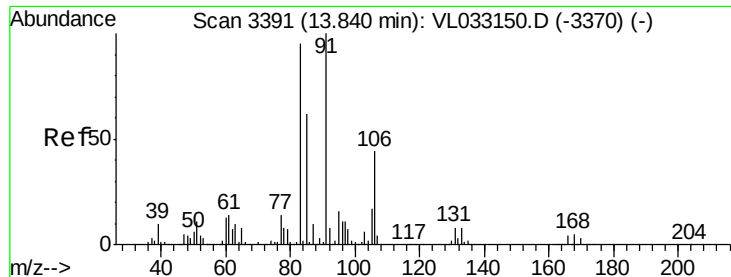
MMDadoda
2/5/2019 10:27:36 AM



#62
Isopropylbenzene
Concen: 11.377 ppbv
RT: 14.83 min Scan# 3700
Delta R.T. 0.01 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

Tgt Ion:105 Resp: 6991622
Ion Ratio Lower Upper
105 100
120 25.6 20.8 31.2





#63

1,1,2,2-Tetrachloroethane

Concen: 10.401 ppbv

RT: 13.85 min Scan# 3393

Delta R.T. 0.02 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 83 Resp: 3391987

Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.5	13.7
85	65.3	32.5	97.4

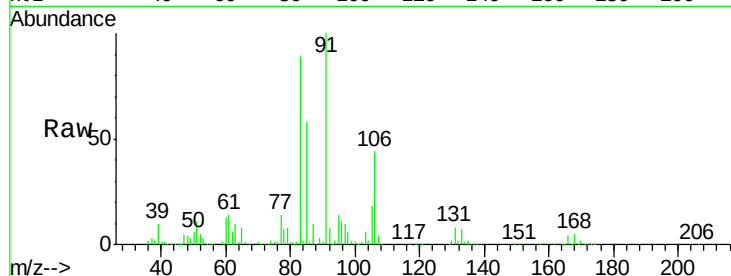
83 100

131 9.1 4.5 13.7

85 65.3 32.5 97.4

Manual Integrations
APPROVED

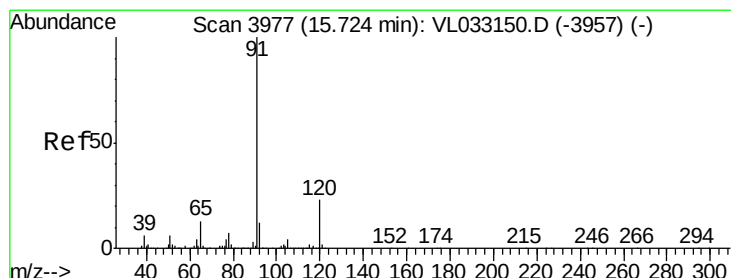
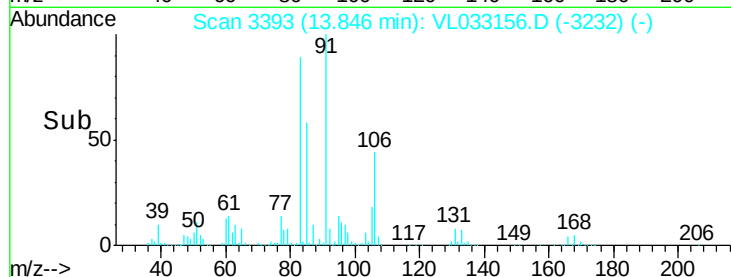
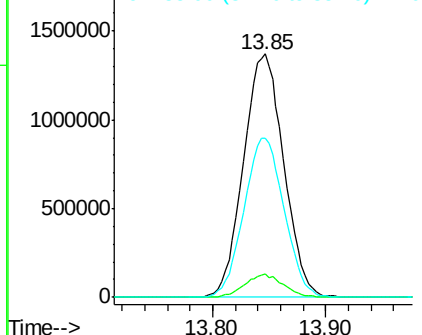
MMDadoda
2/5/2019 10:27:36 AM



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: 11.800 ppbv

RT: 15.73 min Scan# 3979

Delta R.T. 0.01 min

Lab File: VL033156.D

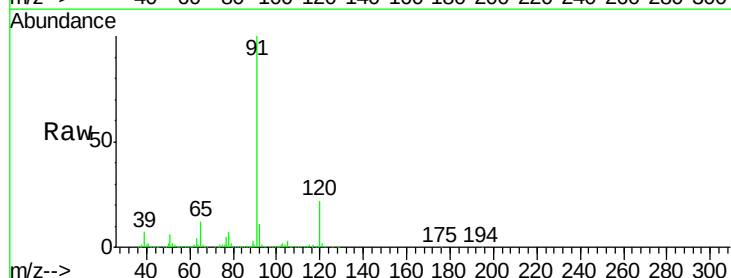
Acq: 4 Feb 2019 13:51

Tgt Ion: 120 Resp: 1858068

Ion	Ratio	Lower	Upper
120	100		
91	470.0	370.2	555.2

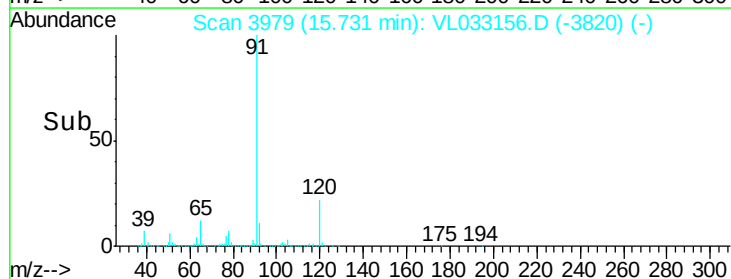
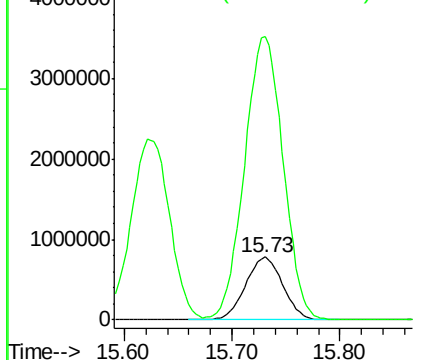
120 100

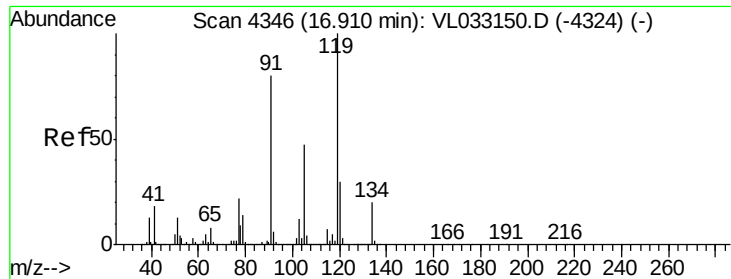
91 470.0 370.2 555.2



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





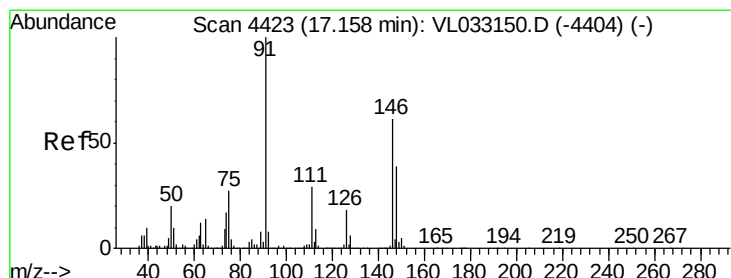
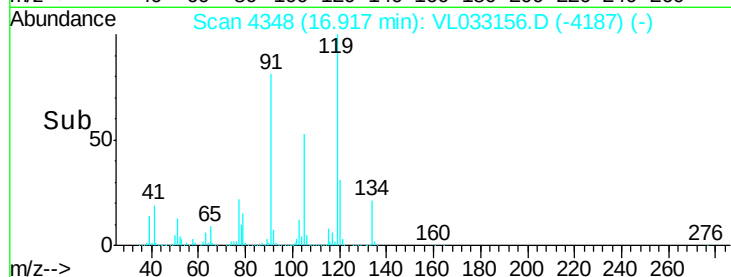
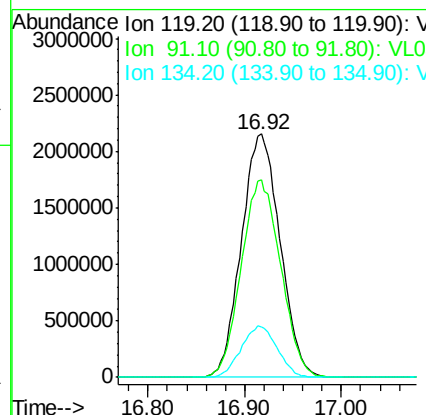
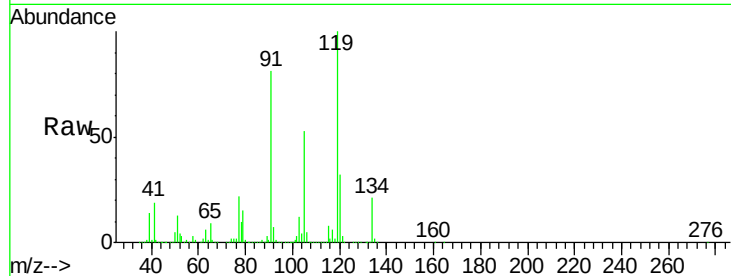
#65
tert-Butylbenzene
Concen: 11.589 ppbv
RT: 16.92 min Scan# 4348
Delta R.T. 0.02 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
91	82.5	63.0	94.6
134	19.8	15.5	23.3

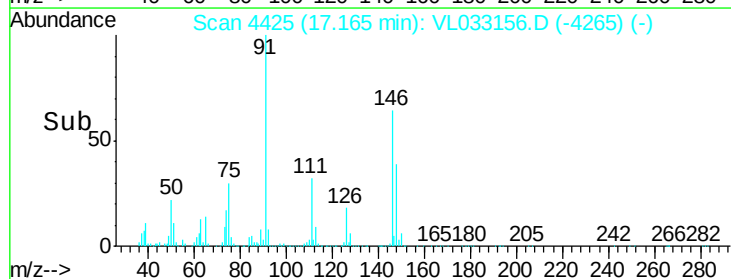
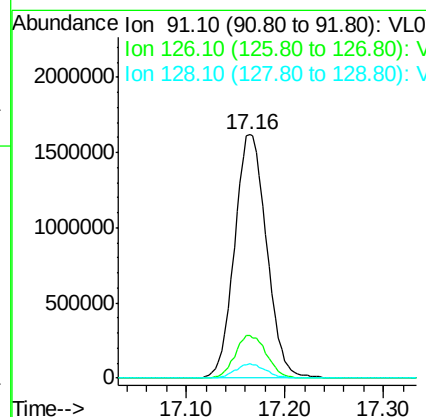
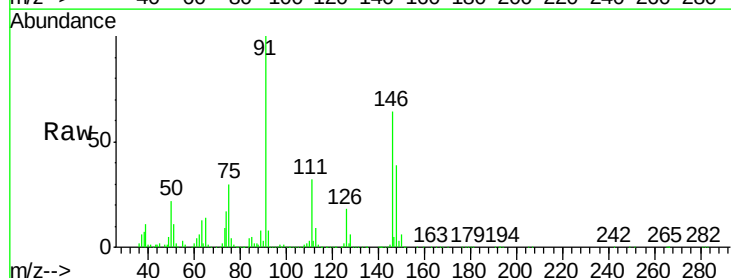
Manual Integrations
APPROVED

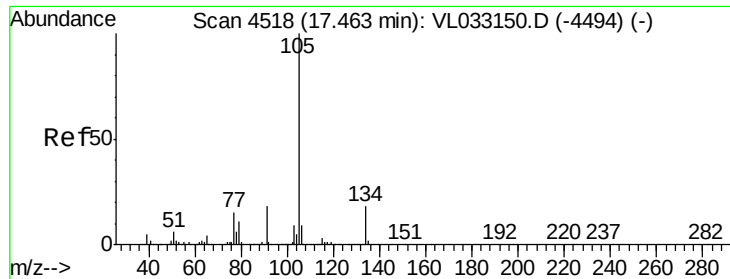
MMDadoda
2/5/2019 10:27:36 AM



#66
Benzyl Chloride
Concen: 15.775 ppbv
RT: 17.16 min Scan# 4425
Delta R.T. 0.01 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

Tgt Ion	Ratio	Lower	Upper
91	100		
126	17.3	14.9	22.3
128	5.5	4.7	7.1





#67

sec-Butylbenzene

Concen: 11.835 ppbv

RT: 17.47 min Scan# 4519

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 105 Resp: 8693151

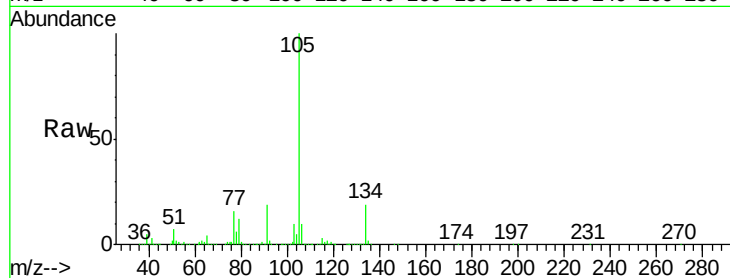
Ion Ratio Lower Upper

105 100

134 18.3 14.4 21.6

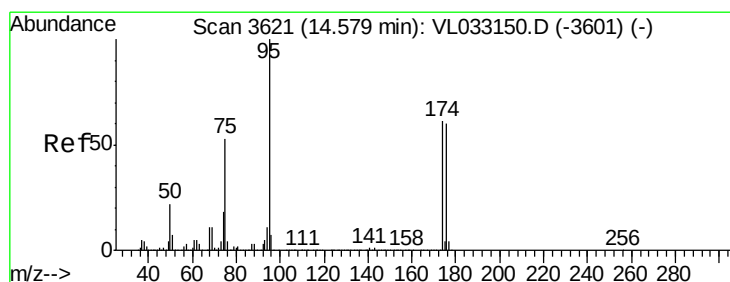
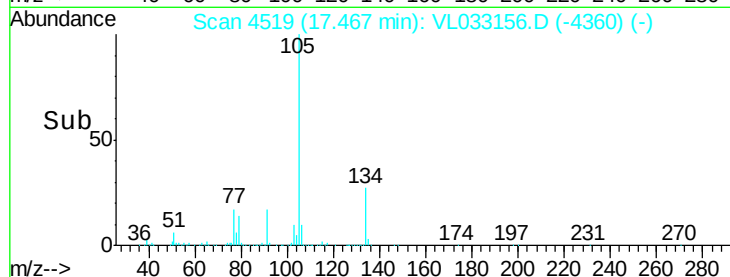
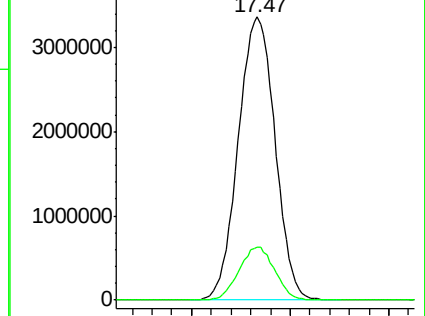
Manual Integrations
APPROVED

MMDadoda
2/5/2019 10:27:36 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.838 ppbv

RT: 14.59 min Scan# 3623

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

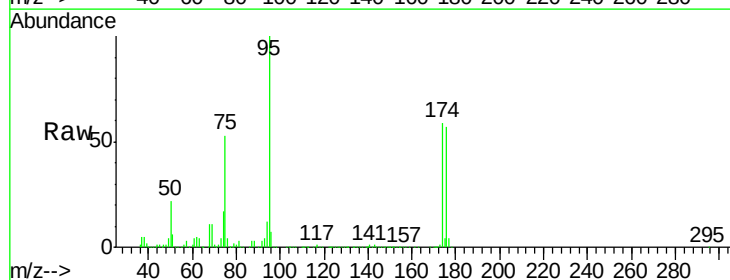
Tgt Ion: 95 Resp: 2481375

Ion Ratio Lower Upper

95 100

174 59.5 49.2 73.8

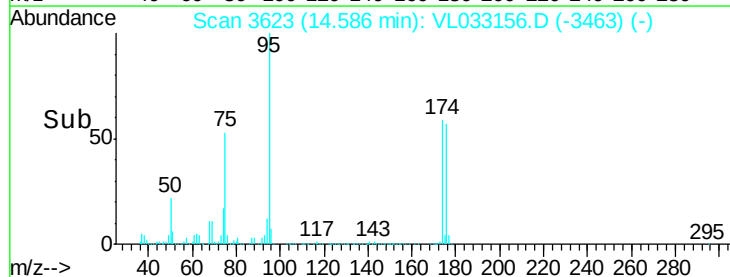
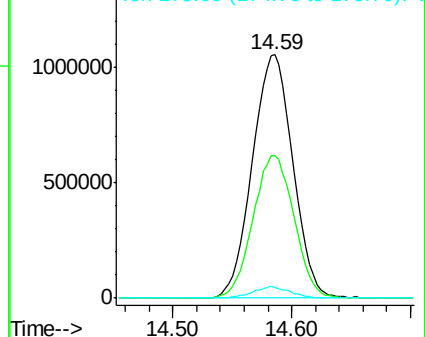
175 4.4 3.7 5.5

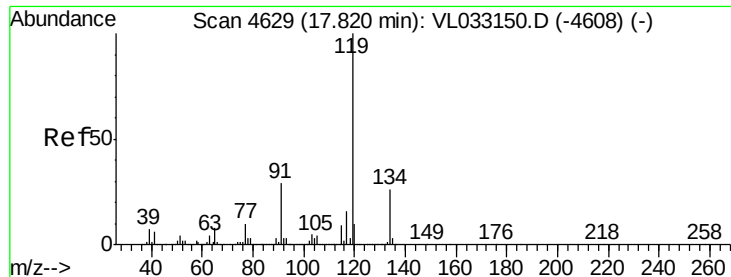


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





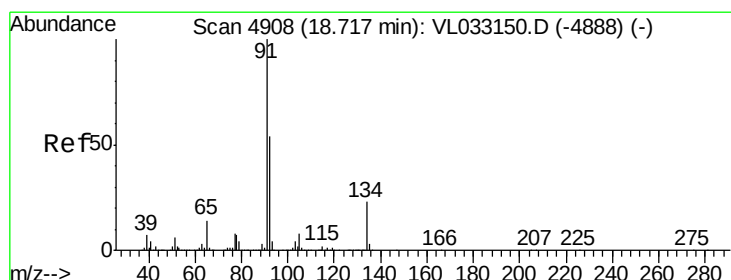
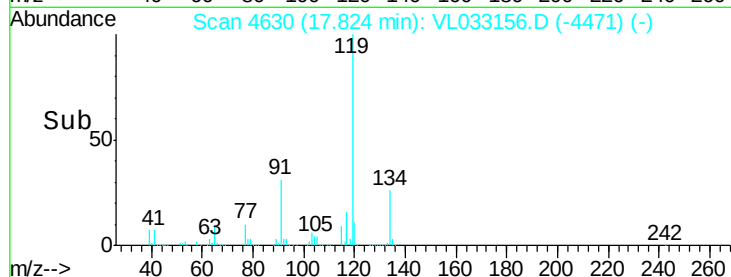
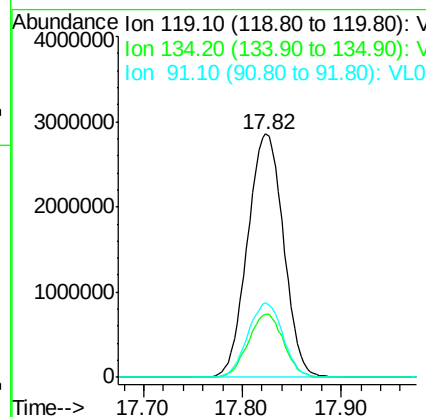
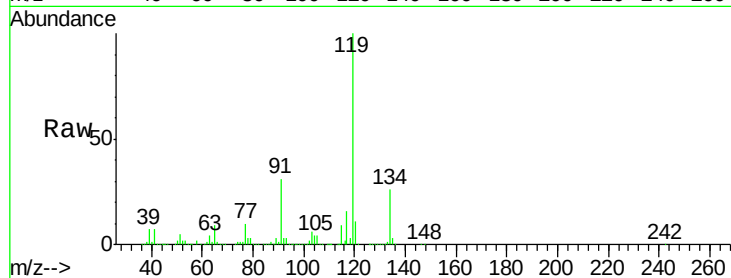
#69
 p-Isopropyltoluene
 Concen: 12.450 ppbv
 RT: 17.82 min Scan# 4630
 Delta R.T. 0.01 min
 Lab File: VL033156.D
 Acq: 4 Feb 2019 13:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.3	30.5
91	30.0	22.6	33.8

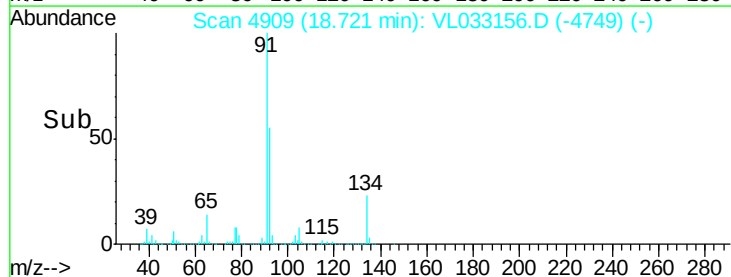
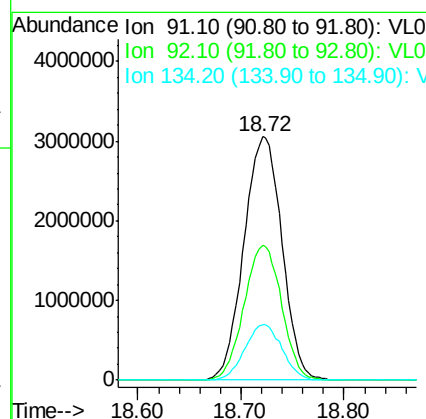
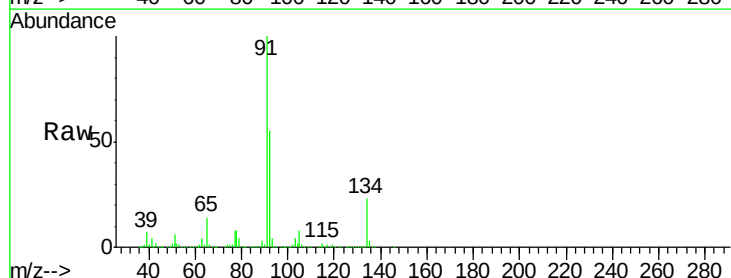
Manual Integrations
 APPROVED

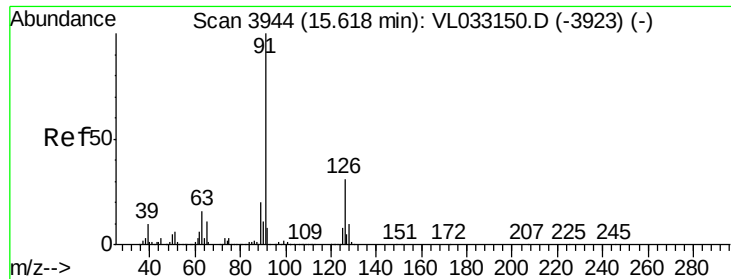
MMDadoda
 2/5/2019 10:27:36 AM



#70
 n-Butylbenzene
 Concen: 13.295 ppbv
 RT: 18.72 min Scan# 4909
 Delta R.T. 0.01 min
 Lab File: VL033156.D
 Acq: 4 Feb 2019 13:51

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.5	43.7	65.5
134	22.2	18.4	27.6





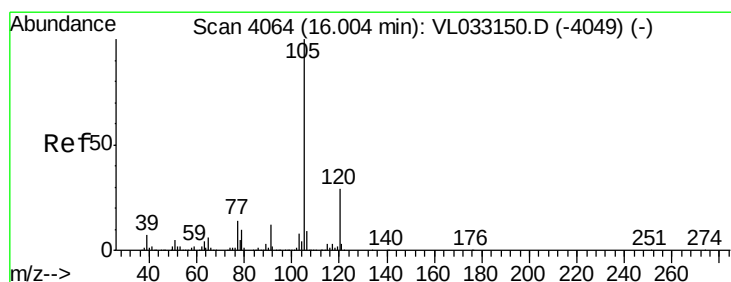
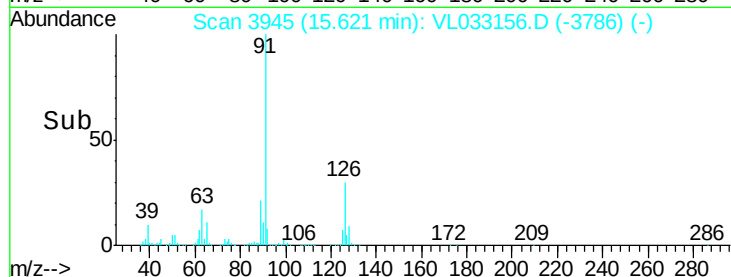
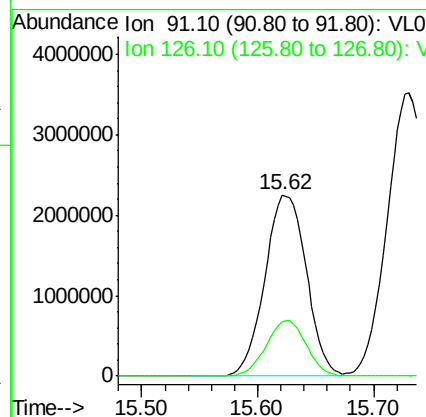
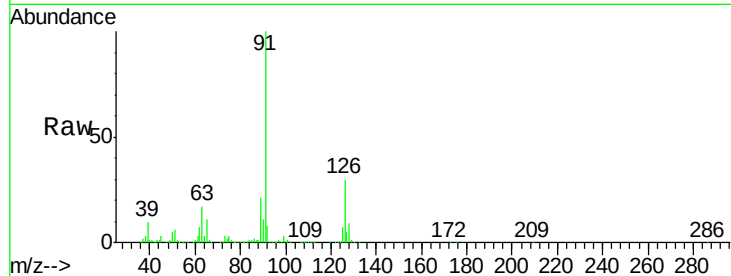
#71
 2-Chlorotoluene
 Concen: 11.958 ppbv
 RT: 15.62 min Scan# 3945
 Delta R.T. 0.01 min
 Lab File: VL033156.D
 Acq: 4 Feb 2019 13:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 91 Resp: 5592831
 Ion Ratio Lower Upper
 91 100
 126 29.7 12.3 49.1

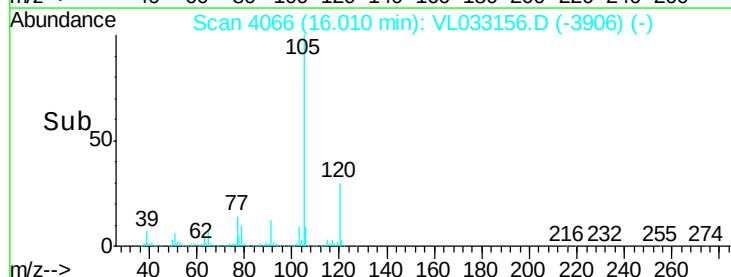
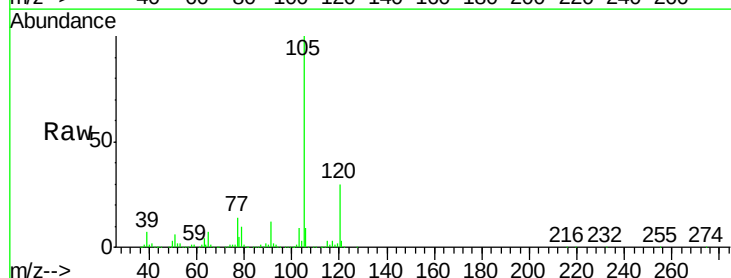
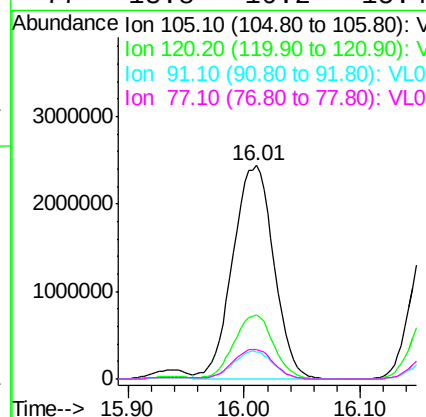
Manual Integrations
 APPROVED

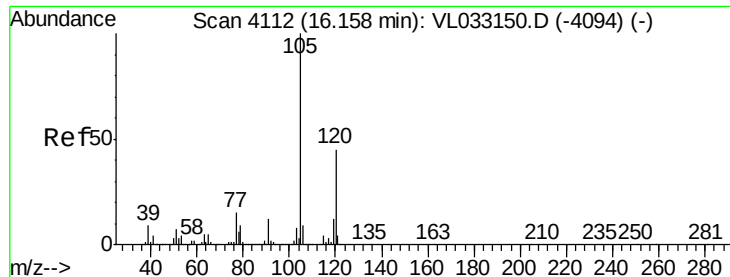
MMDadoda
 2/5/2019 10:27:36 AM



#72
 4-Ethyltoluene
 Concen: 12.330 ppbv
 RT: 16.01 min Scan# 4066
 Delta R.T. 0.01 min
 Lab File: VL033156.D
 Acq: 4 Feb 2019 13:51

Tgt Ion: 105 Resp: 5973621
 Ion Ratio Lower Upper
 105 100
 120 29.2 23.2 34.8
 91 12.7 9.5 14.3
 77 13.8 10.2 15.4





#73

1,3,5-Trimethylbenzene

Concen: 12.934 ppbv

RT: 16.17 min Scan# 4115

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 5649882

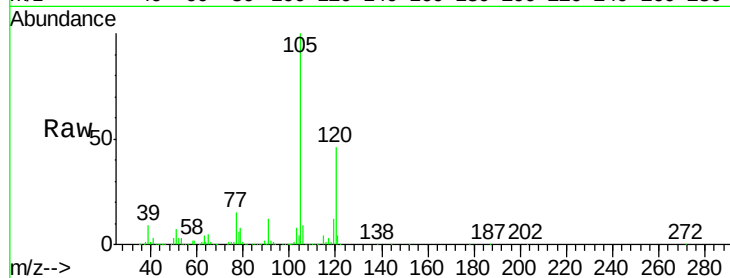
Ion Ratio Lower Upper

105 100

120 46.2 38.0 57.0

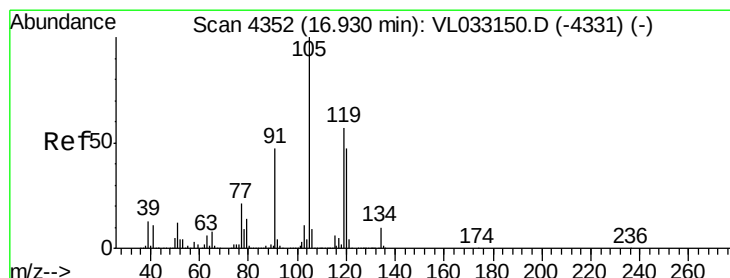
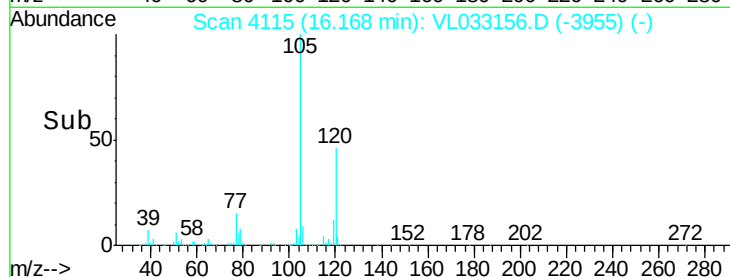
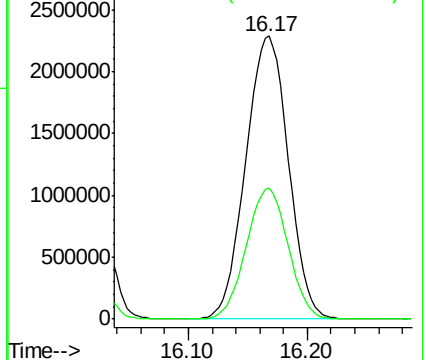
Manual Integrations
APPROVED

MMDadoda
2/5/2019 10:27:36 AM



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: 12.794 ppbv

RT: 16.94 min Scan# 4354

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Tgt Ion:105 Resp: 5504221

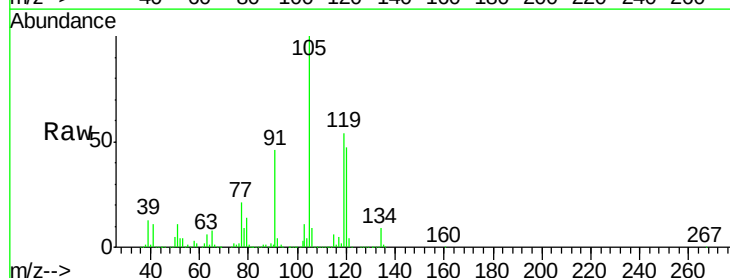
Ion Ratio Lower Upper

105 100

120 46.5 38.2 57.4

91 45.7 35.0 52.4

77 21.4 15.8 23.6

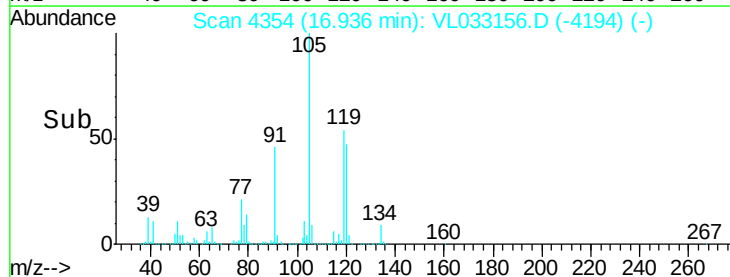
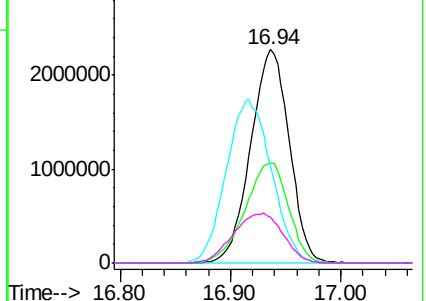


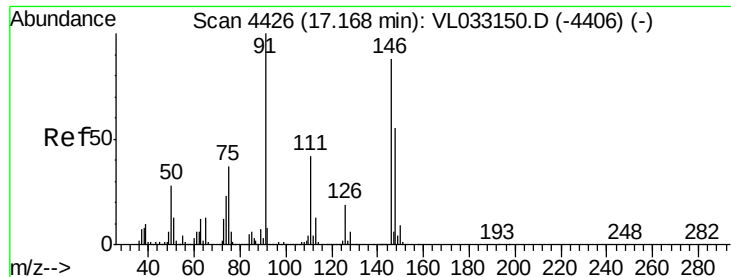
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): V

Ion 77.10 (76.80 to 77.80): V





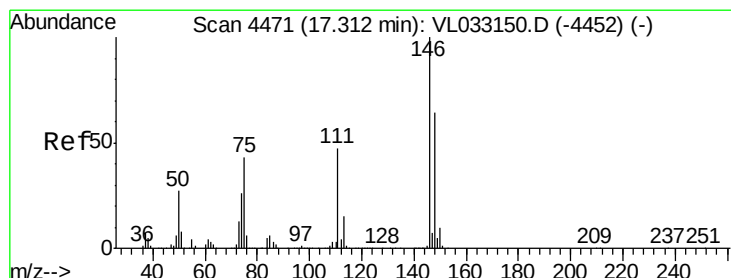
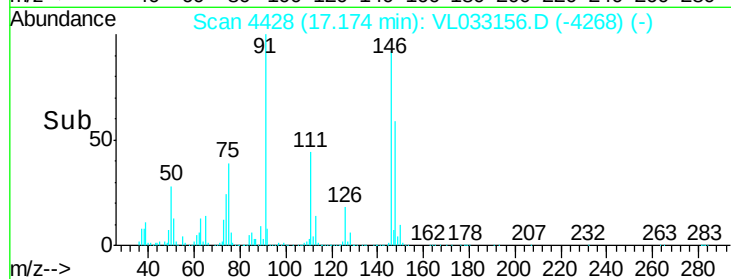
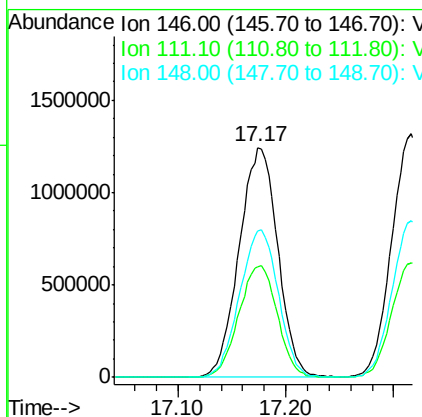
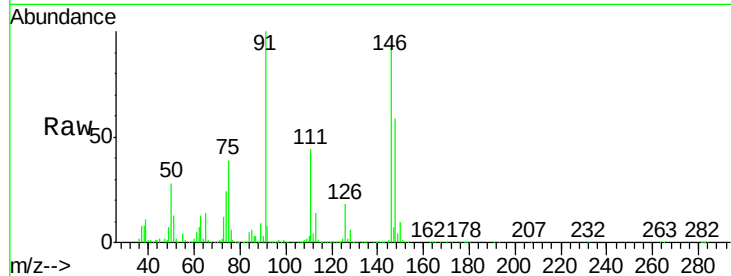
#75
 1,3-Dichlorobenzene
 Concen: 12.118 ppbv
 RT: 17.17 min Scan# 4428
 Delta R.T. 0.01 min
 Lab File: VL033156.D
 Acq: 4 Feb 2019 13:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.5	24.0	72.0
148	64.2	31.9	95.7

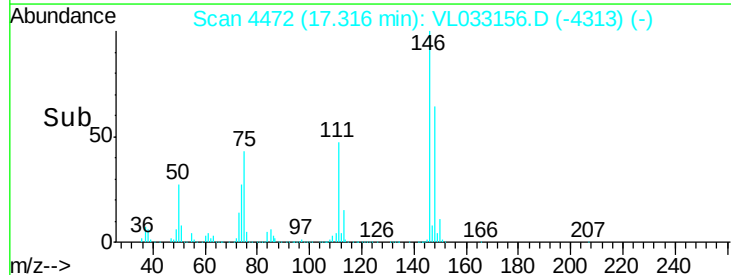
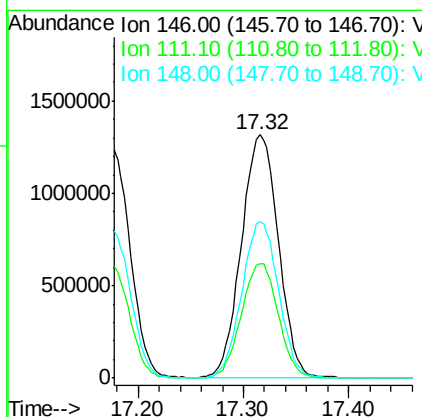
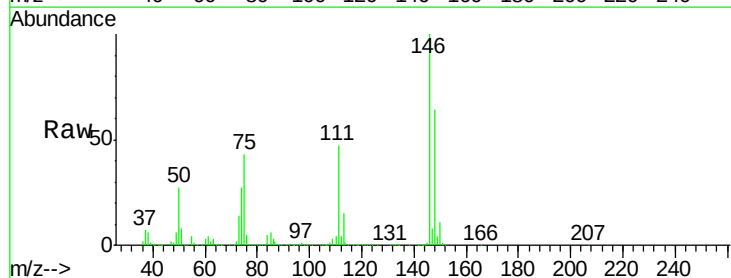
Manual Integrations
 APPROVED

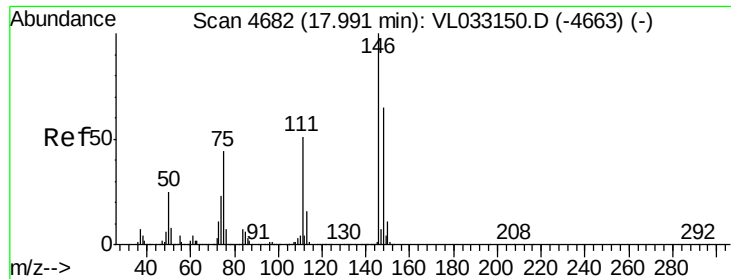
MMDadoda
 2/5/2019 10:27:36 AM



#76
 1,4-Dichlorobenzene
 Concen: 12.534 ppbv
 RT: 17.32 min Scan# 4472
 Delta R.T. 0.01 min
 Lab File: VL033156.D
 Acq: 4 Feb 2019 13:51

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.2	23.4	70.0
148	64.3	31.9	95.9





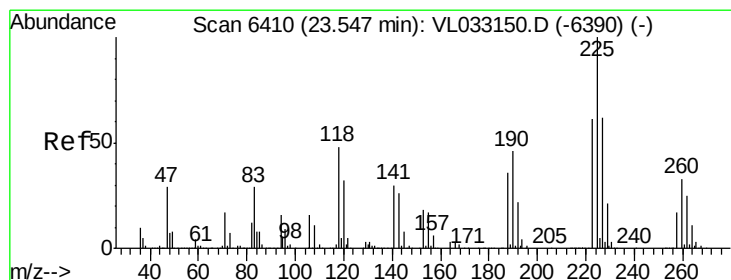
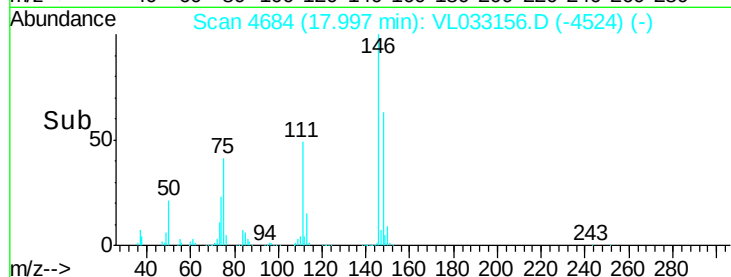
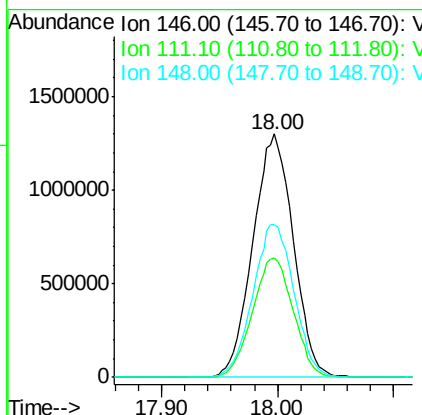
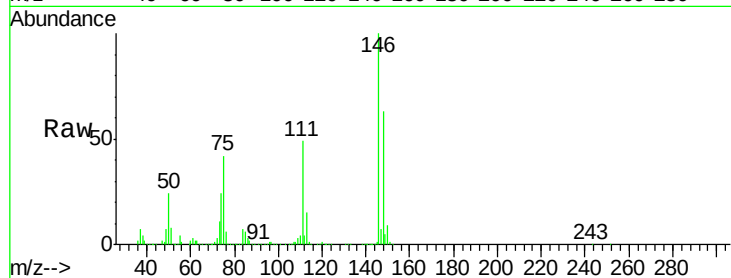
#77
 1,2-Dichlorobenzene
 Concen: 12.735 ppbv
 RT: 18.00 min Scan# 4684
 Delta R.T. 0.01 min
 Lab File: VL033156.D
 Acq: 4 Feb 2019 13:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:146 Resp: 3148517
 Ion Ratio Lower Upper
 146 100
 111 49.5 25.1 75.3
 148 64.0 32.0 96.2

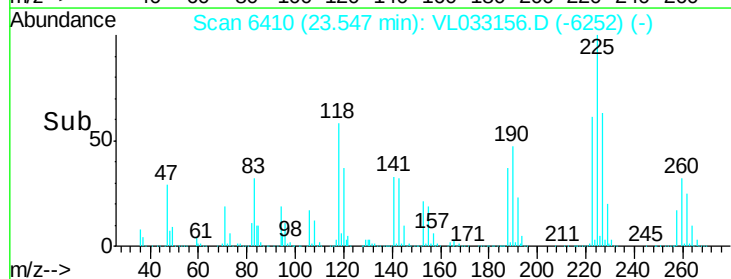
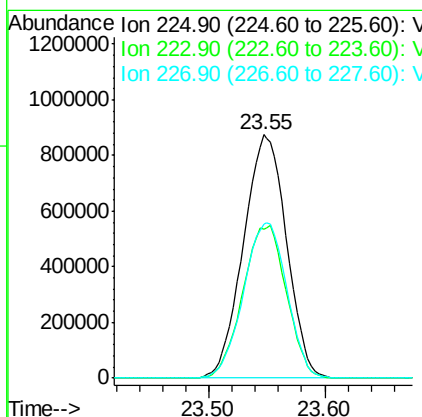
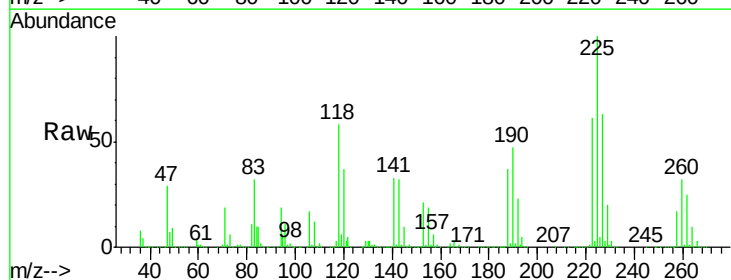
Manual Integrations
 APPROVED

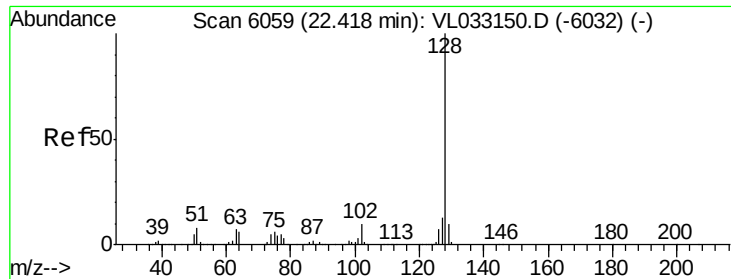
MMDadoda
 2/5/2019 10:27:36 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 19.667 ppbv
 RT: 23.55 min Scan# 6410
 Delta R.T. 0.01 min
 Lab File: VL033156.D
 Acq: 4 Feb 2019 13:51

Tgt Ion:225 Resp: 2252807
 Ion Ratio Lower Upper
 225 100
 223 63.6 50.2 75.4
 227 64.5 51.1 76.7





#79

Naphthalene

Concen: 22.613 ppbv

RT: 22.42 min Scan# 6059

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:128 Resp: 6379330

Ion Ratio Lower Upper

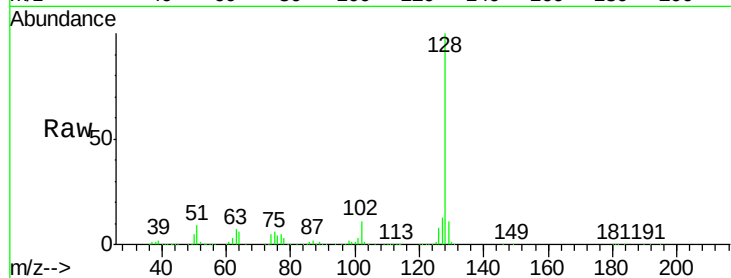
128 100

127 13.4 10.6 16.0

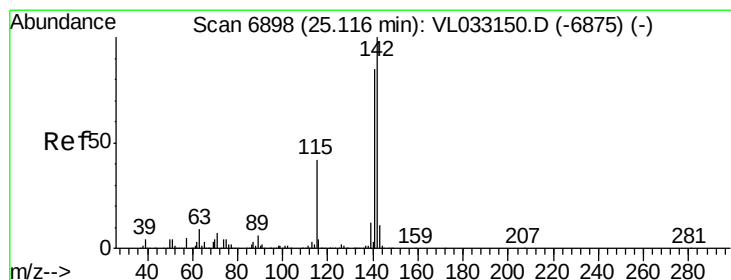
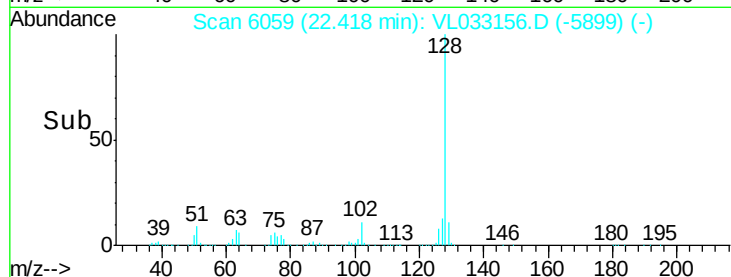
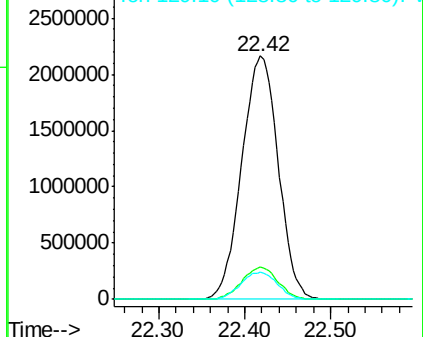
129 11.3 9.0 13.4

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



#80

Naphthalene, 2-methyl-

Concen: 36.322 ppbv

RT: 25.12 min Scan# 6898

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

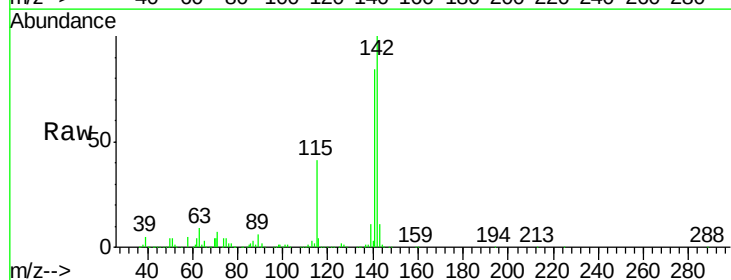
Tgt Ion:142 Resp: 3022516

Ion Ratio Lower Upper

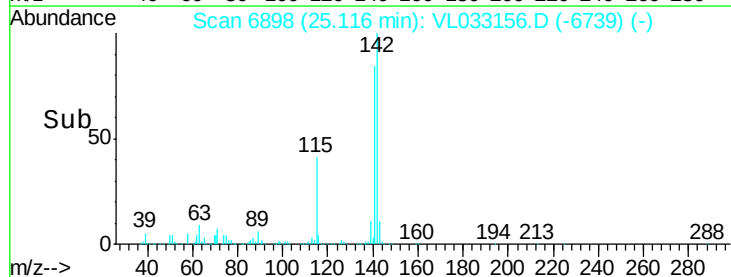
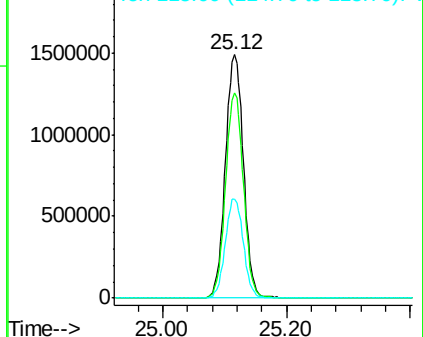
142 100

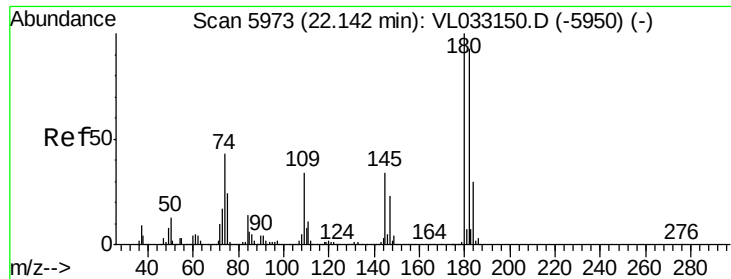
141 83.6 66.5 99.7

115 40.7 31.3 46.9



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





#81
 1,2,4-Trichlorobenzene
 Concen: 19.676 ppbv
 RT: 22.14 min Scan# 5973
 Delta R.T. 0.01 min
 Lab File: VL033156.D
 Acq: 4 Feb 2019 13:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.2	114.4
184	30.9	24.6	36.8

Manual Integrations
 APPROVED

MMDadoda
 2/5/2019 10:27:36 AM

