

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL010419\
 Data File : VL033071.D
 Acq On : 4 Jan 2019 17:06
 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 12:01:17 AM

Quant Time: Jan 05 02:02:20 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	1135221	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2839221	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2915892m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2144912	9.60	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	2564455	12.139	ppbv 99
3) Chlorodifluoromethane	3.02	51	1409454	10.968	ppbv 99
4) Chloromethane	3.17	50	763302	10.371	ppbv 99
5) Vinyl Chloride	3.29	62	788027	10.601	ppbv 98
6) Bromomethane	3.52	94	512811	10.155	ppbv 99
7) Chloroethane	3.60	64	280079	9.635	ppbv 93
8) Dichlorotetrafluoroethane	3.22	85	2029687	11.153	ppbv 100
9) Propene	3.04	41	544053	11.333	ppbv 99
10) Heptane	8.25	43	1330483	9.734	ppbv 99
11) Trichlorofluoromethane	4.01	101	1969147	8.435	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1318717	8.934	ppbv 100
13) Ethanol	3.65	45	146638	7.660	ppbv 94
14) Bromoethene	3.79	108	615308	9.438	ppbv 97
15) Acetone	3.90	43	1258080	8.006	ppbv 100
16) 1,3-Butadiene	3.37	39	618522	10.439	ppbv 93
17) tert-Butyl alcohol	4.36	59	316357	9.504	ppbv 99
18) 1,1-Dichloroethene	4.35	96	602201	8.856	ppbv 98
19) Isopropyl Alcohol	4.02	45	923798	8.540	ppbv 100
20) Methylene Chloride	4.41	84	518552	7.916	ppbv 97
21) Allyl Chloride	4.48	41	931985	9.571	ppbv 99
22) trans-1,2-Dichloroethene	4.97	96	590202	8.757	ppbv 98
23) Vinyl Acetate	5.16	43	1868064	9.345	ppbv 99
24) 1,1-Dichloroethane	5.09	63	1452919	8.561	ppbv 100
25) Ethyl Acetate	5.77	43	2293211	8.634	ppbv 99
26) Hexane	5.78	57	1068716	8.546	ppbv 99
27) Carbon Disulfide	4.62	76	1512788	9.808	ppbv 99
28) Methyl tert-Butyl Ether	5.11	73	1806087	9.252	ppbv 99
29) Chloroform	5.86	83	1856083	8.709	ppbv 99
30) Cyclohexane	7.25	84	927333	9.945	ppbv 99
31) cis-1,2-Dichloroethene	5.65	61	1100791	9.479	ppbv 99
32) 1,1,1-Trichloroethane	6.62	97	1897285	8.772	ppbv 99
34) 2-Butanone	5.33	43	1434980	8.699	ppbv 100
35) Carbon Tetrachloride	7.14	117	2131426	8.740	ppbv 99
36) Benzene	7.01	78	2168130	9.322	ppbv 99
37) 1,2-Dichloroethane	6.42	62	1425014	8.776	ppbv 100
38) Trichloroethene	7.97	130	923928	9.657	ppbv 98
39) 1,2-Dichloropropane	7.74	63	803589	9.197	ppbv 97
40) 1,4-Dioxane	7.96	88	316824	9.553	ppbv 94
41) Tetrahydrofuran	6.15	42	807339	9.615	ppbv 100
42) Bromodichloromethane	7.92	83	2020390	9.057	ppbv 98
43) Methyl Methacrylate	8.14	69	900952	10.324	ppbv 100

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Manual Integrations
 APPROVED

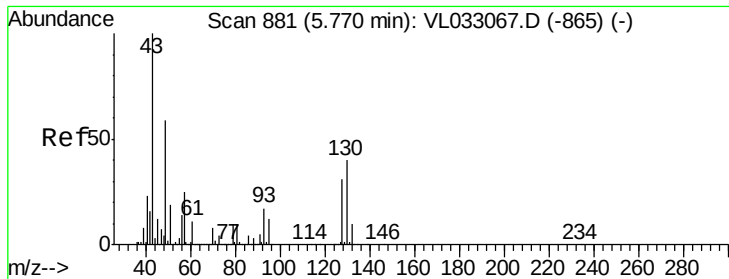
MMDadoda
 1/8/2019 12:01:17 AM

Quant Time: Jan 05 02:02:20 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	3692764	9.376	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1219580	11.227	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1407844	11.355	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	937228	9.182	ppbv	98
48) Dibromochloromethane	10.46	129	1773946	9.836	ppbv	100
49) Bromoform	13.21	173	1530870	9.715	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2121500	10.149	ppbv	100
51) 2-Hexanone	10.28	43	1623577	10.735	ppbv #	99
52) Tetrachloroethene	11.38	164	814834	9.912	ppbv	99
53) Toluene	9.95	91	2592591	10.402	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1483261	10.085	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.29	131	1267407	8.412	ppbv	100
57) Chlorobenzene	12.31	112	2047553	8.413	ppbv	99
58) Ethyl Benzene	12.87	91	3580719	9.726	ppbv	99
59) m/p-Xylene	13.16	91	6095607m	17.898	ppbv	
60) o-Xylene	13.86	91	3009604	9.027	ppbv	100
61) Styrene	13.69	104	2218154	10.427	ppbv	100
62) Isopropylbenzene	14.83	105	4244550	8.946	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	2068654	8.353	ppbv	100
64) n-propylbenzene	15.73	120	1080417	8.963	ppbv	98
65) tert-Butylbenzene	16.92	119	3747397	8.916	ppbv	99
66) Benzyl Chloride	17.16	91	2298484	9.595	ppbv	99
67) sec-Butylbenzene	17.47	105	5247846	8.725	ppbv	100
69) p-Isopropyltoluene	17.82	119	4326710	8.863	ppbv	100
70) n-Butylbenzene	18.72	91	4330808	8.825	ppbv	100
71) 2-Chlorotoluene	15.62	91	3141628	9.336	ppbv	99
72) 4-Ethyltoluene	16.01	105	3466709	9.461	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3288817	9.097	ppbv	99
74) 1,2,4-Trimethylbenzene	16.94	105	3410152	8.517	ppbv	99
75) 1,3-Dichlorobenzene	17.17	146	1902609	8.073	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	1861702	8.672	ppbv	100
77) 1,2-Dichlorobenzene	18.00	146	1799232	8.477	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	991006	6.079	ppbv	100
79) Naphthalene	22.42	128	3226748	9.568	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	1237902	12.096	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	1488165	9.134	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

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ClientSampleId :

VL0104ABS01

Tot Ion: 49 Resp: 1135221

Ion Ratio Lower Upper

49 100

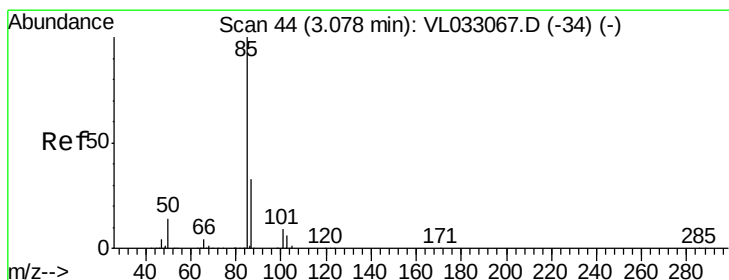
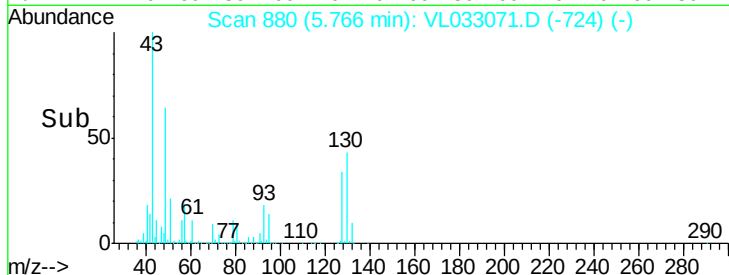
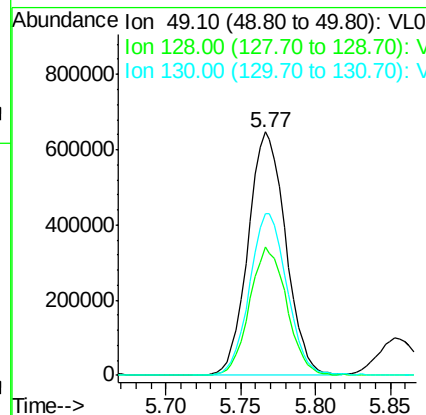
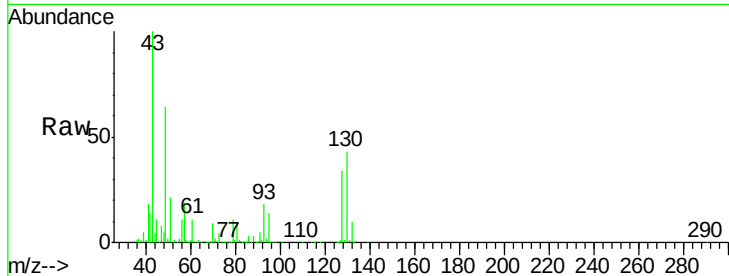
128 52.3 26.2 78.5

130 66.4 33.6 100.6

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 12.139 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033071.D

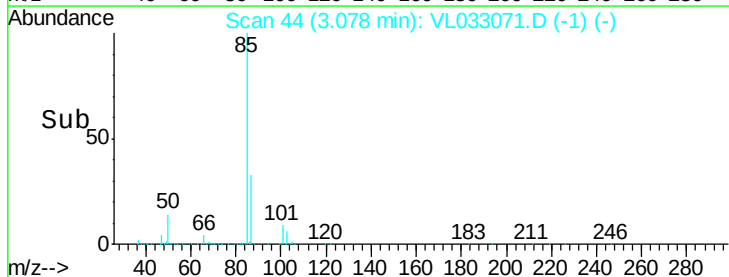
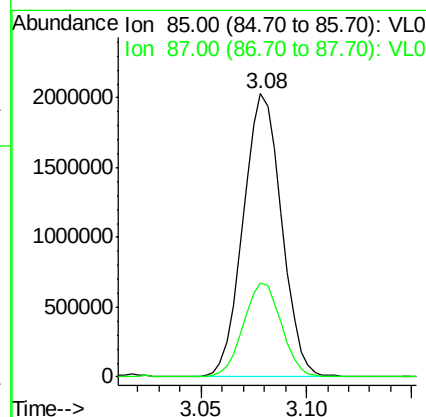
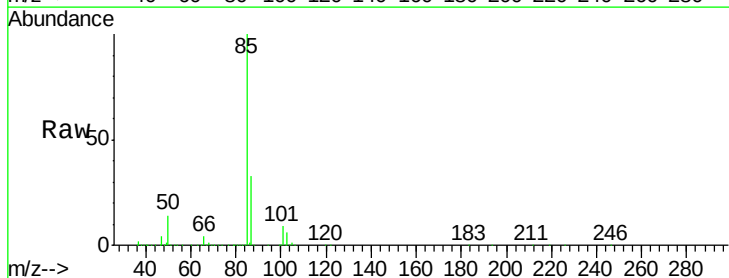
Acq: 4 Jan 2019 17:06

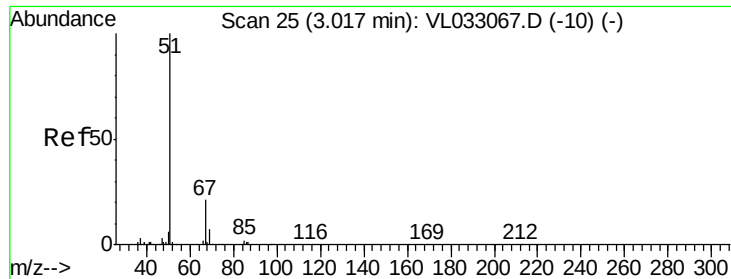
Tgt Ion: 85 Resp: 2564455

Ion Ratio Lower Upper

85 100

87 33.3 26.3 39.5





#3

Chlorodifluoromethane

Concen: 10.968 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033071.D

Acq: 4 Jan 2019 17:06

Tot Ion: 51 Resp: 1409454

Ion Ratio Lower Upper

51 100

67 20.9 16.3 24.5

Instrument :

MSVOA_L

ClientSampleId :

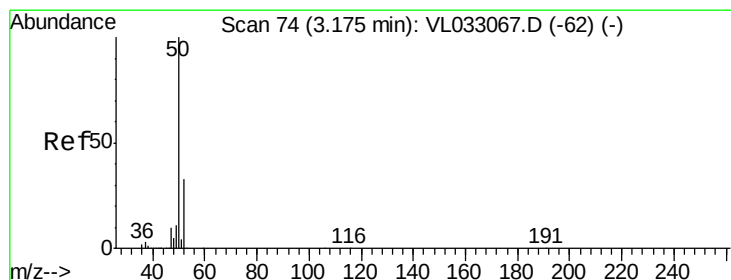
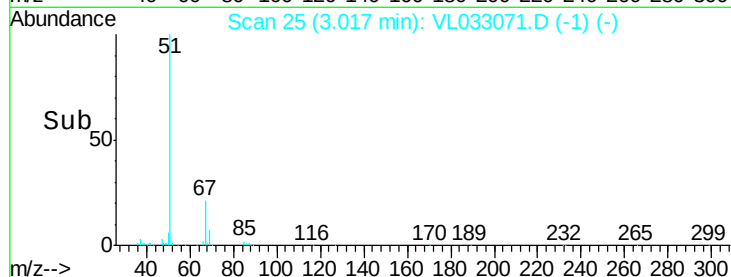
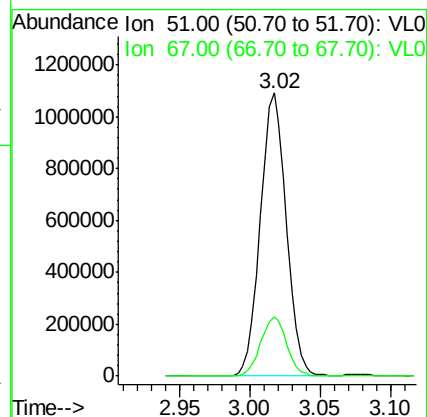
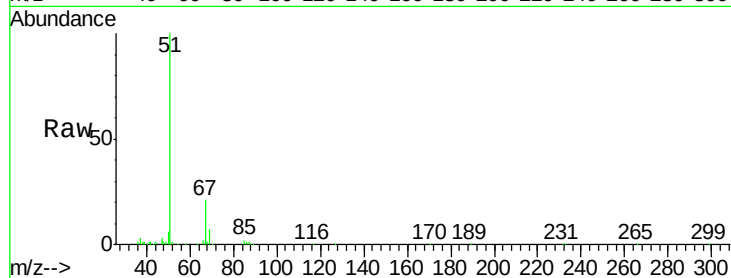
VL0104ABS01

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#4

Chloromethane

Concen: 10.371 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL033071.D

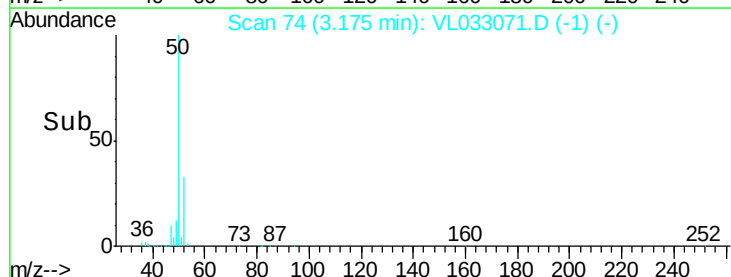
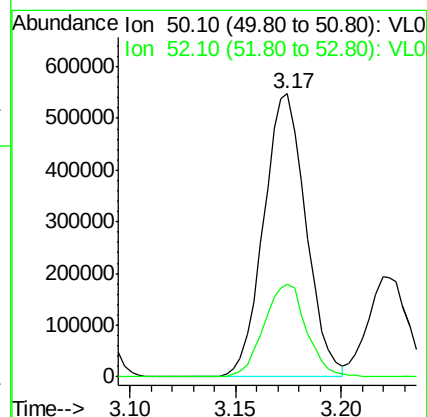
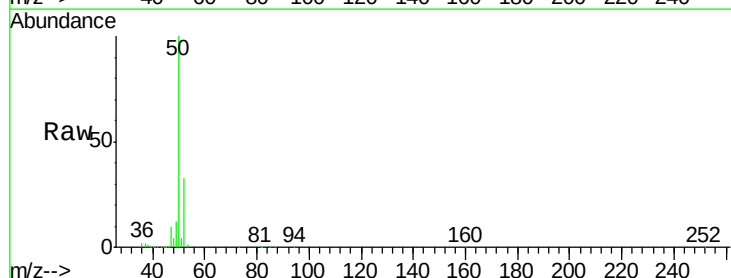
Acq: 4 Jan 2019 17:06

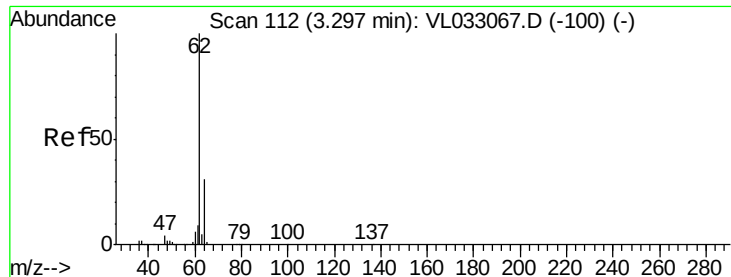
Tgt Ion: 50 Resp: 763302

Ion Ratio Lower Upper

50 100

52 32.8 26.9 40.3





#5

Vinyl Chloride

Concen: 10.601 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033071.D

Acq: 4 Jan 2019 17:06

Instrument :

MSVOA_L

ClientSampleId :

VL0104ABS01

Tot Ion: 62 Resp: 788027

Ion Ratio Lower Upper

62 100

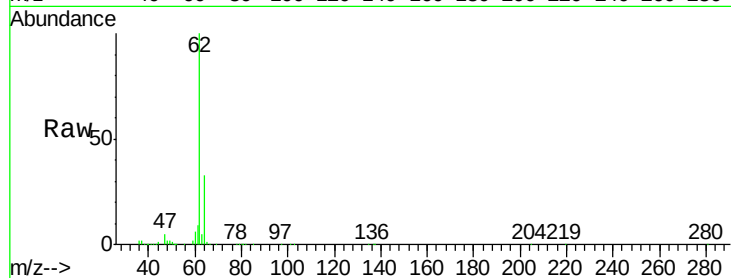
64 32.7 25.3 37.9

Manual Integrations

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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

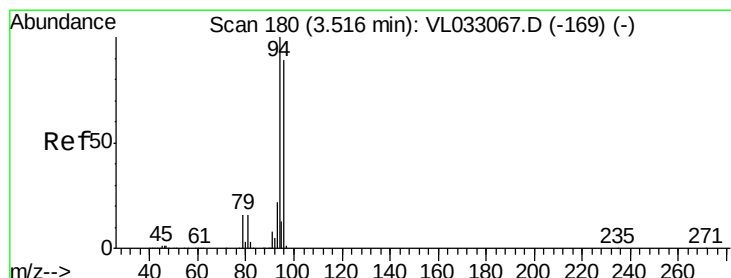
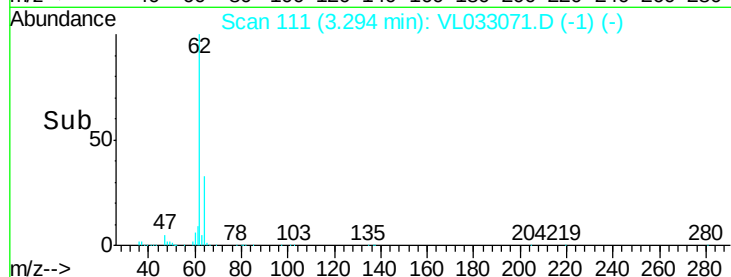
600000

400000

200000

0

Time-->



#6

Bromomethane

Concen: 10.155 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033071.D

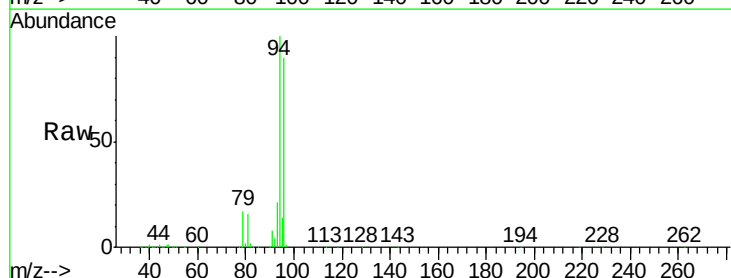
Acq: 4 Jan 2019 17:06

Tgt Ion: 94 Resp: 512811

Ion Ratio Lower Upper

94 100

96 90.1 72.8 109.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.52

400000

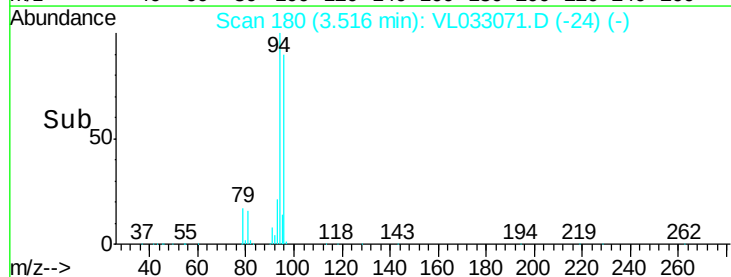
300000

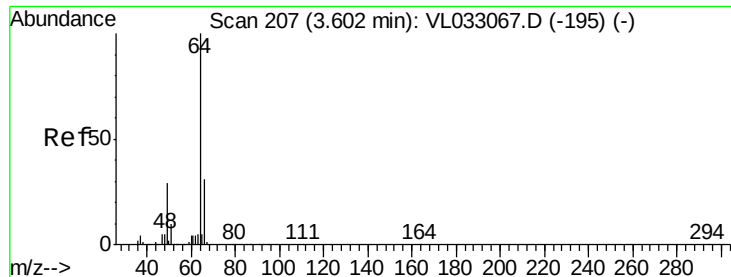
200000

100000

0

Time-->





#7

Chloroethane

Concen: 9.635 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033071.D

Acq: 4 Jan 2019 17:06

Instrument :

MSVOA_L

ClientSampleId :

VL0104ABS01

Tot Ion: 64 Resp: 280079

Ion Ratio Lower Upper

64 100

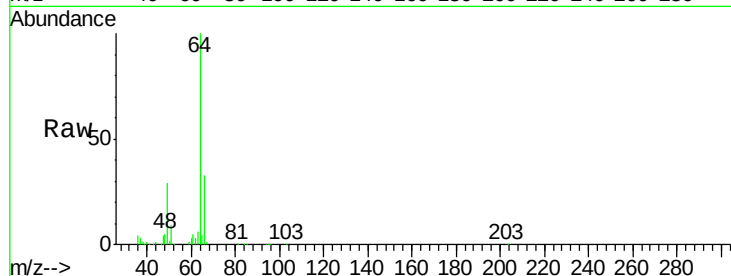
66 33.2 23.7 35.5

Manual Integrations

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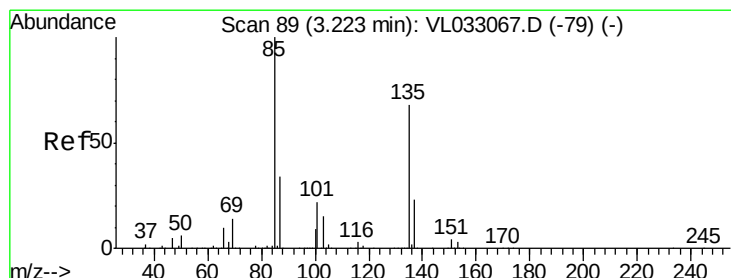
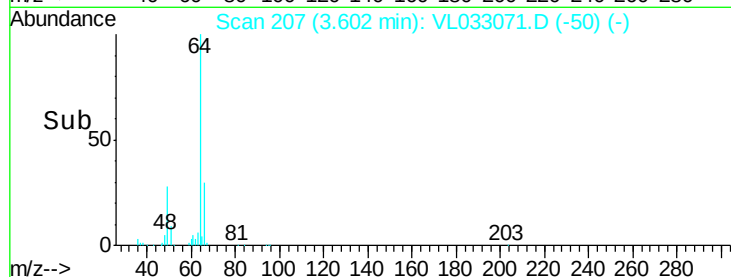
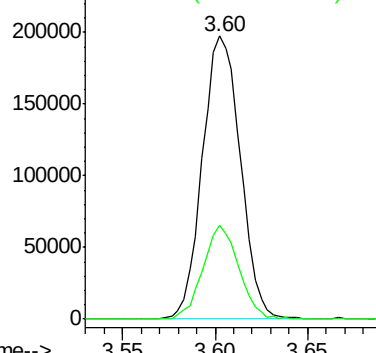
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 11.153 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL033071.D

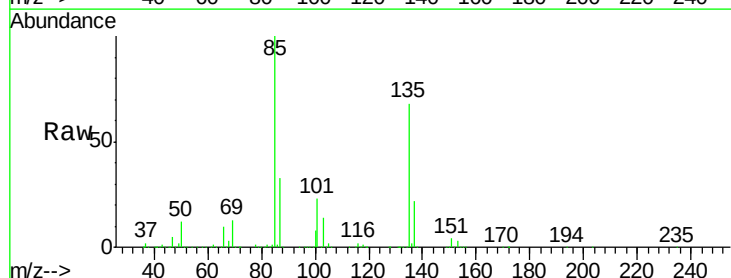
Acq: 4 Jan 2019 17:06

Tgt Ion: 85 Resp: 2029687

Ion Ratio Lower Upper

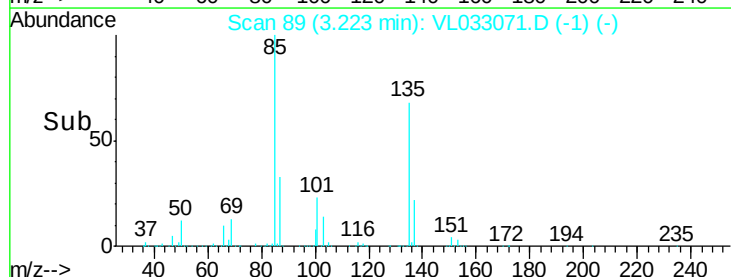
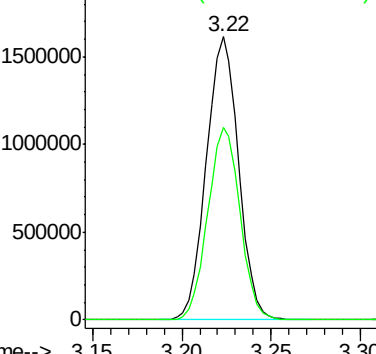
85 100

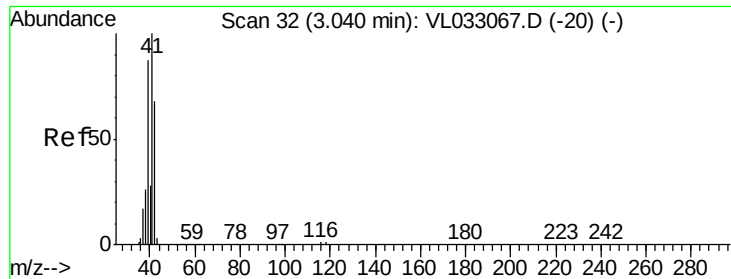
135 68.5 54.9 82.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 11.333 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL033071.D

Acq: 4 Jan 2019 17:06

Instrument :

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ClientSampleId :

VL0104ABS01

Tot Ion: 41 Resp: 544053

Ion Ratio Lower Upper

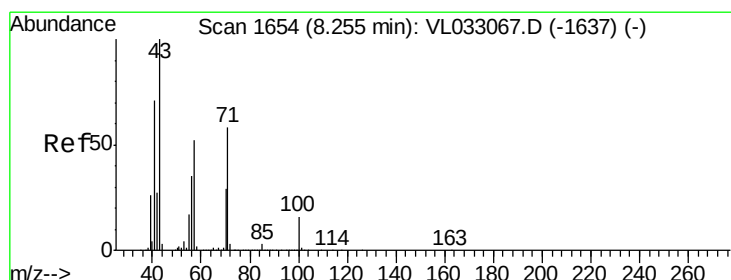
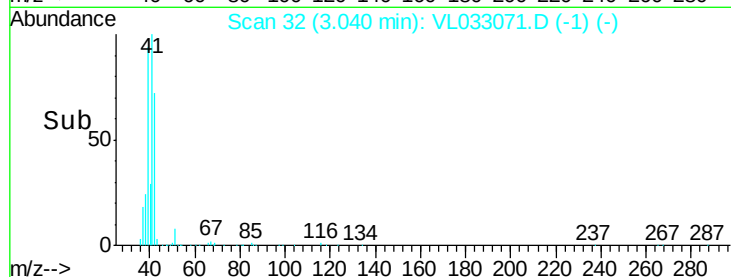
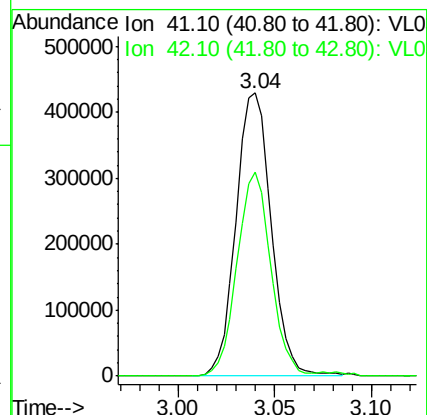
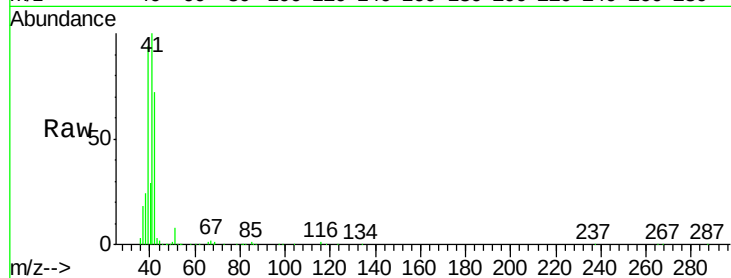
41 100

42 70.3 55.3 82.9

Manual Integrations
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#10

Heptane

Concen: 9.734 ppbv

RT: 8.25 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VL033071.D

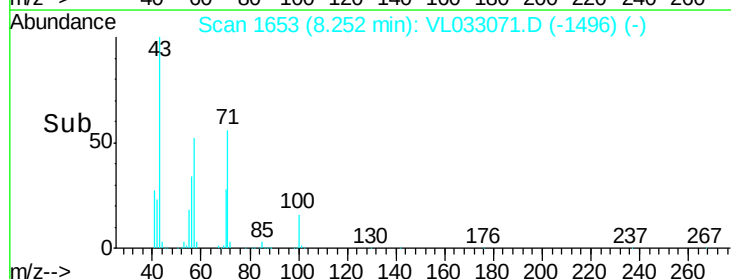
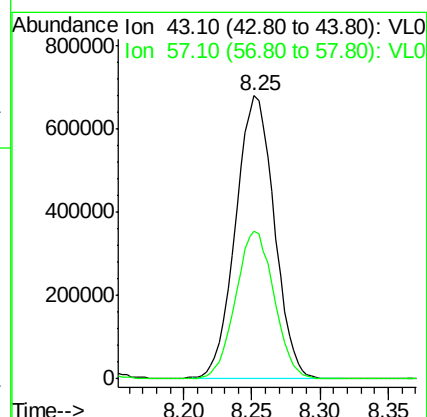
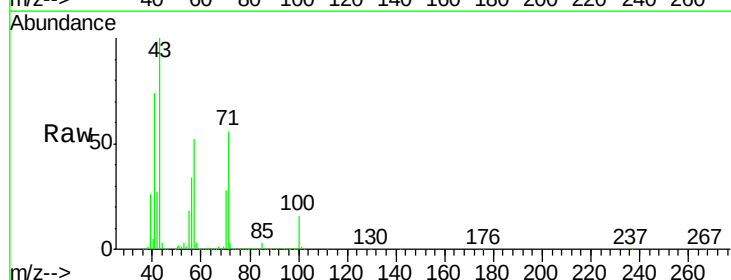
Acq: 4 Jan 2019 17:06

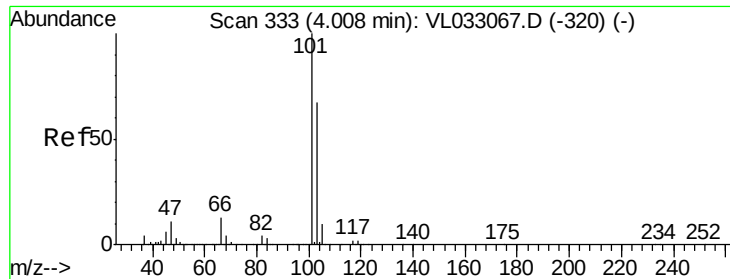
Tgt Ion: 43 Resp: 1330483

Ion Ratio Lower Upper

43 100

57 51.9 41.9 62.9





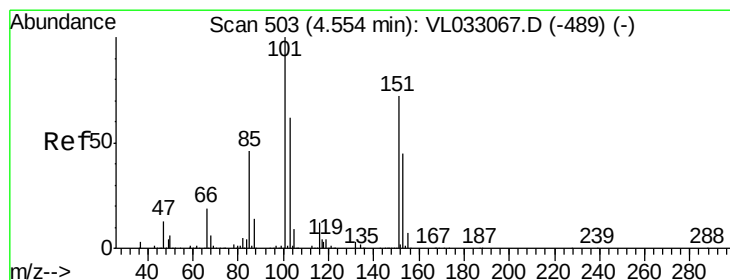
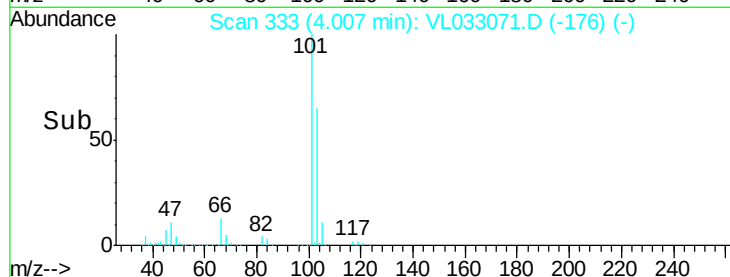
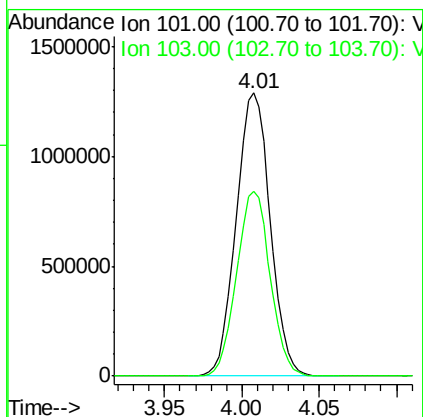
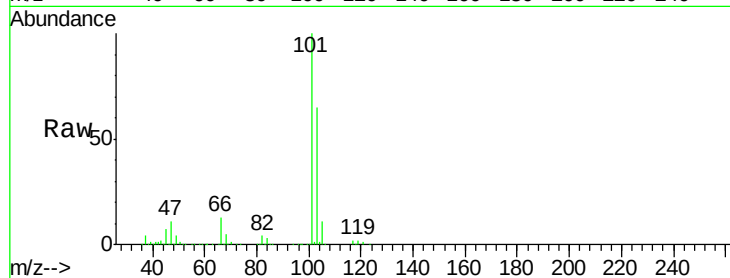
#11
 Trichlorofluoromethane
 Concen: 8.435 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. 0.00 min
 Lab File: VL033071.D
 Acq: 4 Jan 2019 17:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0104ABS01

Tot Ion:101 Resp: 1969147
 Ion Ratio Lower Upper
 101 100
 103 65.4 51.7 77.5

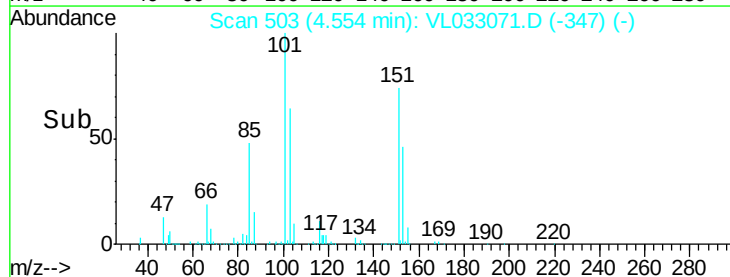
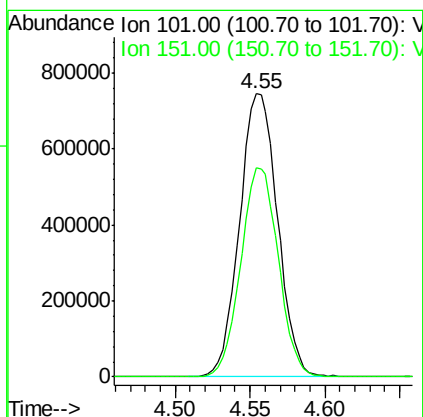
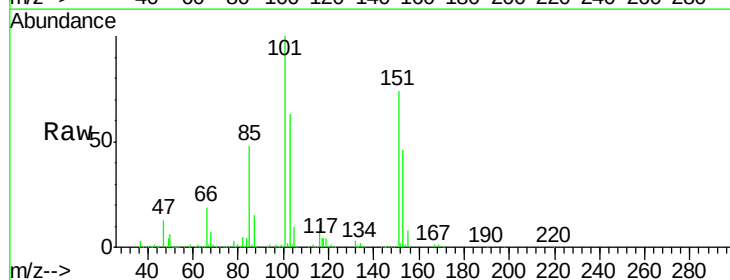
Manual Integrations
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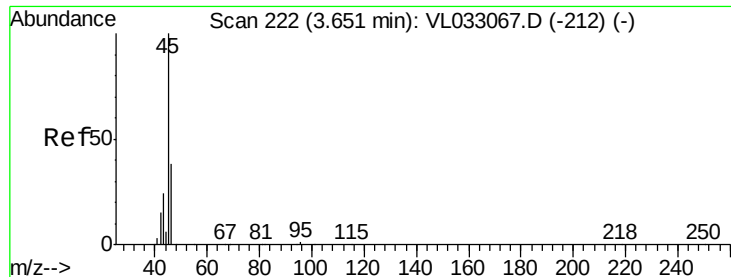
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.934 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VL033071.D
 Acq: 4 Jan 2019 17:06

Tgt Ion:101 Resp: 1318717
 Ion Ratio Lower Upper
 101 100
 151 73.1 58.3 87.5





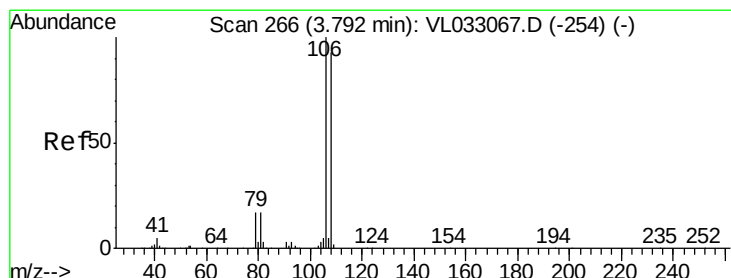
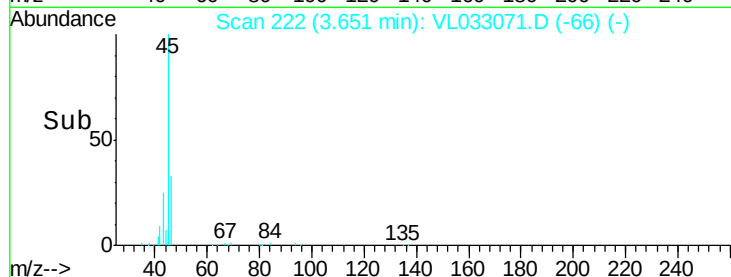
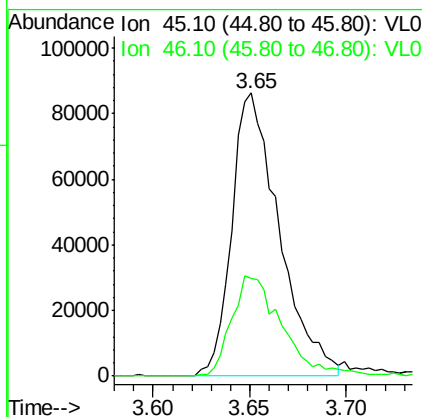
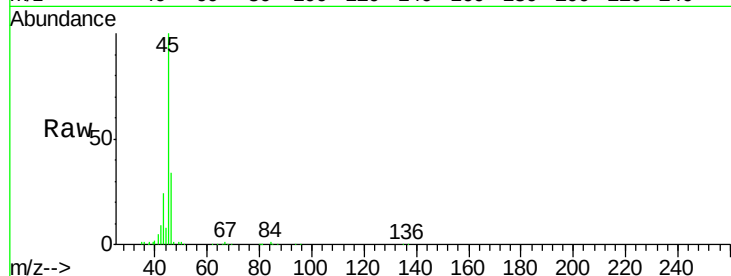
#13
Ethanol
Concen: 7.660 ppbv
RT: 3.65 min Scan# 222
Delta R.T. 0.00 min
Lab File: VL033071.D
Acq: 4 Jan 2019 17:06

Instrument :
MSVOA_L
ClientSampleId :
VL0104ABS01

Tot Ion	Ratio	Lower	Upper
45	100		
46	38.0	13.8	55.2

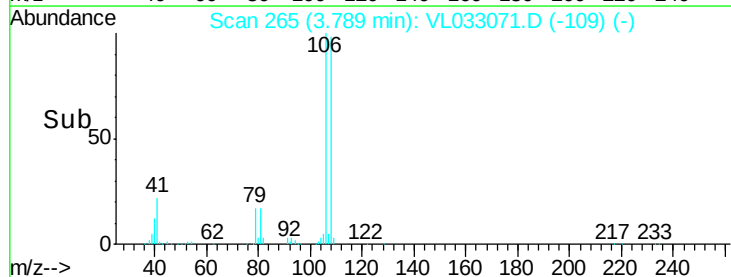
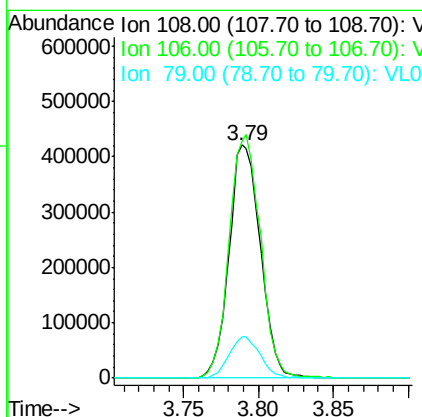
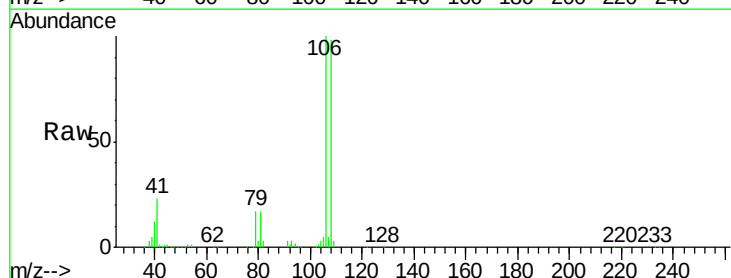
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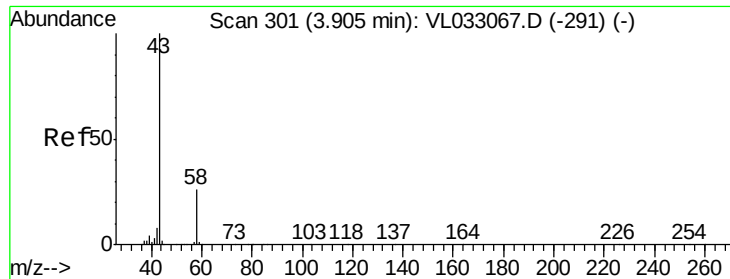
MMDadoda
1/8/2019 12:01:17 AM



#14
Bromoethene
Concen: 9.438 ppbv
RT: 3.79 min Scan# 265
Delta R.T. 0.00 min
Lab File: VL033071.D
Acq: 4 Jan 2019 17:06

Tgt Ion	Ratio	Lower	Upper
108	100		
106	104.6	86.4	129.6
79	17.9	14.3	21.5





#15

Acetone

Concen: 8.006 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.00 min

Lab File: VL033071.D

Acq: 4 Jan 2019 17:06

Tot Ion: 43 Resp: 1258080

Ion Ratio Lower Upper

43 100

58 26.3 21.1 31.7

Instrument :

MSVOA_L

ClientSampleId :

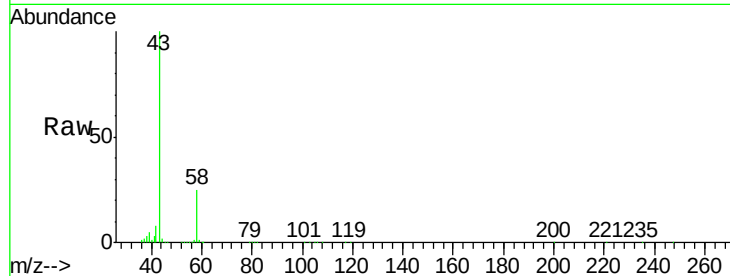
VL0104ABS01

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

1000000

800000

600000

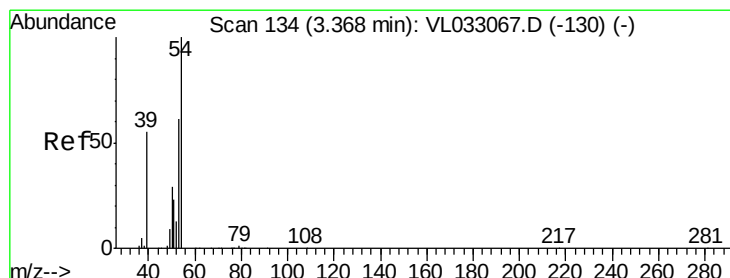
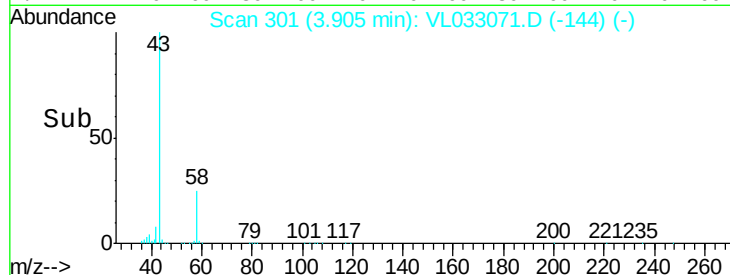
400000

200000

0

3.85 3.90 3.95 4.00

Time-->



#16

1,3-Butadiene

Concen: 10.439 ppbv

RT: 3.37 min Scan# 134

Delta R.T. 0.00 min

Lab File: VL033071.D

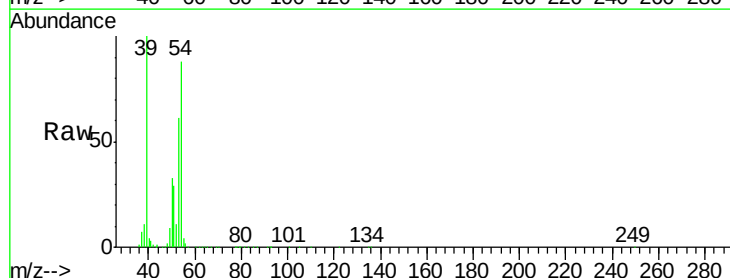
Acq: 4 Jan 2019 17:06

Tgt Ion: 39 Resp: 618522

Ion Ratio Lower Upper

39 100

54 98.7 73.7 110.5



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

600000

500000

400000

300000

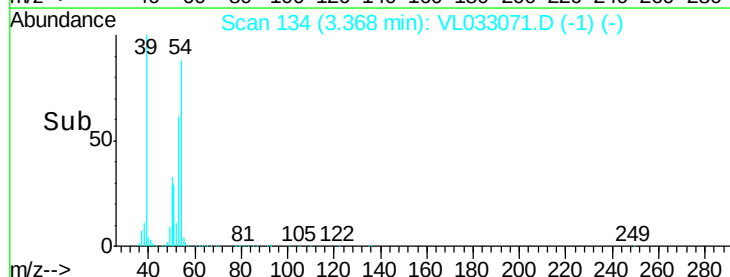
200000

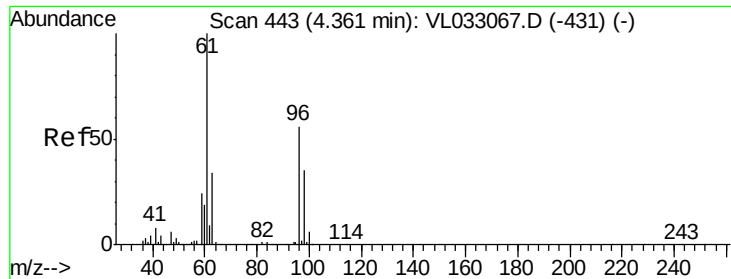
100000

0

3.34 3.36 3.38 3.40 3.42

Time-->





#17

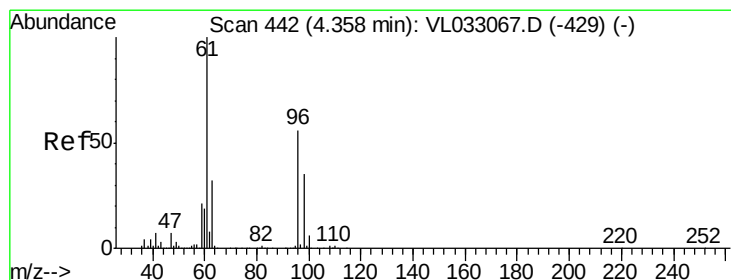
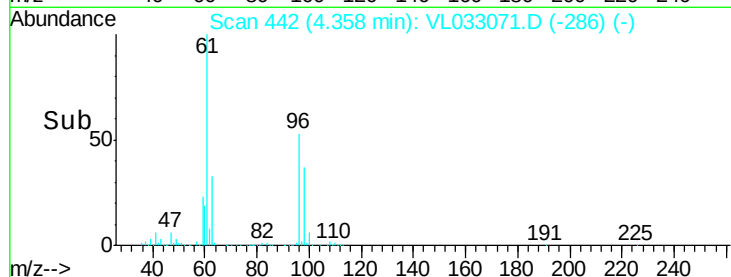
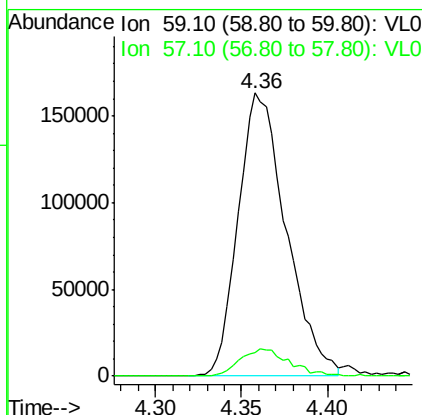
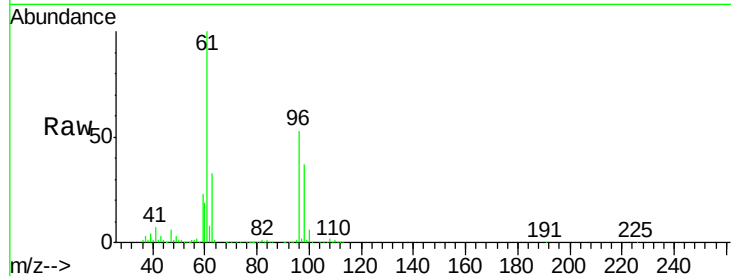
tert-Butyl alcohol
Concen: 9.504 ppbv
RT: 4.36 min Scan# 442
Delta R.T. 0.00 min
Lab File: VL033071.D
Acq: 4 Jan 2019 17:06

Instrument :
MSVOA_L
ClientSampleId :
VL0104ABS01

Tot Ion: 59 Resp: 316357
Ion Ratio Lower Upper
59 100
57 10.1 7.7 11.5

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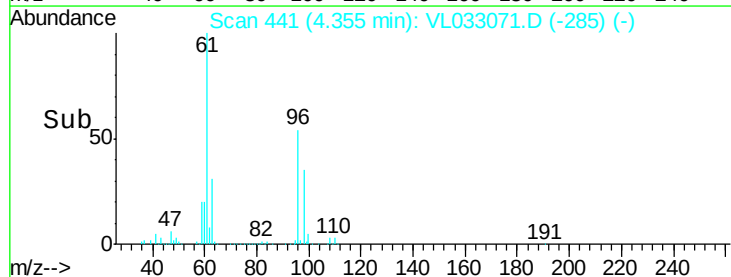
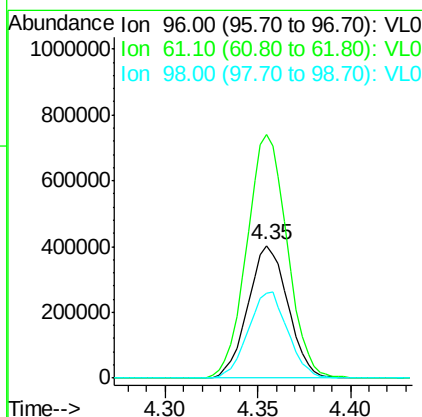
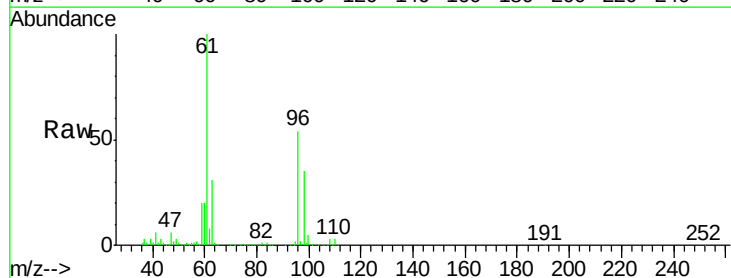
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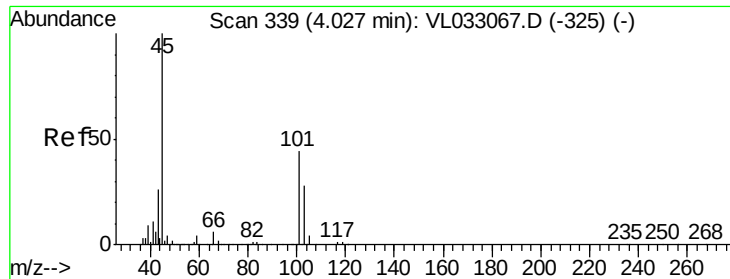


#18

1,1-Dichloroethene
Concen: 8.856 ppbv
RT: 4.35 min Scan# 441
Delta R.T. 0.00 min
Lab File: VL033071.D
Acq: 4 Jan 2019 17:06

Tgt Ion: 96 Resp: 602201
Ion Ratio Lower Upper
96 100
61 183.6 143.7 215.5
98 64.0 52.1 78.1





#19

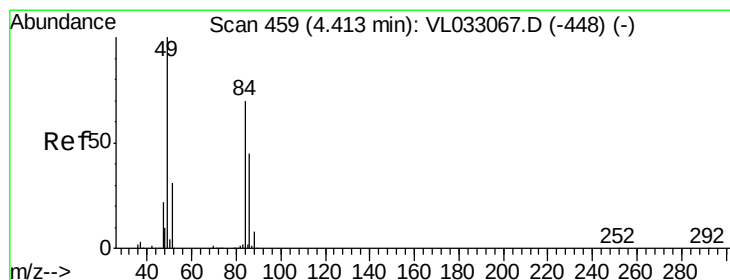
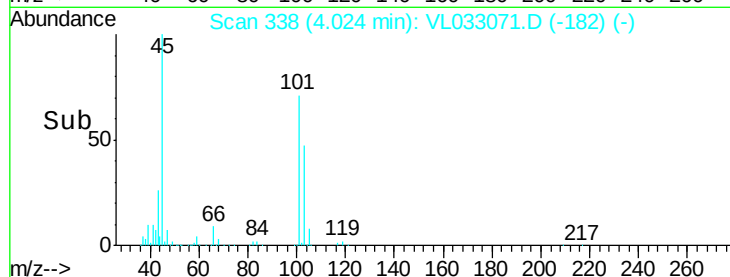
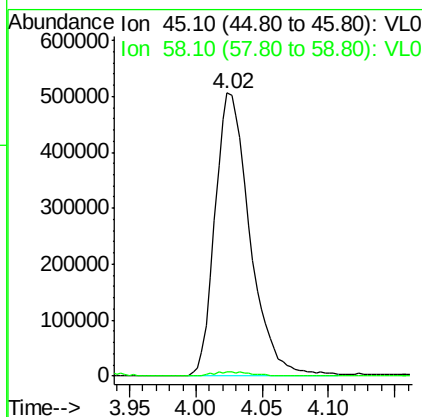
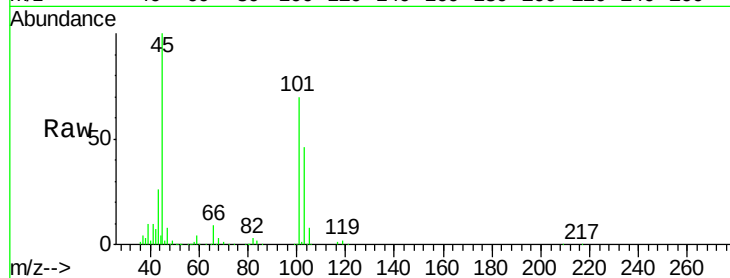
Isopropyl Alcohol
 Concen: 8.540 ppbv
 RT: 4.02 min Scan# 338
 Delta R.T. 0.00 min
 Lab File: VL033071.D
 Acq: 4 Jan 2019 17:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0104ABS01

Tot Ion	Ratio	Lower	Upper
45	100		
58	1.9	1.4	2.2

Manual Integrations
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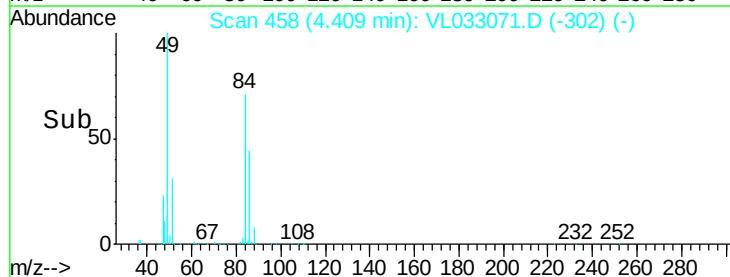
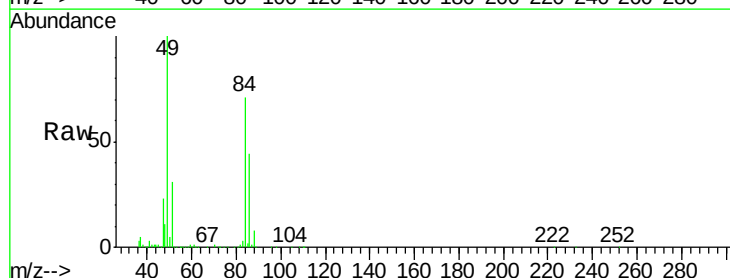
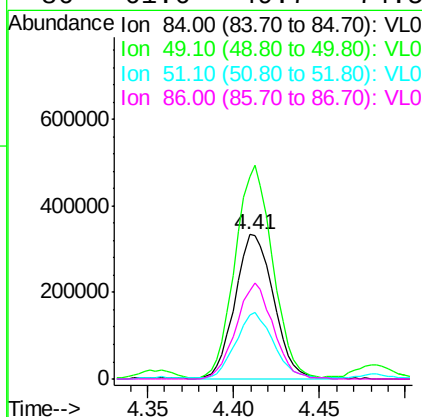
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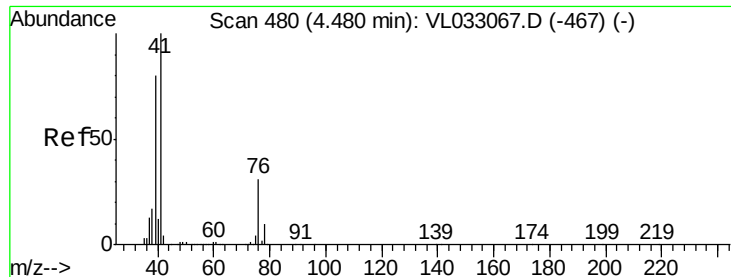


#20

Methylene Chloride
 Concen: 7.916 ppbv
 RT: 4.41 min Scan# 458
 Delta R.T. 0.00 min
 Lab File: VL033071.D
 Acq: 4 Jan 2019 17:06

Tgt Ion	Ratio	Lower	Upper
84	100		
49	139.5	115.8	173.6
51	43.7	35.7	53.5
86	61.6	49.7	74.5





#21

Allvl Chloride

Concen: 9.571 ppbv

RT: 4.48 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL033071.D

Acq: 4 Jan 2019 17:06

Instrument :

MSVOA_L

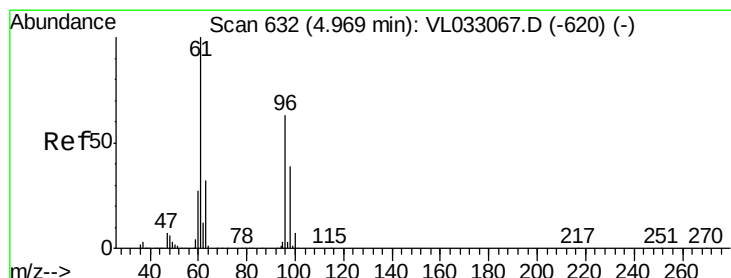
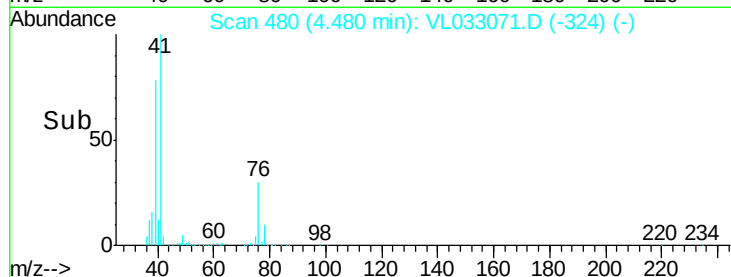
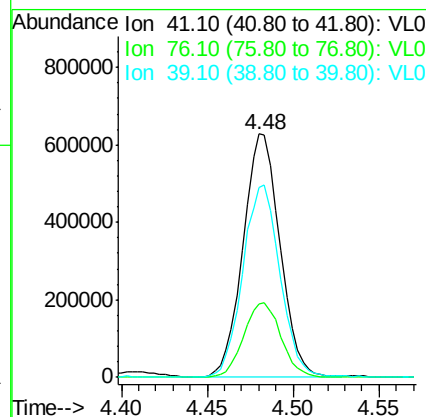
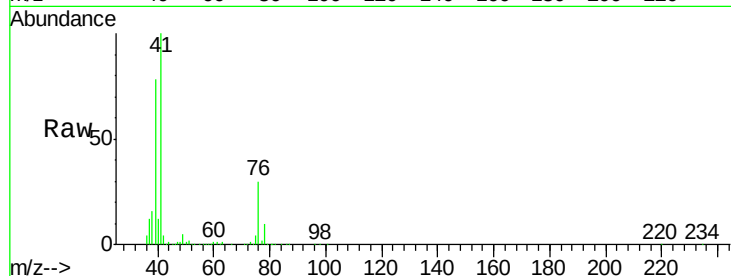
ClientSampleId :

VL0104ABS01

Tot Ion:	41	Resp:	931985
Ion	Ratio	Lower	Upper
41	100		
76	31.0	24.6	36.8
39	80.1	62.8	94.2

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 8.757 ppbv

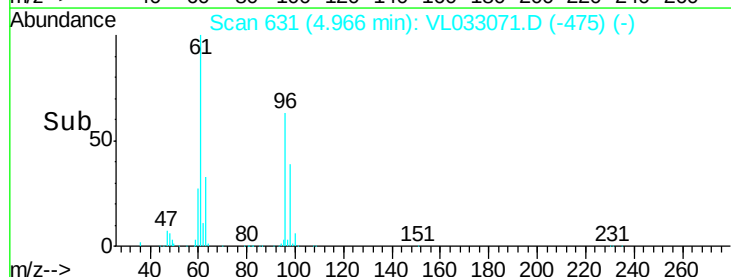
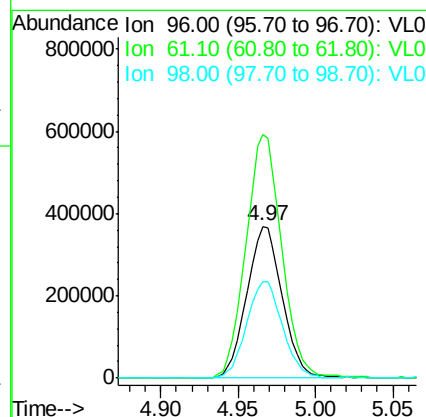
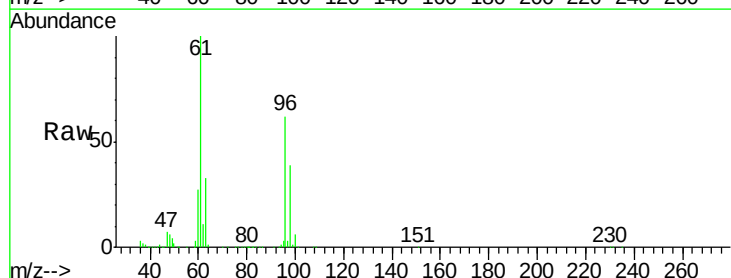
RT: 4.97 min Scan# 631

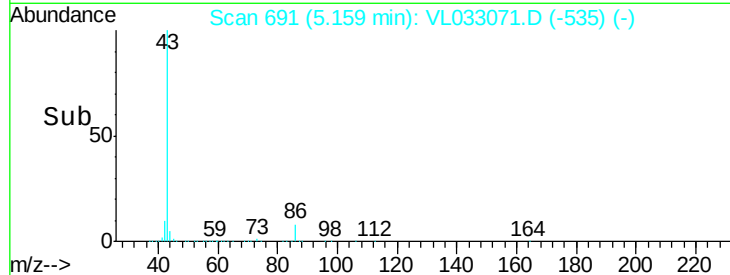
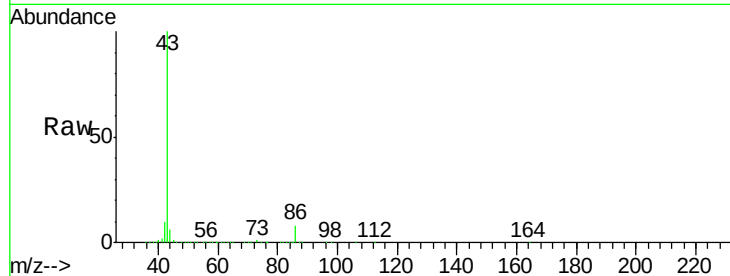
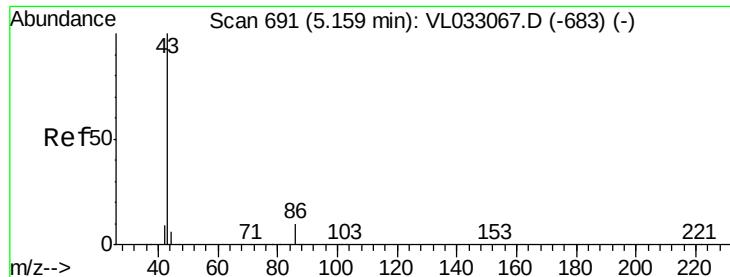
Delta R.T. 0.00 min

Lab File: VL033071.D

Acq: 4 Jan 2019 17:06

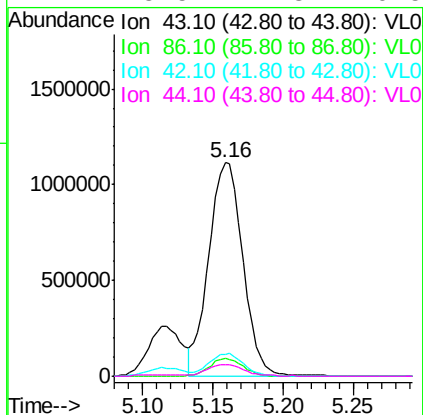
Tgt Ion:	96	Resp:	590202
Ion	Ratio	Lower	Upper
96	100		
61	160.1	125.2	187.8
98	62.9	50.9	76.3





#23
 Vinyl Acetate
 Concen: 9.345 ppbv
 RT: 5.16 min Scan# 691
 Delta R.T. 0.00 min
 Lab File: VL033071.D
 Acq: 4 Jan 2019 17:06

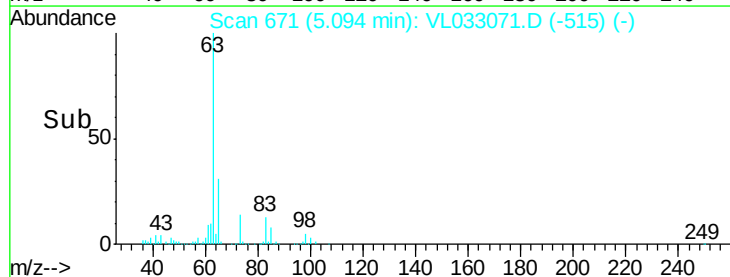
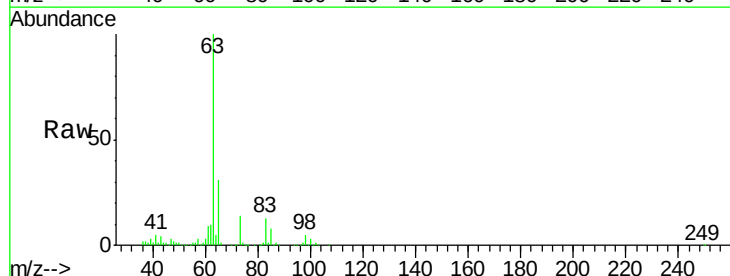
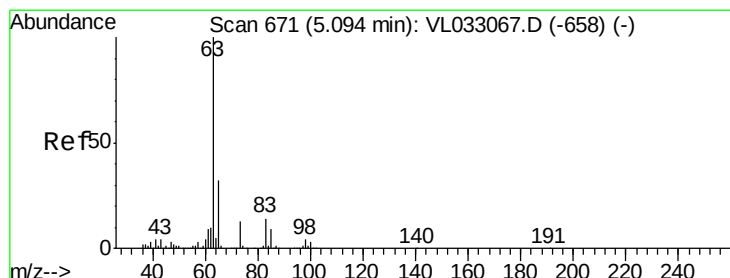
Tot Ion	43	Resp	1868064
Ion	Ratio	Lower	Upper
43	100		
86	8.1	6.2	9.4
42	10.4	8.1	12.1
44	5.5	4.3	6.5



Instrument :
 MSVOA_L
 ClientSampleId :
 VL0104ABS01

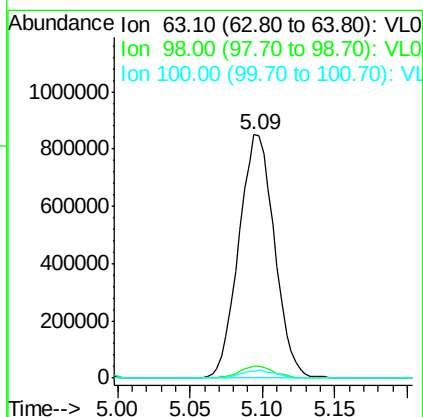
Manual Integrations
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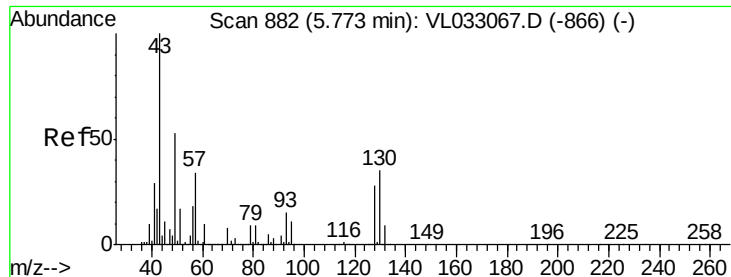
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#24
 1,1-Dichloroethane
 Concen: 8.561 ppbv
 RT: 5.09 min Scan# 671
 Delta R.T. 0.00 min
 Lab File: VL033071.D
 Acq: 4 Jan 2019 17:06

Tgt Ion	63	Resp	1452919
Ion	Ratio	Lower	Upper
63	100		
98	5.0	2.4	7.2
100	2.7	1.4	4.0





#25

Ethyl Acetate

Concen: 8.634 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.00 min

Lab File: VL033071.D

Acq: 4 Jan 2019 17:06

Instrument :

MSVOA_L

ClientSampleId :

VL0104ABS01

Tot Ion: 43 Resp: 2293211

Ion Ratio Lower Upper

43 100

45 9.8 7.9 11.9

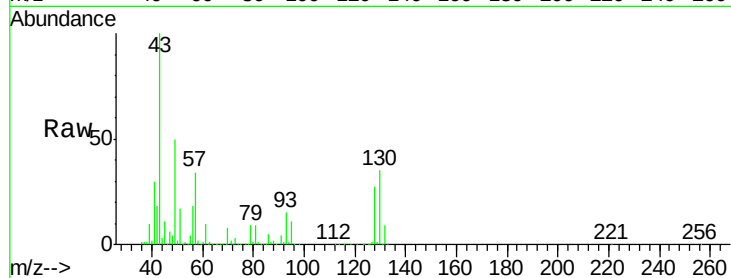
61 9.4 7.8 11.8

70 7.2 6.0 9.0

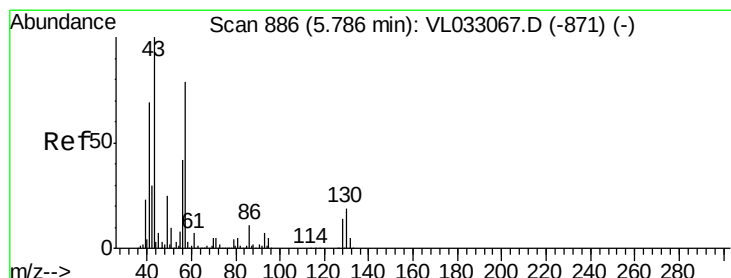
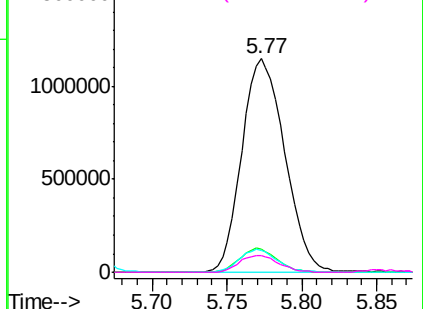
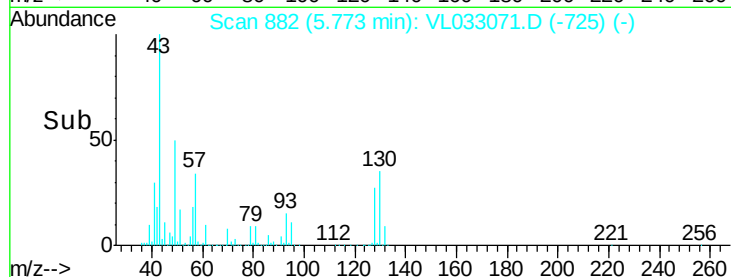
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 8.546 ppbv

RT: 5.78 min Scan# 885

Delta R.T. 0.00 min

Lab File: VL033071.D

Acq: 4 Jan 2019 17:06

Tgt Ion: 57 Resp: 1068716

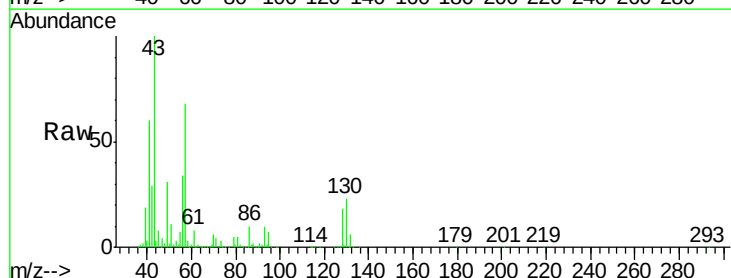
Ion Ratio Lower Upper

57 100

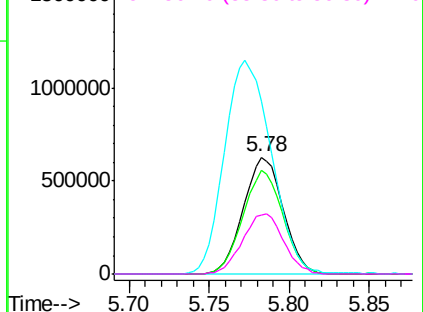
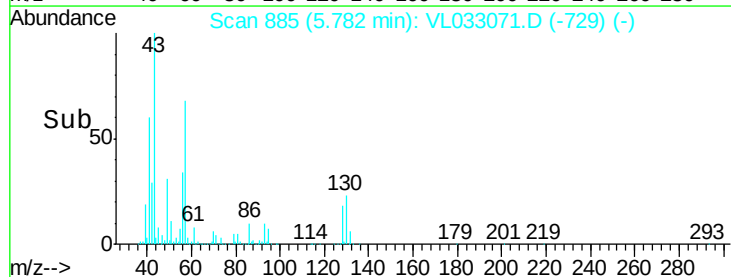
41 89.5 70.8 106.2

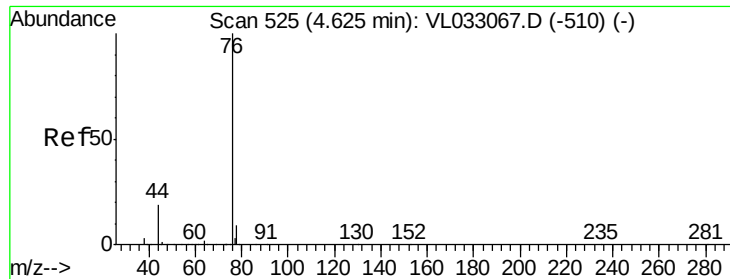
43 215.3 171.8 257.6

56 53.0 41.9 62.9



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 9.808 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.00 min

Lab File: VL033071.D

Acq: 4 Jan 2019 17:06

Instrument :

MSVOA_L

ClientSampleId :

VL0104ABS01

Tot Ion: 76 Resp: 1512788

Ion Ratio Lower Upper

76 100

44 18.2 13.9 20.9

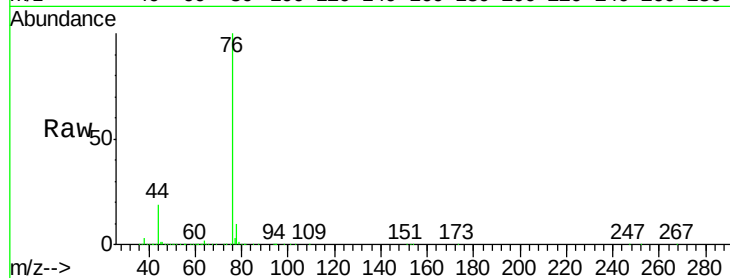
78 9.3 7.3 10.9

Manual Integrations

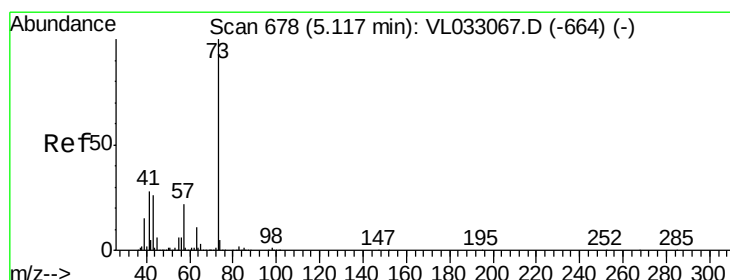
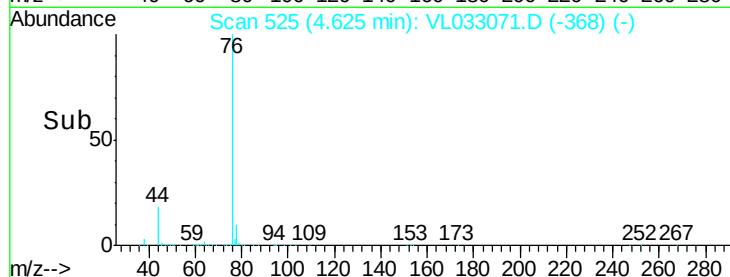
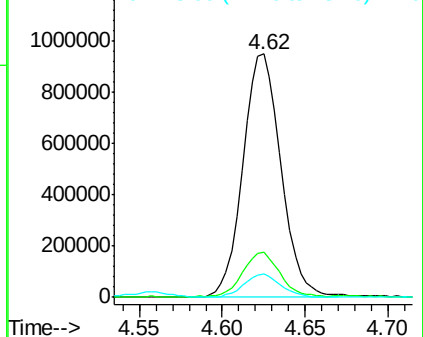
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1/8/2019 12:01:17 AM



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: 9.252 ppbv

RT: 5.11 min Scan# 677

Delta R.T. 0.00 min

Lab File: VL033071.D

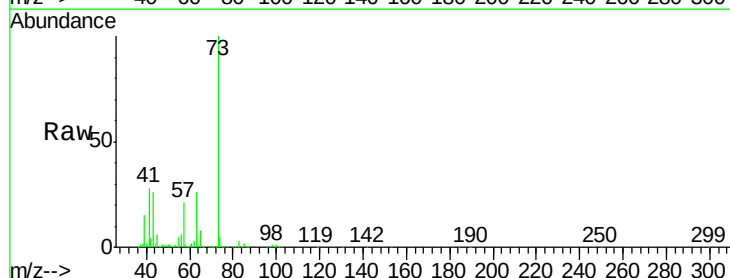
Acq: 4 Jan 2019 17:06

Tgt Ion: 73 Resp: 1806087

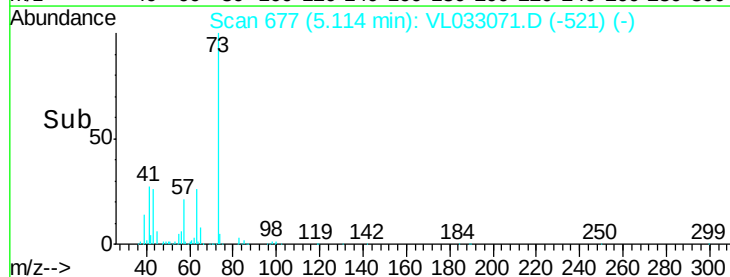
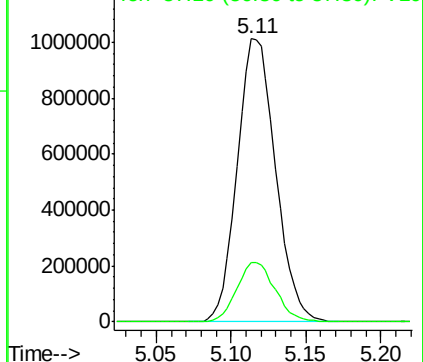
Ion Ratio Lower Upper

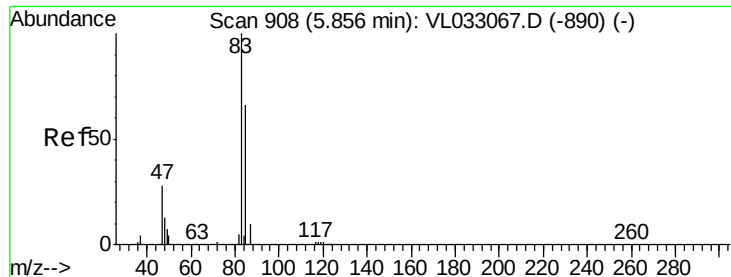
73 100

57 21.2 17.5 26.3



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





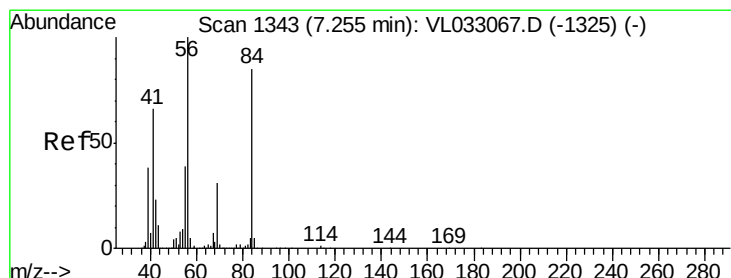
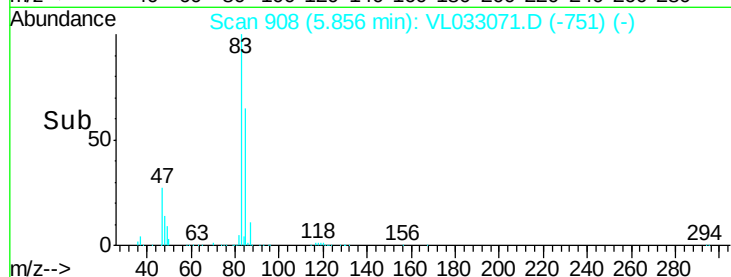
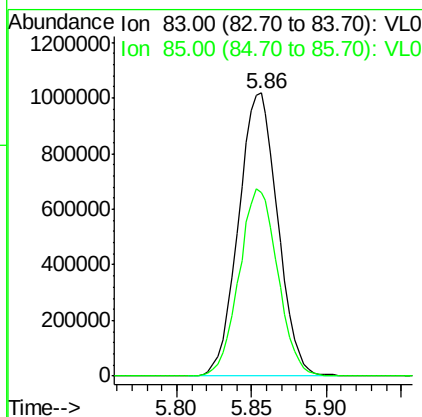
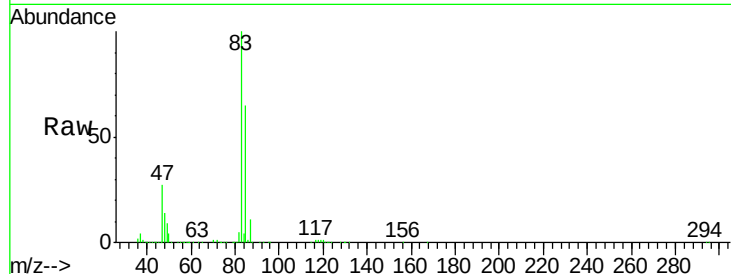
#29
Chloroform
Concen: 8.709 ppbv
RT: 5.86 min Scan# 908
Delta R.T. 0.00 min
Lab File: VL033071.D
Acq: 4 Jan 2019 17:06

Instrument :
MSVOA_L
ClientSampleId :
VL0104ABS01

Tot Ion: 83 Resp: 1856083
Ion Ratio Lower Upper
83 100
85 64.8 52.5 78.7

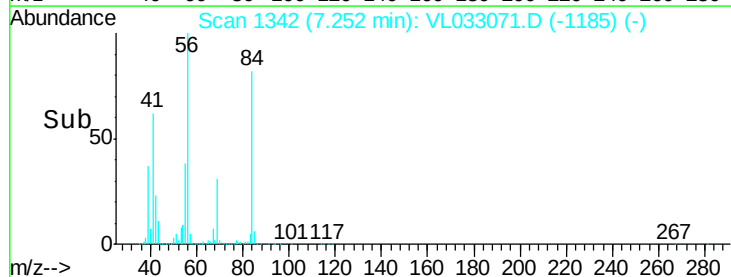
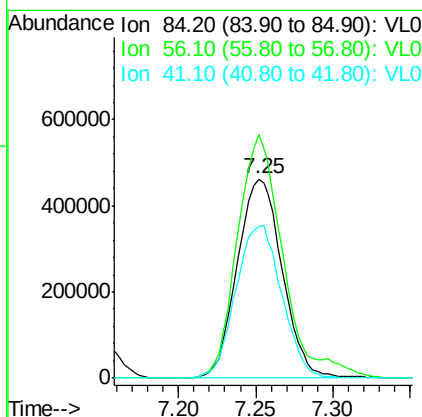
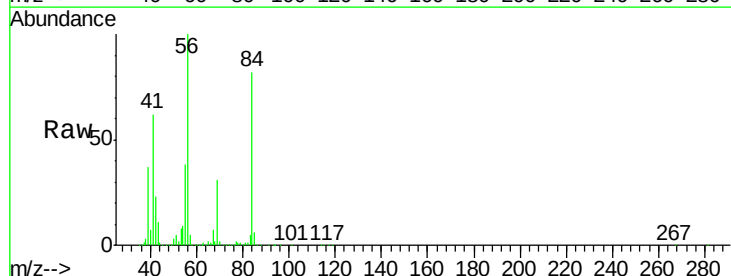
Manual Integrations
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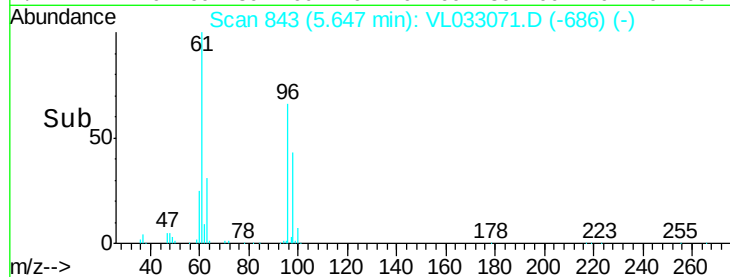
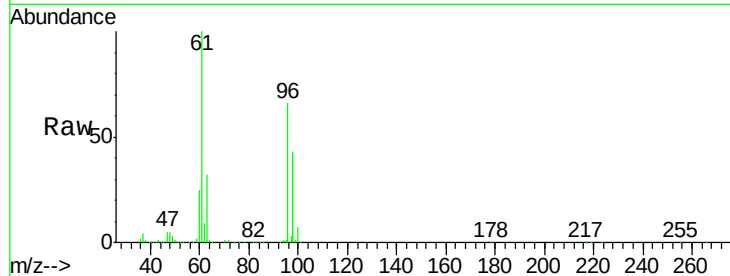
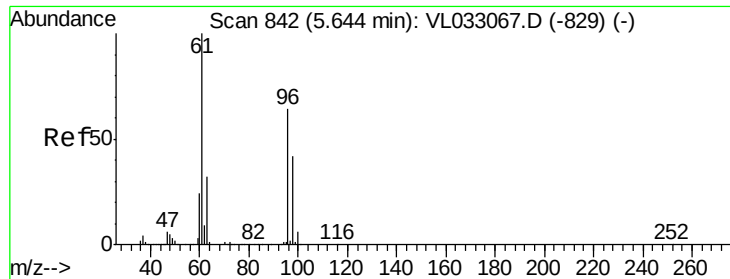
MMDadoda
1/8/2019 12:01:17 AM



#30
Cyclohexane
Concen: 9.945 ppbv
RT: 7.25 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VL033071.D
Acq: 4 Jan 2019 17:06

Tgt Ion: 84 Resp: 927333
Ion Ratio Lower Upper
84 100
56 125.7 101.8 152.6
41 78.9 63.2 94.8





#31

cis-1,2-Dichloroethene

Concen: 9.479 ppbv

RT: 5.65 min Scan# 843

Delta R.T. 0.00 min

Lab File: VL033071.D

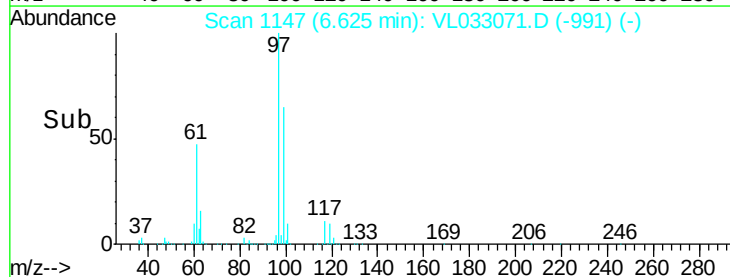
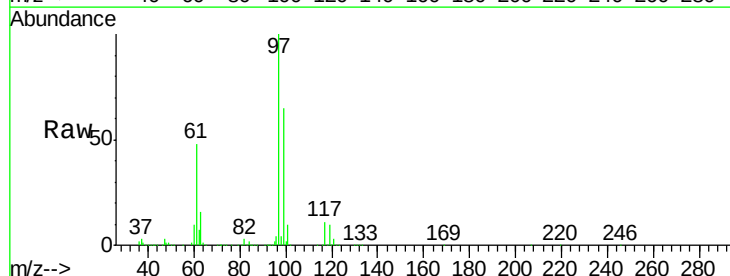
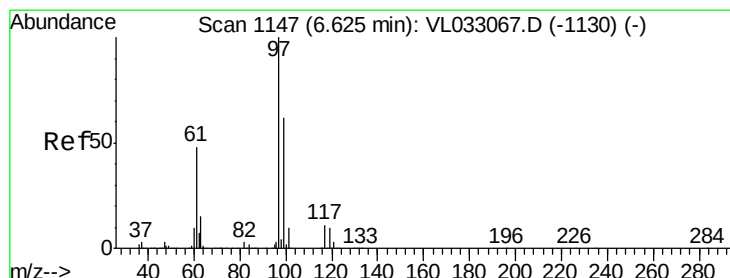
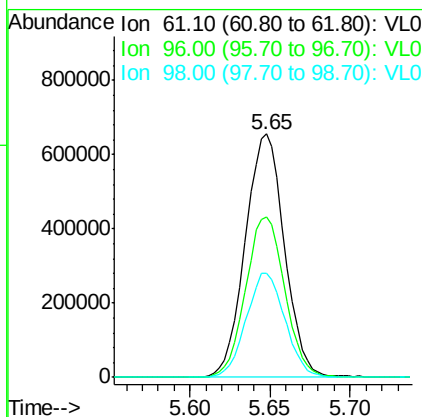
Acq: 4 Jan 2019 17:06

Tot Ion:	61	Resp:	1100791
Ion	Ratio	Lower	Upper
61	100		
96	65.6	52.8	79.2
98	43.0	33.8	50.6

Instrument :
MSVOA_L
ClientSampleId :
VL0104ABS01

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#32

1,1,1-Trichloroethane

Concen: 8.772 ppbv

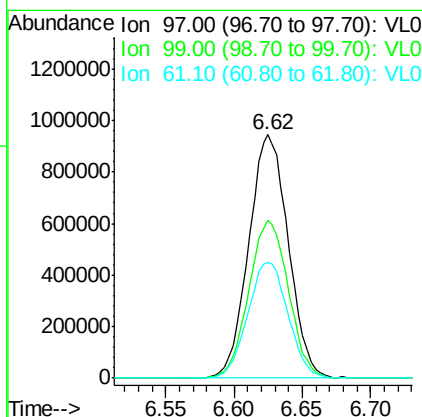
RT: 6.62 min Scan# 1147

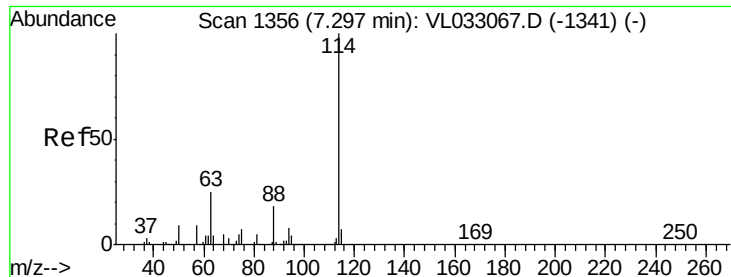
Delta R.T. 0.00 min

Lab File: VL033071.D

Acq: 4 Jan 2019 17:06

Tgt Ion:	97	Resp:	1897285
Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.1	76.7
61	48.6	38.3	57.5





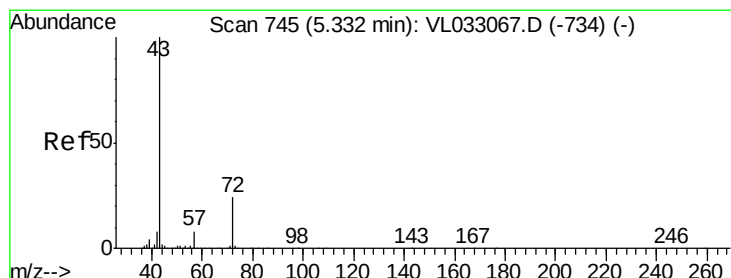
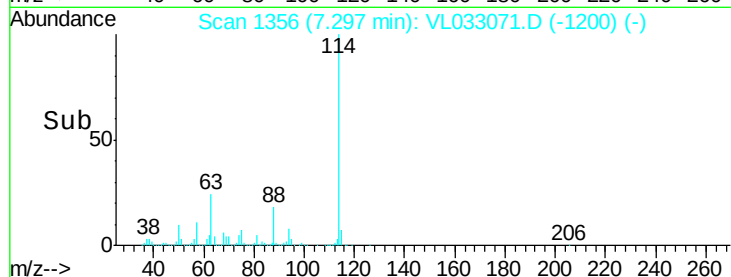
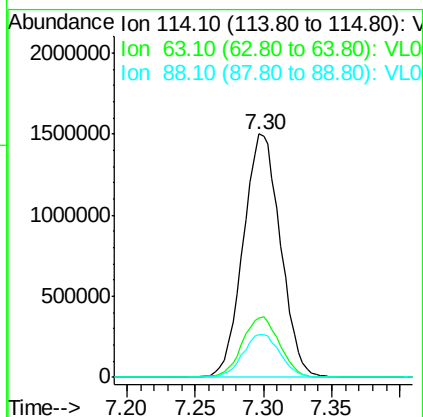
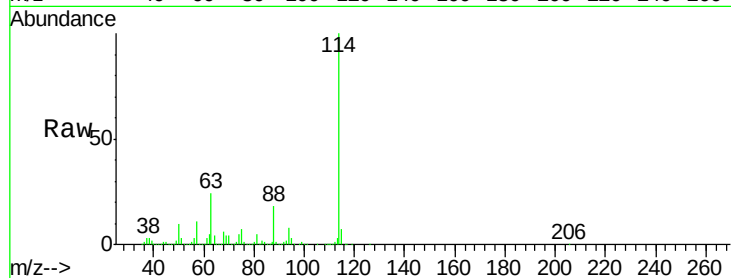
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. 0.00 min
 Lab File: VL033071.D
 Acq: 4 Jan 2019 17:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0104ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.3	20.1	30.1
88	17.7	14.0	21.0

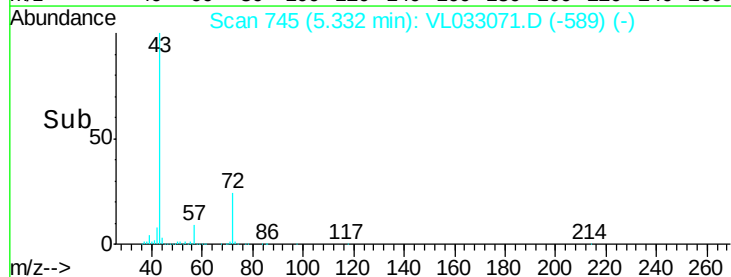
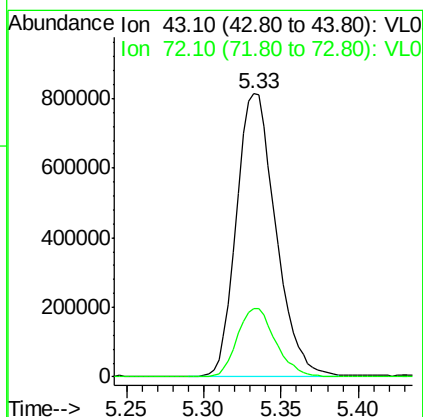
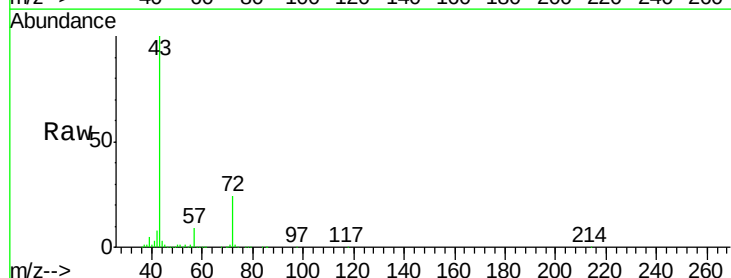
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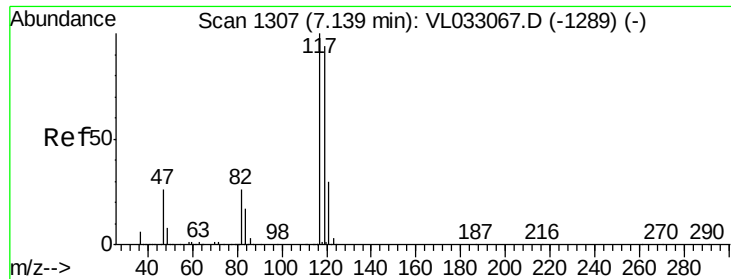
MMDadoda
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#34
 2-Butanone
 Concen: 8.699 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. 0.00 min
 Lab File: VL033071.D
 Acq: 4 Jan 2019 17:06

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.7	18.9	28.3





#35

Carbon Tetrachloride

Concen: 8.740 ppbv

RT: 7.14 min Scan# 1307

Delta R.T. 0.00 min

Lab File: VL033071.D

Acq: 4 Jan 2019 17:06

Instrument :

MSVOA_L

ClientSampleId :

VL0104ABS01

Tot Ion:117 Resp: 2131426

Ion Ratio Lower Upper

117 100

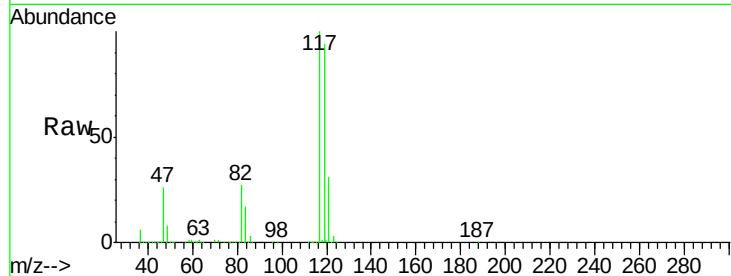
119 94.3 76.5 114.7

121 31.2 25.2 37.8

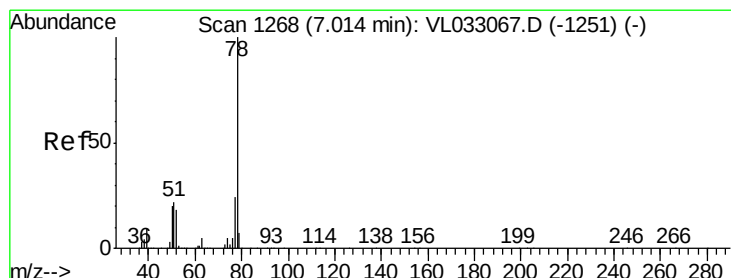
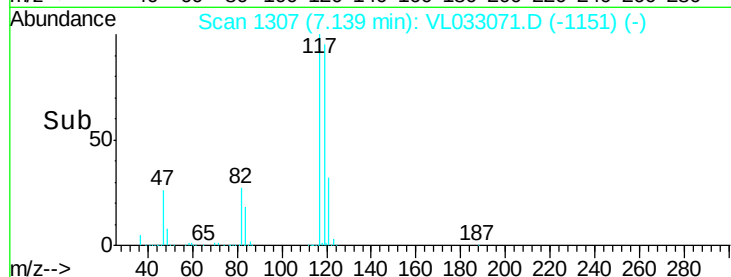
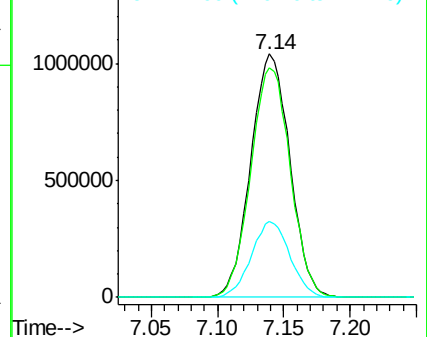
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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.322 ppbv

RT: 7.01 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VL033071.D

Acq: 4 Jan 2019 17:06

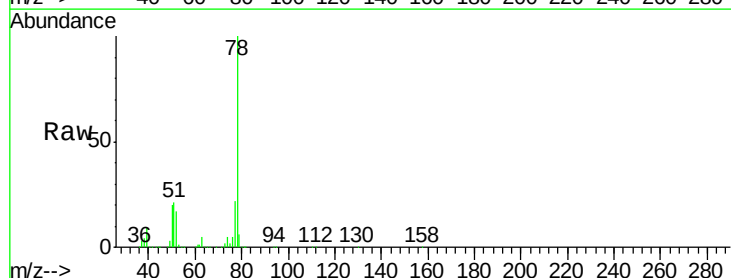
Tgt Ion: 78 Resp: 2168130

Ion Ratio Lower Upper

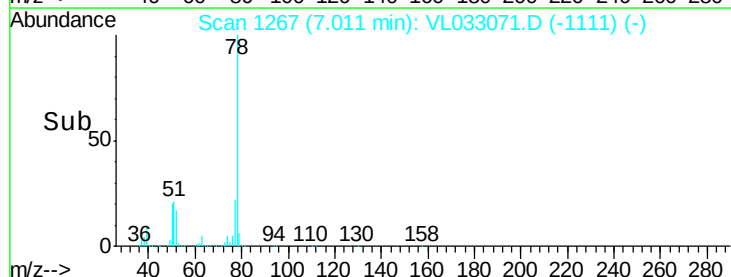
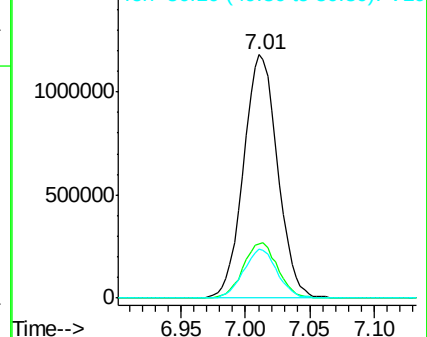
78 100

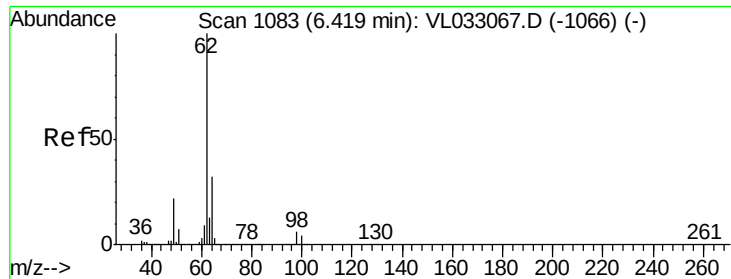
77 22.0 18.5 27.7

50 19.9 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





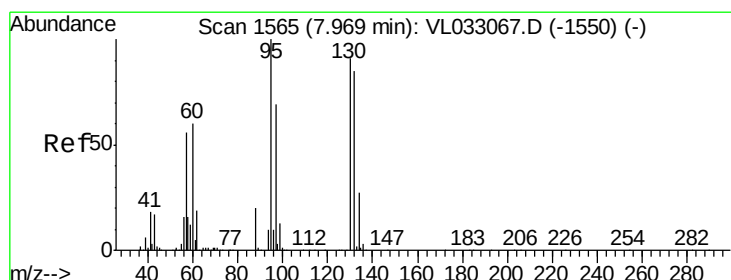
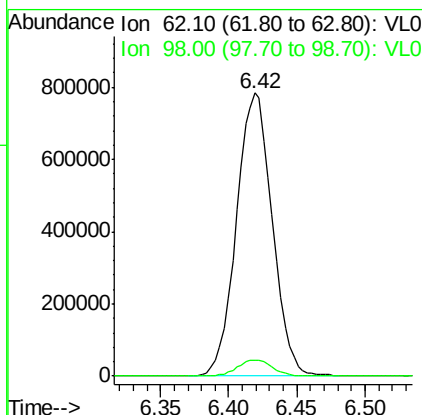
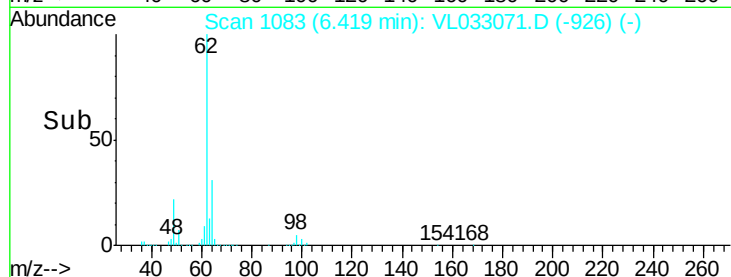
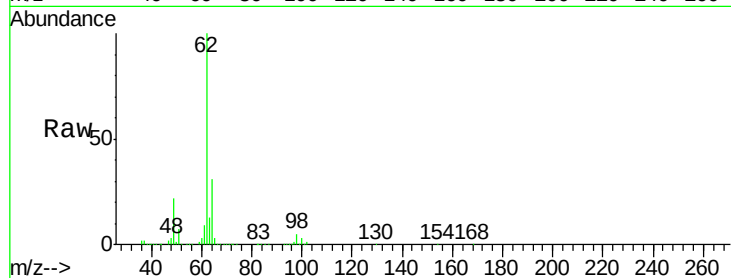
#37
 1,2-Dichloroethane
 Concen: 8.776 ppbv
 RT: 6.42 min Scan# 1083
 Delta R.T. 0.00 min
 Lab File: VL033071.D
 Acq: 4 Jan 2019 17:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0104ABS01

Tot Ion: 62 Resp: 1425014
 Ion Ratio Lower Upper
 62 100
 98 5.7 4.6 7.0

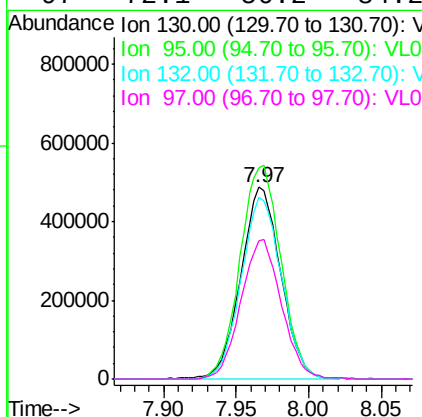
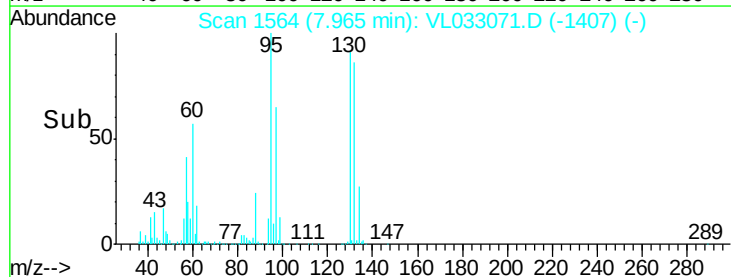
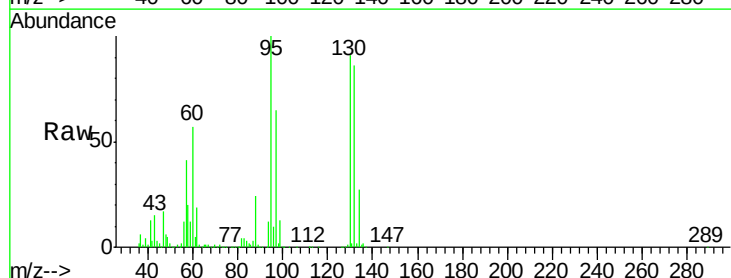
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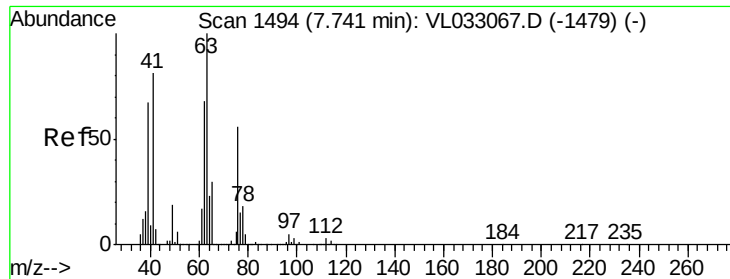
MMDadoda
 1/8/2019 12:01:17 AM



#38
 Trichloroethene
 Concen: 9.657 ppbv
 RT: 7.97 min Scan# 1564
 Delta R.T. 0.00 min
 Lab File: VL033071.D
 Acq: 4 Jan 2019 17:06

Tgt Ion: 130 Resp: 923928
 Ion Ratio Lower Upper
 130 100
 95 110.7 88.6 132.8
 132 95.3 74.2 111.2
 97 72.1 56.2 84.2





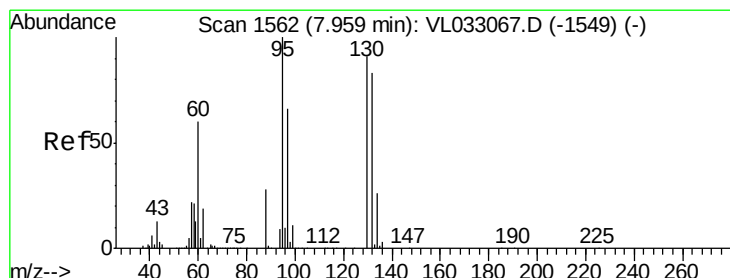
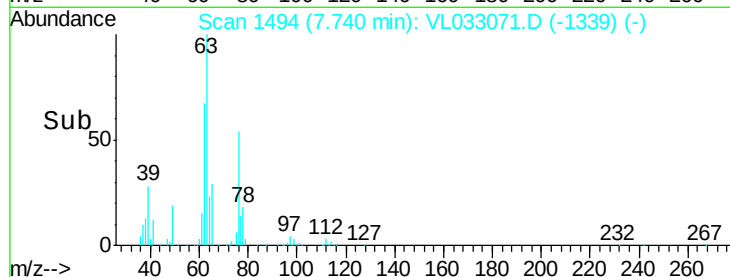
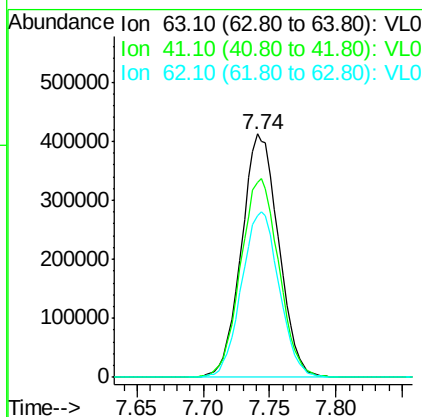
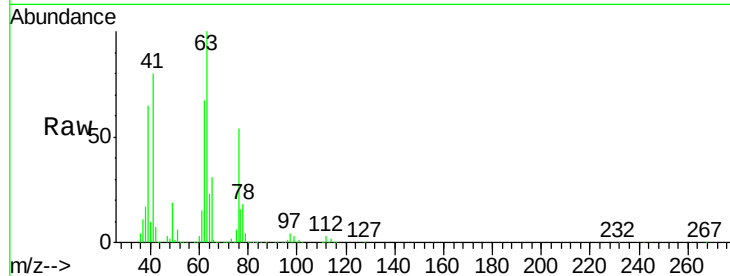
#39
 1,2-Dichloropropane
 Concen: 9.197 ppbv
 RT: 7.74 min Scan# 1494
 Delta R.T. -0.00 min
 Lab File: VL033071.D
 Acq: 4 Jan 2019 17:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0104ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	79.9	61.9	92.9
62	66.6	55.8	83.6

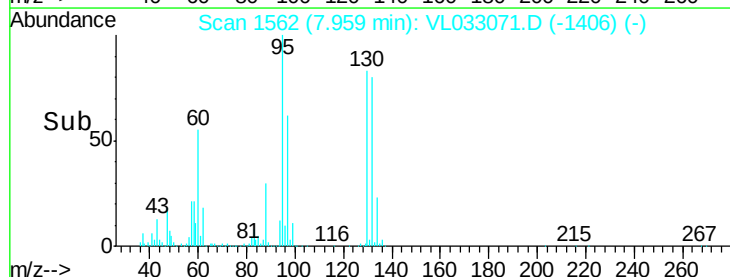
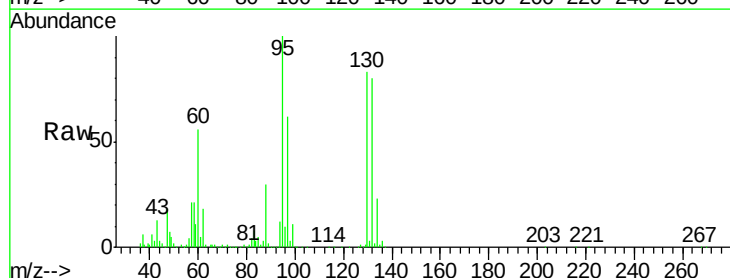
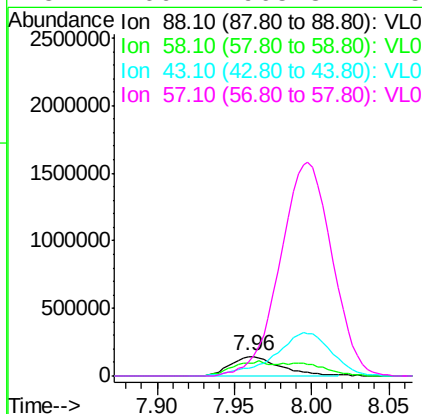
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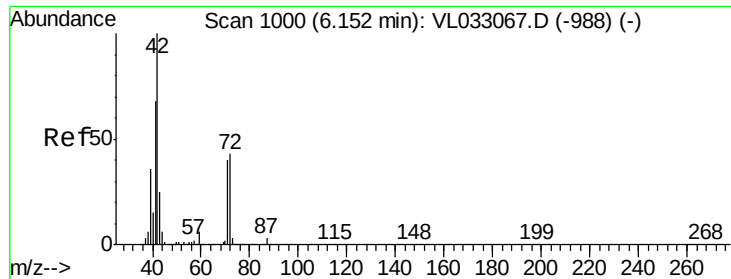
MMDadoda
 1/8/2019 12:01:17 AM



#40
 1,4-Dioxane
 Concen: 9.553 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. 0.00 min
 Lab File: VL033071.D
 Acq: 4 Jan 2019 17:06

Tgt Ion	Ratio	Lower	Upper
88	100		
58	125.0	101.9	152.9
43	262.0	212.6	319.0
57	1166.4	963.8	1445.6





#41

Tetrahydrofuran

Concen: 9.615 ppbv

RT: 6.15 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VL033071.D

Acq: 4 Jan 2019 17:06

Instrument :

MSVOA_L

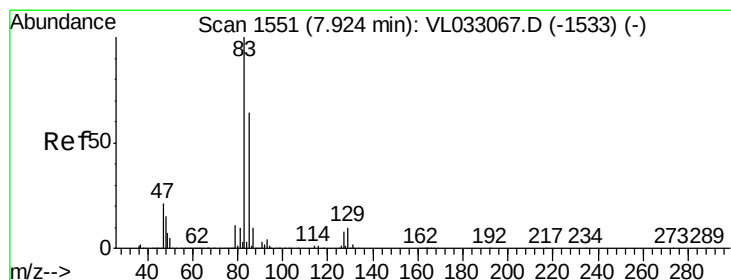
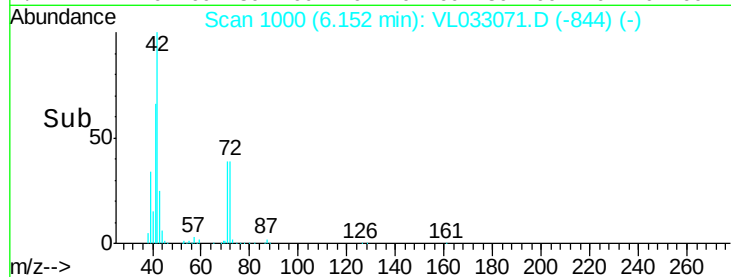
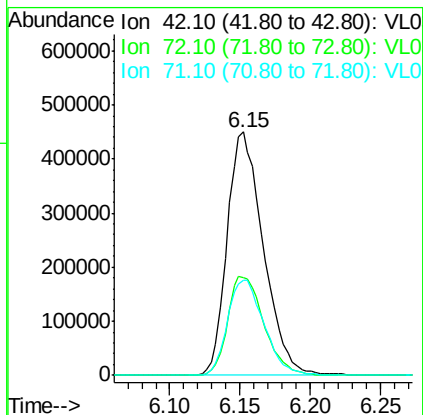
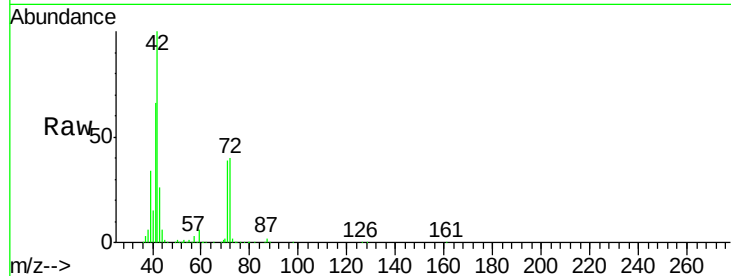
ClientSampleId :

VL0104ABS01

Tot Ion:	42	Resp:	807339
Ion	Ratio	Lower	Upper
42	100		
72	40.9	32.9	49.3
71	39.6	31.8	47.6

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1/8/2019 12:01:17 AM



#42

Bromodichloromethane

Concen: 9.057 ppbv

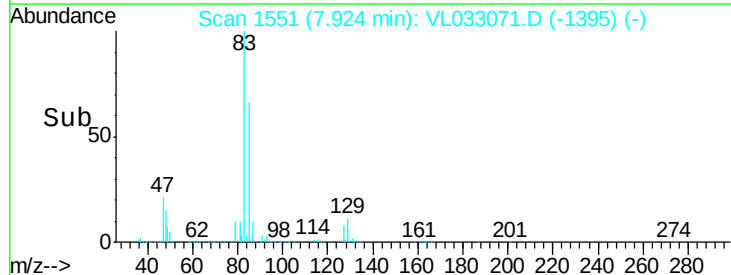
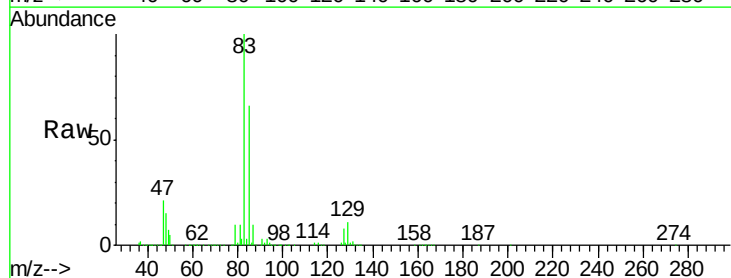
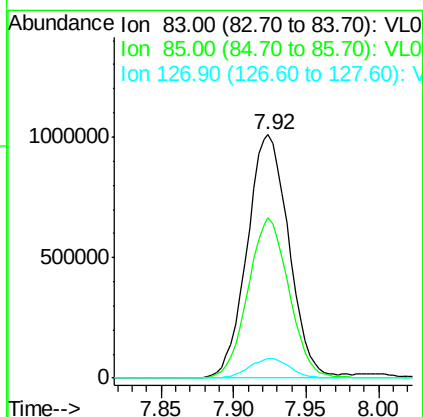
RT: 7.92 min Scan# 1551

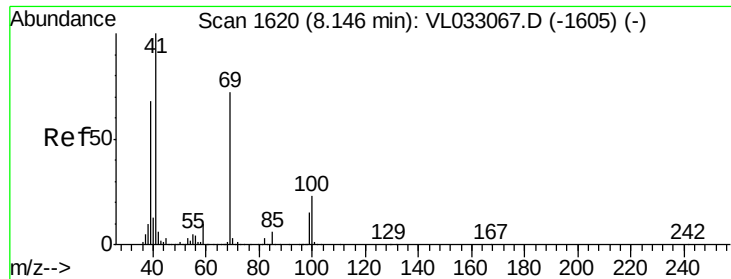
Delta R.T. 0.00 min

Lab File: VL033071.D

Acq: 4 Jan 2019 17:06

Tgt Ion:	83	Resp:	2020390
Ion	Ratio	Lower	Upper
83	100		
85	65.8	51.0	76.4
127	8.1	6.5	9.7





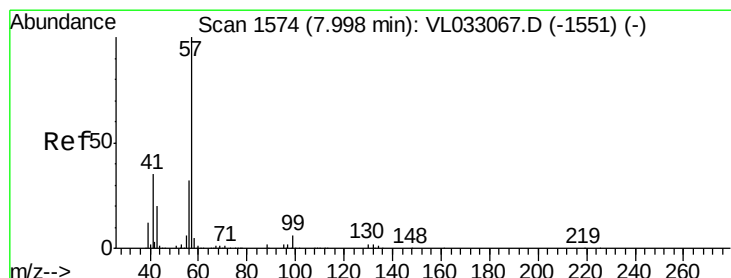
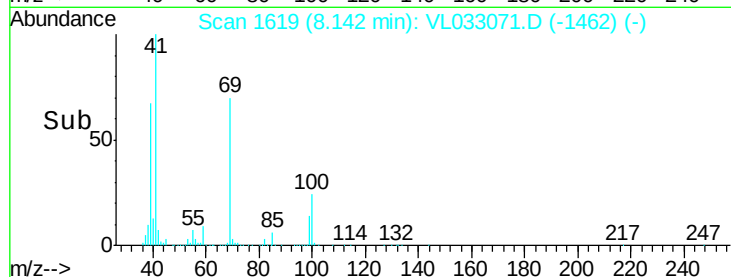
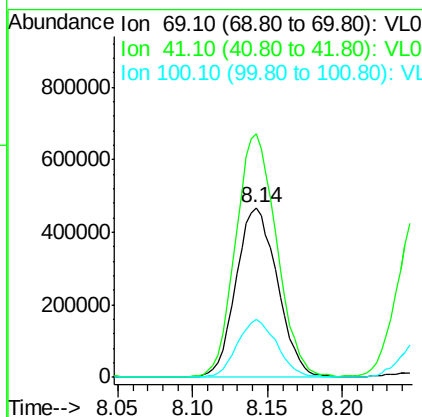
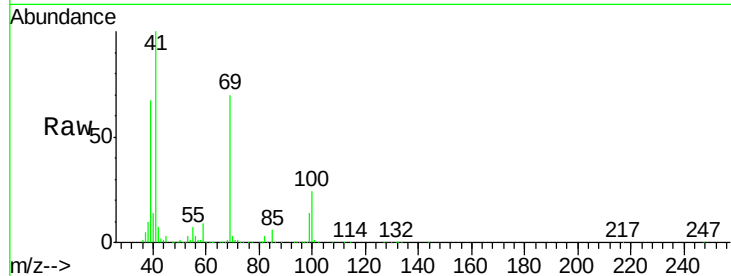
#43
Methyl Methacrylate
Concen: 10.324 ppbv
RT: 8.14 min Scan# 1619
Delta R.T. 0.00 min
Lab File: VL033071.D
Acq: 4 Jan 2019 17:06

Instrument :
MSVOA_L
ClientSampleId :
VL0104ABS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
69	100		900952		
41	141.8	114.0	171.0		
100	32.8	26.3	39.5		

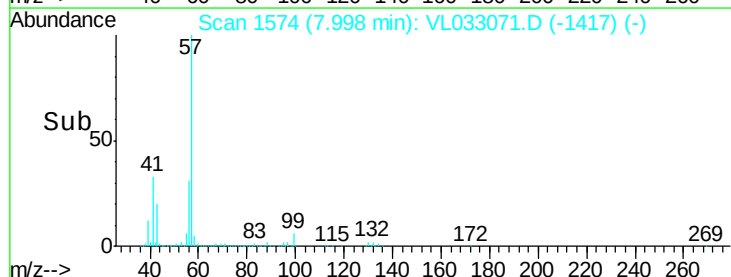
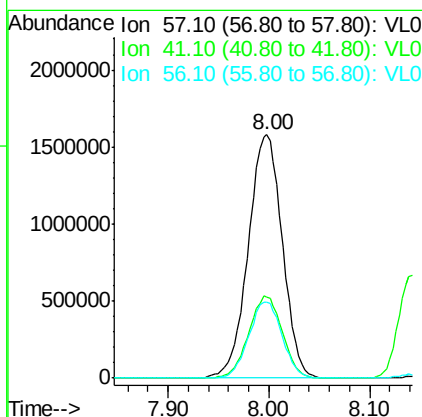
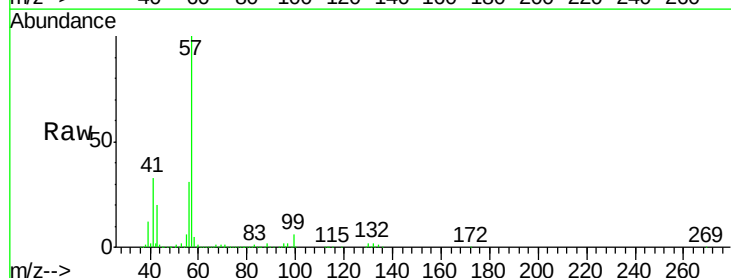
Manual Integrations
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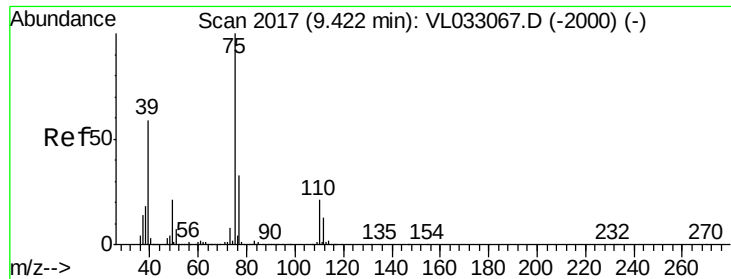
MMDadoda
1/8/2019 12:01:17 AM



#44
2,2,4-Trimethylpentane
Concen: 9.376 ppbv
RT: 8.00 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VL033071.D
Acq: 4 Jan 2019 17:06

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100		3692764		
41	33.3	26.2	39.2		
56	30.6	24.9	37.3		





#45

t-1,3-Dichloropropene

Concen: 11.227 ppbv

RT: 9.42 min Scan# 2017

Delta R.T. 0.00 min

Lab File: VL033071.D

Acq: 4 Jan 2019 17:06

Instrument :

MSVOA_L

ClientSampleId :

VL0104ABS01

Tot Ion: 75 Resp: 1219580

Ion Ratio Lower Upper

75 100

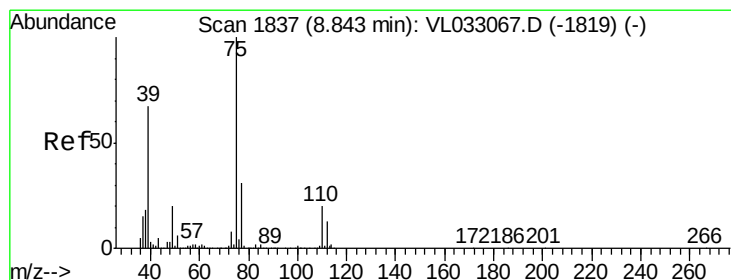
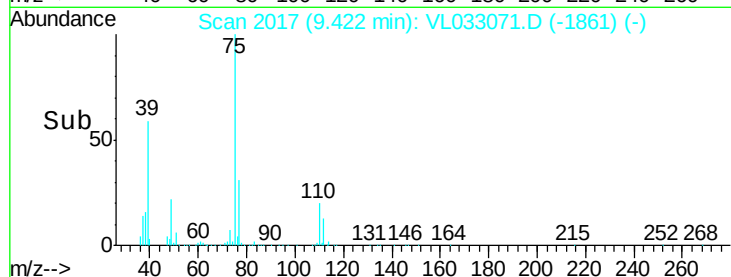
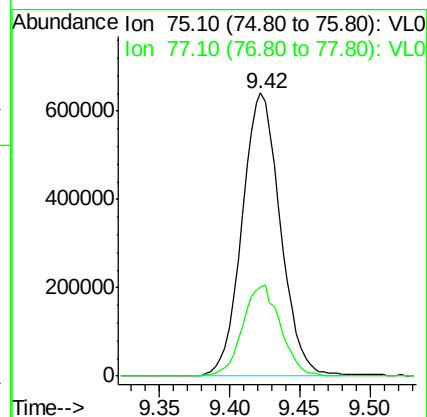
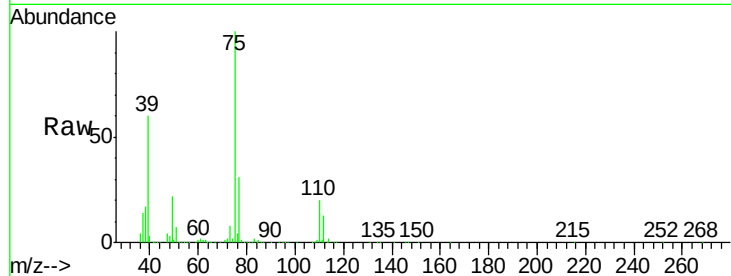
77 31.3 24.8 37.2

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#46

cis-1,3-Dichloropropene

Concen: 11.355 ppbv

RT: 8.84 min Scan# 1837

Delta R.T. 0.00 min

Lab File: VL033071.D

Acq: 4 Jan 2019 17:06

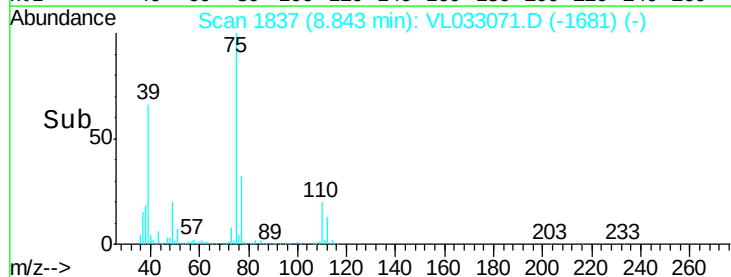
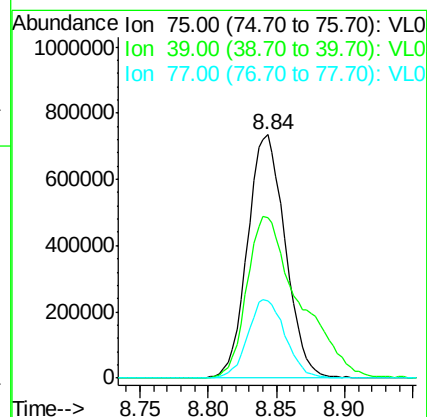
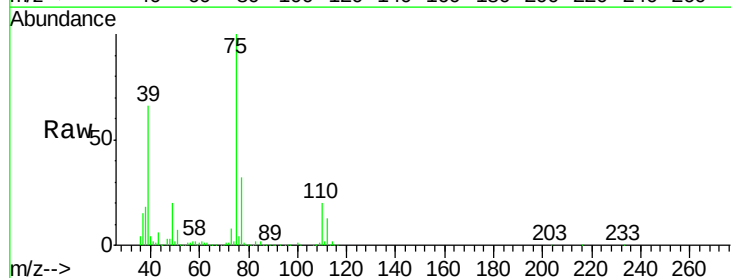
Tgt Ion: 75 Resp: 1407844

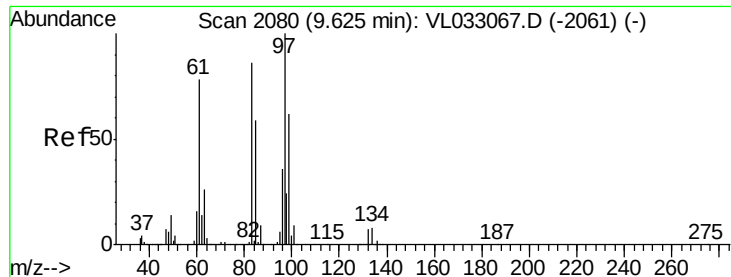
Ion Ratio Lower Upper

75 100

39 66.0 51.3 76.9

77 31.9 25.5 38.3





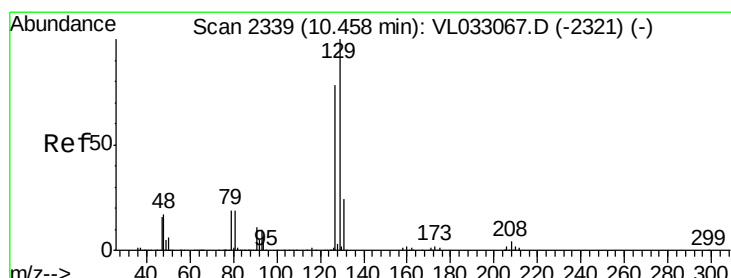
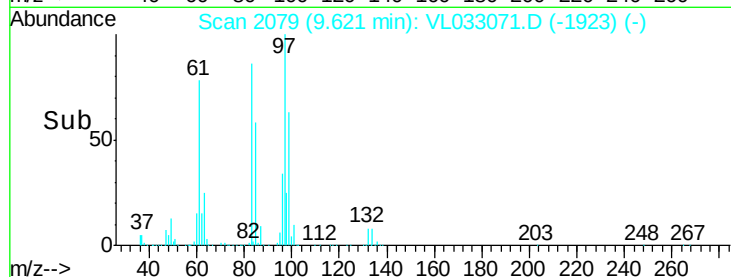
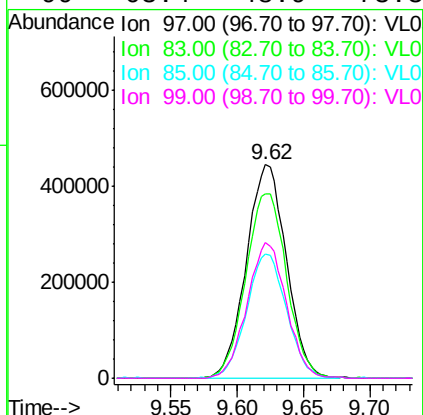
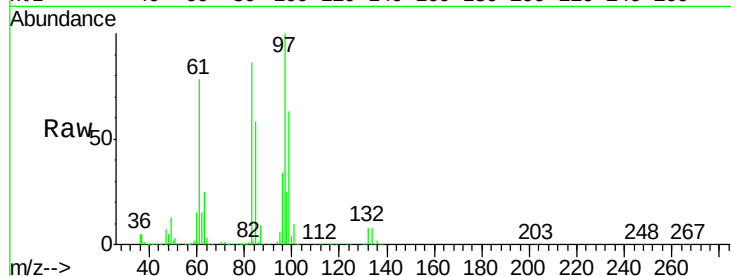
#47
 1,1,2-Trichloroethane
 Concen: 9.182 ppbv
 RT: 9.62 min Scan# 2079
 Delta R.T. 0.00 min
 Lab File: VL033071.D
 Acq: 4 Jan 2019 17:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0104ABS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	86.1	69.4	104.2
85	57.8	44.2	66.2
99	63.4	48.9	73.3

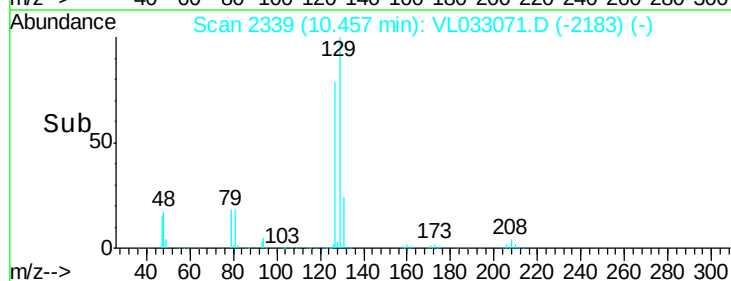
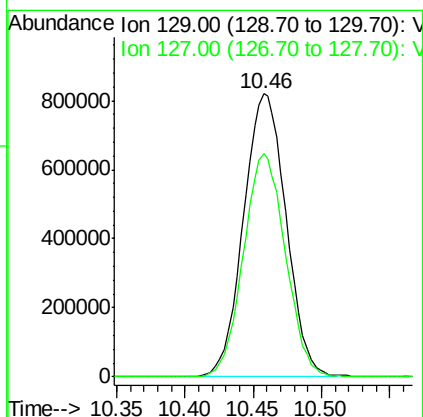
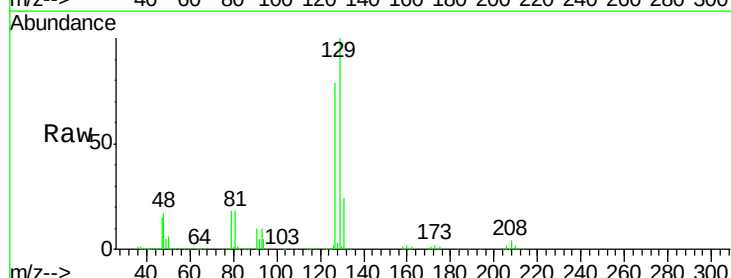
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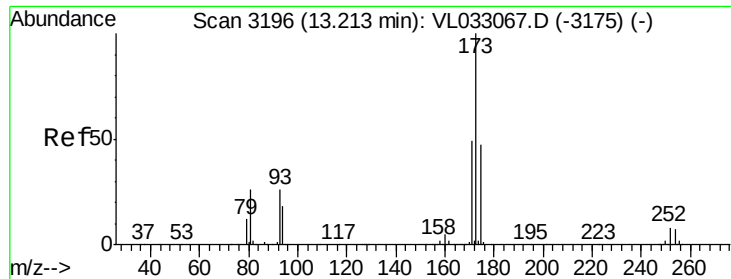
MMDadoda
 1/8/2019 12:01:17 AM



#48
 Dibromochloromethane
 Concen: 9.836 ppbv
 RT: 10.46 min Scan# 2339
 Delta R.T. 0.00 min
 Lab File: VL033071.D
 Acq: 4 Jan 2019 17:06

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.0	39.1	117.3





#49

Bromoform

Concen: 9.715 ppbv

RT: 13.21 min Scan# 3195

Delta R.T. 0.00 min

Lab File: VL033071.D

Acq: 4 Jan 2019 17:06

Instrument :

MSVOA_L

ClientSampleId :

VL0104ABS01

Tot Ion:173 Resp: 1530870

Ion Ratio Lower Upper

173 100

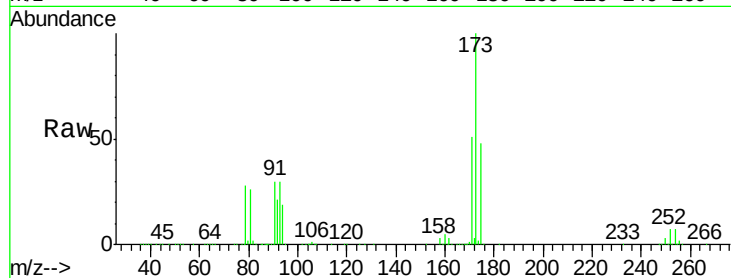
175 48.5 39.4 59.2

171 51.7 42.1 63.1

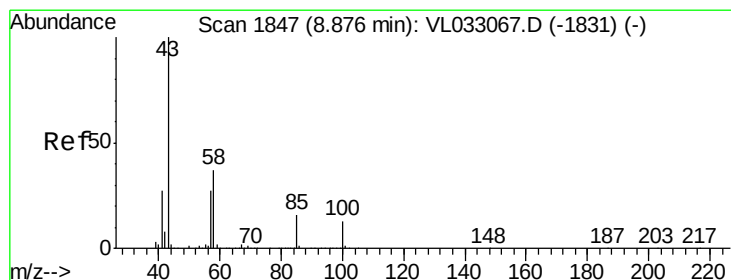
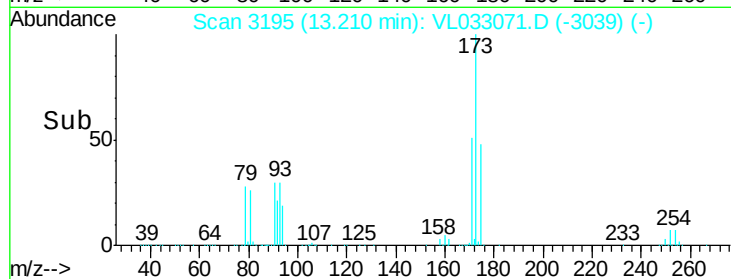
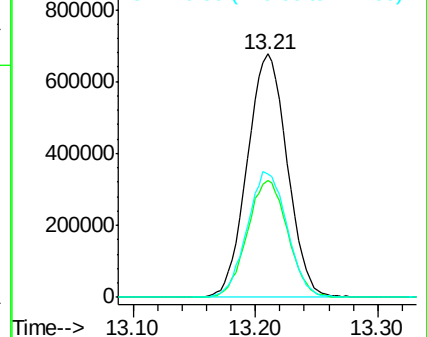
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Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.149 ppbv

RT: 8.87 min Scan# 1846

Delta R.T. 0.00 min

Lab File: VL033071.D

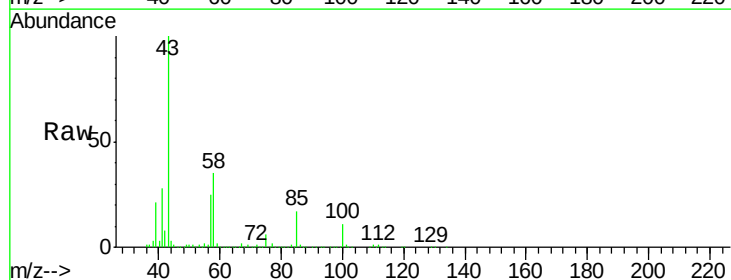
Acq: 4 Jan 2019 17:06

Tgt Ion: 43 Resp: 2121500

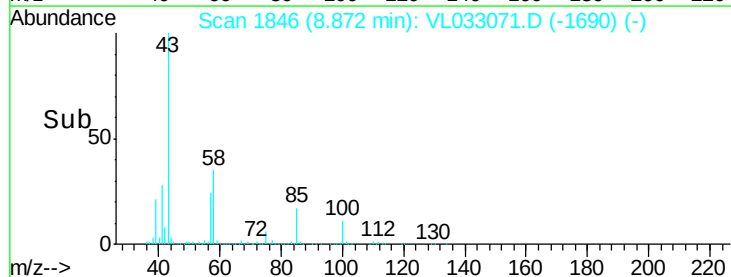
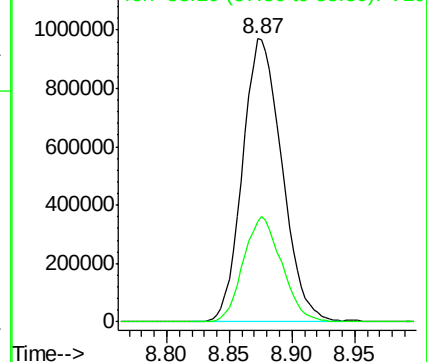
Ion Ratio Lower Upper

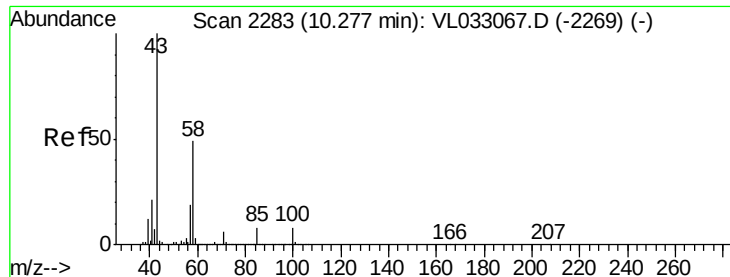
43 100

58 36.4 28.9 43.3



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





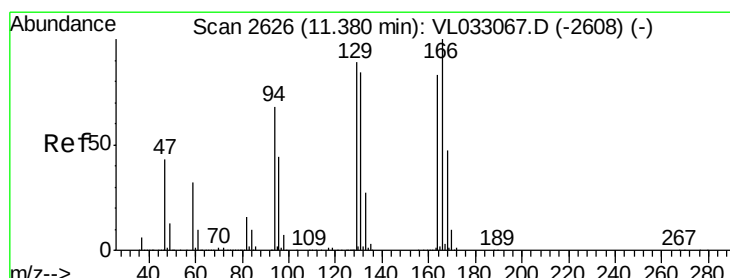
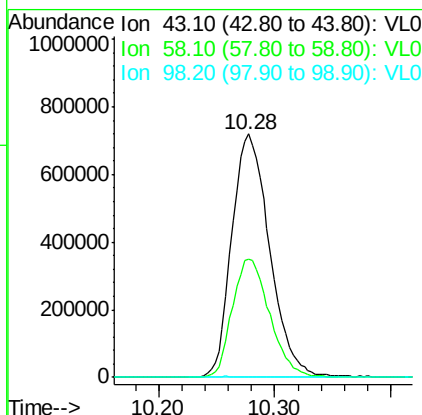
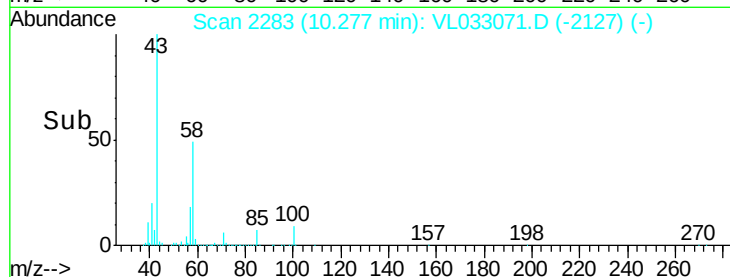
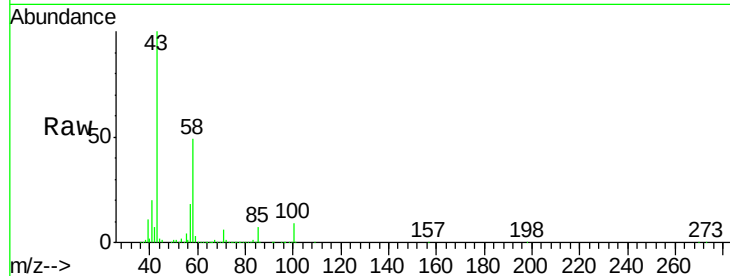
#51
2-Hexanone
Concen: 10.735 ppbv
RT: 10.28 min Scan# 2283
Delta R.T. 0.00 min
Lab File: VL033071.D
Acq: 4 Jan 2019 17:06

Instrument :
MSVOA_L
ClientSampleId :
VL0104ABS01

Tot Ion: 43 Resp: 1623577
Ion Ratio Lower Upper
43 100
58 48.4 39.0 58.6
98 0.2 0.4 0.6#

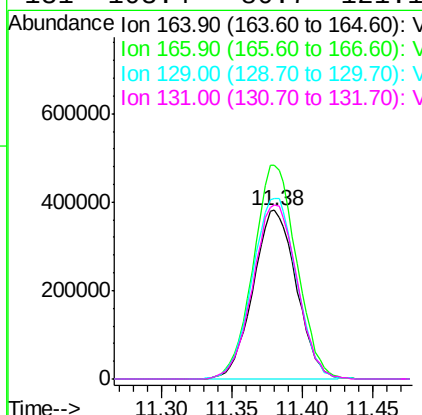
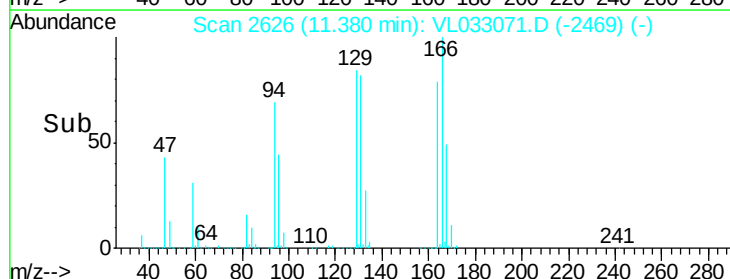
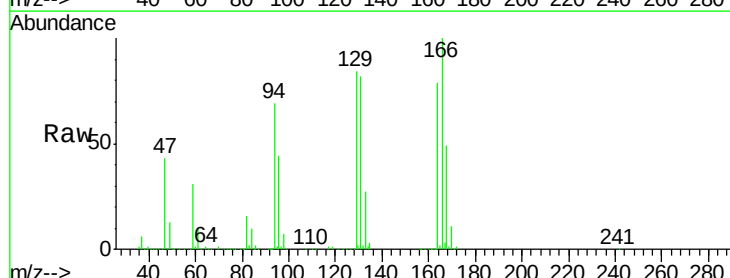
Manual Integrations
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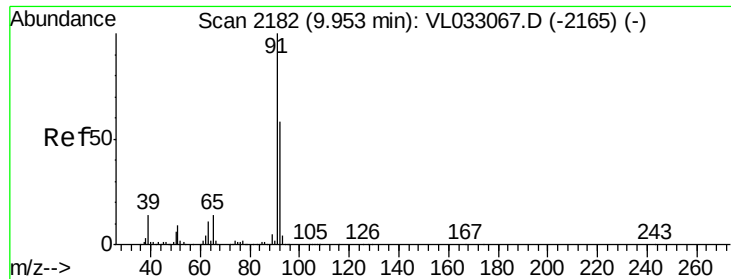
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#52
Tetrachloroethene
Concen: 9.912 ppbv
RT: 11.38 min Scan# 2626
Delta R.T. 0.00 min
Lab File: VL033071.D
Acq: 4 Jan 2019 17:06

Tgt Ion: 164 Resp: 814834
Ion Ratio Lower Upper
164 100
166 126.7 100.8 151.2
129 106.8 84.6 126.8
131 103.4 80.7 121.1





#53

Toluene

Concen: 10.402 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. 0.00 min

Lab File: VL033071.D

Acq: 4 Jan 2019 17:06

Instrument :

MSVOA_L

ClientSampleId :

VL0104ABS01

Tot Ion: 91 Resp: 2592591

Ion Ratio Lower Upper

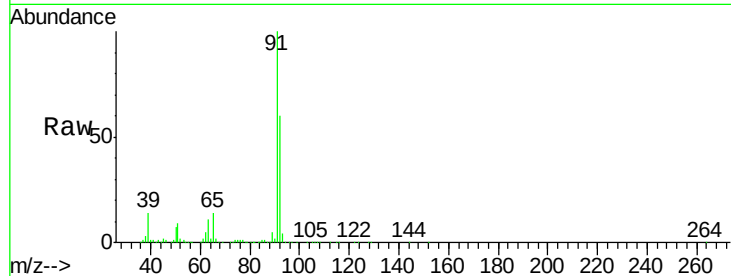
91 100

92 59.6 47.7 71.5

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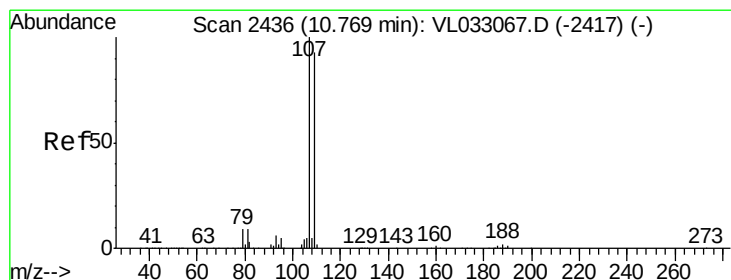
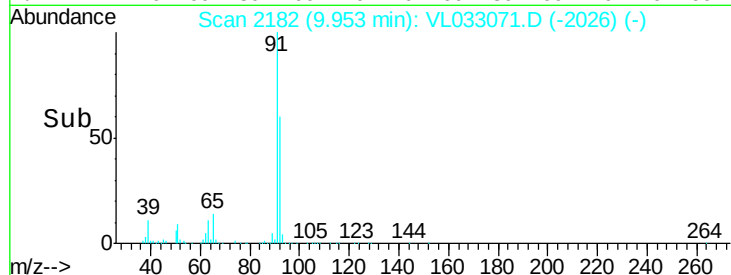
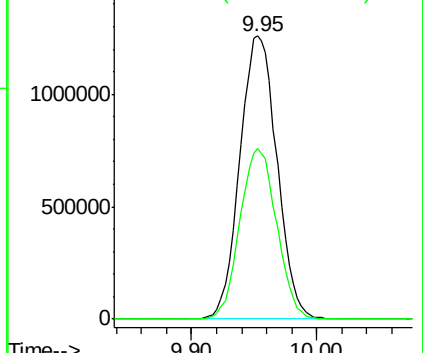
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 10.085 ppbv

RT: 10.77 min Scan# 2435

Delta R.T. 0.00 min

Lab File: VL033071.D

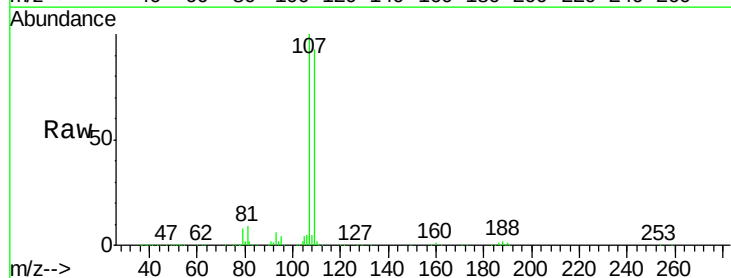
Acq: 4 Jan 2019 17:06

Tgt Ion: 107 Resp: 1483261

Ion Ratio Lower Upper

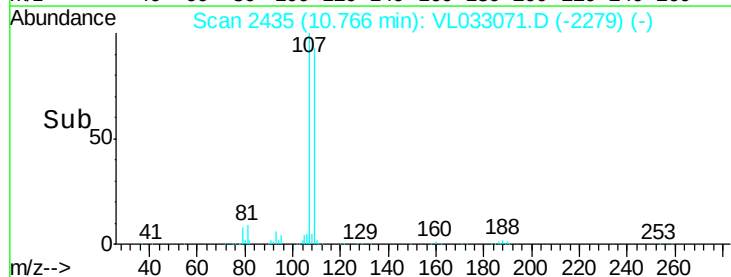
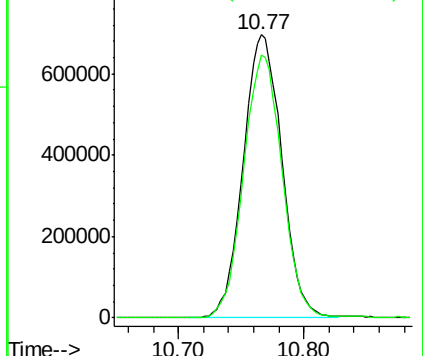
107 100

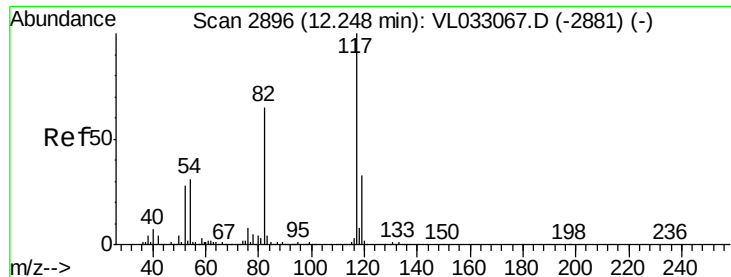
109 93.1 74.9 112.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





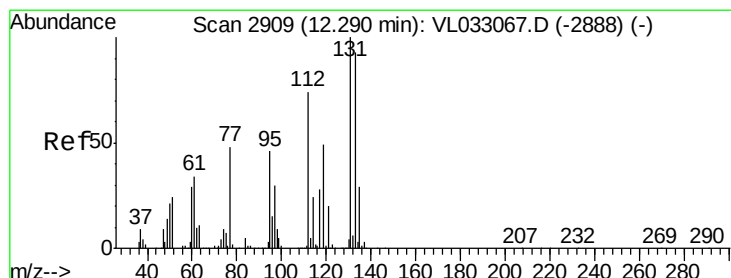
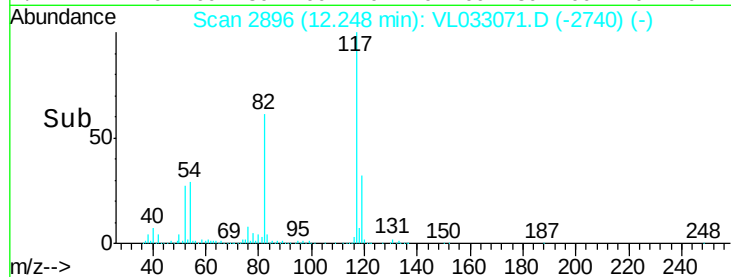
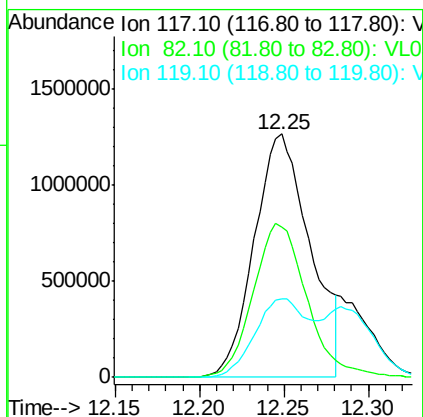
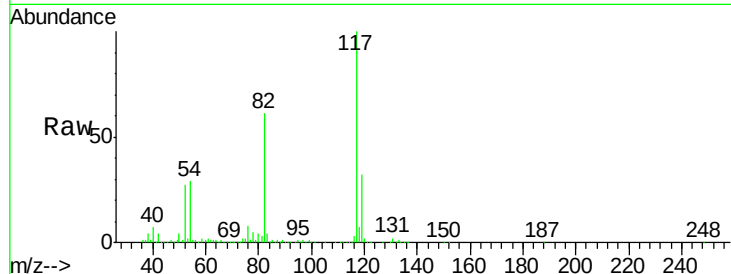
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.25 min Scan# 2896
Delta R.T. 0.00 min
Lab File: VL033071.D
Acq: 4 Jan 2019 17:06

Instrument :
MSVOA_L
ClientSampleId :
VL0104ABS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.1	48.9	73.3
119	30.2	24.6	37.0

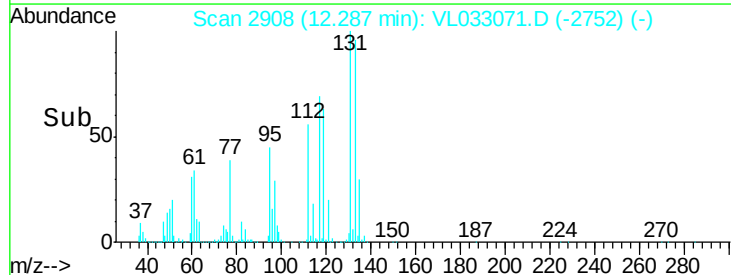
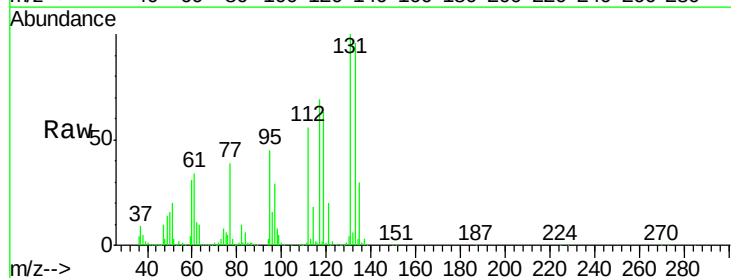
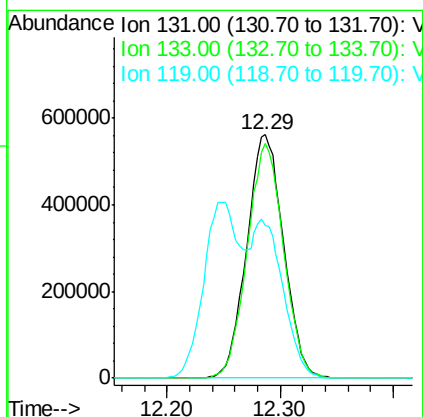
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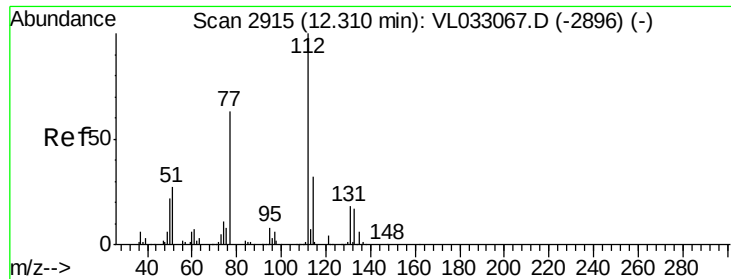
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.412 ppbv
RT: 12.29 min Scan# 2908
Delta R.T. 0.00 min
Lab File: VL033071.D
Acq: 4 Jan 2019 17:06

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.1	76.0	114.0
119	55.8	44.2	66.2





#57

Chlorobenzene

Concen: 8.413 ppbv

RT: 12.31 min Scan# 2915

Delta R.T. 0.00 min

Lab File: VL033071.D

Acq: 4 Jan 2019 17:06

Instrument :

MSVOA_L

ClientSampleId :

VL0104ABS01

Tot Ion:112 Resp: 2047553

Ion Ratio Lower Upper

112 100

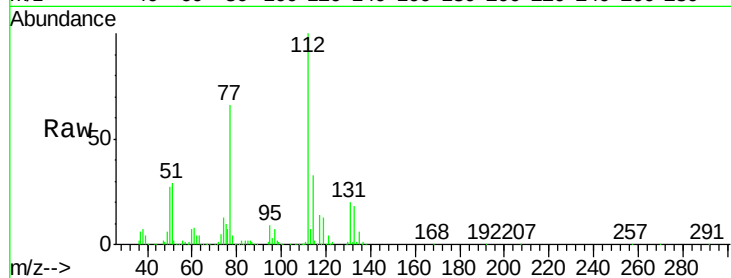
77 66.0 53.4 80.0

114 32.7 30.0 36.6

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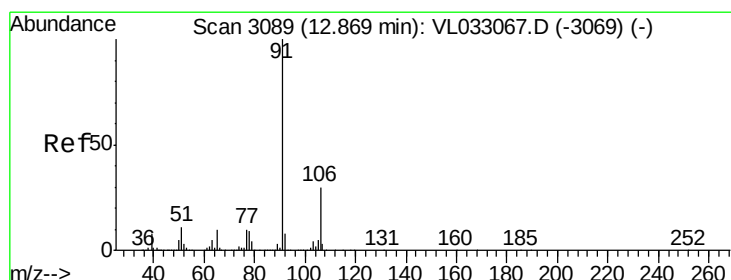
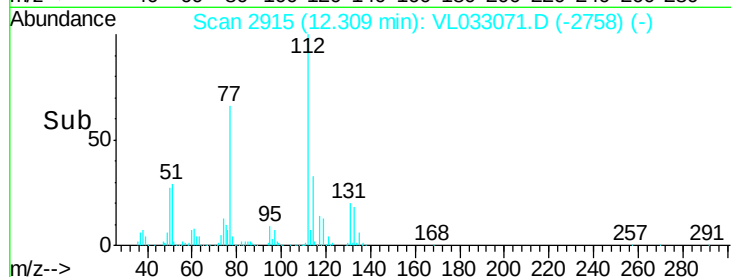
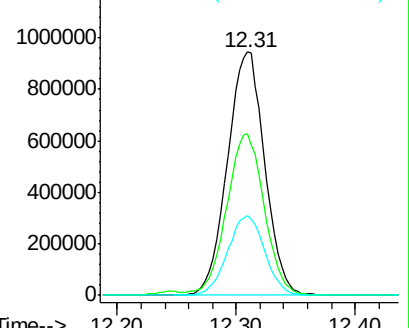
1/8/2019 12:01:17 AM



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: 9.726 ppbv

RT: 12.87 min Scan# 3090

Delta R.T. 0.00 min

Lab File: VL033071.D

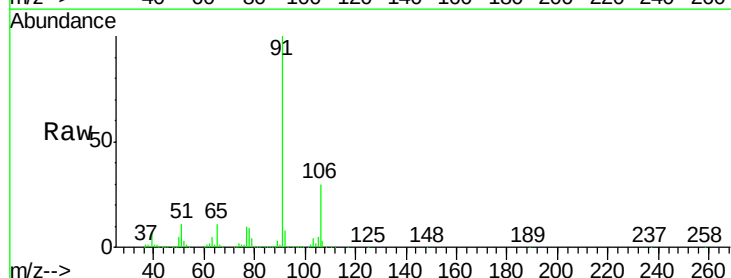
Acq: 4 Jan 2019 17:06

Tgt Ion: 91 Resp: 3580719

Ion Ratio Lower Upper

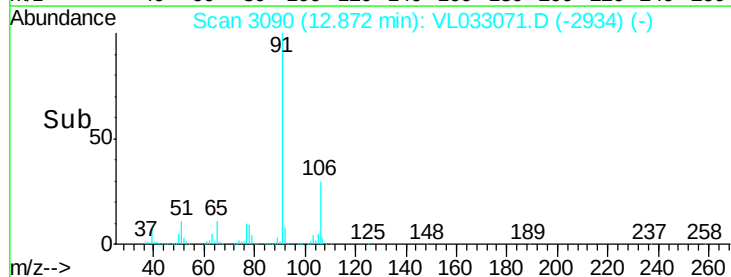
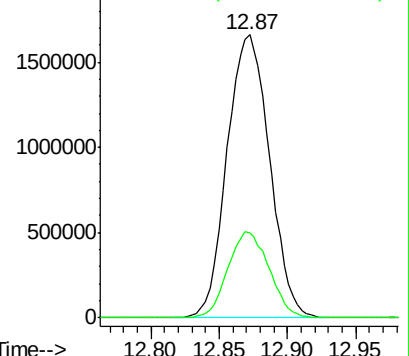
91 100

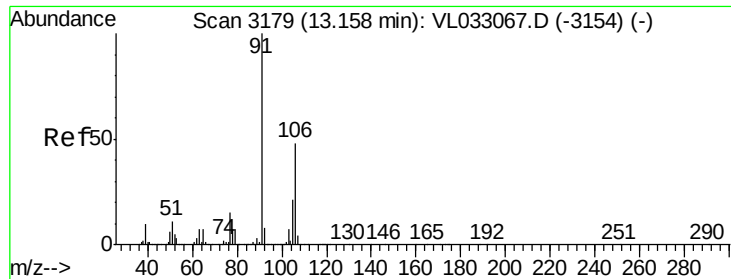
106 30.0 24.3 36.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





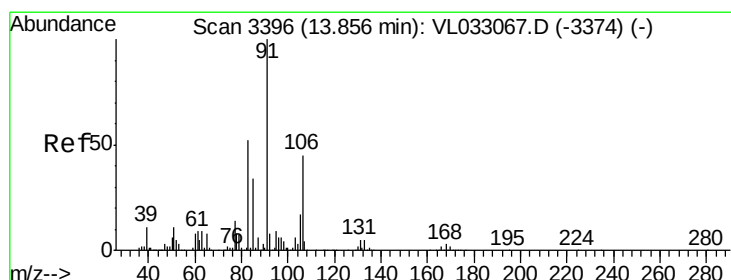
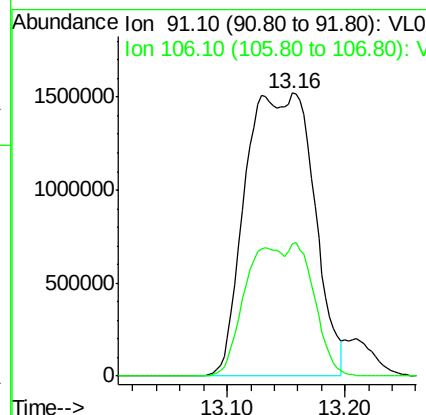
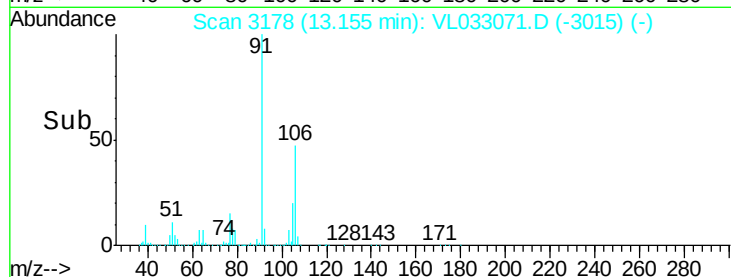
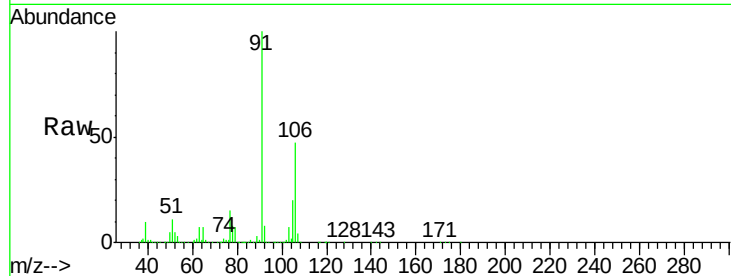
#59
m/p-Xylene
Concen: 17.898 ppbv m
RT: 13.16 min Scan# 3178
Delta R.T. 0.02 min
Lab File: VL033071.D
Acq: 4 Jan 2019 17:06

Instrument :
MSVOA_L
ClientSampleId :
VL0104ABS01

Tot Ion: 91 Resp: 6095607
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

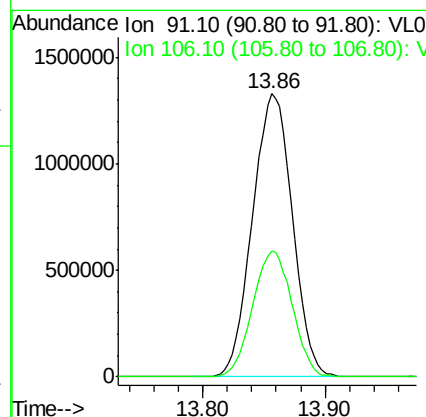
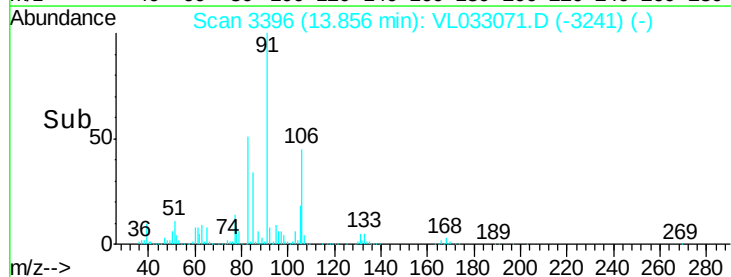
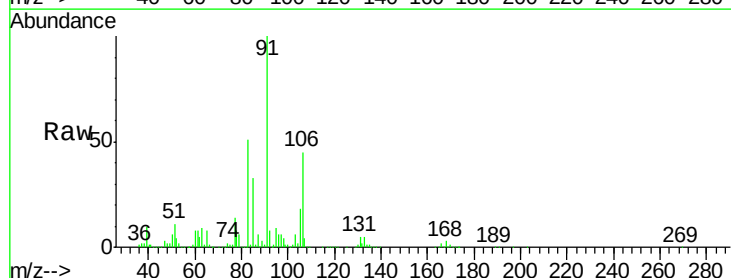
Manual Integrations
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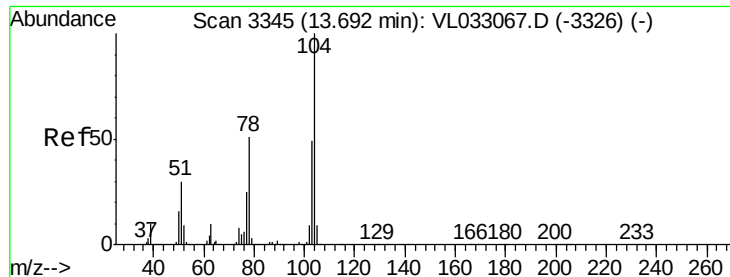
MMDadoda
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#60
o-Xylene
Concen: 9.027 ppbv
RT: 13.86 min Scan# 3396
Delta R.T. -0.00 min
Lab File: VL033071.D
Acq: 4 Jan 2019 17:06

Tgt Ion: 91 Resp: 3009604
Ion Ratio Lower Upper
91 100
106 44.1 22.1 66.5





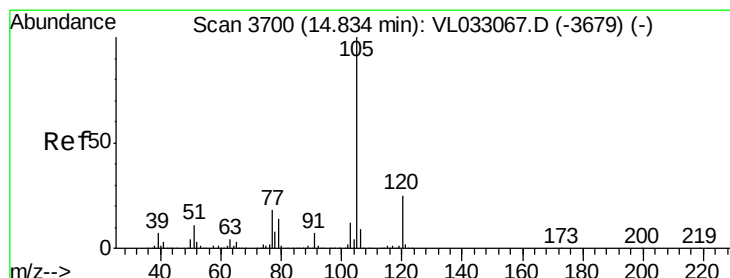
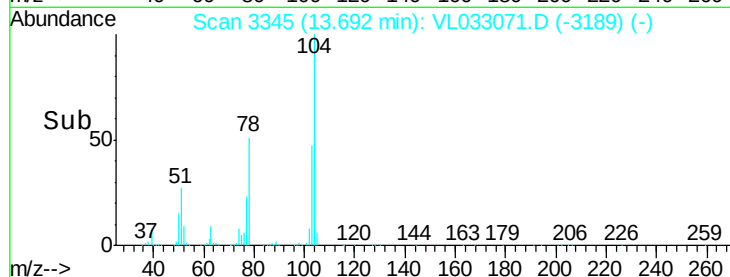
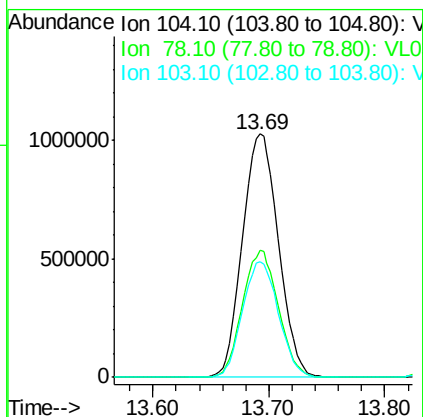
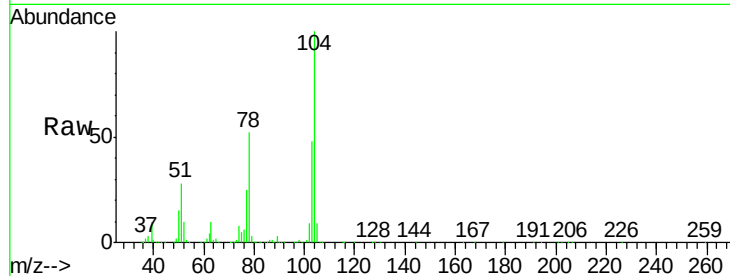
#61
Stvrene
Concen: 10.427 ppbv
RT: 13.69 min Scan# 3345
Delta R.T. 0.00 min
Lab File: VL033071.D
Acq: 4 Jan 2019 17:06

Instrument :
MSVOA_L
ClientSampleId :
VL0104ABS01

Tot Ion	Ratio	Lower	Upper
104	100		
78	52.2	41.6	62.4
103	47.7	38.1	57.1

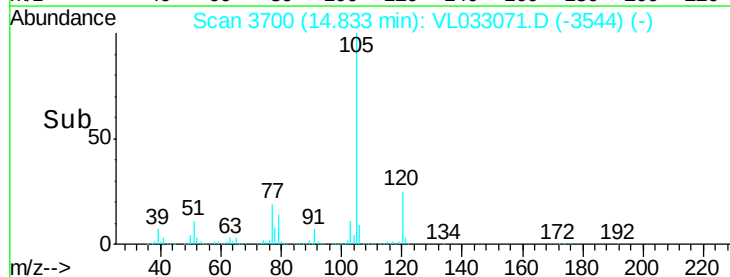
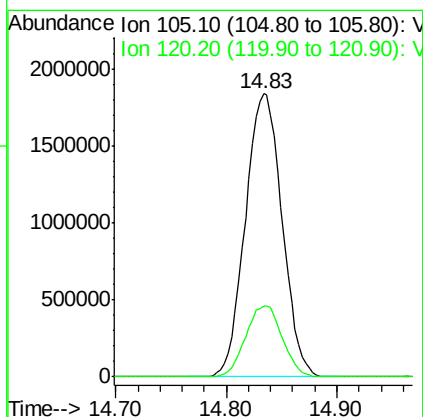
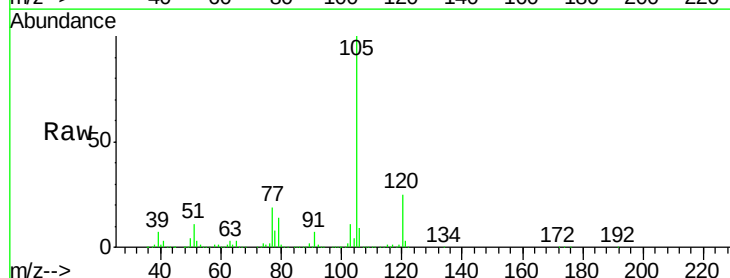
Manual Integrations
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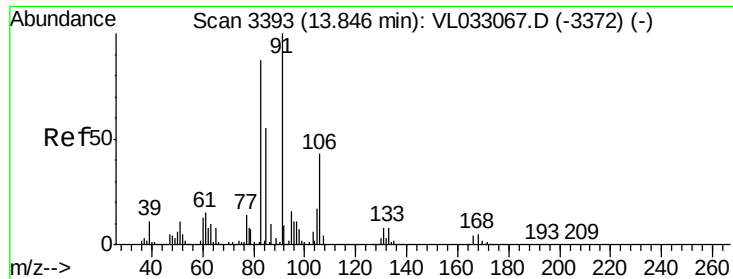
MMDadoda
1/8/2019 12:01:17 AM



#62
Isopropylbenzene
Concen: 8.946 ppbv
RT: 14.83 min Scan# 3700
Delta R.T. 0.00 min
Lab File: VL033071.D
Acq: 4 Jan 2019 17:06

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.1	20.4	30.6





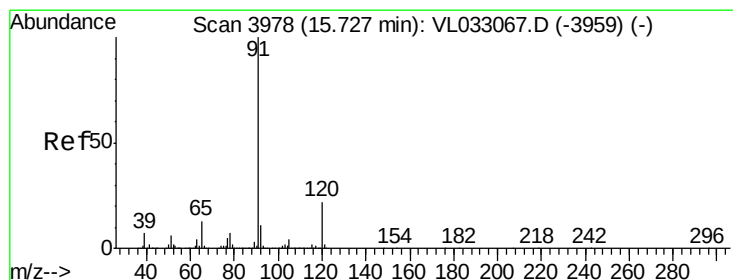
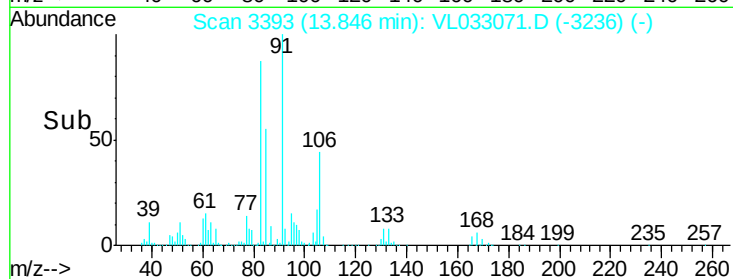
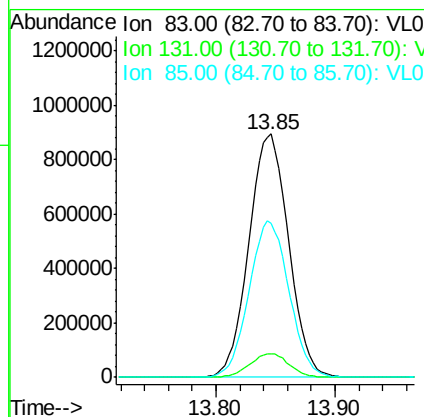
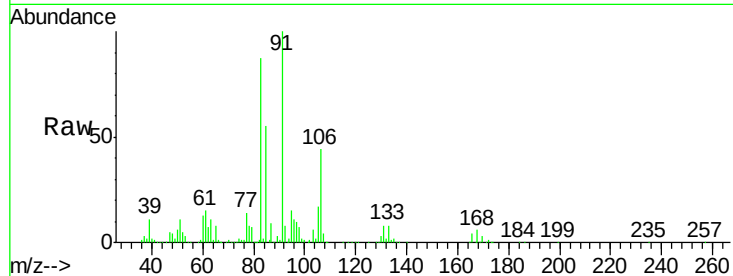
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.353 ppbv
 RT: 13.85 min Scan# 3393
 Delta R.T. 0.00 min
 Lab File: VL033071.D
 Acq: 4 Jan 2019 17:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0104ABS01

Tot Ion: 83 Resp: 2068654
 Ion Ratio Lower Upper
 83 100
 131 9.7 4.8 14.4
 85 64.8 32.6 97.8

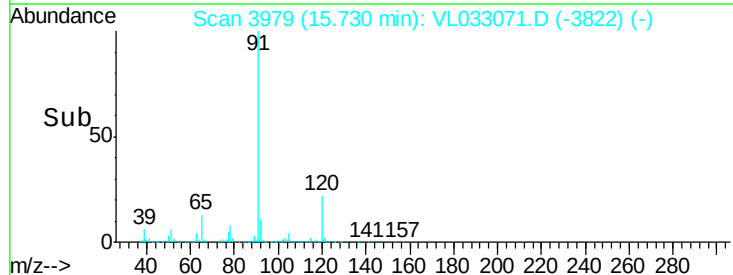
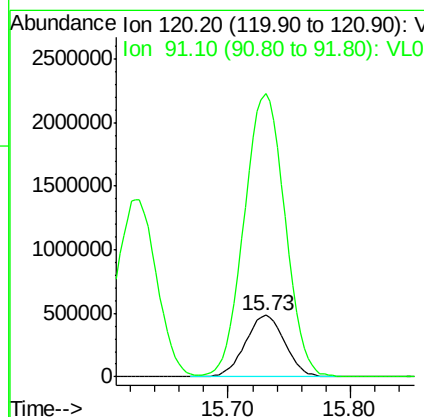
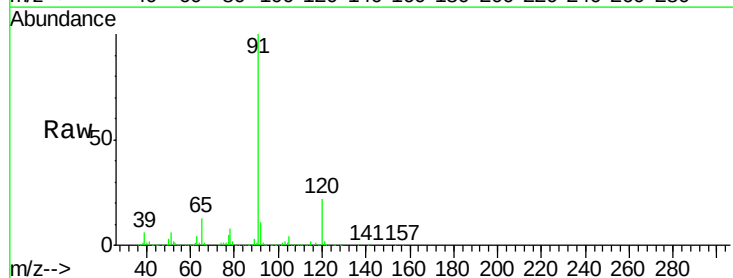
Manual Integrations
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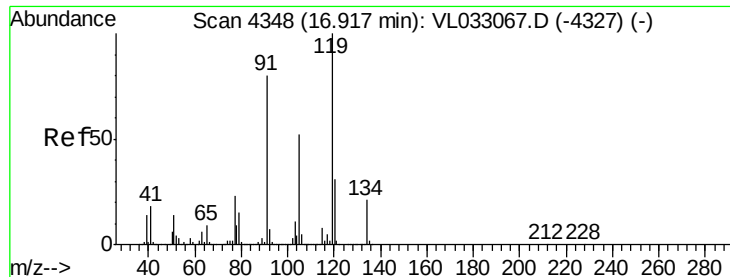
MMDadoda
 1/8/2019 12:01:17 AM



#64
 n-propylbenzene
 Concen: 8.963 ppbv
 RT: 15.73 min Scan# 3979
 Delta R.T. 0.00 min
 Lab File: VL033071.D
 Acq: 4 Jan 2019 17:06

Tgt Ion: 120 Resp: 1080417
 Ion Ratio Lower Upper
 120 100
 91 478.8 378.7 568.1





#65

tert-Butylbenzene

Concen: 8.916 ppbv

RT: 16.92 min Scan# 4348

Delta R.T. 0.00 min

Lab File: VL033071.D

Acq: 4 Jan 2019 17:06

Instrument :

MSVOA_L

ClientSampleId :

VL0104ABS01

Tot Ion:119 Resp: 3747397

Ion Ratio Lower Upper

119 100

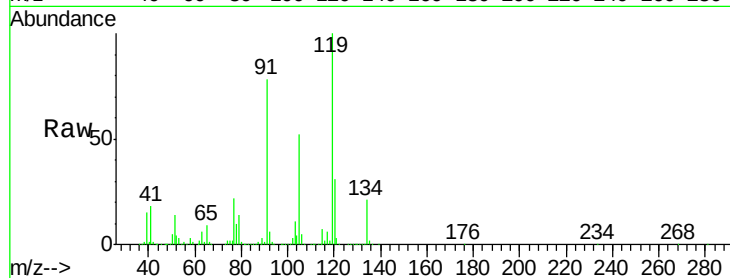
91 81.8 64.6 97.0

134 19.8 15.8 23.8

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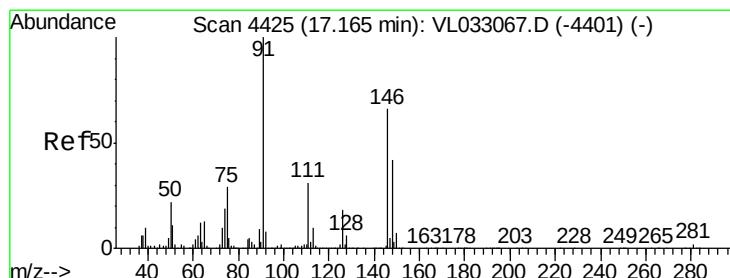
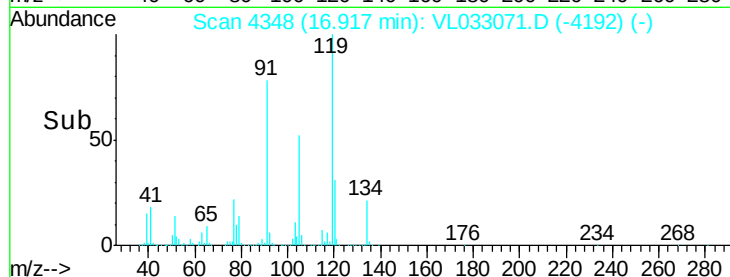
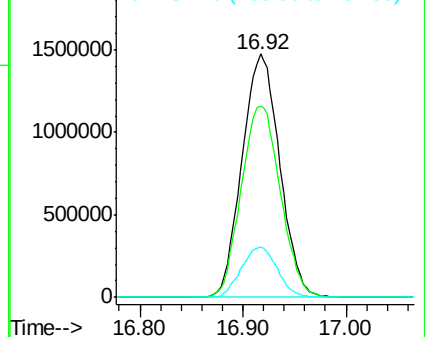
1/8/2019 12:01:17 AM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 9.595 ppbv

RT: 17.16 min Scan# 4425

Delta R.T. 0.00 min

Lab File: VL033071.D

Acq: 4 Jan 2019 17:06

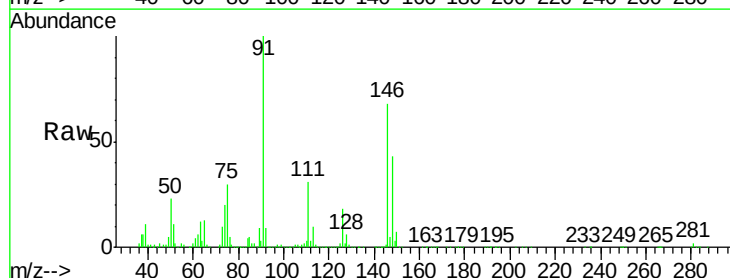
Tgt Ion: 91 Resp: 2298484

Ion Ratio Lower Upper

91 100

126 17.5 14.4 21.6

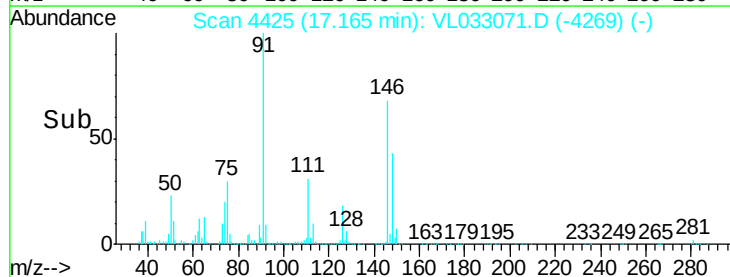
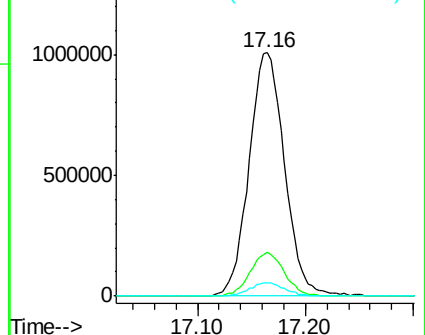
128 5.6 4.5 6.7

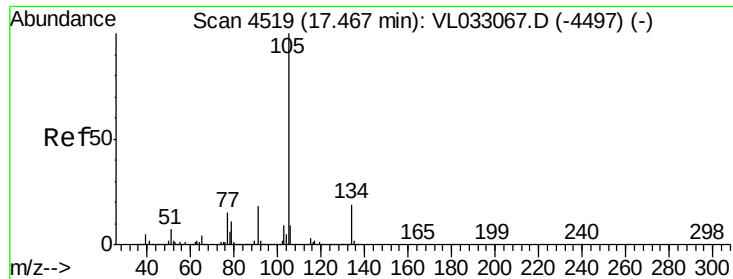


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.725 ppbv

RT: 17.47 min Scan# 4519

Delta R.T. 0.00 min

Lab File: VL033071.D

Acq: 4 Jan 2019 17:06

Instrument :

MSVOA_L

ClientSampleId :

VL0104ABS01

Tot Ion:105 Resp: 5247846

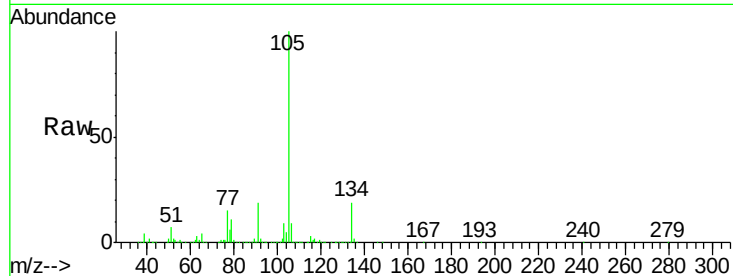
Ion Ratio Lower Upper

105 100

134 18.3 14.6 21.8

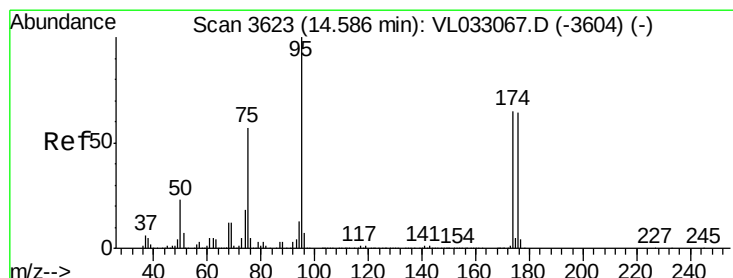
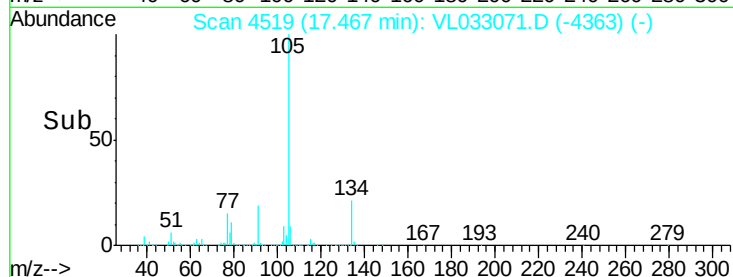
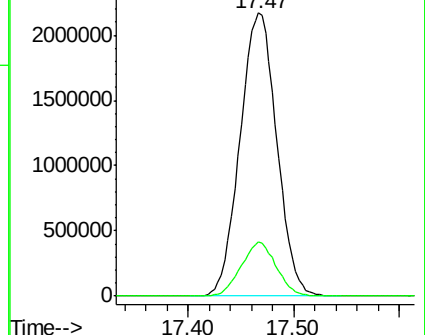
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.596 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.00 min

Lab File: VL033071.D

Acq: 4 Jan 2019 17:06

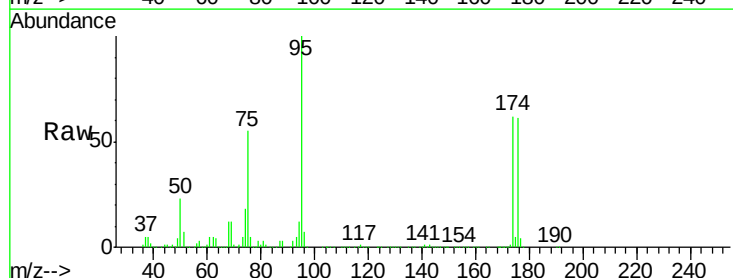
Tgt Ion: 95 Resp: 2144912

Ion Ratio Lower Upper

95 100

174 64.9 51.9 77.9

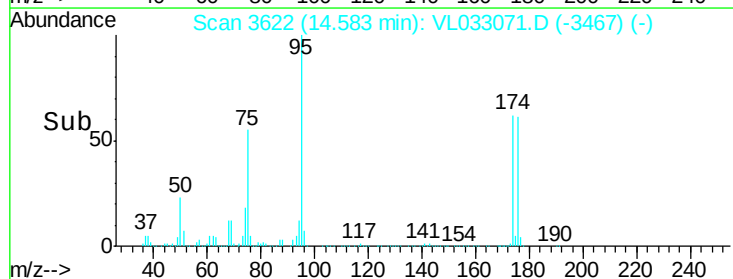
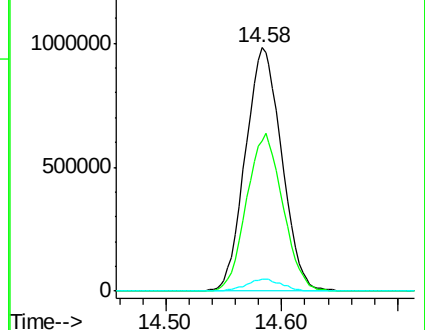
175 4.9 3.9 5.9

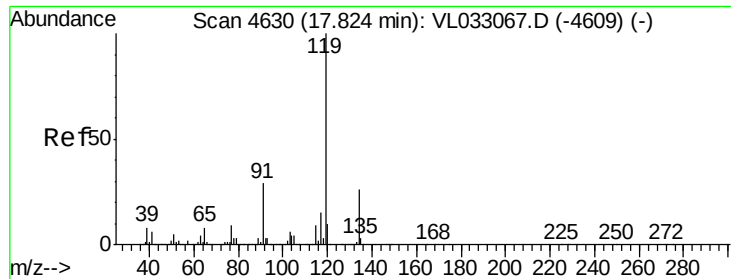


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





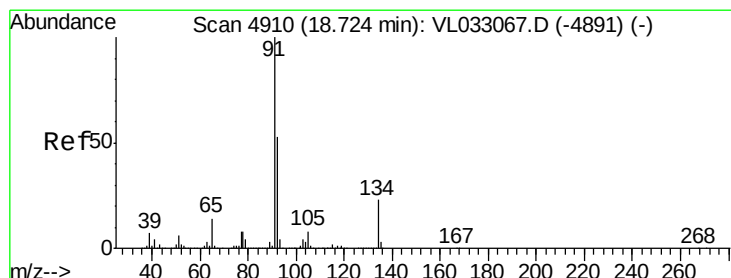
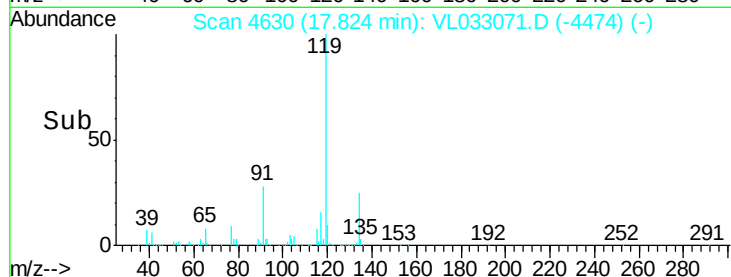
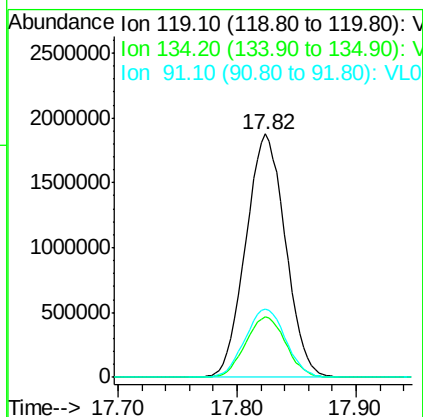
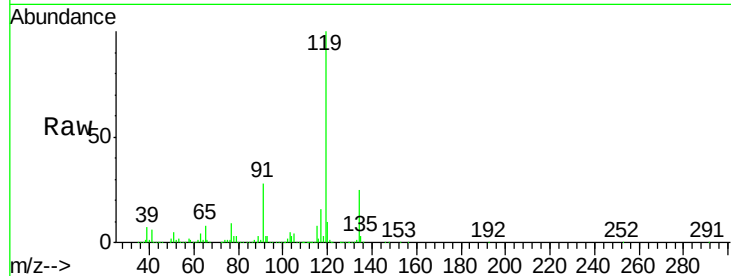
#69
 p-Isopropyltoluene
 Concen: 8.863 ppbv
 RT: 17.82 min Scan# 4630
 Delta R.T. 0.00 min
 Lab File: VL033071.D
 Acq: 4 Jan 2019 17:06

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0104ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.1	30.1
91	28.8	23.0	34.4

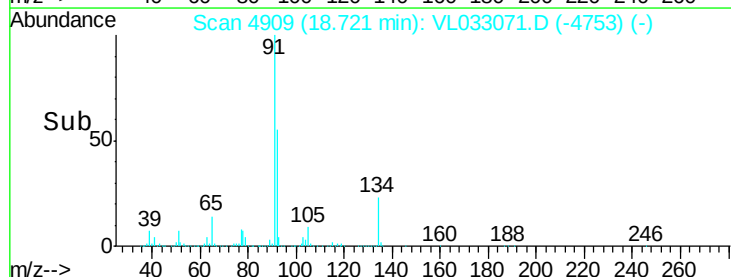
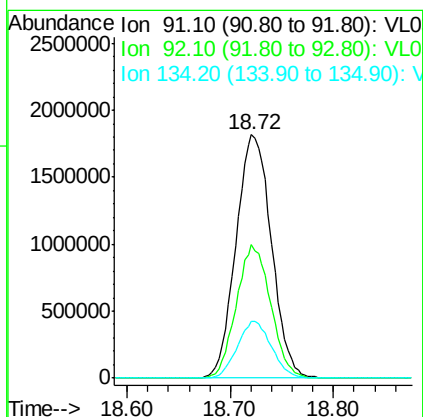
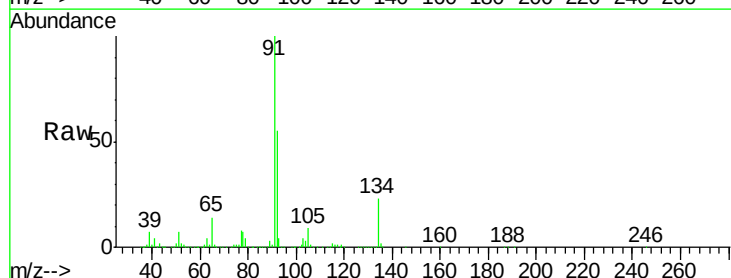
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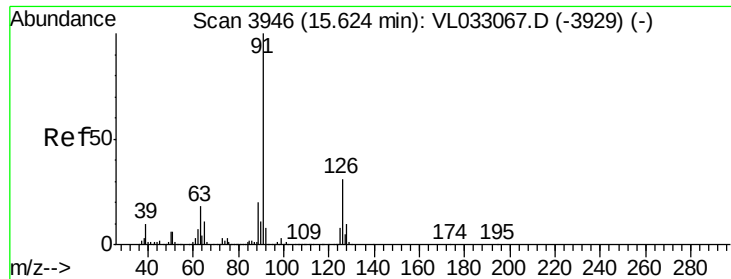
MMDadoda
 1/8/2019 12:01:17 AM



#70
 n-Butylbenzene
 Concen: 8.825 ppbv
 RT: 18.72 min Scan# 4909
 Delta R.T. 0.00 min
 Lab File: VL033071.D
 Acq: 4 Jan 2019 17:06

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.1	42.4	63.6
134	22.5	18.0	27.0





#71

2-Chlorotoluene

Concen: 9.336 ppbv

RT: 15.62 min Scan# 3946

Delta R.T. 0.00 min

Lab File: VL033071.D

Acq: 4 Jan 2019 17:06

Instrument :

MSVOA_L

ClientSampleId :

VL0104ABS01

Tot Ion: 91 Resp: 3141628

Ion Ratio Lower Upper

91 100

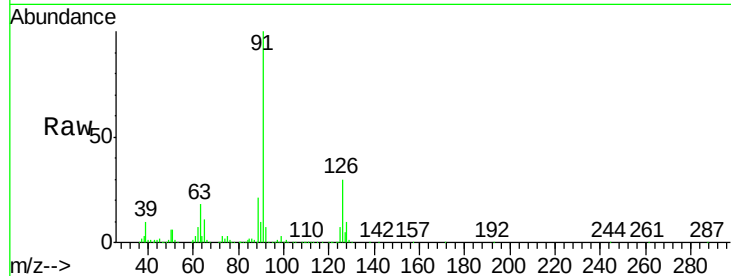
126 30.7 12.4 49.6

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

2500000

2000000

1500000

1000000

500000

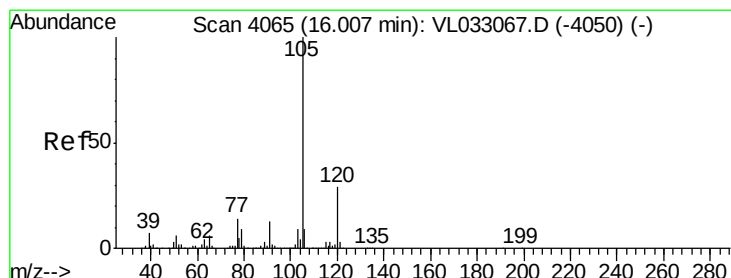
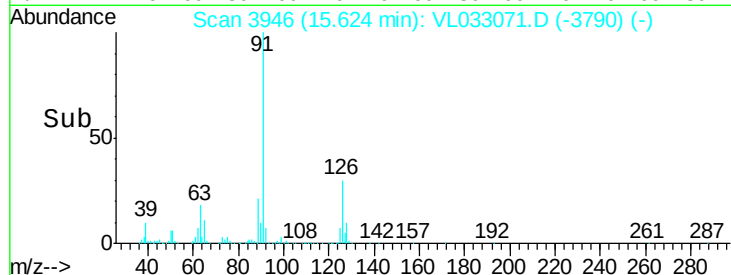
0

15.50

15.60

15.70

Time-->



#72

4-Ethyltoluene

Concen: 9.461 ppbv

RT: 16.01 min Scan# 4065

Delta R.T. 0.00 min

Lab File: VL033071.D

Acq: 4 Jan 2019 17:06

Tgt Ion:105 Resp: 3466709

Ion Ratio Lower Upper

105 100

120 29.3 23.0 34.6

91 13.0 10.3 15.5

77 13.8 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

2000000

1500000

1000000

500000

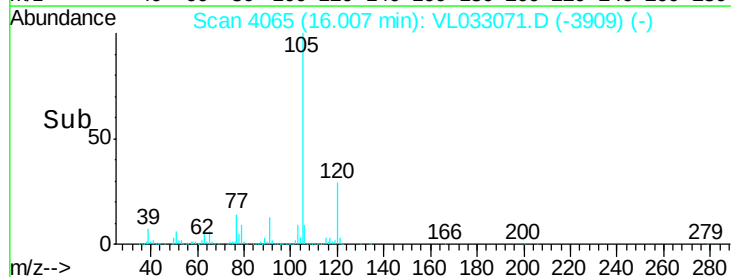
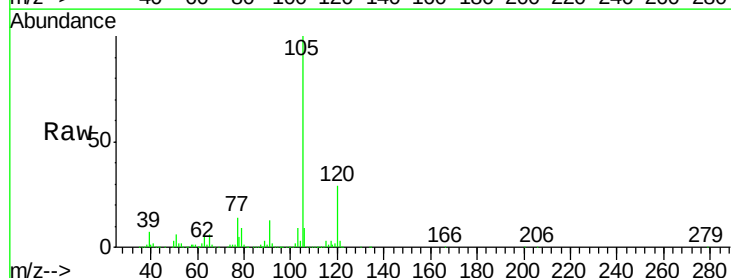
0

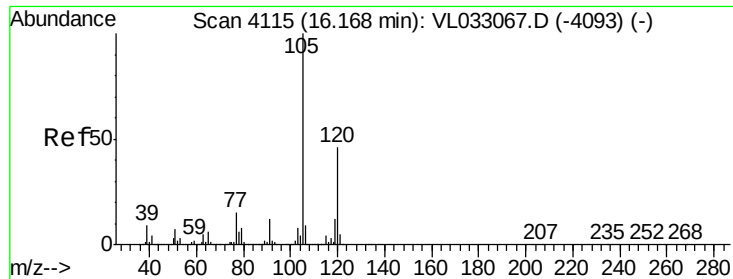
15.90

16.00

16.10

Time-->





#73

1,3,5-Trimethylbenzene

Concen: 9.097 ppbv

RT: 16.16 min Scan# 4114

Delta R.T. 0.00 min

Lab File: VL033071.D

Acq: 4 Jan 2019 17:06

Instrument :

MSVOA_L

ClientSampleId :

VL0104ABS01

Tot Ion:105 Resp: 3288817

Ion Ratio Lower Upper

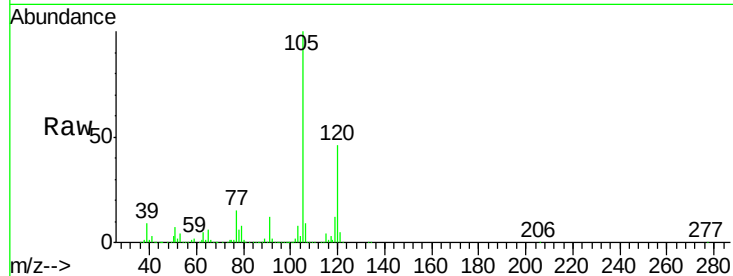
105 100

120 45.5 36.1 54.1

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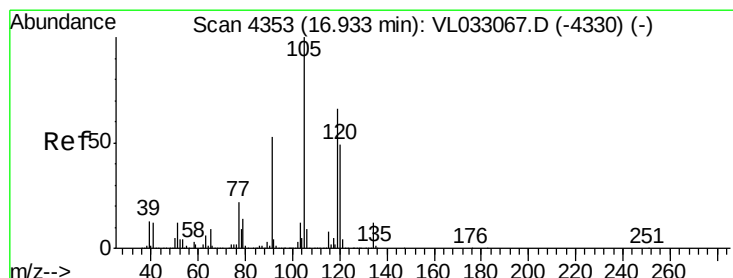
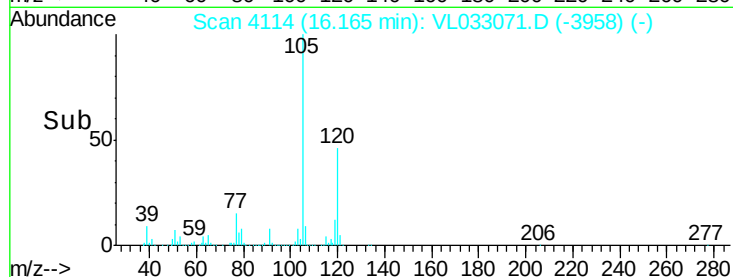
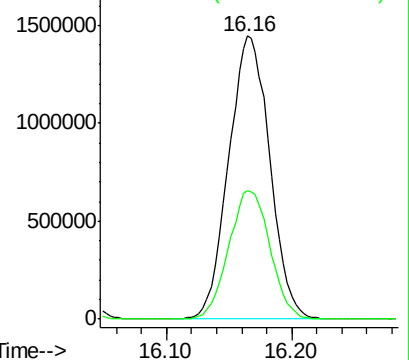
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.517 ppbv

RT: 16.94 min Scan# 4354

Delta R.T. 0.00 min

Lab File: VL033071.D

Acq: 4 Jan 2019 17:06

Tgt Ion:105 Resp: 3410152

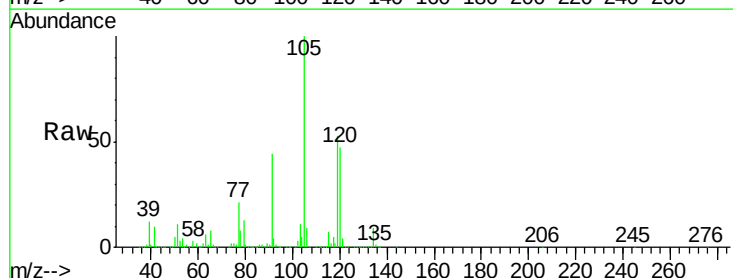
Ion Ratio Lower Upper

105 100

120 46.8 37.0 55.4

91 43.6 35.4 53.0

77 20.7 17.1 25.7

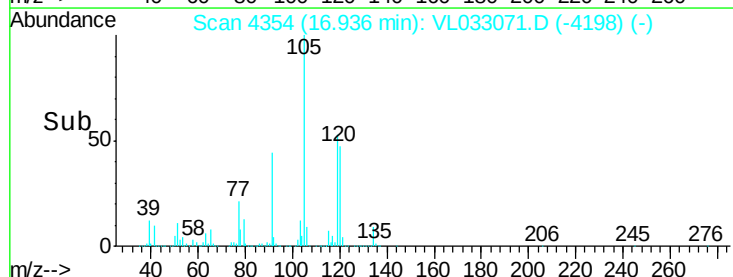
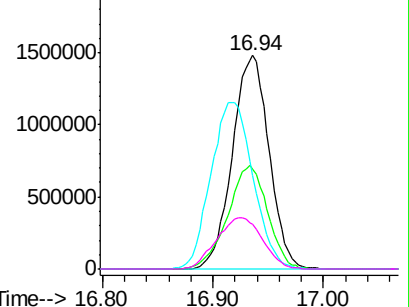


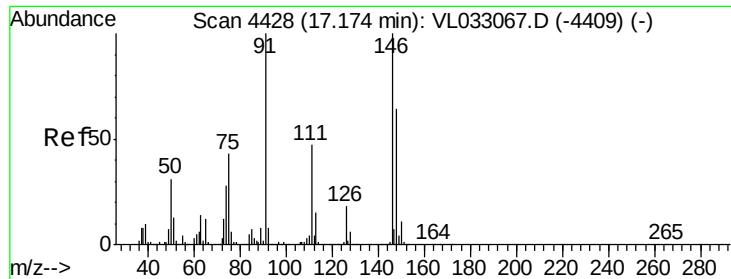
Abundance Ion 105.10 (104.80 to 105.80): V

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





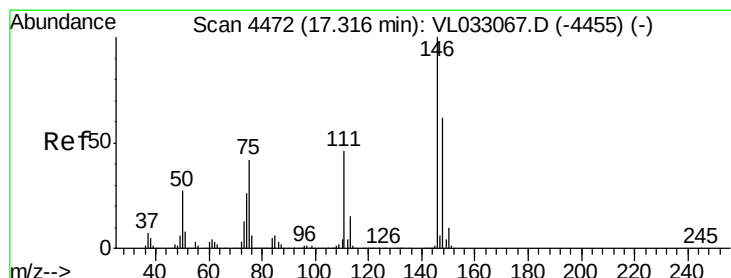
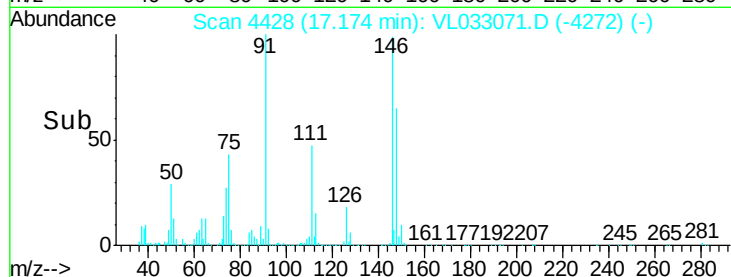
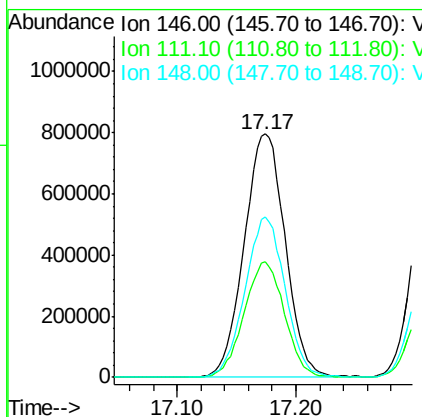
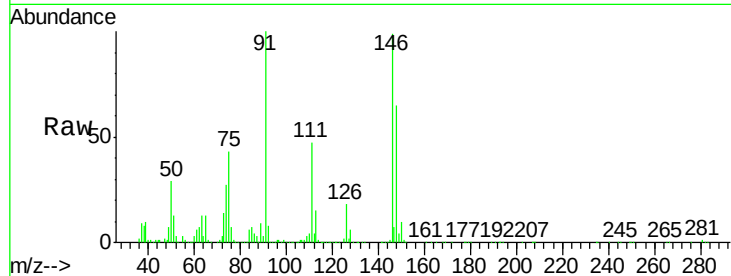
#75
 1,3-Dichlorobenzene
 Concen: 8.073 ppbv
 RT: 17.17 min Scan# 4428
 Delta R.T. 0.00 min
 Lab File: VL033071.D
 Acq: 4 Jan 2019 17:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0104ABS01

Tot Ion:146 Resp: 1902609
 Ion Ratio Lower Upper
 146 100
 111 46.8 23.4 70.2
 148 64.4 32.1 96.3

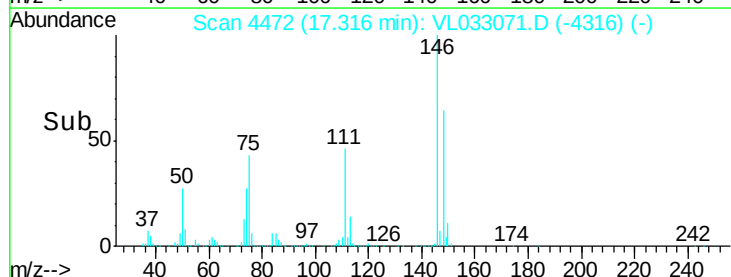
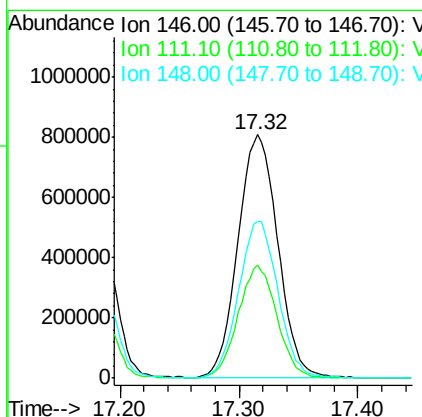
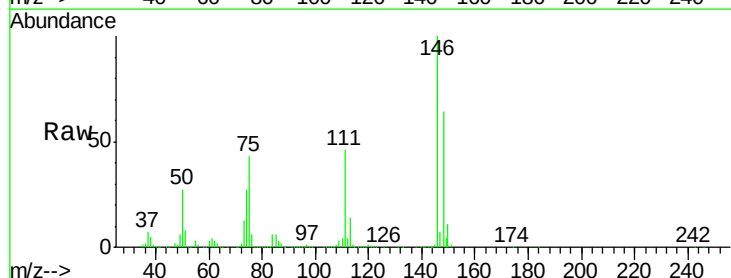
Manual Integrations
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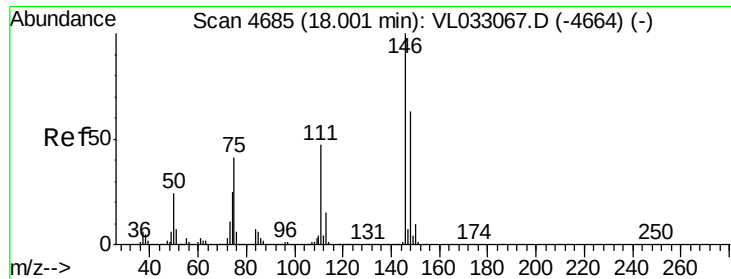
MMDadoda
 1/8/2019 12:01:17 AM



#76
 1,4-Dichlorobenzene
 Concen: 8.672 ppbv
 RT: 17.32 min Scan# 4472
 Delta R.T. 0.00 min
 Lab File: VL033071.D
 Acq: 4 Jan 2019 17:06

Tgt Ion:146 Resp: 1861702
 Ion Ratio Lower Upper
 146 100
 111 45.5 22.7 68.1
 148 64.5 32.4 97.2





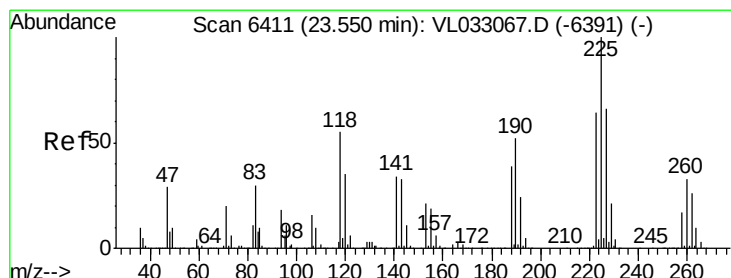
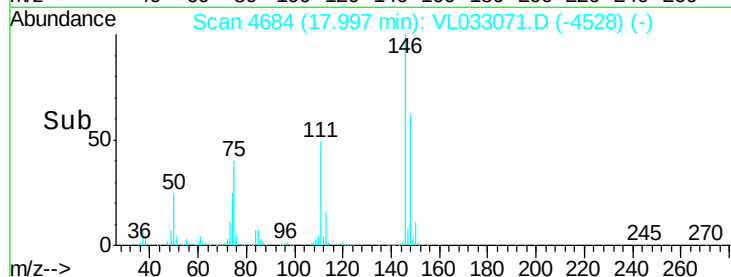
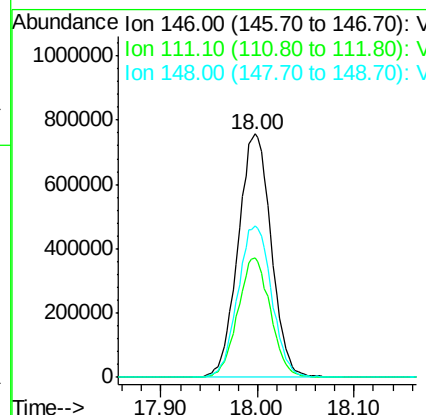
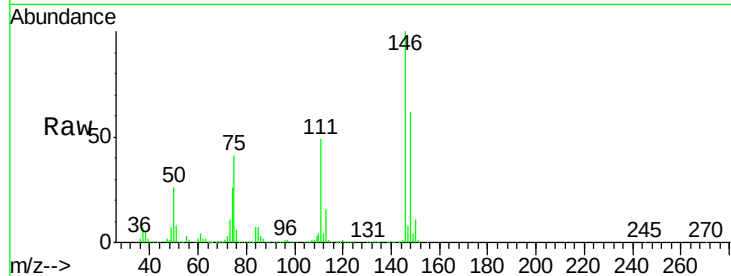
#77
 1,2-Dichlorobenzene
 Concen: 8.477 ppbv
 RT: 18.00 min Scan# 4684
 Delta R.T. 0.00 min
 Lab File: VL033071.D
 Acq: 4 Jan 2019 17:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0104ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.7	24.4	73.2
148	63.8	32.3	96.9

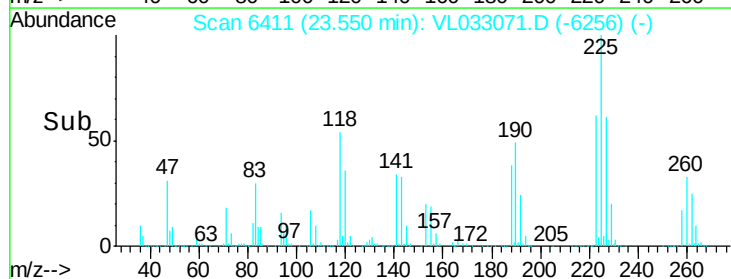
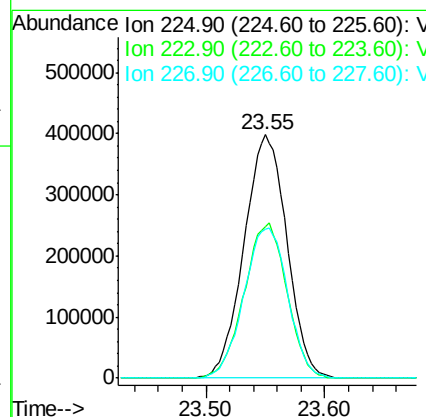
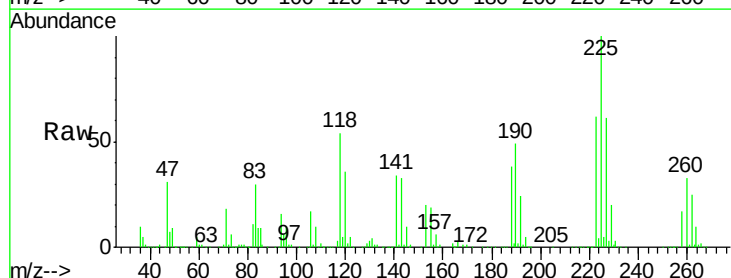
Manual Integrations
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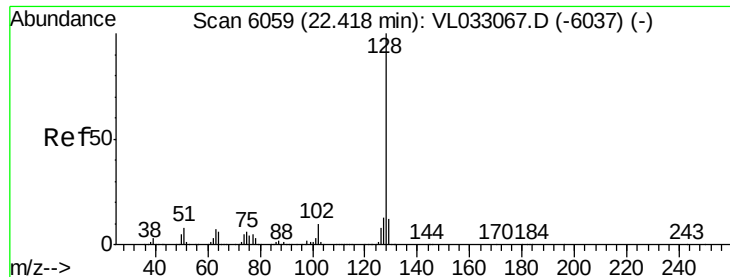
MMDadoda
 1/8/2019 12:01:17 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 6.079 ppbv
 RT: 23.55 min Scan# 6411
 Delta R.T. -0.00 min
 Lab File: VL033071.D
 Acq: 4 Jan 2019 17:06

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.5	51.0	76.6
227	63.3	51.0	76.4





#79

Naphthalene

Concen: 9.568 ppbv

RT: 22.42 min Scan# 6060

Delta R.T. -0.00 min

Lab File: VL033071.D

Acq: 4 Jan 2019 17:06

Instrument :

MSVOA_L

ClientSampleId :

VL0104ABS01

Tot Ion:128 Resp: 3226748

Ion Ratio Lower Upper

128 100

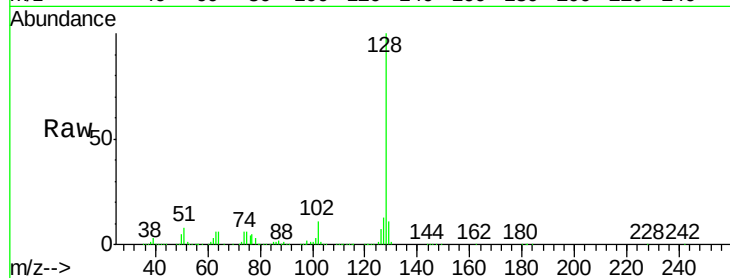
127 13.3 11.0 16.6

129 11.2 9.4 14.0

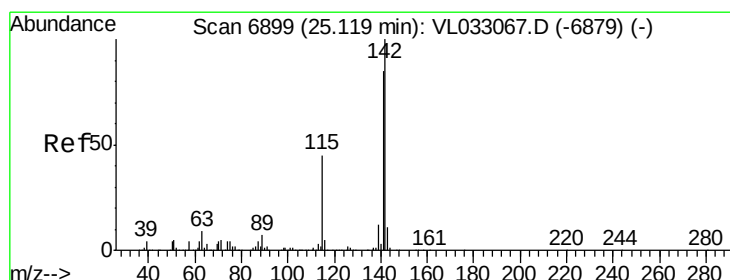
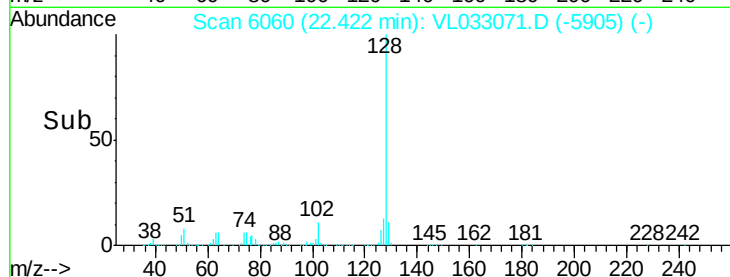
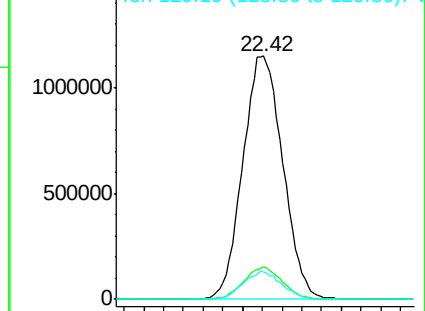
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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 12.096 ppbv

RT: 25.12 min Scan# 6899

Delta R.T. 0.00 min

Lab File: VL033071.D

Acq: 4 Jan 2019 17:06

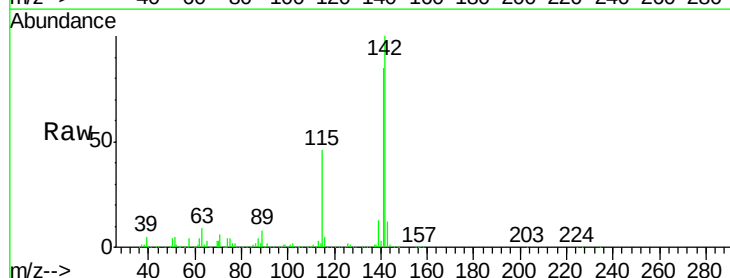
Tgt Ion:142 Resp: 1237902

Ion Ratio Lower Upper

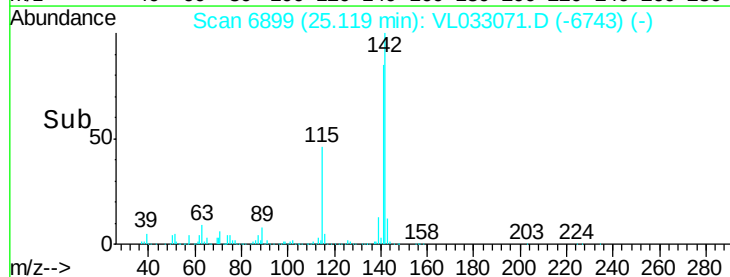
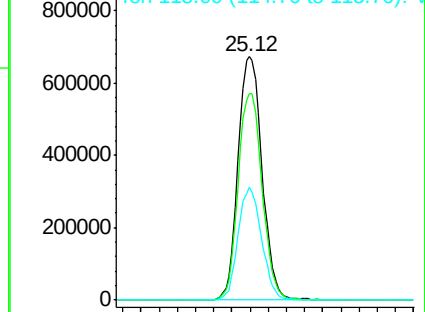
142 100

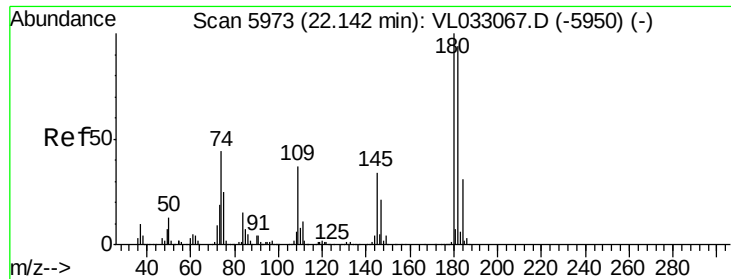
141 85.0 68.6 103.0

115 45.3 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: 9.134 ppbv
 RT: 22.15 min Scan# 5975
 Delta R.T. 0.00 min
 Lab File: VL033071.D
 Acq: 4 Jan 2019 17:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0104ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.1	114.1
184	30.5	24.6	37.0

Manual Integrations
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 1/8/2019 12:01:17 AM

