

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071218\
 Data File : VL032235.D
 Acq On : 13 Jul 2018 00:11
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL071218

Manual Integrations
 APPROVED

MMDadoda
 7/13/2018 5:22:16 PM

Quant Time: Jul 13 05:24:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 13 2018
 QLast Update : Fri Jul 13 04:25:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1871589	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.38	114	4256057	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.34	117	5171836m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.67	95	3991893	9.97	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	2853585	10.59	ppbv	99
3) Chlorodifluoromethane	3.06	51	1877786	8.16	ppbv	99
4) Chloromethane	3.22	50	1065503	8.14	ppbv	99
5) Vinyl Chloride	3.35	62	1028243	7.98	ppbv	97
6) Bromomethane	3.57	94	601981	8.39	ppbv	98
7) Chloroethane	3.66	64	383108	8.63	ppbv	94
8) Dichlorotetrafluoroethane	3.27	85	2120800	7.17	ppbv	99
9) Propene	3.09	41	904803	9.23	ppbv	100
10) Heptane	8.34	43	2638345	9.48	ppbv	98
11) Trichlorofluoromethane	4.07	101	2121769	8.23	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.62	101	1386860	8.42	ppbv	99
13) Ethanol	3.71	45	200413	7.08	ppbv	98
14) Bromoethene	3.85	108	673486	8.67	ppbv	99
15) Acetone	3.96	43	1631287	7.51	ppbv	100
16) 1,3-Butadiene	3.42	39	1031360	9.40	ppbv	91
17) tert-Butyl alcohol	4.43	59	1433986	14.14	ppbv	99
18) 1,1-Dichloroethene	4.42	96	685105	8.94	ppbv	92
19) Isopropyl Alcohol	4.09	45	1185385	8.31	ppbv	99
20) Methylene Chloride	4.48	84	591121	8.03	ppbv	99
21) Allyl Chloride	4.55	41	1219560	9.59	ppbv	99
22) trans-1,2-Dichloroethene	5.04	96	753460	10.33	ppbv	98
23) Vinyl Acetate	5.23	43	3570970	9.89	ppbv	99
24) 1,1-Dichloroethane	5.17	63	2352394	9.28	ppbv	99
25) Ethyl Acetate	5.85	43	3872956	9.01	ppbv	99
26) Hexane	5.86	57	1799120	9.18	ppbv	98
27) Carbon Disulfide	4.69	76	1731093	9.87	ppbv	99
28) Methyl tert-Butyl Ether	5.19	73	3104697	10.06	ppbv	99
29) Chloroform	5.93	83	2686054	8.87	ppbv	97
30) Cyclohexane	7.33	84	1640366	9.48	ppbv	99
31) cis-1,2-Dichloroethene	5.72	61	1908436	9.75	ppbv	99
32) 1,1,1-Trichloroethane	6.71	97	2724533	9.28	ppbv	100
34) 2-Butanone	5.40	43	2735490	9.43	ppbv	99
35) Carbon Tetrachloride	7.22	117	2695999	9.36	ppbv	99
36) Benzene	7.09	78	3916755	9.26	ppbv	99
37) 1,2-Dichloroethane	6.49	62	2121421	9.16	ppbv	99
38) Trichloroethene	8.05	130	1292112	8.91	ppbv	97
39) 1,2-Dichloropropane	7.83	63	1574473	9.37	ppbv	98
40) 1,4-Dioxane	8.05	88	459485	7.97	ppbv #	39
41) Tetrahydrofuran	6.23	42	1627359	10.03	ppbv	99
42) Bromodichloromethane	8.01	83	3070089	9.31	ppbv	100
43) Methyl Methacrylate	8.22	69	1620330	9.91	ppbv	98

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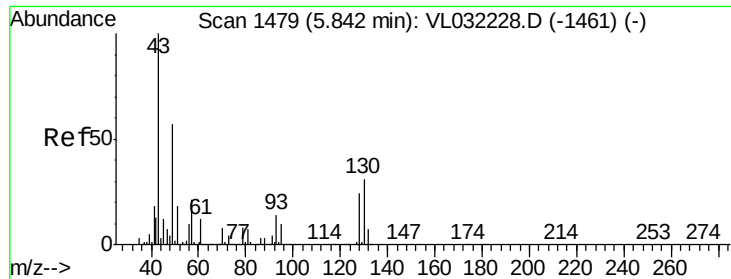
Manual Integrations
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 7/13/2018 5:22:16 PM

Quant Time: Jul 13 05:24:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 13 2018
 QLast Update : Fri Jul 13 04:25:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.08	57	6775390	9.31	ppbv	99
45) t-1,3-Dichloropropene	9.51	75	2093313	10.75	ppbv	100
46) cis-1,3-Dichloropropene	8.93	75	2880274	10.85	ppbv	98
47) 1,1,2-Trichloroethane	9.71	97	1734182	9.24	ppbv	97
48) Dibromochloromethane	10.55	129	2770992	9.92	ppbv	100
49) Bromoform	13.31	173	2195073	9.80	ppbv	99
50) 4-Methyl-2-Pentanone	8.96	43	4839032	9.65	ppbv	99
51) 2-Hexanone	10.37	43	3913860	9.34	ppbv #	99
52) Tetrachloroethene	11.47	164	1364165	8.73	ppbv	94
53) Toluene	10.04	91	5019490	10.04	ppbv	99
54) 1,2-Dibromoethane	10.86	107	2710874	9.78	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.38	131	1948678	8.67	ppbv	97
57) Chlorobenzene	12.40	112	3648411	8.35	ppbv	98
58) Ethyl Benzene	12.96	91	7015263	9.32	ppbv	100
59) m/p-Xylene	13.25	91	11322898m	18.27	ppbv	
60) o-Xylene	13.95	91	5385227	8.81	ppbv	100
61) Styrene	13.78	104	4459767	9.73	ppbv	100
62) Isopropylbenzene	14.92	105	7534506	8.79	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.94	83	3735405	7.51	ppbv	99
64) n-propylbenzene	15.82	120	1925202	8.87	ppbv	100
65) tert-Butylbenzene	17.01	119	6022211	8.39	ppbv	100
66) Benzyl Chloride	17.25	91	3679576	10.12	ppbv	99
67) sec-Butylbenzene	17.56	105	9032667	8.61	ppbv	100
69) p-Isopropyltoluene	17.91	119	7113573	8.71	ppbv	99
70) n-Butylbenzene	18.81	91	7754213	8.59	ppbv	99
71) 2-Chlorotoluene	15.72	91	5943335	8.81	ppbv	100
72) 4-Ethyltoluene	16.10	105	6192248	9.03	ppbv	100
73) 1,3,5-Trimethylbenzene	16.25	105	5864196	9.19	ppbv	98
74) 1,2,4-Trimethylbenzene	17.03	105	5648035	8.66	ppbv	99
75) 1,3-Dichlorobenzene	17.27	146	2989219	7.68	ppbv	99
76) 1,4-Dichlorobenzene	17.41	146	3061293	8.03	ppbv	100
77) 1,2-Dichlorobenzene	18.09	146	2929679	7.58	ppbv	99
78) Hexachloro-1,3-Butadiene	23.63	225	791288	6.56	ppbv	99
79) Naphthalene	22.53	128	4569017	10.43	ppbv	99
80) Naphthalene, 2-methyl-	25.19	142	2453630	17.54	ppbv	100
81) 1,2,4-Trichlorobenzene	22.25	180	2112886	9.64	ppbv	99

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



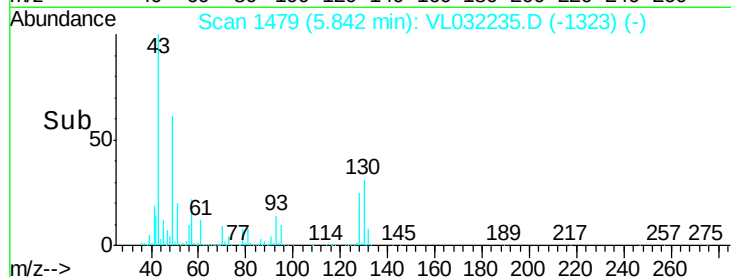
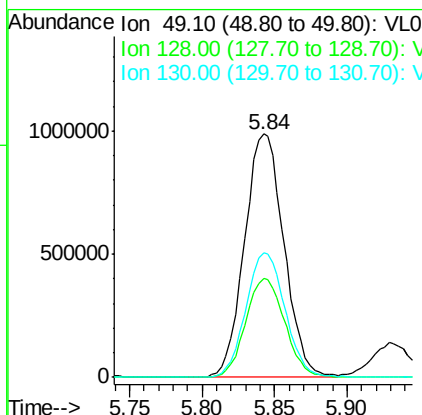
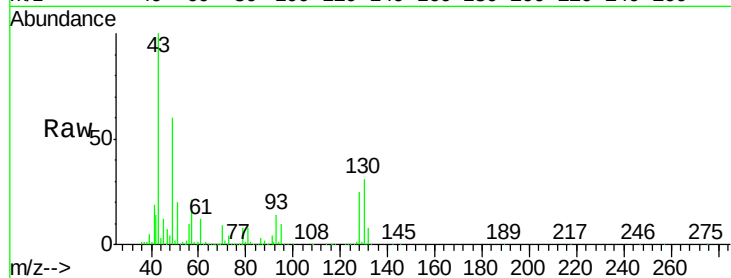
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 Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.84 min Scan# 1479
 Delta R.T. 0.00 min
 Lab File: VL032235.D
 Acq: 13 Jul 2018 00:11

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL071218

Tot Ion	Ratio	Lower	Upper
49	100		
128	40.5	20.9	62.8
130	51.0	27.0	81.0

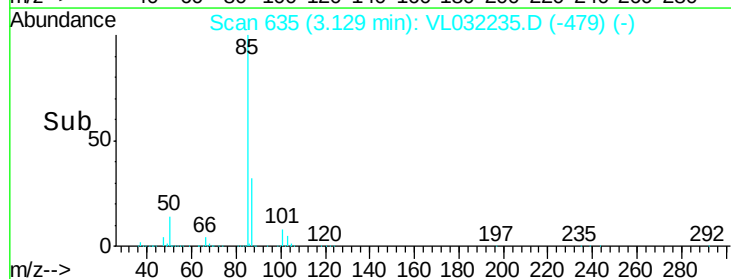
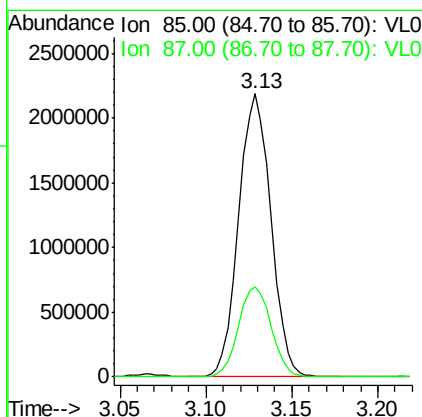
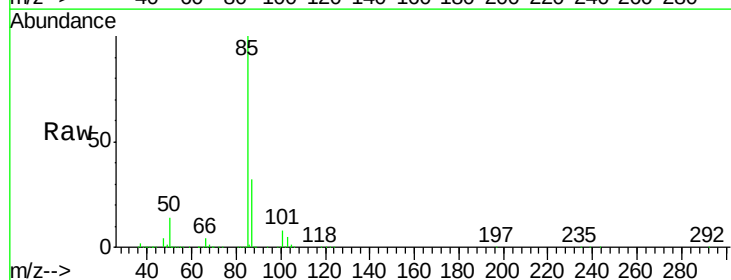
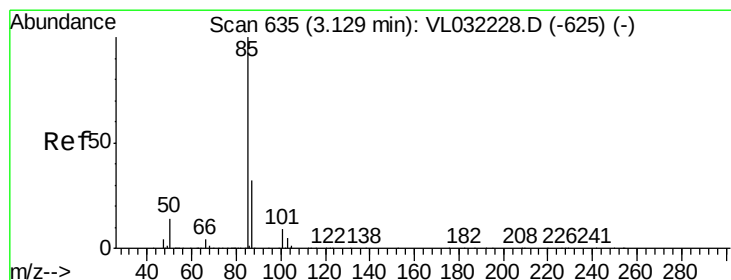
Manual Integrations
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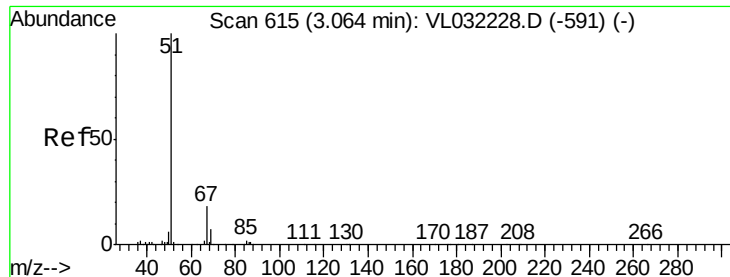
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#2
 Dichlorodifluoromethane
 Concen: 10.59 ppbv
 RT: 3.13 min Scan# 635
 Delta R.T. 0.00 min
 Lab File: VL032235.D
 Acq: 13 Jul 2018 00:11

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.7	25.8	38.6





#3

Chlorodifluoromethane

Concen: 8.16 ppbv

RT: 3.06 min Scan# 615

Delta R.T. 0.00 min

Lab File: VL032235.D

Acq: 13 Jul 2018 00:11

Instrument :

MSVOA_L

ClientSampleId :

ICVVL071218

Tot Ion: 51 Resp: 1877786

Ion Ratio Lower Upper

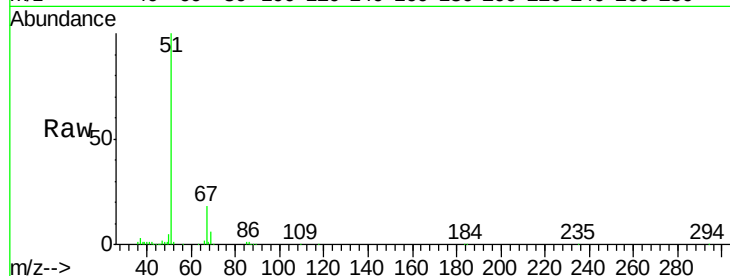
51 100

67 18.0 14.6 22.0

Manual Integrations
APPROVED

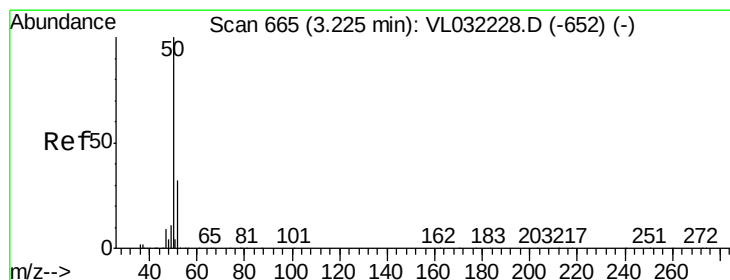
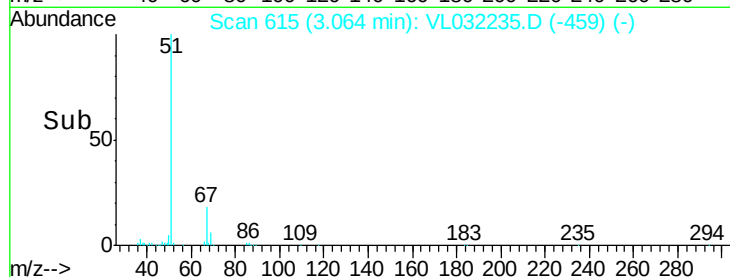
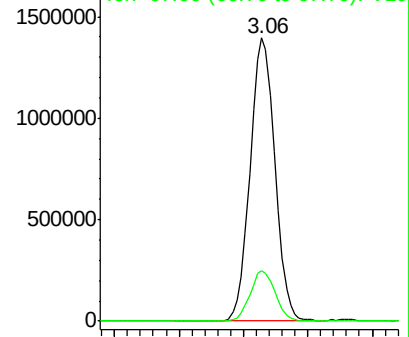
MMDadoda

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 8.14 ppbv

RT: 3.22 min Scan# 664

Delta R.T. -0.00 min

Lab File: VL032235.D

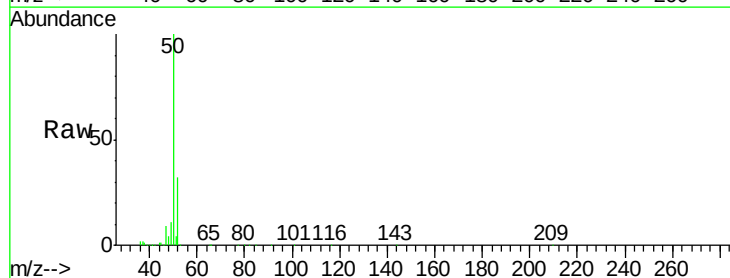
Acq: 13 Jul 2018 00:11

Tgt Ion: 50 Resp: 1065503

Ion Ratio Lower Upper

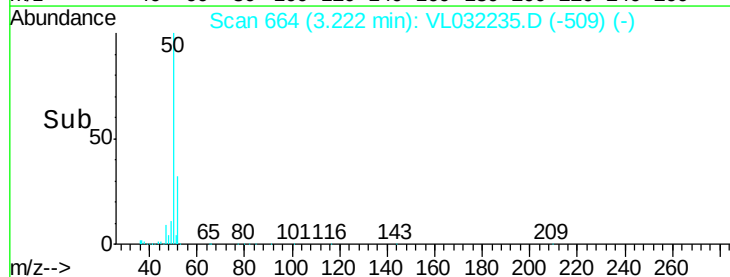
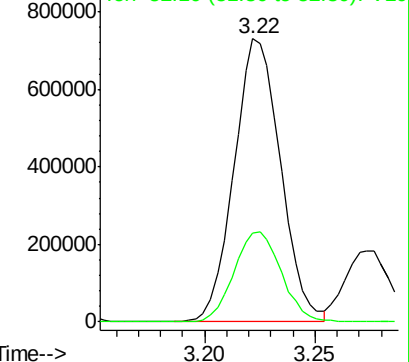
50 100

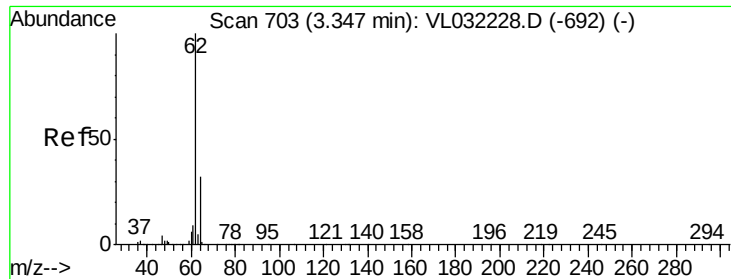
52 31.5 25.7 38.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 7.98 ppbv

RT: 3.35 min Scan# 703

Delta R.T. 0.00 min

Lab File: VL032235.D

Acq: 13 Jul 2018 00:11

Instrument :

MSVOA_L

ClientSampleId :

ICVVL071218

Tot Ion: 62 Resp: 1028243

Ion Ratio Lower Upper

62 100

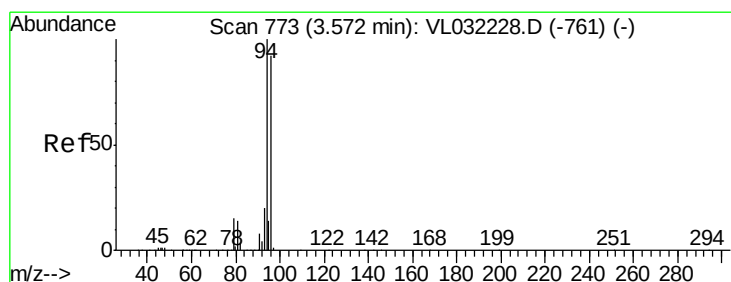
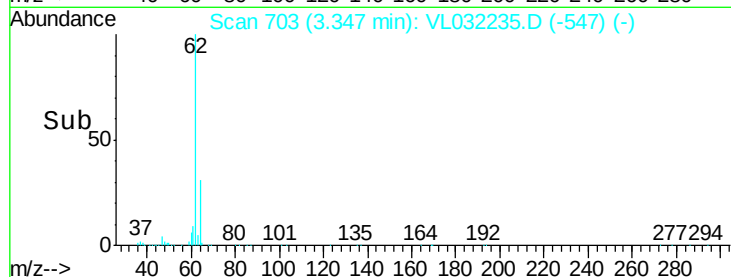
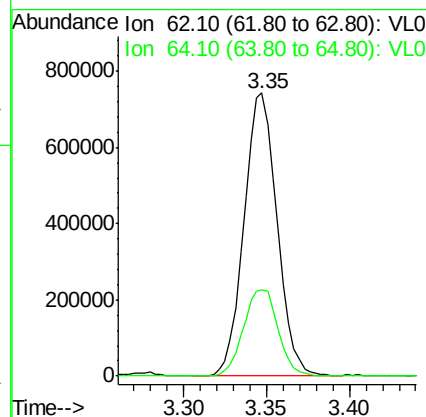
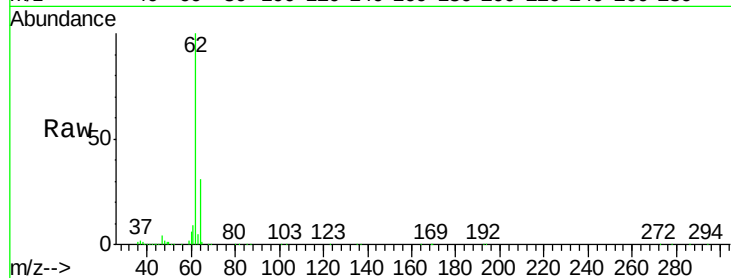
64 30.6 25.8 38.6

Manual Integrations

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#6

Bromomethane

Concen: 8.39 ppbv

RT: 3.57 min Scan# 773

Delta R.T. 0.00 min

Lab File: VL032235.D

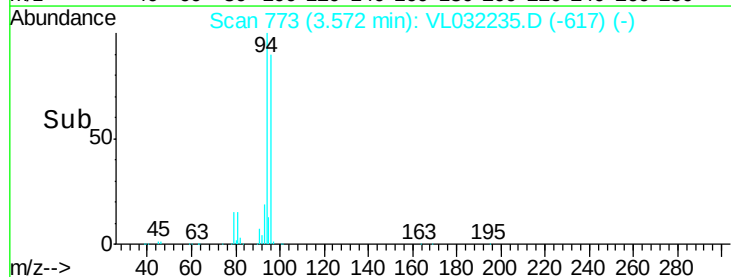
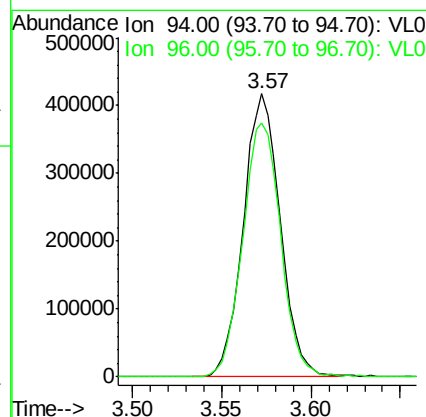
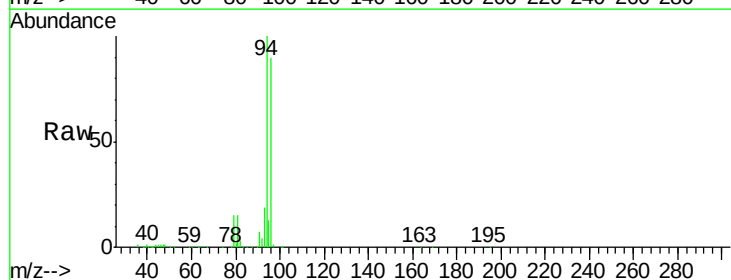
Acq: 13 Jul 2018 00:11

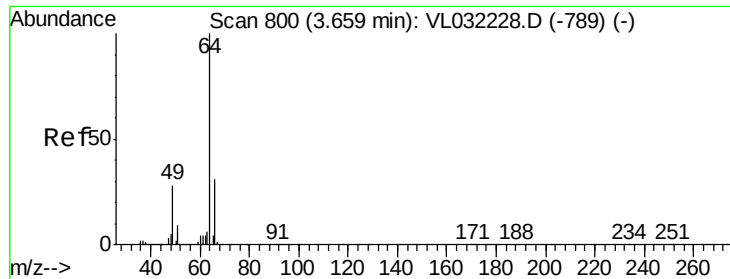
Tgt Ion: 94 Resp: 601981

Ion Ratio Lower Upper

94 100

96 89.6 73.5 110.3





#7

Chloroethane

Concen: 8.63 ppbv

RT: 3.66 min Scan# 800

Delta R.T. 0.00 min

Lab File: VL032235.D

Acq: 13 Jul 2018 00:11

Instrument :

MSVOA_L

ClientSampleId :

ICVVL071218

Tot Ion: 64 Resp: 383108

Ion Ratio Lower Upper

64 100

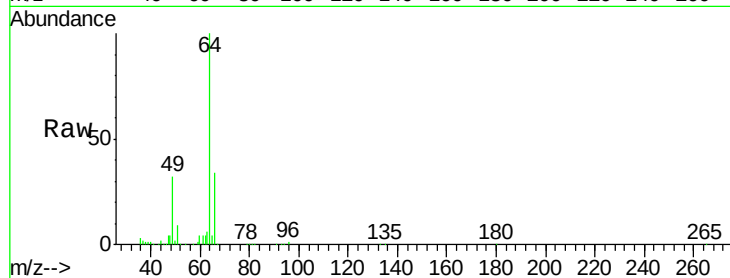
66 33.5 24.4 36.6

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.66

250000

200000

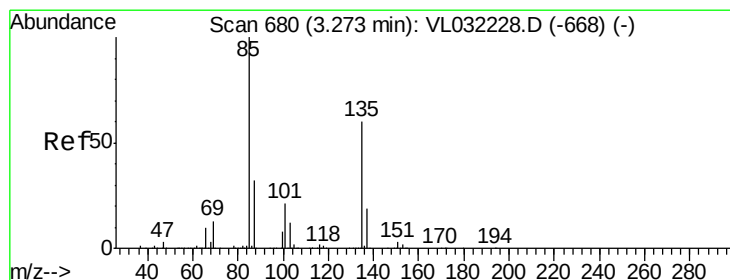
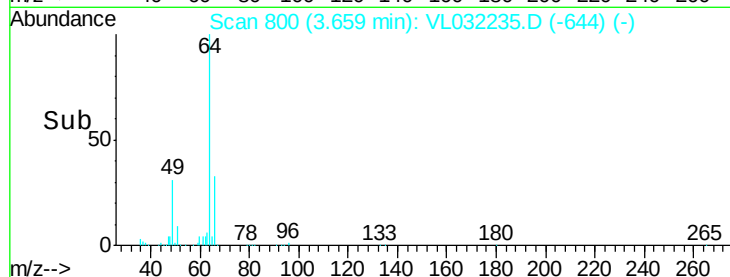
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 7.17 ppbv

RT: 3.27 min Scan# 680

Delta R.T. 0.00 min

Lab File: VL032235.D

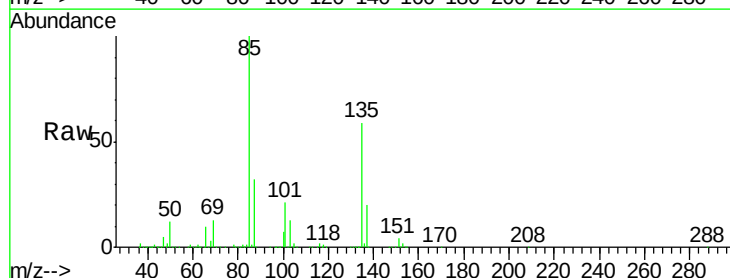
Acq: 13 Jul 2018 00:11

Tgt Ion: 85 Resp: 2120800

Ion Ratio Lower Upper

85 100

135 59.9 48.6 72.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.27

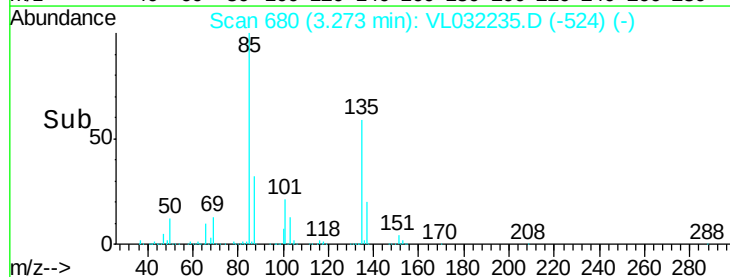
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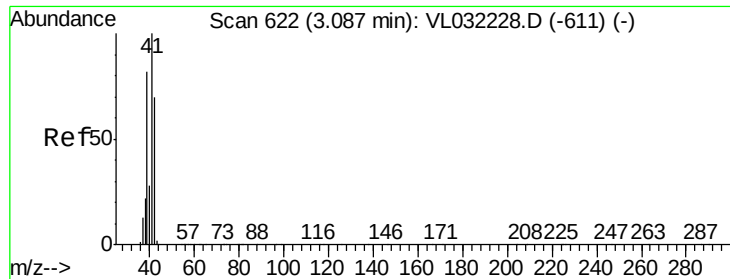
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500000

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Time-->





#9

Propene

Concen: 9.23 ppbv

RT: 3.09 min Scan# 622

Delta R.T. 0.00 min

Lab File: VL032235.D

Acq: 13 Jul 2018 00:11

Instrument :

MSVOA_L

ClientSampleId :

ICVVL071218

Tot Ion: 41 Resp: 904803

Ion Ratio Lower Upper

41 100

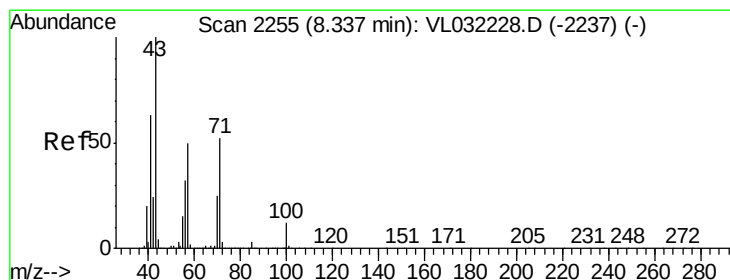
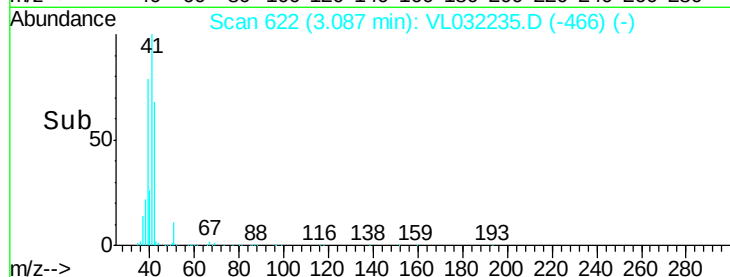
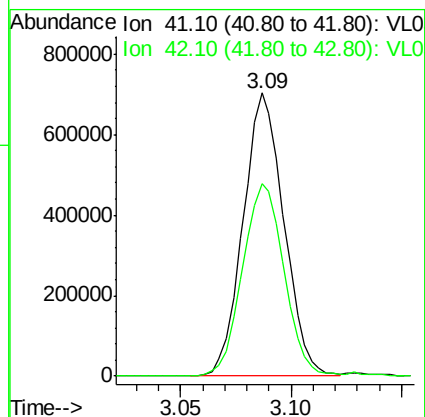
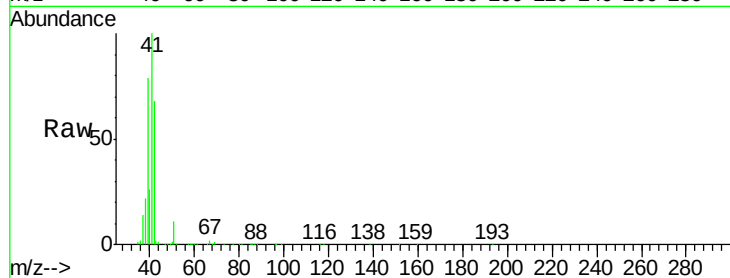
42 70.0 56.2 84.4

Manual Integrations

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#10

Heptane

Concen: 9.48 ppbv

RT: 8.34 min Scan# 2255

Delta R.T. 0.00 min

Lab File: VL032235.D

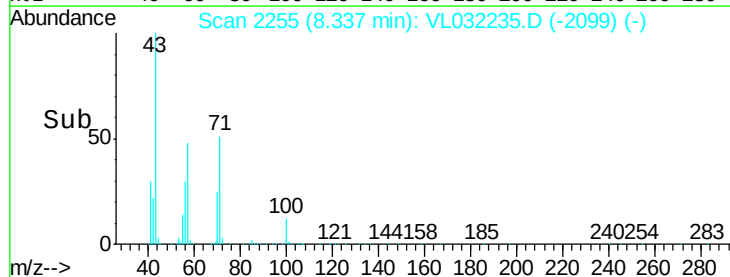
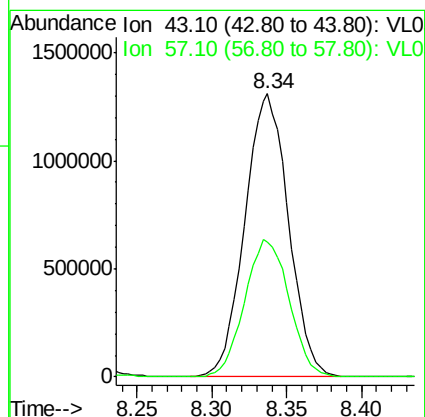
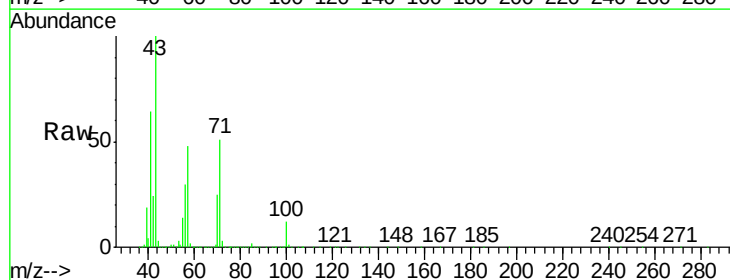
Acq: 13 Jul 2018 00:11

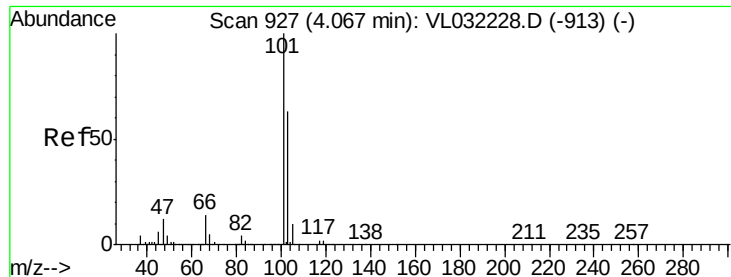
Tgt Ion: 43 Resp: 2638345

Ion Ratio Lower Upper

43 100

57 49.5 40.7 61.1





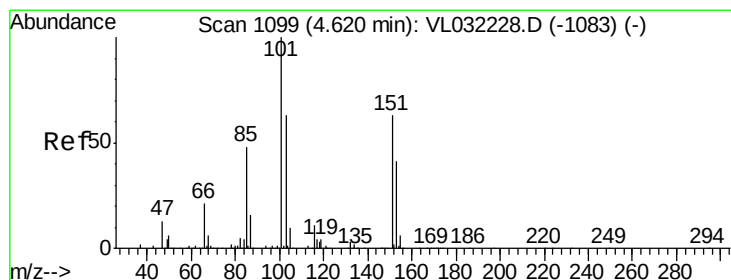
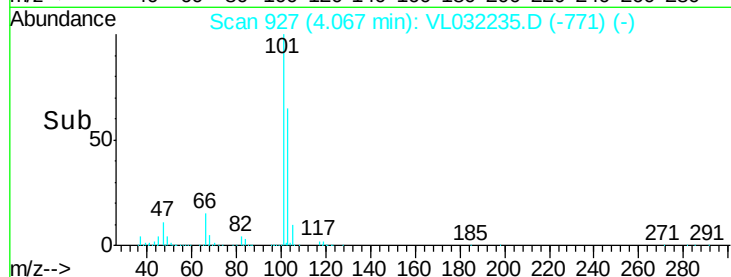
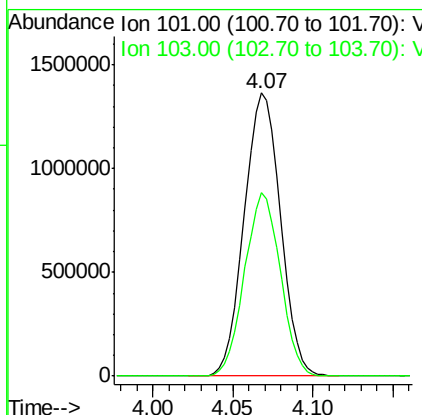
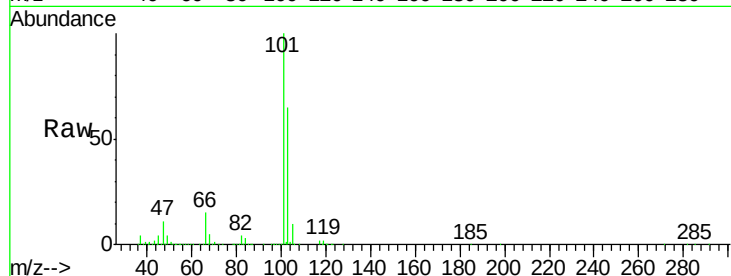
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 Trichlorofluoromethane
 Concen: 8.23 ppbv
 RT: 4.07 min Scan# 927
 Delta R.T. 0.00 min
 Lab File: VL032235.D
 Acq: 13 Jul 2018 00:11

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL071218

Tot Ion:101 Resp: 2121769
 Ion Ratio Lower Upper
 101 100
 103 64.7 50.2 75.2

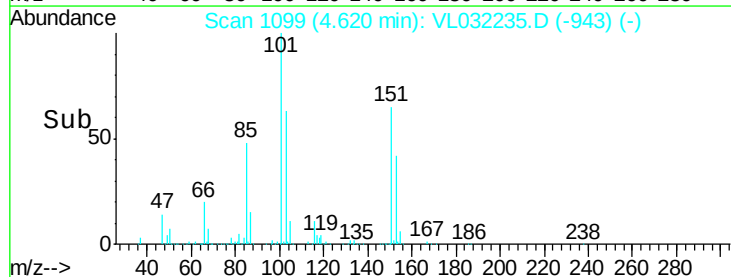
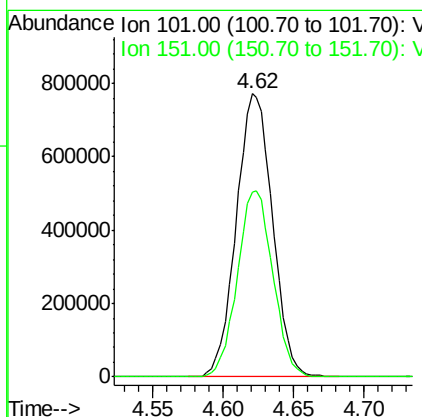
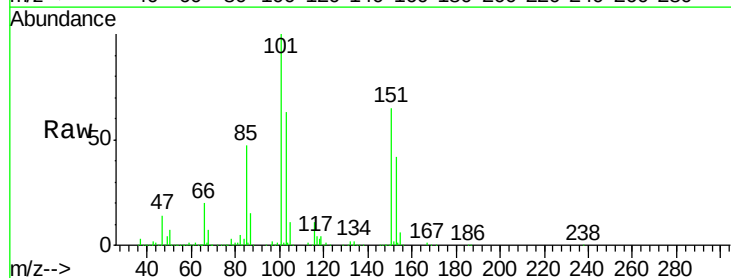
Manual Integrations
 APPROVED

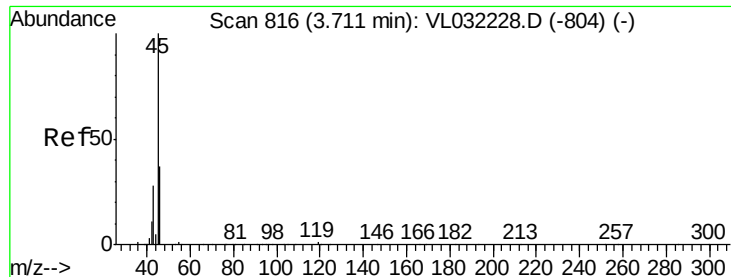
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.42 ppbv
 RT: 4.62 min Scan# 1099
 Delta R.T. 0.00 min
 Lab File: VL032235.D
 Acq: 13 Jul 2018 00:11

Tgt Ion:101 Resp: 1386860
 Ion Ratio Lower Upper
 101 100
 151 64.6 52.2 78.2





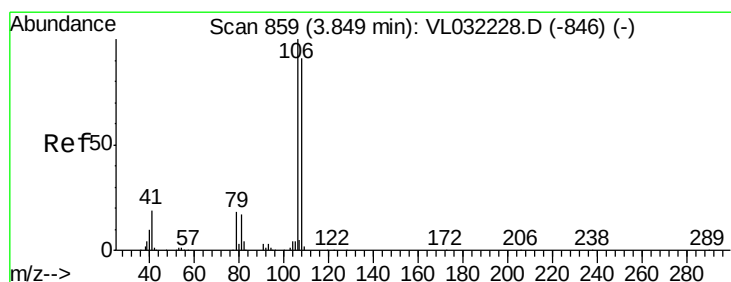
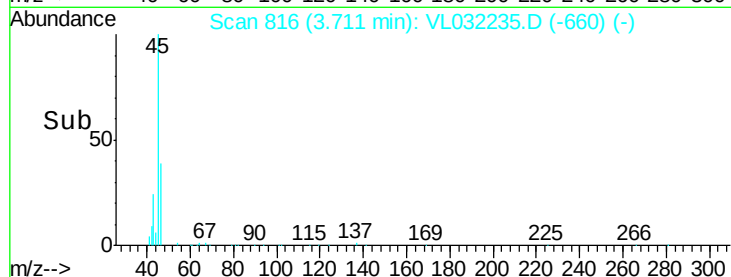
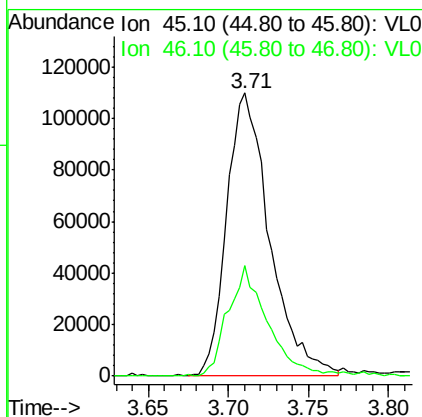
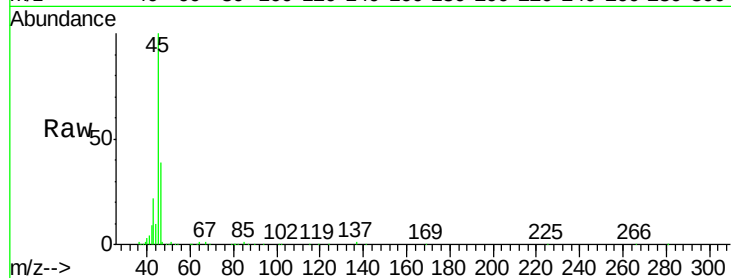
#13
Ethanol
Concen: 7.08 ppbv
RT: 3.71 min Scan# 816
Delta R.T. 0.00 min
Lab File: VL032235.D
Acq: 13 Jul 2018 00:11

Instrument :
MSVOA_L
ClientSampleId :
ICVVL071218

Tot Ion	45	46	Ratio	100	37.4	Resp	200413	Lower	Upper
45	100								
46		37.4					15.5		61.9

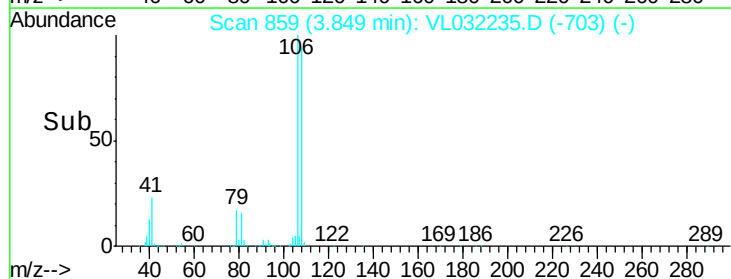
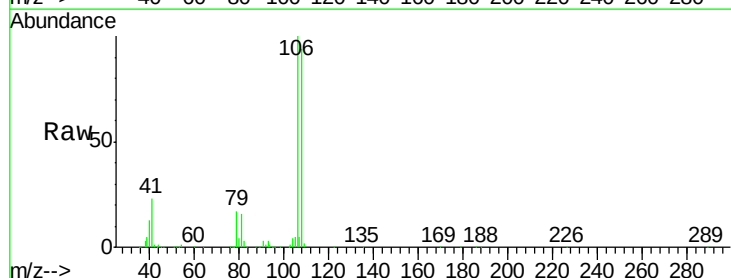
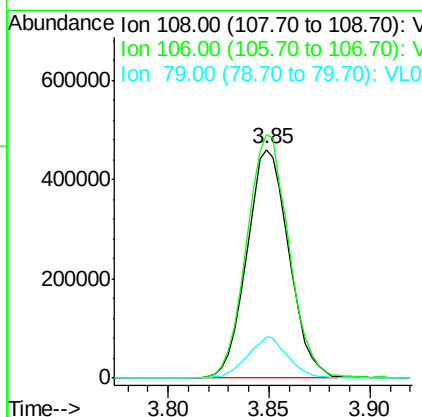
Manual Integrations
APPROVED

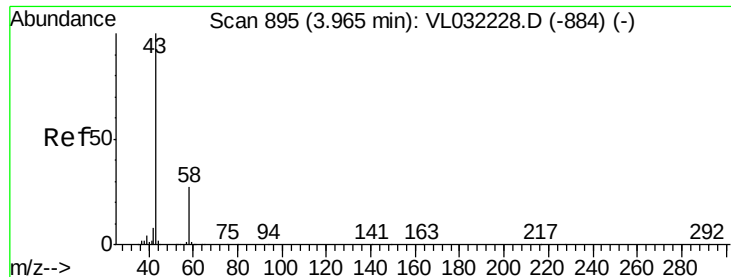
MMDadoda
7/13/2018 5:22:16 PM



#14
Bromoethene
Concen: 8.67 ppbv
RT: 3.85 min Scan# 859
Delta R.T. 0.00 min
Lab File: VL032235.D
Acq: 13 Jul 2018 00:11

Tgt Ion	108	106	79	Ratio	100	107.7	17.4	Resp	673486	Lower	Upper
108	100										
106		107.7								85.5	128.3
79			17.4							14.2	21.4





#15

Acetone

Concen: 7.51 ppbv

RT: 3.96 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL032235.D

Acq: 13 Jul 2018 00:11

Instrument :

MSVOA_L

ClientSampleId :

ICVVL071218

Tot Ion: 43 Resp: 1631287

Ion Ratio Lower Upper

43 100

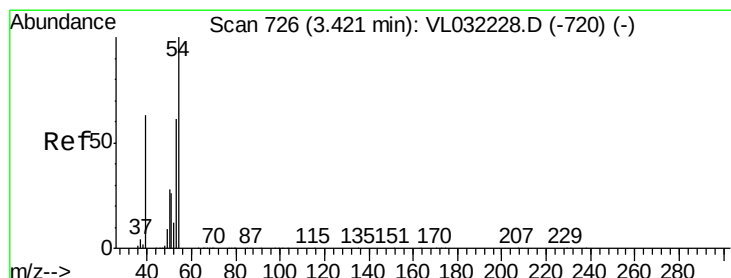
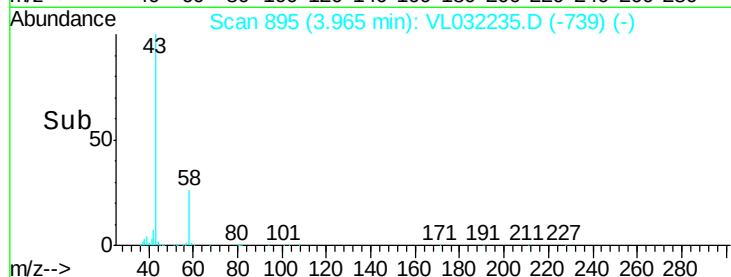
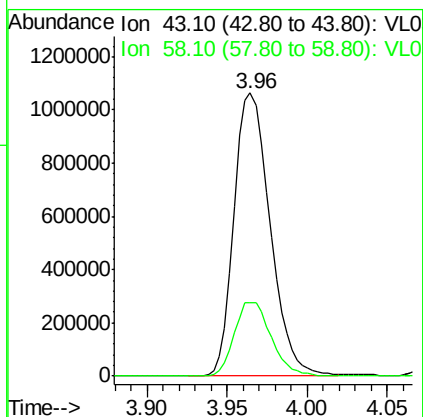
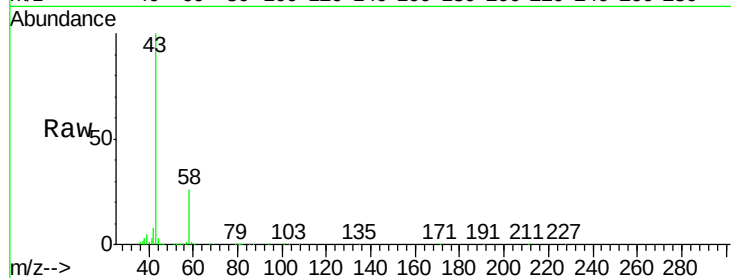
58 27.0 21.5 32.3

Manual Integrations

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#16

1,3-Butadiene

Concen: 9.40 ppbv

RT: 3.42 min Scan# 725

Delta R.T. -0.00 min

Lab File: VL032235.D

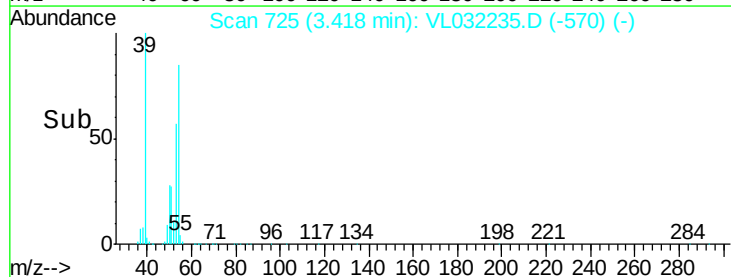
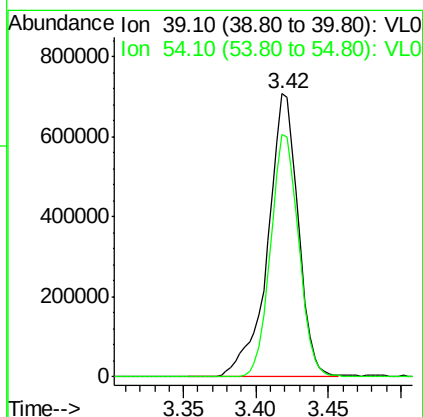
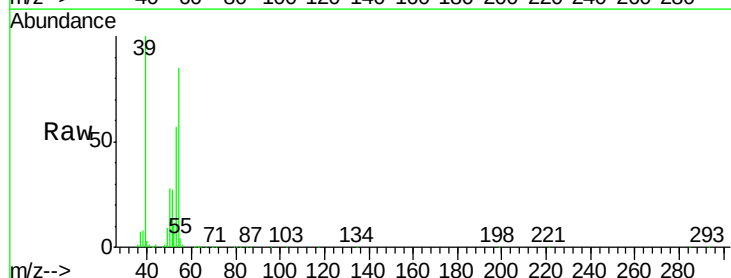
Acq: 13 Jul 2018 00:11

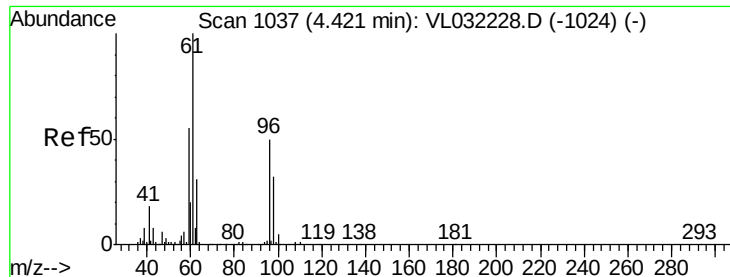
Tgt Ion: 39 Resp: 1031360

Ion Ratio Lower Upper

39 100

54 79.2 70.0 105.0





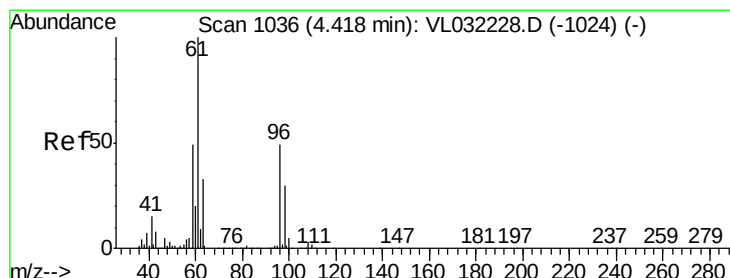
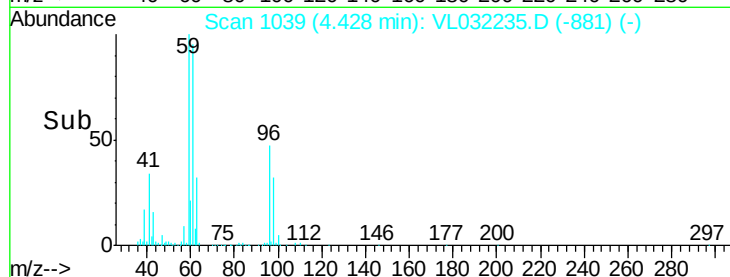
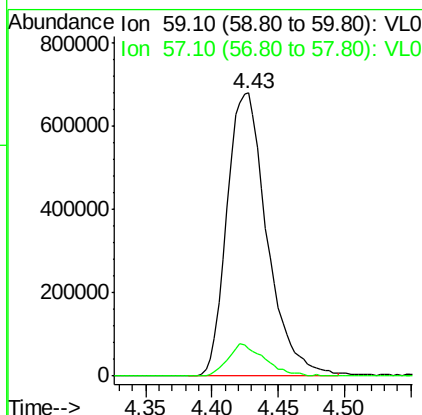
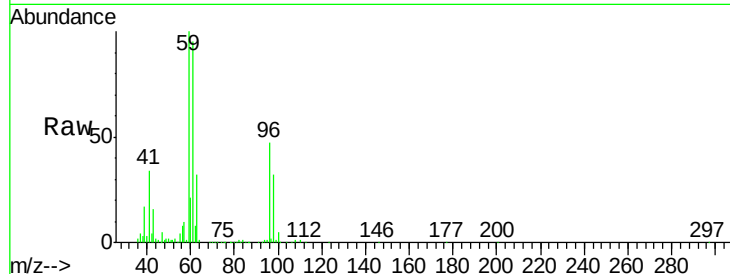
#17
 tert-Butyl alcohol
 Concen: 14.14 ppbv
 RT: 4.43 min Scan# 1039
 Delta R.T. 0.01 min
 Lab File: VL032235.D
 Acq: 13 Jul 2018 00:11

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL071218

Tot Ion: 59 Resp: 1433986
 Ion Ratio Lower Upper
 59 100
 57 10.7 8.4 12.6

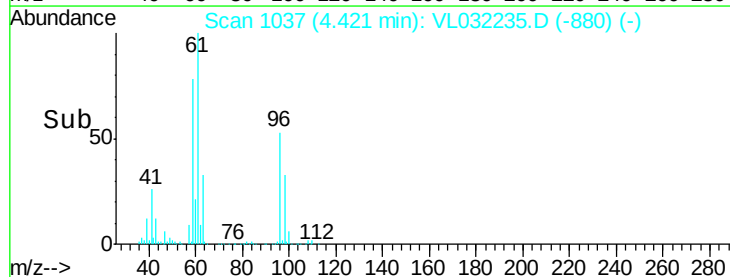
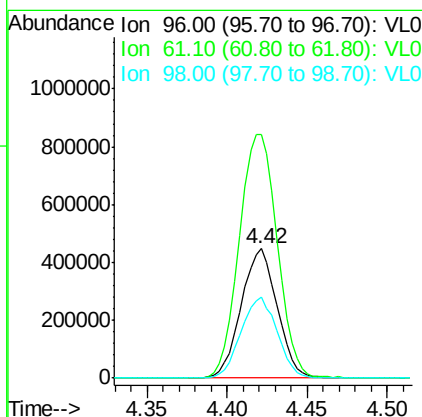
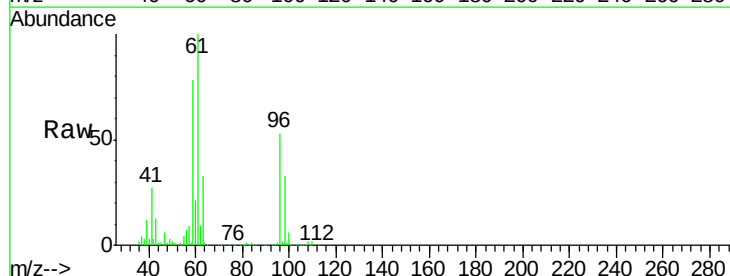
Manual Integrations
 APPROVED

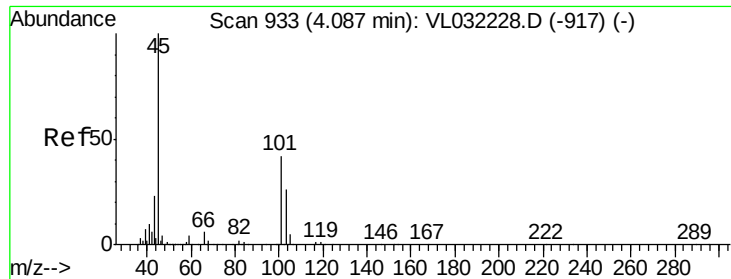
MMDadoda
 7/13/2018 5:22:16 PM



#18
 1,1-Dichloroethene
 Concen: 8.94 ppbv
 RT: 4.42 min Scan# 1037
 Delta R.T. 0.00 min
 Lab File: VL032235.D
 Acq: 13 Jul 2018 00:11

Tgt Ion: 96 Resp: 685105
 Ion Ratio Lower Upper
 96 100
 61 188.2 163.0 244.4
 98 62.6 48.5 72.7





#19

Isopropyl Alcohol

Concen: 8.31 ppbv

RT: 4.09 min Scan# 934

Delta R.T. 0.00 min

Lab File: VL032235.D

Acq: 13 Jul 2018 00:11

Tot Ion: 45 Resp: 1185385

Ion Ratio Lower Upper

45 100

58 1.8 1.3 1.9

Instrument :

MSVOA_L

ClientSampleId :

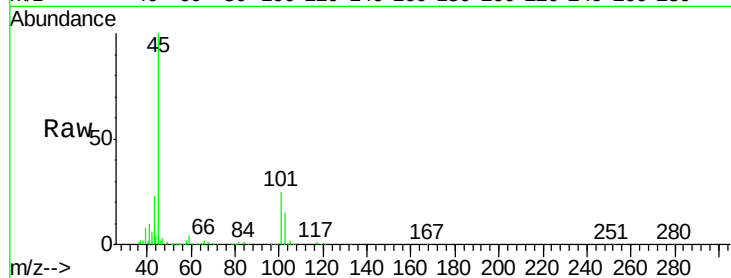
ICVVL071218

Manual Integrations

APPROVED

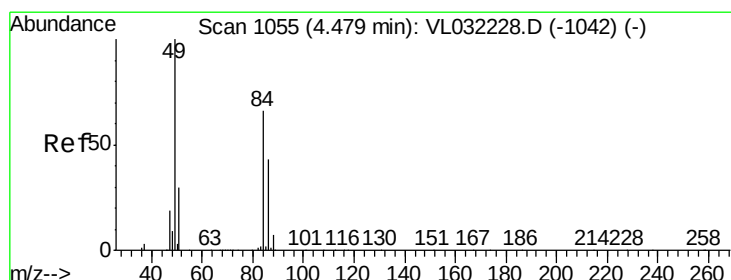
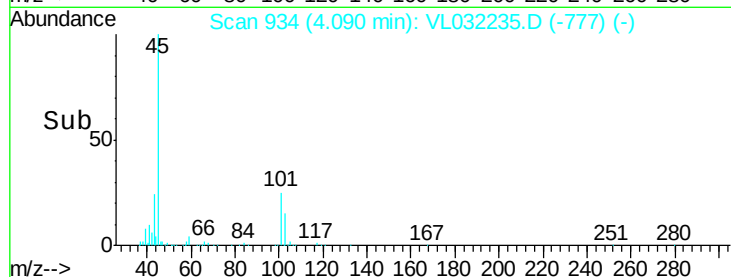
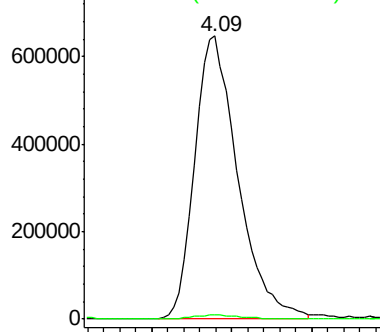
MMDadoda

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 8.03 ppbv

RT: 4.48 min Scan# 1054

Delta R.T. -0.00 min

Lab File: VL032235.D

Acq: 13 Jul 2018 00:11

Tgt Ion: 84 Resp: 591121

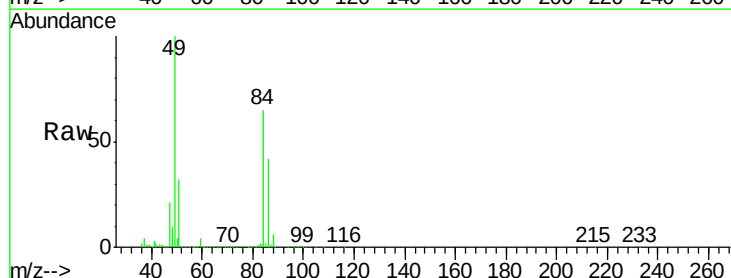
Ion Ratio Lower Upper

84 100

49 152.4 121.8 182.6

51 47.6 36.3 54.5

86 64.2 52.1 78.1

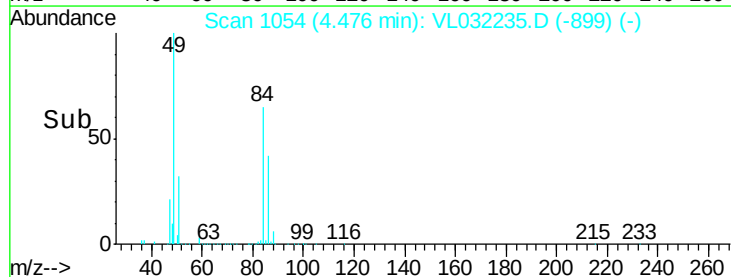
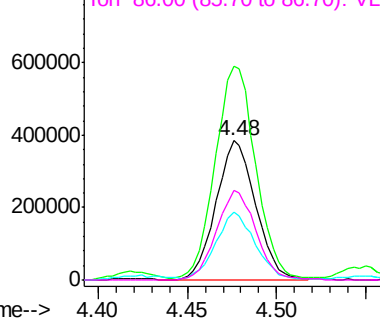


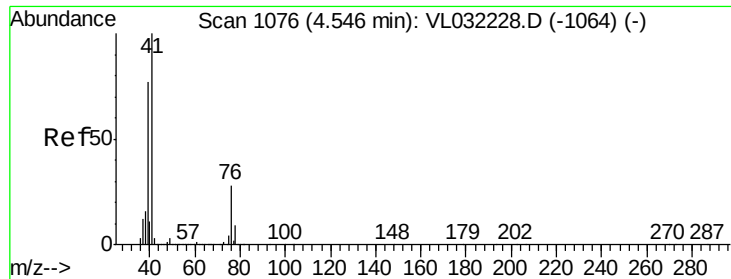
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





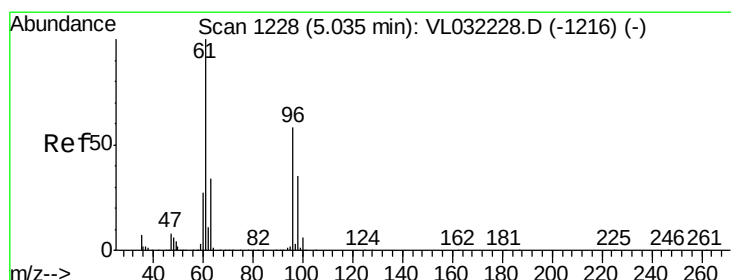
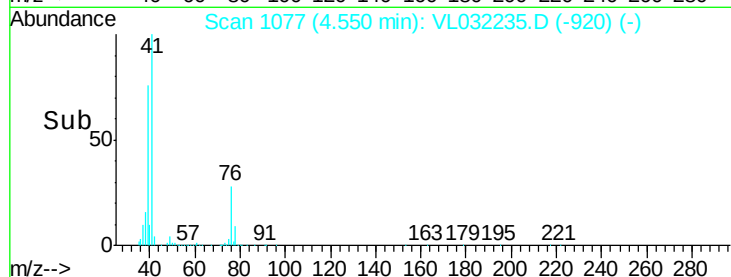
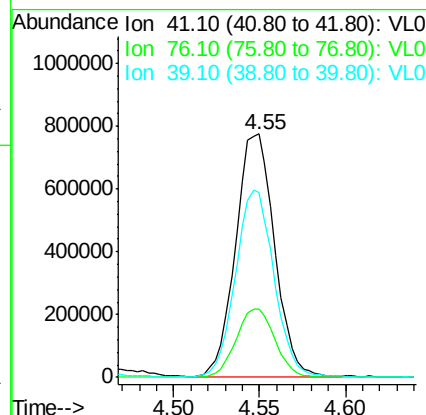
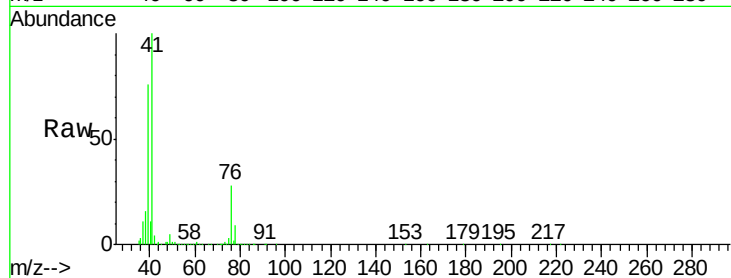
#21
Allvl Chloride
Concen: 9.59 ppbv
RT: 4.55 min Scan# 1077
Delta R.T. 0.00 min
Lab File: VL032235.D
Acq: 13 Jul 2018 00:11

Instrument :
MSVOA_L
ClientSampleId :
ICVVL071218

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.1	22.9	34.3
39	76.6	62.3	93.5

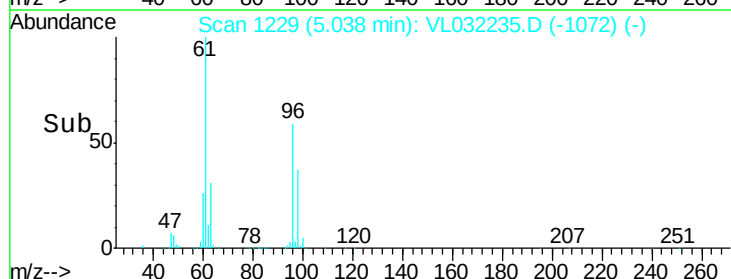
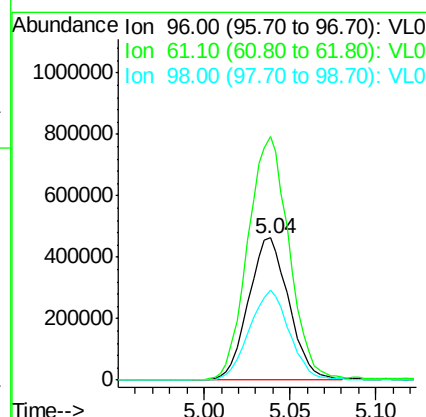
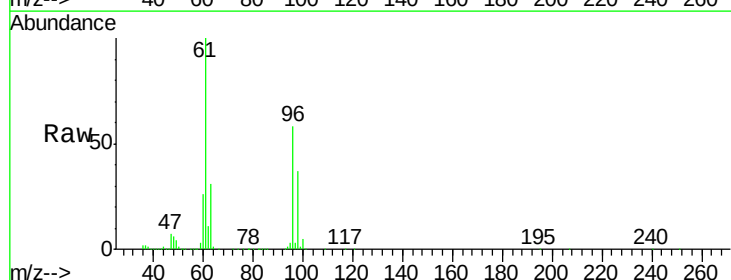
Manual Integrations
APPROVED

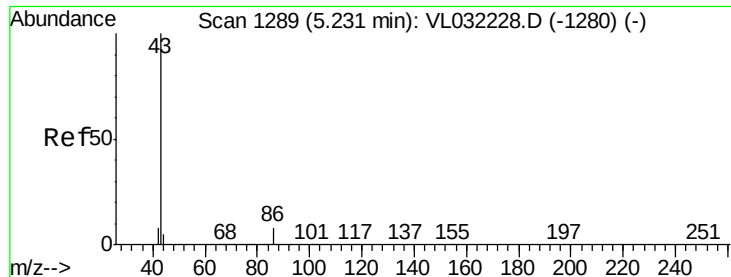
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 10.33 ppbv
RT: 5.04 min Scan# 1229
Delta R.T. 0.00 min
Lab File: VL032235.D
Acq: 13 Jul 2018 00:11

Tgt Ion	Ratio	Lower	Upper
96	100		
61	171.4	139.1	208.7
98	63.2	48.4	72.6





#23

Vinyl Acetate

Concen: 9.89 ppbv

RT: 5.23 min Scan# 1288

Delta R.T. -0.00 min

Lab File: VL032235.D

Acq: 13 Jul 2018 00:11

Instrument :

MSVOA_L

ClientSampleId :

ICVVL071218

Tot Ion: 43 Resp: 3570970

Ion Ratio Lower Upper

43 100

86 7.3 5.9 8.9

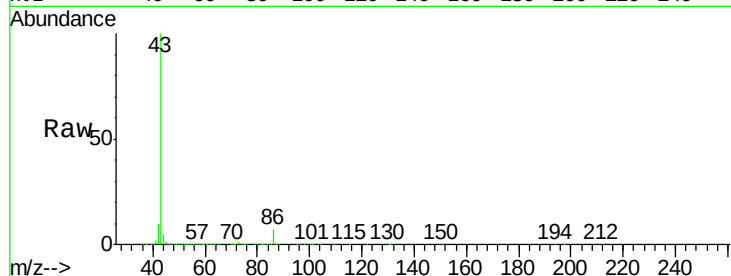
42 9.5 7.0 10.6

44 5.1 4.2 6.2

Manual Integrations
APPROVED

MMDadoda

7/13/2018 5:22:16 PM

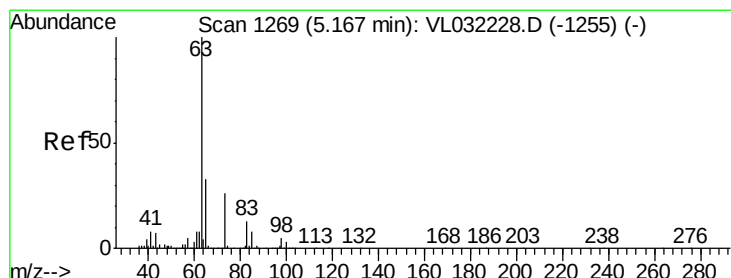
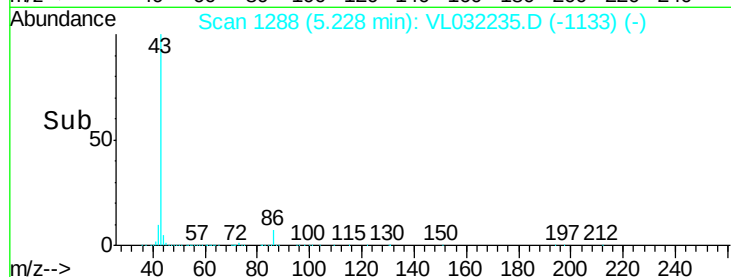
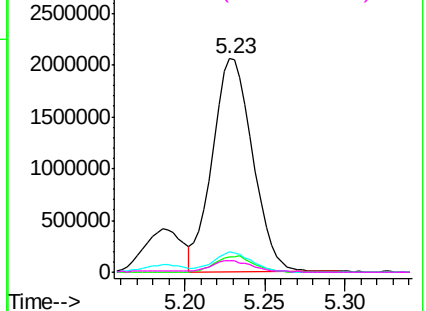


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.28 ppbv

RT: 5.17 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VL032235.D

Acq: 13 Jul 2018 00:11

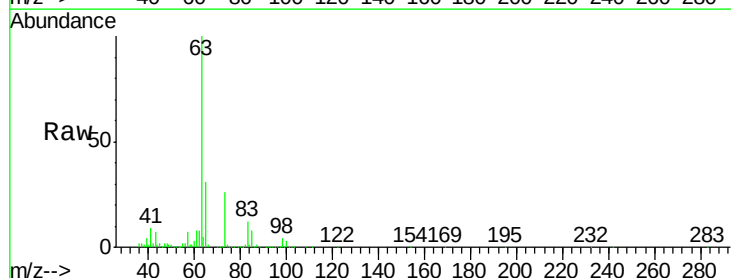
Tgt Ion: 63 Resp: 2352394

Ion Ratio Lower Upper

63 100

98 4.2 2.4 7.1

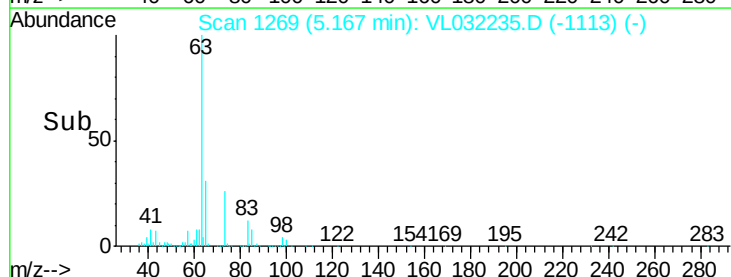
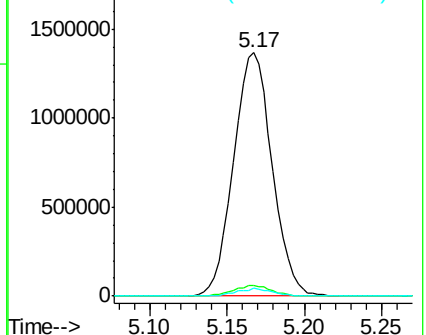
100 3.1 1.5 4.4

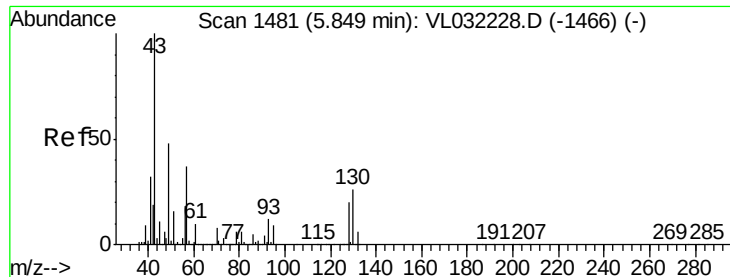


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





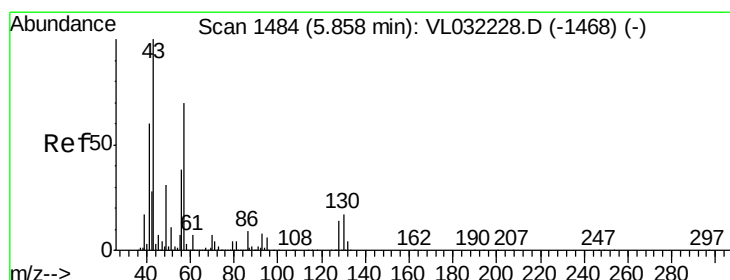
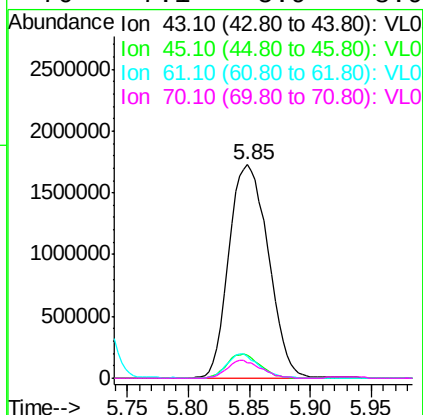
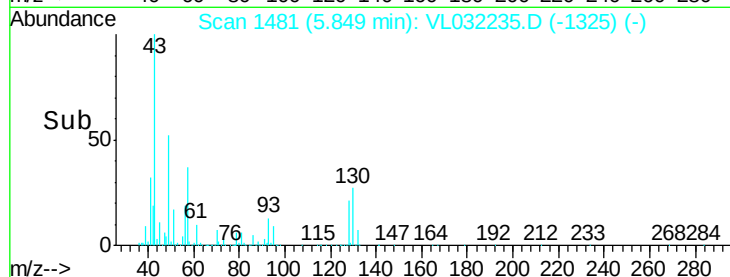
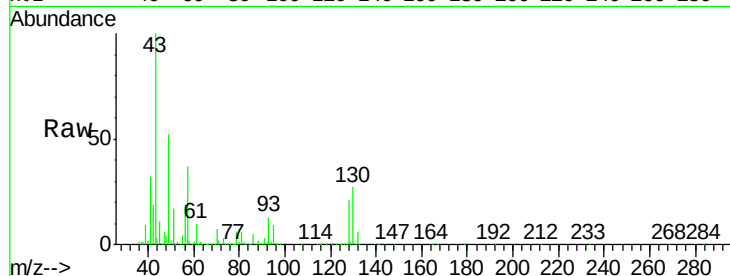
#25
Ethyl Acetate
Concen: 9.01 ppbv
RT: 5.85 min Scan# 1481
Delta R.T. 0.00 min
Lab File: VL032235.D
Acq: 13 Jul 2018 00:11

Instrument :
MSVOA_L
ClientSampleId :
ICVVL071218

Tot Ion	Ion	Ratio	Lower	Upper
43	43	100		
45	45	9.8	8.0	12.0
61	61	9.4	7.7	11.5
70	70	7.1	5.9	8.9

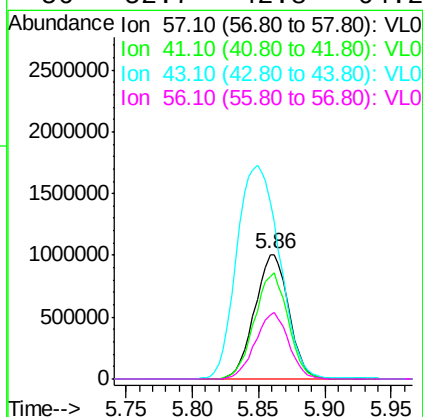
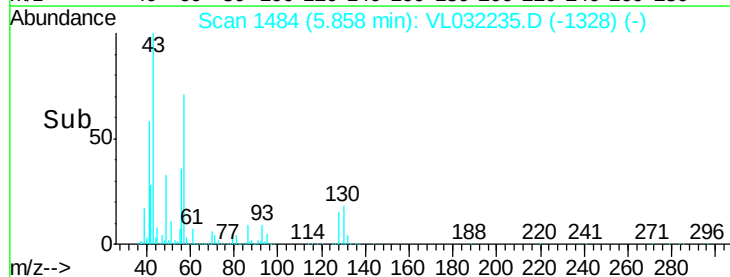
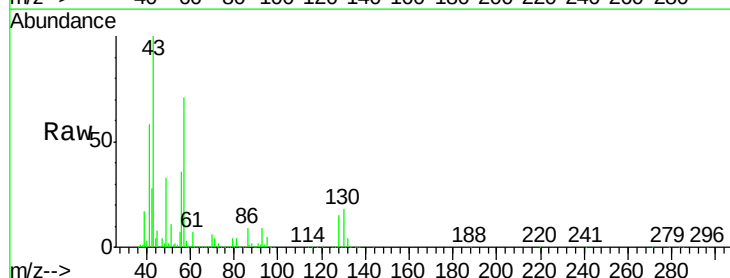
Manual Integrations
APPROVED

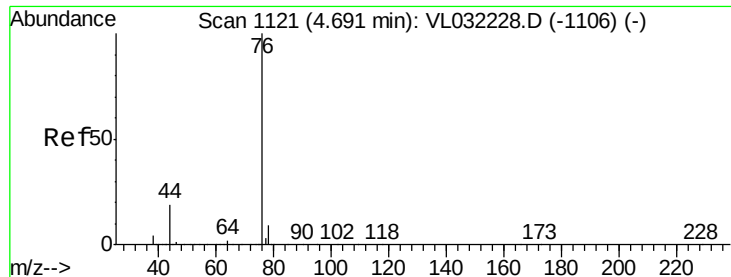
MMDadoda
7/13/2018 5:22:16 PM



#26
Hexane
Concen: 9.18 ppbv
RT: 5.86 min Scan# 1484
Delta R.T. 0.00 min
Lab File: VL032235.D
Acq: 13 Jul 2018 00:11

Tgt Ion	Ion	Ratio	Lower	Upper
57	57	100		
41	41	85.1	68.7	103.1
43	43	215.9	176.2	264.2
56	56	52.7	42.8	64.2





#27

Carbon Disulfide

Concen: 9.87 ppbv

RT: 4.69 min Scan# 1121

Delta R.T. 0.00 min

Lab File: VL032235.D

Acq: 13 Jul 2018 00:11

Instrument :

MSVOA_L

ClientSampleId :

ICVVL071218

Tot Ion: 76 Resp: 1731093

Ion Ratio Lower Upper

76 100

44 19.1 15.1 22.7

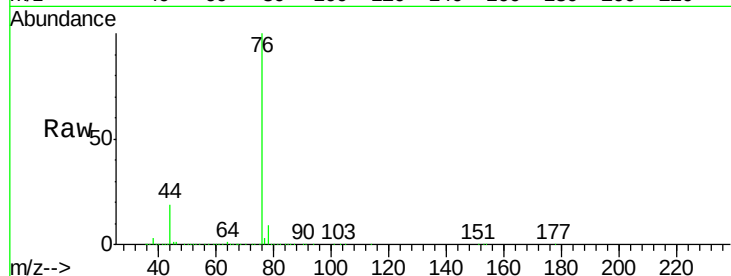
78 9.0 7.4 11.0

Manual Integrations

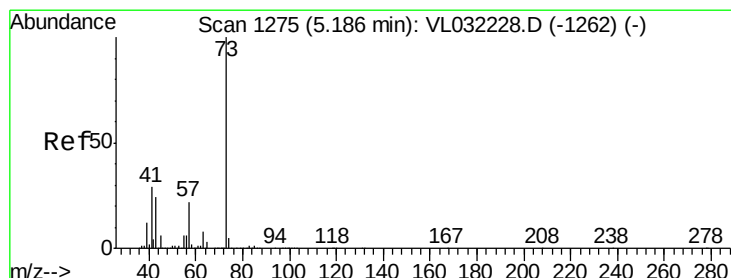
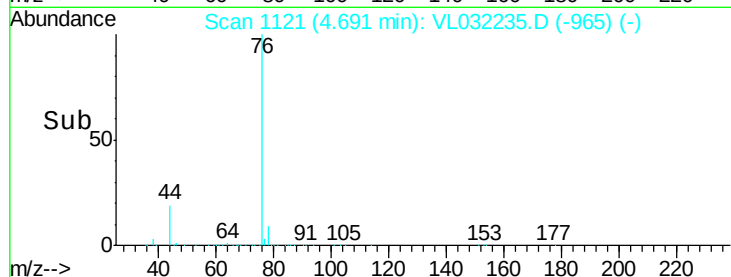
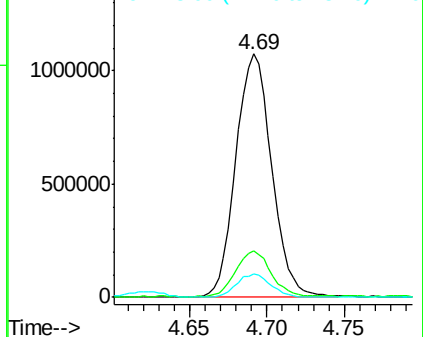
APPROVED

MMDadoda

7/13/2018 5:22:16 PM



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



#28

Methyl tert-Butyl Ether

Concen: 10.06 ppbv

RT: 5.19 min Scan# 1275

Delta R.T. 0.00 min

Lab File: VL032235.D

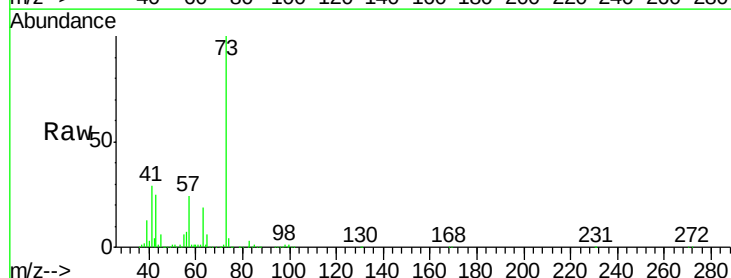
Acq: 13 Jul 2018 00:11

Tgt Ion: 73 Resp: 3104697

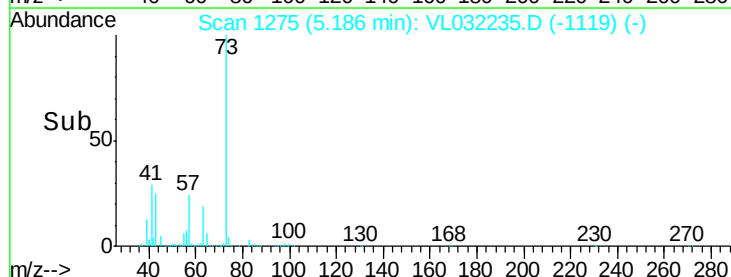
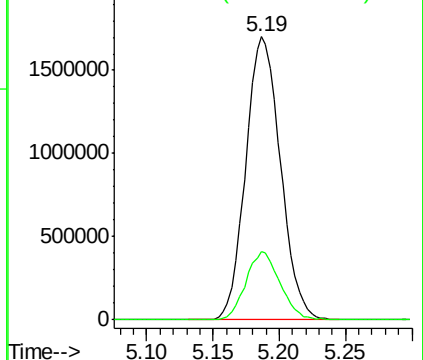
Ion Ratio Lower Upper

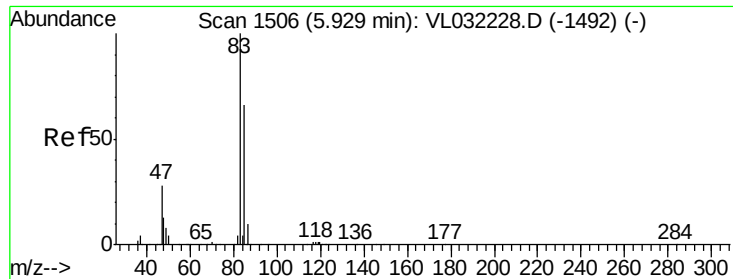
73 100

57 23.8 18.6 27.8



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





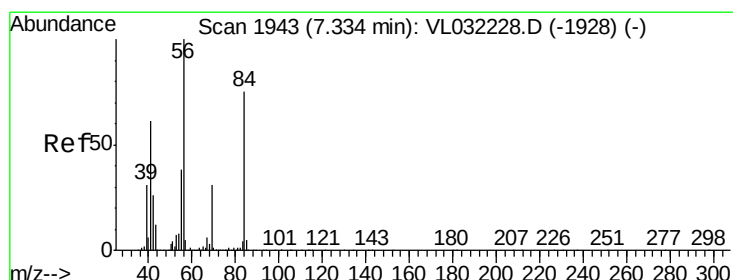
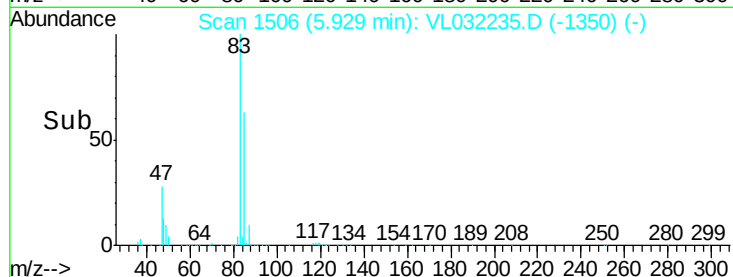
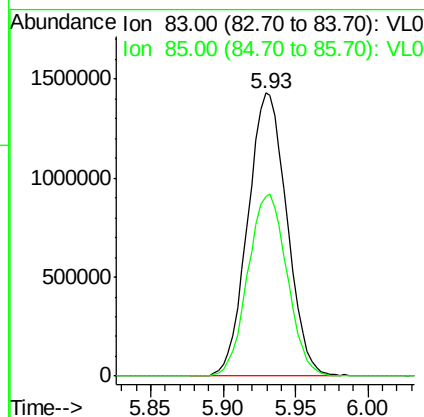
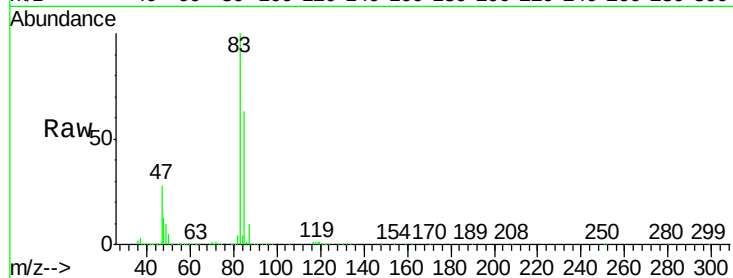
#29
Chloroform
Concen: 8.87 ppbv
RT: 5.93 min Scan# 1506
Delta R.T. 0.00 min
Lab File: VL032235.D
Acq: 13 Jul 2018 00:11

Instrument :
MSVOA_L
ClientSampleId :
ICVVL071218

Tot Ion: 83 Resp: 2686054
Ion Ratio Lower Upper
83 100
85 63.3 52.7 79.1

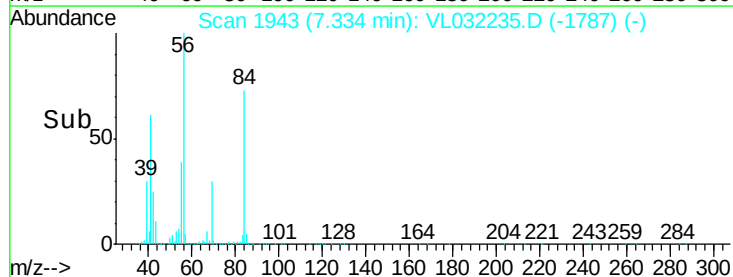
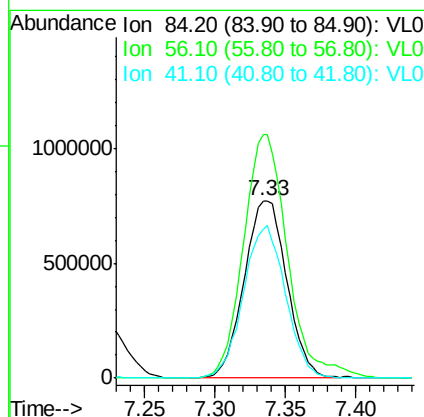
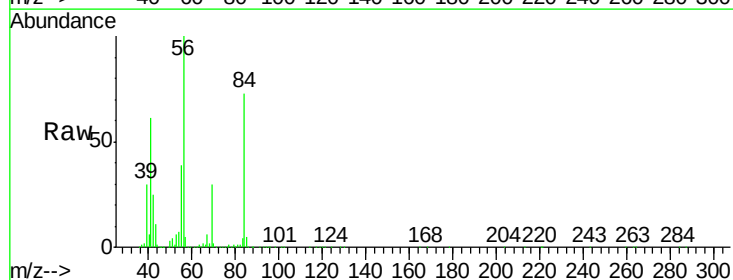
Manual Integrations
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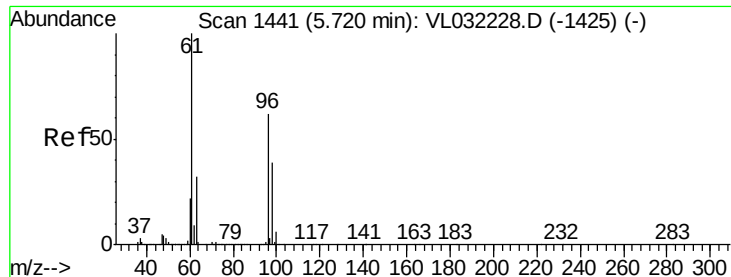
MMDadoda
7/13/2018 5:22:16 PM



#30
Cyclohexane
Concen: 9.48 ppbv
RT: 7.33 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VL032235.D
Acq: 13 Jul 2018 00:11

Tgt Ion: 84 Resp: 1640366
Ion Ratio Lower Upper
84 100
56 142.2 112.6 168.8
41 84.3 67.0 100.6





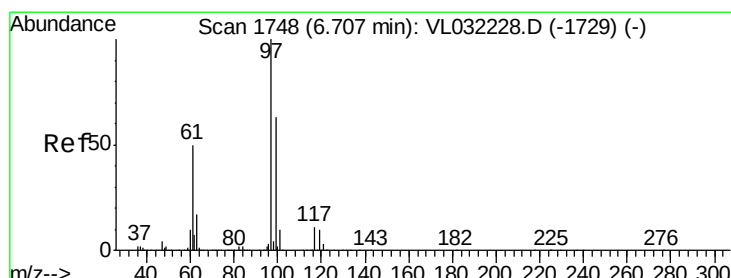
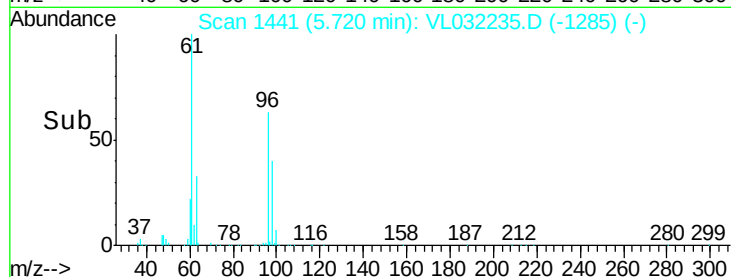
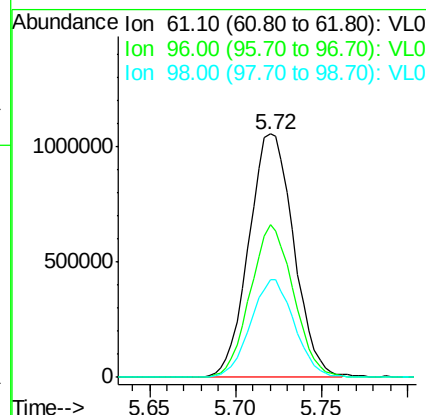
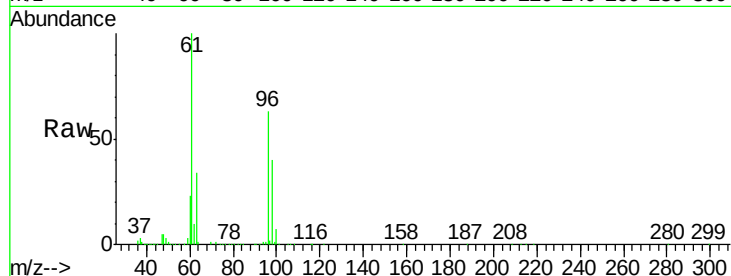
#31
 cis-1,2-Dichloroethene
 Concen: 9.75 ppbv
 RT: 5.72 min Scan# 1441
 Delta R.T. 0.00 min
 Lab File: VL032235.D
 Acq: 13 Jul 2018 00:11

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL071218

Tot Ion	Ratio	Lower	Upper
61	100		
96	62.8	49.8	74.8
98	39.9	31.4	47.2

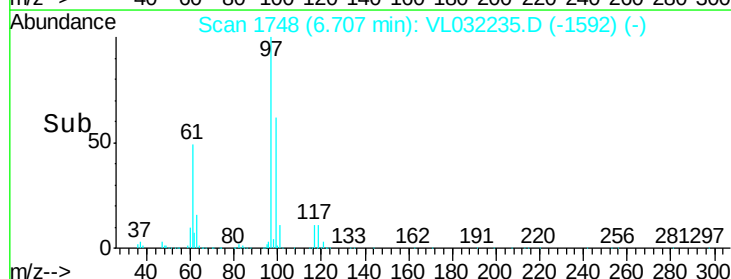
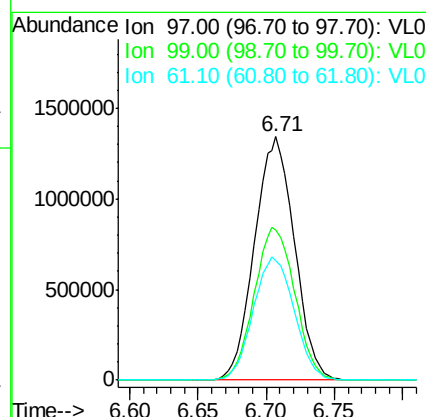
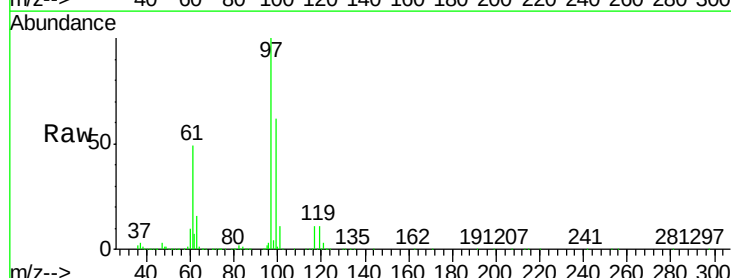
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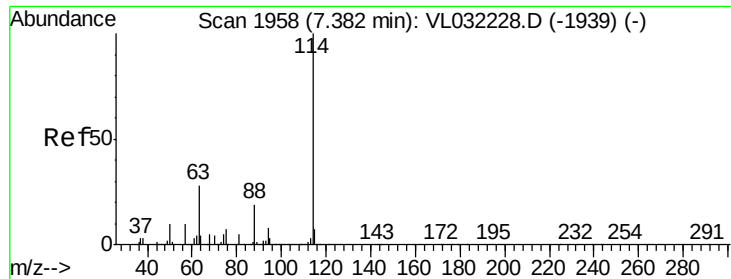
MMDadoda
 7/13/2018 5:22:16 PM



#32
 1,1,1-Trichloroethane
 Concen: 9.28 ppbv
 RT: 6.71 min Scan# 1748
 Delta R.T. 0.00 min
 Lab File: VL032235.D
 Acq: 13 Jul 2018 00:11

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.2	76.8
61	51.9	41.3	61.9





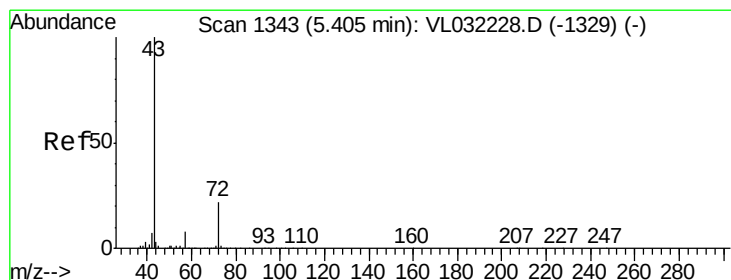
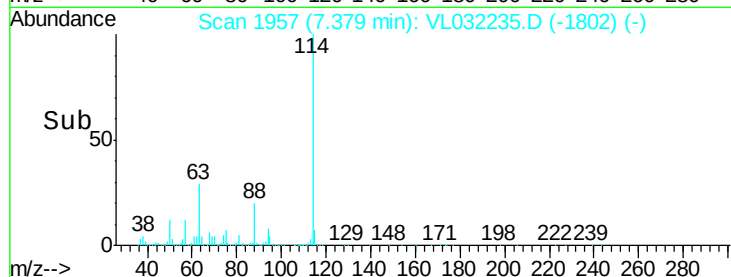
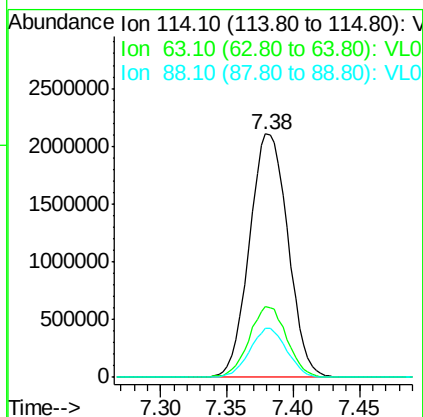
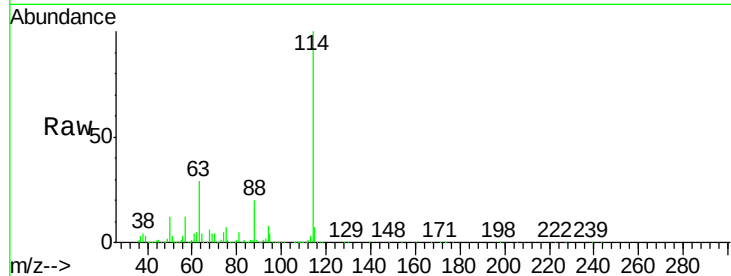
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.38 min Scan# 1957
 Delta R.T. -0.00 min
 Lab File: VL032235.D
 Acq: 13 Jul 2018 00:11

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL071218

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.6	22.5	33.7
88	19.4	15.4	23.0

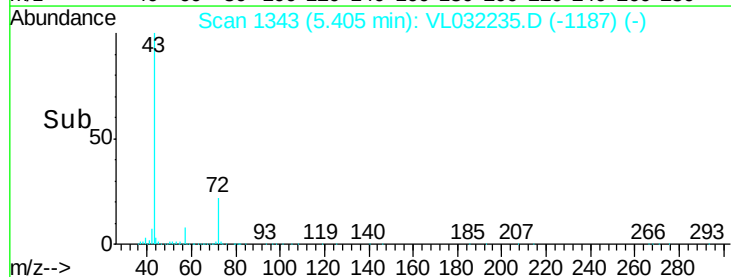
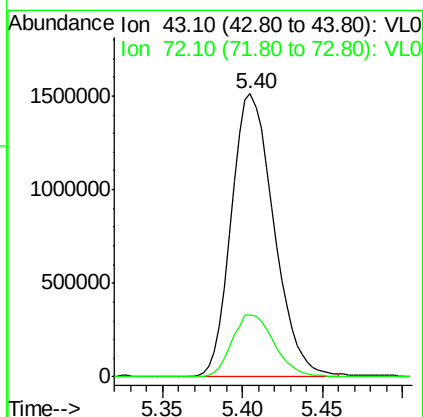
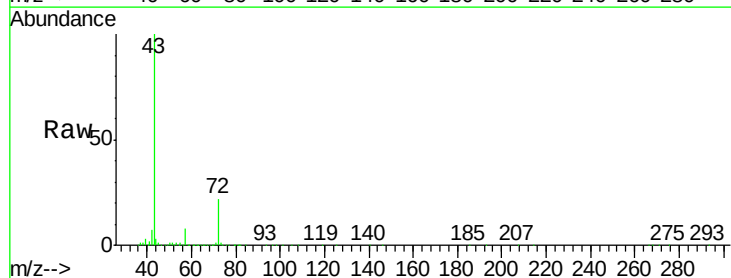
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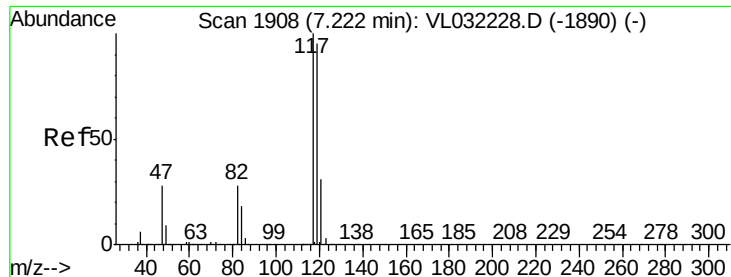
MMDadoda
 7/13/2018 5:22:16 PM



#34
 2-Butanone
 Concen: 9.43 ppbv
 RT: 5.40 min Scan# 1343
 Delta R.T. 0.00 min
 Lab File: VL032235.D
 Acq: 13 Jul 2018 00:11

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.0	18.1	27.1





#35

Carbon Tetrachloride

Concen: 9.36 ppbv

RT: 7.22 min Scan# 1908

Delta R.T. 0.00 min

Lab File: VL032235.D

Acq: 13 Jul 2018 00:11

Instrument :

MSVOA_L

ClientSampleId :

ICVVL071218

Tot Ion:117 Resp: 2695999

Ion Ratio Lower Upper

117 100

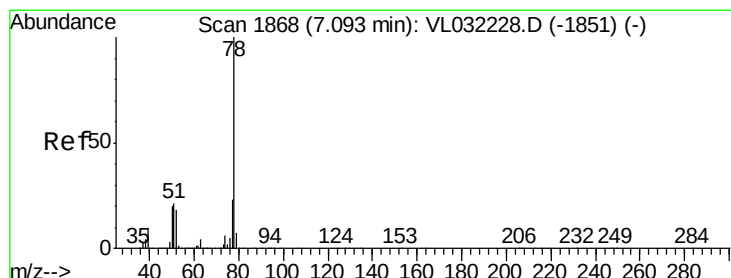
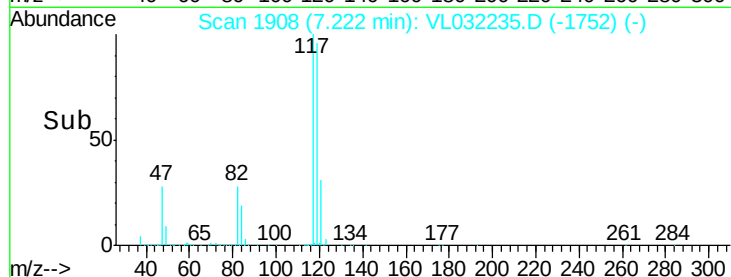
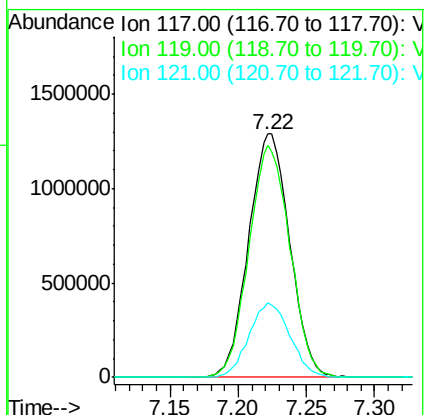
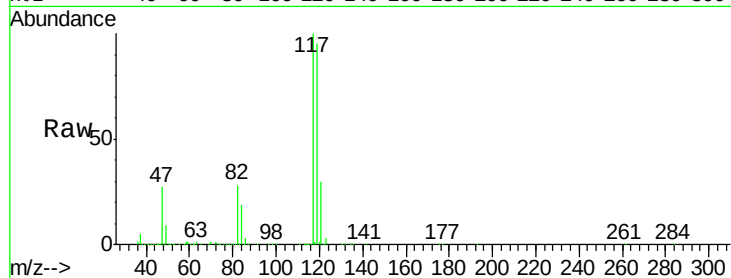
119 95.2 75.7 113.5

121 30.5 24.6 37.0

Manual Integrations
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#36

Benzene

Concen: 9.26 ppbv

RT: 7.09 min Scan# 1868

Delta R.T. 0.00 min

Lab File: VL032235.D

Acq: 13 Jul 2018 00:11

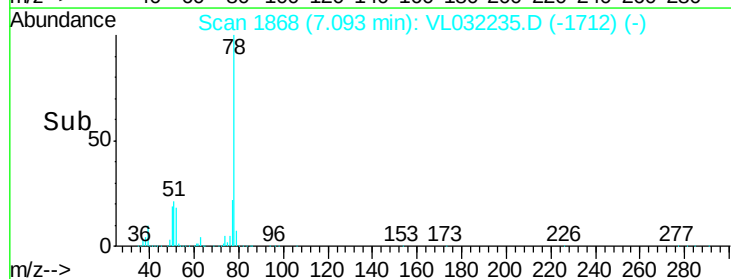
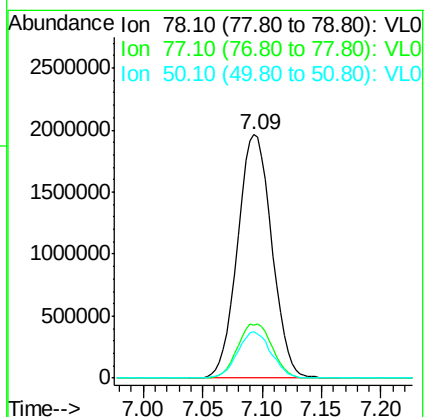
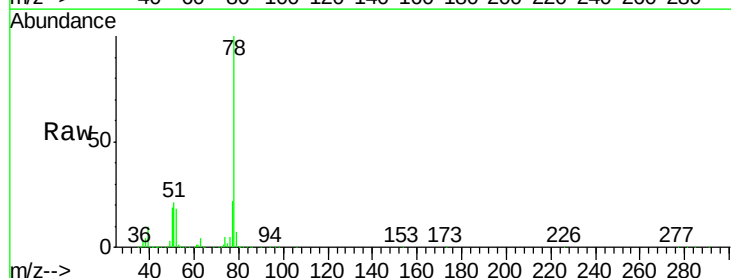
Tgt Ion: 78 Resp: 3916755

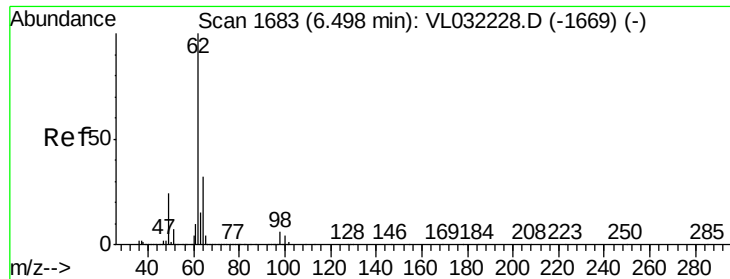
Ion Ratio Lower Upper

78 100

77 22.0 18.0 27.0

50 19.0 15.8 23.8





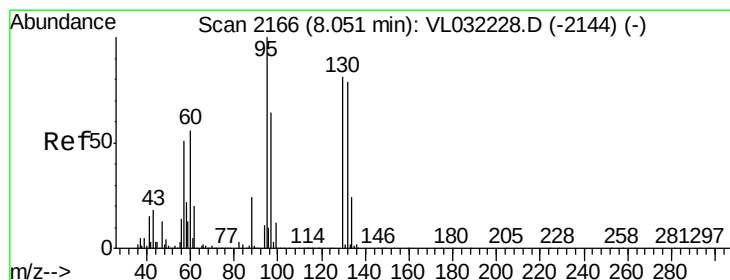
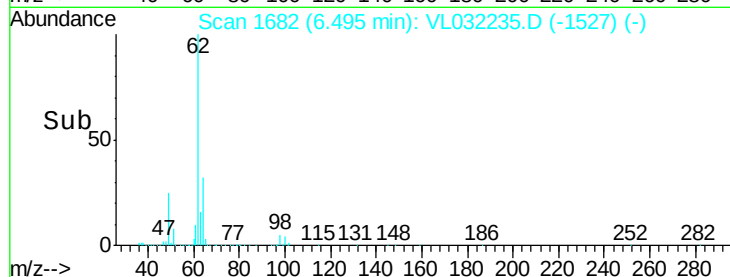
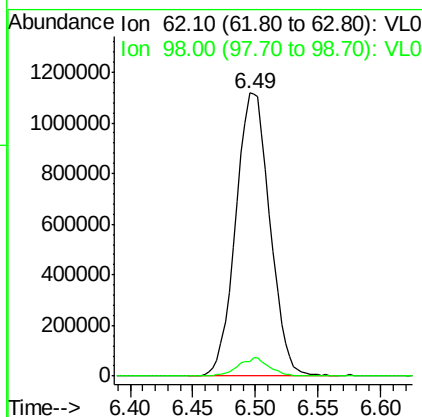
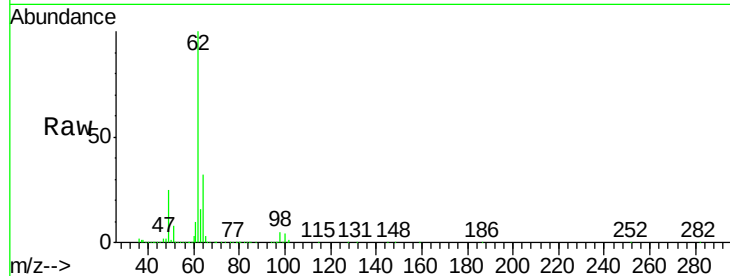
#37
 1,2-Dichloroethane
 Concen: 9.16 ppbv
 RT: 6.49 min Scan# 1682
 Delta R.T. -0.00 min
 Lab File: VL032235.D
 Acq: 13 Jul 2018 00:11

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL071218

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.0	4.6	7.0

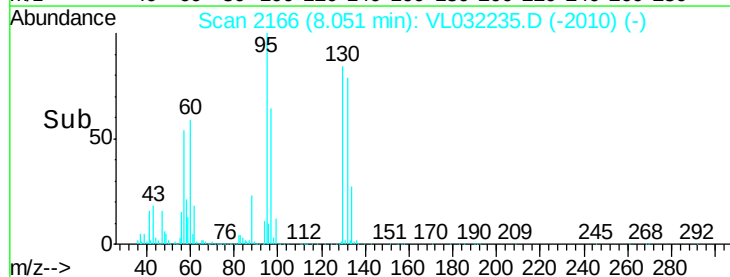
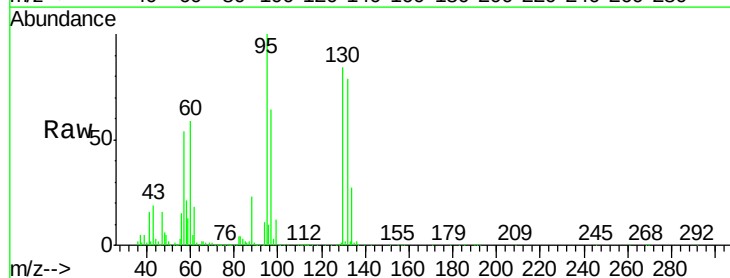
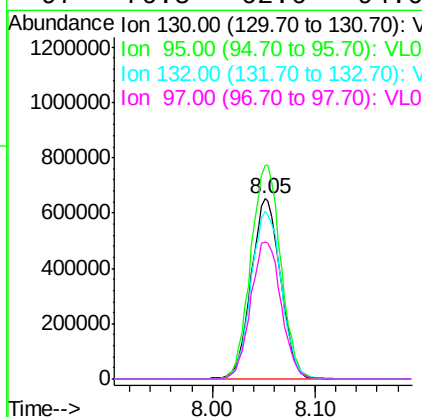
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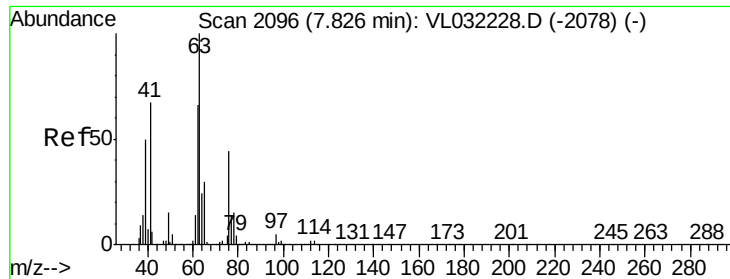
MMDadoda
 7/13/2018 5:22:16 PM



#38
 Trichloroethene
 Concen: 8.91 ppbv
 RT: 8.05 min Scan# 2166
 Delta R.T. 0.00 min
 Lab File: VL032235.D
 Acq: 13 Jul 2018 00:11

Tgt Ion	Ratio	Lower	Upper
130	100		
95	118.7	98.3	147.5
132	93.5	78.1	117.1
97	76.5	62.6	94.0





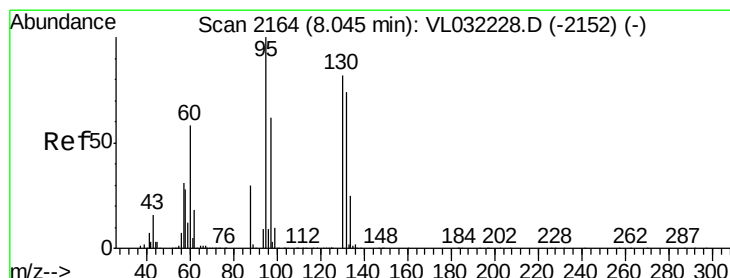
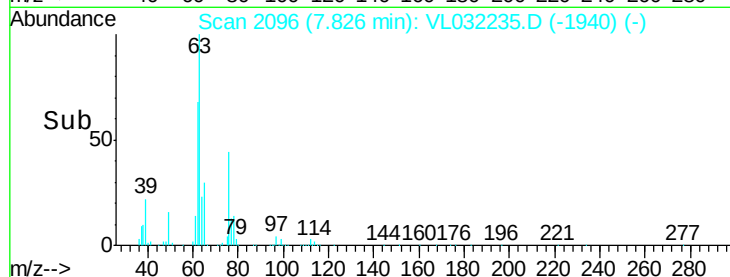
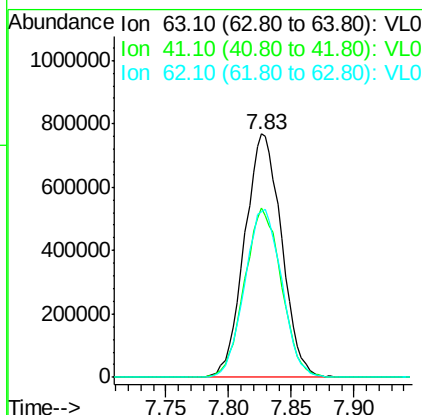
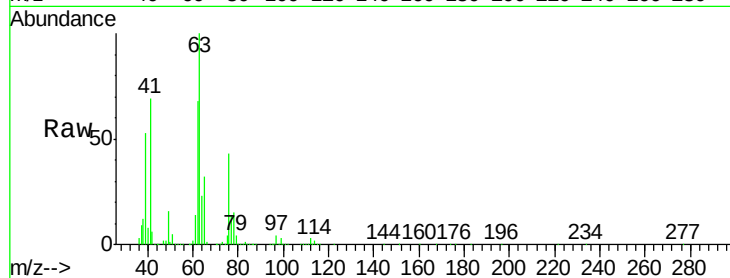
#39
 1,2-Dichloropropane
 Concen: 9.37 ppbv
 RT: 7.83 min Scan# 2096
 Delta R.T. 0.00 min
 Lab File: VL032235.D
 Acq: 13 Jul 2018 00:11

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL071218

Tot Ion: 63 Resp: 1574473
 Ion Ratio Lower Upper
 63 100
 41 69.4 53.8 80.6
 62 68.1 53.1 79.7

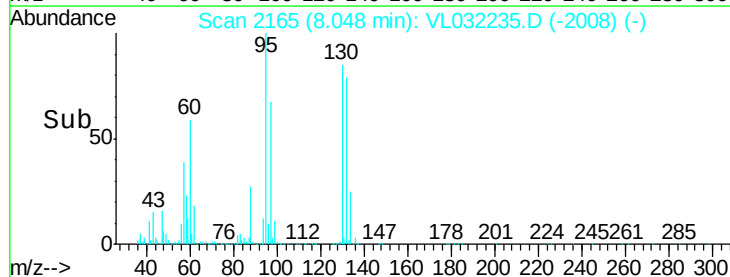
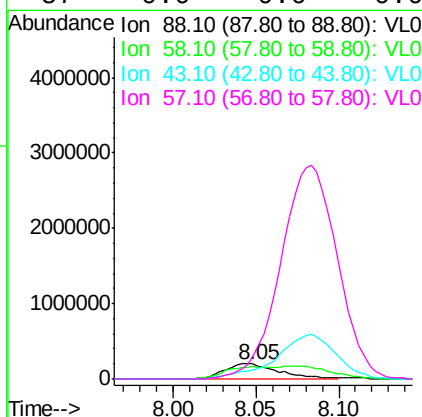
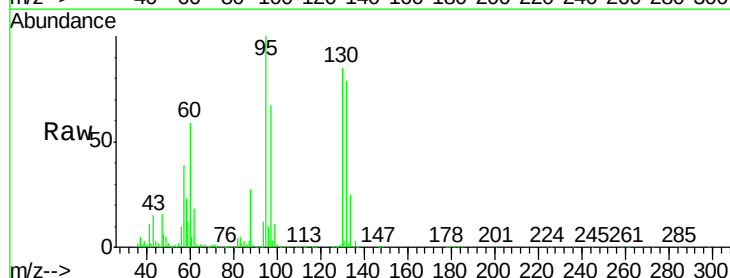
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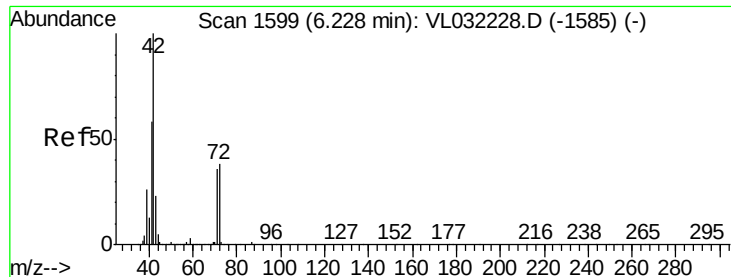
MMDadoda
 7/13/2018 5:22:16 PM



#40
 1,4-Dioxane
 Concen: 7.97 ppbv
 RT: 8.05 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VL032235.D
 Acq: 13 Jul 2018 00:11

Tgt Ion: 88 Resp: 459485
 Ion Ratio Lower Upper
 88 100
 58 70.2 117.4 176.2#
 43 0.0 0.0 0.0
 57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 10.03 ppbv

RT: 6.23 min Scan# 1599

Delta R.T. 0.00 min

Lab File: VL032235.D

Acq: 13 Jul 2018 00:11

Instrument :

MSVOA_L

ClientSampleId :

ICVVL071218

Tot Ion: 42 Resp: 1627359

Ion Ratio Lower Upper

42 100

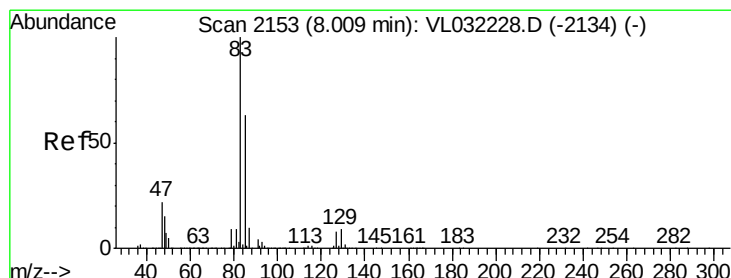
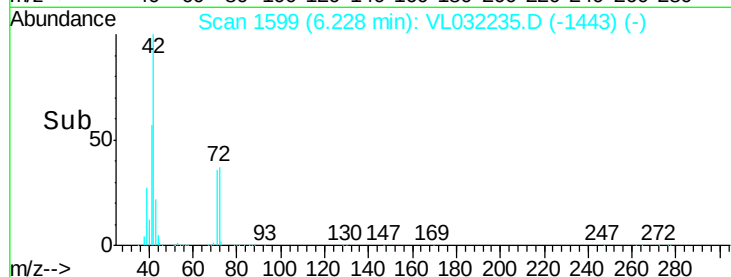
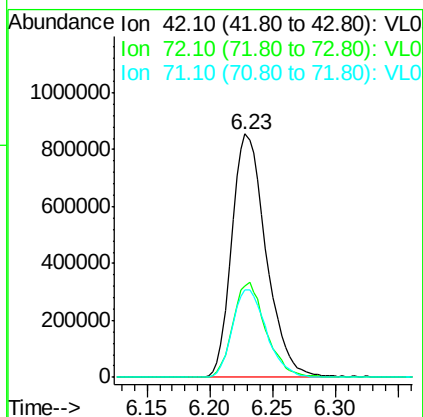
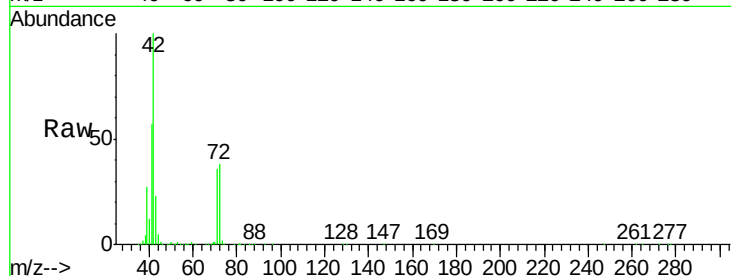
72 37.6 30.6 45.8

71 36.1 29.7 44.5

Manual Integrations
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7/13/2018 5:22:16 PM



#42

Bromodichloromethane

Concen: 9.31 ppbv

RT: 8.01 min Scan# 2153

Delta R.T. 0.00 min

Lab File: VL032235.D

Acq: 13 Jul 2018 00:11

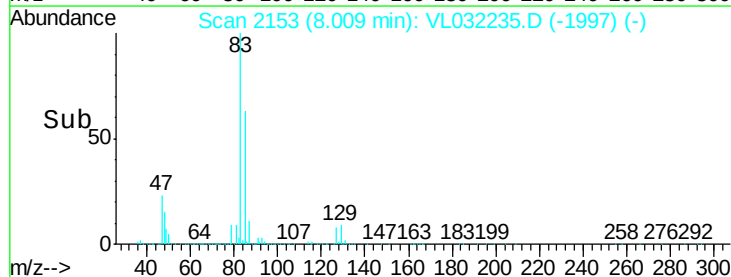
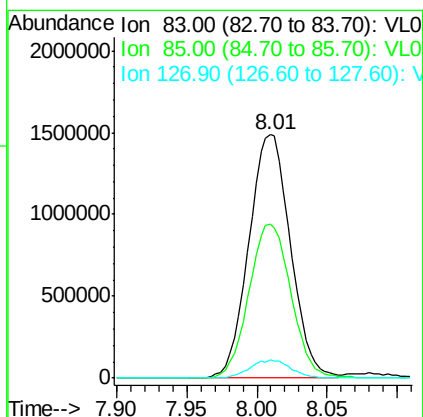
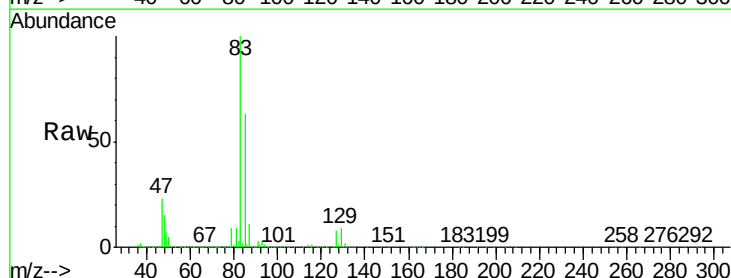
Tgt Ion: 83 Resp: 3070089

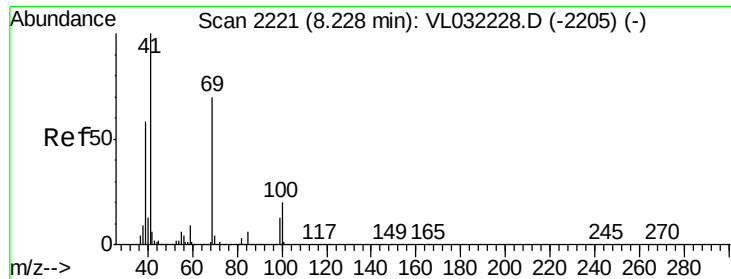
Ion Ratio Lower Upper

83 100

85 63.4 50.6 76.0

127 7.7 6.1 9.1





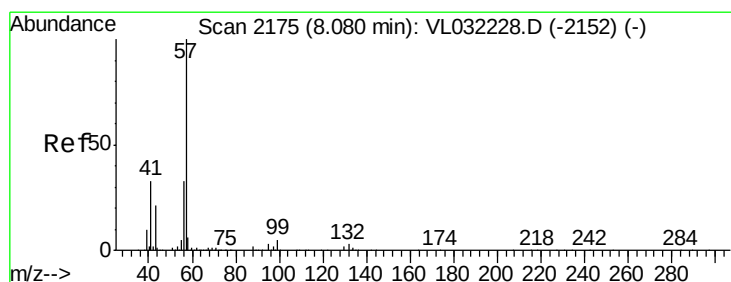
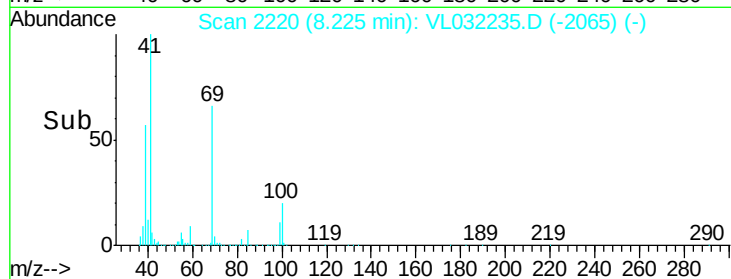
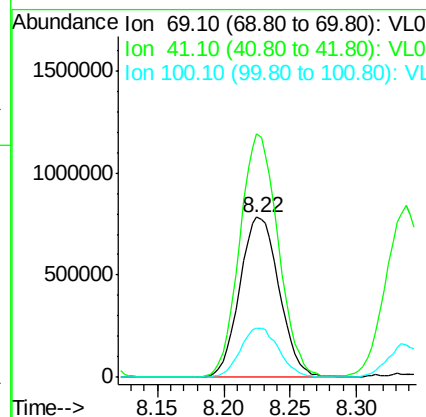
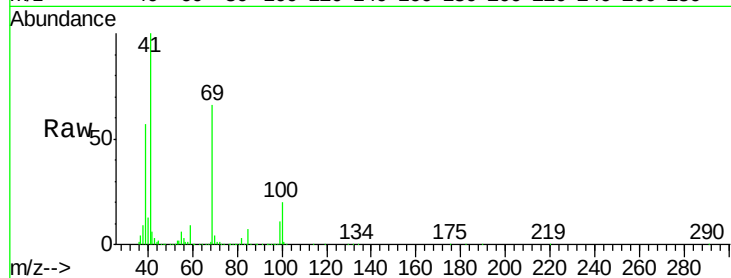
#43
Methvl Methacrylate
Concen: 9.91 ppbv
RT: 8.22 min Scan# 2220
Delta R.T. -0.00 min
Lab File: VL032235.D
Acq: 13 Jul 2018 00:11

Instrument :
MSVOA_L
ClientSampleId :
ICVVL071218

Tot Ion: 69 Resp: 1620330
Ion Ratio Lower Upper
69 100
41 148.0 116.3 174.5
100 30.2 23.8 35.8

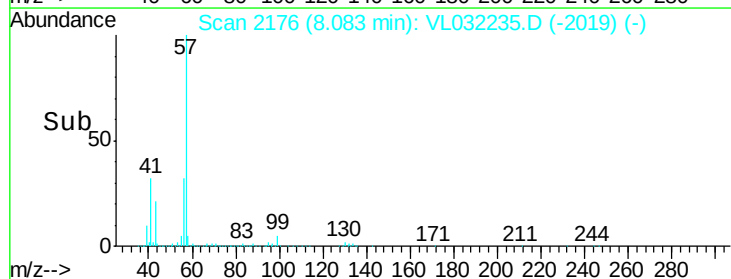
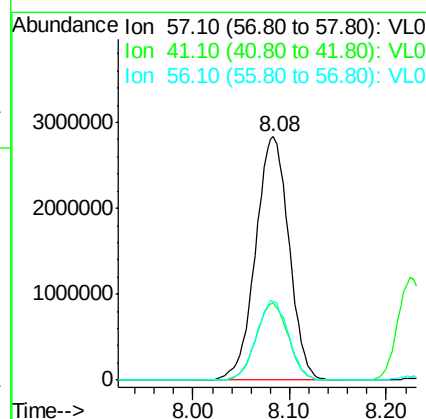
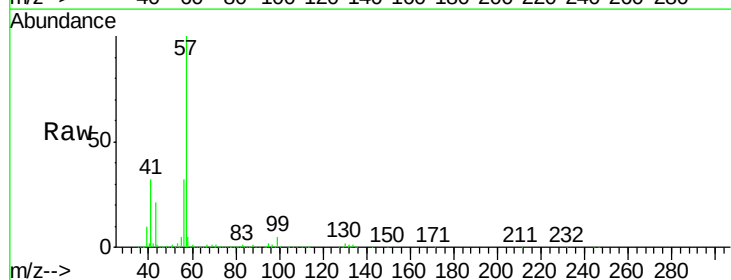
Manual Integrations
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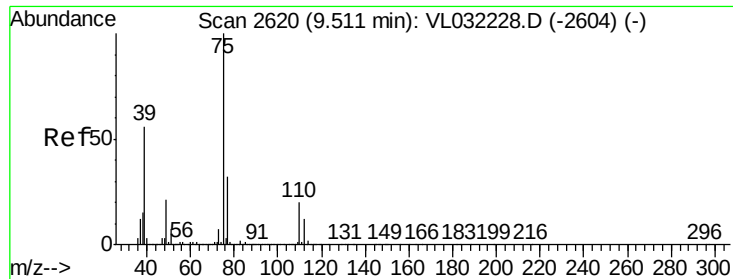
MMDadoda
7/13/2018 5:22:16 PM



#44
2,2,4-Trimethylpentane
Concen: 9.31 ppbv
RT: 8.08 min Scan# 2176
Delta R.T. 0.00 min
Lab File: VL032235.D
Acq: 13 Jul 2018 00:11

Tgt Ion: 57 Resp: 6775390
Ion Ratio Lower Upper
57 100
41 30.6 24.7 37.1
56 31.4 25.4 38.0





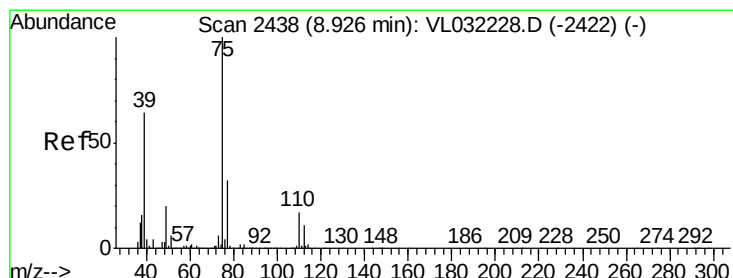
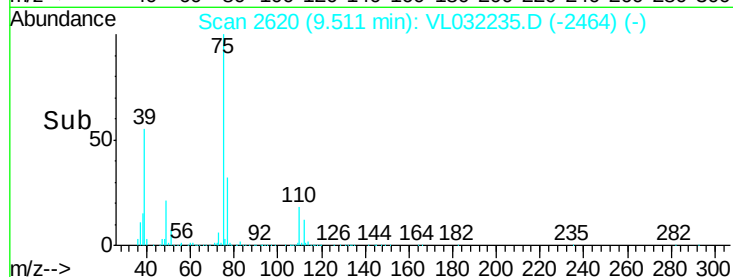
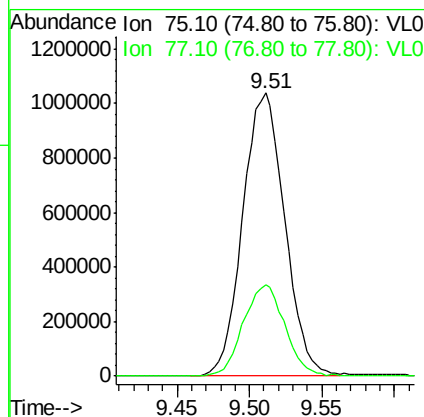
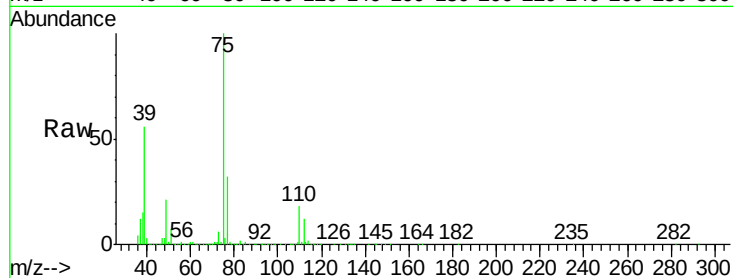
#45
t-1,3-Dichloropropene
Concen: 10.75 ppbv
RT: 9.51 min Scan# 2620
Delta R.T. 0.00 min
Lab File: VL032235.D
Acq: 13 Jul 2018 00:11

Instrument :
MSVOA_L
ClientSampleId :
ICVVL071218

Tot Ion: 75 Resp: 2093313
Ion Ratio Lower Upper
75 100
77 32.1 25.5 38.3

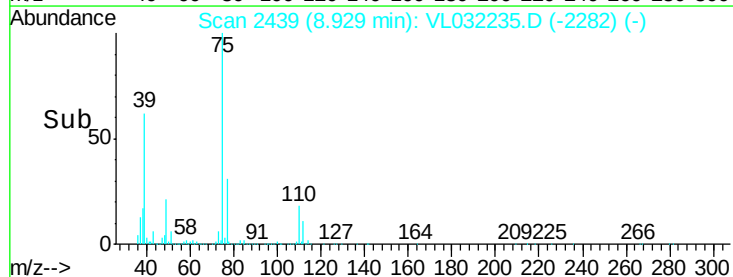
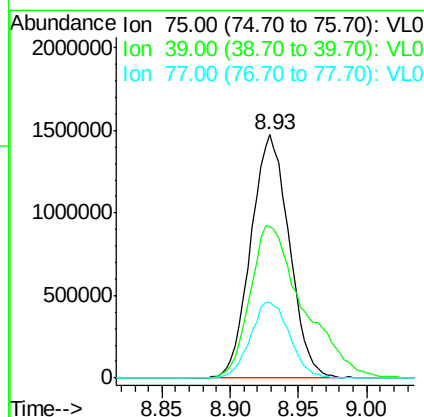
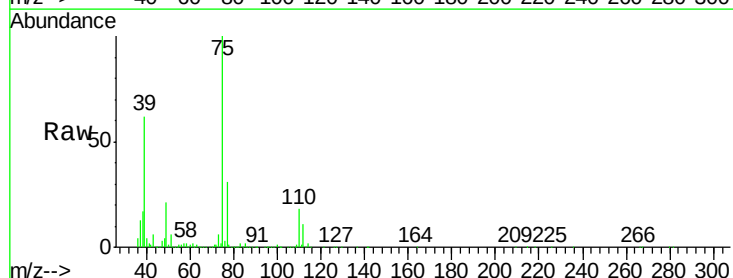
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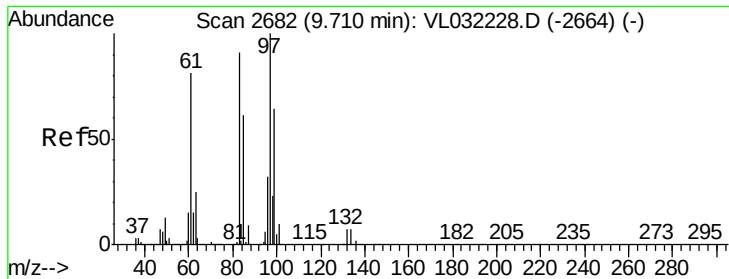
MMDadoda
7/13/2018 5:22:16 PM



#46
cis-1,3-Dichloropropene
Concen: 10.85 ppbv
RT: 8.93 min Scan# 2439
Delta R.T. 0.00 min
Lab File: VL032235.D
Acq: 13 Jul 2018 00:11

Tgt Ion: 75 Resp: 2880274
Ion Ratio Lower Upper
75 100
39 62.1 50.9 76.3
77 31.0 25.3 37.9





#47

1,1,2-Trichloroethane

Concen: 9.24 ppbv

RT: 9.71 min Scan# 2682

Delta R.T. 0.00 min

Lab File: VL032235.D

Acq: 13 Jul 2018 00:11

Instrument :

MSVOA_L

ClientSampleId :

ICVVL071218

Tot Ion: 97 Resp: 1734182

Ion Ratio Lower Upper

97 100

83 95.8 72.9 109.3

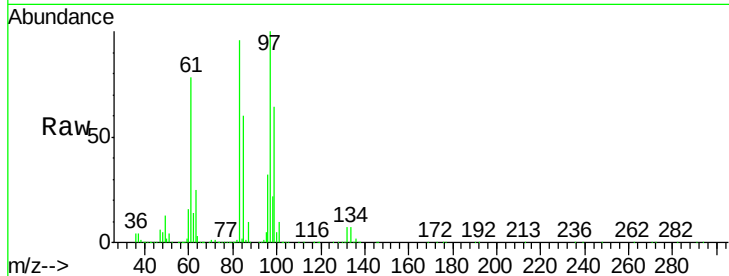
85 59.4 49.3 73.9

99 64.0 51.3 76.9

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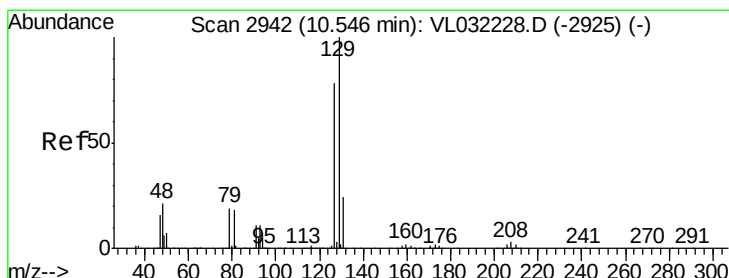
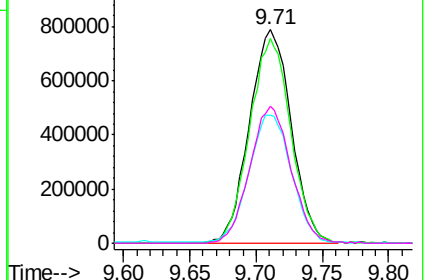
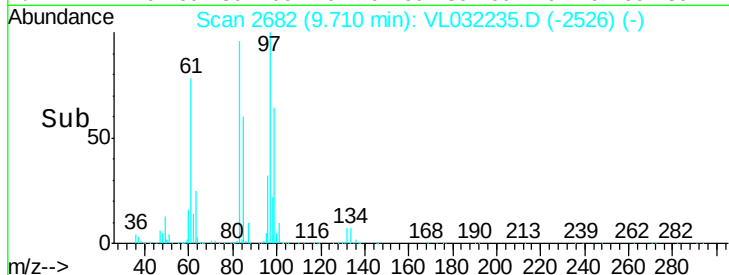


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 9.92 ppbv

RT: 10.55 min Scan# 2943

Delta R.T. 0.00 min

Lab File: VL032235.D

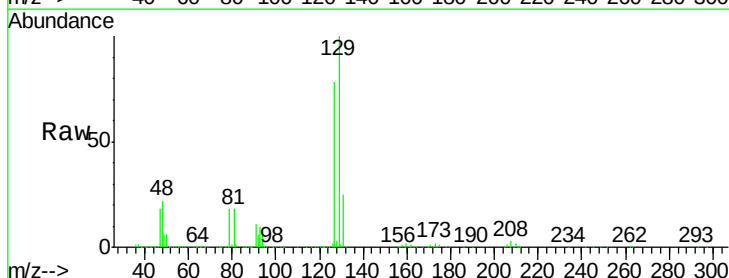
Acq: 13 Jul 2018 00:11

Tgt Ion:129 Resp: 2770992

Ion Ratio Lower Upper

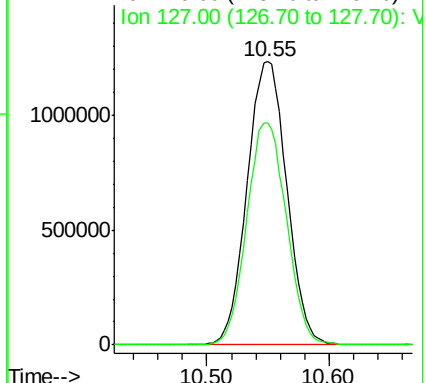
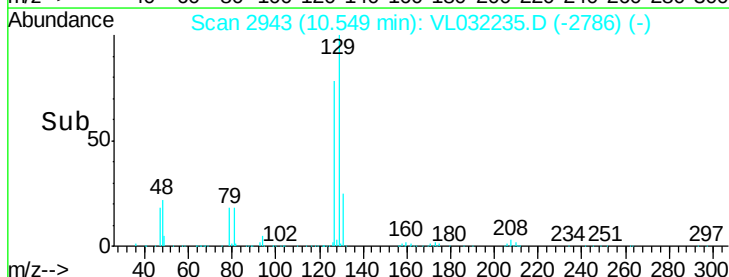
129 100

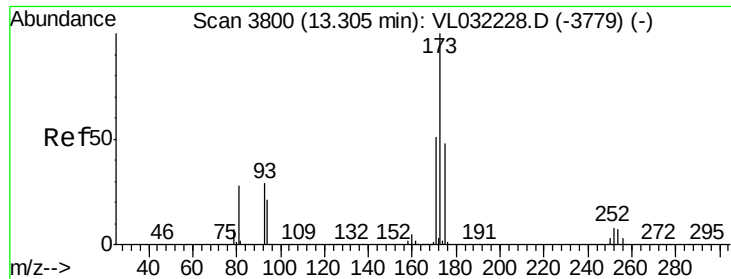
127 78.5 39.3 117.9



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 9.80 ppbv

RT: 13.31 min Scan# 3800

Delta R.T. 0.00 min

Lab File: VL032235.D

Acq: 13 Jul 2018 00:11

Instrument :

MSVOA_L

ClientSampleId :

ICVVL071218

Tot Ion:173 Resp: 2195073

Ion Ratio Lower Upper

173 100

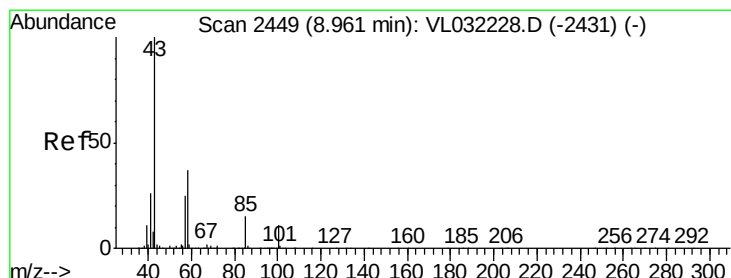
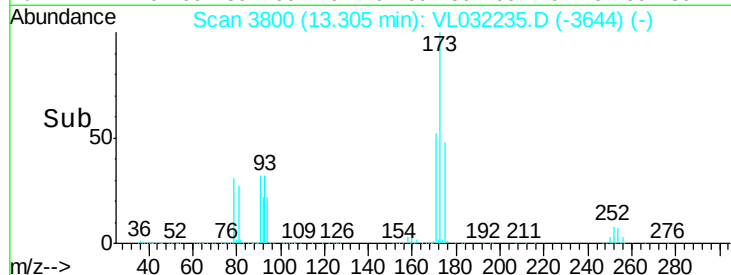
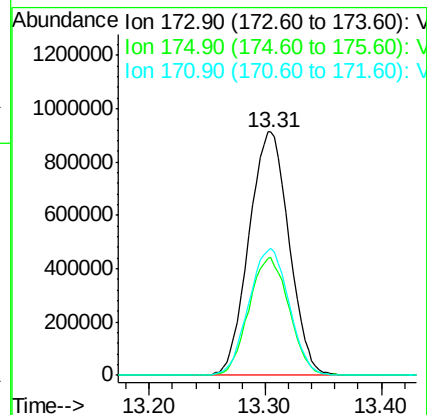
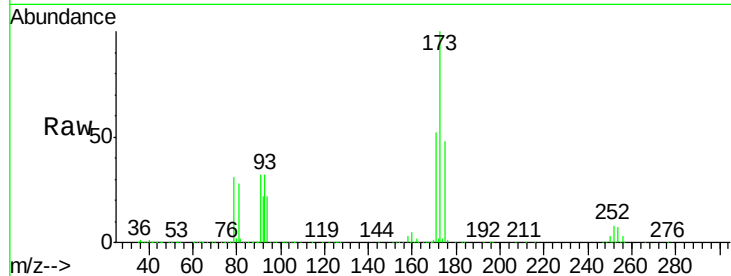
175 48.6 39.4 59.2

171 52.6 41.8 62.6

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#50

4-Methyl-2-Pentanone

Concen: 9.65 ppbv

RT: 8.96 min Scan# 2449

Delta R.T. 0.00 min

Lab File: VL032235.D

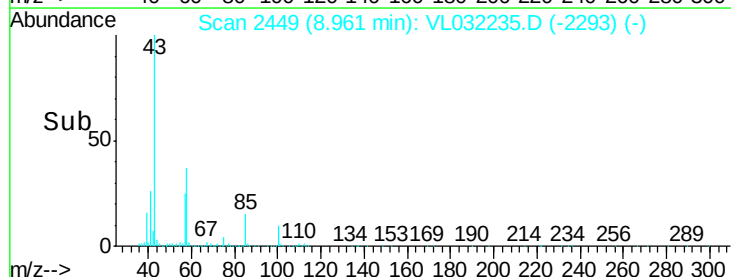
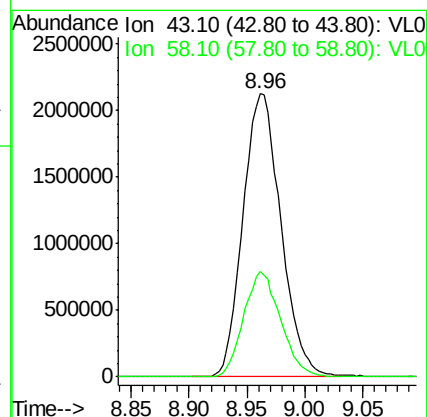
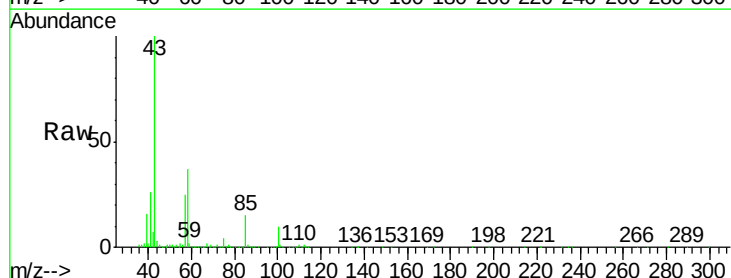
Acq: 13 Jul 2018 00:11

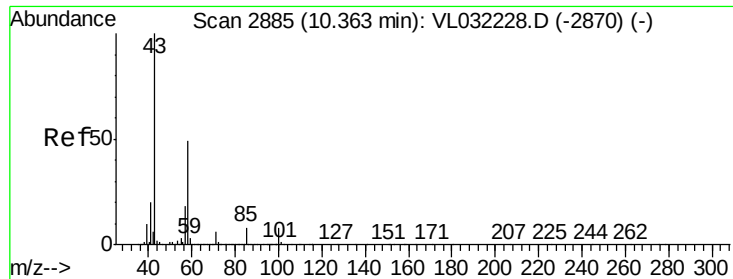
Tgt Ion: 43 Resp: 4839032

Ion Ratio Lower Upper

43 100

58 36.3 29.5 44.3





#51

2-Hexanone

Concen: 9.34 ppbv

RT: 10.37 min Scan# 2886

Delta R.T. 0.00 min

Lab File: VL032235.D

Acq: 13 Jul 2018 00:11

Instrument :

MSVOA_L

ClientSampleId :

ICVVL071218

Tot Ion: 43 Resp: 3913860

Ion Ratio Lower Upper

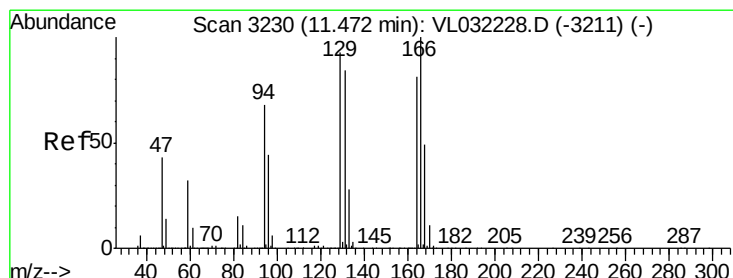
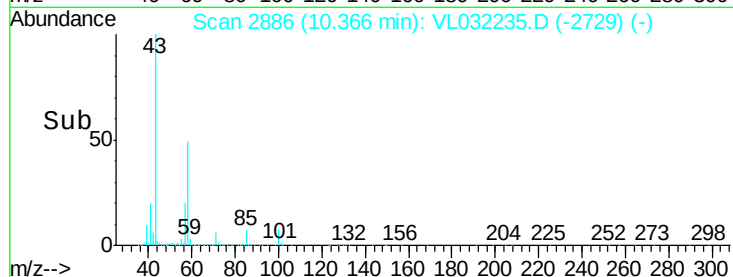
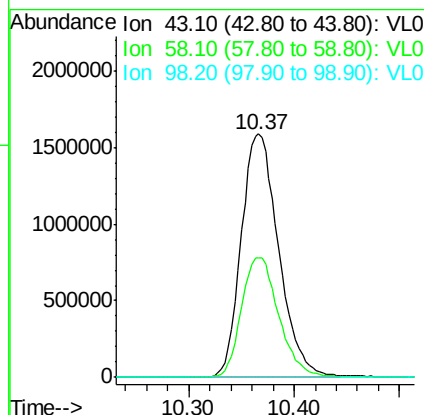
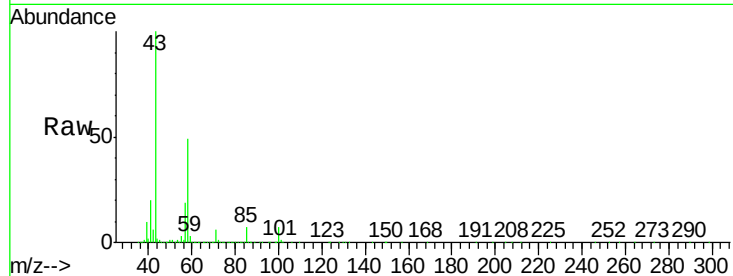
43 100

58 49.4 39.9 59.9

98 0.1 0.2 0.4#

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#52

Tetrachloroethene

Concen: 8.73 ppbv

RT: 11.47 min Scan# 3229

Delta R.T. -0.00 min

Lab File: VL032235.D

Acq: 13 Jul 2018 00:11

Tgt Ion: 164 Resp: 1364165

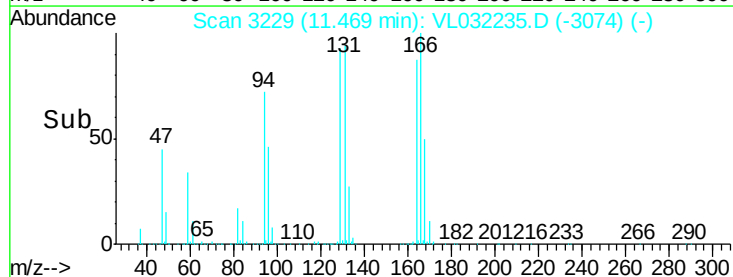
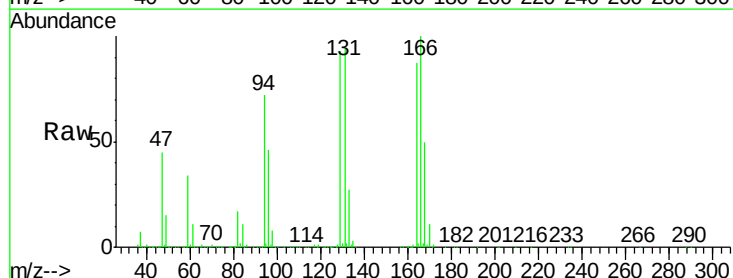
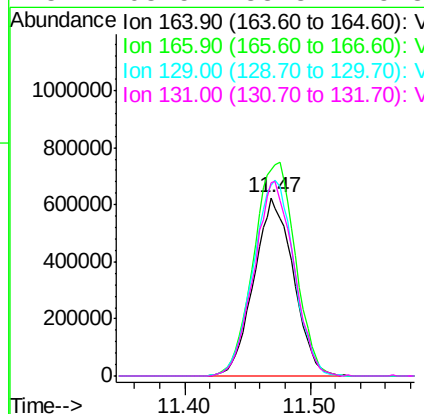
Ion Ratio Lower Upper

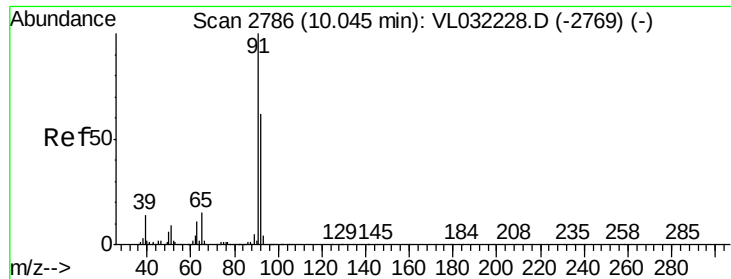
164 100

166 115.5 99.3 148.9

129 107.3 92.0 138.0

131 108.5 83.8 125.8





#53

Toluene

Concen: 10.04 ppbv

RT: 10.04 min Scan# 2785

Delta R.T. -0.00 min

Lab File: VL032235.D

Acq: 13 Jul 2018 00:11

Instrument :

MSVOA_L

ClientSampleId :

ICVVL071218

Tot Ion: 91 Resp: 5019490

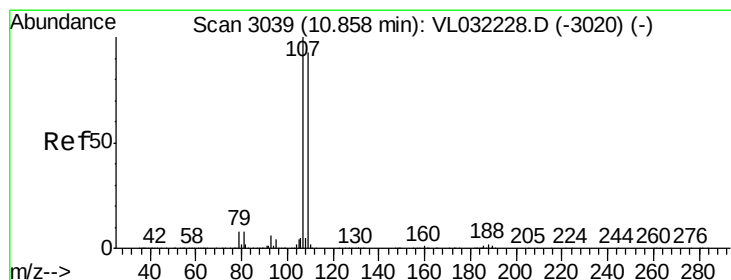
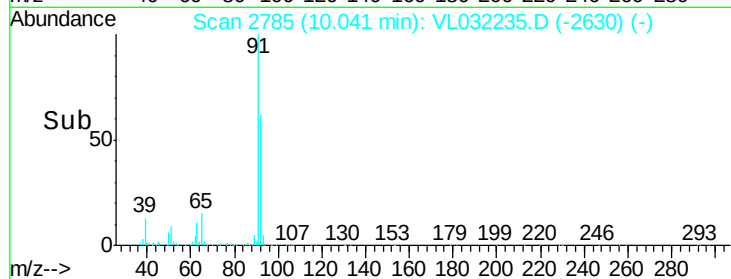
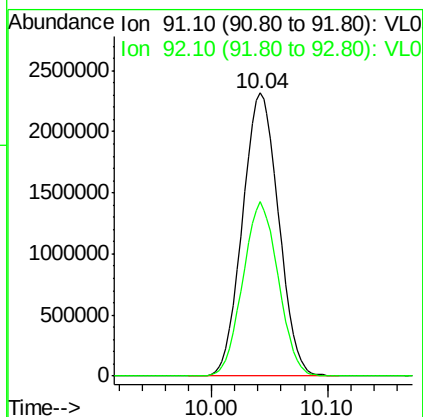
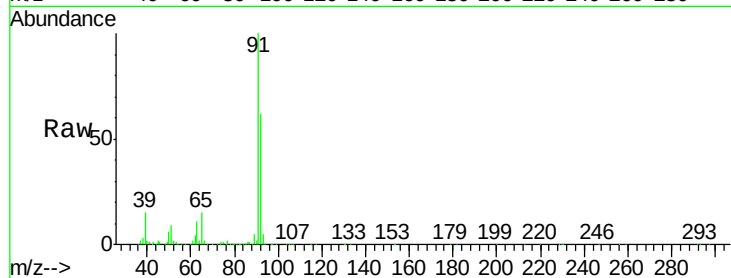
Ion Ratio Lower Upper

91 100

92 60.5 49.0 73.4

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#54

1,2-Dibromoethane

Concen: 9.78 ppbv

RT: 10.86 min Scan# 3039

Delta R.T. 0.00 min

Lab File: VL032235.D

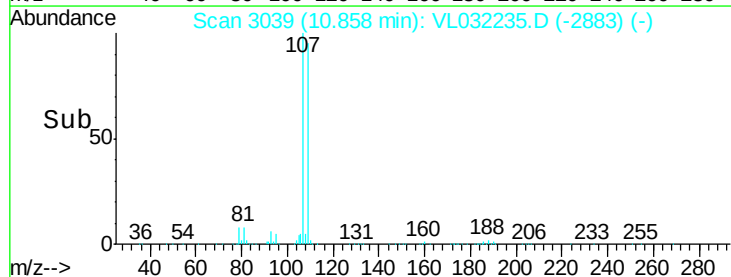
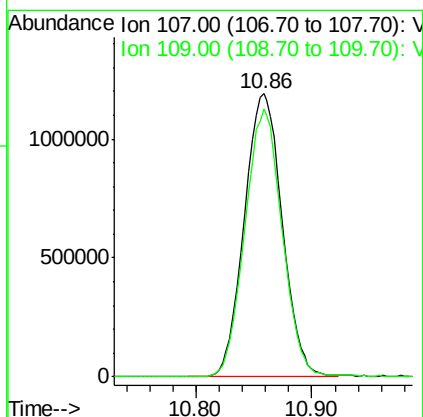
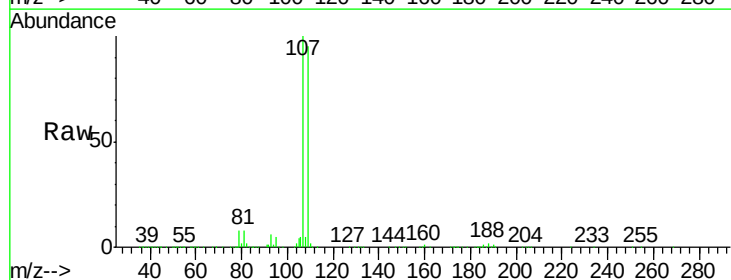
Acq: 13 Jul 2018 00:11

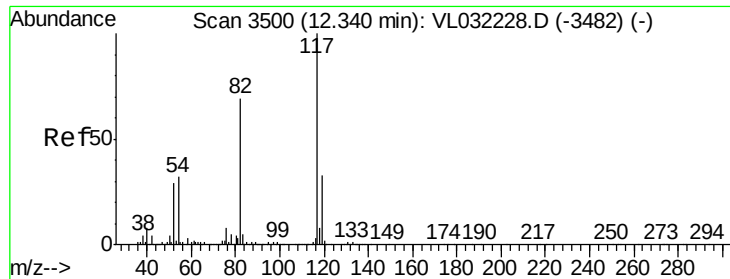
Tgt Ion: 107 Resp: 2710874

Ion Ratio Lower Upper

107 100

109 94.5 74.3 111.5





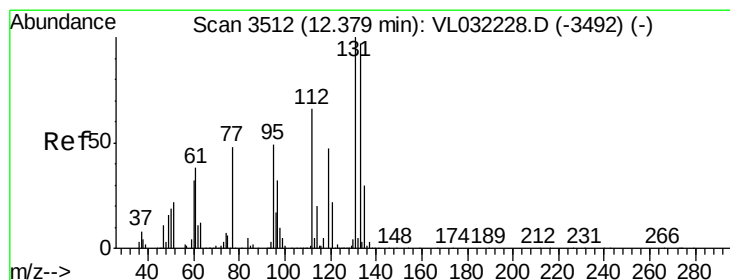
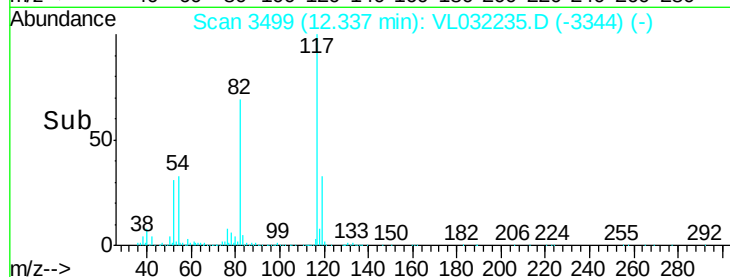
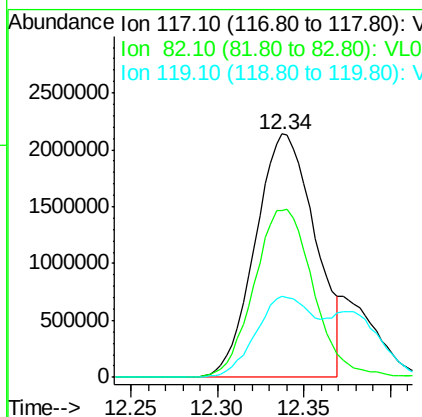
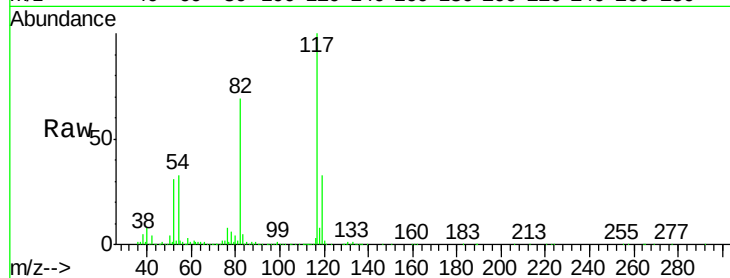
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.34 min Scan# 3499
Delta R.T. -0.00 min
Lab File: VL032235.D
Acq: 13 Jul 2018 00:11

Instrument :
MSVOA_L
ClientSampleId :
ICVVL071218

Tot Ion:117 Resp: 5171836
Ion Ratio Lower Upper
117 100
82 68.4 53.2 79.8
119 55.6 43.9 65.9

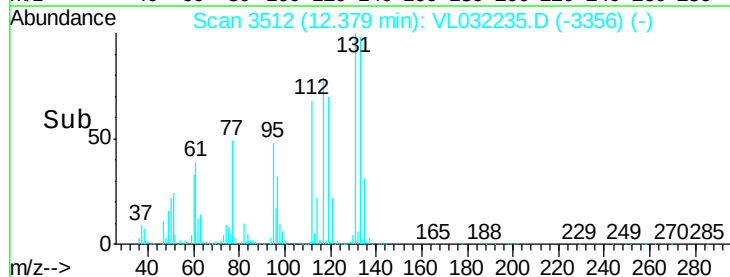
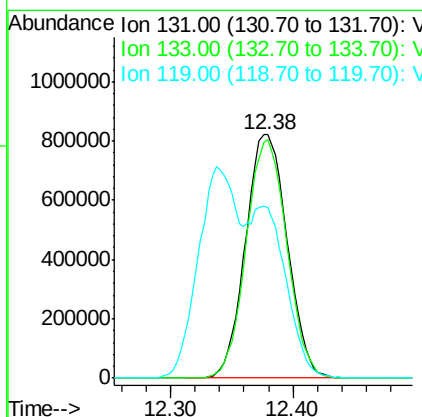
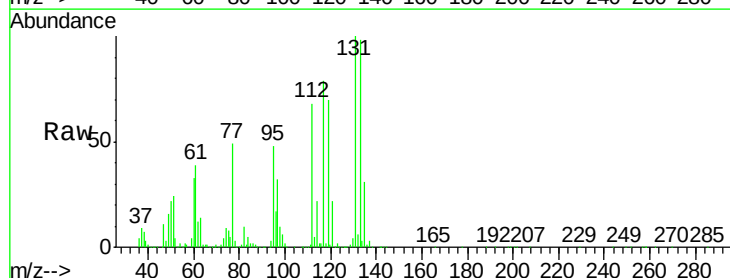
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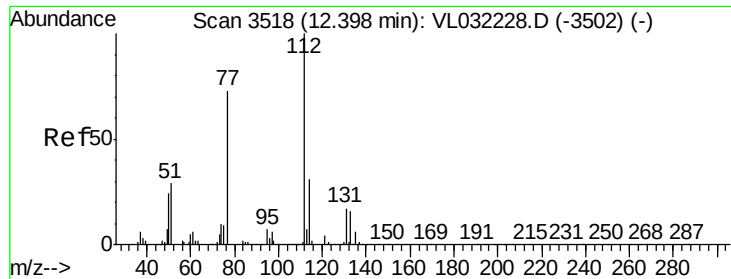
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.67 ppbv
RT: 12.38 min Scan# 3512
Delta R.T. 0.00 min
Lab File: VL032235.D
Acq: 13 Jul 2018 00:11

Tgt Ion:131 Resp: 1948678
Ion Ratio Lower Upper
131 100
133 95.2 75.2 112.8
119 147.5 113.9 170.9





#57

Chlorobenzene

Concen: 8.35 ppbv

RT: 12.40 min Scan# 3519

Delta R.T. 0.00 min

Lab File: VL032235.D

Acq: 13 Jul 2018 00:11

Instrument :

MSVOA_L

ClientSampleId :

ICVVL071218

Tot Ion: 112 Resp: 3648411

Ion Ratio Lower Upper

112 100

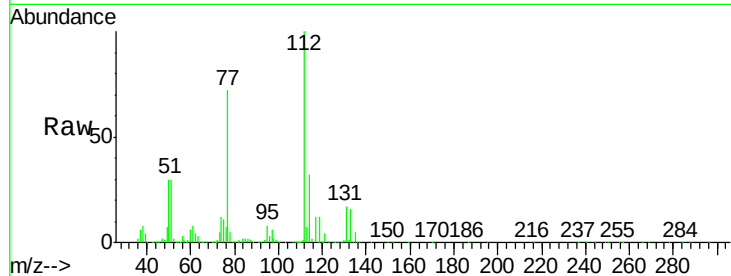
77 72.1 58.8 88.2

114 31.8 27.9 34.1

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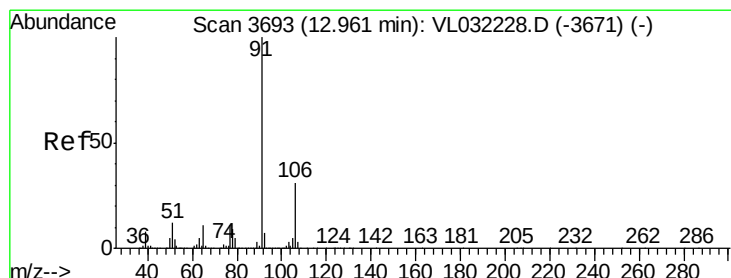
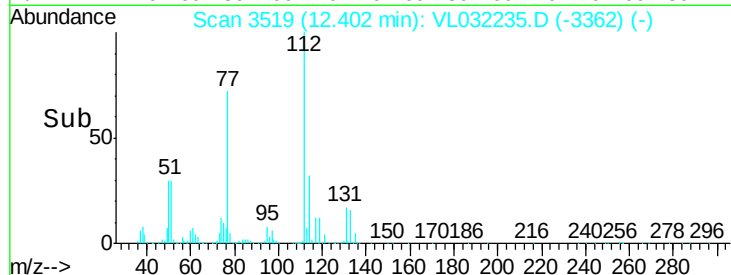
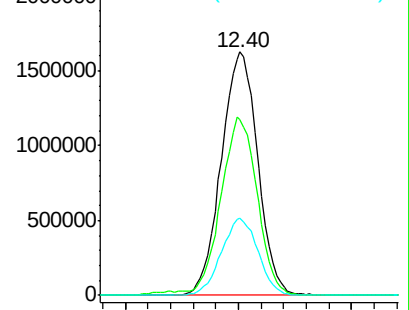
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.32 ppbv

RT: 12.96 min Scan# 3693

Delta R.T. 0.00 min

Lab File: VL032235.D

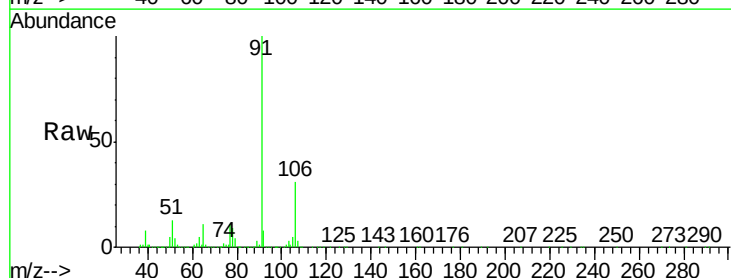
Acq: 13 Jul 2018 00:11

Tgt Ion: 91 Resp: 7015263

Ion Ratio Lower Upper

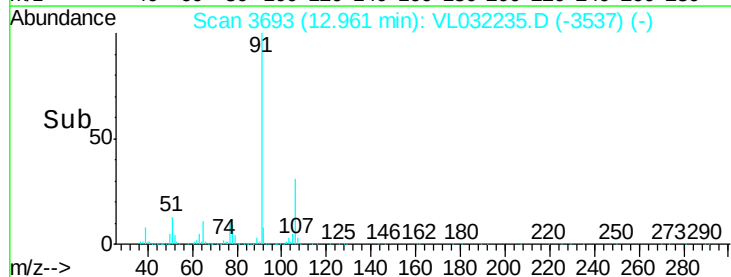
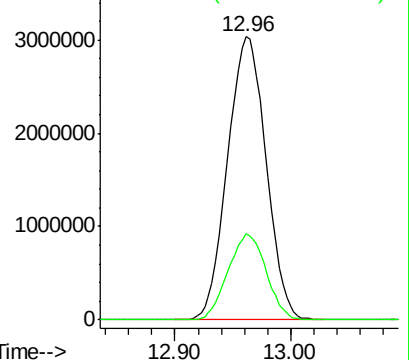
91 100

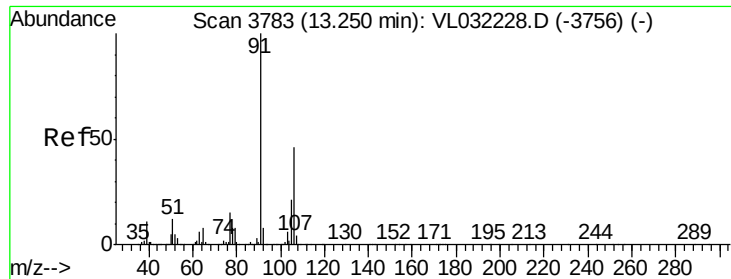
106 30.6 24.5 36.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





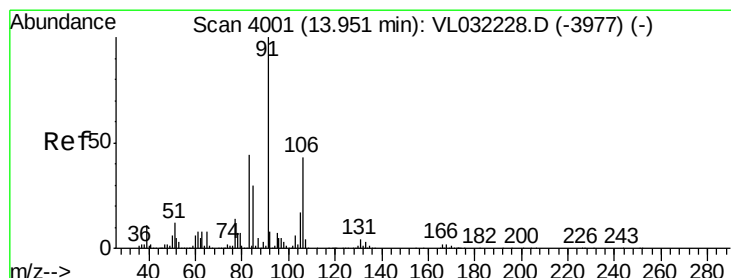
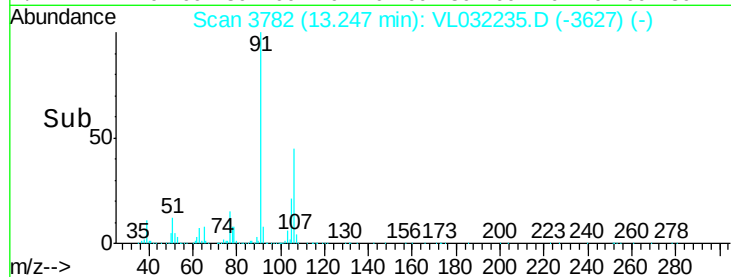
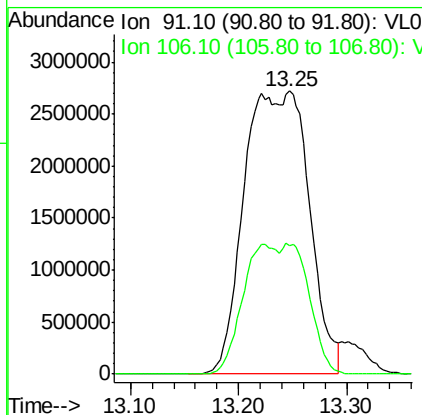
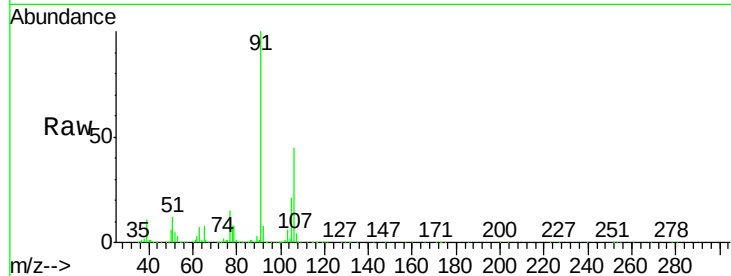
#59
m/p-Xylene
Concen: 18.27 ppbv m
RT: 13.25 min Scan# 3782
Delta R.T. -0.00 min
Lab File: VL032235.D
Acq: 13 Jul 2018 00:11

Instrument :
MSVOA_L
ClientSampleId :
ICVVL071218

Tot Ion: 91 Resp: 11322898
Ion Ratio Lower Upper
91 100
106 45.4 36.4 54.6

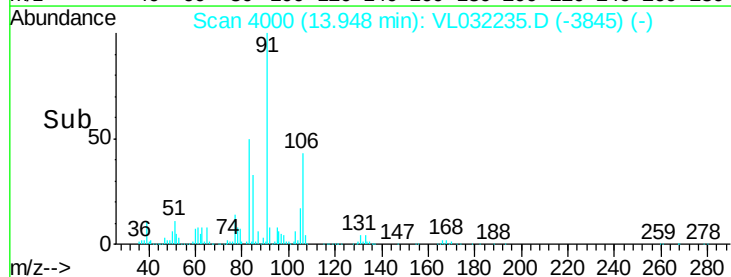
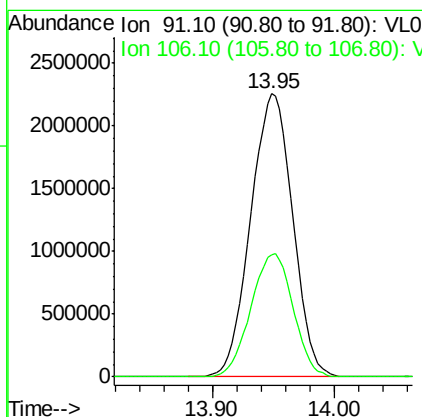
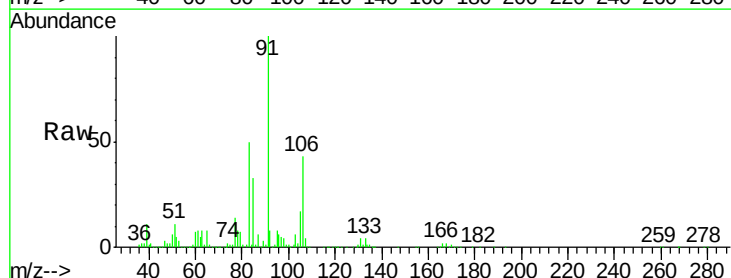
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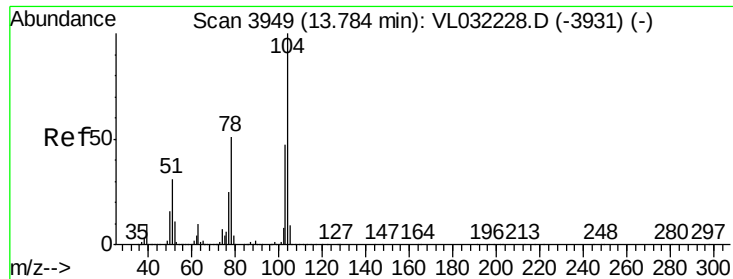
MMDadoda
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#60
o-Xylene
Concen: 8.81 ppbv
RT: 13.95 min Scan# 4000
Delta R.T. -0.00 min
Lab File: VL032235.D
Acq: 13 Jul 2018 00:11

Tgt Ion: 91 Resp: 5385227
Ion Ratio Lower Upper
91 100
106 43.6 21.9 65.5





#61

Stvrene

Concen: 9.73 ppbv

RT: 13.78 min Scan# 3949

Delta R.T. 0.00 min

Lab File: VL032235.D

Acq: 13 Jul 2018 00:11

Instrument :

MSVOA_L

ClientSampleId :

ICVVL071218

Tot Ion:104 Resp: 4459767

Ion Ratio Lower Upper

104 100

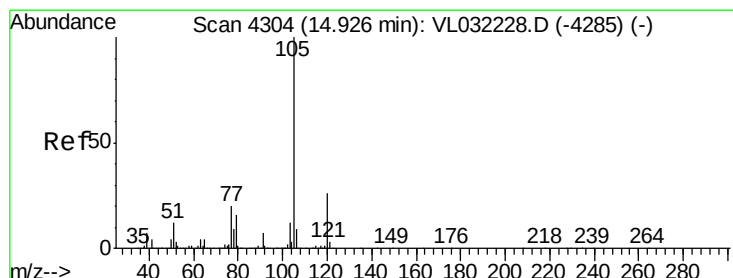
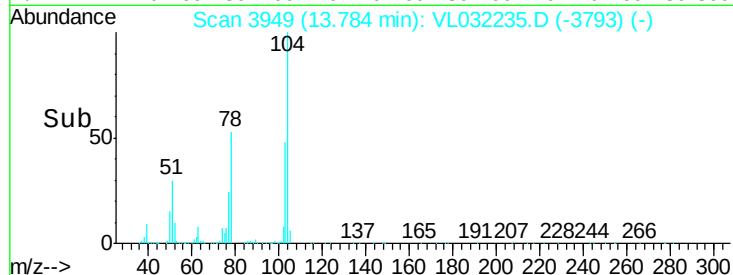
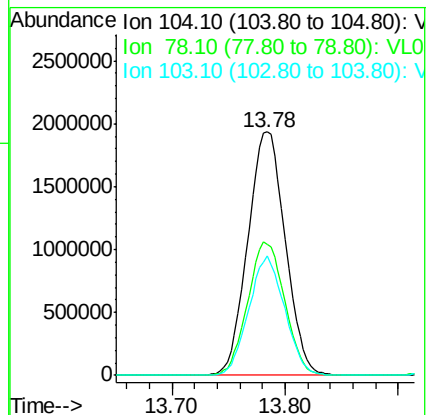
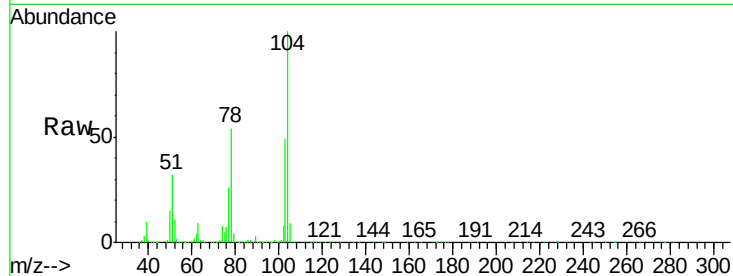
78 54.3 43.4 65.0

103 47.0 38.0 57.0

Manual Integrations
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#62

Isopropylbenzene

Concen: 8.79 ppbv

RT: 14.92 min Scan# 4303

Delta R.T. -0.00 min

Lab File: VL032235.D

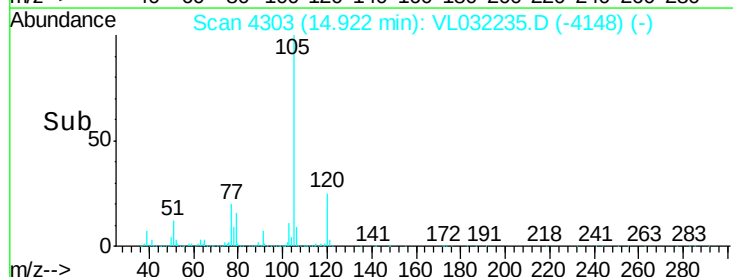
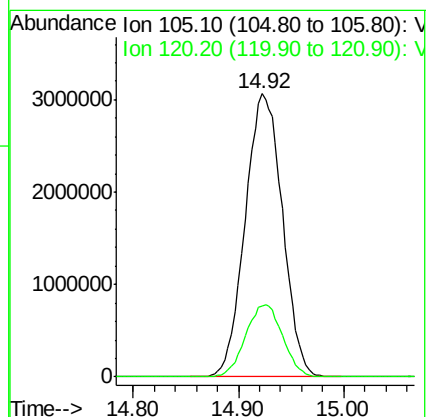
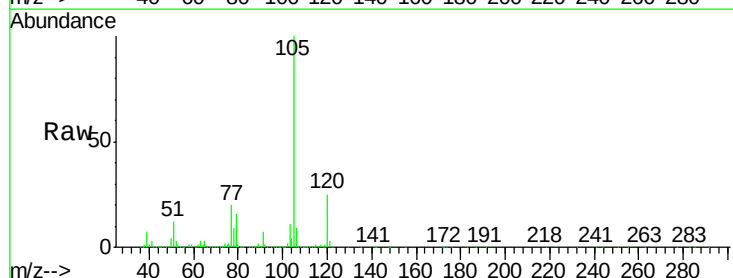
Acq: 13 Jul 2018 00:11

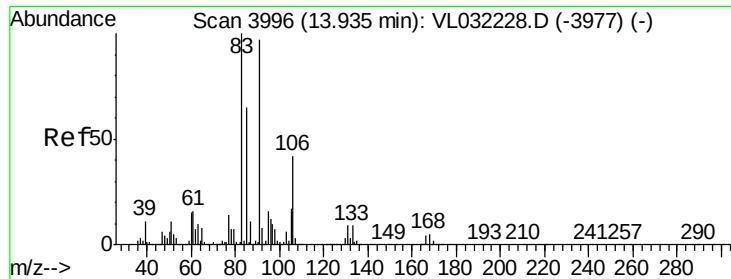
Tgt Ion:105 Resp: 7534506

Ion Ratio Lower Upper

105 100

120 25.3 20.2 30.2





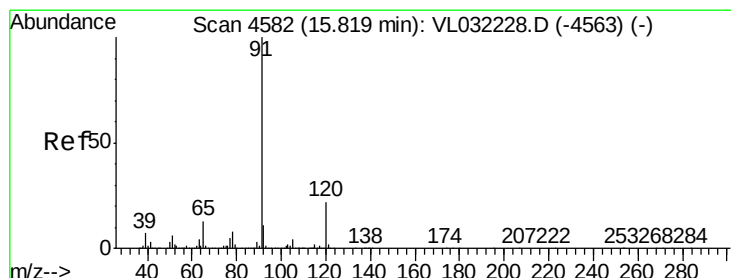
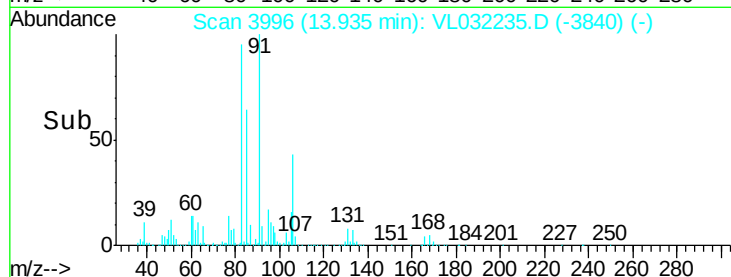
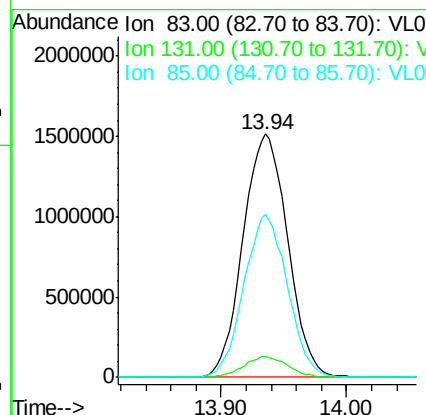
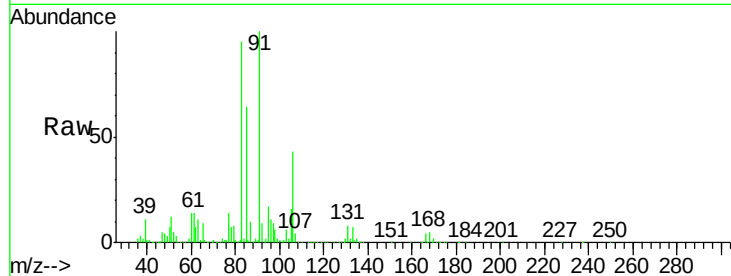
#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.51 ppbv
 RT: 13.94 min Scan# 3996
 Delta R.T. 0.00 min
 Lab File: VL032235.D
 Acq: 13 Jul 2018 00:11

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL071218

Tot Ion	83	Resp	3735405
Ion Ratio	100	Lower	Upper
83	100		
131	8.5	4.3	12.8
85	65.7	32.5	97.5

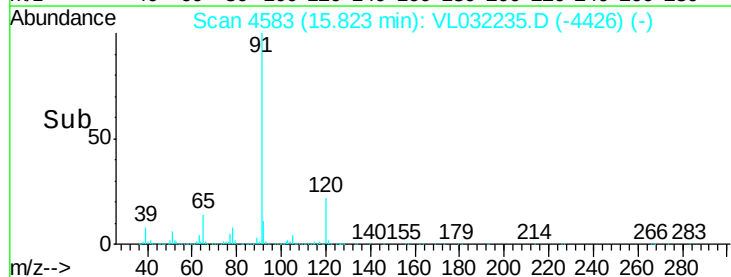
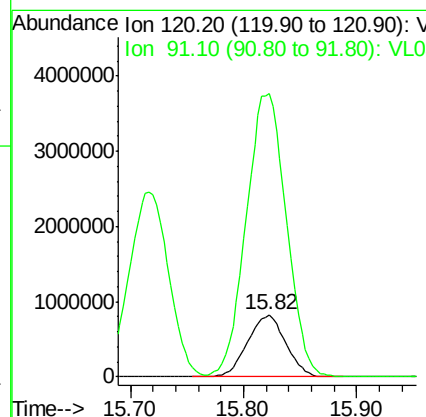
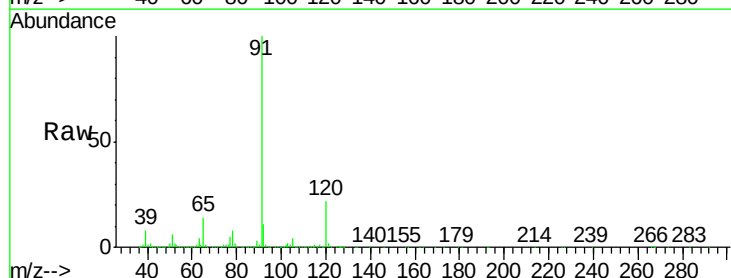
Manual Integrations
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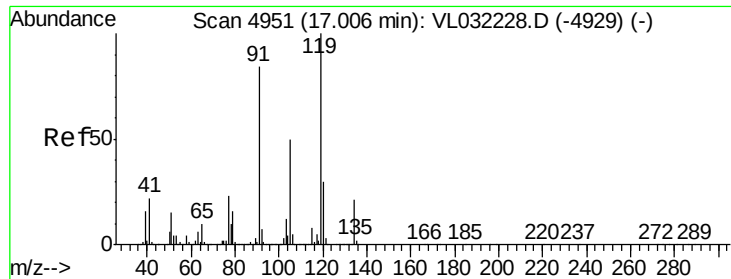
MMDadoda
 7/13/2018 5:22:16 PM



#64
 n-propylbenzene
 Concen: 8.87 ppbv
 RT: 15.82 min Scan# 4583
 Delta R.T. 0.00 min
 Lab File: VL032235.D
 Acq: 13 Jul 2018 00:11

Tgt Ion	120	Resp	1925202
Ion Ratio	100	Lower	Upper
120	100		
91	481.8	385.0	577.4





#65

tert-Butylbenzene

Concen: 8.39 ppbv

RT: 17.01 min Scan# 4951

Delta R.T. 0.00 min

Lab File: VL032235.D

Acq: 13 Jul 2018 00:11

Instrument :

MSVOA_L

ClientSampleId :

ICVVL071218

Tot Ion: 119 Resp: 6022211

Ion Ratio Lower Upper

119 100

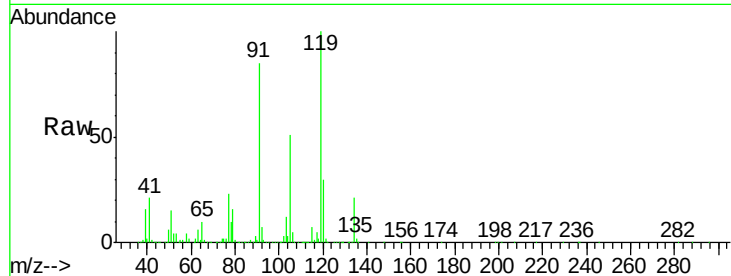
91 85.7 68.6 102.8

134 19.5 15.4 23.2

Manual Integrations
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MMDadoda

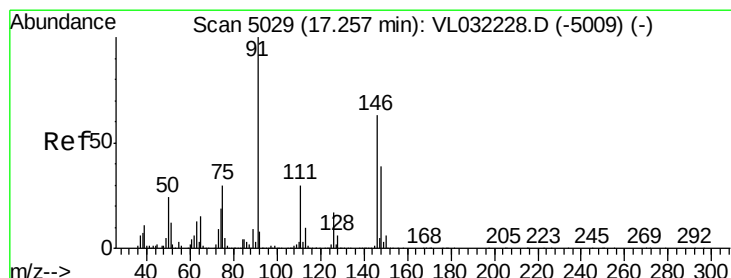
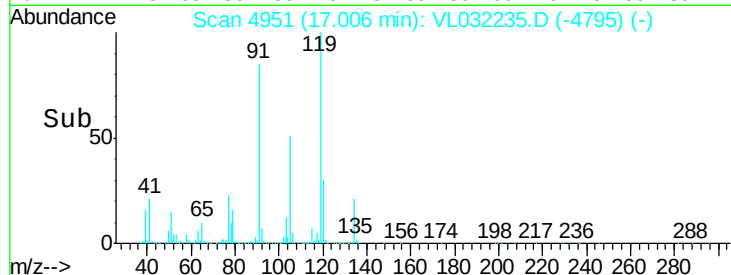
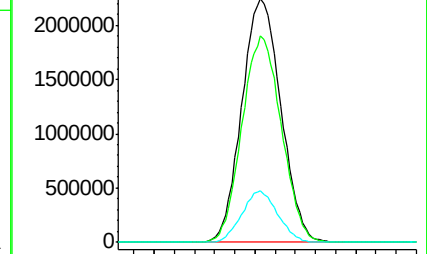
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 10.12 ppbv

RT: 17.25 min Scan# 5028

Delta R.T. -0.00 min

Lab File: VL032235.D

Acq: 13 Jul 2018 00:11

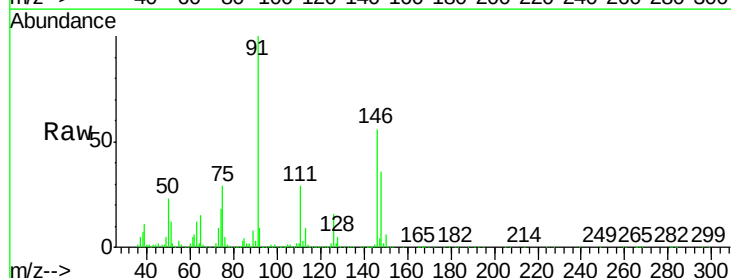
Tgt Ion: 91 Resp: 3679576

Ion Ratio Lower Upper

91 100

126 16.3 13.4 20.0

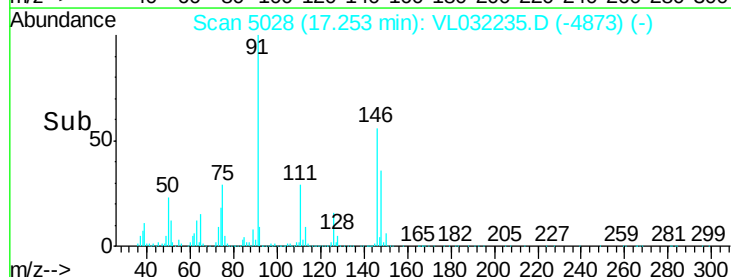
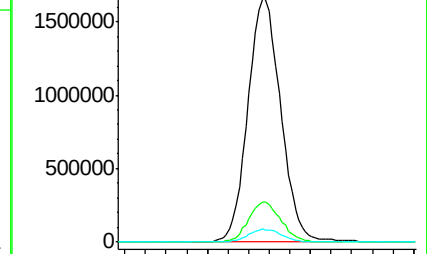
128 5.3 4.5 6.7

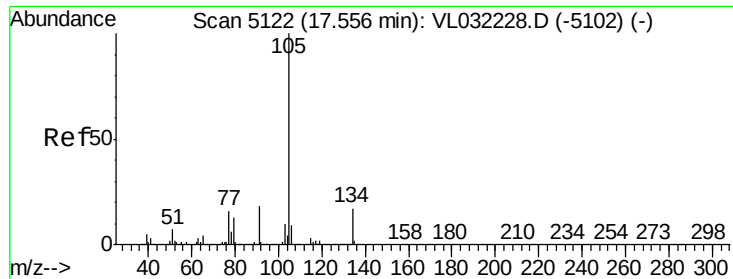


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





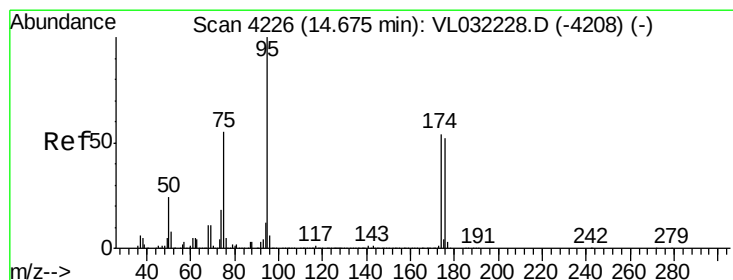
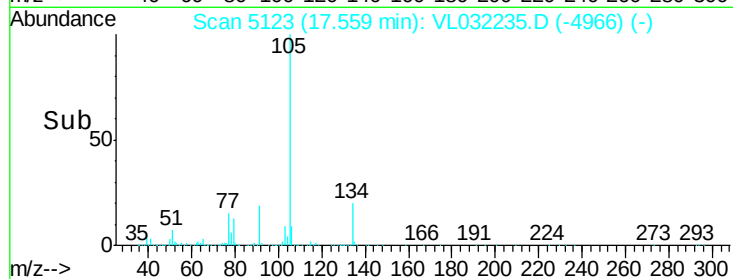
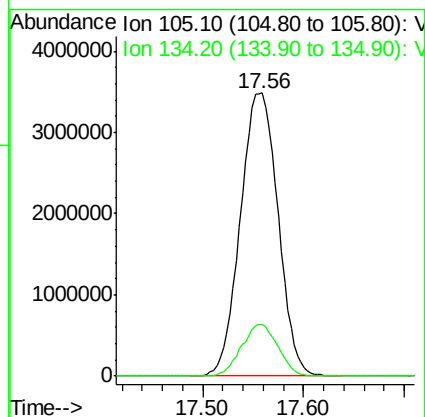
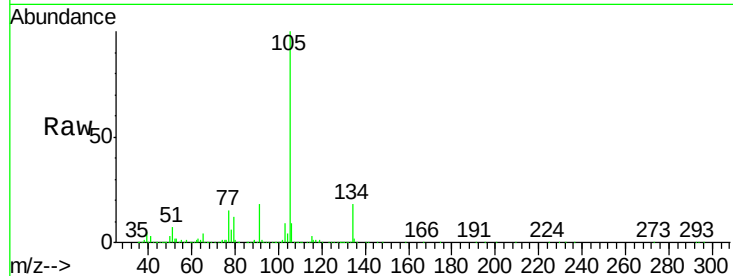
#67
 sec-Butylbenzene
 Concen: 8.61 ppbv
 RT: 17.56 min Scan# 5123
 Delta R.T. 0.00 min
 Lab File: VL032235.D
 Acq: 13 Jul 2018 00:11

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL071218

Tot Ion:105 Resp: 9032667
 Ion Ratio Lower Upper
 105 100
 134 17.7 14.2 21.2

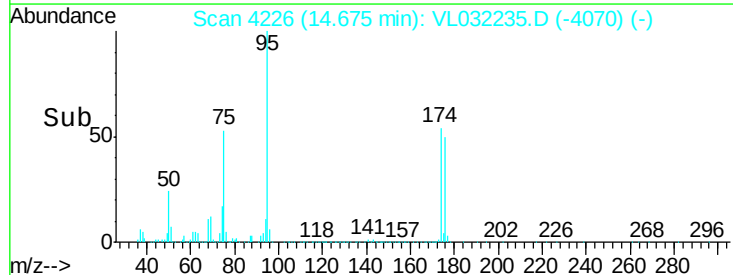
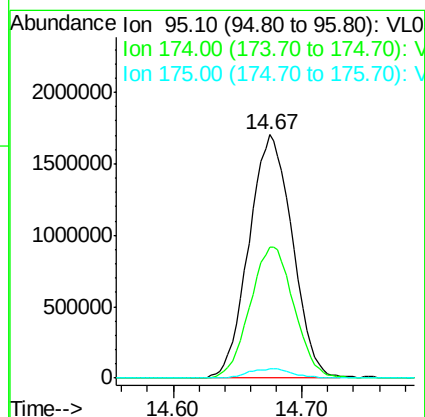
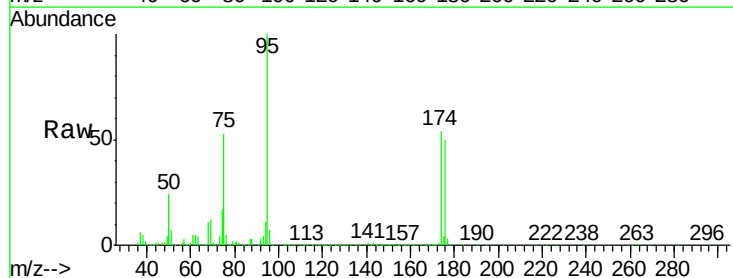
Manual Integrations
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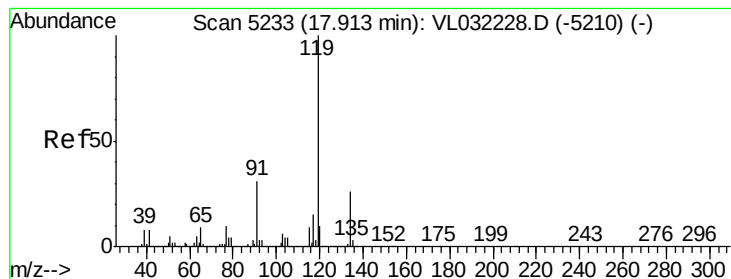
MMDadoda
 7/13/2018 5:22:16 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.97 ppbv
 RT: 14.67 min Scan# 4226
 Delta R.T. 0.00 min
 Lab File: VL032235.D
 Acq: 13 Jul 2018 00:11

Tgt Ion: 95 Resp: 3991893
 Ion Ratio Lower Upper
 95 100
 174 54.9 44.6 67.0
 175 4.0 3.3 4.9





#69

p-Isopropyltoluene

Concen: 8.71 ppbv

RT: 17.91 min Scan# 5233

Delta R.T. 0.00 min

Lab File: VL032235.D

Acq: 13 Jul 2018 00:11

Instrument :

MSVOA_L

ClientSampleId :

ICVVL071218

Tot Ion: 119 Resp: 7113573

Ion Ratio Lower Upper

119 100

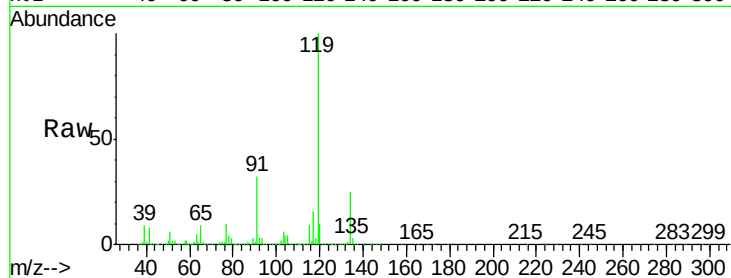
134 25.3 20.1 30.1

91 30.5 24.2 36.2

Manual Integrations
APPROVED

MMDadoda

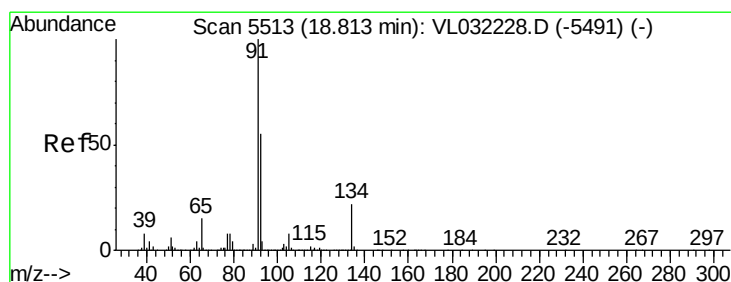
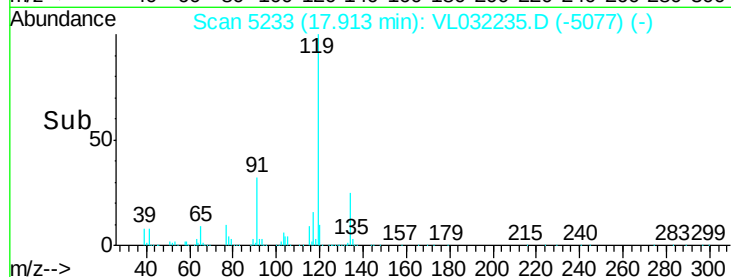
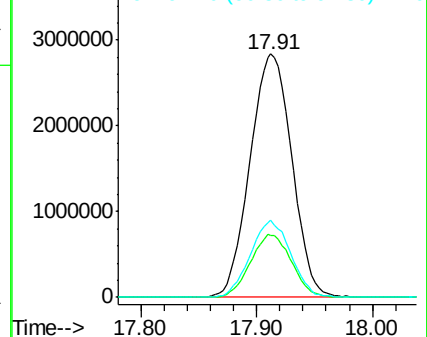
7/13/2018 5:22:16 PM



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 8.59 ppbv

RT: 18.81 min Scan# 5512

Delta R.T. -0.00 min

Lab File: VL032235.D

Acq: 13 Jul 2018 00:11

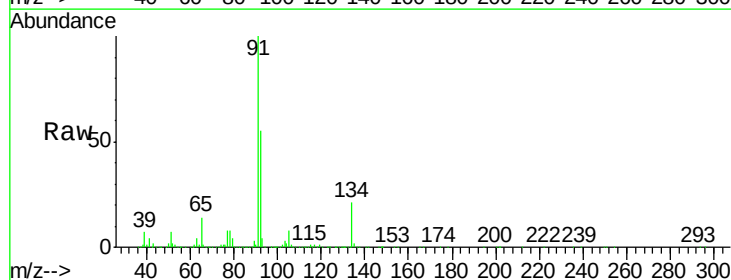
Tgt Ion: 91 Resp: 7754213

Ion Ratio Lower Upper

91 100

92 54.9 43.6 65.4

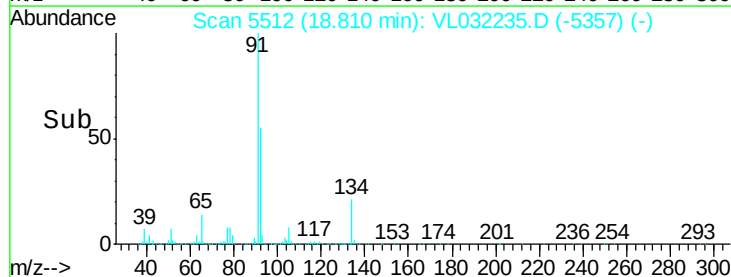
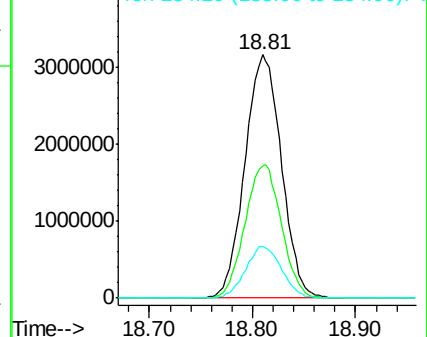
134 21.1 17.1 25.7

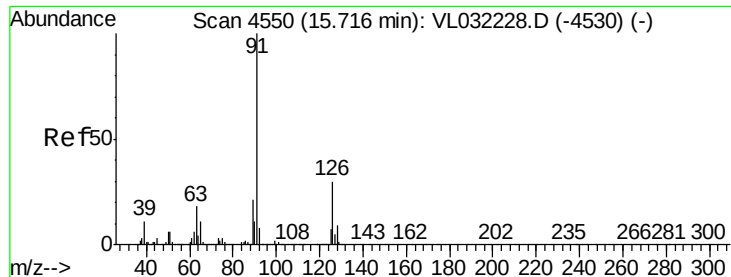


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





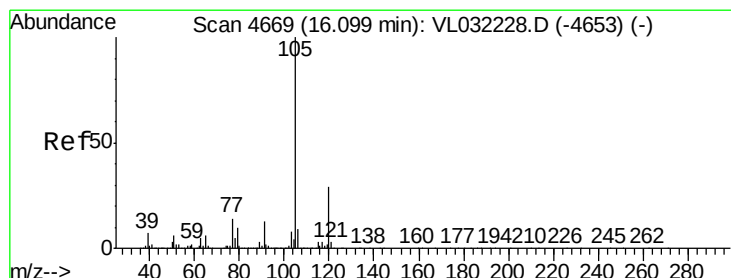
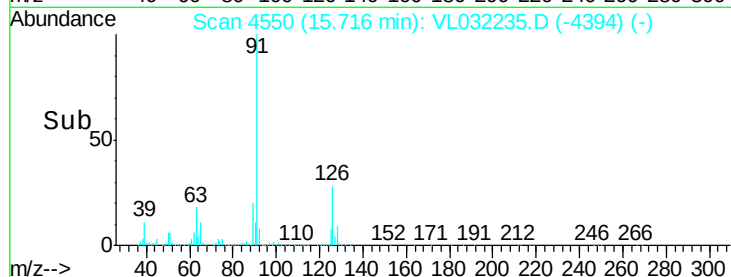
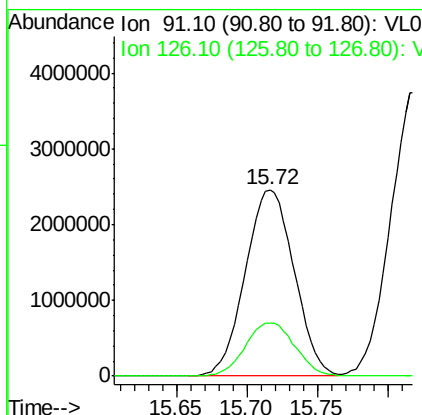
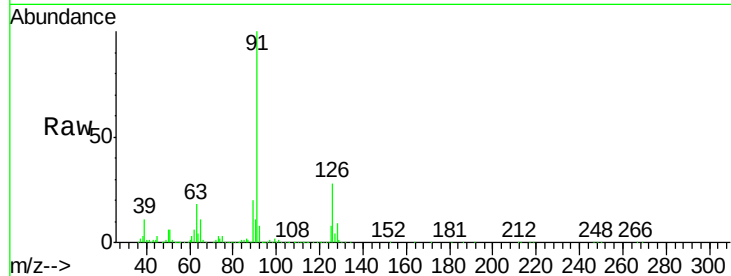
#71
 2-Chlorotoluene
 Concen: 8.81 ppbv
 RT: 15.72 min Scan# 4550
 Delta R.T. 0.00 min
 Lab File: VL032235.D
 Acq: 13 Jul 2018 00:11

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL071218

Tot Ion: 91 Resp: 5943335
 Ion Ratio Lower Upper
 91 100
 126 29.0 11.7 46.7

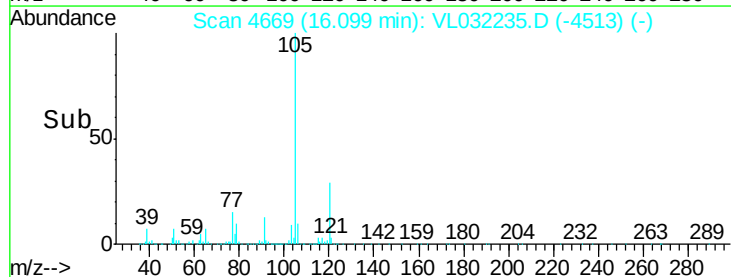
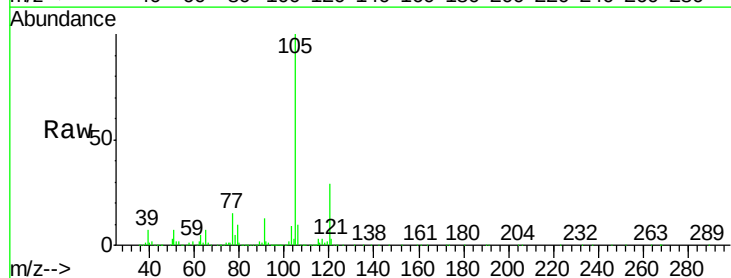
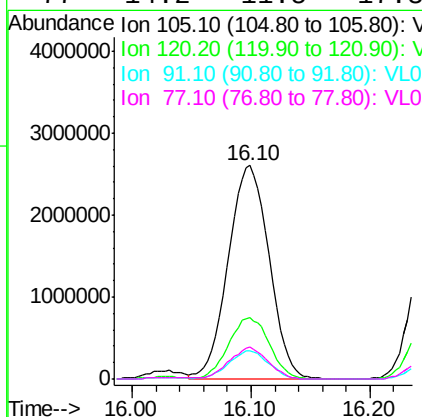
Manual Integrations
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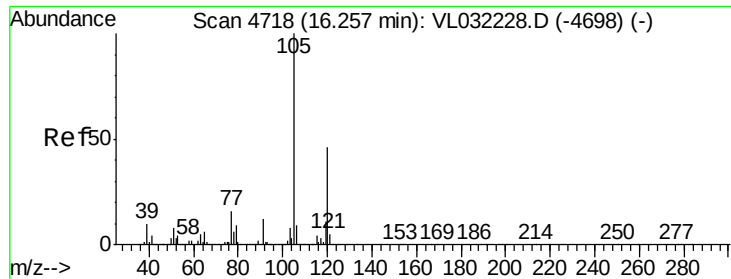
MMDadoda
 7/13/2018 5:22:16 PM



#72
 4-Ethyltoluene
 Concen: 9.03 ppbv
 RT: 16.10 min Scan# 4669
 Delta R.T. 0.00 min
 Lab File: VL032235.D
 Acq: 13 Jul 2018 00:11

Tgt Ion: 105 Resp: 6192248
 Ion Ratio Lower Upper
 105 100
 120 29.1 23.3 34.9
 91 12.8 10.3 15.5
 77 14.2 11.5 17.3





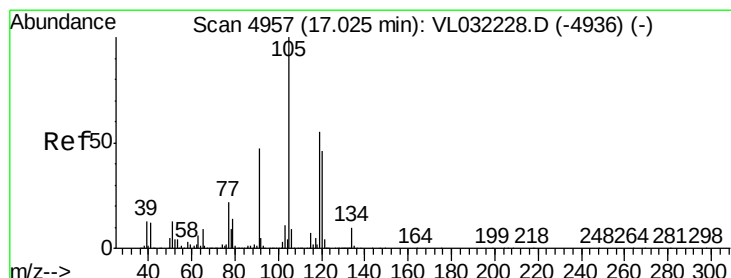
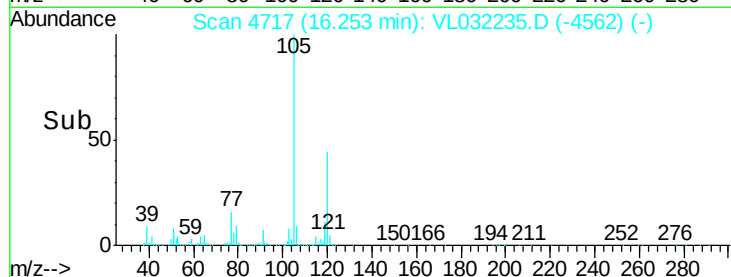
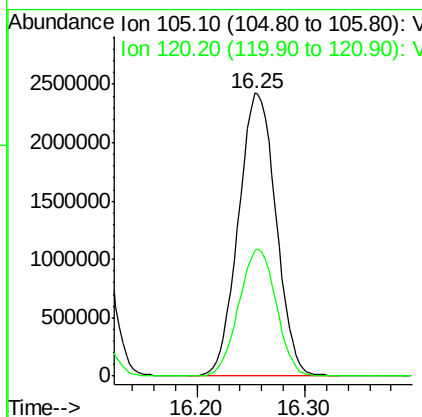
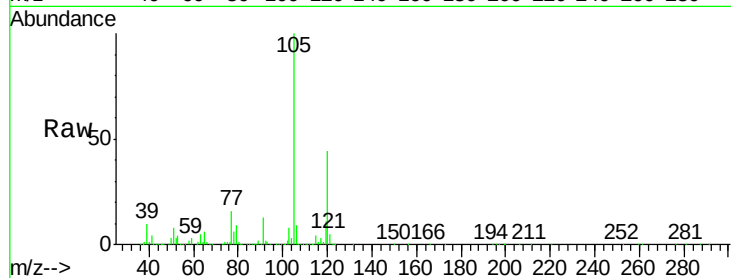
#73
 1,3,5-Trimethylbenzene
 Concen: 9.19 ppbv
 RT: 16.25 min Scan# 4717
 Delta R.T. -0.00 min
 Lab File: VL032235.D
 Acq: 13 Jul 2018 00:11

Instrument :
 MSVOA_L
 ClientSampled :
 ICVVL071218

Tot Ion:105 Resp: 5864196
 Ion Ratio Lower Upper
 105 100
 120 44.3 36.6 54.8

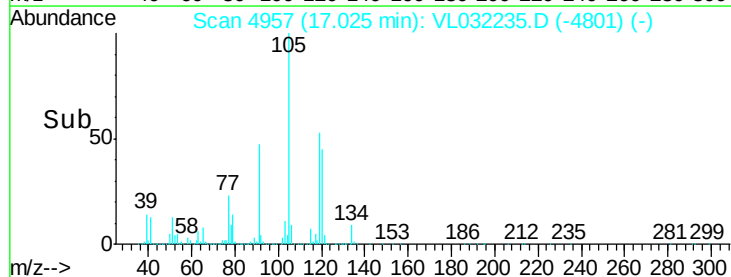
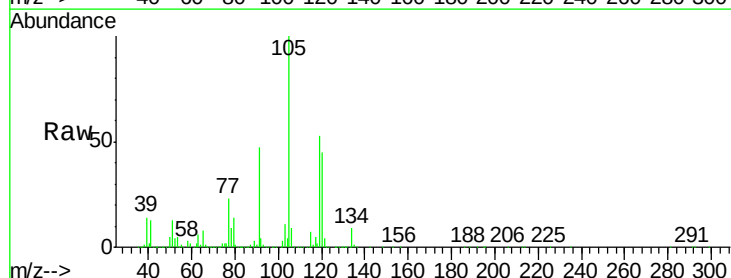
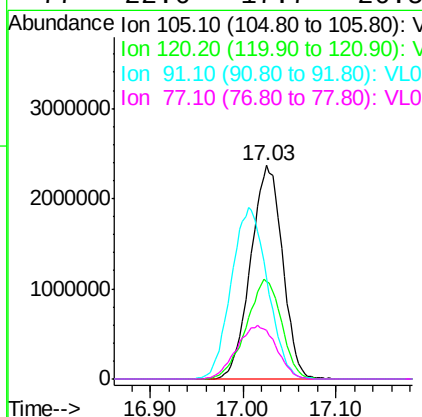
Manual Integrations
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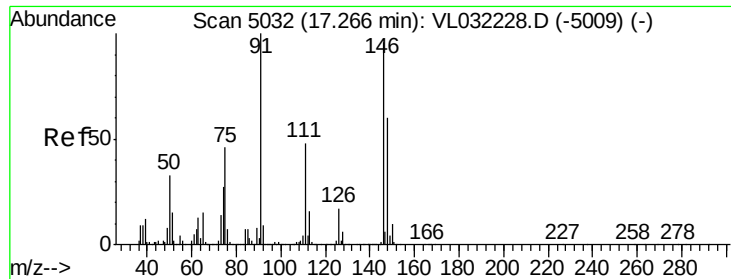
MMDadoda
 7/13/2018 5:22:16 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 8.66 ppbv
 RT: 17.03 min Scan# 4957
 Delta R.T. 0.00 min
 Lab File: VL032235.D
 Acq: 13 Jul 2018 00:11

Tgt Ion:105 Resp: 5648035
 Ion Ratio Lower Upper
 105 100
 120 45.4 37.0 55.4
 91 47.1 38.2 57.2
 77 22.6 17.7 26.5





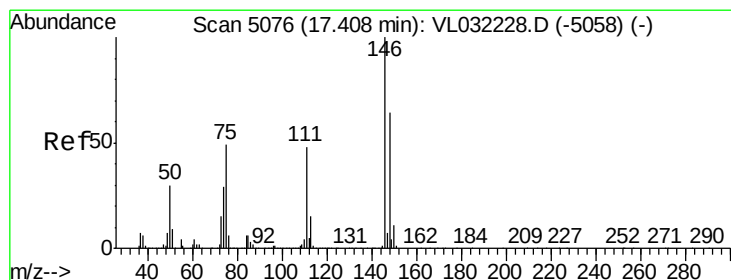
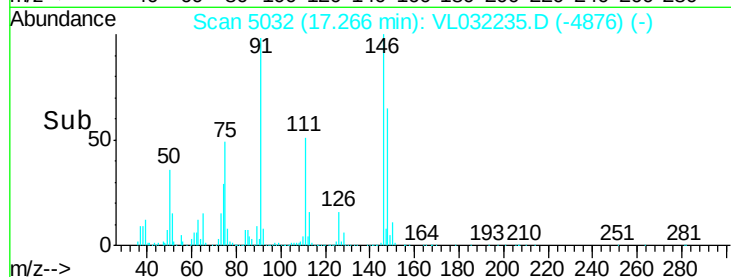
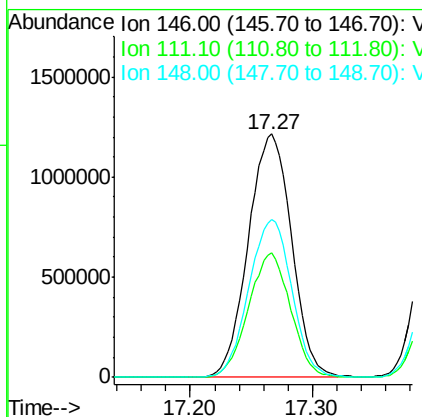
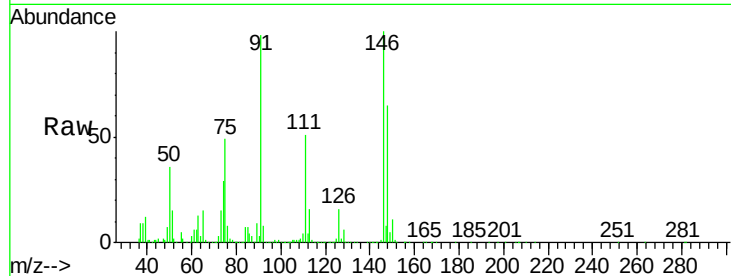
#75
 1,3-Dichlorobenzene
 Concen: 7.68 ppbv
 RT: 17.27 min Scan# 5032
 Delta R.T. 0.00 min
 Lab File: VL032235.D
 Acq: 13 Jul 2018 00:11

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL071218

Tot Ion:146 Resp: 2989219
 Ion Ratio Lower Upper
 146 100
 111 49.7 24.9 74.7
 148 64.3 31.9 95.5

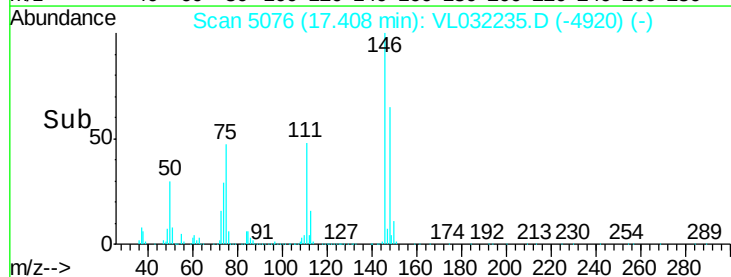
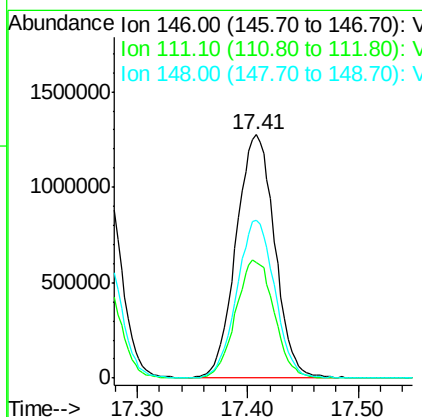
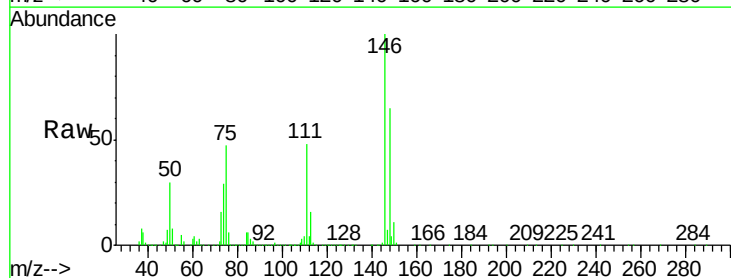
Manual Integrations
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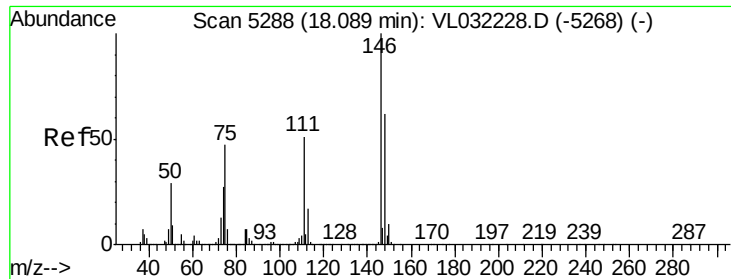
MMDadoda
 7/13/2018 5:22:16 PM



#76
 1,4-Dichlorobenzene
 Concen: 8.03 ppbv
 RT: 17.41 min Scan# 5076
 Delta R.T. 0.00 min
 Lab File: VL032235.D
 Acq: 13 Jul 2018 00:11

Tgt Ion:146 Resp: 3061293
 Ion Ratio Lower Upper
 146 100
 111 48.8 24.6 73.6
 148 64.2 32.3 96.9





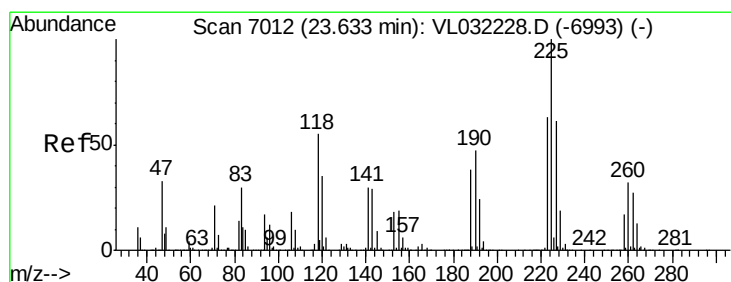
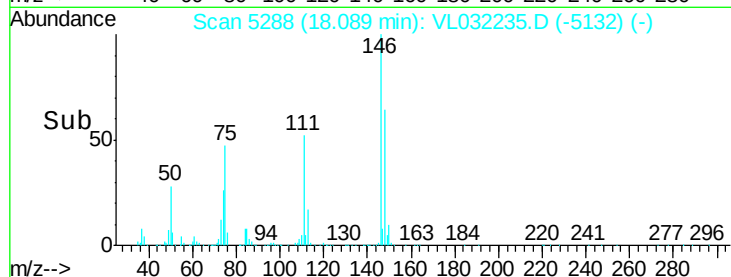
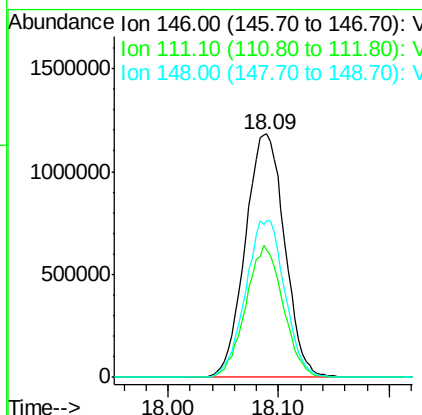
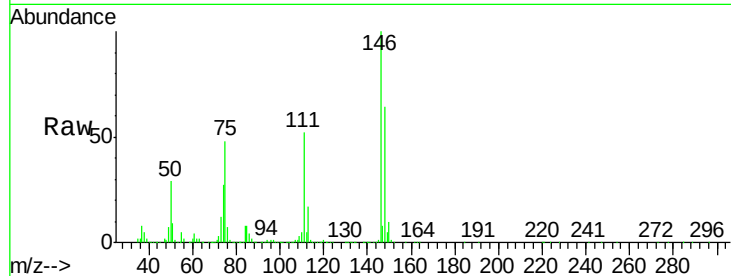
#77
 1,2-Dichlorobenzene
 Concen: 7.58 ppbv
 RT: 18.09 min Scan# 5288
 Delta R.T. 0.00 min
 Lab File: VL032235.D
 Acq: 13 Jul 2018 00:11

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL071218

Tot Ion	Ratio	Lower	Upper
146	100		
111	51.6	26.1	78.3
148	64.3	32.0	96.0

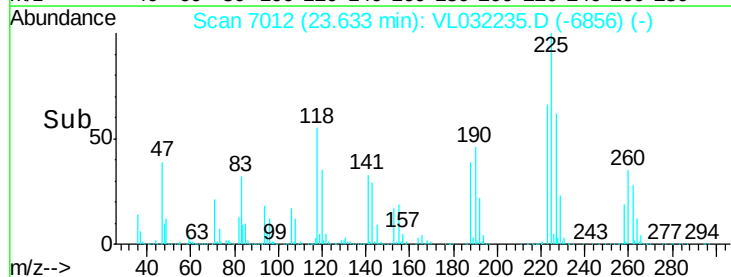
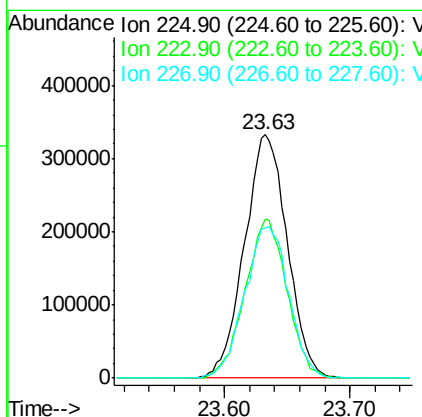
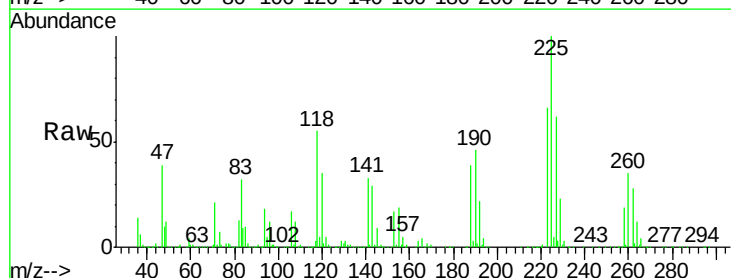
Manual Integrations
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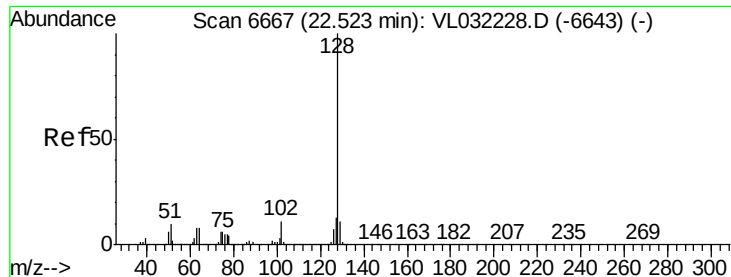
MMDadoda
 7/13/2018 5:22:16 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 6.56 ppbv
 RT: 23.63 min Scan# 7012
 Delta R.T. 0.00 min
 Lab File: VL032235.D
 Acq: 13 Jul 2018 00:11

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.0	50.3	75.5
227	64.2	50.9	76.3





#79

Naphthalene

Concen: 10.43 ppbv

RT: 22.53 min Scan# 6668

Delta R.T. 0.00 min

Lab File: VL032235.D

Acq: 13 Jul 2018 00:11

Instrument :

MSVOA_L

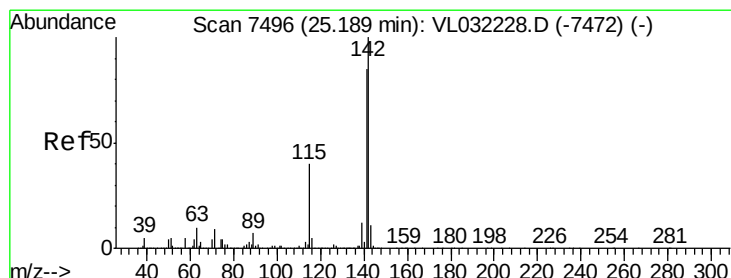
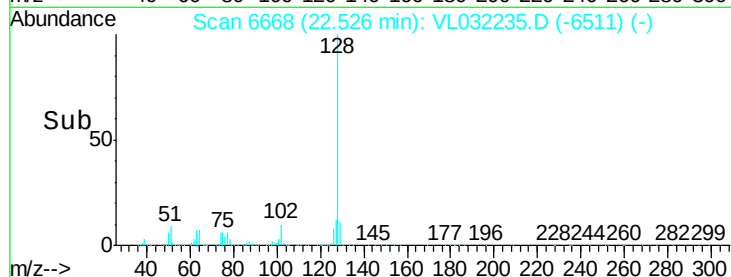
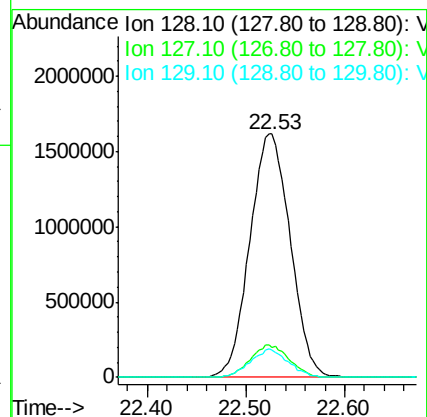
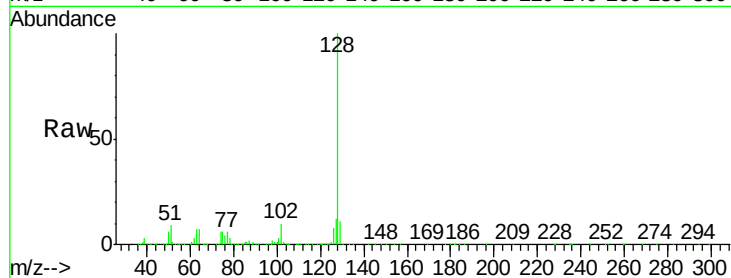
ClientSampleId :

ICVVL071218

Tot Ion:	128	Resp:	4569017
Ion	Ratio	Lower	Upper
128	100		
127	12.1	10.0	15.0
129	11.1	9.0	13.4

Manual Integrations
APPROVED

MMDadoda
7/13/2018 5:22:16 PM



#80

Naphthalene, 2-methyl-

Concen: 17.54 ppbv

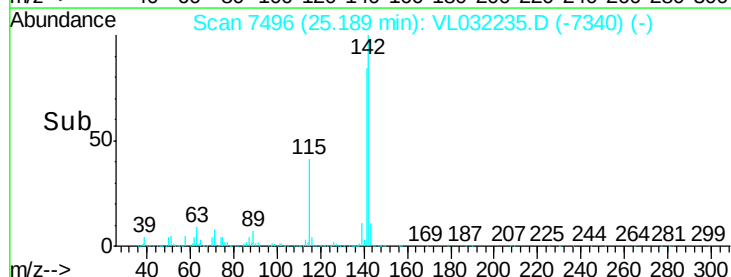
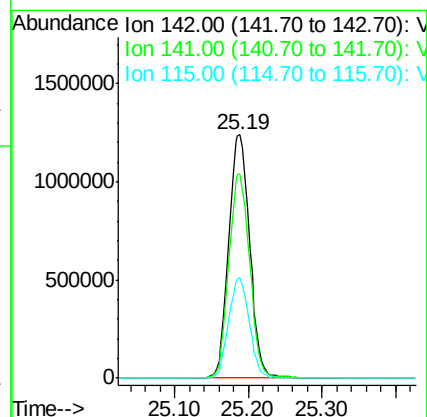
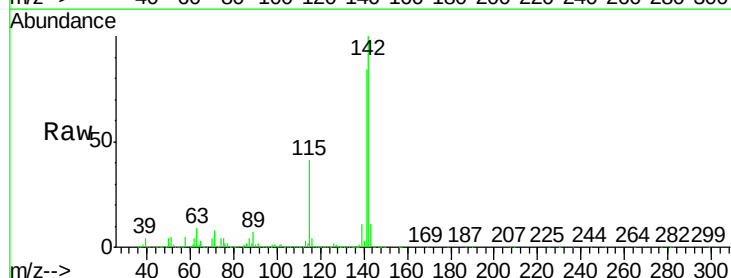
RT: 25.19 min Scan# 7496

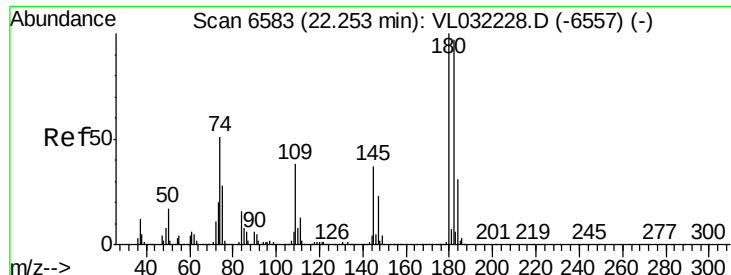
Delta R.T. 0.00 min

Lab File: VL032235.D

Acq: 13 Jul 2018 00:11

Tgt Ion:	142	Resp:	2453630
Ion	Ratio	Lower	Upper
142	100		
141	83.7	67.0	100.6
115	40.7	32.6	49.0





#81
 1,2,4-Trichlorobenzene
 Concen: 9.64 ppbv
 RT: 22.25 min Scan# 6582
 Delta R.T. -0.00 min
 Lab File: VL032235.D
 Acq: 13 Jul 2018 00:11

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL071218

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.1	114.1
184	30.4	24.2	36.4

Manual Integrations
 APPROVED

MMDadoda
 7/13/2018 5:22:16 PM

