

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL010419\
 Data File : VL033084.D
 Acq On : 5 Jan 2019 1:40
 Operator : SY/AP
 Sample : VL0104ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0104ABS01

Manual Integrations
 APPROVED

MMDadoda
 1/8/2019 12:01:37 AM

Quant Time: Jan 05 03:21:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 0
 QLast Update : Fri Jan 04 16:09:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1074422	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2650478	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2574094m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2015719	10.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.08	85	2555381	12.780	ppbv 100
3) Chlorodifluoromethane	3.02	51	1375098	11.306	ppbv 99
4) Chloromethane	3.17	50	740101	10.624	ppbv 98
5) Vinyl Chloride	3.29	62	759891	10.801	ppbv 95
6) Bromomethane	3.52	94	494884	10.355	ppbv 99
7) Chloroethane	3.60	64	277110	10.072	ppbv 99
8) Dichlorotetrafluoroethane	3.22	85	1964028	11.403	ppbv 100
9) Propene	3.04	41	527253	11.605	ppbv 100
10) Heptane	8.26	43	1241979	9.601	ppbv 100
11) Trichlorofluoromethane	4.01	101	1903312	8.614	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1275581	9.130	ppbv 99
13) Ethanol	3.65	45	134643	7.431	ppbv 96
14) Bromoethene	3.79	108	582988	9.448	ppbv 99
15) Acetone	3.90	43	1189559	7.999	ppbv 100
16) 1,3-Butadiene	3.36	39	648495	11.564	ppbv 99
17) tert-Butyl alcohol	4.36	59	279480	8.872	ppbv 99
18) 1,1-Dichloroethene	4.35	96	576102	8.952	ppbv 91
19) Isopropyl Alcohol	4.02	45	824224	8.051	ppbv 99
20) Methylene Chloride	4.41	84	500657	8.076	ppbv 98
21) Allyl Chloride	4.48	41	901114	9.778	ppbv 98
22) trans-1,2-Dichloroethene	4.97	96	594214	9.315	ppbv 100
23) Vinyl Acetate	5.16	43	1814250	9.590	ppbv 99
24) 1,1-Dichloroethane	5.09	63	1436970	8.946	ppbv 99
25) Ethyl Acetate	5.77	43	2189889	8.712	ppbv 99
26) Hexane	5.79	57	1022479	8.638	ppbv 99
27) Carbon Disulfide	4.62	76	1467781	10.055	ppbv 99
28) Methyl tert-Butyl Ether	5.12	73	1731063	9.370	ppbv 100
29) Chloroform	5.85	83	1777766	8.813	ppbv 99
30) Cyclohexane	7.26	84	857478	9.716	ppbv 98
31) cis-1,2-Dichloroethene	5.65	61	1070585	9.741	ppbv 99
32) 1,1,1-Trichloroethane	6.63	97	1872573	9.147	ppbv 99
34) 2-Butanone	5.33	43	1389309	9.021	ppbv 99
35) Carbon Tetrachloride	7.14	117	2020447	8.875	ppbv 97
36) Benzene	7.01	78	2025146	9.328	ppbv 99
37) 1,2-Dichloroethane	6.42	62	1381054	9.111	ppbv 99
38) Trichloroethene	7.97	130	866656	9.703	ppbv 94
39) 1,2-Dichloropropane	7.74	63	753933	9.244	ppbv 98
40) 1,4-Dioxane	7.96	88	277875	8.975	ppbv 93
41) Tetrahydrofuran	6.15	42	757632	9.666	ppbv 99
42) Bromodichloromethane	7.92	83	1894344	9.097	ppbv 99
43) Methyl Methacrylate	8.15	69	822153	10.092	ppbv 98

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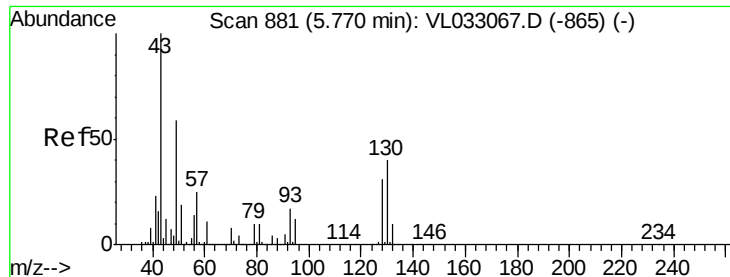
Manual Integrations
 APPROVED

MMDadoda
 1/8/2019 12:01:37 AM

Quant Time: Jan 05 03:21:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 0
 QLast Update : Fri Jan 04 16:09:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	3446129	9.373	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	1111521	10.961	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	1269297	10.966	ppbv	95
47) 1,1,2-Trichloroethane	9.62	97	845772	8.876	ppbv	97
48) Dibromochloromethane	10.46	129	1604869	9.532	ppbv	100
49) Bromoform	13.21	173	1331477	9.052	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	1961304	10.051	ppbv	100
51) 2-Hexanone	10.28	43	1481462	10.492	ppbv #	99
52) Tetrachloroethene	11.38	164	726177	9.462	ppbv	97
53) Toluene	9.96	91	2392039	10.281	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1318218	9.601	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.29	131	1154045	8.677	ppbv	99
57) Chlorobenzene	12.31	112	1853040	8.625	ppbv	99
58) Ethyl Benzene	12.88	91	3273307	10.072	ppbv	98
59) m/p-Xylene	13.16	91	5589289m	18.591	ppbv	
60) o-Xylene	13.86	91	2667015	9.061	ppbv	99
61) Styrene	13.69	104	1954890	10.409	ppbv	99
62) Isopropylbenzene	14.84	105	3734690	8.916	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	1783615	8.158	ppbv	99
64) n-propylbenzene	15.73	120	959526	9.017	ppbv	99
65) tert-Butylbenzene	16.92	119	3342040	9.008	ppbv	98
66) Benzyl Chloride	17.17	91	1974047	9.335	ppbv	100
67) sec-Butylbenzene	17.47	105	4730934	8.910	ppbv	100
69) p-Isopropyltoluene	17.83	119	4003757	9.291	ppbv	99
70) n-Butylbenzene	18.73	91	4211125	9.721	ppbv	100
71) 2-Chlorotoluene	15.63	91	2796795	9.415	ppbv	98
72) 4-Ethyltoluene	16.01	105	3056063	9.448	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	2943716	9.224	ppbv	100
74) 1,2,4-Trimethylbenzene	16.94	105	3080599	8.716	ppbv	97
75) 1,3-Dichlorobenzene	17.18	146	1781461	8.563	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	1741578	9.189	ppbv	100
77) 1,2-Dichlorobenzene	18.00	146	1760064	9.394	ppbv	99
78) Hexachloro-1,3-Butadiene	23.56	225	1098134	7.631	ppbv	99
79) Naphthalene	22.42	128	3671899	12.334	ppbv	98
80) Naphthalene, 2-methyl-	25.12	142	873609	9.669	ppbv	98
81) 1,2,4-Trichlorobenzene	22.15	180	1713533	11.914	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. 0.00 min

Lab File: VL033084.D

Acq: 5 Jan 2019 1:40

Instrument :

MSVOA_L

ClientSampleId :

VL0104ABS01

Tot Ion: 49 Resp: 1074422

Ion Ratio Lower Upper

49 100

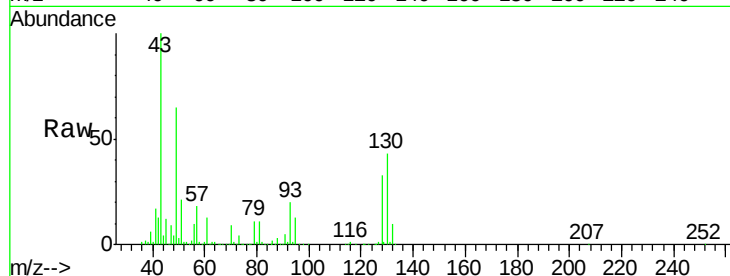
128 51.6 26.2 78.5

130 67.2 33.6 100.6

Manual Integrations
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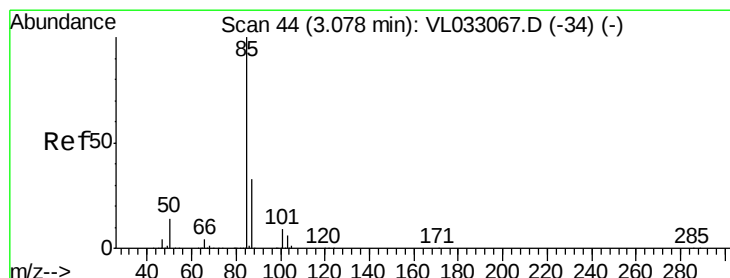
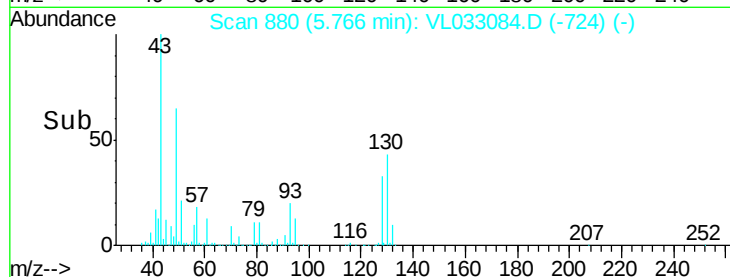
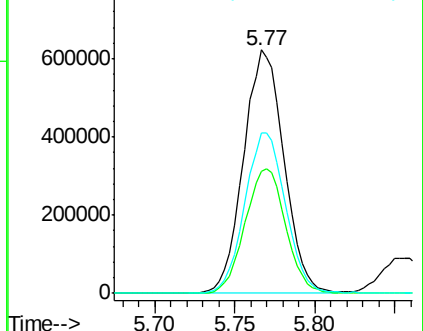
1/8/2019 12:01:37 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 12.780 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033084.D

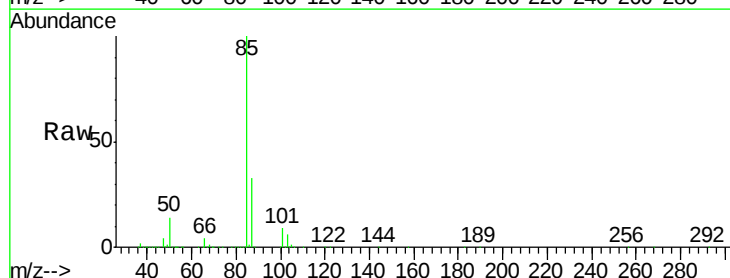
Acq: 5 Jan 2019 1:40

Tgt Ion: 85 Resp: 2555381

Ion Ratio Lower Upper

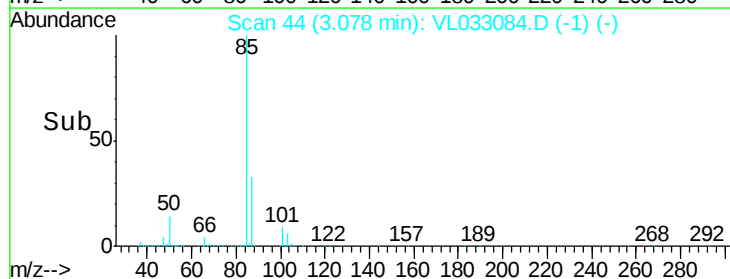
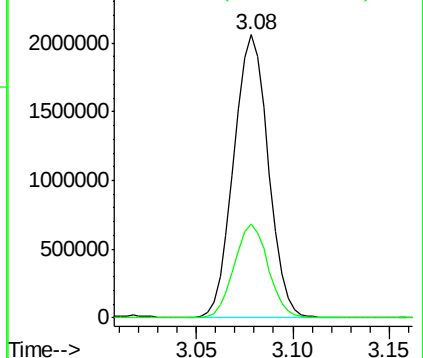
85 100

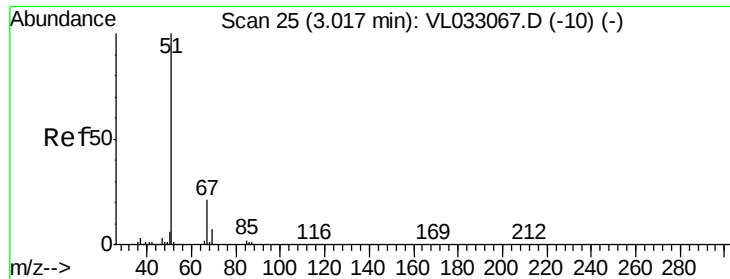
87 33.0 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 11.306 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033084.D

Acq: 5 Jan 2019 1:40

Tot Ion: 51 Resp: 1375098

Ion Ratio Lower Upper

51 100

67 21.1 16.3 24.5

Instrument :

MSVOA_L

ClientSampleId :

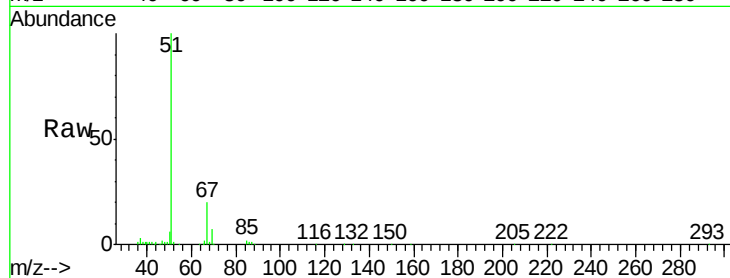
VL0104ABS01

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

1200000

1000000

800000

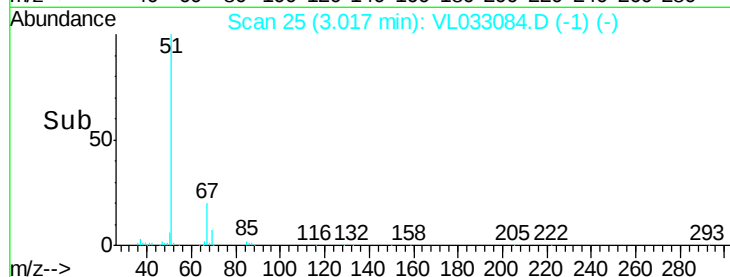
600000

400000

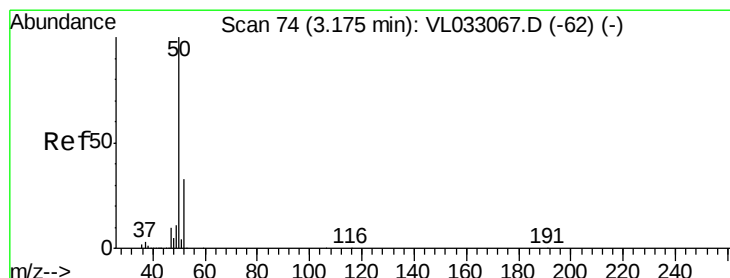
200000

0

Time-->



Time-->



#4

Chloromethane

Concen: 10.624 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033084.D

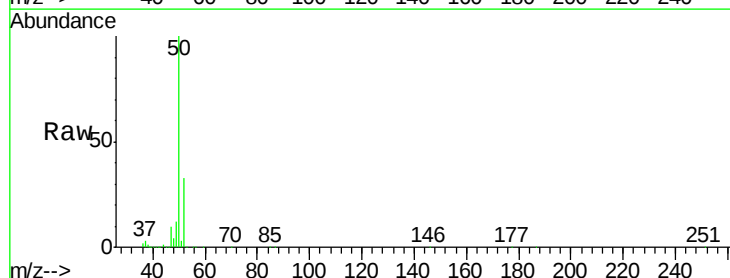
Acq: 5 Jan 2019 1:40

Tgt Ion: 50 Resp: 740101

Ion Ratio Lower Upper

50 100

52 32.7 26.9 40.3



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

600000

500000

400000

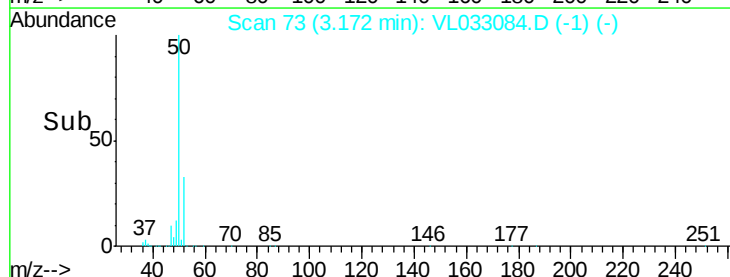
300000

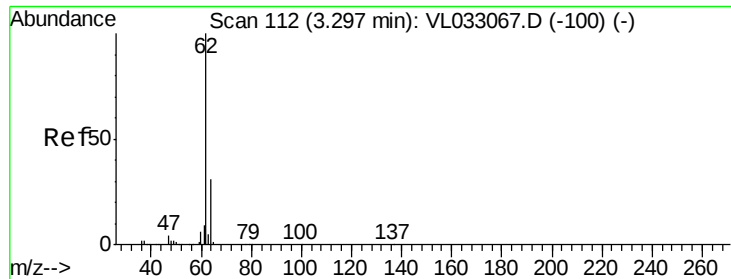
200000

100000

0

Time-->





#5

Vinyl Chloride

Concen: 10.801 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033084.D

Acq: 5 Jan 2019 1:40

Instrument :

MSVOA_L

ClientSampleId :

VL0104ABS01

Tot Ion: 62 Resp: 759891

Ion Ratio Lower Upper

62 100

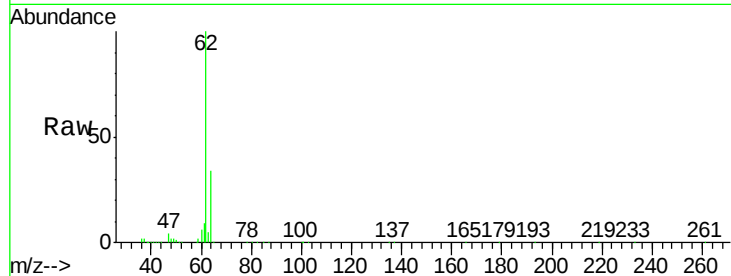
64 34.2 25.3 37.9

Manual Integrations

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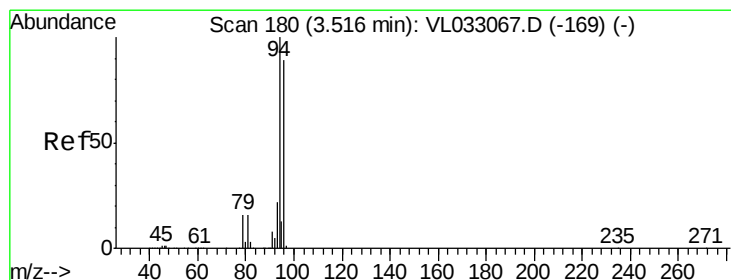
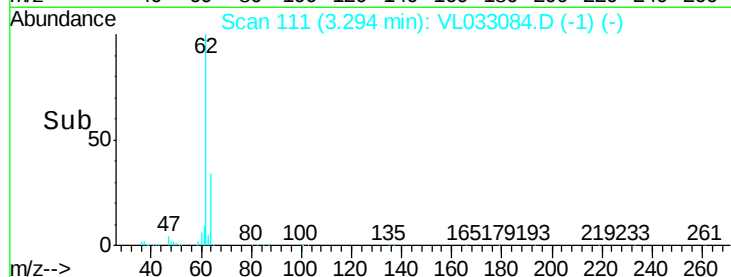
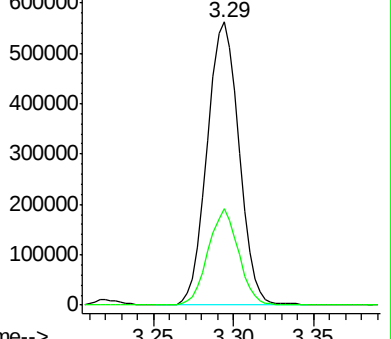
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.355 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033084.D

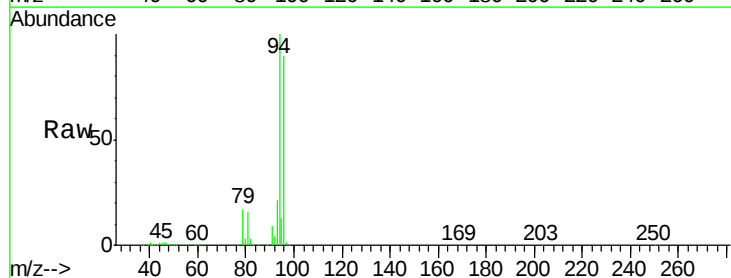
Acq: 5 Jan 2019 1:40

Tgt Ion: 94 Resp: 494884

Ion Ratio Lower Upper

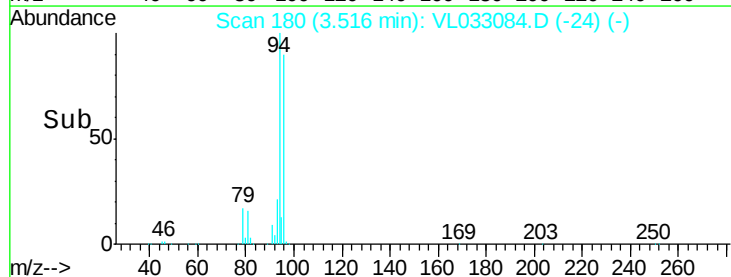
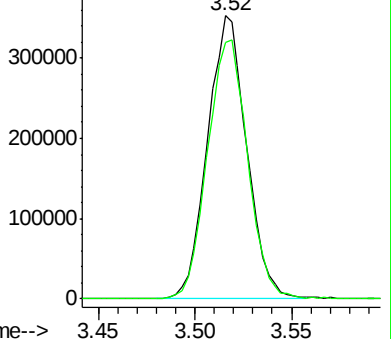
94 100

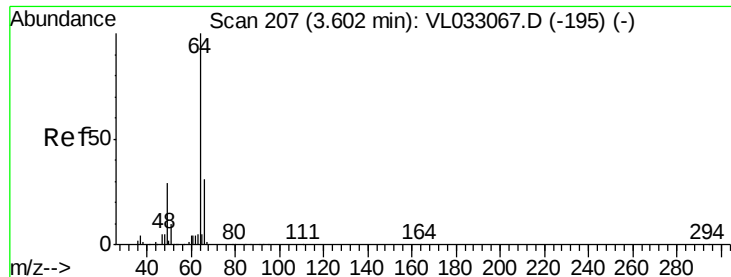
96 90.3 72.8 109.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.072 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033084.D

Acq: 5 Jan 2019 1:40

Instrument :

MSVOA_L

ClientSampleId :

VL0104ABS01

Tot Ion: 64 Resp: 277110

Ion Ratio Lower Upper

64 100

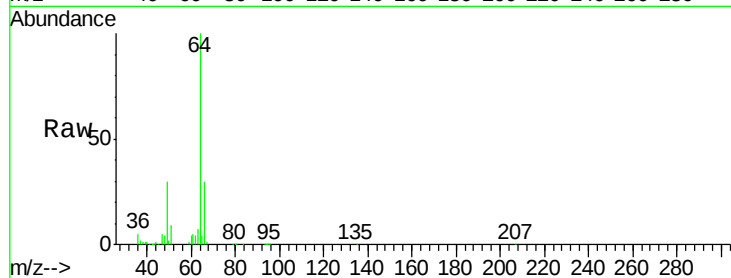
66 30.1 23.7 35.5

Manual Integrations

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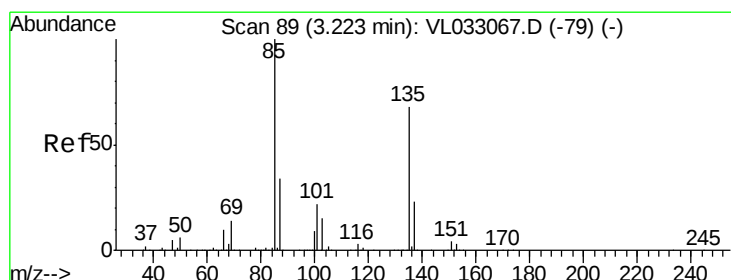
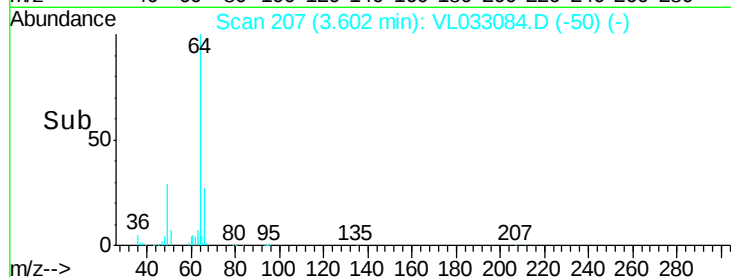
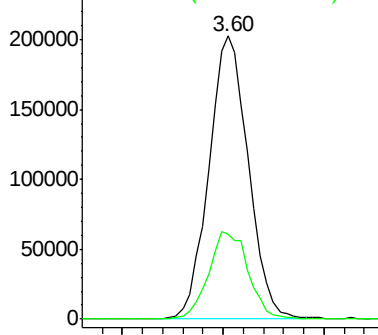
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 11.403 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL033084.D

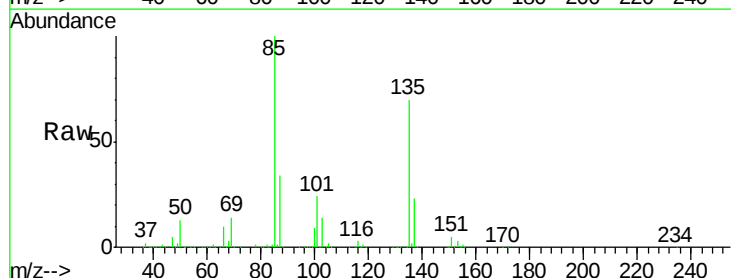
Acq: 5 Jan 2019 1:40

Tgt Ion: 85 Resp: 1964028

Ion Ratio Lower Upper

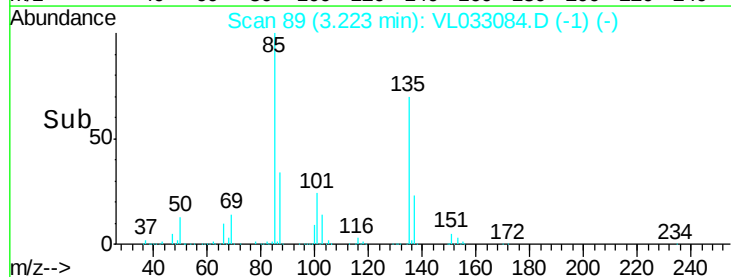
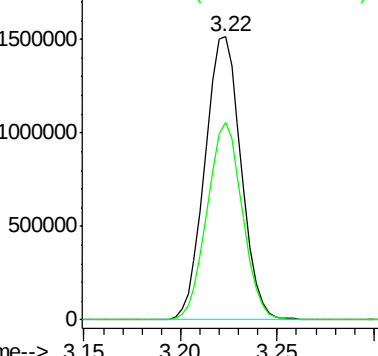
85 100

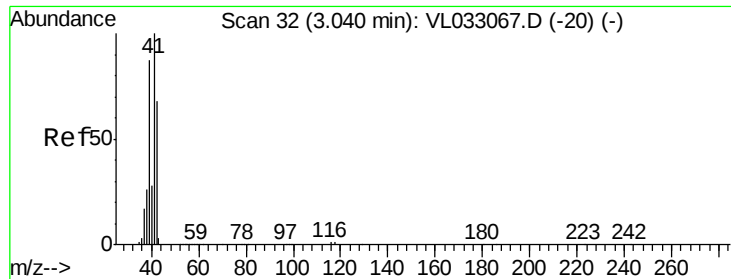
135 68.4 54.9 82.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 11.605 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL033084.D

Acq: 5 Jan 2019 1:40

Instrument :

MSVOA_L

ClientSampleId :

VL0104ABS01

Tot Ion: 41 Resp: 527253

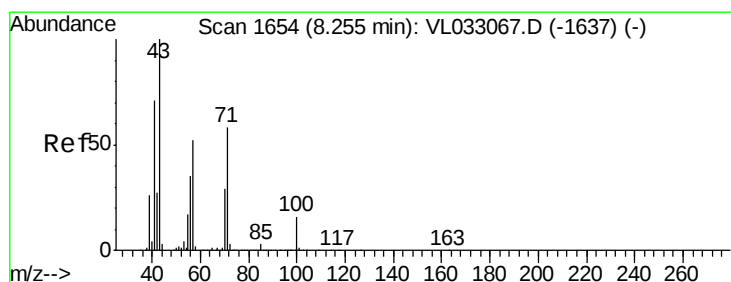
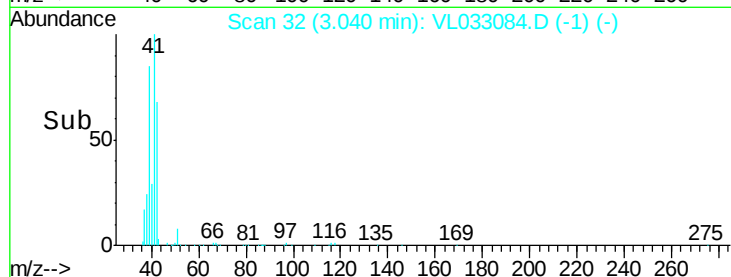
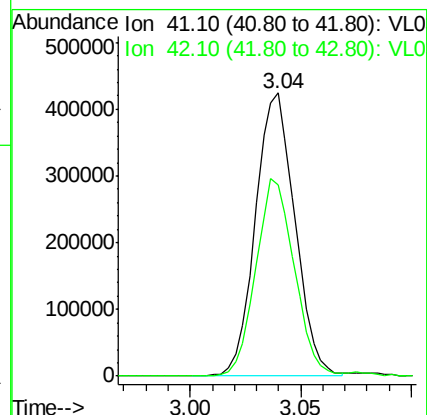
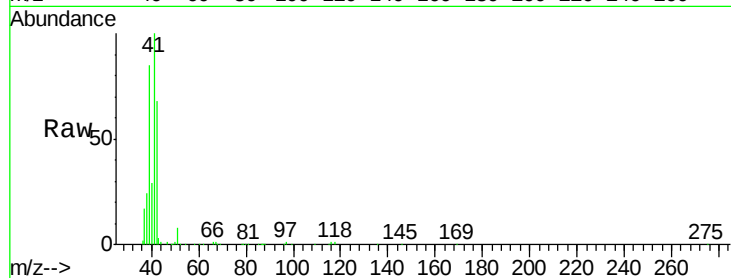
Ion Ratio Lower Upper

41 100

42 69.2 55.3 82.9

Manual Integrations
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1/8/2019 12:01:37 AM



#10

Heptane

Concen: 9.601 ppbv

RT: 8.26 min Scan# 1654

Delta R.T. 0.01 min

Lab File: VL033084.D

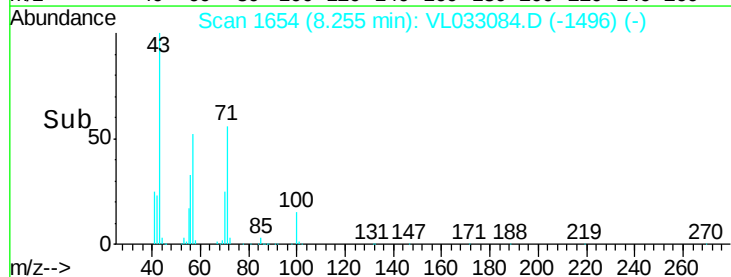
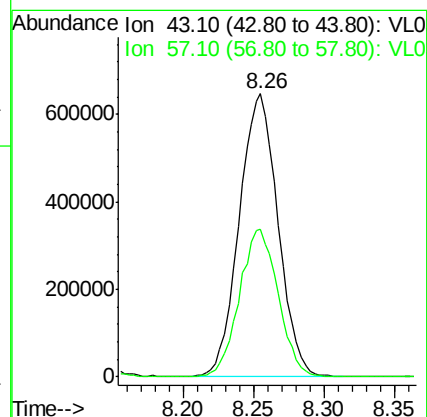
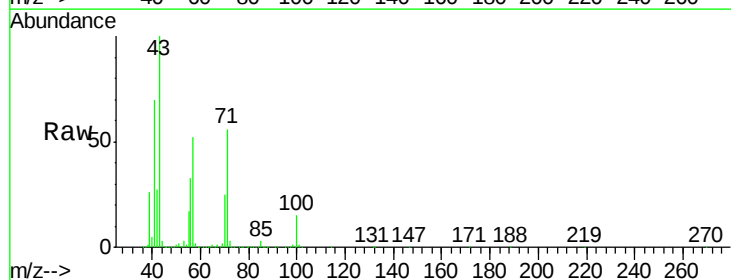
Acq: 5 Jan 2019 1:40

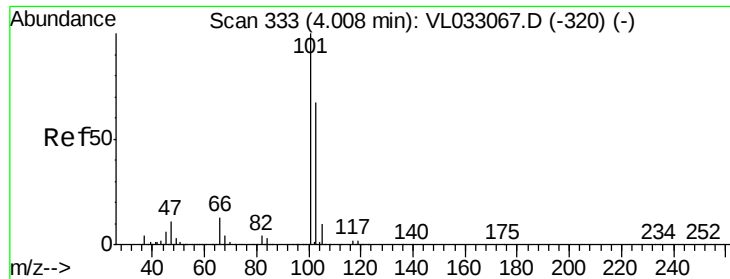
Tgt Ion: 43 Resp: 1241979

Ion Ratio Lower Upper

43 100

57 52.3 41.9 62.9





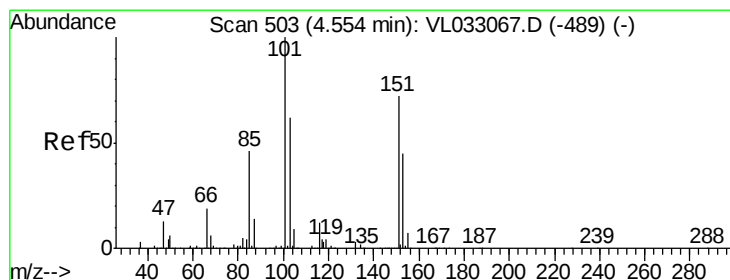
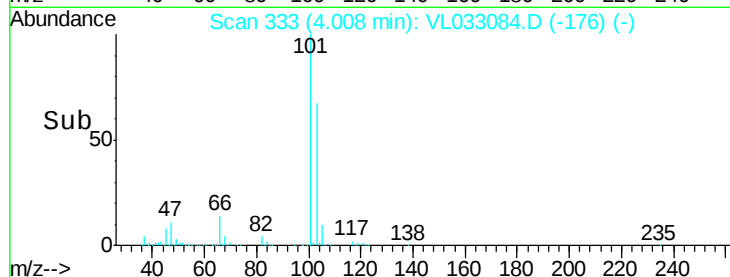
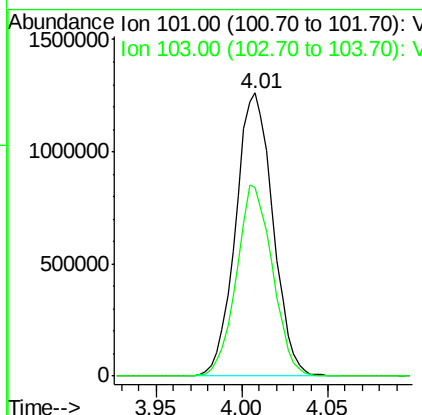
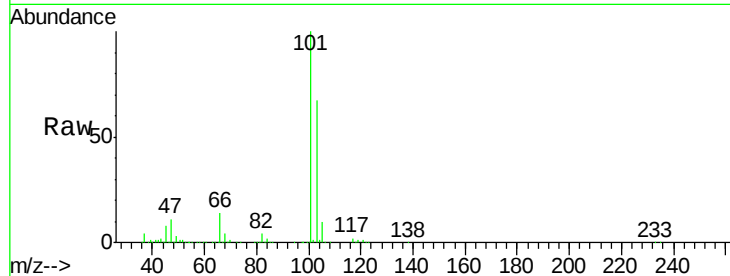
#11
 Trichlorofluoromethane
 Concen: 8.614 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. 0.00 min
 Lab File: VL033084.D
 Acq: 5 Jan 2019 1:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0104ABS01

Tot Ion:101 Resp: 1903312
 Ion Ratio Lower Upper
 101 100
 103 66.7 51.7 77.5

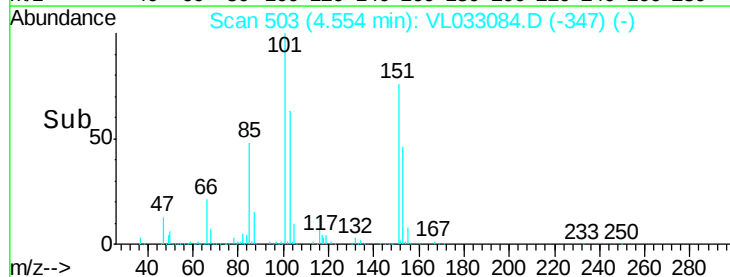
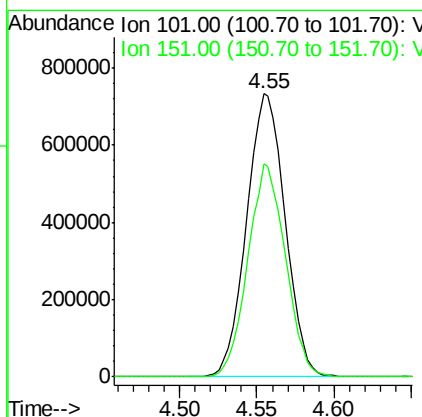
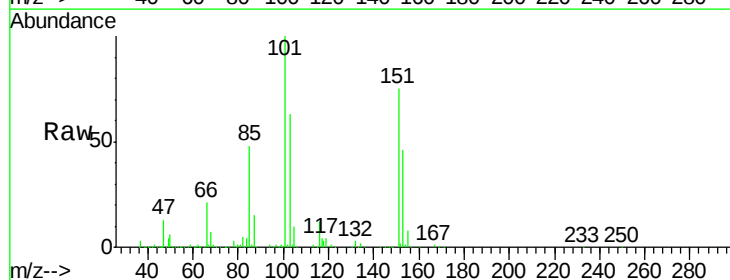
Manual Integrations
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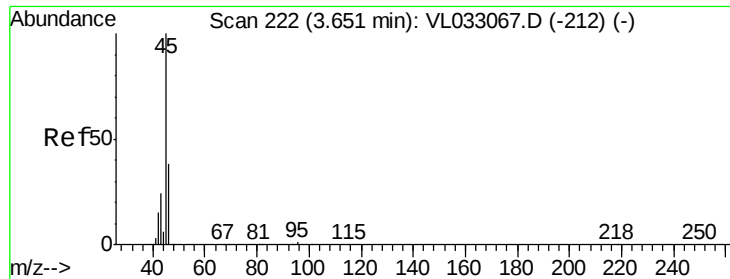
MMDadoda
 1/8/2019 12:01:37 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.130 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VL033084.D
 Acq: 5 Jan 2019 1:40

Tgt Ion:101 Resp: 1275581
 Ion Ratio Lower Upper
 101 100
 151 73.4 58.3 87.5





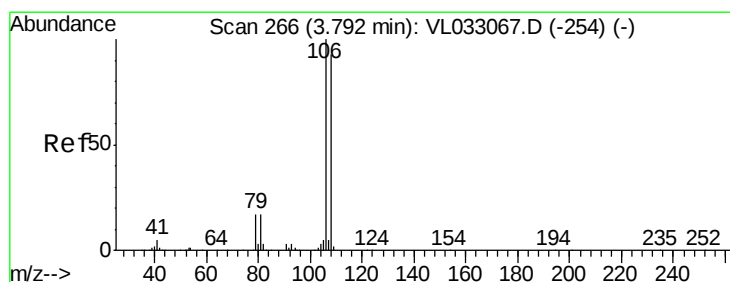
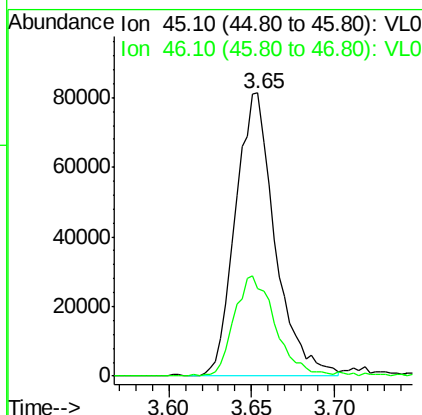
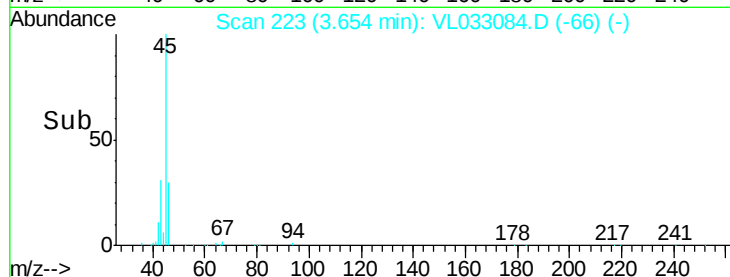
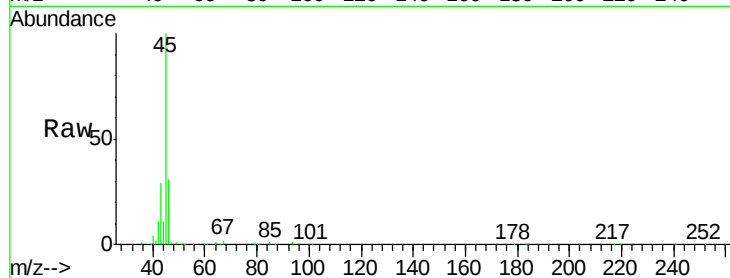
#13
Ethanol
Concen: 7.431 ppbv
RT: 3.65 min Scan# 223
Delta R.T. 0.00 min
Lab File: VL033084.D
Acq: 5 Jan 2019 1:40

Instrument :
MSVOA_L
ClientSampleId :
VL0104ABS01

Tot Ion: 45 Resp: 134643
Ion Ratio Lower Upper
45 100
46 37.0 13.8 55.2

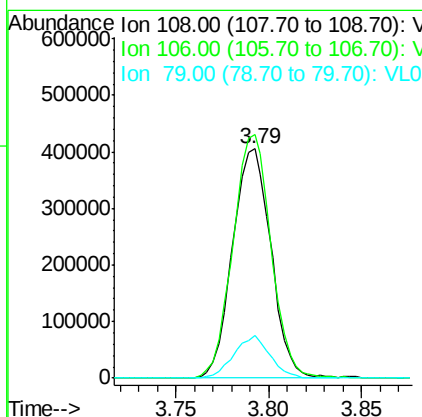
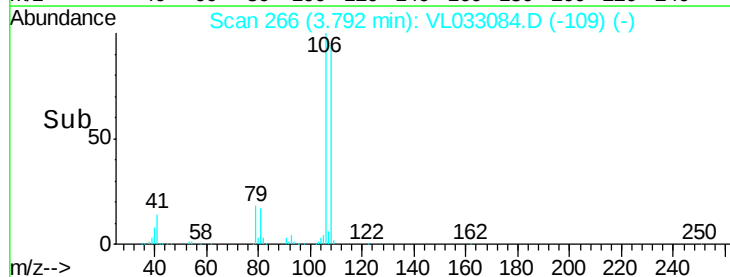
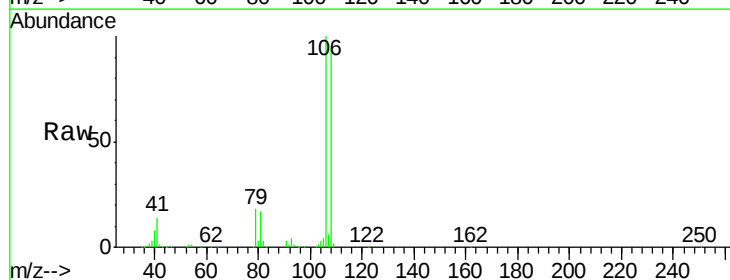
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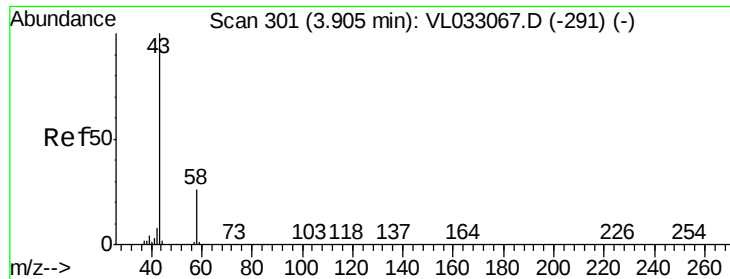
MMDadoda
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#14
Bromoethene
Concen: 9.448 ppbv
RT: 3.79 min Scan# 266
Delta R.T. 0.00 min
Lab File: VL033084.D
Acq: 5 Jan 2019 1:40

Tgt Ion: 108 Resp: 582988
Ion Ratio Lower Upper
108 100
106 106.4 86.4 129.6
79 17.9 14.3 21.5





#15

Acetone

Concen: 7.999 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.00 min

Lab File: VL033084.D

Acq: 5 Jan 2019 1:40

Tot Ion: 43 Resp: 1189559

Ion Ratio Lower Upper

43 100

58 26.3 21.1 31.7

Instrument :

MSVOA_L

ClientSampleId :

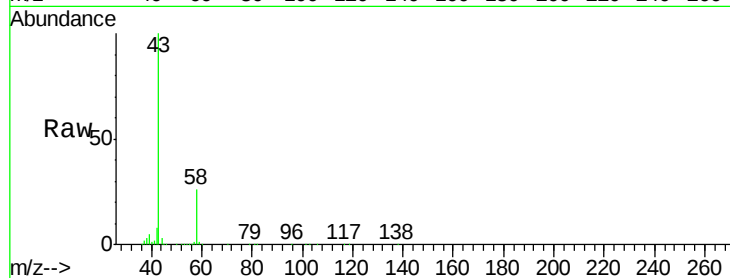
VL0104ABS01

Manual Integrations

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.90

800000

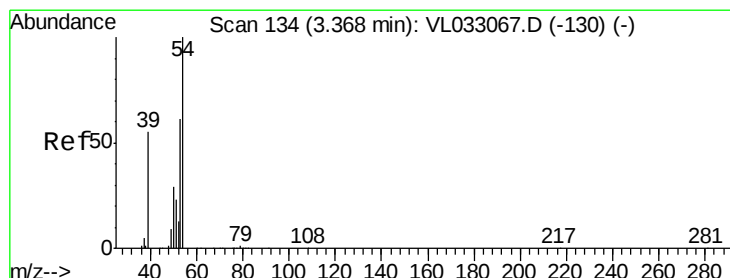
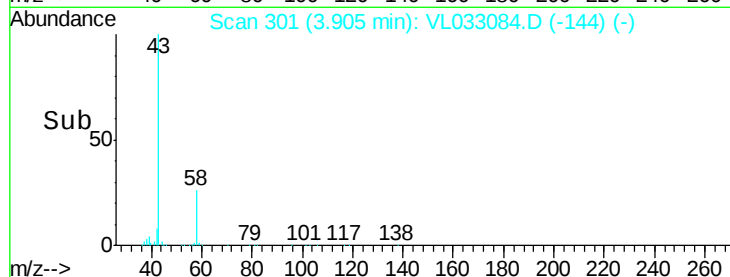
600000

400000

200000

0

Time-->



#16

1,3-Butadiene

Concen: 11.564 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033084.D

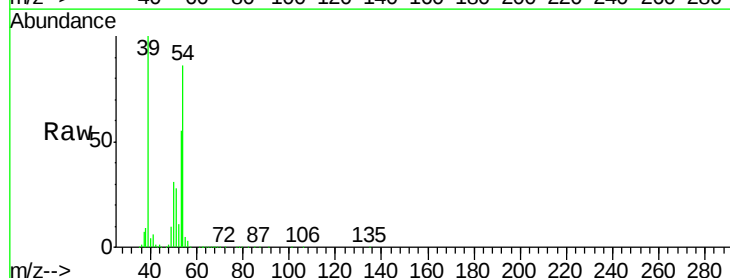
Acq: 5 Jan 2019 1:40

Tgt Ion: 39 Resp: 648495

Ion Ratio Lower Upper

39 100

54 91.3 73.7 110.5



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.36

600000

500000

400000

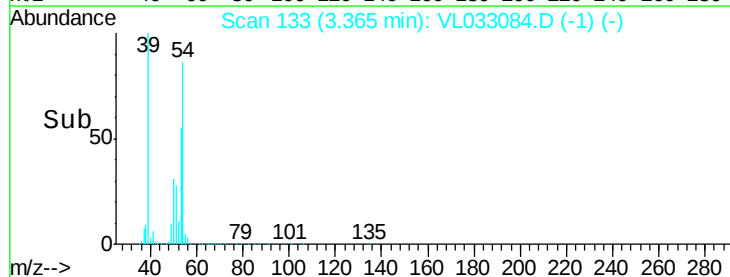
300000

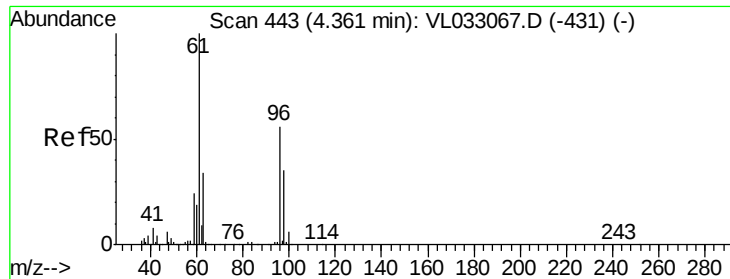
200000

100000

0

Time-->





#17

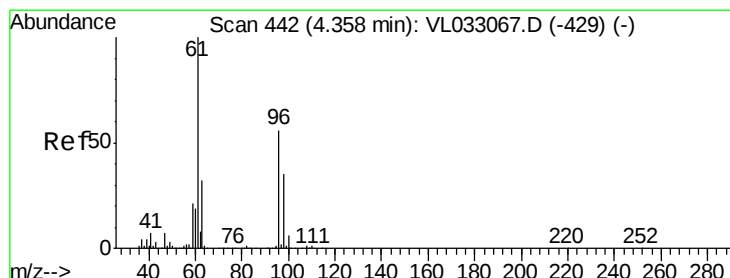
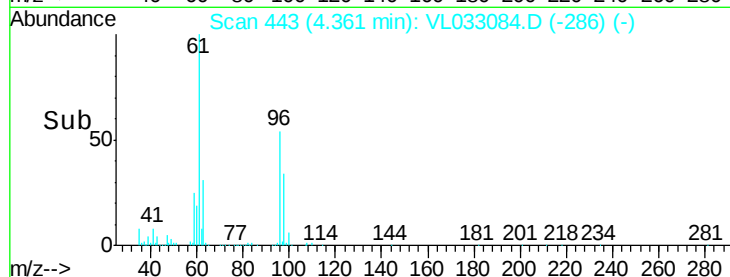
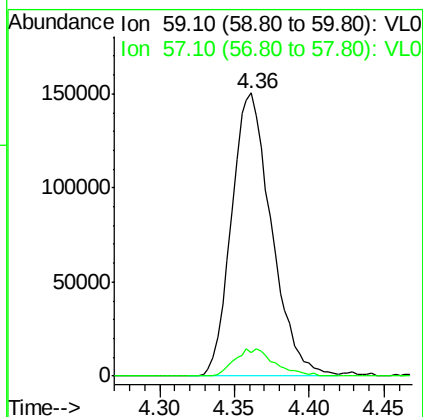
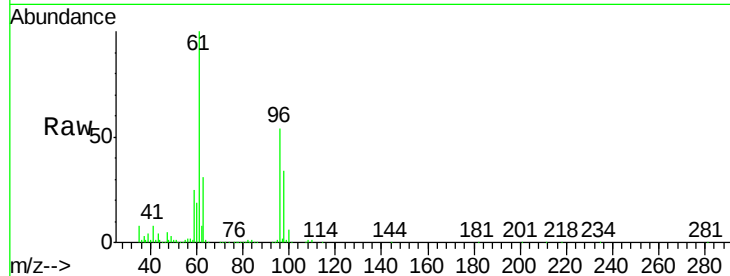
tert-Butyl alcohol
Concen: 8.872 ppbv
RT: 4.36 min Scan# 443
Delta R.T. 0.00 min
Lab File: VL033084.D
Acq: 5 Jan 2019 1:40

Instrument :
MSVOA_L
ClientSampleId :
VL0104ABS01

Tot Ion: 59 Resp: 279480
Ion Ratio Lower Upper
59 100
57 9.8 7.7 11.5

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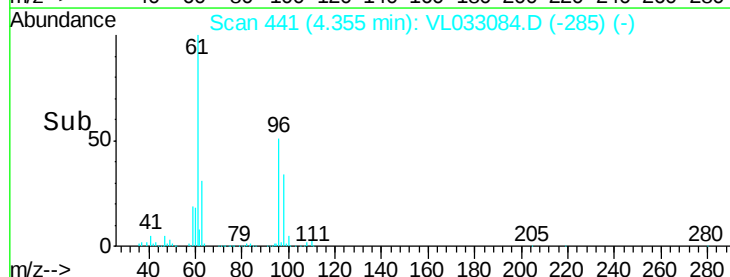
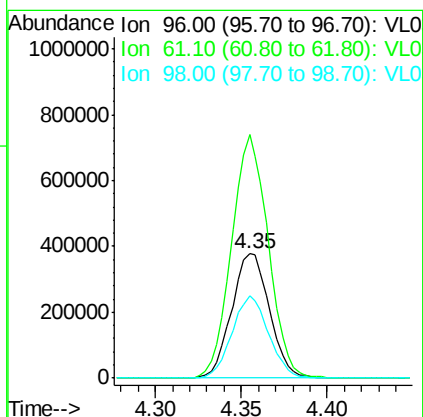
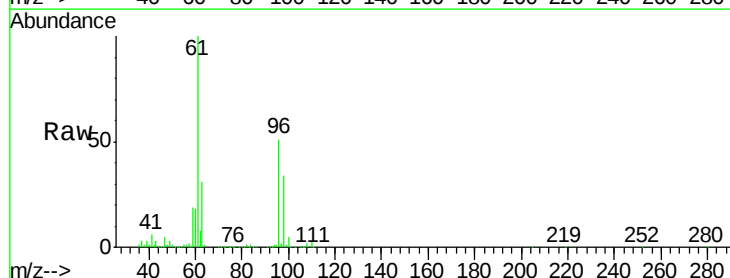
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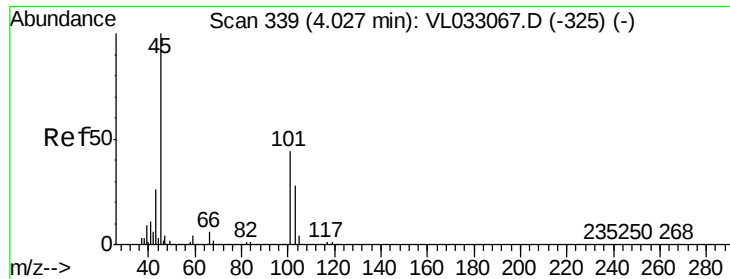


#18

1,1-Dichloroethene
Concen: 8.952 ppbv
RT: 4.35 min Scan# 441
Delta R.T. 0.00 min
Lab File: VL033084.D
Acq: 5 Jan 2019 1:40

Tgt Ion: 96 Resp: 576102
Ion Ratio Lower Upper
96 100
61 195.4 143.7 215.5
98 66.5 52.1 78.1





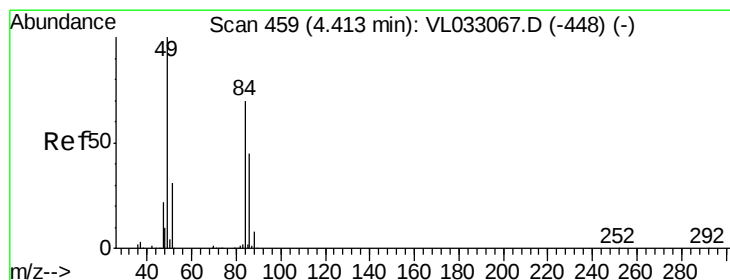
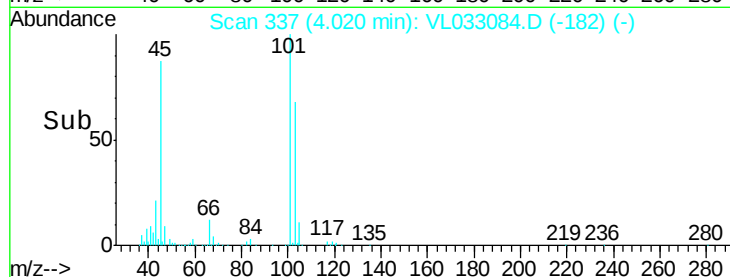
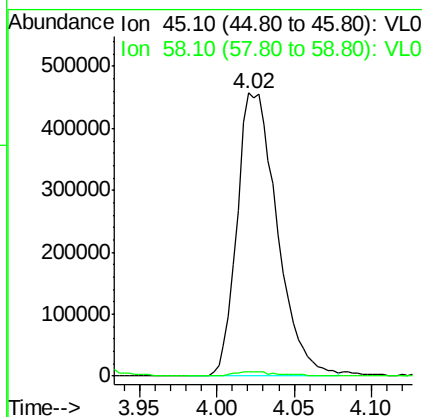
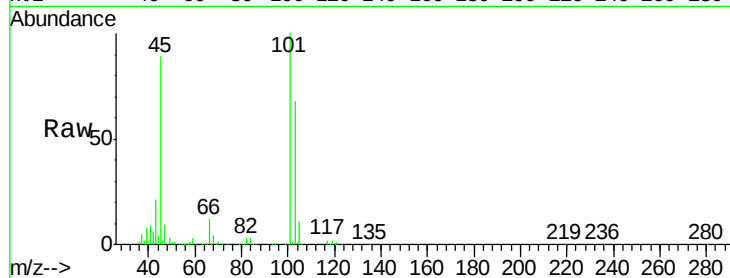
#19
Isopropyl Alcohol
Concen: 8.051 ppbv
RT: 4.02 min Scan# 337
Delta R.T. -0.00 min
Lab File: VL033084.D
Acq: 5 Jan 2019 1:40

Instrument :
MSVOA_L
ClientSampleId :
VL0104ABS01

Tot Ion: 45 Resp: 824224
Ion Ratio Lower Upper
45 100
58 2.0 1.4 2.2

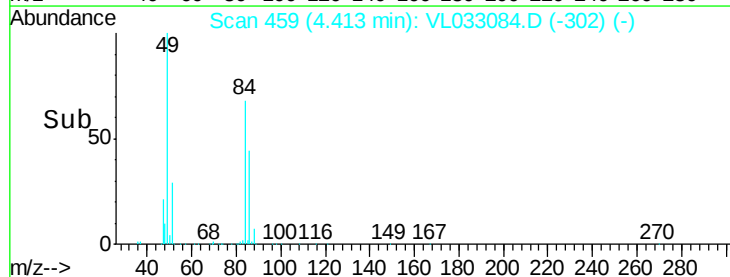
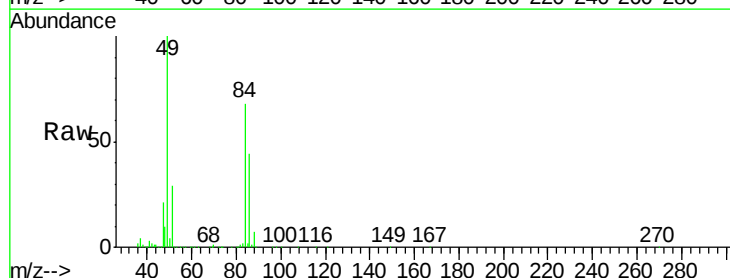
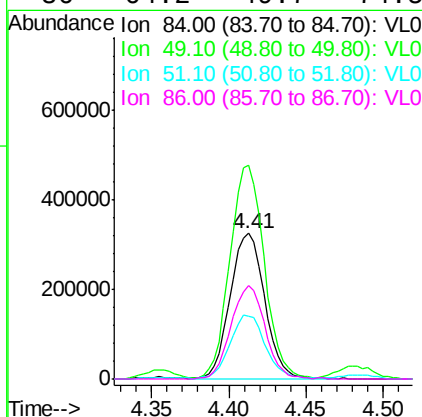
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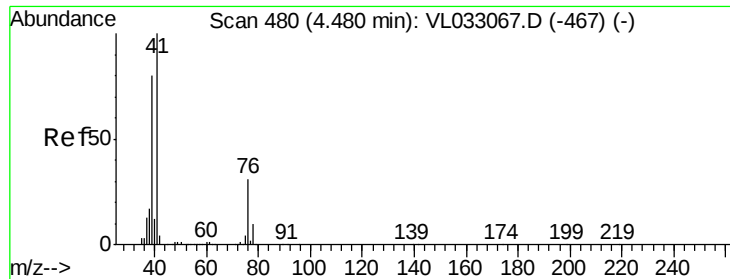
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#20
Methylene Chloride
Concen: 8.076 ppbv
RT: 4.41 min Scan# 459
Delta R.T. 0.00 min
Lab File: VL033084.D
Acq: 5 Jan 2019 1:40

Tgt Ion: 84 Resp: 500657
Ion Ratio Lower Upper
84 100
49 146.4 115.8 173.6
51 42.6 35.7 53.5
86 64.2 49.7 74.5





#21

Allvl Chloride

Concen: 9.778 ppbv

RT: 4.48 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL033084.D

Acq: 5 Jan 2019 1:40

Instrument :

MSVOA_L

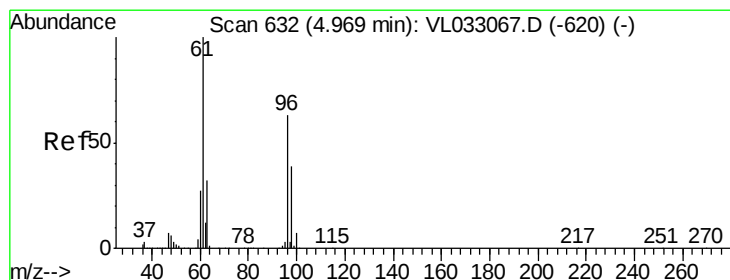
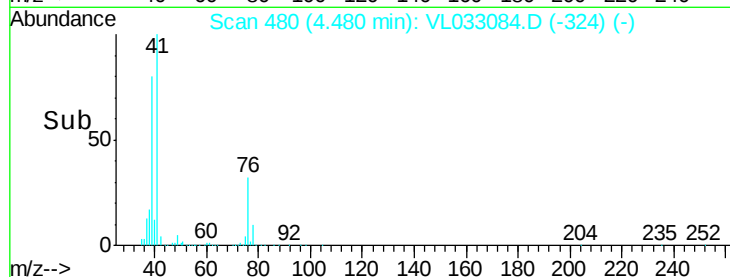
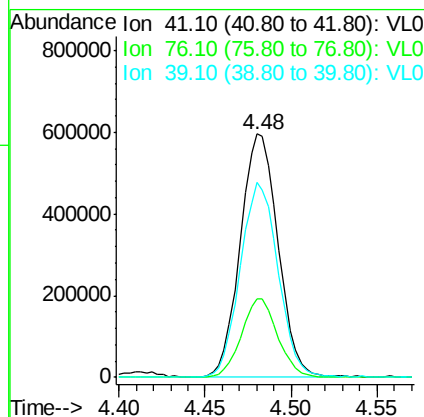
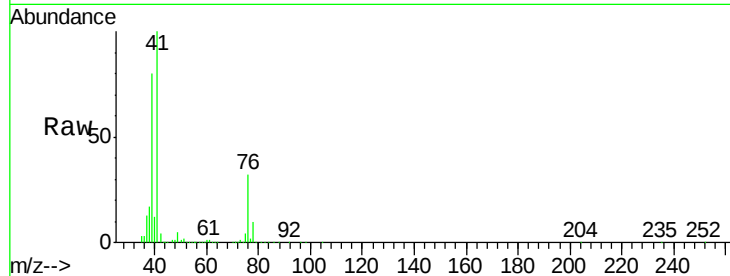
ClientSampleId :

VL0104ABS01

Tot Ion:	41	Resp:	901114
Ion	Ratio	Lower	Upper
41	100		
76	31.4	24.6	36.8
39	80.8	62.8	94.2

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#22

trans-1,2-Dichloroethene

Concen: 9.315 ppbv

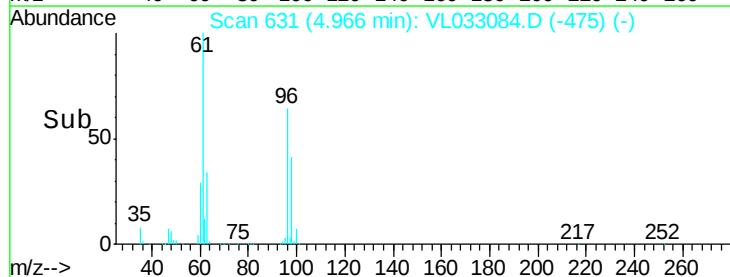
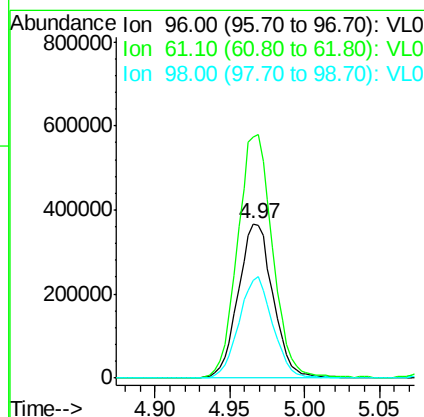
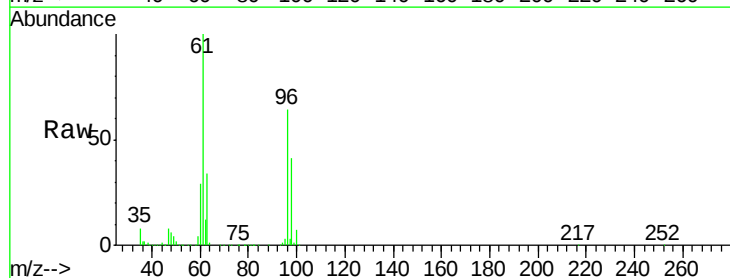
RT: 4.97 min Scan# 631

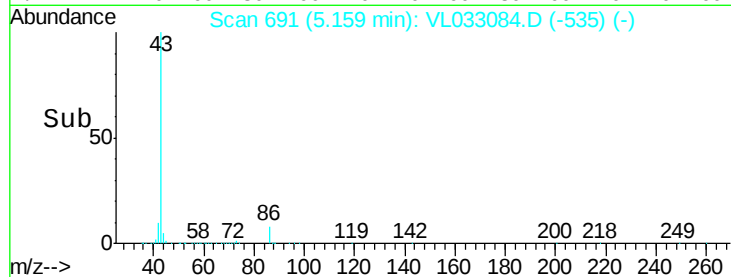
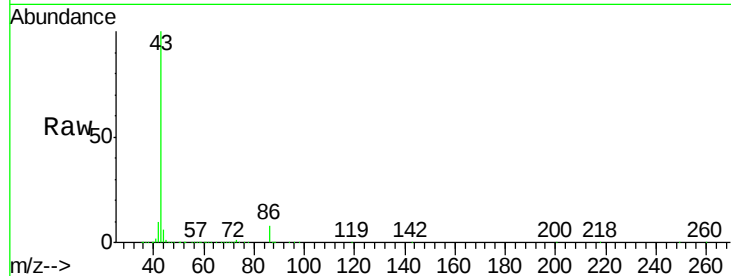
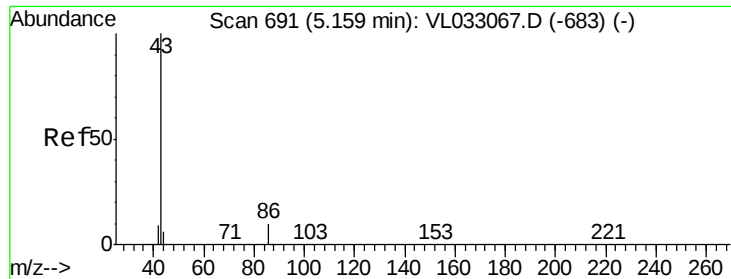
Delta R.T. 0.00 min

Lab File: VL033084.D

Acq: 5 Jan 2019 1:40

Tgt Ion:	96	Resp:	594214
Ion	Ratio	Lower	Upper
96	100		
61	155.8	125.2	187.8
98	63.2	50.9	76.3





#23

Vinyl Acetate

Concen: 9.590 ppbv

RT: 5.16 min Scan# 691

Delta R.T. 0.00 min

Lab File: VL033084.D

Acq: 5 Jan 2019 1:40

Tot Ion: 43 Resp: 1814250

Ion Ratio Lower Upper

43 100

86 8.4 6.2 9.4

42 9.8 8.1 12.1

44 5.6 4.3 6.5

Instrument :

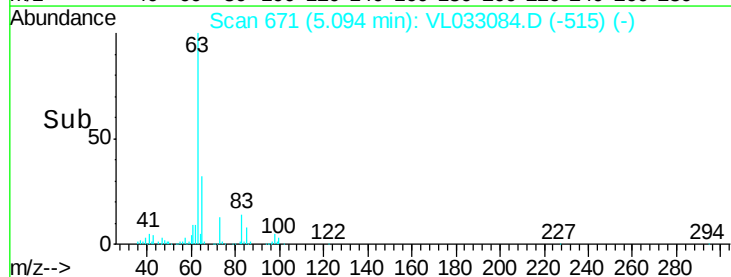
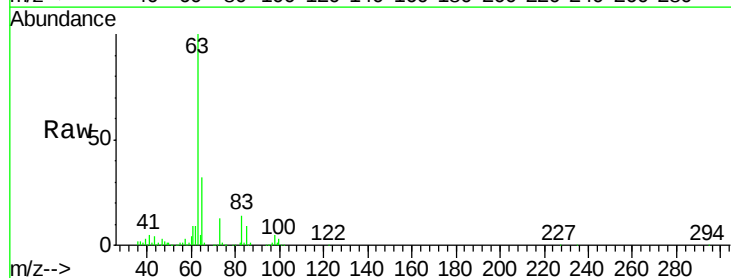
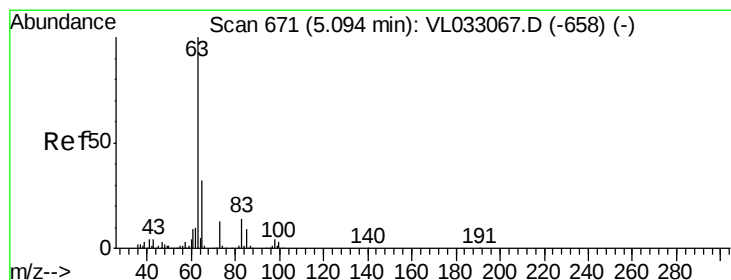
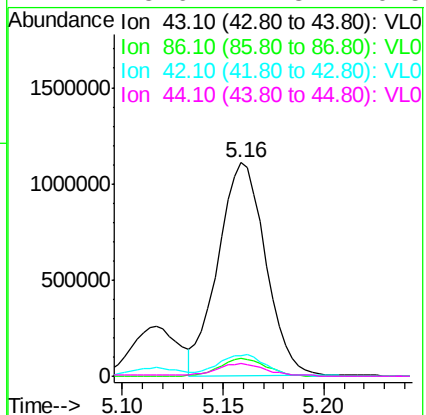
MSVOA_L

ClientSampleId :

VL0104ABS01

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#24

1,1-Dichloroethane

Concen: 8.946 ppbv

RT: 5.09 min Scan# 671

Delta R.T. 0.00 min

Lab File: VL033084.D

Acq: 5 Jan 2019 1:40

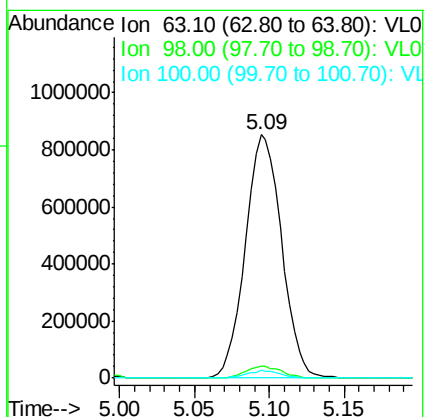
Tgt Ion: 63 Resp: 1436970

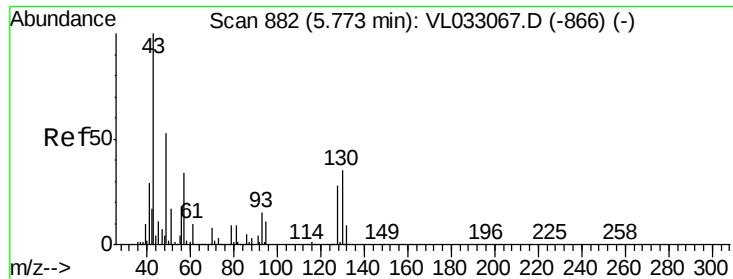
Ion Ratio Lower Upper

63 100

98 4.8 2.4 7.2

100 3.1 1.4 4.0





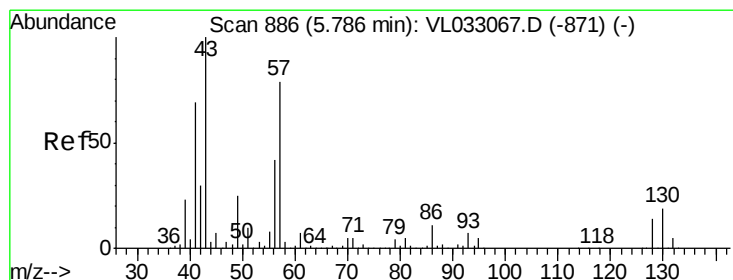
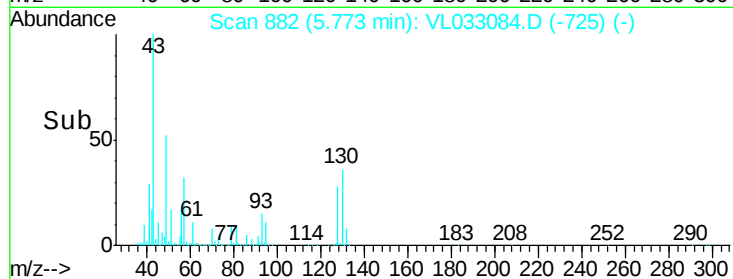
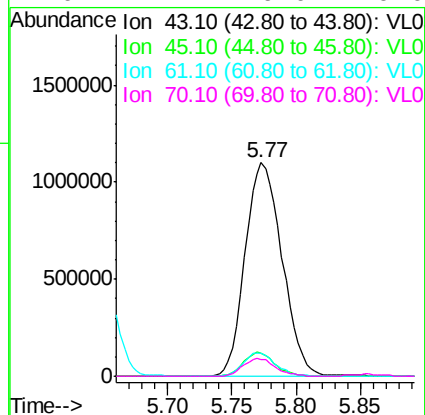
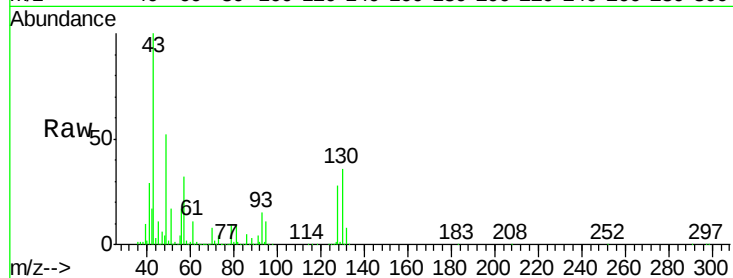
#25
Ethyl Acetate
Concen: 8.712 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.00 min
Lab File: VL033084.D
Acq: 5 Jan 2019 1:40

Instrument :
MSVOA_L
ClientSampleId :
VL0104ABS01

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.9	11.9
61	9.6	7.8	11.8
70	7.2	6.0	9.0

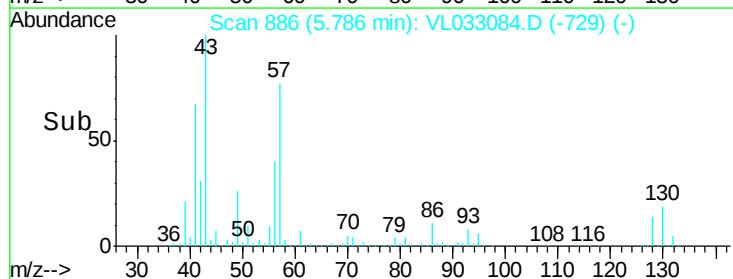
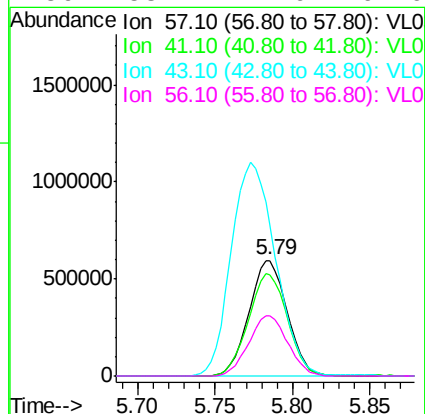
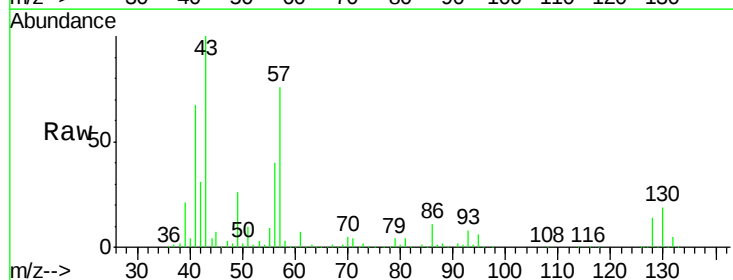
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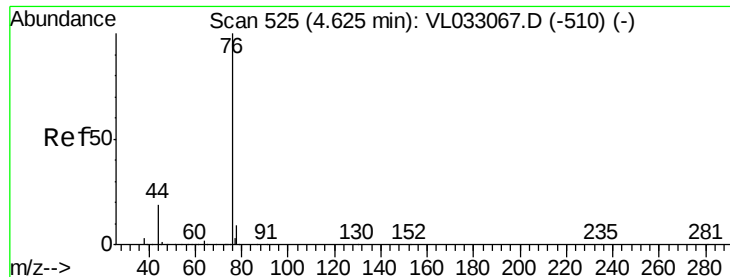
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#26
Hexane
Concen: 8.638 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.00 min
Lab File: VL033084.D
Acq: 5 Jan 2019 1:40

Tgt Ion	Ratio	Lower	Upper
57	100		
41	90.8	70.8	106.2
43	215.5	171.8	257.6
56	53.1	41.9	62.9





#27

Carbon Disulfide

Concen: 10.055 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033084.D

Acq: 5 Jan 2019 1:40

Instrument :

MSVOA_L

ClientSampleId :

VL0104ABS01

Tot Ion: 76 Resp: 1467781

Ion Ratio Lower Upper

76 100

44 17.8 13.9 20.9

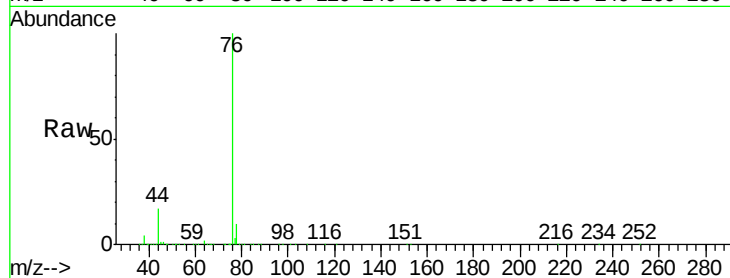
78 9.2 7.3 10.9

Manual Integrations

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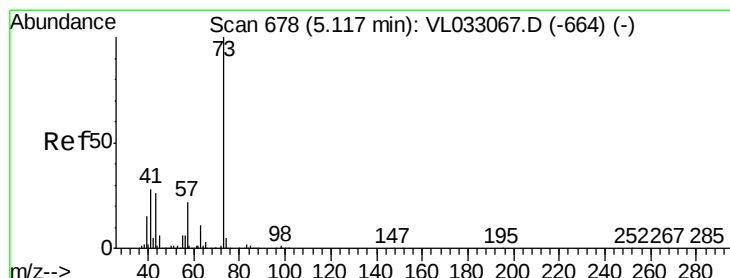
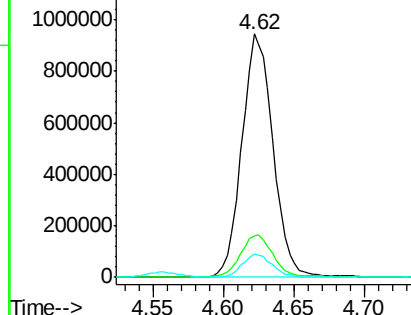
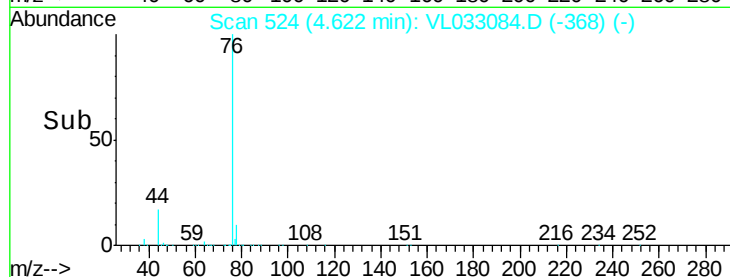
1/8/2019 12:01:37 AM



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.370 ppbv

RT: 5.12 min Scan# 678

Delta R.T. 0.00 min

Lab File: VL033084.D

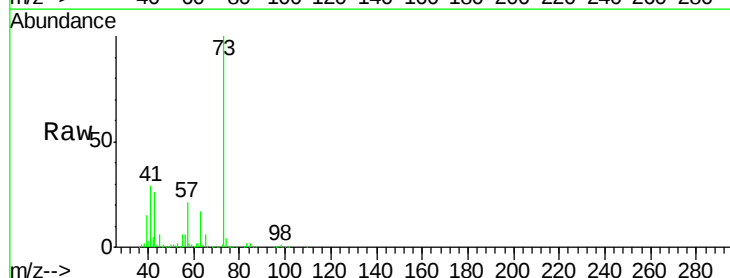
Acq: 5 Jan 2019 1:40

Tgt Ion: 73 Resp: 1731063

Ion Ratio Lower Upper

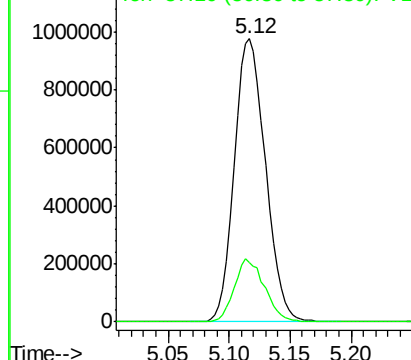
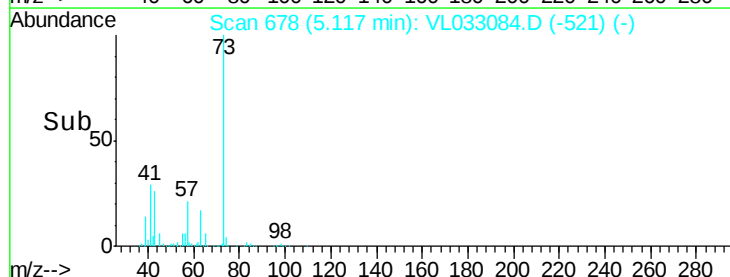
73 100

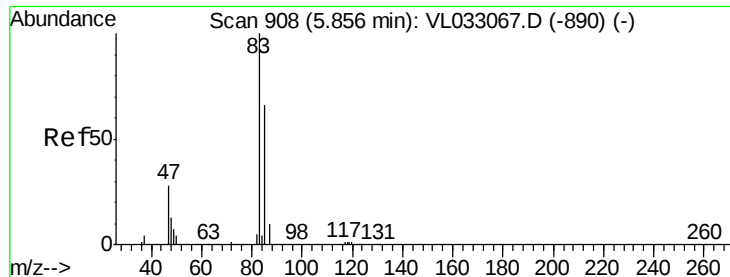
57 21.7 17.5 26.3



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





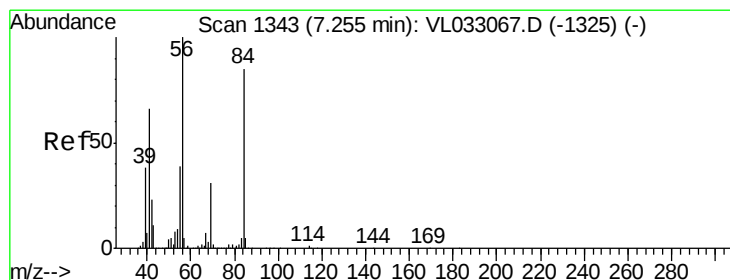
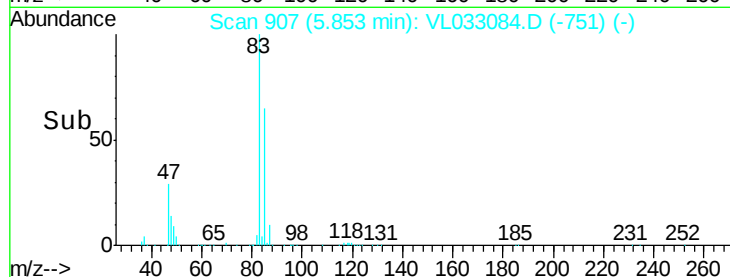
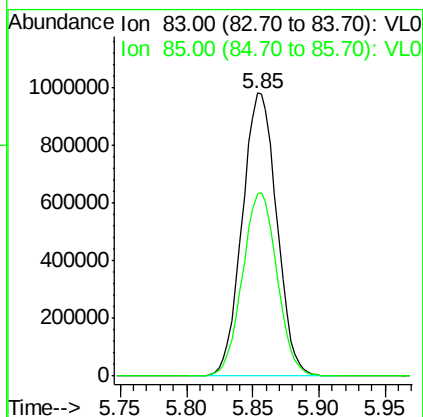
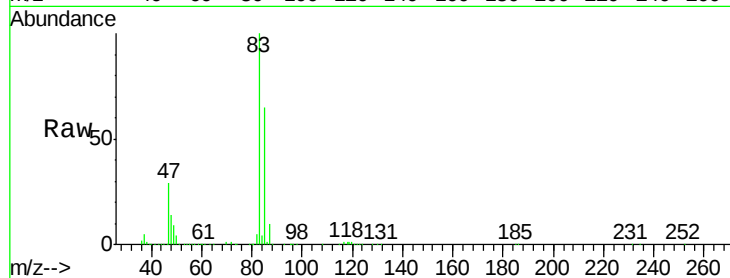
#29
Chloroform
Concen: 8.813 ppbv
RT: 5.85 min Scan# 907
Delta R.T. 0.00 min
Lab File: VL033084.D
Acq: 5 Jan 2019 1:40

Instrument :
MSVOA_L
ClientSampleId :
VL0104ABS01

Tot Ion: 83 Resp: 1777766
Ion Ratio Lower Upper
83 100
85 64.4 52.5 78.7

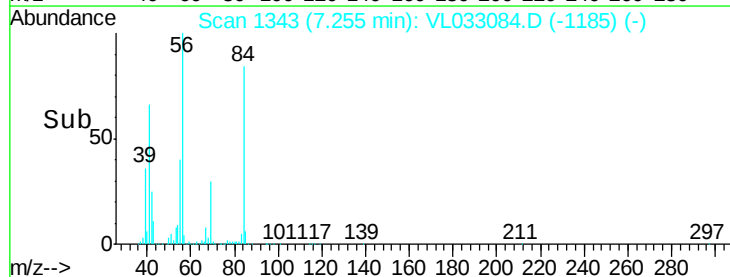
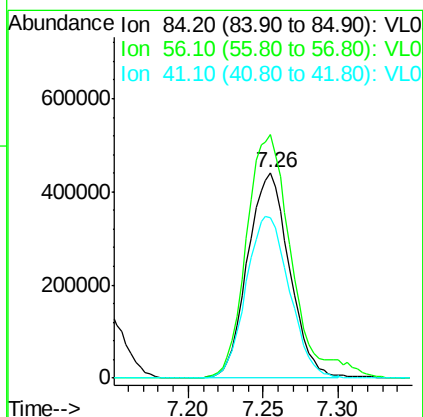
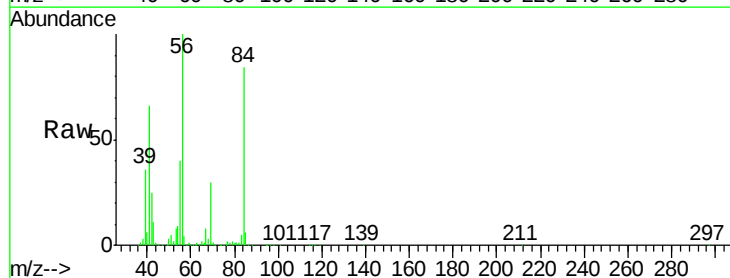
Manual Integrations
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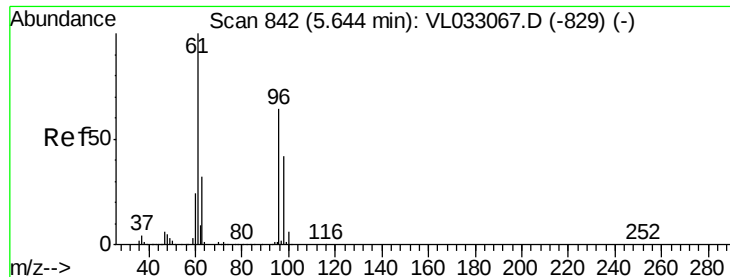
MMDadoda
1/8/2019 12:01:37 AM



#30
Cyclohexane
Concen: 9.716 ppbv
RT: 7.26 min Scan# 1343
Delta R.T. 0.01 min
Lab File: VL033084.D
Acq: 5 Jan 2019 1:40

Tgt Ion: 84 Resp: 857478
Ion Ratio Lower Upper
84 100
56 128.2 101.8 152.6
41 81.4 63.2 94.8





#31

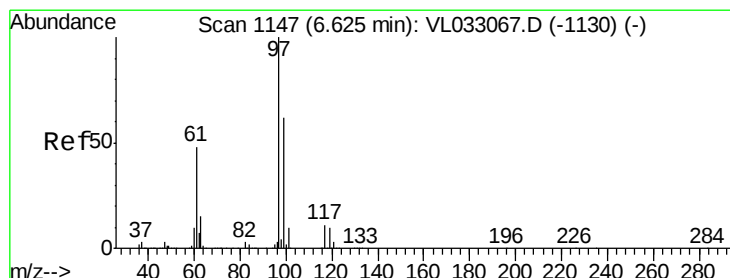
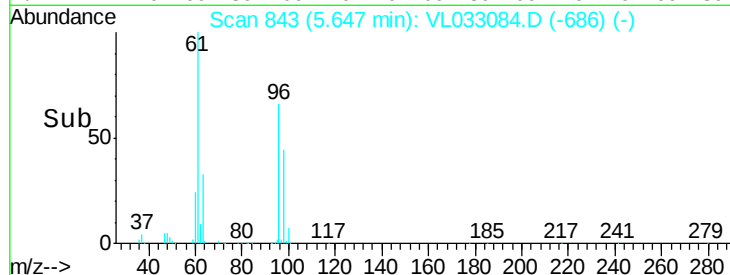
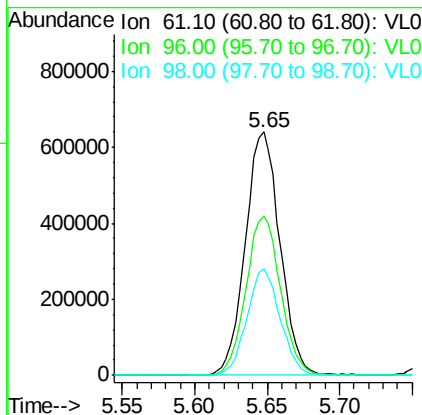
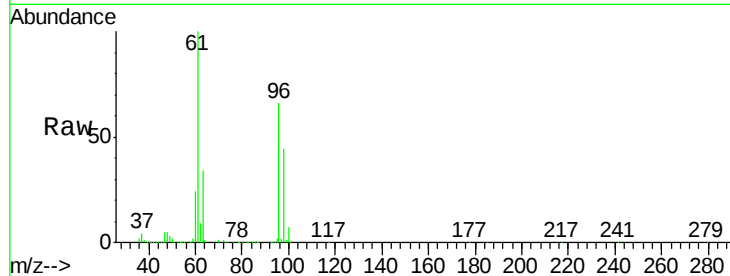
cis-1,2-Dichloroethene
Concen: 9.741 ppbv
RT: 5.65 min Scan# 843
Delta R.T. 0.00 min
Lab File: VL033084.D
Acq: 5 Jan 2019 1:40

Instrument :
MSVOA_L
ClientSampleId :
VL0104ABS01

Tot Ion: 61 Resp: 1070585
Ion Ratio Lower Upper
61 100
96 65.6 52.8 79.2
98 43.8 33.8 50.6

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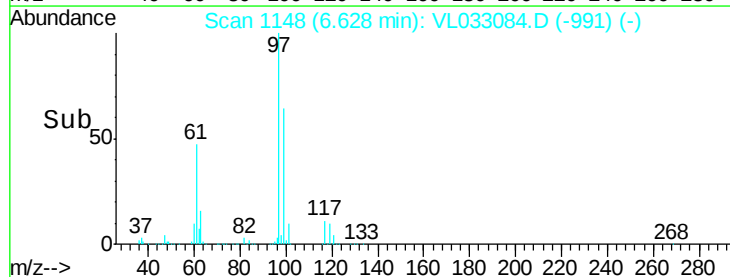
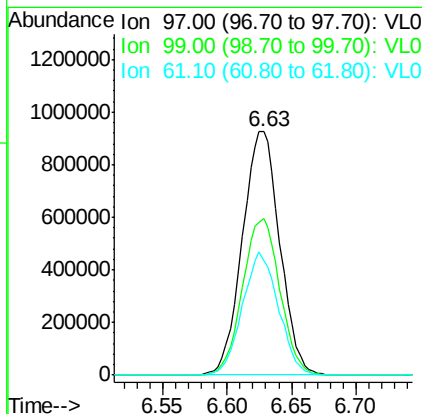
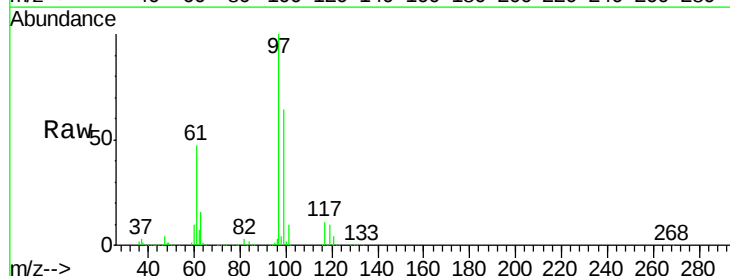
MMDadoda
1/8/2019 12:01:37 AM

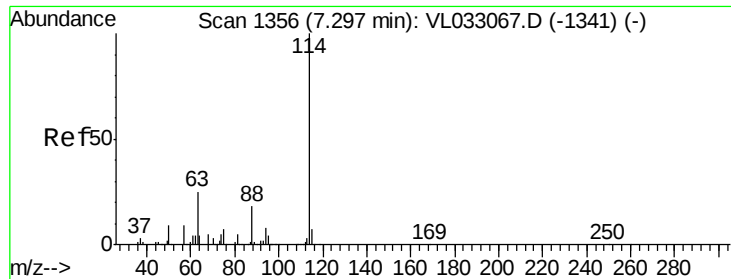


#32

1,1,1-Trichloroethane
Concen: 9.147 ppbv
RT: 6.63 min Scan# 1148
Delta R.T. 0.00 min
Lab File: VL033084.D
Acq: 5 Jan 2019 1:40

Tgt Ion: 97 Resp: 1872573
Ion Ratio Lower Upper
97 100
99 64.2 51.1 76.7
61 48.6 38.3 57.5





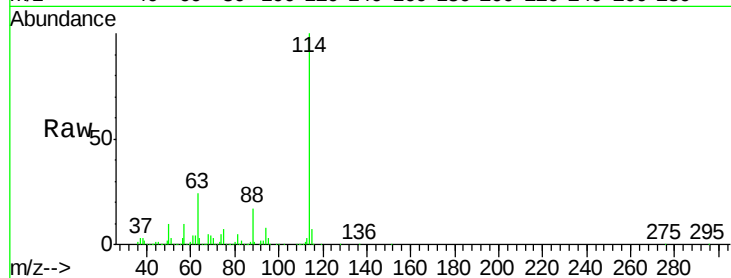
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1357
 Delta R.T. 0.00 min
 Lab File: VL033084.D
 Acq: 5 Jan 2019 1:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0104ABS01

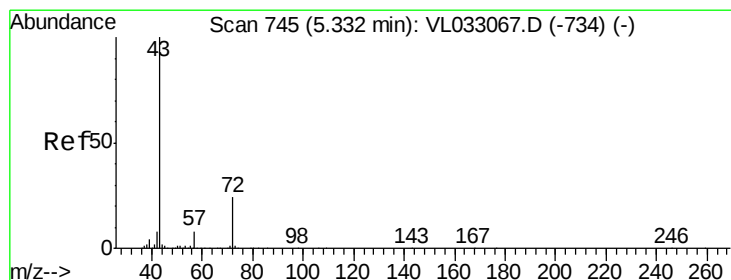
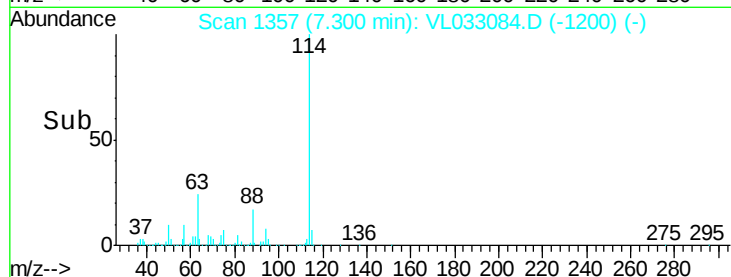
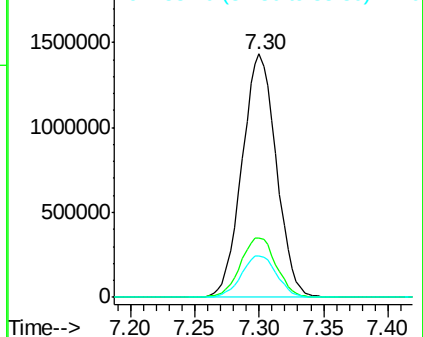
Tot Ion	Ratio	Lower	Upper
114	100		
63	25.7	20.1	30.1
88	17.7	14.0	21.0

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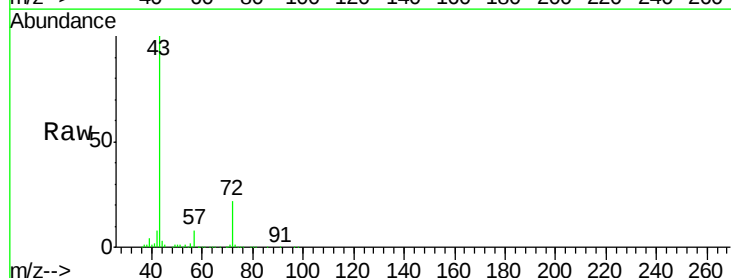


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

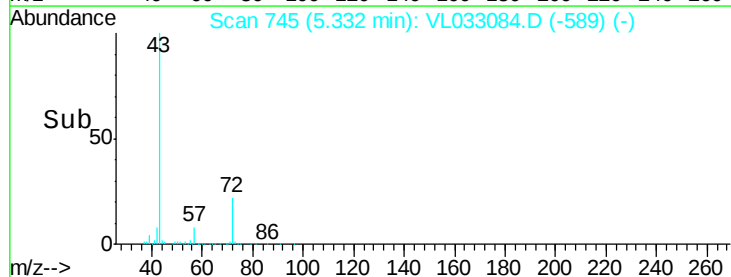
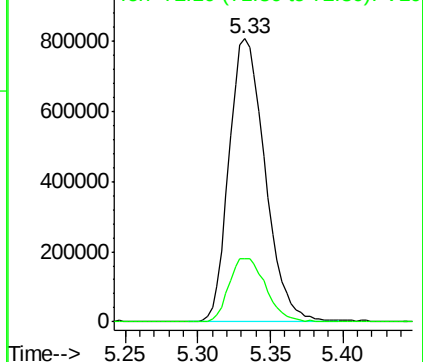


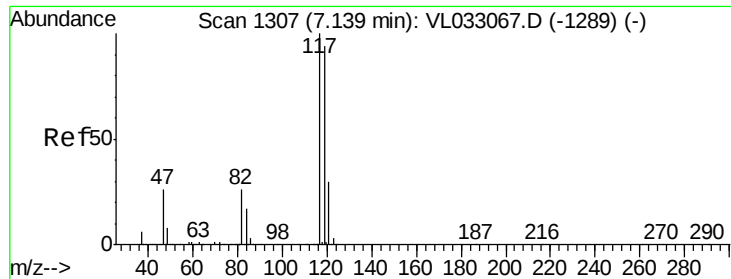
#34
 2-Butanone
 Concen: 9.021 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. 0.00 min
 Lab File: VL033084.D
 Acq: 5 Jan 2019 1:40

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.3	18.9	28.3



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





#35

Carbon Tetrachloride

Concen: 8.875 ppbv

RT: 7.14 min Scan# 1308

Delta R.T. 0.00 min

Lab File: VL033084.D

Acq: 5 Jan 2019 1:40

Instrument :

MSVOA_L

ClientSampleId :

VL0104ABS01

Tot Ion:117 Resp: 2020447

Ion Ratio Lower Upper

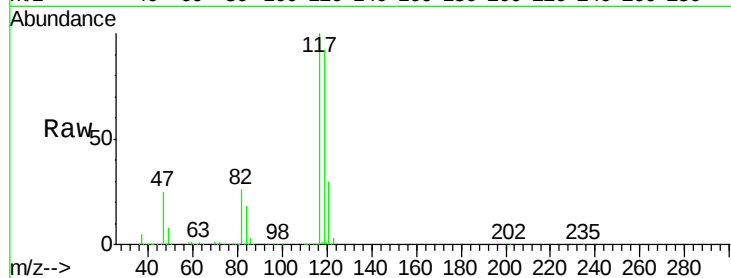
117 100

119 92.2 76.5 114.7

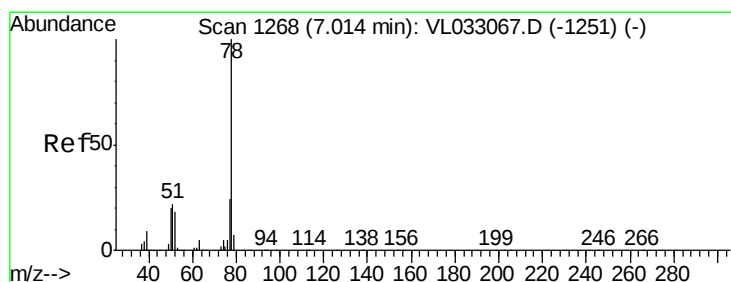
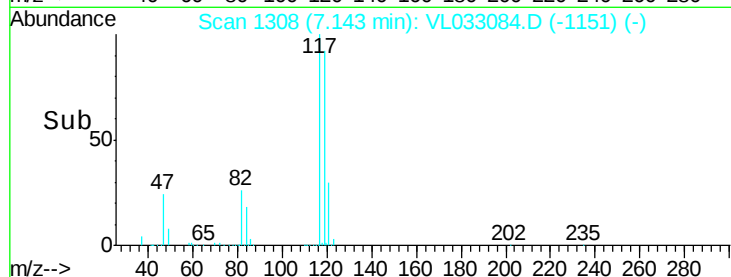
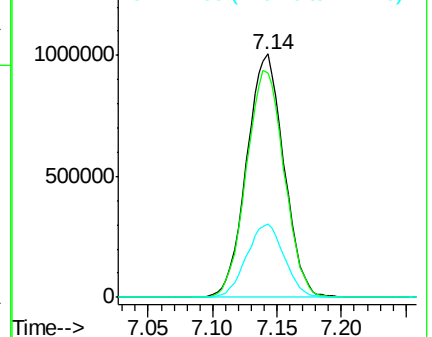
121 30.4 25.2 37.8

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



#36

Benzene

Concen: 9.328 ppbv

RT: 7.01 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VL033084.D

Acq: 5 Jan 2019 1:40

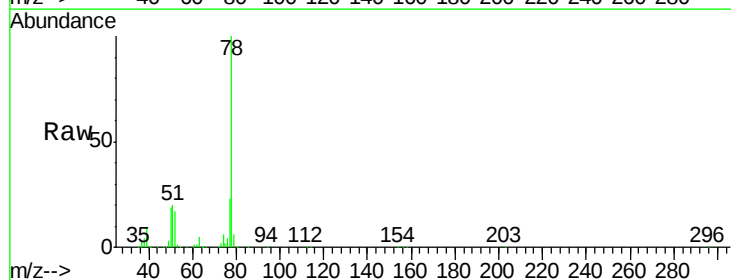
Tgt Ion: 78 Resp: 2025146

Ion Ratio Lower Upper

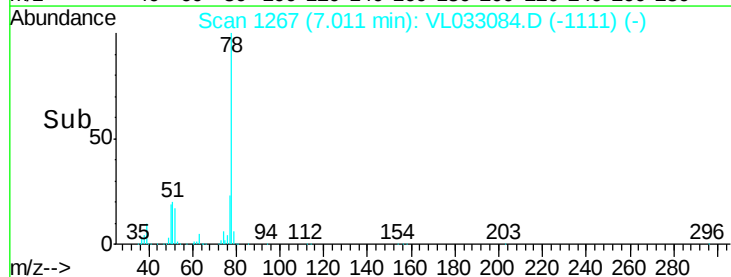
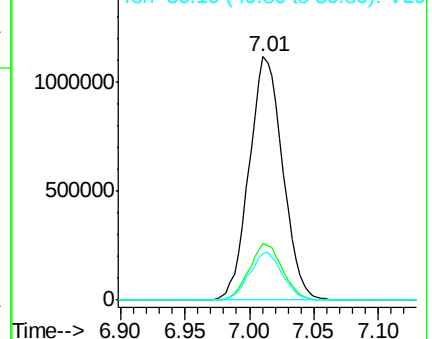
78 100

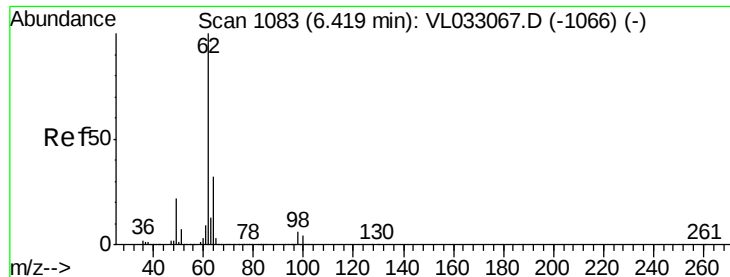
77 23.3 18.5 27.7

50 19.1 15.7 23.5



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





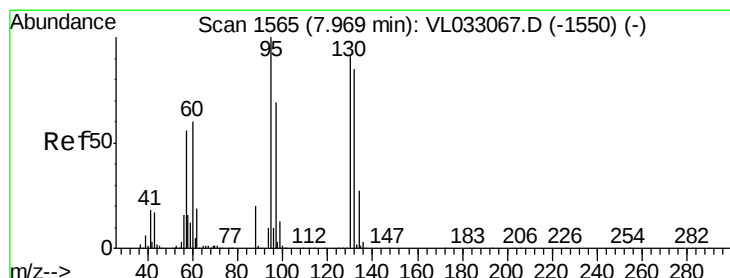
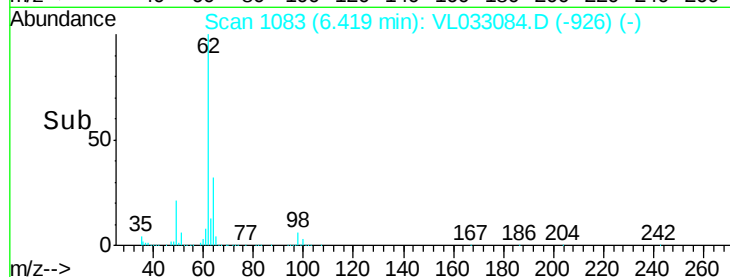
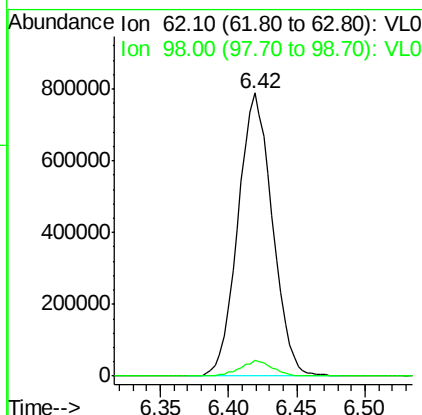
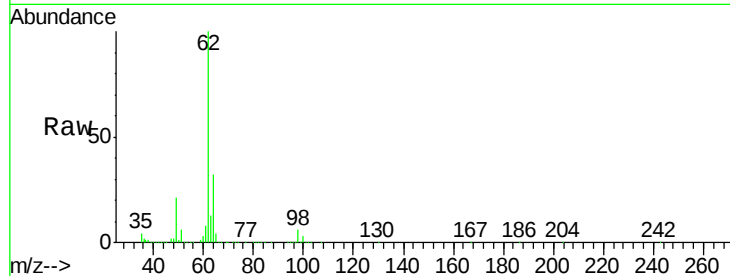
#37
 1,2-Dichloroethane
 Concen: 9.111 ppbv
 RT: 6.42 min Scan# 1083
 Delta R.T. 0.00 min
 Lab File: VL033084.D
 Acq: 5 Jan 2019 1:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0104ABS01

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.3	4.6	7.0

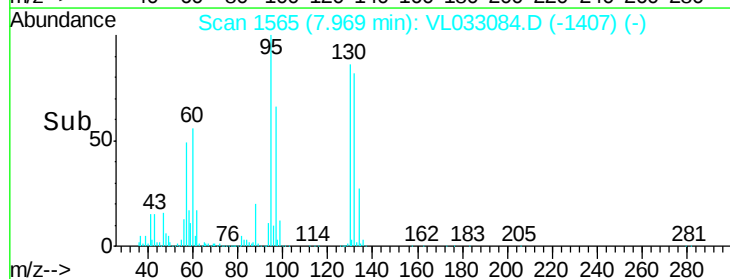
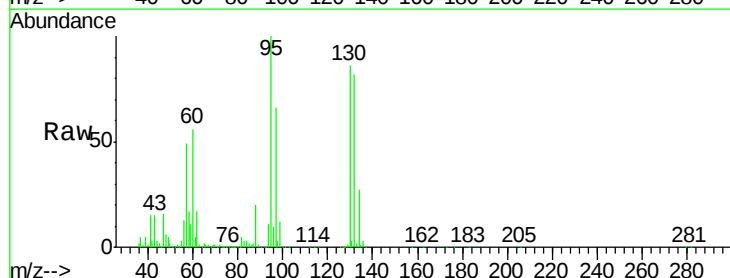
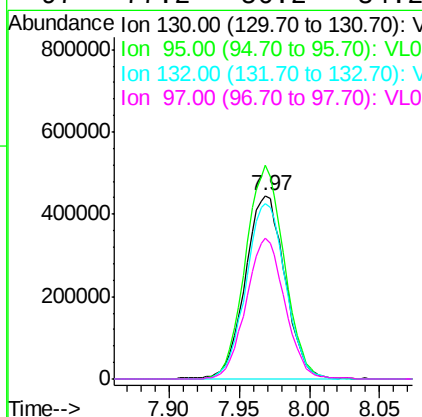
Manual Integrations
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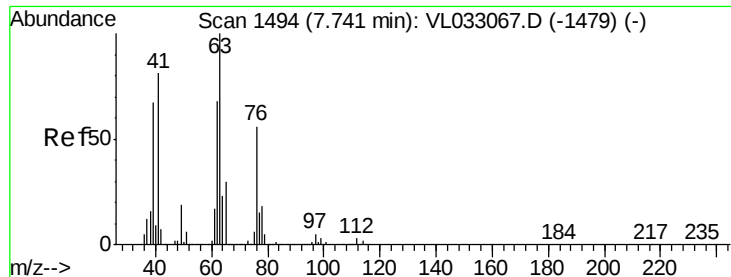
MMDadoda
 1/8/2019 12:01:37 AM



#38
 Trichloroethene
 Concen: 9.703 ppbv
 RT: 7.97 min Scan# 1565
 Delta R.T. 0.01 min
 Lab File: VL033084.D
 Acq: 5 Jan 2019 1:40

Tgt Ion	Ratio	Lower	Upper
130	100		
95	116.6	88.6	132.8
132	95.9	74.2	111.2
97	77.2	56.2	84.2





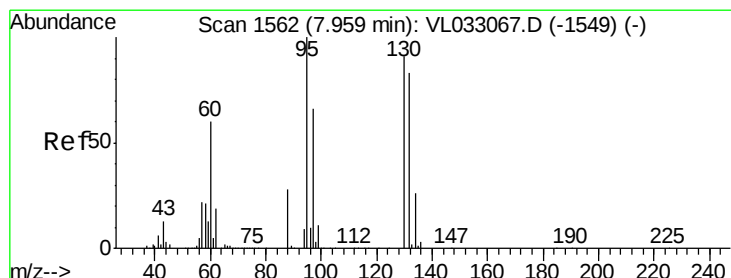
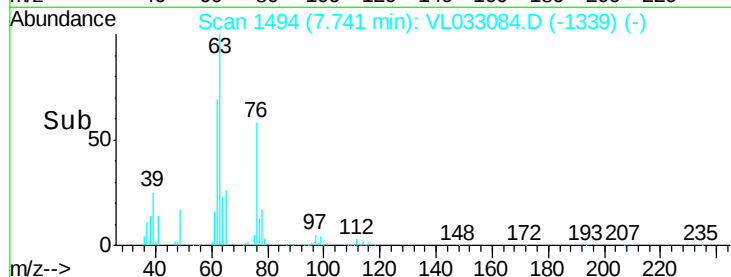
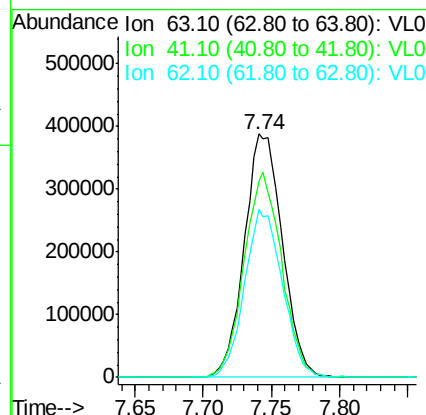
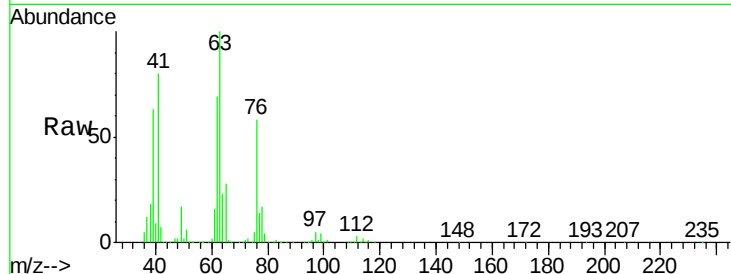
#39
 1,2-Dichloropropane
 Concen: 9.244 ppbv
 RT: 7.74 min Scan# 1494
 Delta R.T. -0.00 min
 Lab File: VL033084.D
 Acq: 5 Jan 2019 1:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0104ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	80.4	61.9	92.9
62	69.0	55.8	83.6

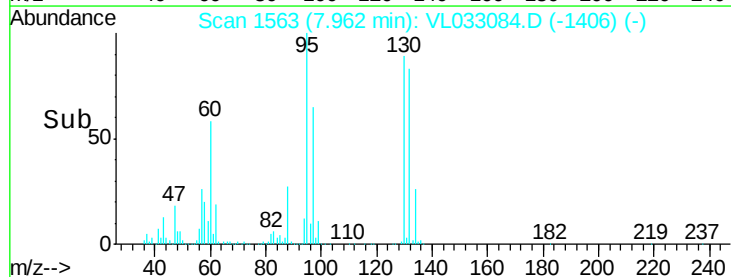
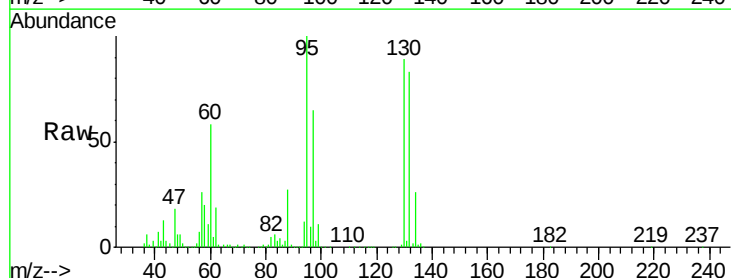
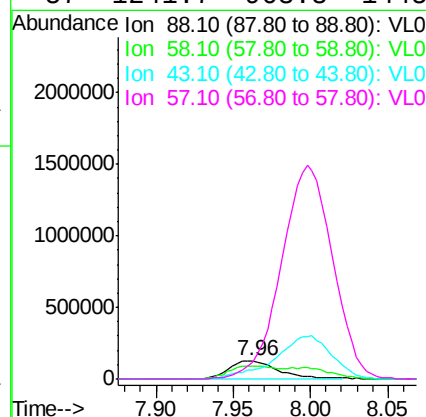
Manual Integrations
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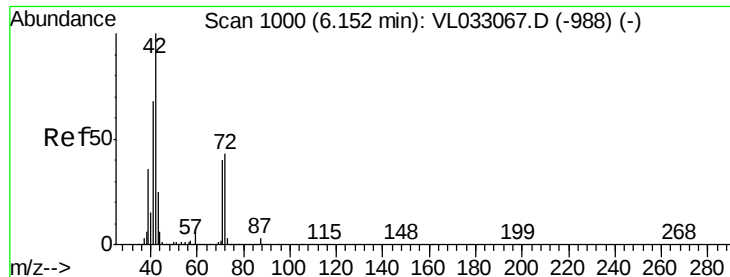
MMDadoda
 1/8/2019 12:01:37 AM



#40
 1,4-Dioxane
 Concen: 8.975 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. 0.00 min
 Lab File: VL033084.D
 Acq: 5 Jan 2019 1:40

Tgt Ion	Ratio	Lower	Upper
88	100		
58	130.2	101.9	152.9
43	274.9	212.6	319.0
57	1241.7	963.8	1445.6





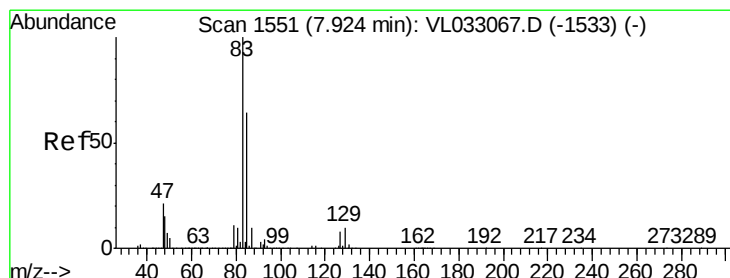
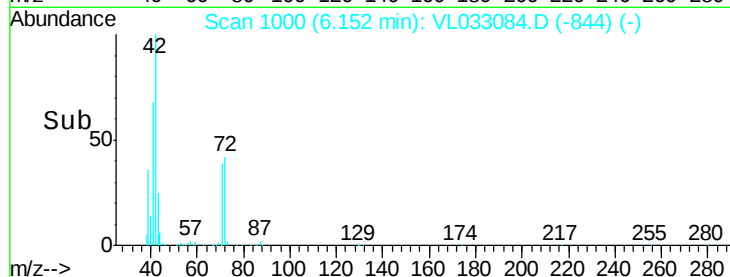
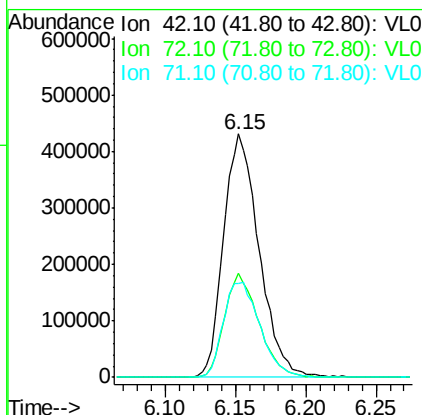
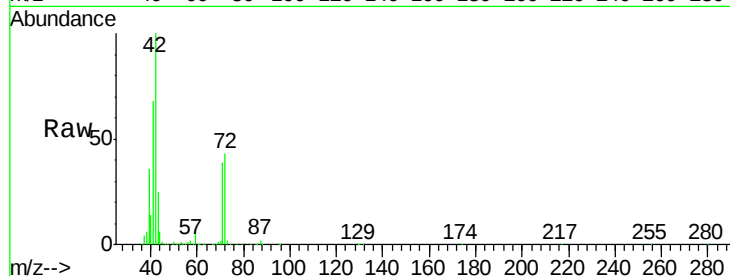
#41
Tetrahydrofuran
Concen: 9.666 ppbv
RT: 6.15 min Scan# 1000
Delta R.T. 0.00 min
Lab File: VL033084.D
Acq: 5 Jan 2019 1:40

Instrument :
MSVOA_L
ClientSampleId :
VL0104ABS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.4	32.9	49.3
71	40.4	31.8	47.6

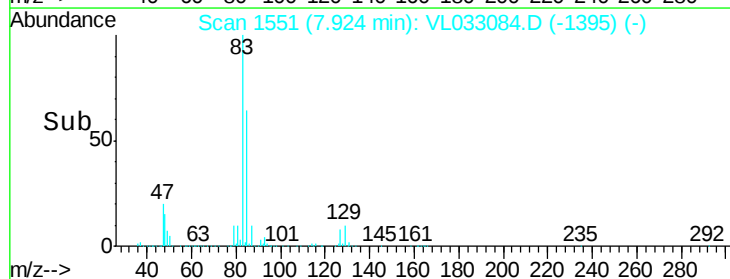
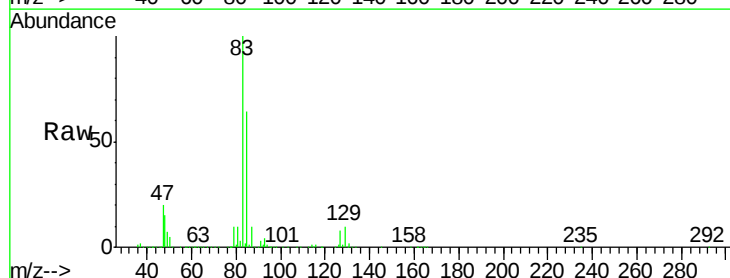
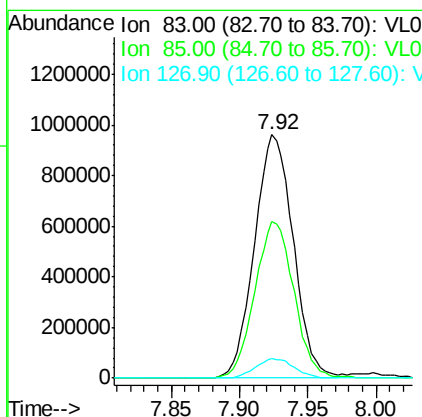
Manual Integrations
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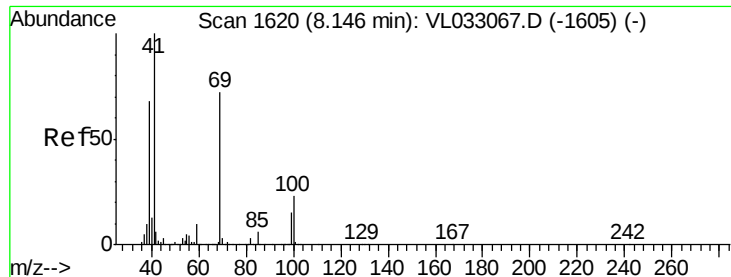
MMDadoda
1/8/2019 12:01:37 AM



#42
Bromodichloromethane
Concen: 9.097 ppbv
RT: 7.92 min Scan# 1551
Delta R.T. 0.00 min
Lab File: VL033084.D
Acq: 5 Jan 2019 1:40

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.0	76.4
127	7.9	6.5	9.7





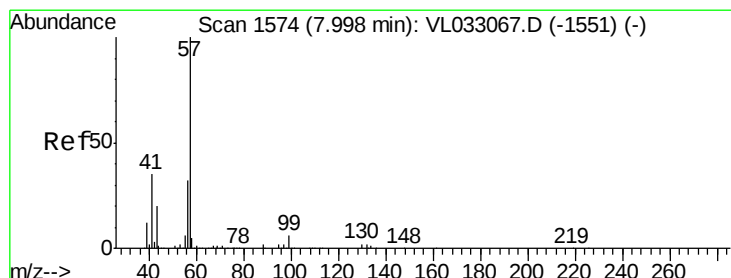
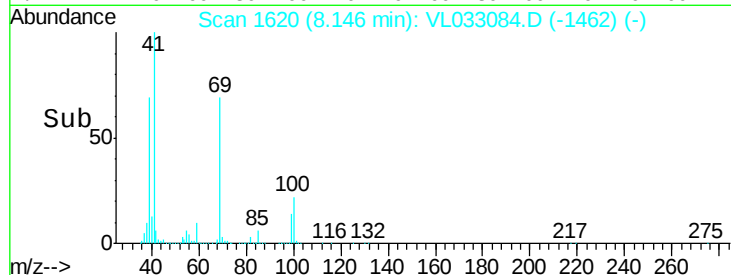
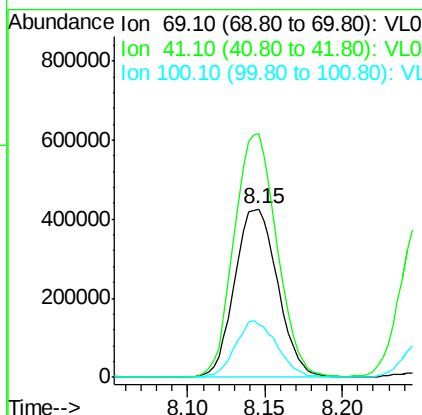
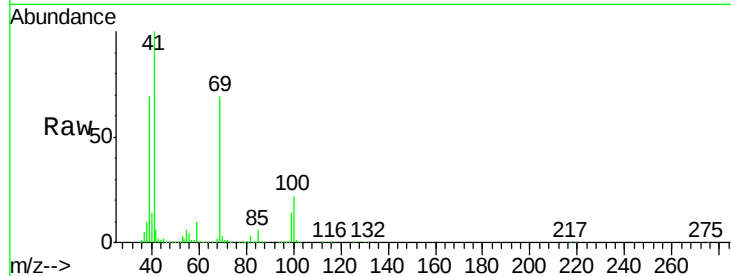
#43
Methvl Methacrvlate
Concen: 10.092 ppbv
RT: 8.15 min Scan# 1620
Delta R.T. 0.01 min
Lab File: VL033084.D
Acq: 5 Jan 2019 1:40

Instrument :
MSVOA_L
ClientSampleId :
VL0104ABS01

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	144.5	114.0	171.0	
100	32.4	26.3	39.5	

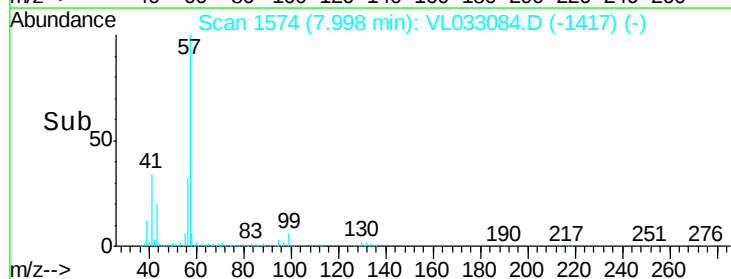
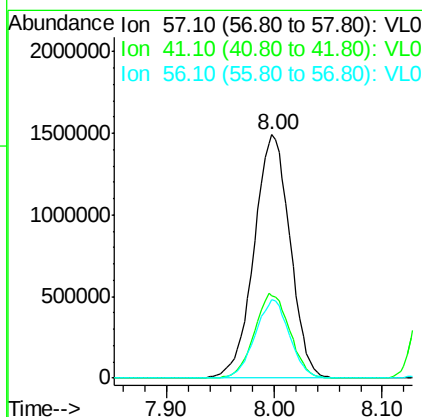
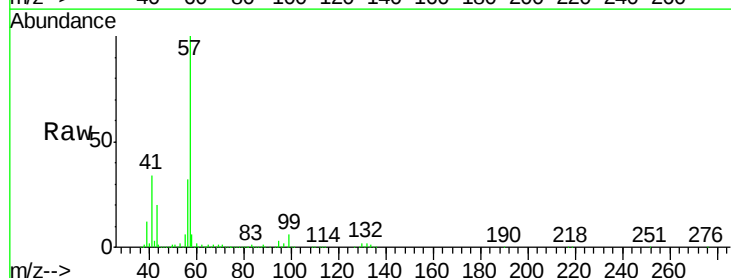
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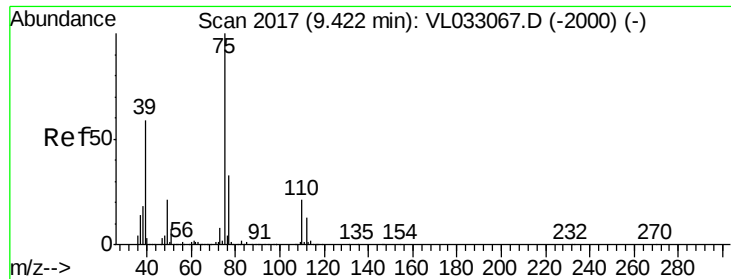
MMDadoda
1/8/2019 12:01:37 AM



#44
2,2,4-Trimethylpentane
Concen: 9.373 ppbv
RT: 8.00 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VL033084.D
Acq: 5 Jan 2019 1:40

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	34.0	26.2	39.2	
56	30.9	24.9	37.3	





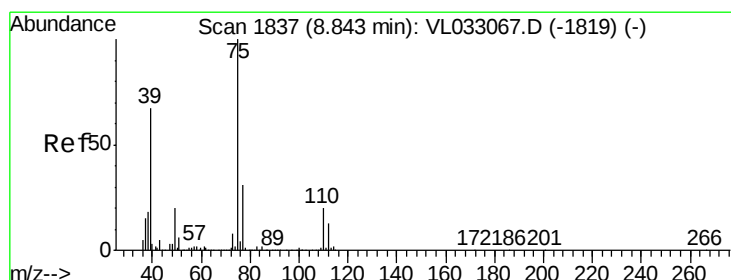
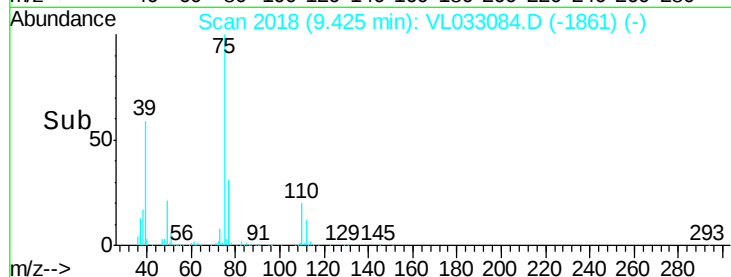
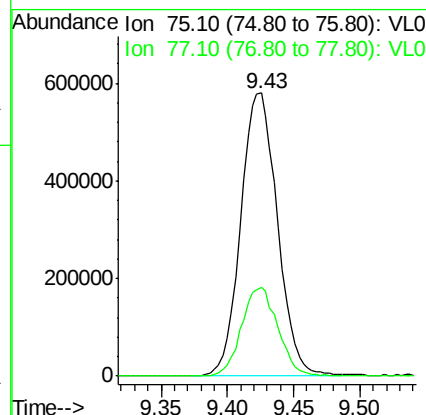
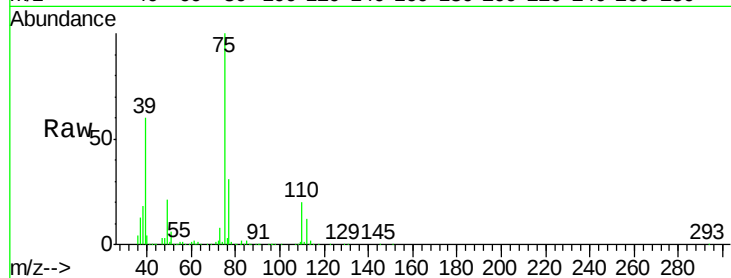
#45
t-1,3-Dichloropropene
Concen: 10.961 ppbv
RT: 9.43 min Scan# 2018
Delta R.T. 0.00 min
Lab File: VL033084.D
Acq: 5 Jan 2019 1:40

Instrument :
MSVOA_L
ClientSampleId :
VL0104ABS01

Tot Ion: 75 Resp: 1111521
Ion Ratio Lower Upper
75 100
77 31.2 24.8 37.2

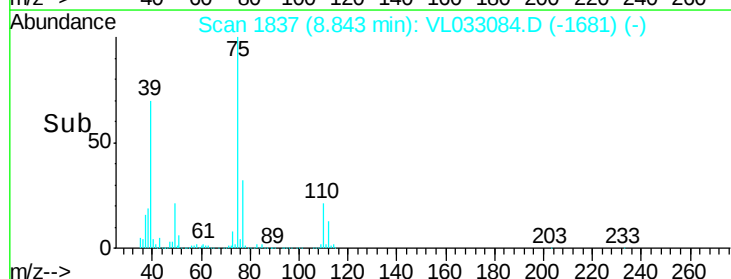
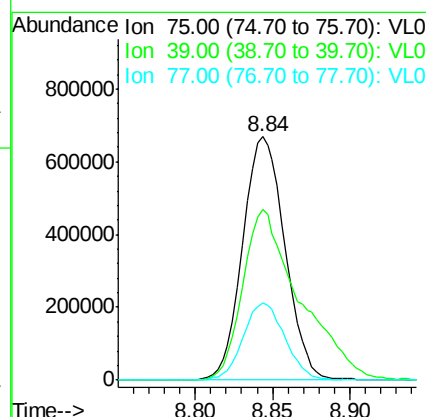
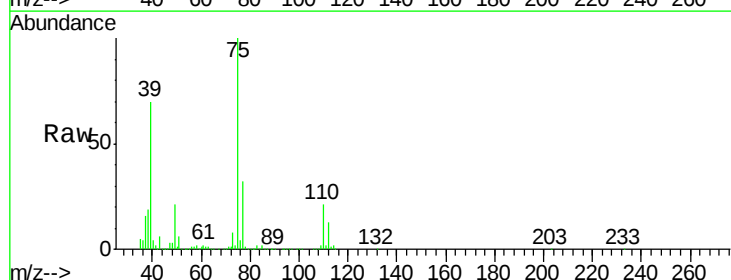
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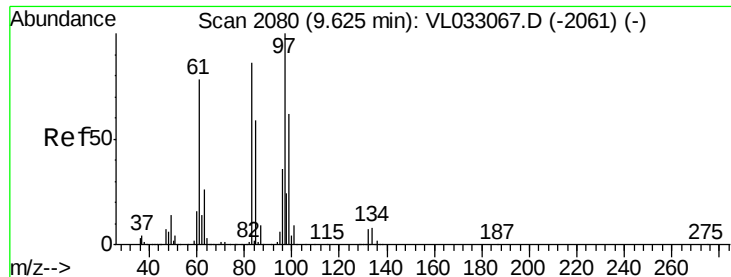
MMDadoda
1/8/2019 12:01:37 AM



#46
cis-1,3-Dichloropropene
Concen: 10.966 ppbv
RT: 8.84 min Scan# 1837
Delta R.T. 0.00 min
Lab File: VL033084.D
Acq: 5 Jan 2019 1:40

Tgt Ion: 75 Resp: 1269297
Ion Ratio Lower Upper
75 100
39 69.9 51.3 76.9
77 31.6 25.5 38.3





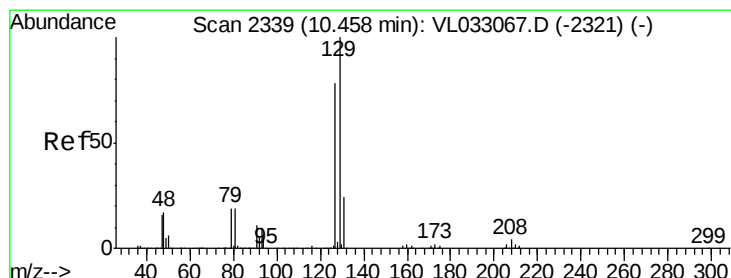
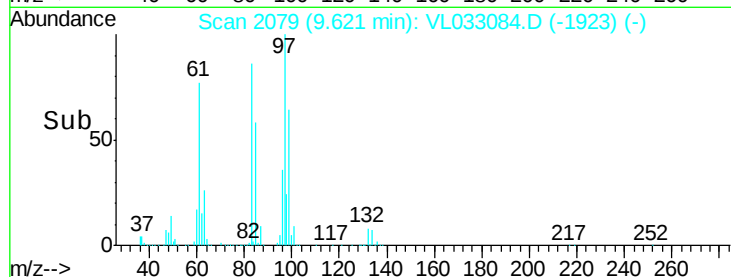
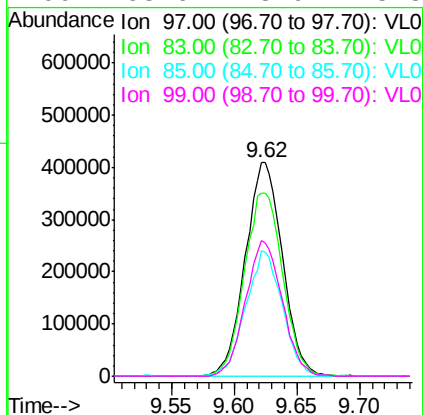
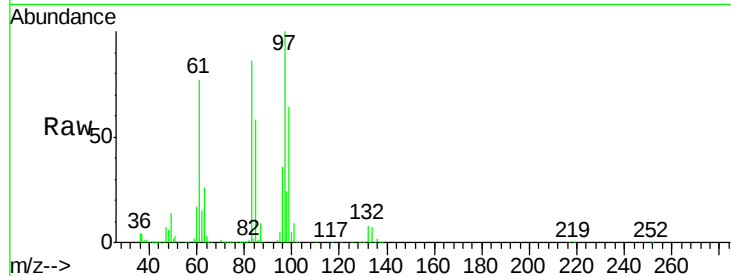
#47
 1,1,2-Trichloroethane
 Concen: 8.876 ppbv
 RT: 9.62 min Scan# 2079
 Delta R.T. 0.00 min
 Lab File: VL033084.D
 Acq: 5 Jan 2019 1:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0104ABS01

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	85.4	69.4	104.2	
85	58.4	44.2	66.2	
99	63.6	48.9	73.3	

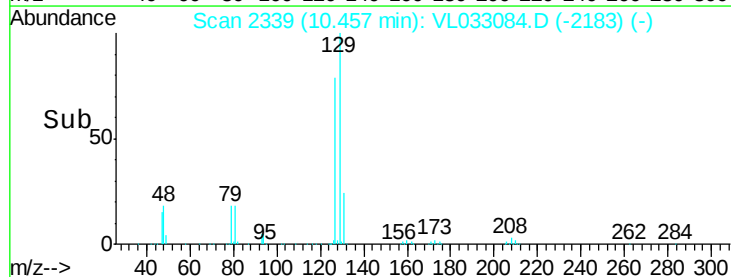
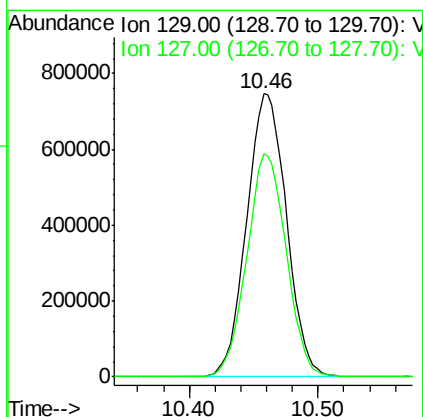
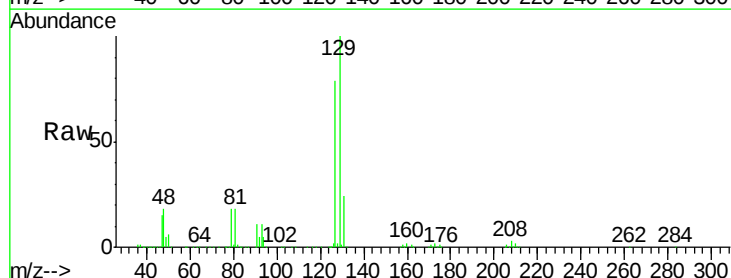
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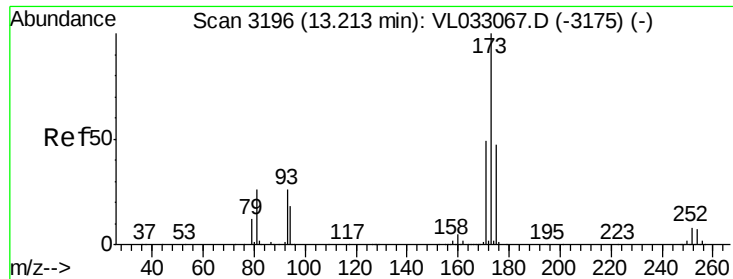
MMDadoda
 1/8/2019 12:01:37 AM



#48
 Dibromochloromethane
 Concen: 9.532 ppbv
 RT: 10.46 min Scan# 2339
 Delta R.T. 0.00 min
 Lab File: VL033084.D
 Acq: 5 Jan 2019 1:40

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.2	39.1	117.3	





#49

Bromoform

Concen: 9.052 ppbv

RT: 13.21 min Scan# 3195

Delta R.T. 0.00 min

Lab File: VL033084.D

Acq: 5 Jan 2019 1:40

Instrument :

MSVOA_L

ClientSampleId :

VL0104ABS01

Tot Ion:173 Resp: 1331477

Ion	Ratio	Lower	Upper
173	100		
175	48.8	39.4	59.2
171	52.4	42.1	63.1

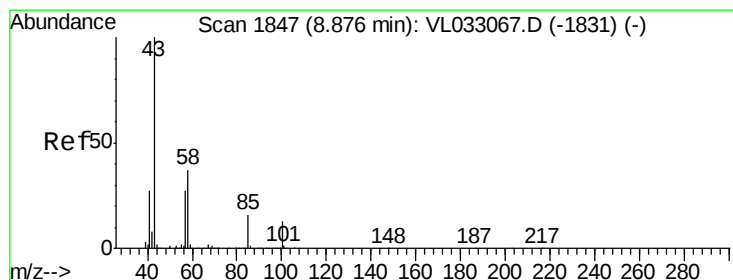
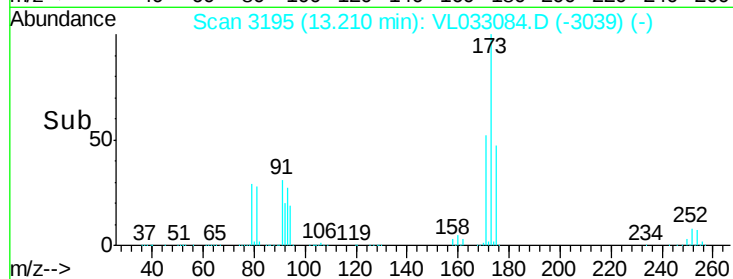
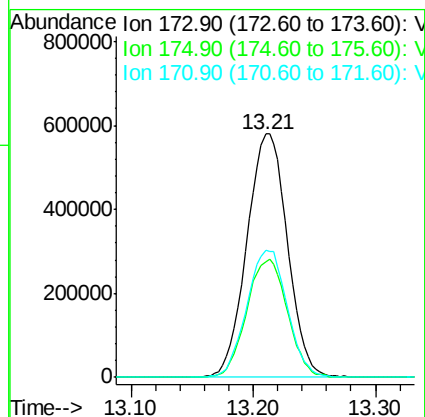
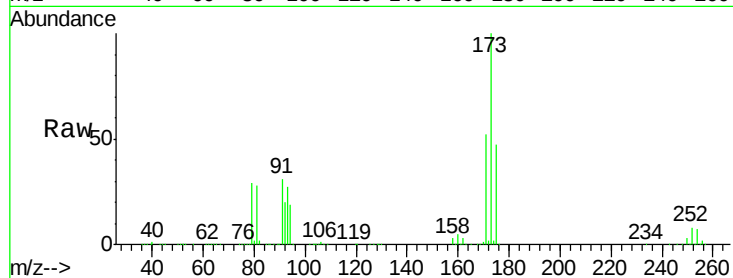
173 100

175 48.8 39.4 59.2

171 52.4 42.1 63.1

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#50

4-Methyl-2-Pentanone

Concen: 10.051 ppbv

RT: 8.88 min Scan# 1847

Delta R.T. 0.00 min

Lab File: VL033084.D

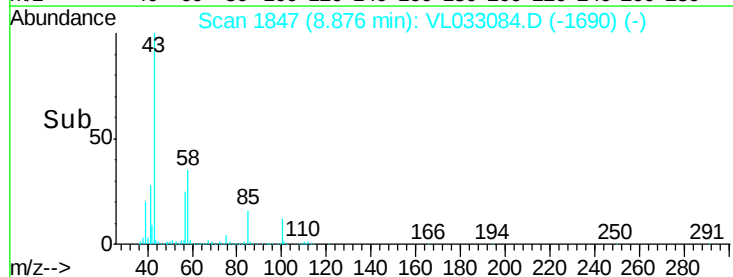
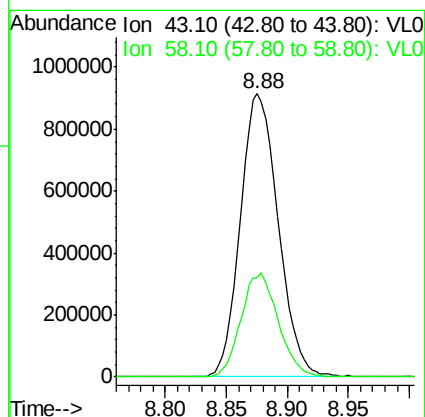
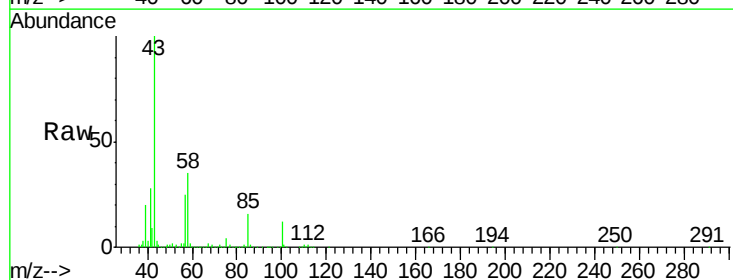
Acq: 5 Jan 2019 1:40

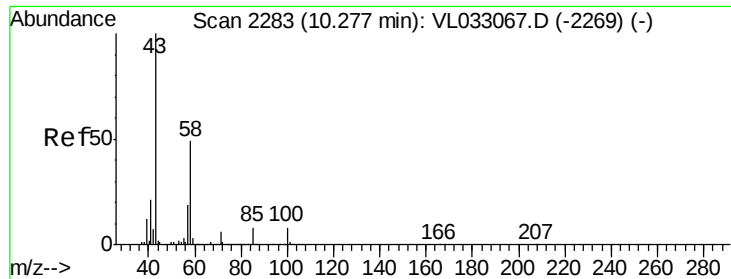
Tgt Ion: 43 Resp: 1961304

Ion	Ratio	Lower	Upper
43	100		
58	36.1	28.9	43.3

43 100

58 36.1 28.9 43.3





#51

2-Hexanone

Concen: 10.492 ppbv

RT: 10.28 min Scan# 2283

Delta R.T. 0.00 min

Lab File: VL033084.D

Acq: 5 Jan 2019 1:40

Instrument :

MSVOA_L

ClientSampleId :

VL0104ABS01

Tot Ion: 43 Resp: 1481462

Ion Ratio Lower Upper

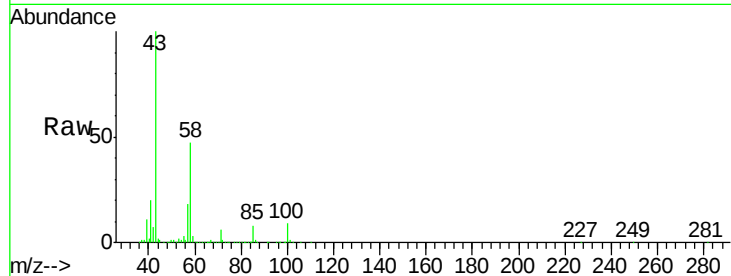
43 100

58 48.1 39.0 58.6

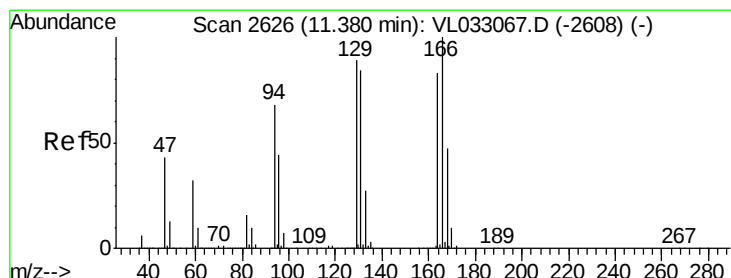
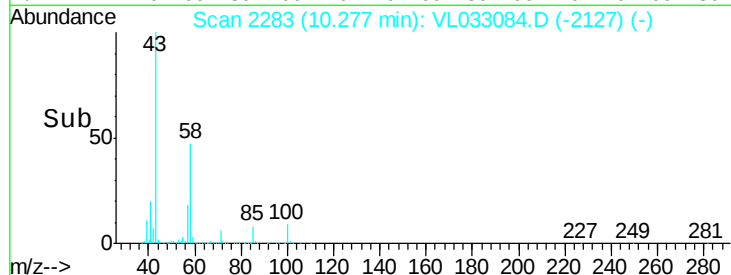
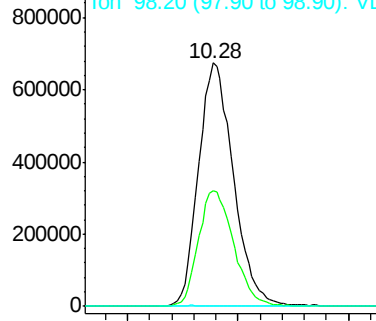
98 0.3 0.4 0.6#

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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: 9.462 ppbv

RT: 11.38 min Scan# 2626

Delta R.T. 0.00 min

Lab File: VL033084.D

Acq: 5 Jan 2019 1:40

Tgt Ion: 164 Resp: 726177

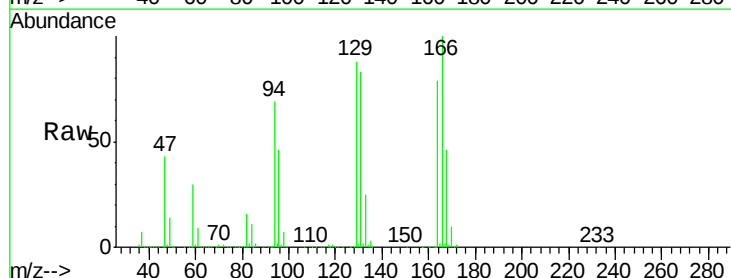
Ion Ratio Lower Upper

164 100

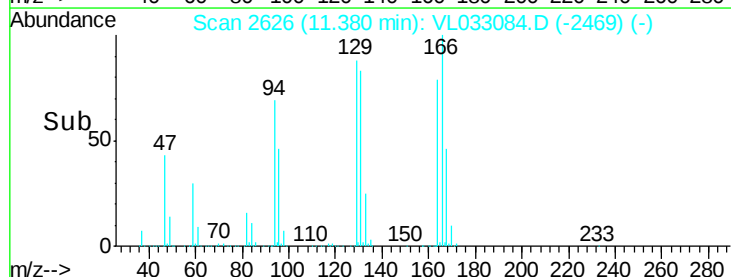
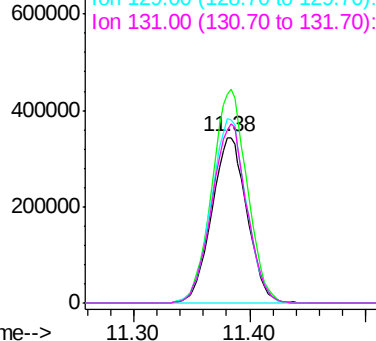
166 126.5 100.8 151.2

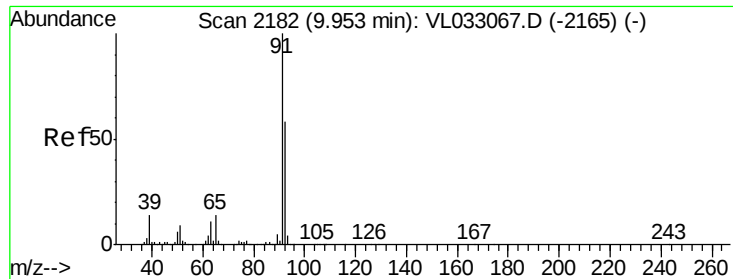
129 111.9 84.6 126.8

131 104.9 80.7 121.1



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





#53

Toluene

Concen: 10.281 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. 0.00 min

Lab File: VL033084.D

Acq: 5 Jan 2019 1:40

Instrument :

MSVOA_L

ClientSampleId :

VL0104ABS01

Tot Ion: 91 Resp: 2392039

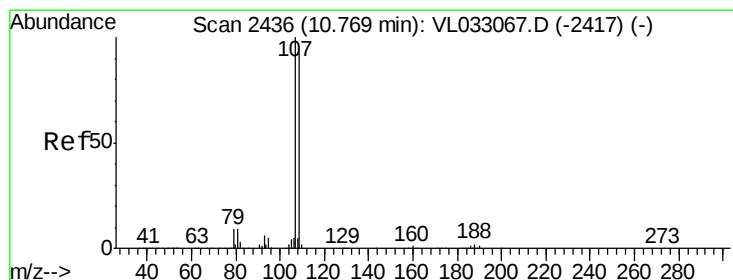
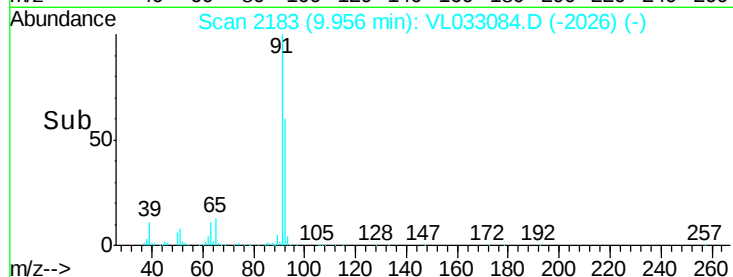
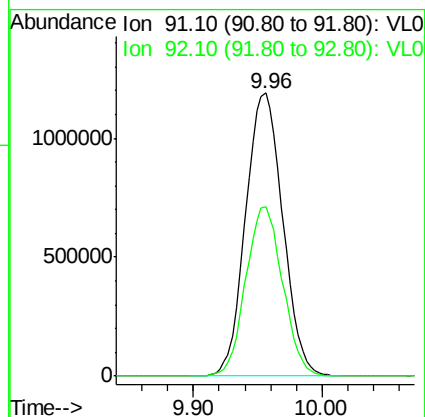
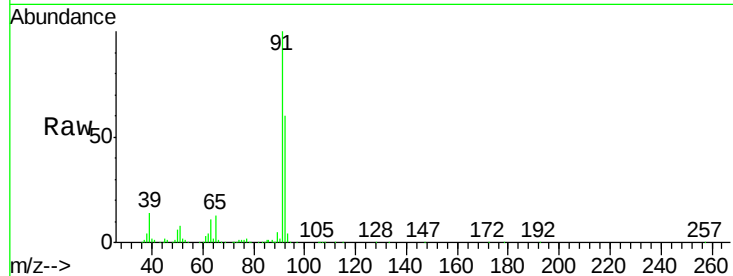
Ion Ratio Lower Upper

91 100

92 59.3 47.7 71.5

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#54

1,2-Dibromoethane

Concen: 9.601 ppbv

RT: 10.77 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VL033084.D

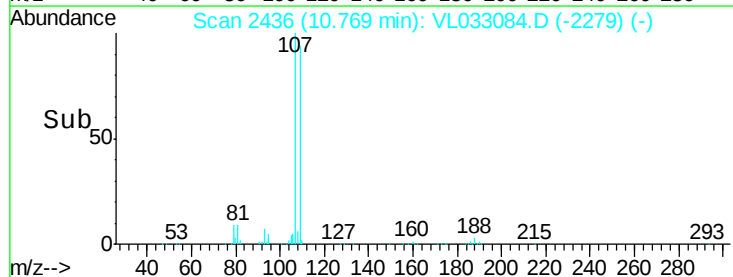
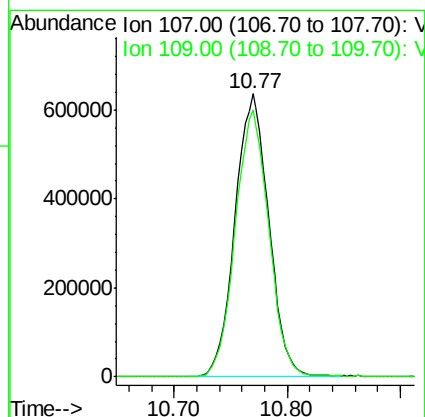
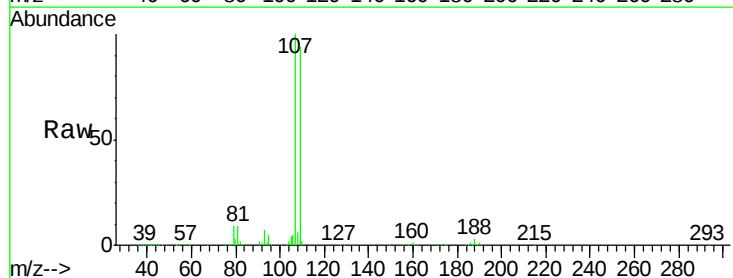
Acq: 5 Jan 2019 1:40

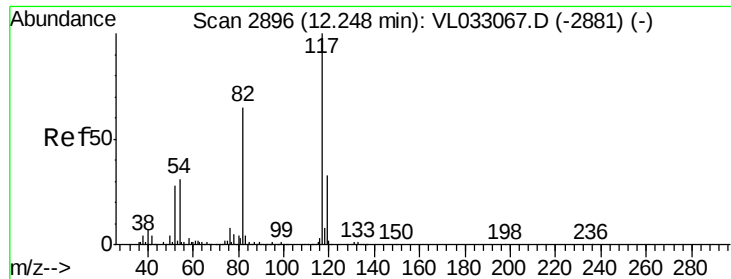
Tgt Ion: 107 Resp: 1318218

Ion Ratio Lower Upper

107 100

109 94.3 74.9 112.3





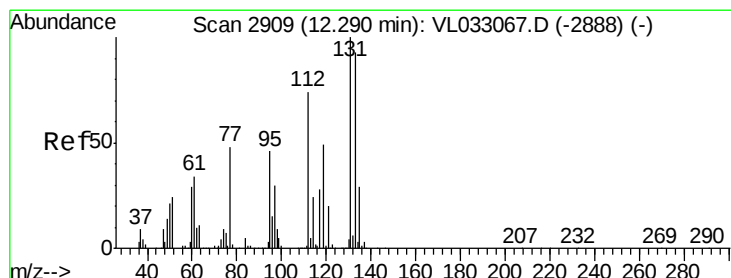
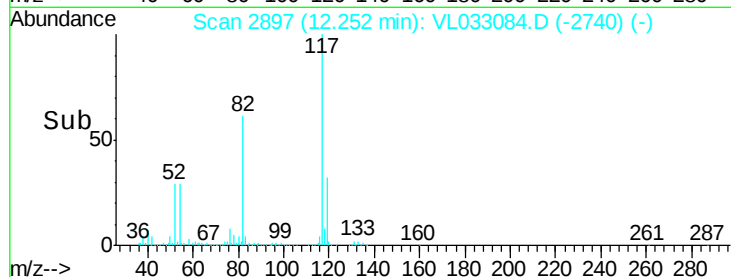
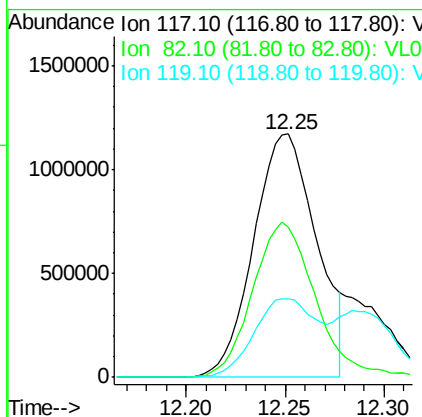
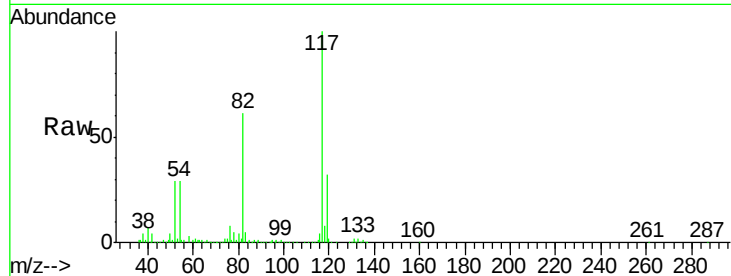
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.25 min Scan# 2897
Delta R.T. 0.00 min
Lab File: VL033084.D
Acq: 5 Jan 2019 1:40

Instrument :
MSVOA_L
ClientSampleId :
VL0104ABS01

Tot Ion:117 Resp: 2574094
Ion Ratio Lower Upper
117 100
82 63.8 48.9 73.3
119 34.5 24.6 37.0

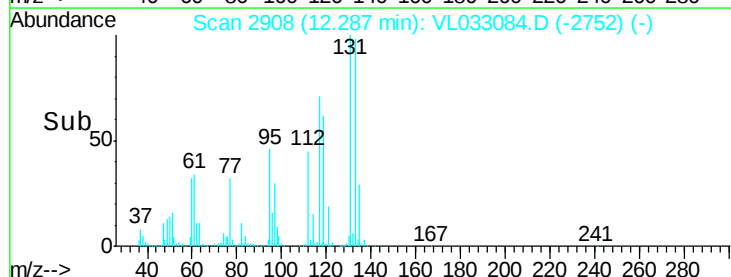
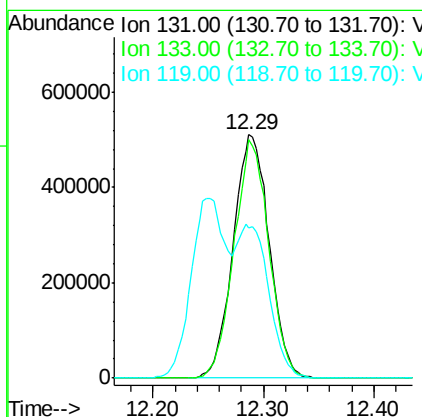
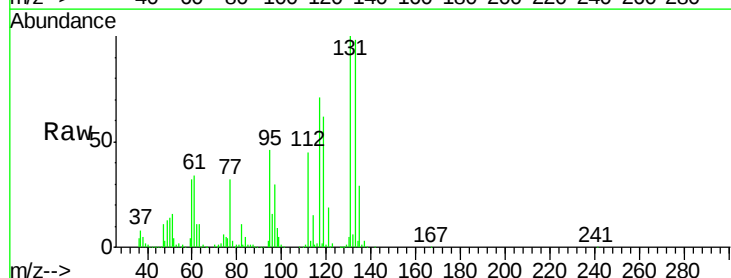
Manual Integrations
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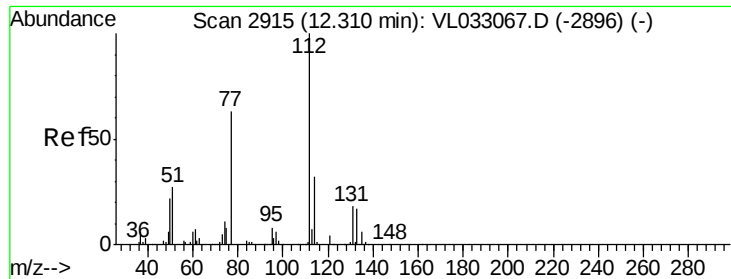
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.677 ppbv
RT: 12.29 min Scan# 2908
Delta R.T. 0.00 min
Lab File: VL033084.D
Acq: 5 Jan 2019 1:40

Tgt Ion:131 Resp: 1154045
Ion Ratio Lower Upper
131 100
133 94.8 76.0 114.0
119 57.3 44.2 66.2





#57

Chlorobenzene

Concen: 8.625 ppbv

RT: 12.31 min Scan# 2915

Delta R.T. 0.00 min

Lab File: VL033084.D

Acq: 5 Jan 2019 1:40

Instrument :

MSVOA_L

ClientSampleId :

VL0104ABS01

Tot Ion:112 Resp: 1853040

Ion Ratio Lower Upper

112 100

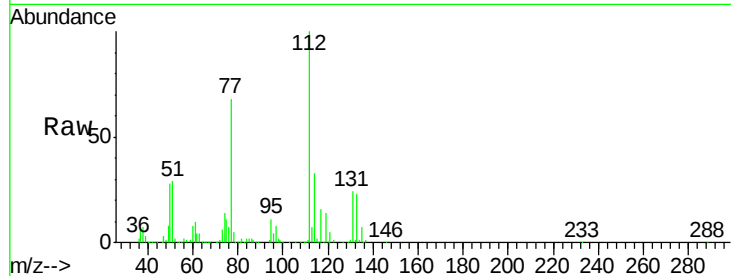
77 67.7 53.4 80.0

114 32.6 30.0 36.6

Manual Integrations
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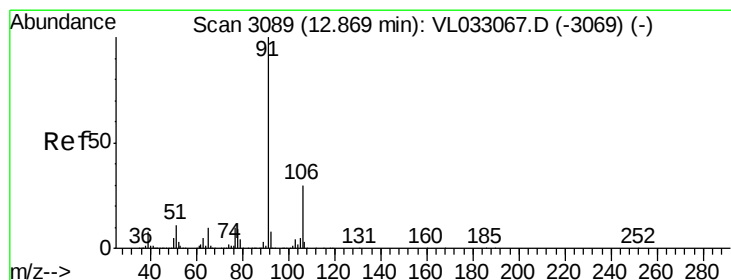
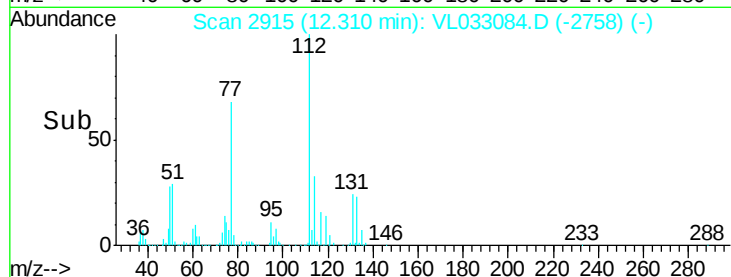
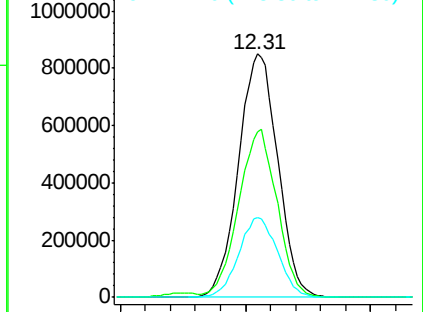
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.072 ppbv

RT: 12.88 min Scan# 3091

Delta R.T. 0.00 min

Lab File: VL033084.D

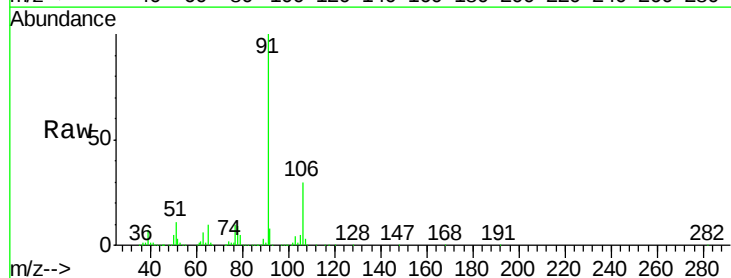
Acq: 5 Jan 2019 1:40

Tgt Ion: 91 Resp: 3273307

Ion Ratio Lower Upper

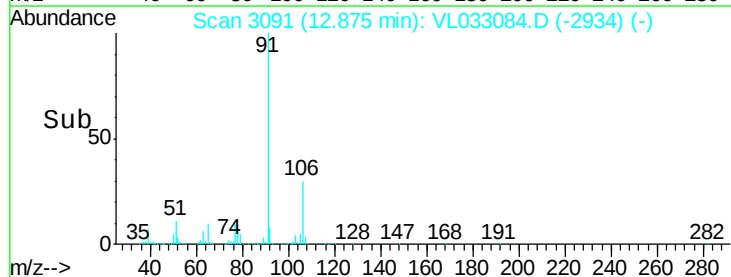
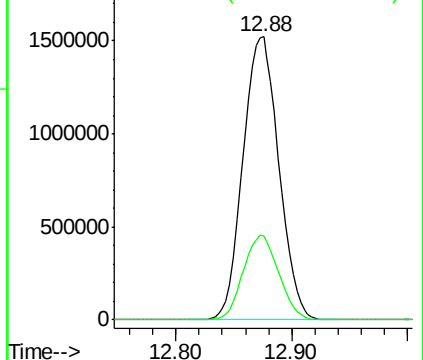
91 100

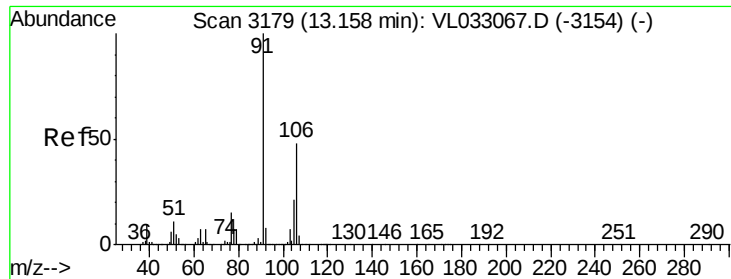
106 29.6 24.3 36.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





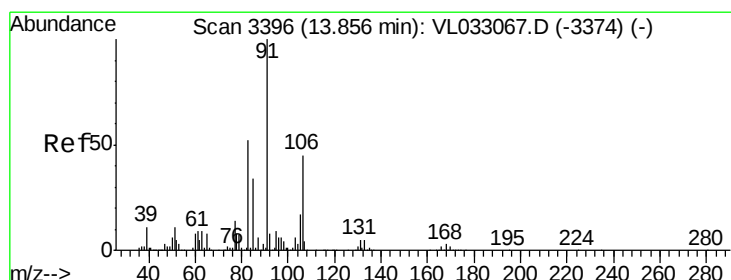
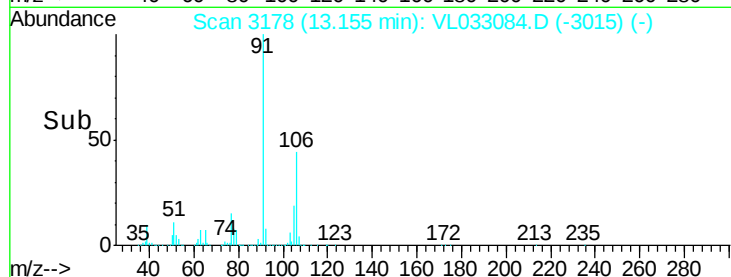
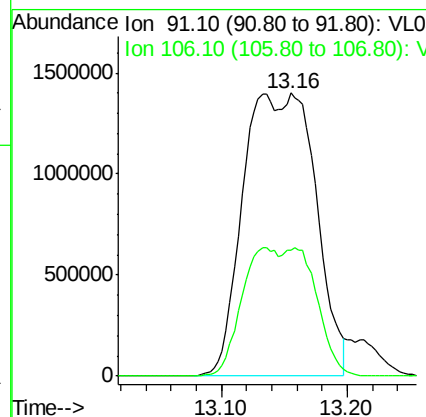
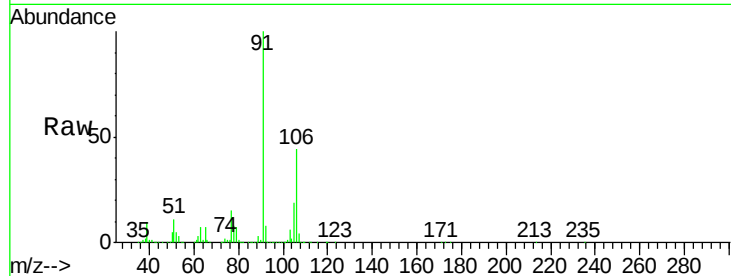
#59
m/p-Xylene
Concen: 18.591 ppbv m
RT: 13.16 min Scan# 3178
Delta R.T. 0.02 min
Lab File: VL033084.D
Acq: 5 Jan 2019 1:40

Instrument :
MSVOA_L
ClientSampleId :
VL0104ABS01

Tot Ion: 91 Resp: 5589289
Ion Ratio Lower Upper
91 100
106 45.0 0.0 0.0#

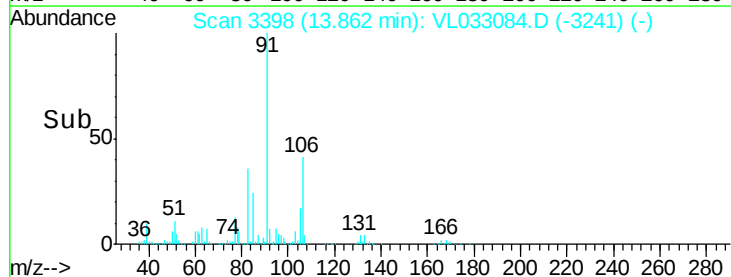
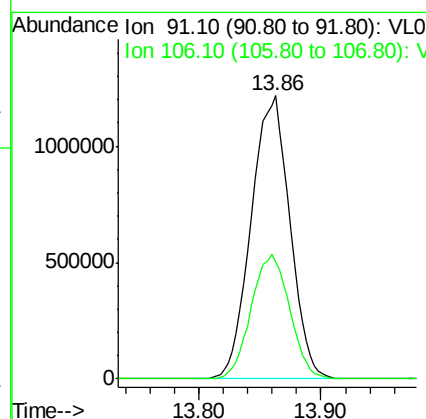
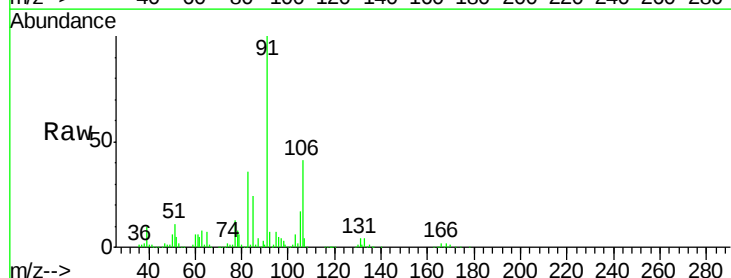
Manual Integrations
APPROVED

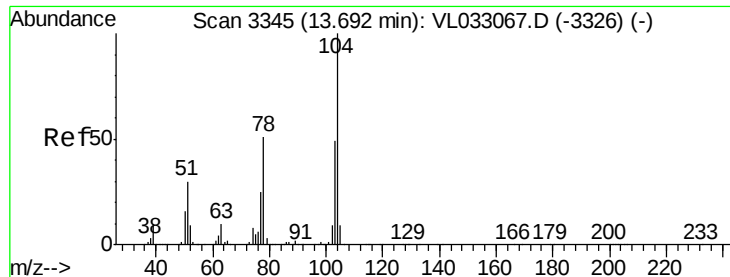
MMDadoda
1/8/2019 12:01:37 AM



#60
o-Xylene
Concen: 9.061 ppbv
RT: 13.86 min Scan# 3398
Delta R.T. 0.00 min
Lab File: VL033084.D
Acq: 5 Jan 2019 1:40

Tgt Ion: 91 Resp: 2667015
Ion Ratio Lower Upper
91 100
106 43.7 22.1 66.5





#61

Stvrene

Concen: 10.409 ppbv

RT: 13.69 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VL033084.D

Acq: 5 Jan 2019 1:40

Instrument :

MSVOA_L

ClientSampleId :

VL0104ABS01

Tot Ion:104 Resp: 1954890

Ion Ratio Lower Upper

104 100

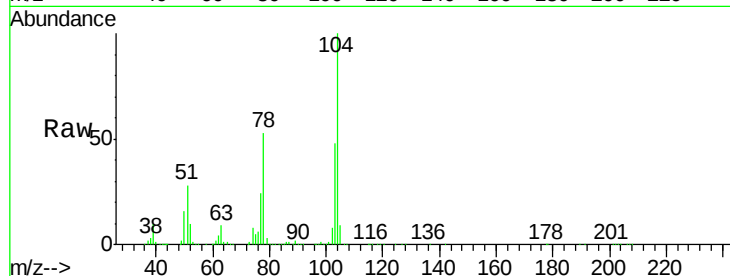
78 52.6 41.6 62.4

103 47.7 38.1 57.1

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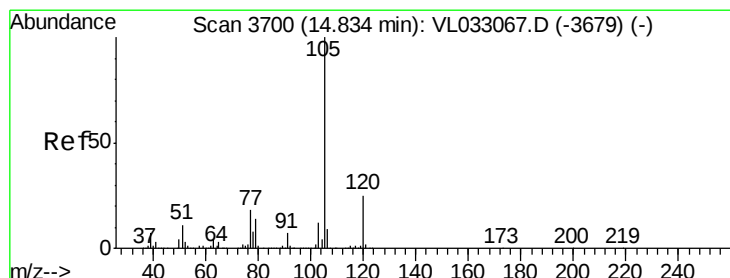
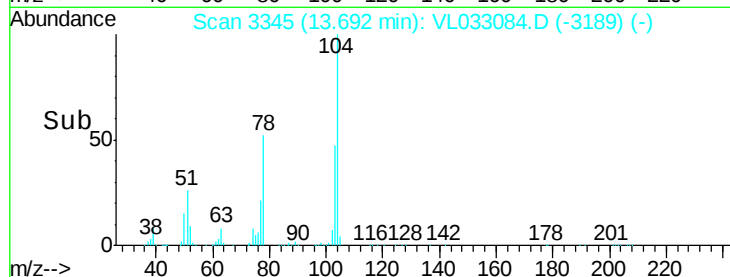
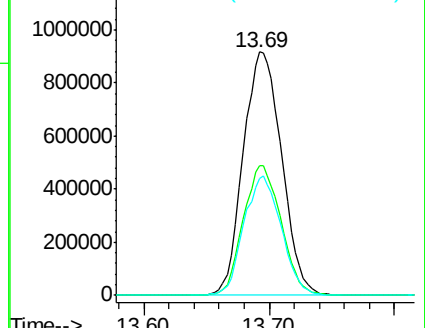
1/8/2019 12:01:37 AM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 8.916 ppbv

RT: 14.84 min Scan# 3701

Delta R.T. 0.00 min

Lab File: VL033084.D

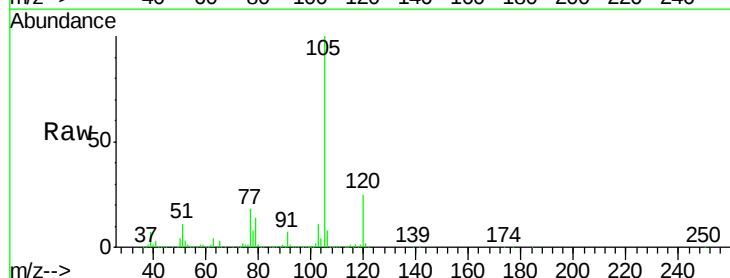
Acq: 5 Jan 2019 1:40

Tgt Ion:105 Resp: 3734690

Ion Ratio Lower Upper

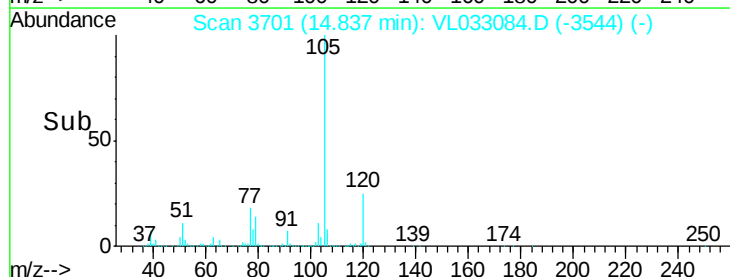
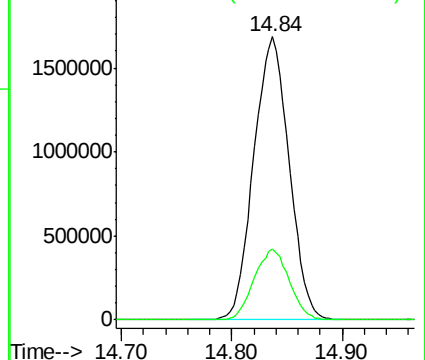
105 100

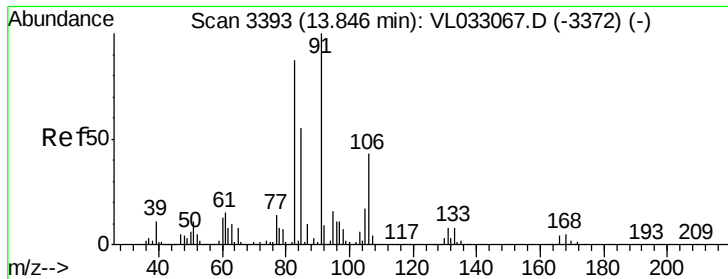
120 24.9 20.4 30.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





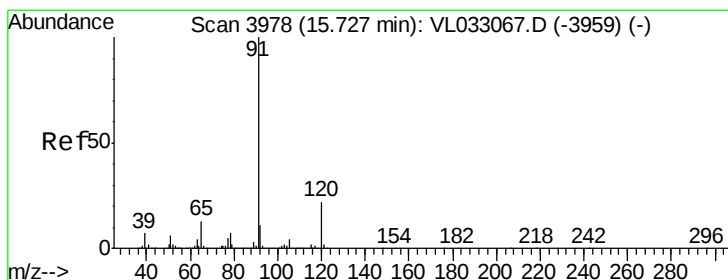
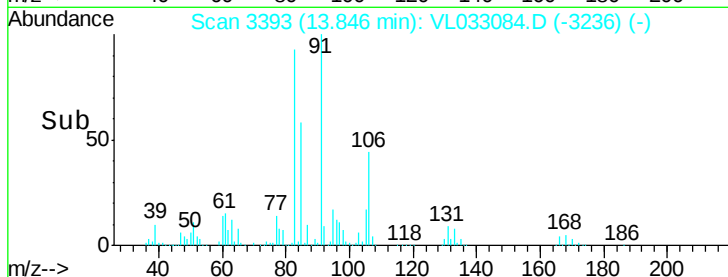
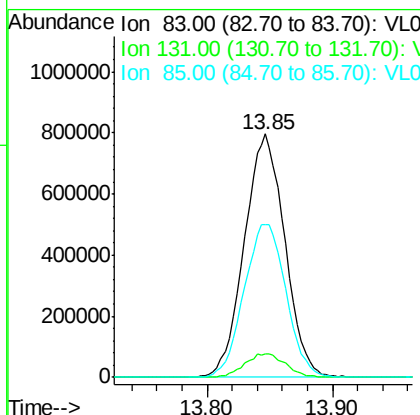
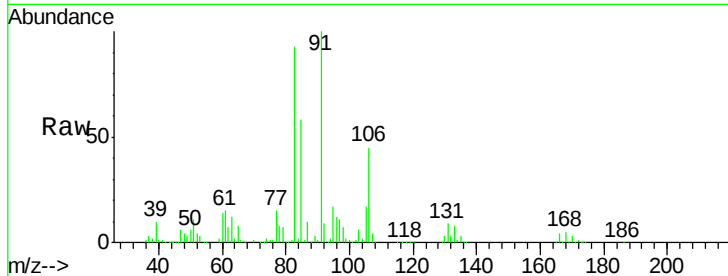
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.158 ppbv
 RT: 13.85 min Scan# 3393
 Delta R.T. 0.00 min
 Lab File: VL033084.D
 Acq: 5 Jan 2019 1:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0104ABS01

Tot Ion	83	Resp	1783615
Ion Ratio	100	Lower	Upper
83	100		
131	9.8	4.8	14.4
85	65.6	32.6	97.8

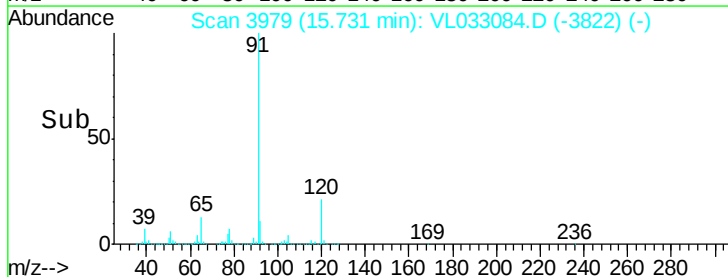
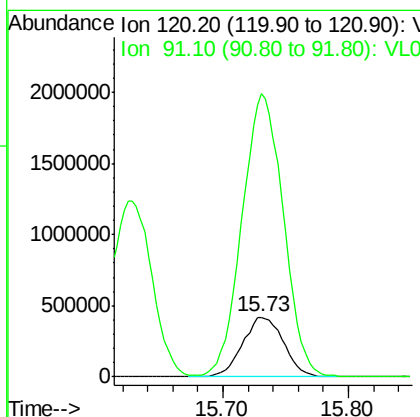
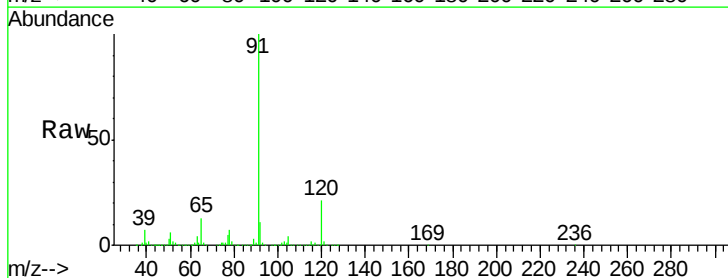
Manual Integrations
 APPROVED

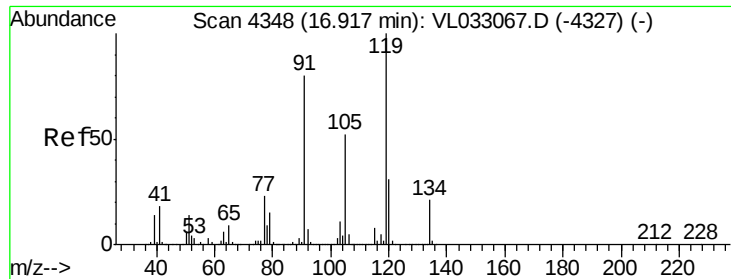
MMDadoda
 1/8/2019 12:01:37 AM



#64
 n-propylbenzene
 Concen: 9.017 ppbv
 RT: 15.73 min Scan# 3979
 Delta R.T. 0.00 min
 Lab File: VL033084.D
 Acq: 5 Jan 2019 1:40

Tgt Ion	120	Resp	959526
Ion Ratio	100	Lower	Upper
120	100		
91	476.3	378.7	568.1





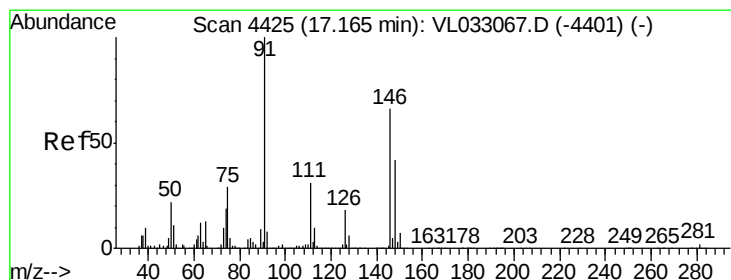
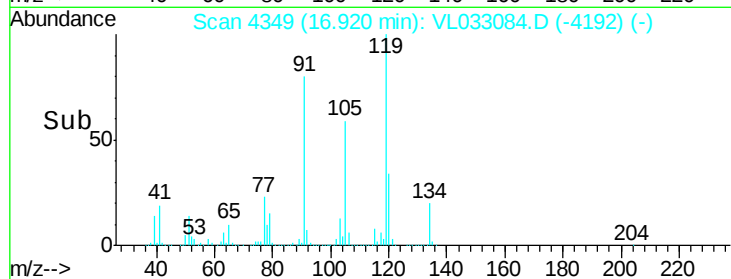
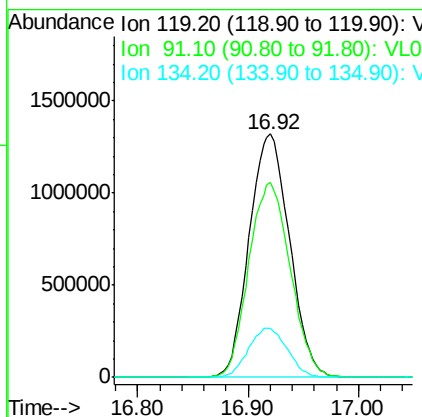
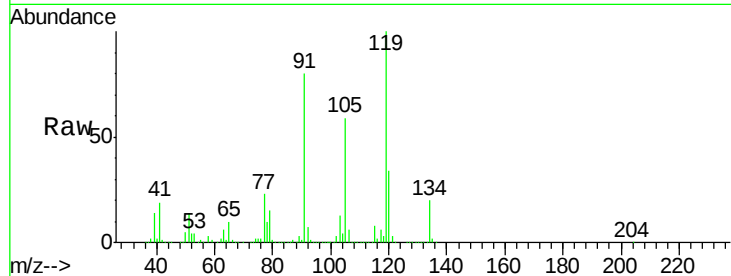
#65
tert-Butylbenzene
Concen: 9.008 ppbv
RT: 16.92 min Scan# 4349
Delta R.T. 0.00 min
Lab File: VL033084.D
Acq: 5 Jan 2019 1:40

Instrument :
MSVOA_L
ClientSampleId :
VL0104ABS01

Tot Ion: 119 Resp: 3342040
Ion Ratio Lower Upper
119 100
91 82.5 64.6 97.0
134 19.6 15.8 23.8

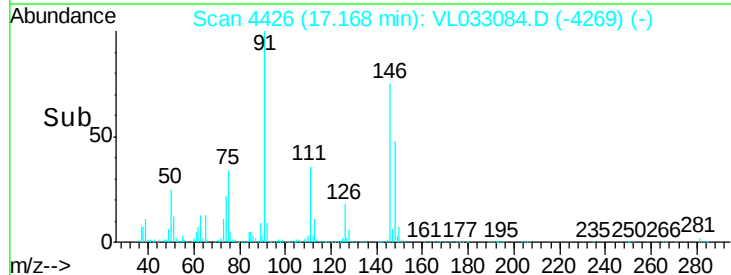
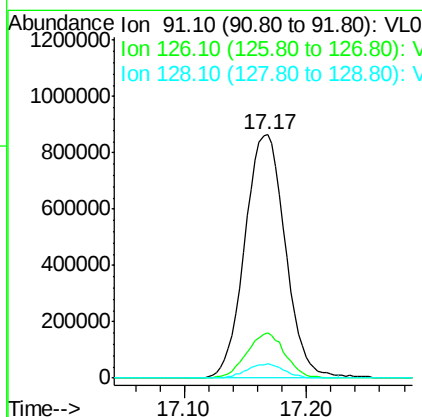
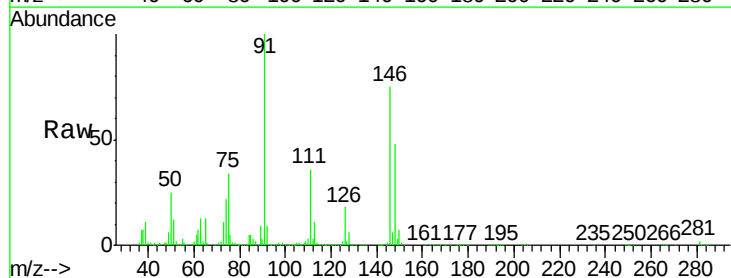
Manual Integrations
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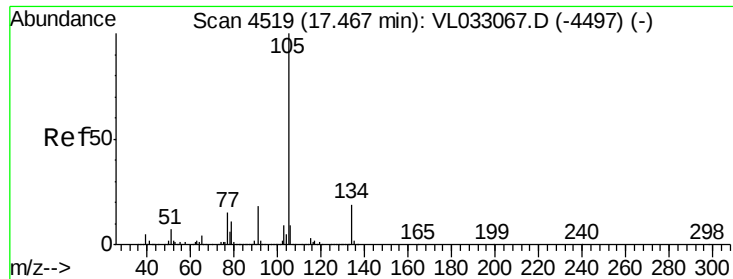
MMDadoda
1/8/2019 12:01:37 AM



#66
Benzyl Chloride
Concen: 9.335 ppbv
RT: 17.17 min Scan# 4426
Delta R.T. 0.00 min
Lab File: VL033084.D
Acq: 5 Jan 2019 1:40

Tgt Ion: 91 Resp: 1974047
Ion Ratio Lower Upper
91 100
126 17.8 14.4 21.6
128 5.6 4.5 6.7





#67

sec-Butylbenzene

Concen: 8.910 ppbv

RT: 17.47 min Scan# 4520

Delta R.T. 0.00 min

Lab File: VL033084.D

Acq: 5 Jan 2019 1:40

Instrument :

MSVOA_L

ClientSampleId :

VL0104ABS01

Tot Ion:105 Resp: 4730934

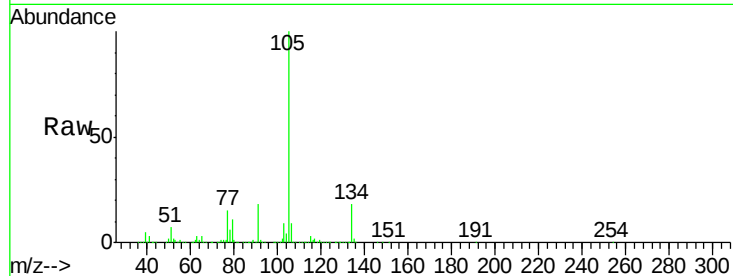
Ion Ratio Lower Upper

105 100

134 18.2 14.6 21.8

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MMDadoda
1/8/2019 12:01:37 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.47

2000000

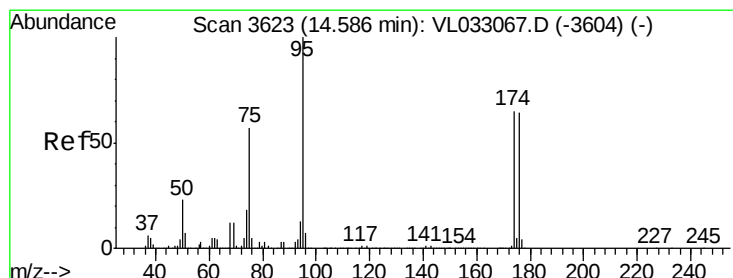
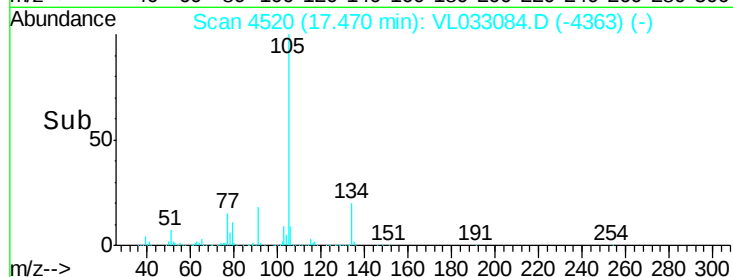
1500000

1000000

500000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.216 ppbv

RT: 14.59 min Scan# 3623

Delta R.T. 0.00 min

Lab File: VL033084.D

Acq: 5 Jan 2019 1:40

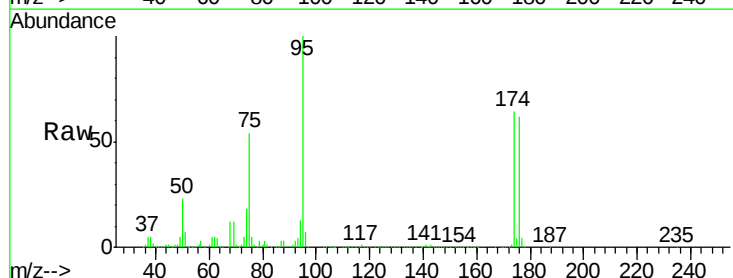
Tgt Ion: 95 Resp: 2015719

Ion Ratio Lower Upper

95 100

174 64.4 51.9 77.9

175 4.7 3.9 5.9



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

14.59

1200000

1000000

800000

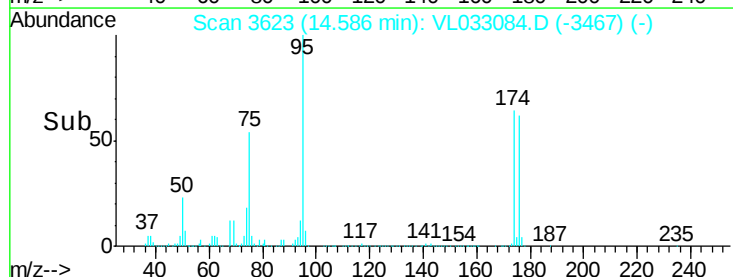
600000

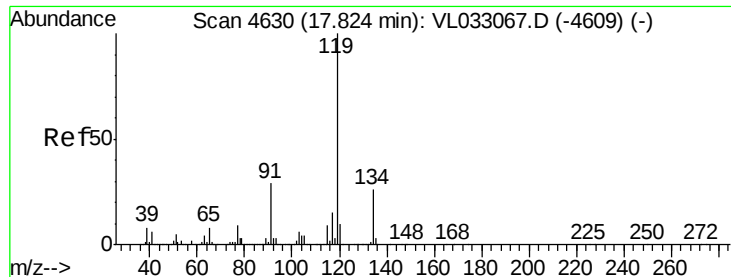
400000

200000

0

Time-->





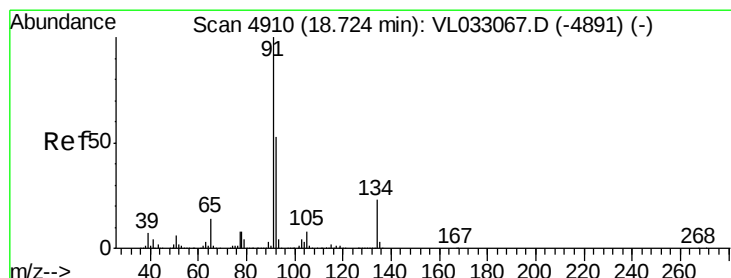
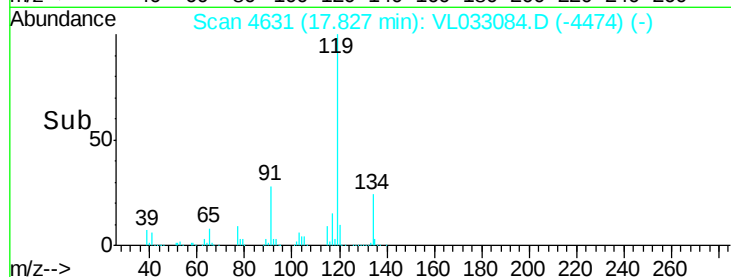
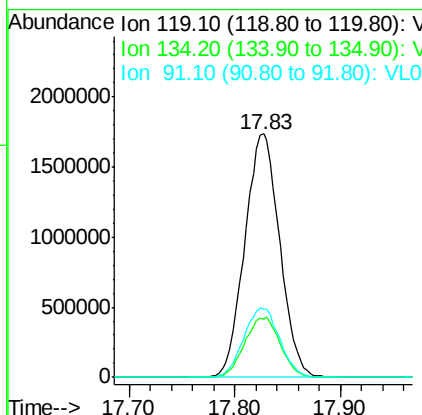
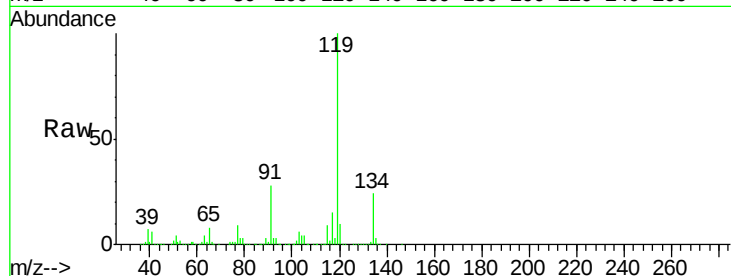
#69
 p-Isopropyltoluene
 Concen: 9.291 ppbv
 RT: 17.83 min Scan# 4631
 Delta R.T. 0.00 min
 Lab File: VL033084.D
 Acq: 5 Jan 2019 1:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0104ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.1	30.1
91	29.4	23.0	34.4

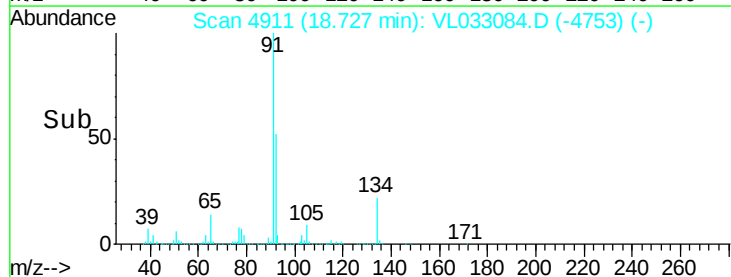
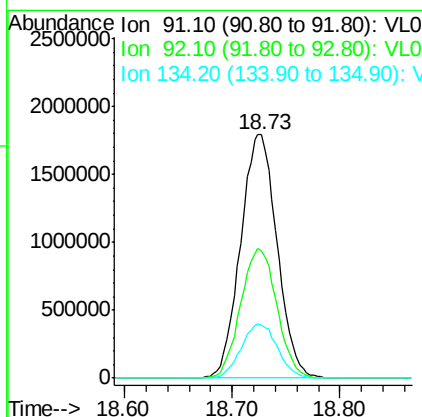
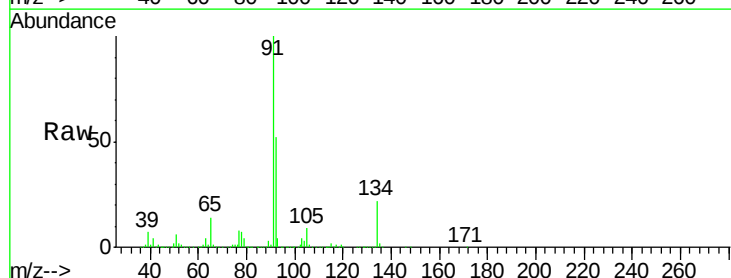
Manual Integrations
 APPROVED

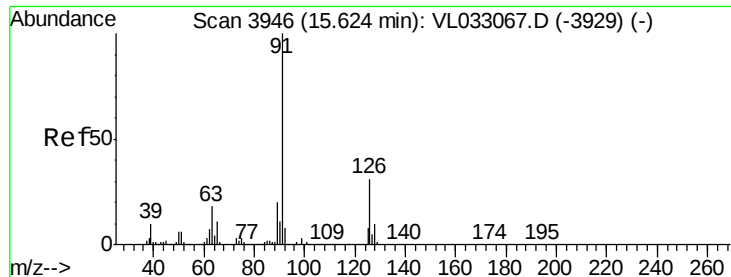
MMDadoda
 1/8/2019 12:01:37 AM



#70
 n-Butylbenzene
 Concen: 9.721 ppbv
 RT: 18.73 min Scan# 4911
 Delta R.T. 0.01 min
 Lab File: VL033084.D
 Acq: 5 Jan 2019 1:40

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.0	42.4	63.6
134	22.2	18.0	27.0





#71

2-Chlorotoluene

Concen: 9.415 ppbv

RT: 15.63 min Scan# 3947

Delta R.T. 0.00 min

Lab File: VL033084.D

Acq: 5 Jan 2019 1:40

Instrument :

MSVOA_L

ClientSampleId :

VL0104ABS01

Tot Ion: 91 Resp: 2796795

Ion Ratio Lower Upper

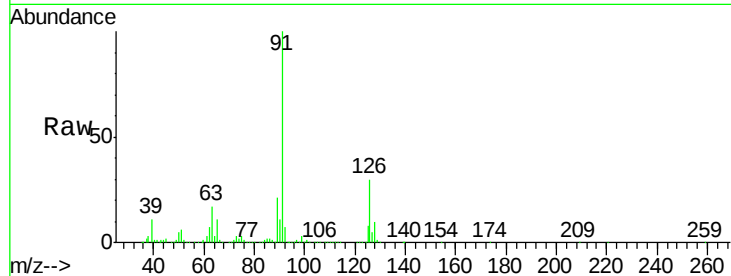
91 100

126 29.9 12.4 49.6

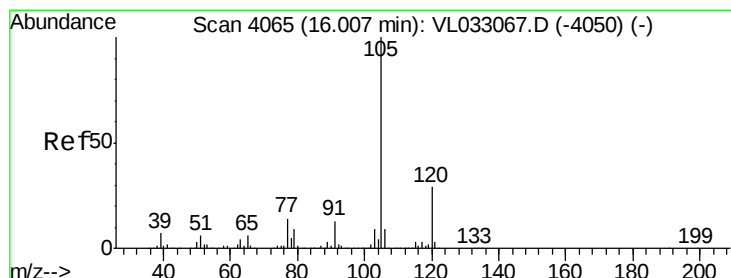
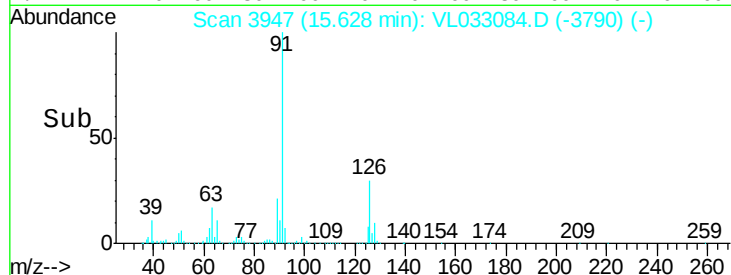
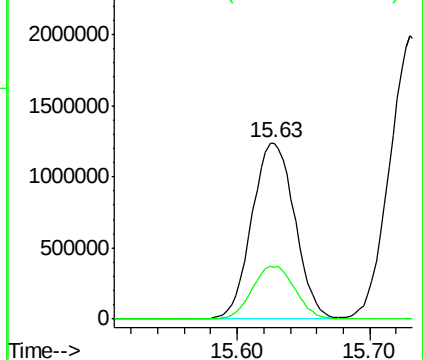
Manual Integrations
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1/8/2019 12:01:37 AM



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



#72

4-Ethyltoluene

Concen: 9.448 ppbv

RT: 16.01 min Scan# 4066

Delta R.T. 0.00 min

Lab File: VL033084.D

Acq: 5 Jan 2019 1:40

Tgt Ion:105 Resp: 3056063

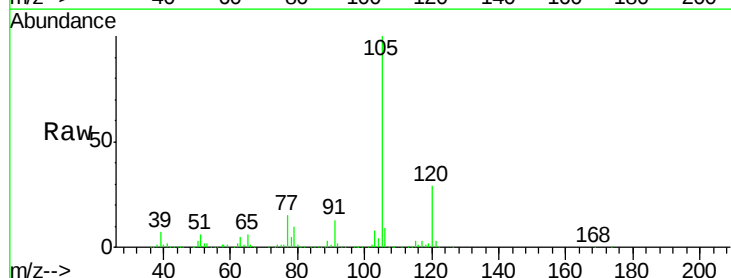
Ion Ratio Lower Upper

105 100

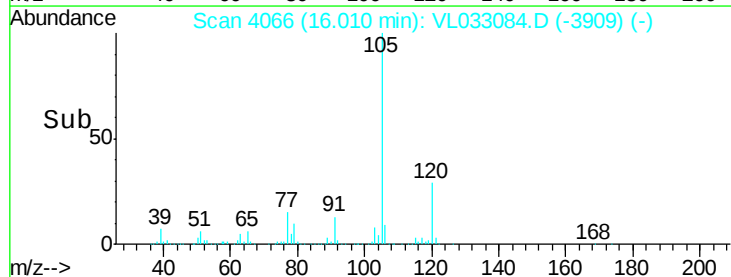
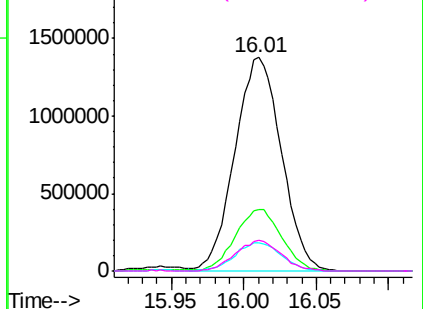
120 29.7 23.0 34.6

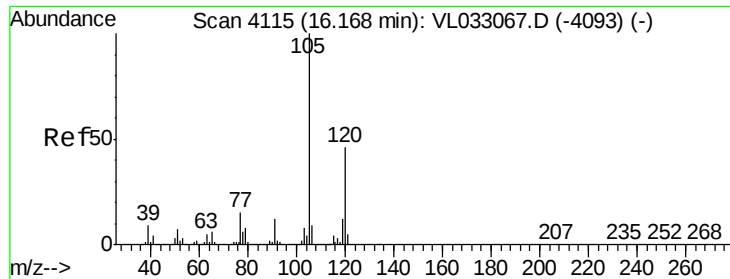
91 13.4 10.3 15.5

77 14.2 11.1 16.7



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: 9.224 ppbv

RT: 16.17 min Scan# 4115

Delta R.T. 0.00 min

Lab File: VL033084.D

Acq: 5 Jan 2019 1:40

Instrument :

MSVOA_L

ClientSampleId :

VL0104ABS01

Tot Ion:105 Resp: 2943716

Ion Ratio Lower Upper

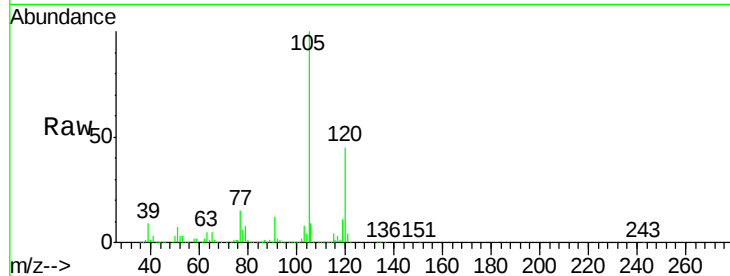
105 100

120 45.1 36.1 54.1

Manual Integrations
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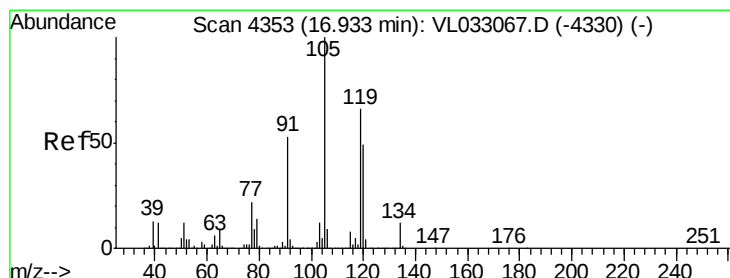
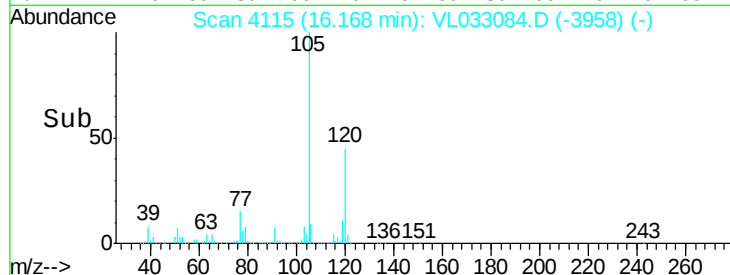
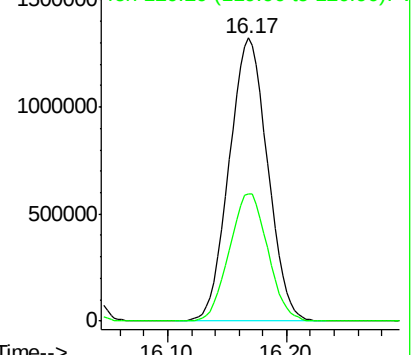
MMDadoda

1/8/2019 12:01:37 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: 8.716 ppbv

RT: 16.94 min Scan# 4354

Delta R.T. 0.00 min

Lab File: VL033084.D

Acq: 5 Jan 2019 1:40

Tgt Ion:105 Resp: 3080599

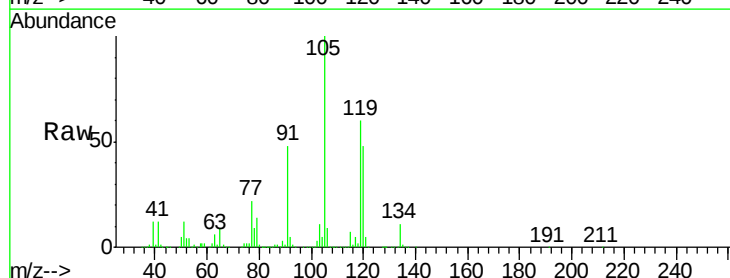
Ion Ratio Lower Upper

105 100

120 47.7 37.0 55.4

91 48.0 35.4 53.0

77 21.7 17.1 25.7

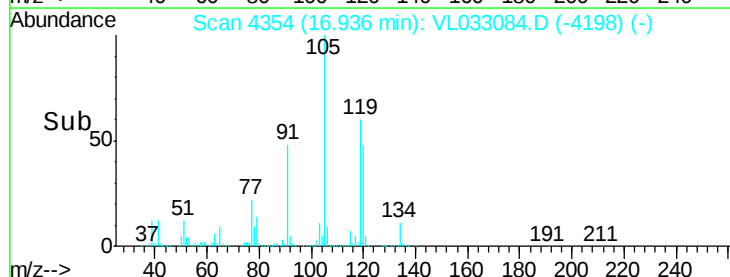
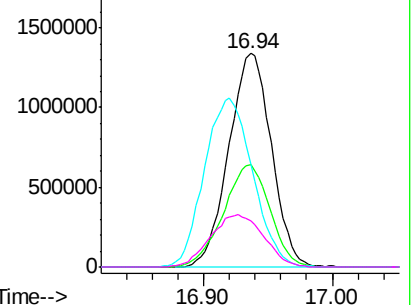


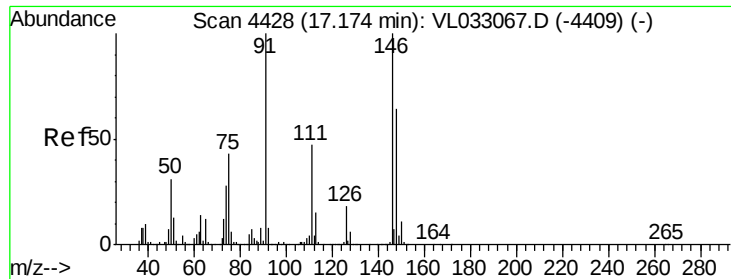
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 8.563 ppbv

RT: 17.18 min Scan# 4429

Delta R.T. 0.00 min

Lab File: VL033084.D

Acq: 5 Jan 2019 1:40

Instrument :

MSVOA_L

ClientSampleId :

VL0104ABS01

Tot Ion:146 Resp: 1781461

Ion Ratio Lower Upper

146 100

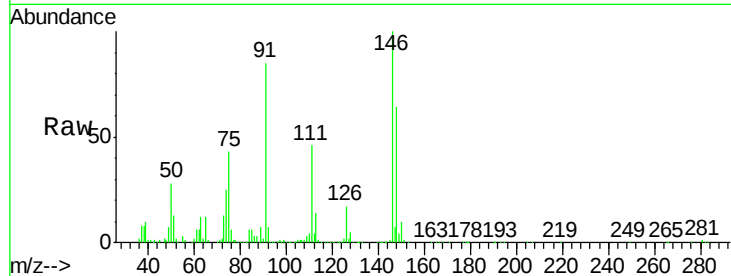
111 47.3 23.4 70.2

148 63.9 32.1 96.3

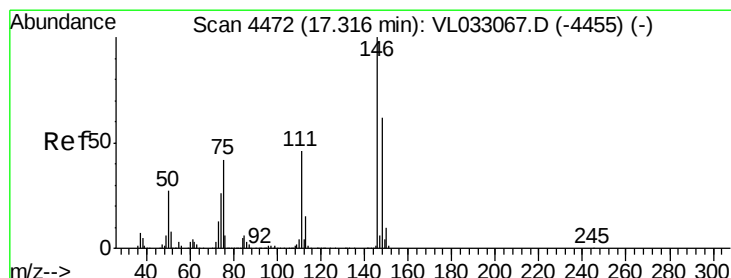
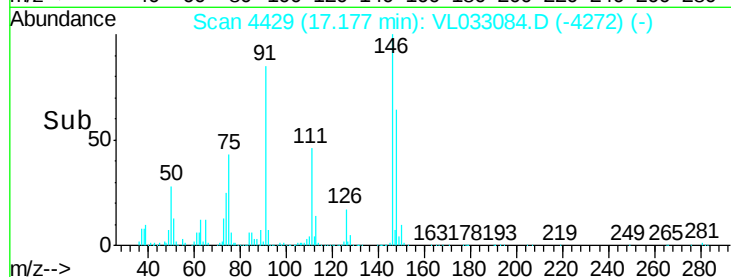
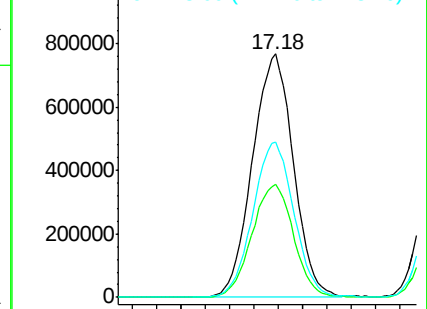
Manual Integrations
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 9.189 ppbv

RT: 17.32 min Scan# 4472

Delta R.T. 0.00 min

Lab File: VL033084.D

Acq: 5 Jan 2019 1:40

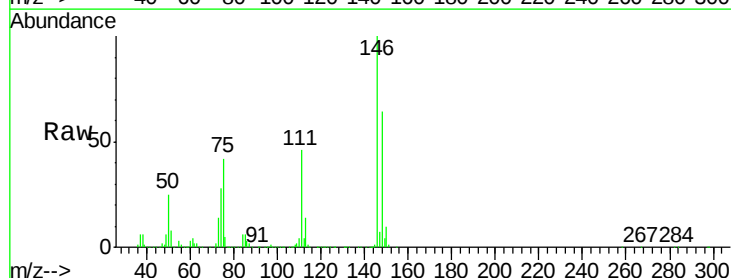
Tgt Ion:146 Resp: 1741578

Ion Ratio Lower Upper

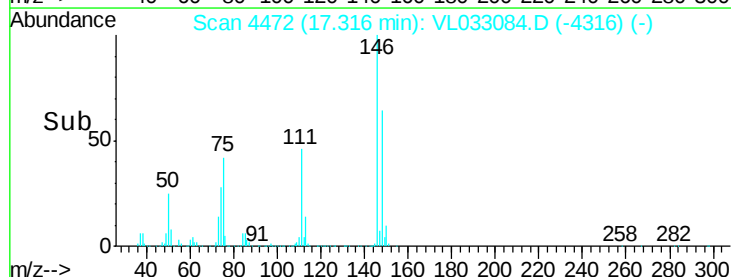
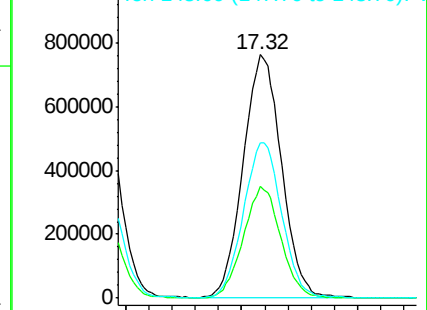
146 100

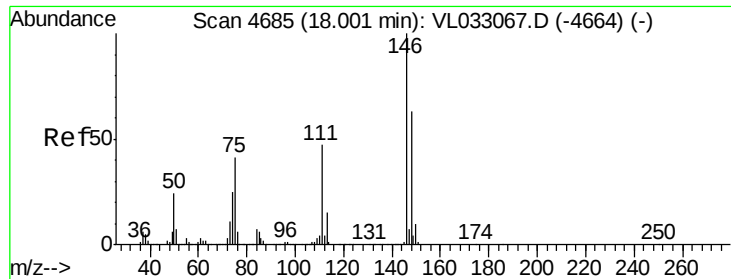
111 45.3 22.7 68.1

148 64.5 32.4 97.2



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





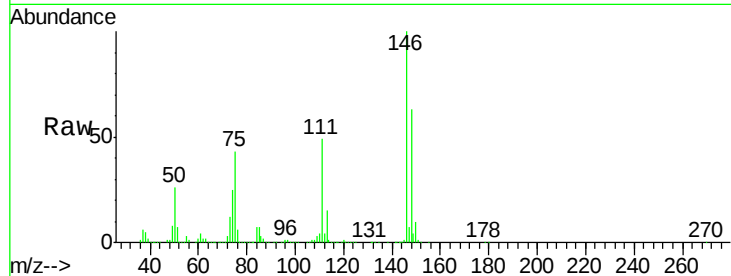
#77
 1,2-Dichlorobenzene
 Concen: 9.394 ppbv
 RT: 18.00 min Scan# 4684
 Delta R.T. 0.00 min
 Lab File: VL033084.D
 Acq: 5 Jan 2019 1:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0104ABS01

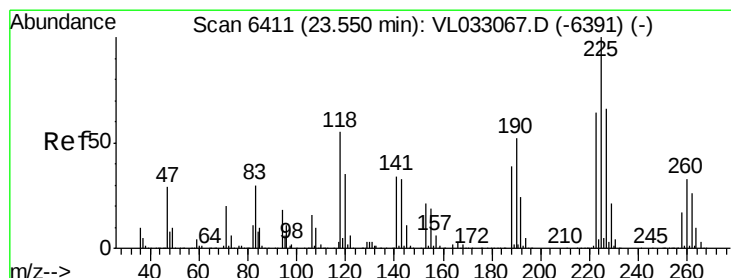
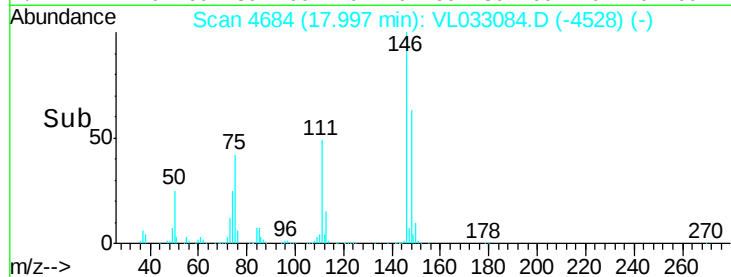
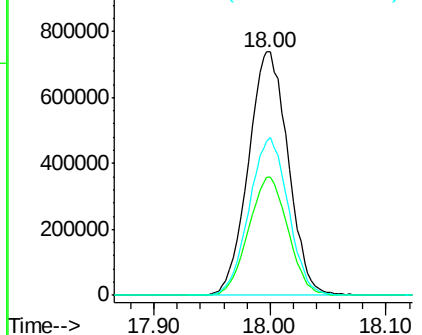
Tot Ion:146 Resp: 1760064
 Ion Ratio Lower Upper
 146 100
 111 48.3 24.4 73.2
 148 64.0 32.3 96.9

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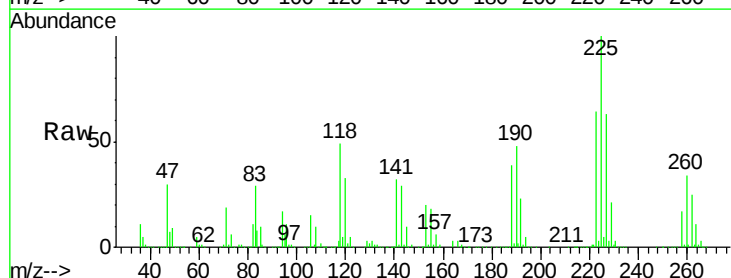


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

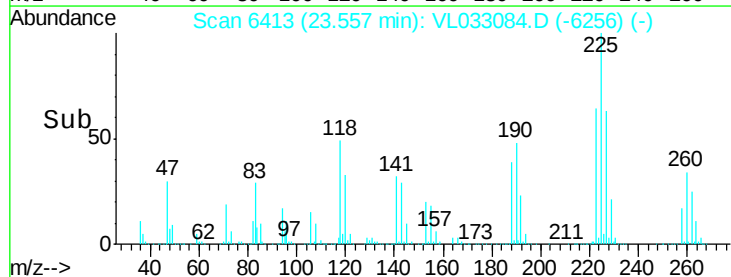
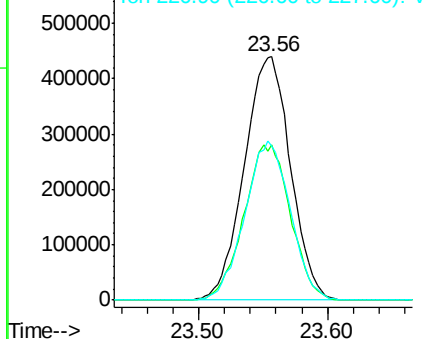


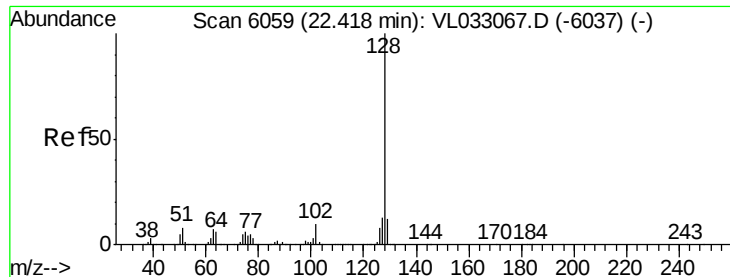
#78
 Hexachloro-1,3-Butadiene
 Concen: 7.631 ppbv
 RT: 23.56 min Scan# 6413
 Delta R.T. 0.00 min
 Lab File: VL033084.D
 Acq: 5 Jan 2019 1:40

Tgt Ion:225 Resp: 1098134
 Ion Ratio Lower Upper
 225 100
 223 64.2 51.0 76.6
 227 64.2 51.0 76.4



Abundance Ion 224.90 (224.60 to 225.60): V
 Ion 222.90 (222.60 to 223.60): V
 Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 12.334 ppbv

RT: 22.42 min Scan# 6061

Delta R.T. 0.00 min

Lab File: VL033084.D

Acq: 5 Jan 2019 1:40

Instrument :

MSVOA_L

ClientSampleId :

VL0104ABS01

Tot Ion:128 Resp: 3671899

Ion Ratio Lower Upper

128 100

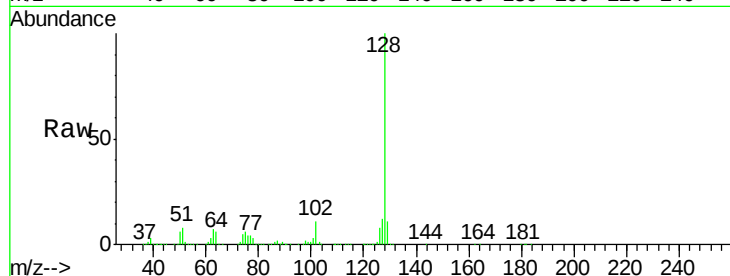
127 12.5 11.0 16.6

129 11.2 9.4 14.0

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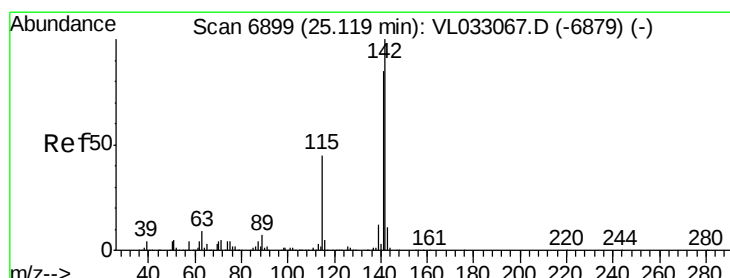
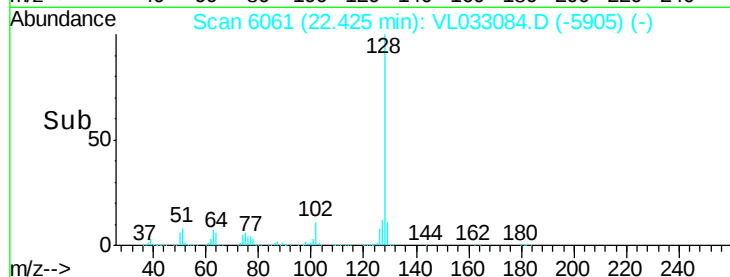
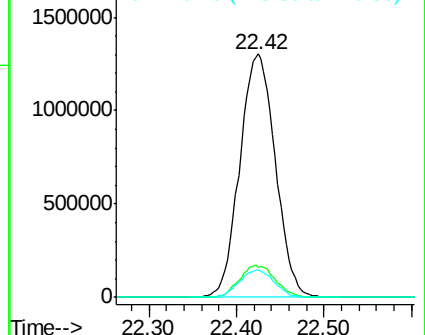
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Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 9.669 ppbv

RT: 25.12 min Scan# 6900

Delta R.T. 0.00 min

Lab File: VL033084.D

Acq: 5 Jan 2019 1:40

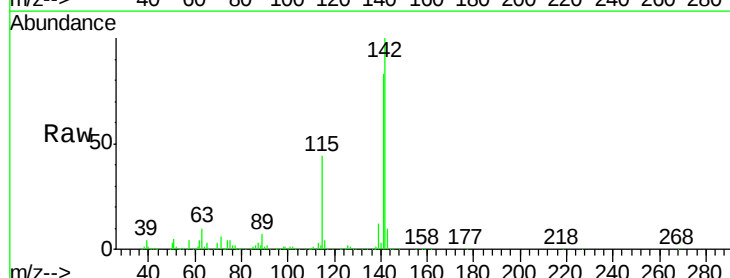
Tgt Ion:142 Resp: 873609

Ion Ratio Lower Upper

142 100

141 83.5 68.6 103.0

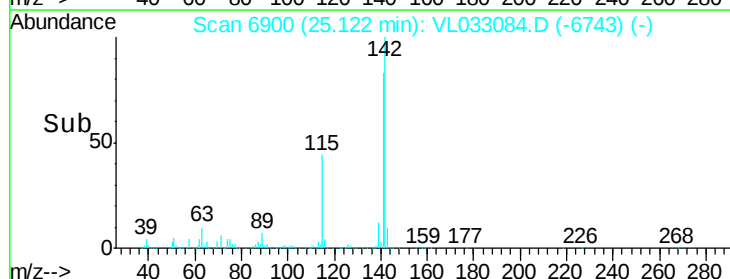
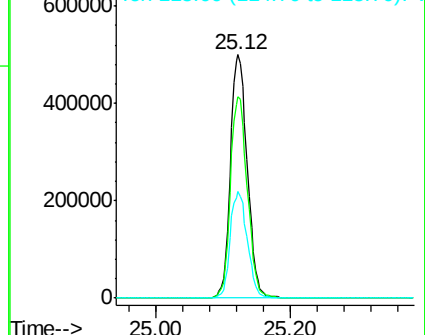
115 44.6 35.6 53.4

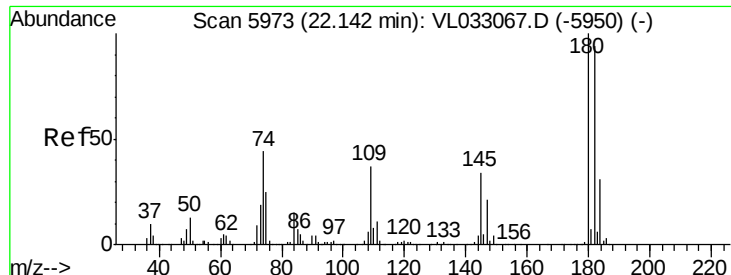


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 11.914 ppbv
 RT: 22.15 min Scan# 5976
 Delta R.T. 0.01 min
 Lab File: VL033084.D
 Acq: 5 Jan 2019 1:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0104ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.3	76.1	114.1
184	30.2	24.6	37.0

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