

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071218\
 Data File : VL032229.D
 Acq On : 12 Jul 2018 18:44
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 7/13/2018 5:22:09 PM

Quant Time: Jul 13 03:52:32 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 03:36:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1887912	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.38	114	4594976	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.34	117	4961644	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.67	95	3767236	9.89	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	642622	2.51	ppbv	100
3) Chlorodifluoromethane	3.07	51	433575	1.83	ppbv	97
4) Chloromethane	3.22	50	251777	1.96	ppbv	97
5) Vinyl Chloride	3.35	62	241912	1.90	ppbv	97
6) Bromomethane	3.58	94	143594	1.97	ppbv	95
7) Chloroethane	3.66	64	88545	1.95	ppbv	97
8) Dichlorotetrafluoroethane	3.27	85	539918	1.89	ppbv	99
9) Propene	3.09	41	182497	1.68	ppbv	100
10) Heptane	8.33	43	637787	2.04	ppbv	100
11) Trichlorofluoromethane	4.07	101	530567	1.99	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.62	101	345264	1.95	ppbv	99
13) Ethanol	3.71	45	58382m	1.80	ppbv	
14) Bromoethene	3.85	108	162458	1.94	ppbv	99
15) Acetone	3.97	43	472172	2.15	ppbv	99
16) 1,3-Butadiene	3.42	39	221011	2.02	ppbv	98
17) tert-Butyl alcohol	4.43	59	197903	1.47	ppbv	100
18) 1,1-Dichloroethene	4.42	96	160153	1.91	ppbv	90
19) Isopropyl Alcohol	4.09	45	263366	1.49	ppbv #	96
20) Methylene Chloride	4.48	84	151481	1.90	ppbv	96
21) Allyl Chloride	4.55	41	265861	1.80	ppbv	99
22) trans-1,2-Dichloroethene	5.04	96	158723	1.79	ppbv	95
23) Vinyl Acetate	5.23	43	770994	1.93	ppbv #	98
24) 1,1-Dichloroethane	5.16	63	546456	2.11	ppbv	98
25) Ethyl Acetate	5.85	43	928152	2.04	ppbv	100
26) Hexane	5.86	57	432362	2.05	ppbv	98
27) Carbon Disulfide	4.69	76	349193	1.70	ppbv	97
28) Methyl tert-Butyl Ether	5.19	73	670835	1.83	ppbv	100
29) Chloroform	5.92	83	643333	2.10	ppbv	100
30) Cyclohexane	7.33	84	394447	1.96	ppbv	87
31) cis-1,2-Dichloroethene	5.72	61	419575	1.99	ppbv	97
32) 1,1,1-Trichloroethane	6.70	97	694050	2.13	ppbv	99
34) 2-Butanone	5.41	43	637781	2.19	ppbv	99
35) Carbon Tetrachloride	7.22	117	693161	2.18	ppbv	98
36) Benzene	7.09	78	1000724	2.21	ppbv	99
37) 1,2-Dichloroethane	6.49	62	503259	2.22	ppbv	99
38) Trichloroethene	8.05	130	337782	1.98	ppbv	97
39) 1,2-Dichloropropane	7.82	63	388742	2.20	ppbv	92
40) 1,4-Dioxane	8.06	88	125539	1.90	ppbv #	95
41) Tetrahydrofuran	6.24	42	352872	2.01	ppbv	99
42) Bromodichloromethane	8.01	83	775986	2.25	ppbv	97
43) Methyl Methacrylate	8.22	69	387348	2.12	ppbv	98

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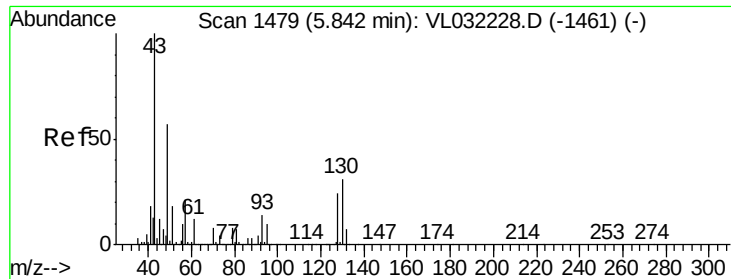
Manual Integrations
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Quant Time: Jul 13 03:52:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 13 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.08	57	1764805	2.28	ppbv	99
45) t-1,3-Dichloropropene	9.51	75	429340	1.88	ppbv	96
46) cis-1,3-Dichloropropene	8.93	75	586102	2.13	ppbv	99
47) 1,1,2-Trichloroethane	9.71	97	412617	2.26	ppbv	98
48) Dibromochloromethane	10.54	129	622480	2.22	ppbv	100
49) Bromoform	13.30	173	509218	2.18	ppbv	99
50) 4-Methyl-2-Pentanone	8.96	43	1122629	2.31	ppbv	99
51) 2-Hexanone	10.37	43	957785	2.38	ppbv #	99
52) Tetrachloroethene	11.47	164	323045	2.01	ppbv	93
53) Toluene	10.04	91	1129452	2.12	ppbv	98
54) 1,2-Dibromoethane	10.85	107	597522	2.19	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.37	131	473206	2.14	ppbv #	1
57) Chlorobenzene	12.39	112	903742	2.11	ppbv	98
58) Ethyl Benzene	12.96	91	1621365	2.03	ppbv	95
59) m/p-Xylene	13.24	91	2633744m	4.11	ppbv	
60) o-Xylene	13.94	91	1305664	2.05	ppbv	98
61) Styrene	13.78	104	983698	1.91	ppbv	99
62) Isopropylbenzene	14.92	105	1823789	1.88	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.93	83	1045264m	2.10	ppbv	
64) n-propylbenzene	15.82	120	456754	1.81	ppbv	87
65) tert-Butylbenzene	17.00	119	1581149	1.85	ppbv	99
66) Benzyl Chloride	17.25	91	779968	1.51	ppbv	99
67) sec-Butylbenzene	17.55	105	2330702	1.86	ppbv	99
69) p-Isopropyltoluene	17.91	119	1768057	1.77	ppbv	99
70) n-Butylbenzene	18.81	91	1951720	1.85	ppbv	99
71) 2-Chlorotoluene	15.71	91	1445346	1.91	ppbv	100
72) 4-Ethyltoluene	16.09	105	1458893	1.78	ppbv	99
73) 1,3,5-Trimethylbenzene	16.25	105	1344054	1.74	ppbv	99
74) 1,2,4-Trimethylbenzene	17.02	105	1372859	1.76	ppbv #	87
75) 1,3-Dichlorobenzene	17.26	146	826731	1.88	ppbv	99
76) 1,4-Dichlorobenzene	17.40	146	814893m	1.83	ppbv	
77) 1,2-Dichlorobenzene	18.09	146	825556	1.88	ppbv	98
78) Hexachloro-1,3-Butadiene	23.63	225	267438	1.79	ppbv	99
79) Naphthalene	22.52	128	724428	1.04	ppbv	98
80) Naphthalene, 2-methyl-	25.19	142	48964	0.20	ppbv	96
81) 1,2,4-Trichlorobenzene	22.25	180	395965	1.27	ppbv	98

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.84 min Scan# 1478

Delta R.T. -0.00 min

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 49 Resp: 1887912

Ion Ratio Lower Upper

49 100

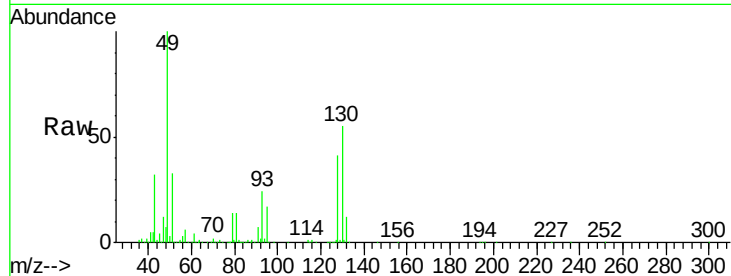
128 42.0 20.9 62.8

130 53.3 27.0 81.0

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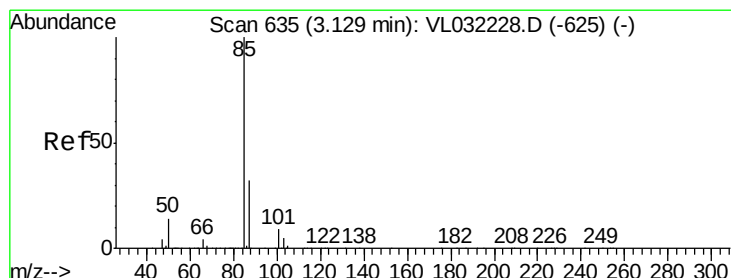
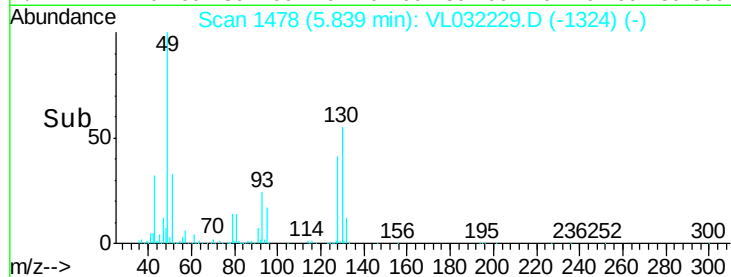
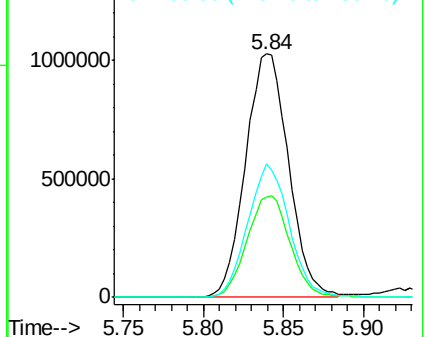
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 2.51 ppbv

RT: 3.13 min Scan# 635

Delta R.T. -0.00 min

Lab File: VL032229.D

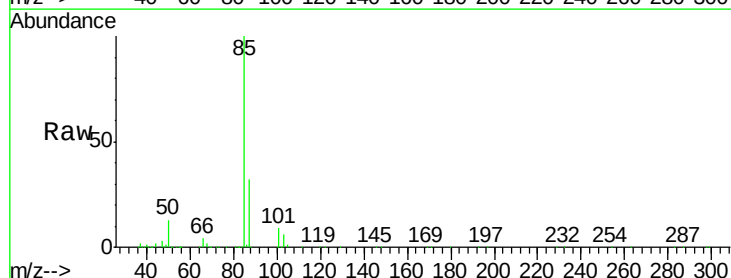
Acq: 12 Jul 2018 18:44

Tgt Ion: 85 Resp: 642622

Ion Ratio Lower Upper

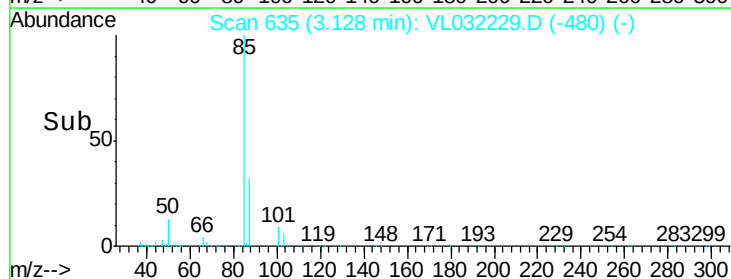
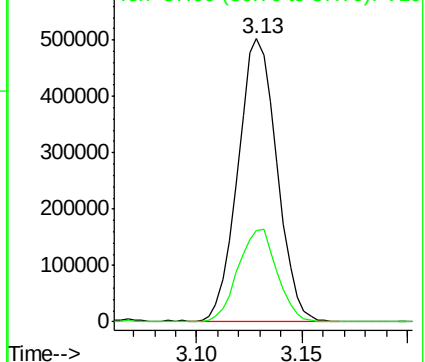
85 100

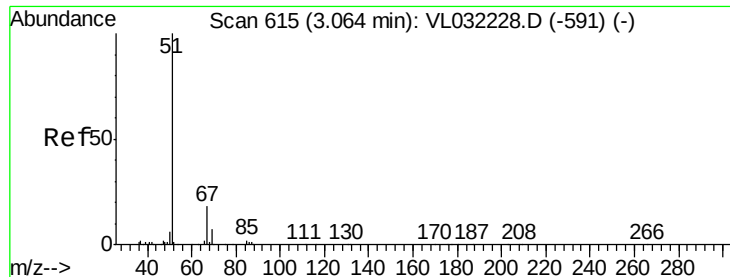
87 32.2 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.83 ppbv

RT: 3.07 min Scan# 616

Delta R.T. 0.00 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 51 Resp: 433575

Ion Ratio Lower Upper

51 100

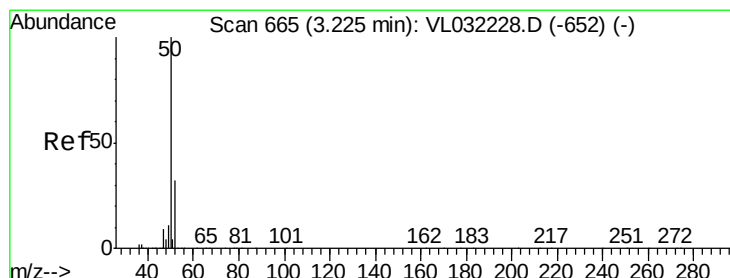
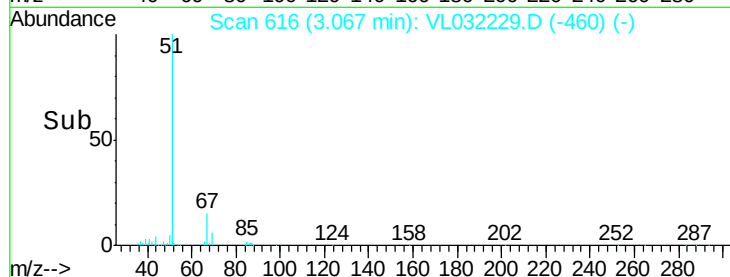
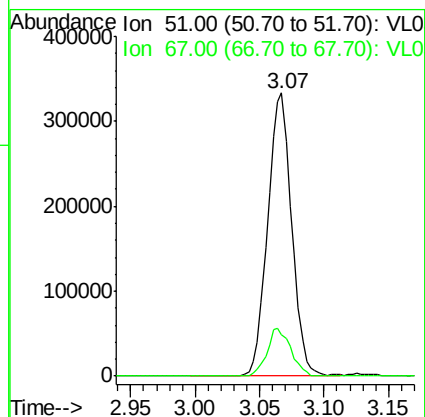
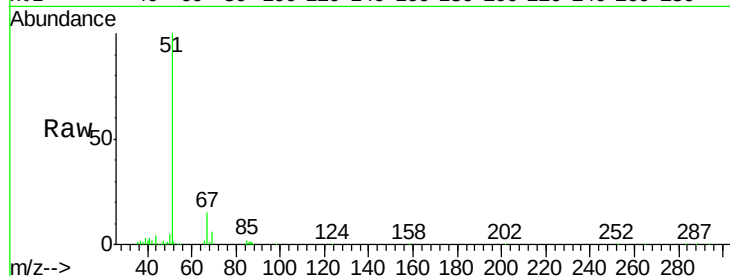
67 16.9 14.6 22.0

Manual Integrations

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#4

Chloromethane

Concen: 1.96 ppbv

RT: 3.22 min Scan# 665

Delta R.T. -0.00 min

Lab File: VL032229.D

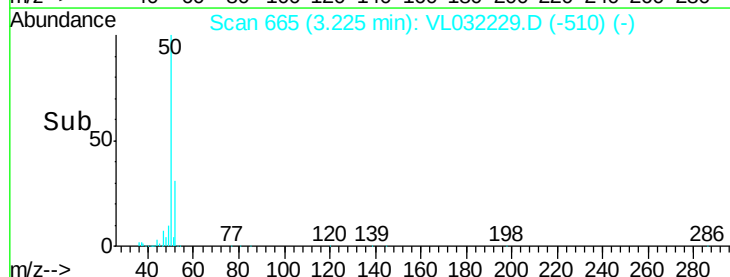
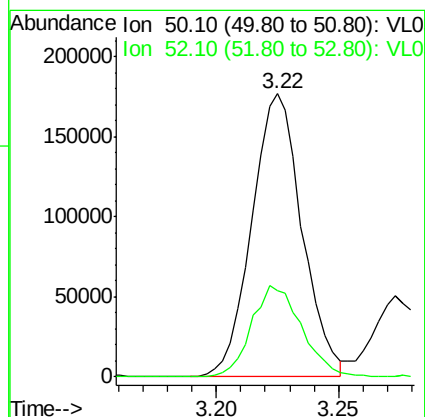
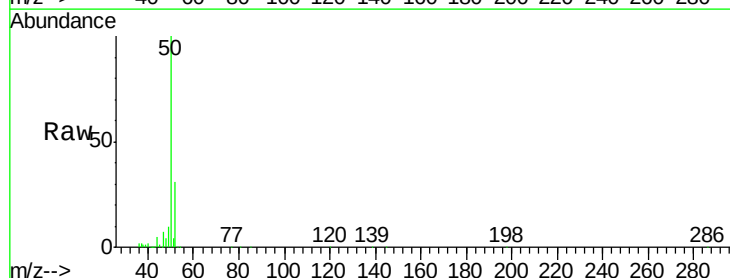
Acq: 12 Jul 2018 18:44

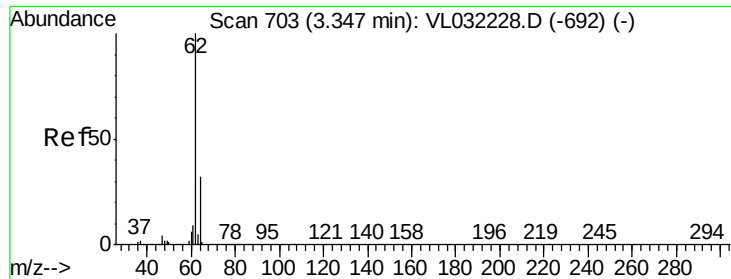
Tgt Ion: 50 Resp: 251777

Ion Ratio Lower Upper

50 100

52 30.5 25.7 38.5





#5

Vinyl Chloride

Concen: 1.90 ppbv

RT: 3.35 min Scan# 703

Delta R.T. -0.00 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 241912

Ion Ratio Lower Upper

62 100

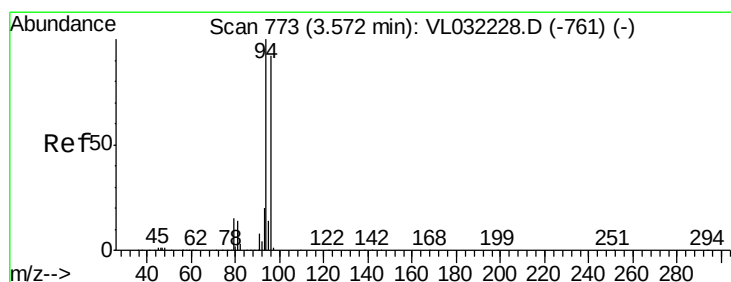
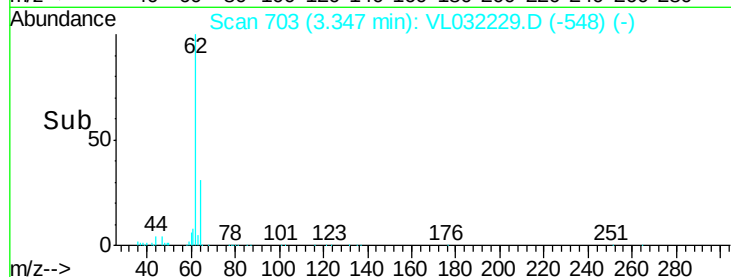
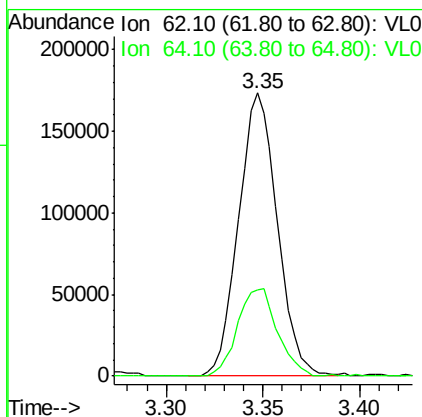
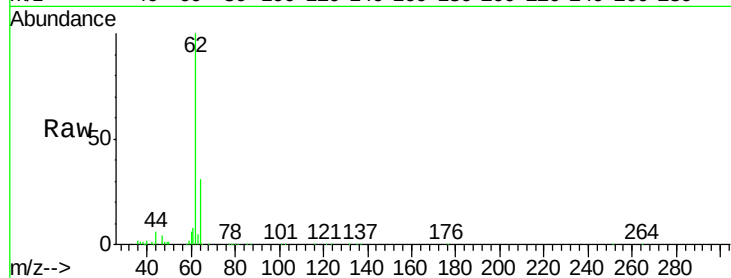
64 30.6 25.8 38.6

Manual Integrations

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#6

Bromomethane

Concen: 1.97 ppbv

RT: 3.58 min Scan# 774

Delta R.T. 0.00 min

Lab File: VL032229.D

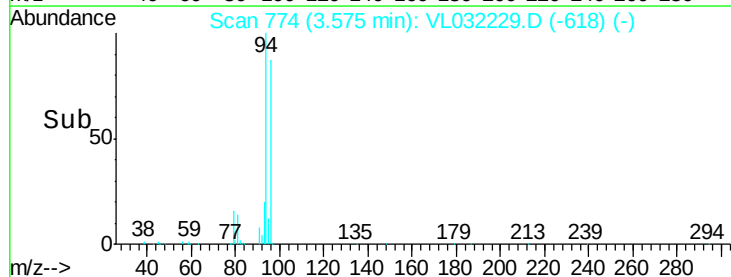
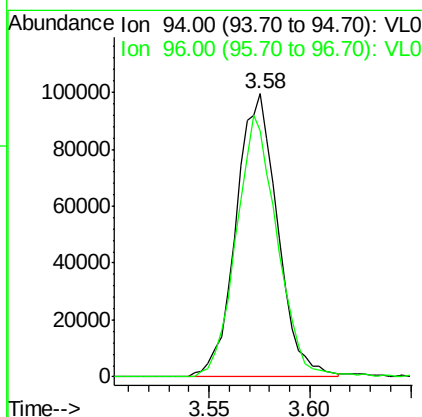
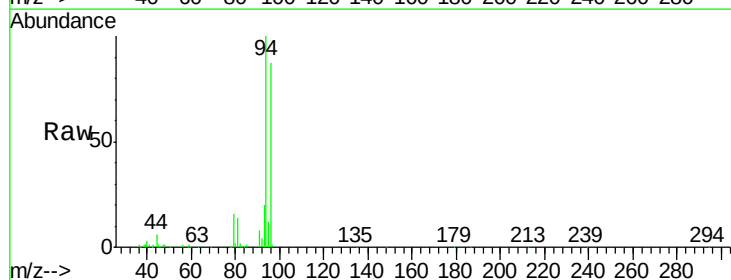
Acq: 12 Jul 2018 18:44

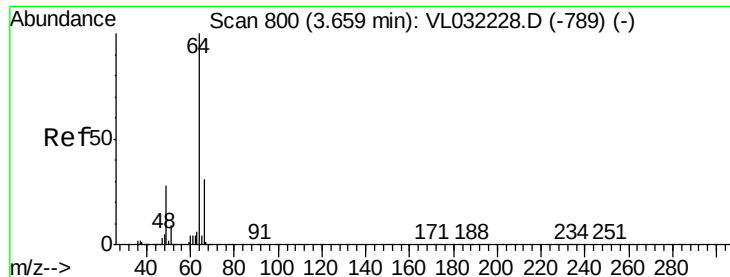
Tgt Ion: 94 Resp: 143594

Ion Ratio Lower Upper

94 100

96 86.9 73.5 110.3





#7

Chloroethane

Concen: 1.95 ppbv

RT: 3.66 min Scan# 800

Delta R.T. -0.00 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 64 Resp: 88545

Ion Ratio Lower Upper

64 100

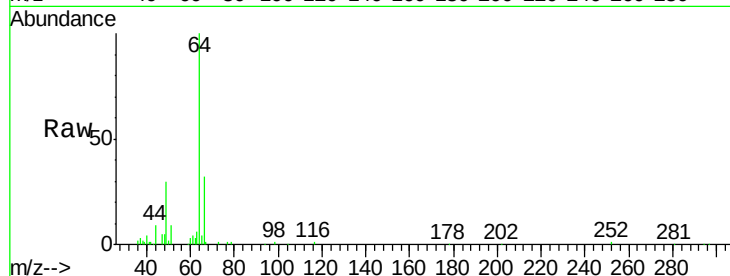
66 31.9 24.4 36.6

Manual Integrations

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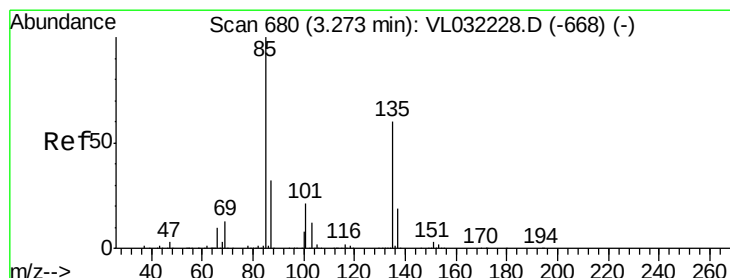
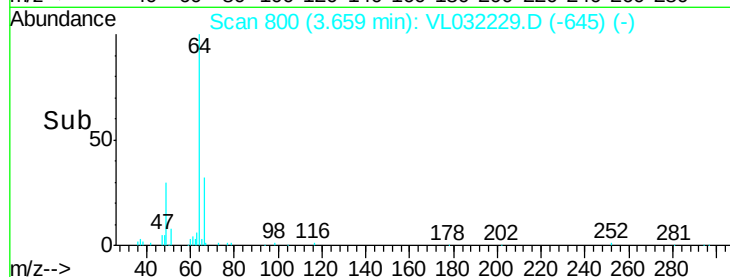
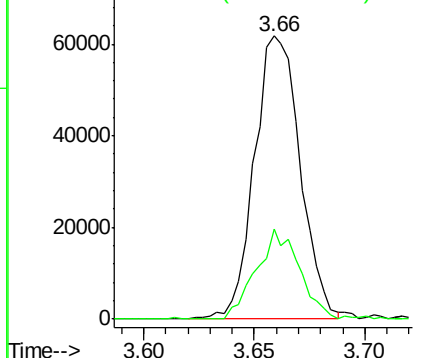
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 1.89 ppbv

RT: 3.27 min Scan# 680

Delta R.T. -0.00 min

Lab File: VL032229.D

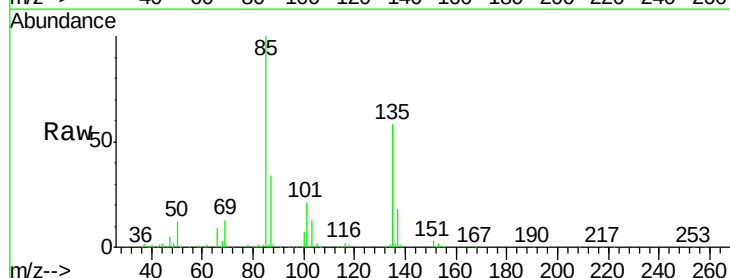
Acq: 12 Jul 2018 18:44

Tgt Ion: 85 Resp: 539918

Ion Ratio Lower Upper

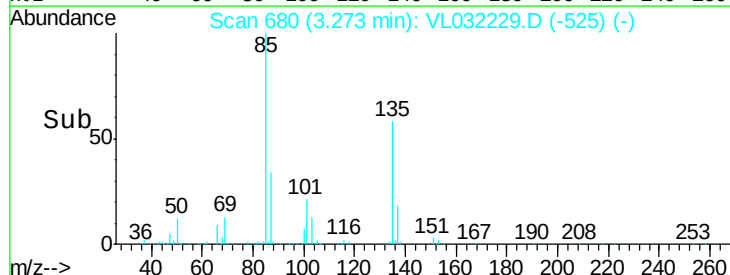
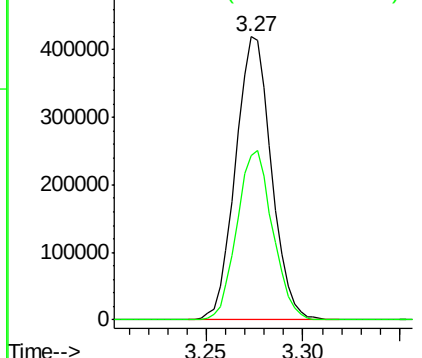
85 100

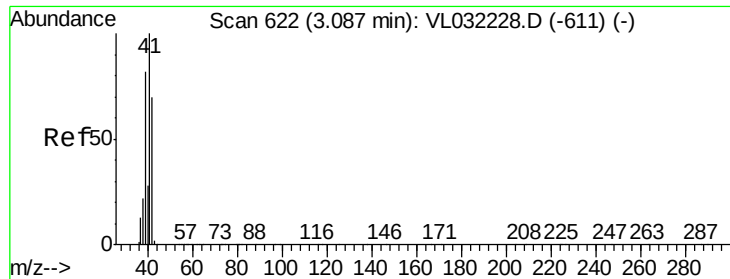
135 59.9 48.6 72.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 1.68 ppbv

RT: 3.09 min Scan# 622

Delta R.T. -0.00 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Instrument :

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ClientSampleId :

VSTDIC002

Tot Ion: 41 Resp: 182497

Ion Ratio Lower Upper

41 100

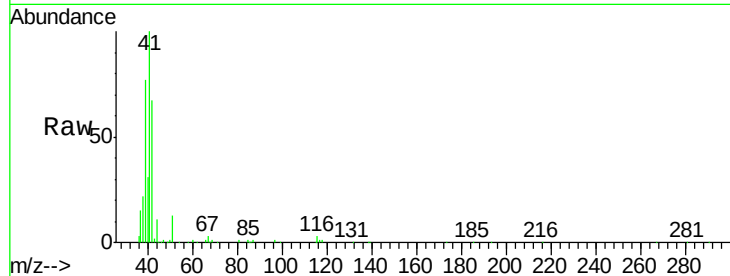
42 70.0 56.2 84.4

Manual Integrations

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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.09

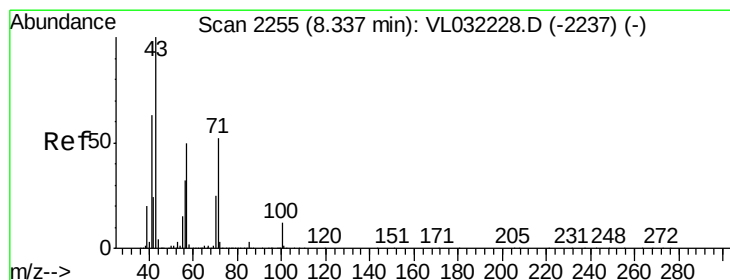
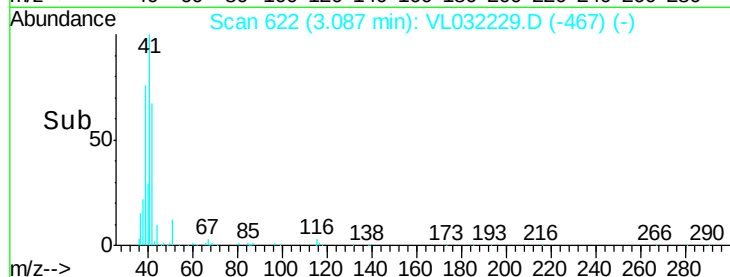
150000

100000

50000

0

Time-->



#10

Heptane

Concen: 2.04 ppbv

RT: 8.33 min Scan# 2254

Delta R.T. -0.00 min

Lab File: VL032229.D

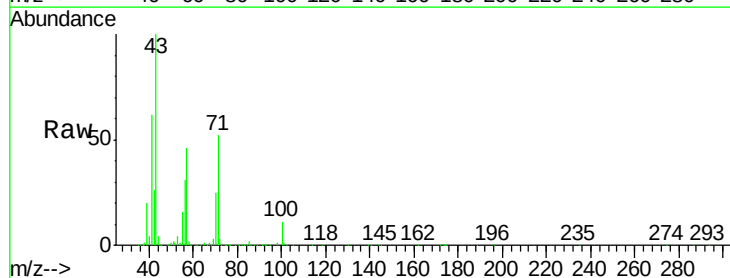
Acq: 12 Jul 2018 18:44

Tgt Ion: 43 Resp: 637787

Ion Ratio Lower Upper

43 100

57 50.8 40.7 61.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.33

400000

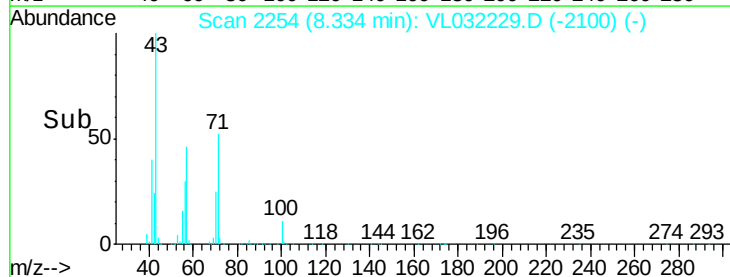
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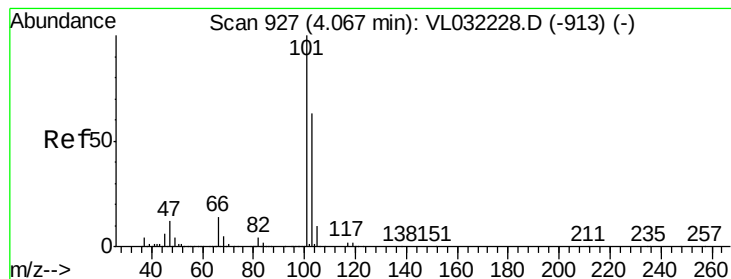
200000

100000

0

Time-->





#11

Trichlorofluoromethane

Concen: 1.99 ppbv

RT: 4.07 min Scan# 928

Delta R.T. 0.00 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:101 Resp: 530567

Ion Ratio Lower Upper

101 100

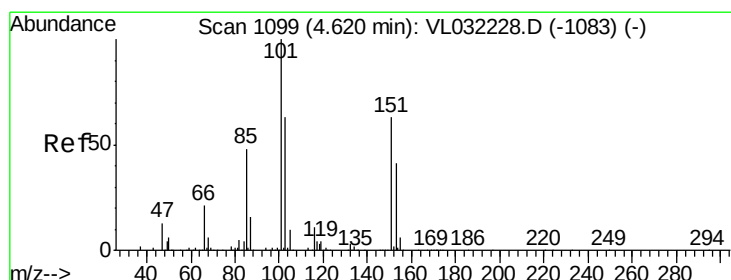
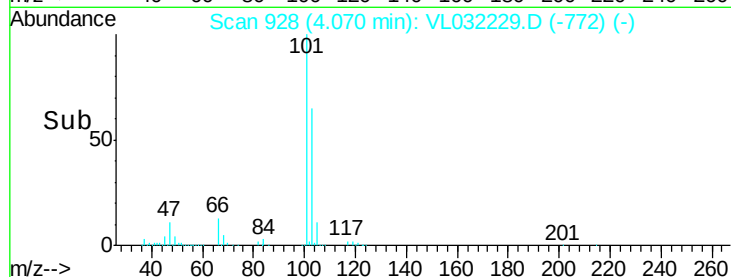
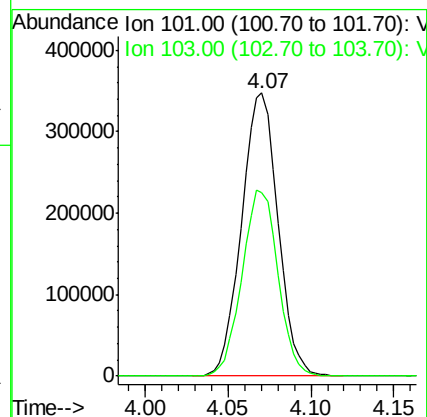
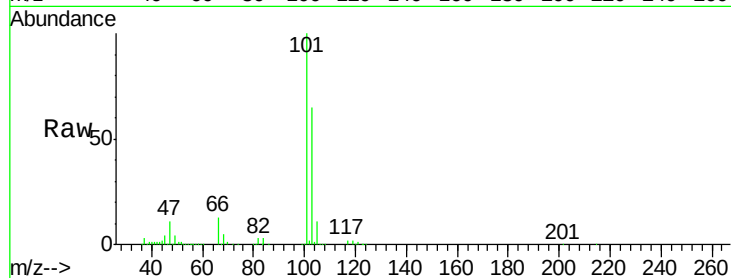
103 64.8 50.2 75.2

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 1.95 ppbv

RT: 4.62 min Scan# 1100

Delta R.T. 0.00 min

Lab File: VL032229.D

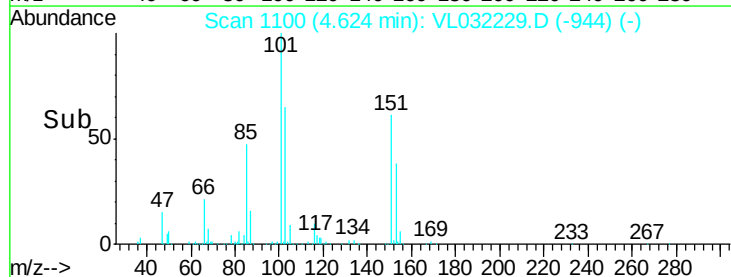
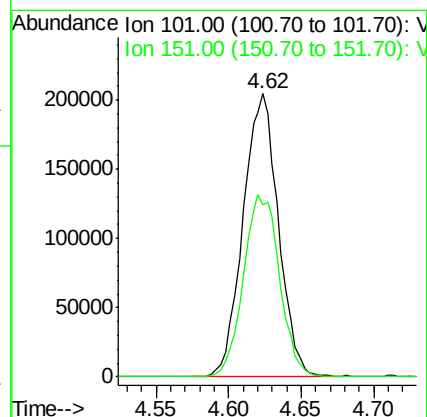
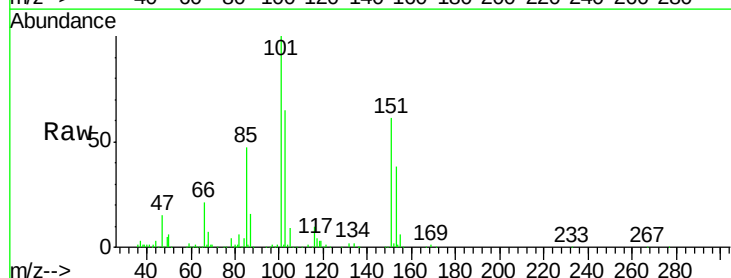
Acq: 12 Jul 2018 18:44

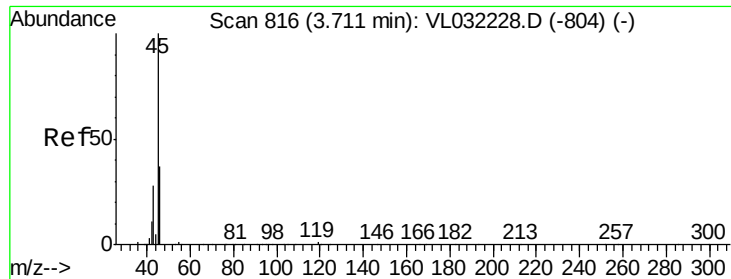
Tgt Ion:101 Resp: 345264

Ion Ratio Lower Upper

101 100

151 66.0 52.2 78.2





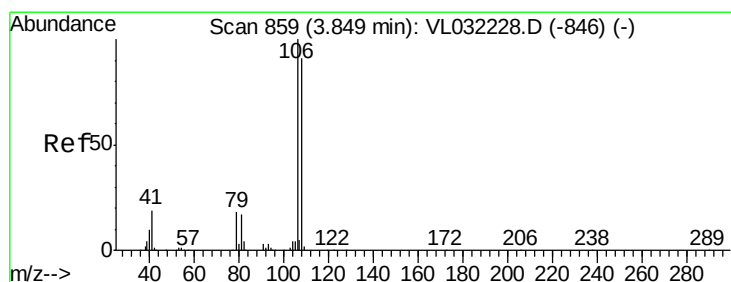
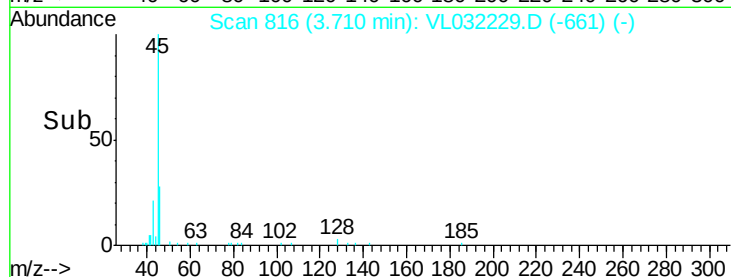
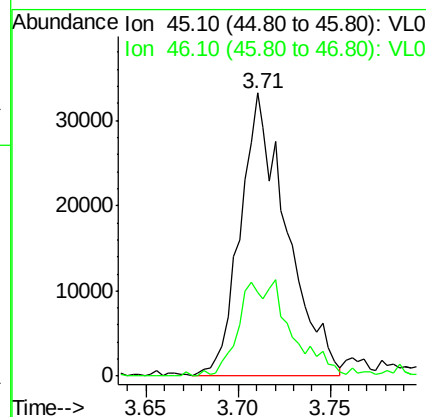
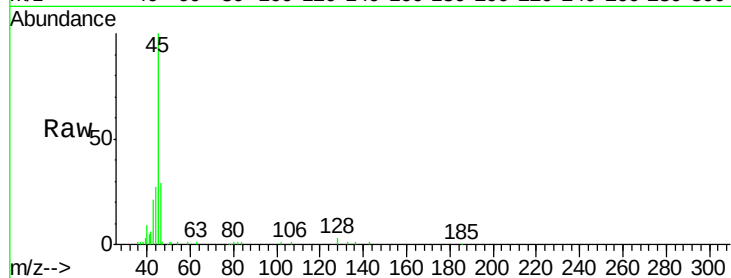
#13
Ethanol
Concen: 1.80 ppbv m
RT: 3.71 min Scan# 816
Delta R.T. -0.00 min
Lab File: VL032229.D
Acq: 12 Jul 2018 18:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
45	100		
46	0.0	15.5	61.9#

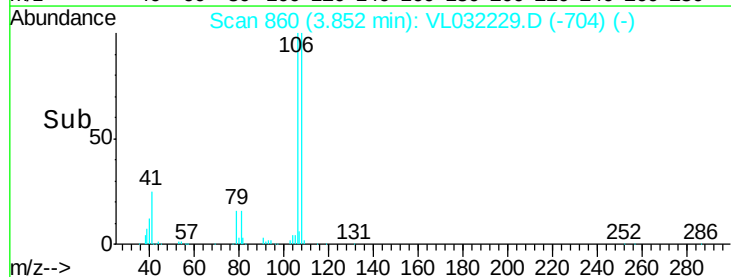
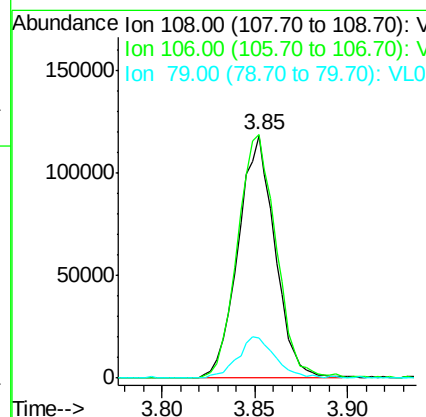
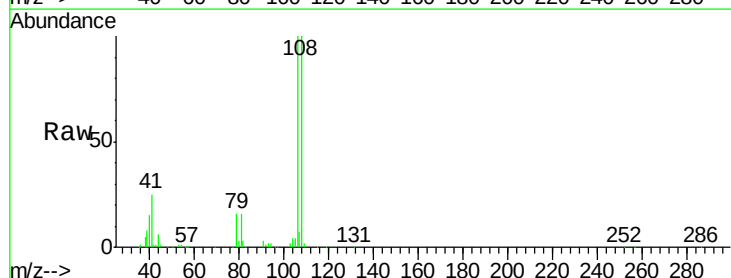
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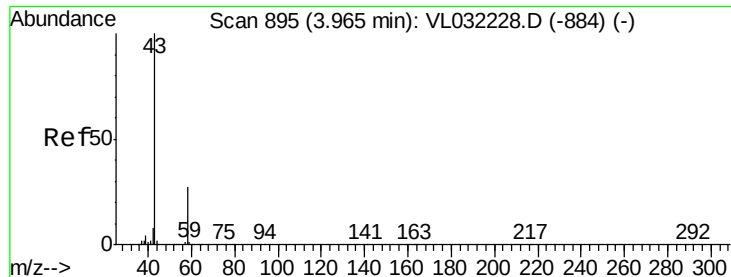
MMDadoda
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#14
Bromoethene
Concen: 1.94 ppbv
RT: 3.85 min Scan# 860
Delta R.T. 0.00 min
Lab File: VL032229.D
Acq: 12 Jul 2018 18:44

Tgt Ion	Ratio	Lower	Upper
108	100		
106	106.0	85.5	128.3
79	17.6	14.2	21.4





#15

Acetone

Concen: 2.15 ppbv

RT: 3.97 min Scan# 896

Delta R.T. 0.00 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 43 Resp: 472172

Ion Ratio Lower Upper

43 100

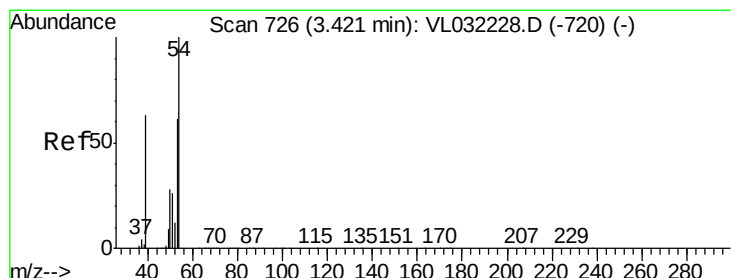
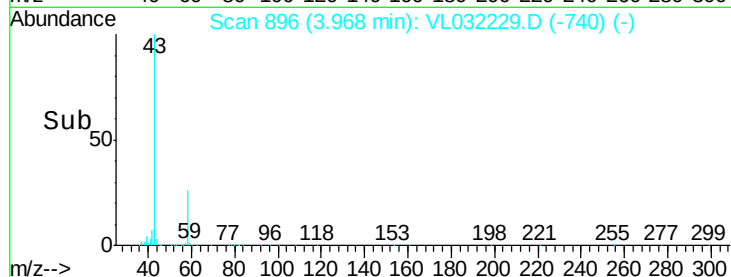
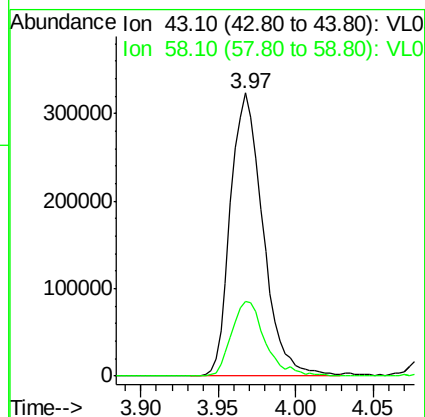
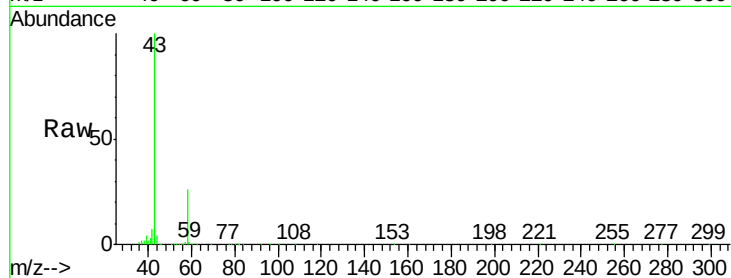
58 27.5 21.5 32.3

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#16

1,3-Butadiene

Concen: 2.02 ppbv

RT: 3.42 min Scan# 725

Delta R.T. -0.00 min

Lab File: VL032229.D

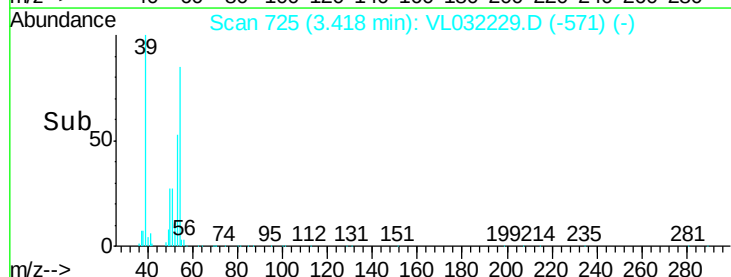
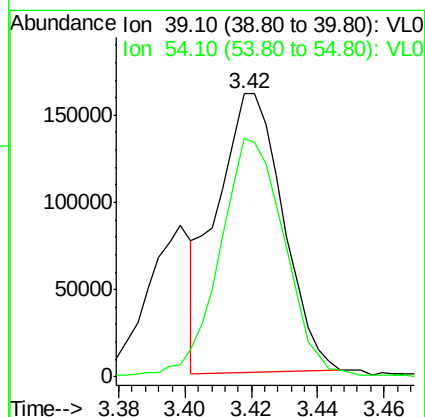
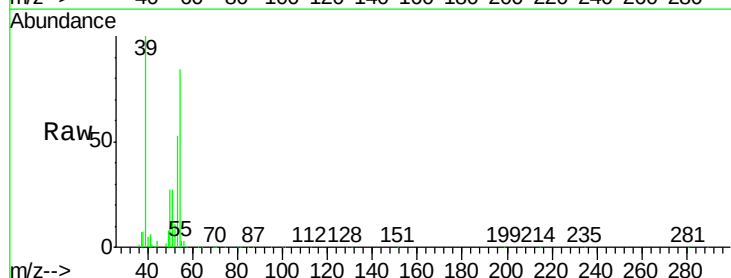
Acq: 12 Jul 2018 18:44

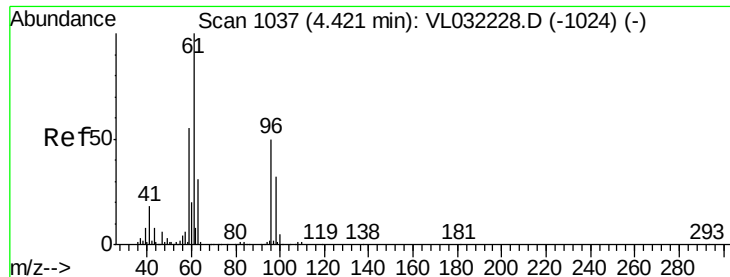
Tgt Ion: 39 Resp: 221011

Ion Ratio Lower Upper

39 100

54 85.2 70.0 105.0





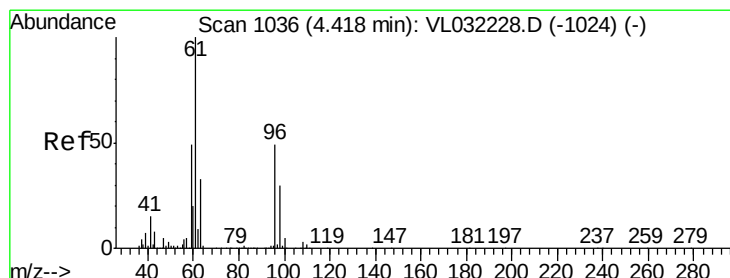
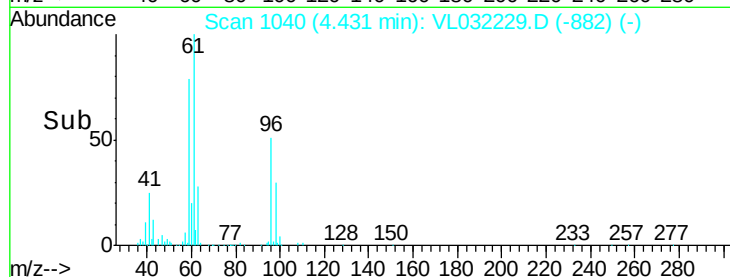
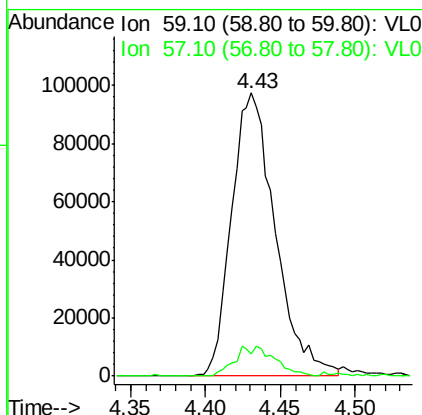
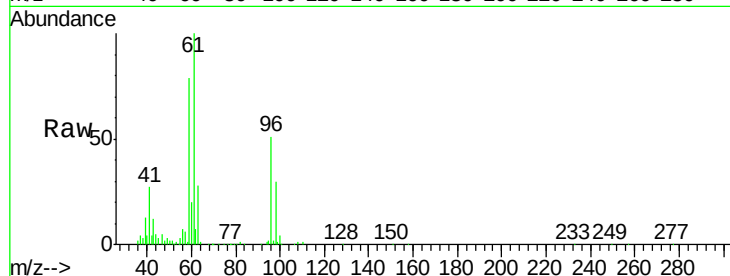
#17
 tert-Butyl alcohol
 Concen: 1.47 ppbv
 RT: 4.43 min Scan# 1040
 Delta R.T. 0.01 min
 Lab File: VL032229.D
 Acq: 12 Jul 2018 18:44

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDIC002

Tot Ion: 59 Resp: 197903
 Ion Ratio Lower Upper
 59 100
 57 10.6 8.4 12.6

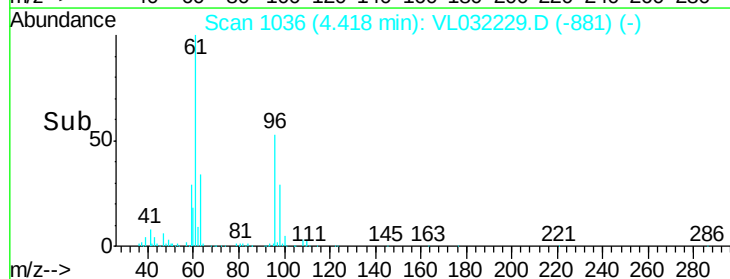
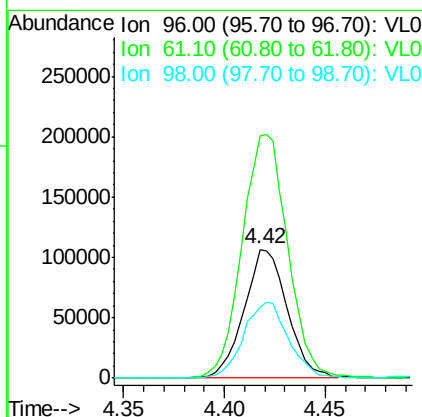
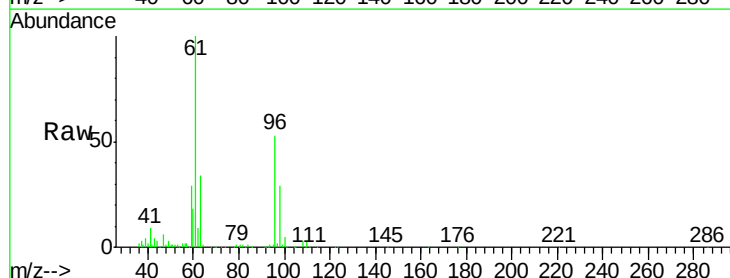
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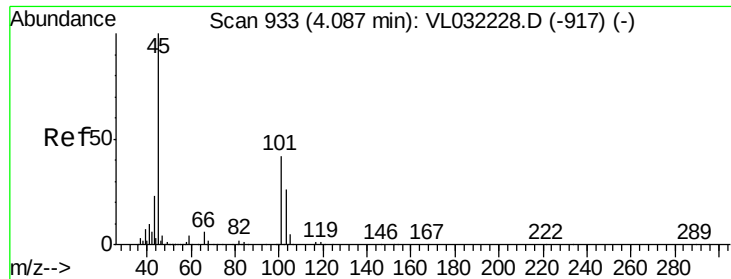
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#18
 1,1-Dichloroethene
 Concen: 1.91 ppbv
 RT: 4.42 min Scan# 1036
 Delta R.T. -0.00 min
 Lab File: VL032229.D
 Acq: 12 Jul 2018 18:44

Tgt Ion: 96 Resp: 160153
 Ion Ratio Lower Upper
 96 100
 61 187.8 163.0 244.4
 98 55.0 48.5 72.7





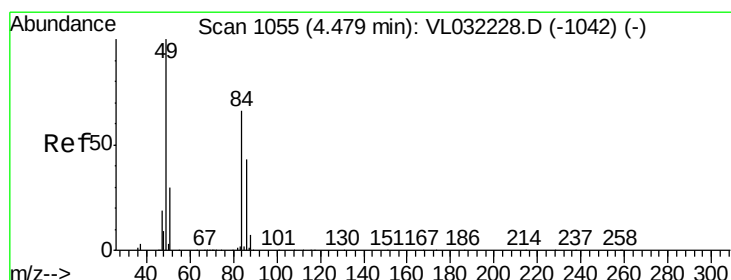
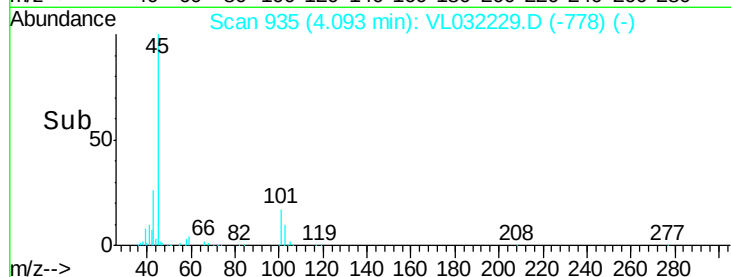
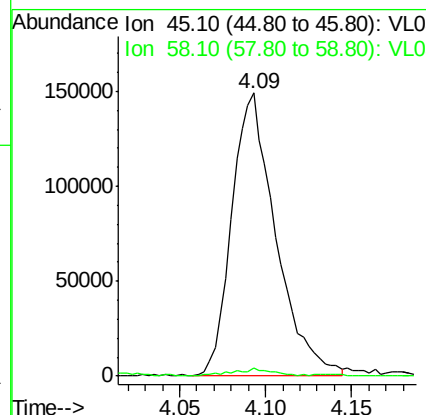
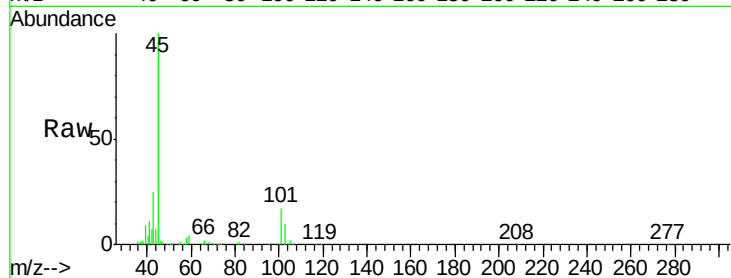
#19
Isopropyl Alcohol
Concen: 1.49 ppbv
RT: 4.09 min Scan# 935
Delta R.T. 0.01 min
Lab File: VL032229.D
Acq: 12 Jul 2018 18:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 45 Resp: 263366
Ion Ratio Lower Upper
45 100
58 3.2 1.3 1.9#

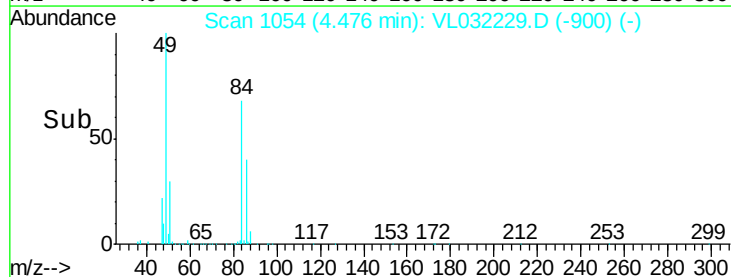
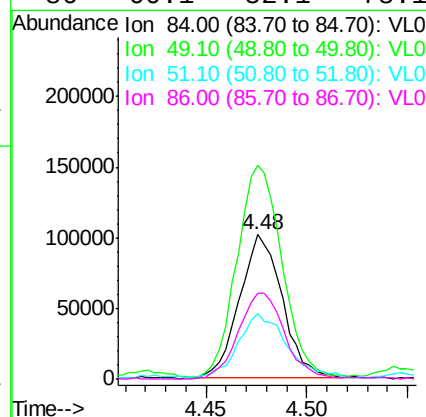
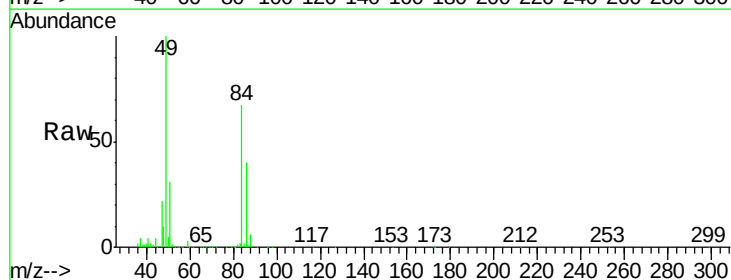
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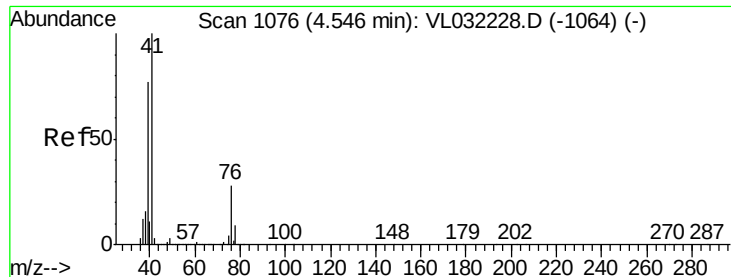
MMDadoda
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#20
Methylene Chloride
Concen: 1.90 ppbv
RT: 4.48 min Scan# 1054
Delta R.T. -0.00 min
Lab File: VL032229.D
Acq: 12 Jul 2018 18:44

Tgt Ion: 84 Resp: 151481
Ion Ratio Lower Upper
84 100
49 147.4 121.8 182.6
51 44.1 36.3 54.5
86 60.1 52.1 78.1





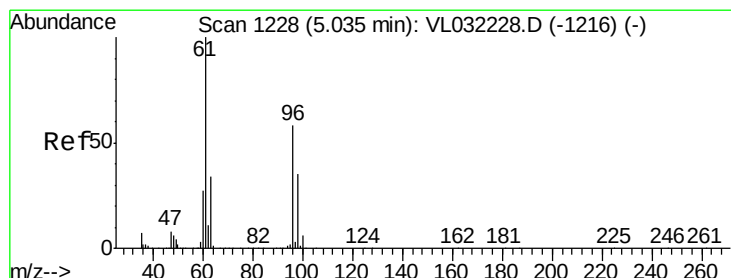
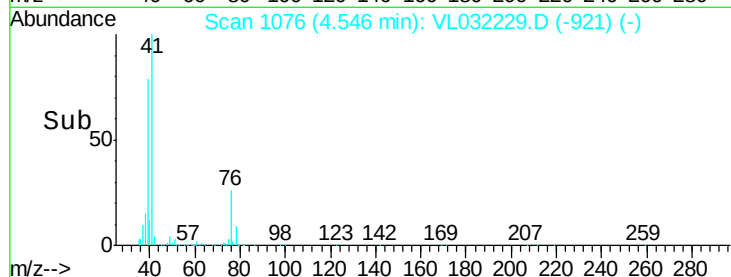
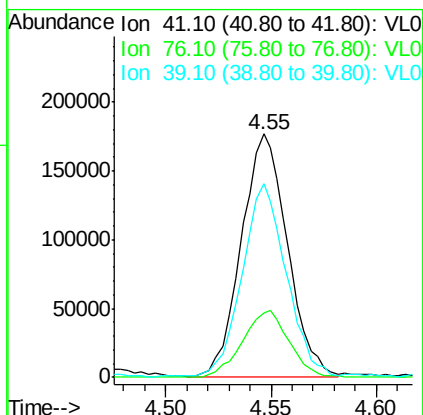
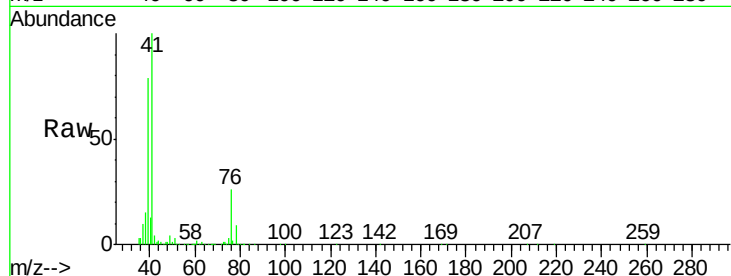
#21
Allvl Chloride
Concen: 1.80 ppbv
RT: 4.55 min Scan# 1076
Delta R.T. -0.00 min
Lab File: VL032229.D
Acq: 12 Jul 2018 18:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.1	22.9	34.3
39	76.9	62.3	93.5

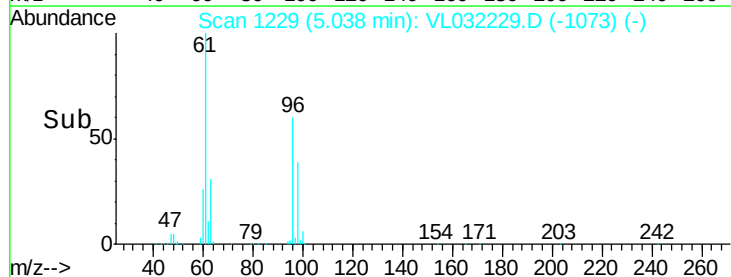
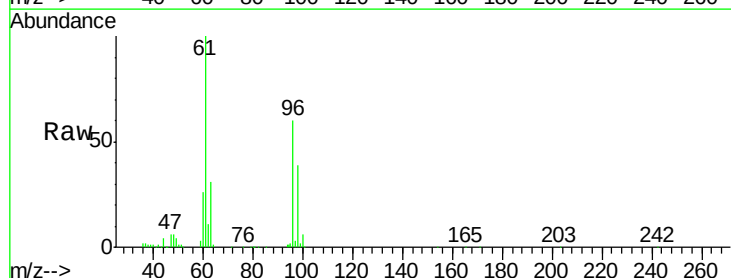
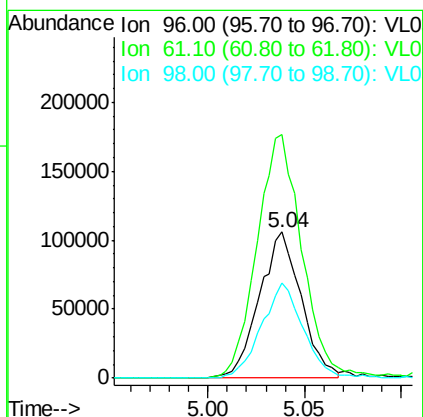
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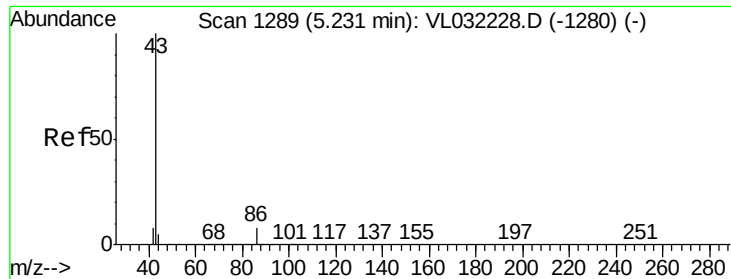
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 1.79 ppbv
RT: 5.04 min Scan# 1229
Delta R.T. 0.00 min
Lab File: VL032229.D
Acq: 12 Jul 2018 18:44

Tgt Ion	Ratio	Lower	Upper
96	100		
61	167.0	139.1	208.7
98	65.4	48.4	72.6





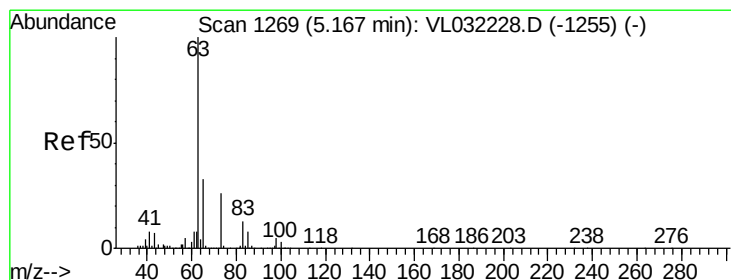
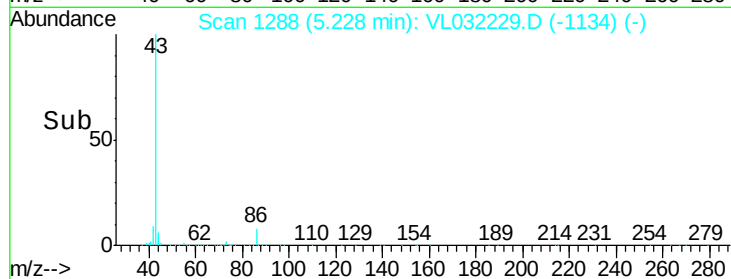
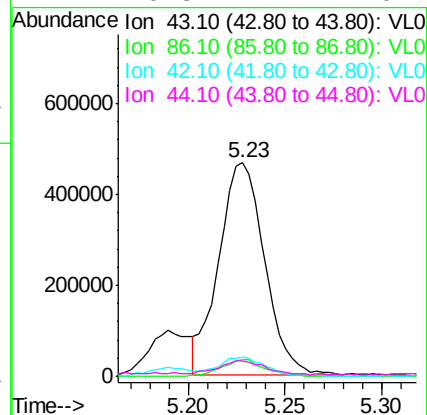
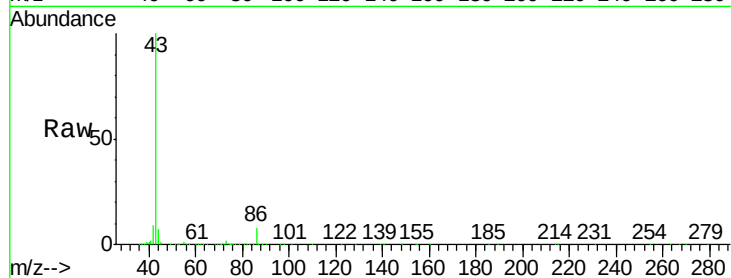
#23
 Vinyl Acetate
 Concen: 1.93 ppbv
 RT: 5.23 min Scan# 1288
 Delta R.T. -0.00 min
 Lab File: VL032229.D
 Acq: 12 Jul 2018 18:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	7.8	5.9	8.9	
42	9.1	7.0	10.6	
44	6.3	4.2	6.2#	

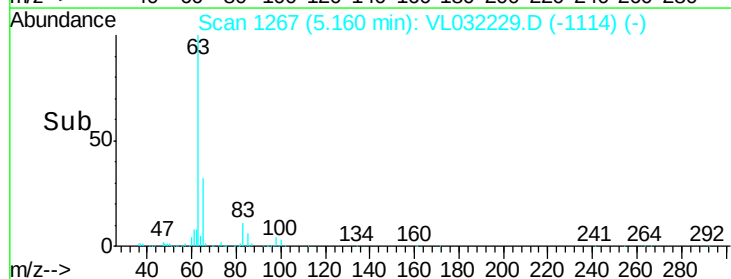
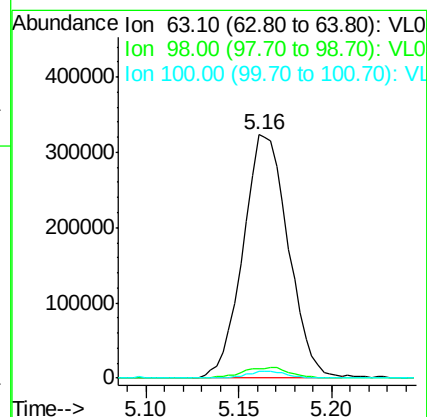
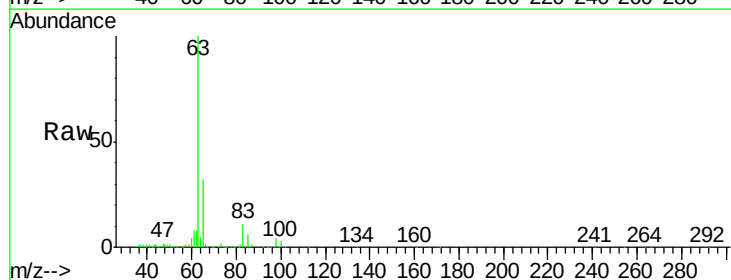
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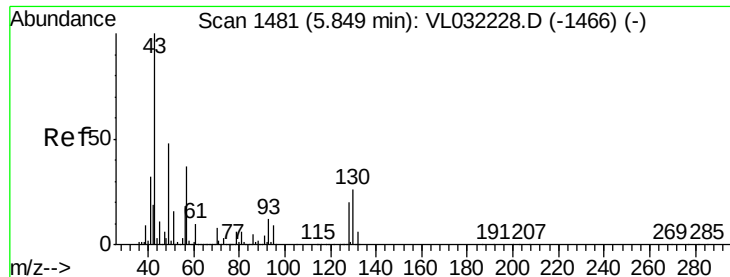
MMDadoda
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#24
 1,1-Dichloroethane
 Concen: 2.11 ppbv
 RT: 5.16 min Scan# 1267
 Delta R.T. -0.01 min
 Lab File: VL032229.D
 Acq: 12 Jul 2018 18:44

Tgt Ion	Ion	Ratio	Lower	Upper
63	100			
98	3.6	2.4	7.1	
100	2.7	1.5	4.4	





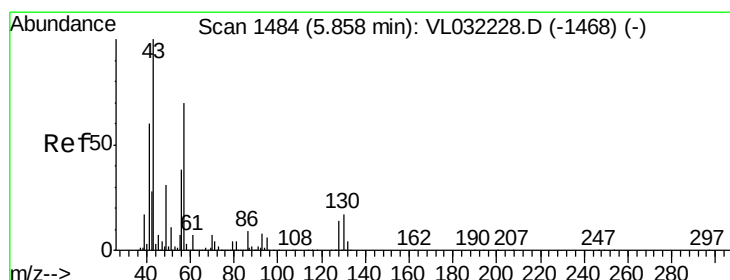
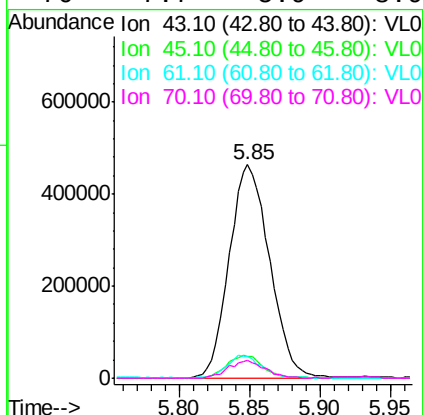
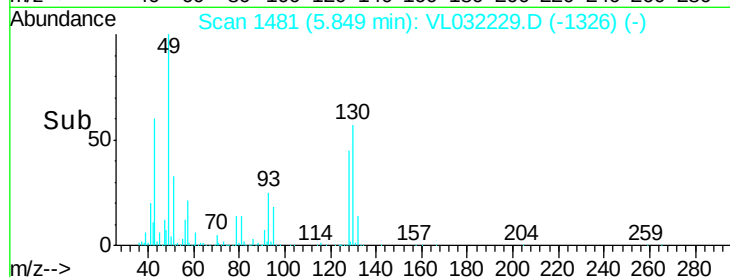
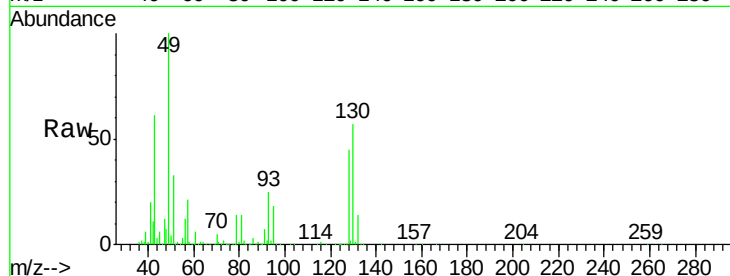
#25
Ethyl Acetate
Concen: 2.04 ppbv
RT: 5.85 min Scan# 1481
Delta R.T. -0.00 min
Lab File: VL032229.D
Acq: 12 Jul 2018 18:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100				
45	10.0	8.0	12.0		
61	9.7	7.7	11.5		
70	7.7	5.9	8.9		

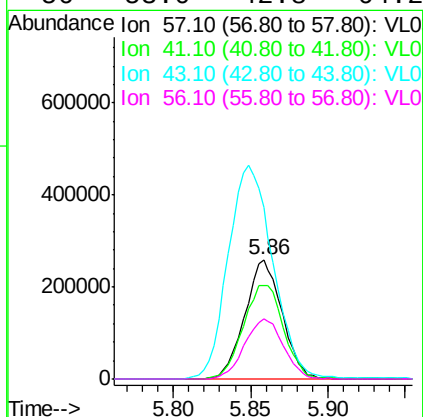
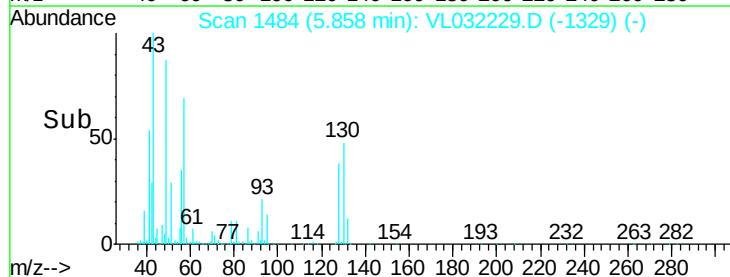
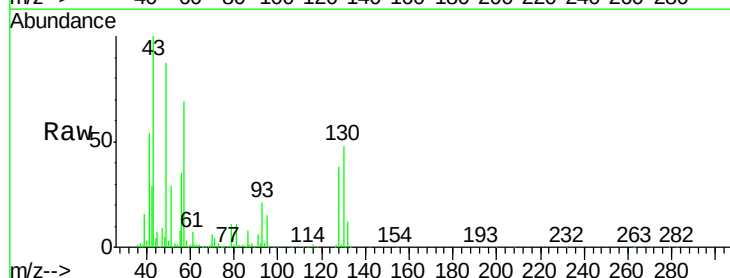
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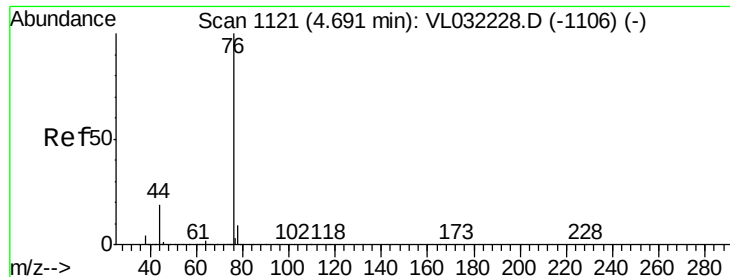
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#26
Hexane
Concen: 2.05 ppbv
RT: 5.86 min Scan# 1484
Delta R.T. -0.00 min
Lab File: VL032229.D
Acq: 12 Jul 2018 18:44

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	87.2	68.7	103.1		
43	215.9	176.2	264.2		
56	53.0	42.8	64.2		





#27

Carbon Disulfide

Concen: 1.70 ppbv

RT: 4.69 min Scan# 1122

Delta R.T. 0.00 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Instrument :

MSVOA_L

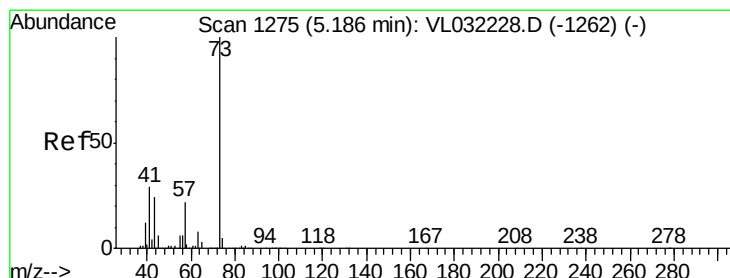
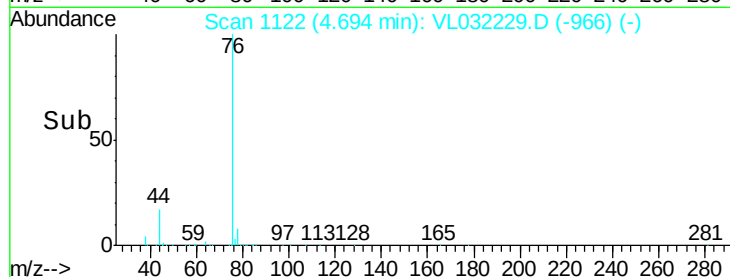
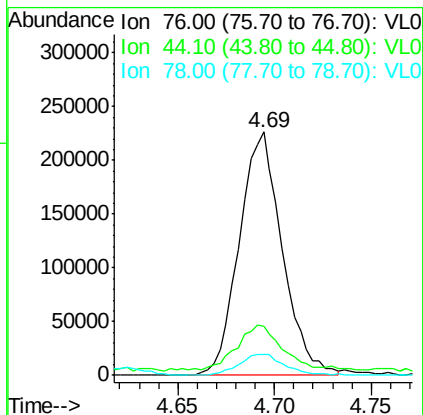
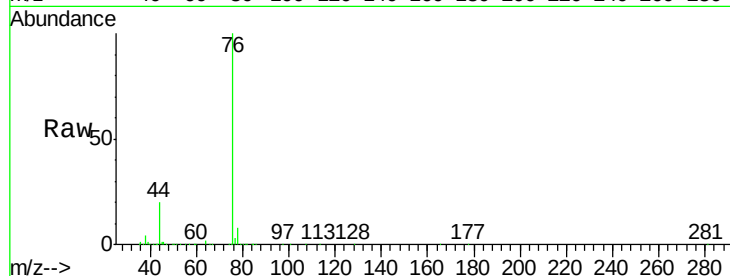
ClientSampleId :

VSTDIC002

Tot Ion:	76	Resp:	349193
Ion Ratio	Lower	Upper	
76	100		
44	20.6	15.1	22.7
78	9.3	7.4	11.0

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#28

Methyl tert-Butyl Ether

Concen: 1.83 ppbv

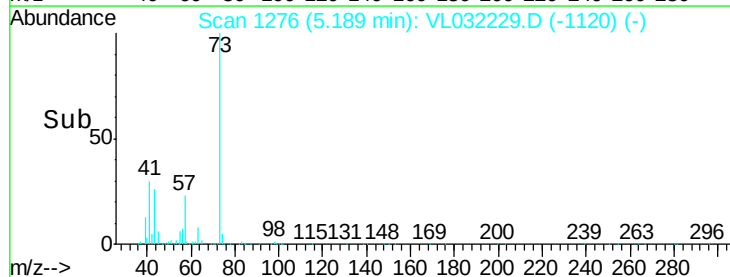
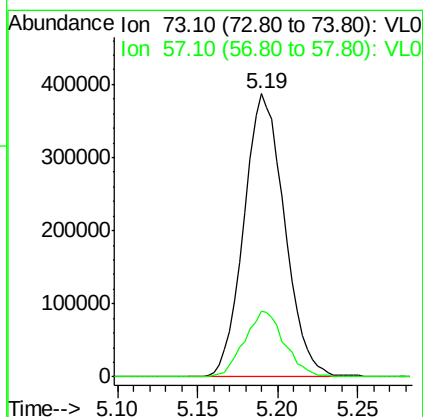
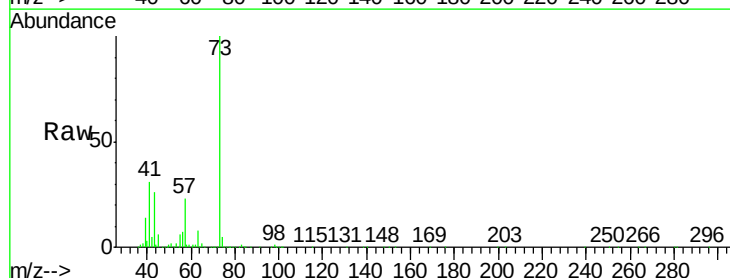
RT: 5.19 min Scan# 1276

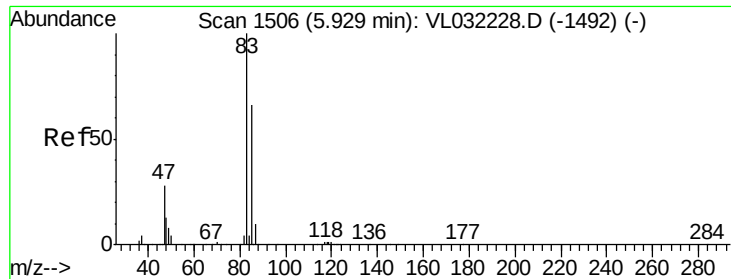
Delta R.T. 0.00 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Tgt Ion:	73	Resp:	670835
Ion Ratio	Lower	Upper	
73	100		
57	23.3	18.6	27.8





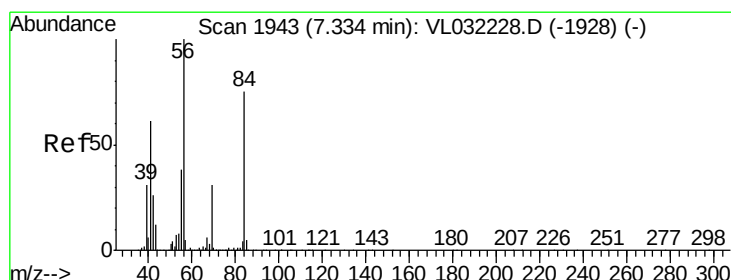
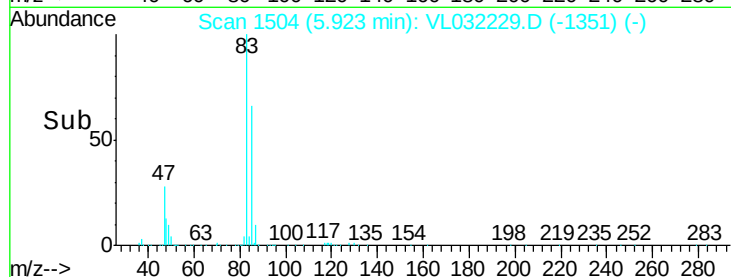
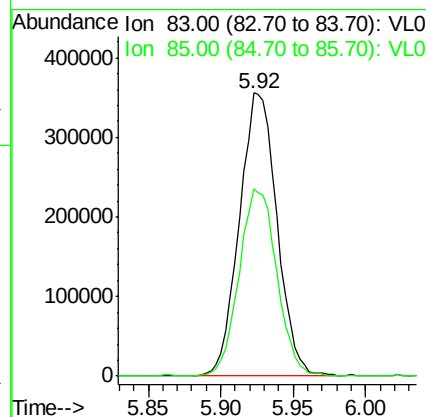
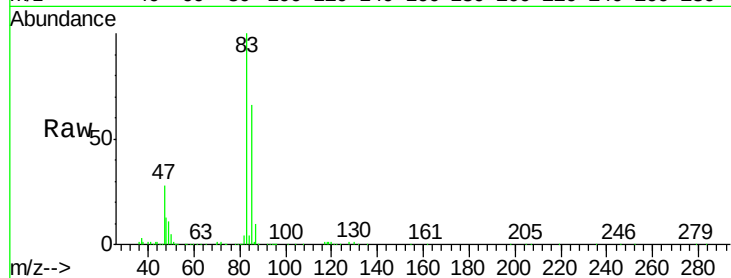
#29
Chloroform
Concen: 2.10 ppbv
RT: 5.92 min Scan# 1504
Delta R.T. -0.01 min
Lab File: VL032229.D
Acq: 12 Jul 2018 18:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	83	Resp	643333
Ion Ratio	100	Lower	Upper
83	100		
85	66.2	52.7	79.1

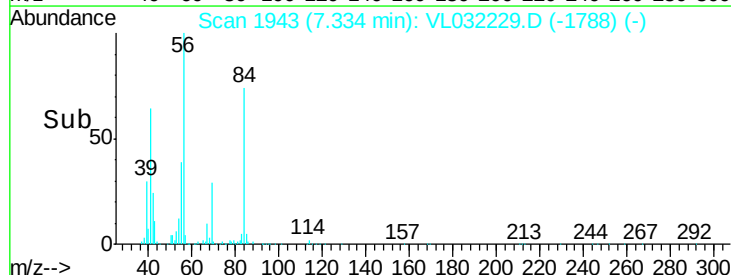
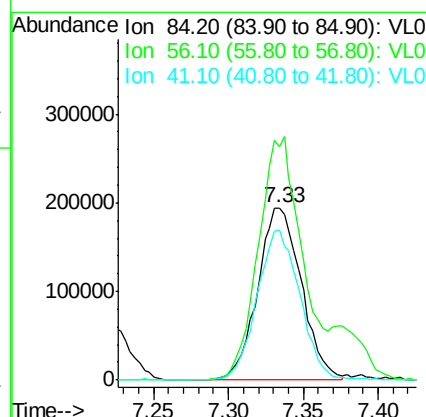
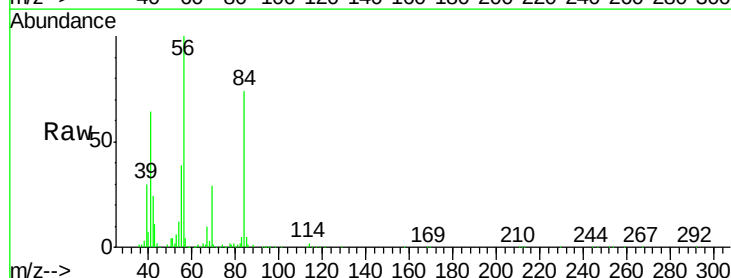
Manual Integrations
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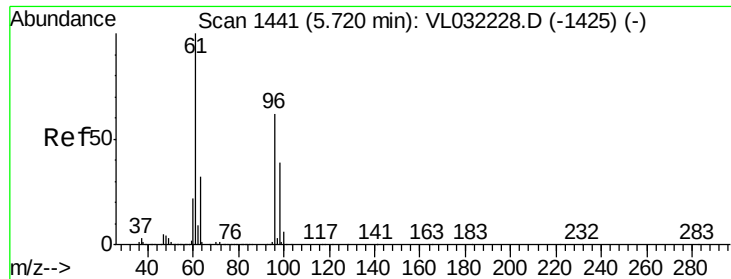
MMDadoda
7/13/2018 5:22:09 PM



#30
Cyclohexane
Concen: 1.96 ppbv
RT: 7.33 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VL032229.D
Acq: 12 Jul 2018 18:44

Tgt Ion	84	Resp	394447
Ion Ratio	100	Lower	Upper
84	100		
56	164.6	112.6	168.8
41	85.9	67.0	100.6





#31

cis-1,2-Dichloroethene

Concen: 1.99 ppbv

RT: 5.72 min Scan# 1441

Delta R.T. -0.00 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Instrument :

MSVOA_L

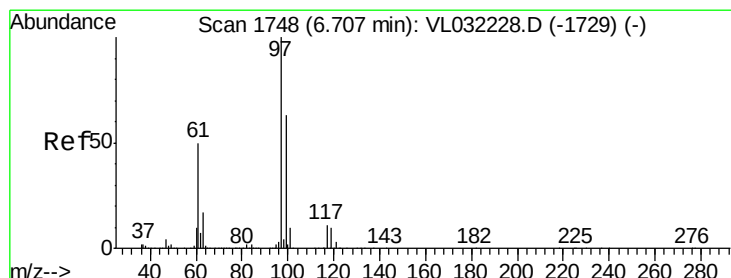
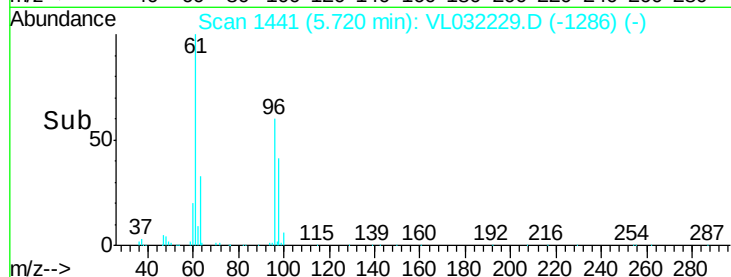
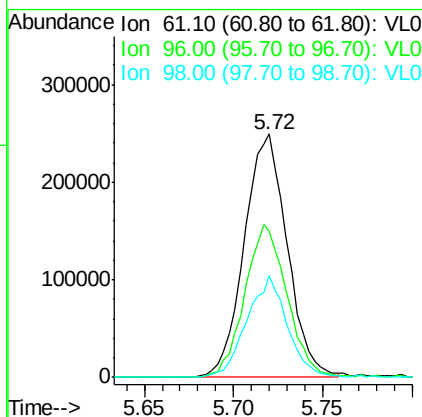
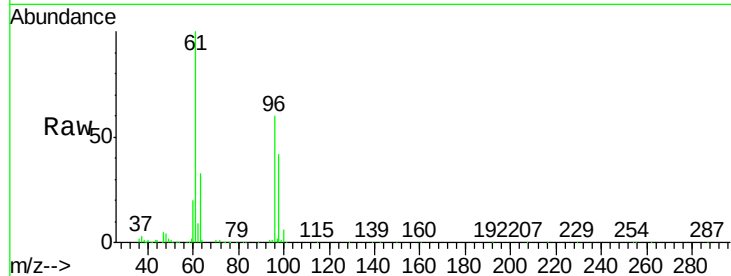
ClientSampleId :

VSTDIC002

Tot Ion	Ratio	Lower	Upper
61	100		
96	59.9	49.8	74.8
98	41.5	31.4	47.2

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#32

1,1,1-Trichloroethane

Concen: 2.13 ppbv

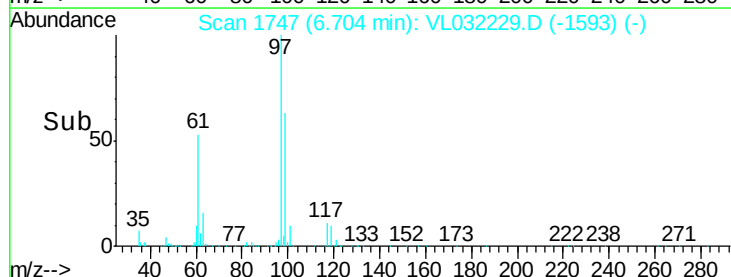
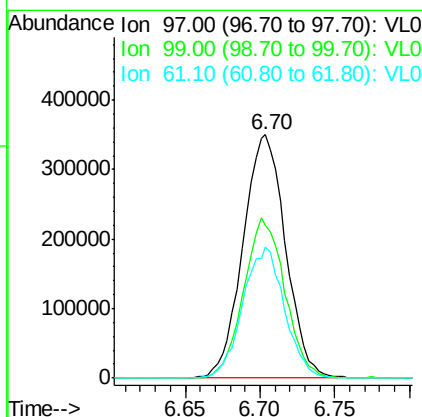
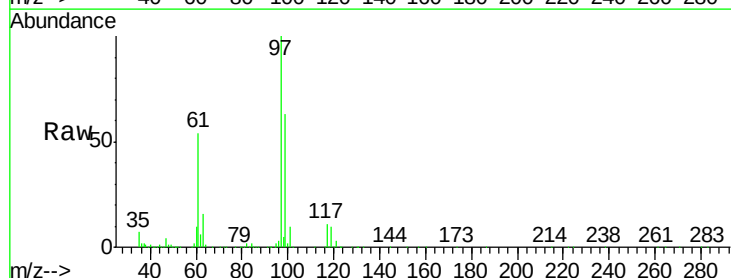
RT: 6.70 min Scan# 1747

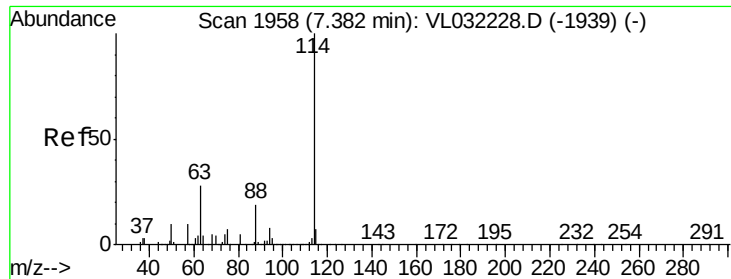
Delta R.T. -0.00 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.2	76.8
61	52.9	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: VL032229.D

Acq: 12 Jul 2018 18:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:114 Resp: 4594976

Ion Ratio Lower Upper

114 100

63 28.1 22.5 33.7

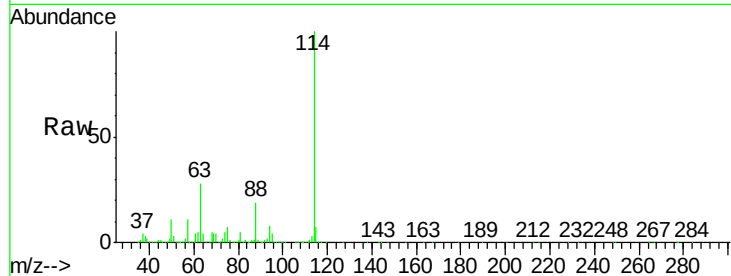
88 19.2 15.4 23.0

Manual Integrations

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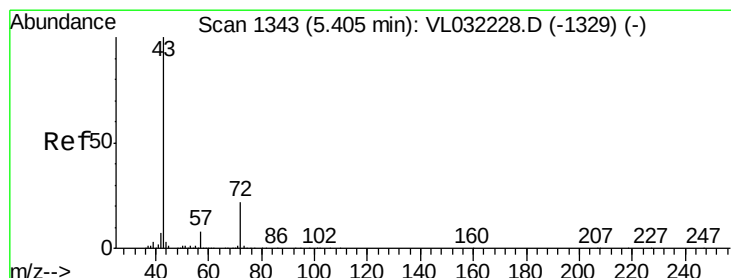
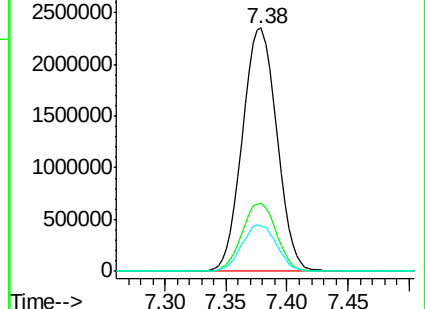
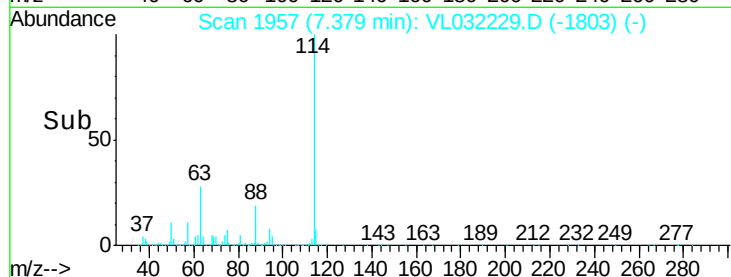
7/13/2018 5:22:09 PM



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 2.19 ppbv

RT: 5.41 min Scan# 1344

Delta R.T. 0.00 min

Lab File: VL032229.D

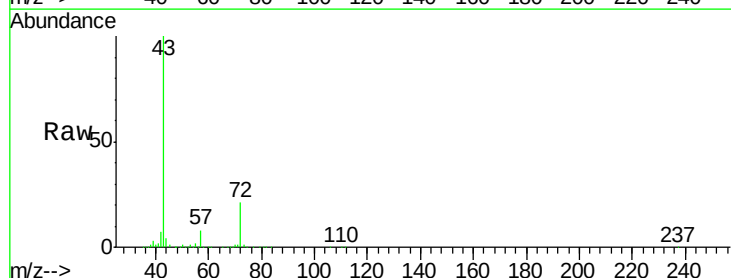
Acq: 12 Jul 2018 18:44

Tgt Ion: 43 Resp: 637781

Ion Ratio Lower Upper

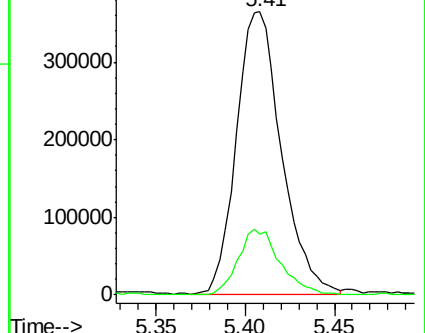
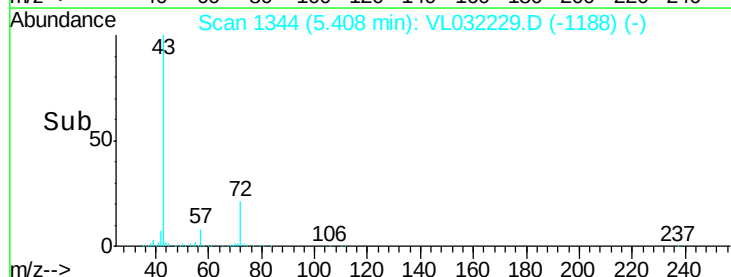
43 100

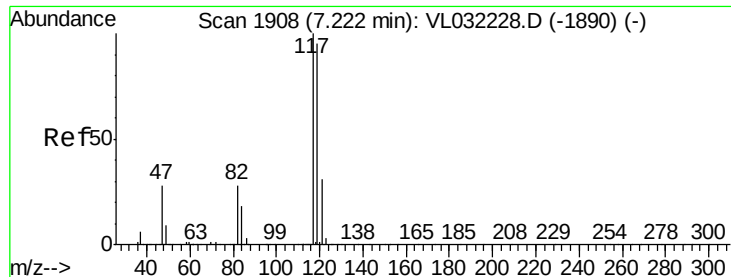
72 22.2 18.1 27.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 2.18 ppbv

RT: 7.22 min Scan# 1908

Delta R.T. -0.00 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Instrument :

MSVOA_L

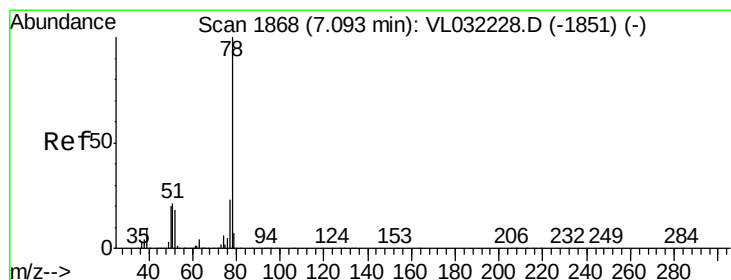
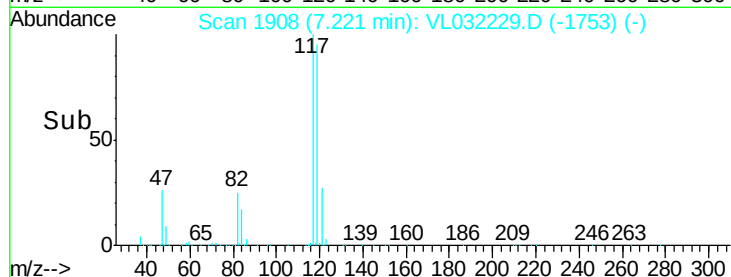
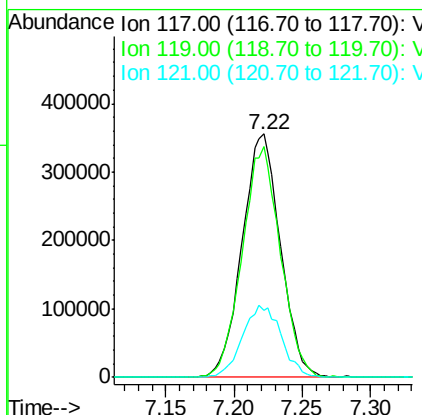
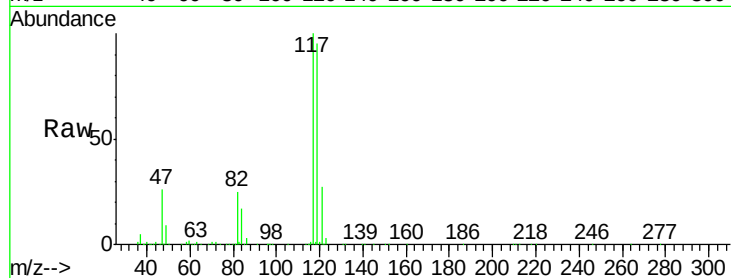
ClientSampleId :

VSTDIC002

Tot Ion:	117	Resp:	693161
Ion Ratio	Lower	Upper	
117	100		
119	94.6	75.7	113.5
121	27.3	24.6	37.0

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#36

Benzene

Concen: 2.21 ppbv

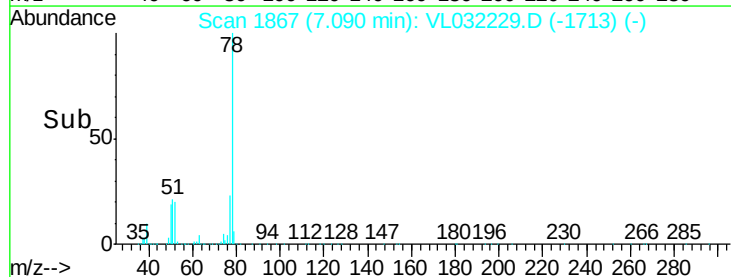
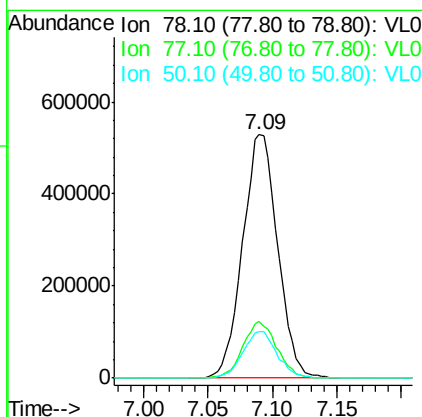
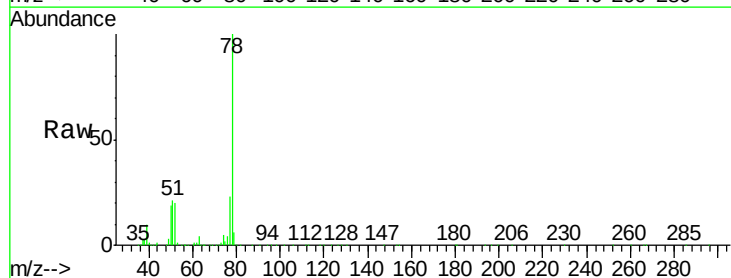
RT: 7.09 min Scan# 1867

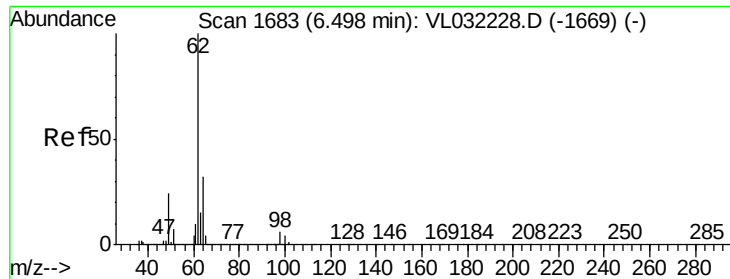
Delta R.T. -0.00 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Tgt Ion:	78	Resp:	1000724
Ion Ratio	Lower	Upper	
78	100		
77	23.2	18.0	27.0
50	19.2	15.8	23.8





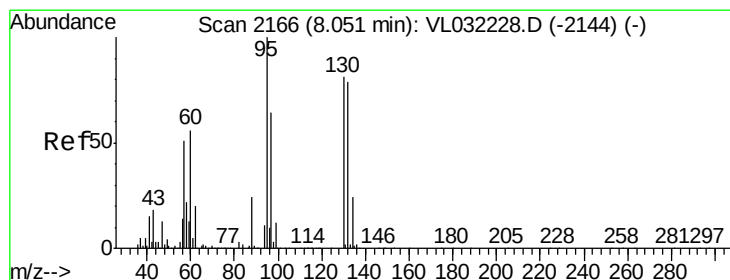
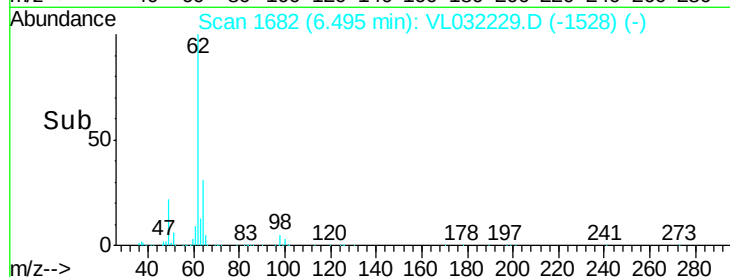
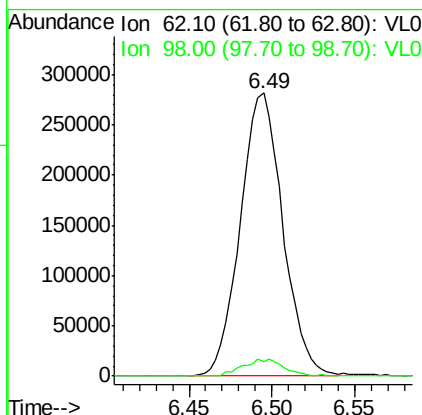
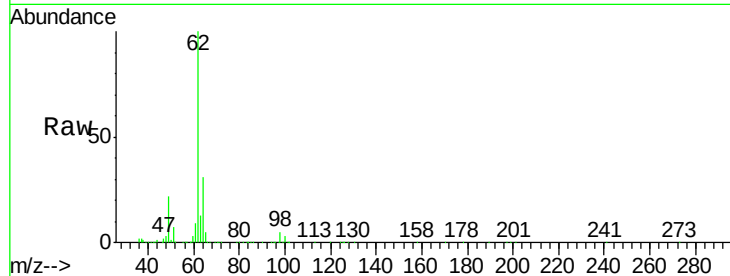
#37
 1,2-Dichloroethane
 Concen: 2.22 ppbv
 RT: 6.49 min Scan# 1682
 Delta R.T. -0.00 min
 Lab File: VL032229.D
 Acq: 12 Jul 2018 18:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.1	4.6	7.0

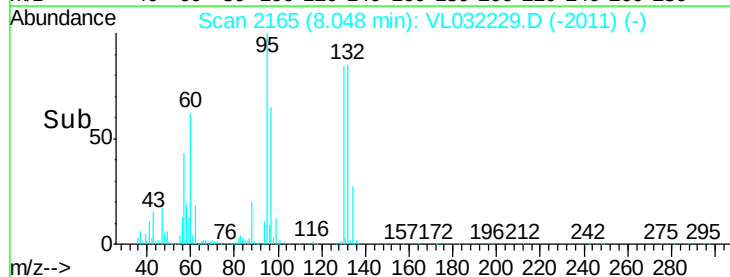
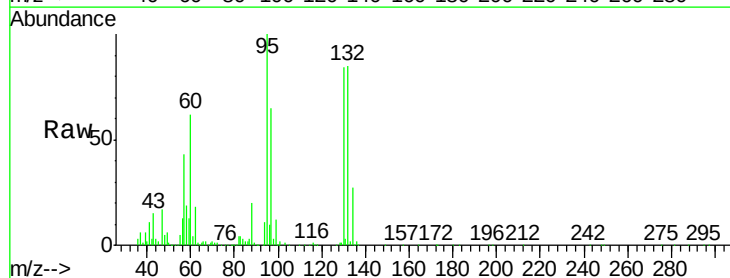
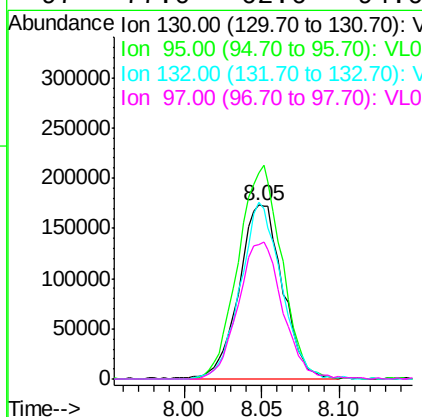
Manual Integrations
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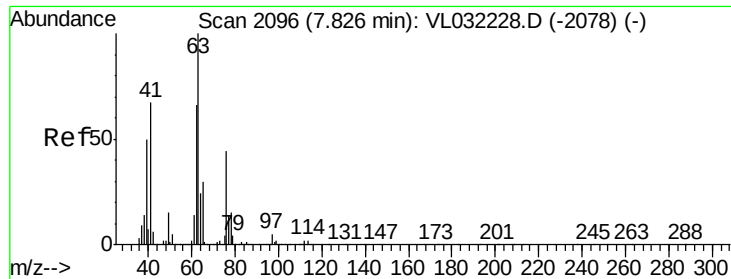
MMDadoda
 7/13/2018 5:22:09 PM



#38
 Trichloroethene
 Concen: 1.98 ppbv
 RT: 8.05 min Scan# 2165
 Delta R.T. -0.00 min
 Lab File: VL032229.D
 Acq: 12 Jul 2018 18:44

Tgt Ion	Ratio	Lower	Upper
130	100		
95	118.7	98.3	147.5
132	101.5	78.1	117.1
97	77.0	62.6	94.0





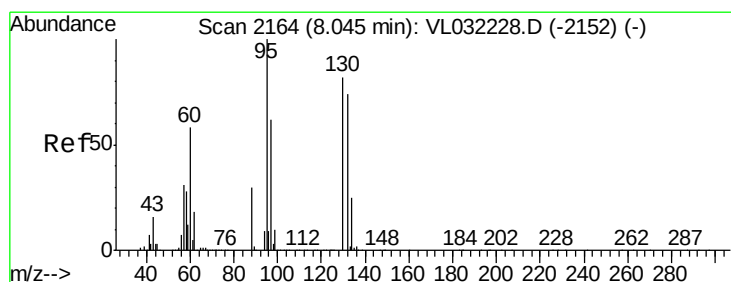
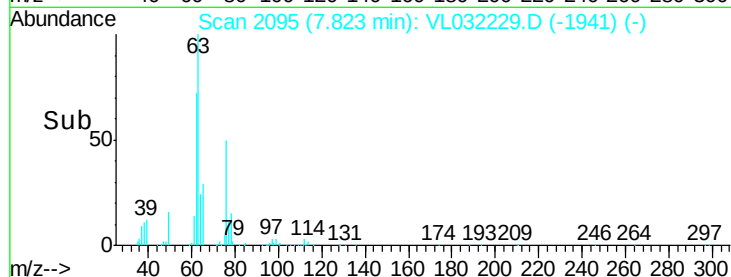
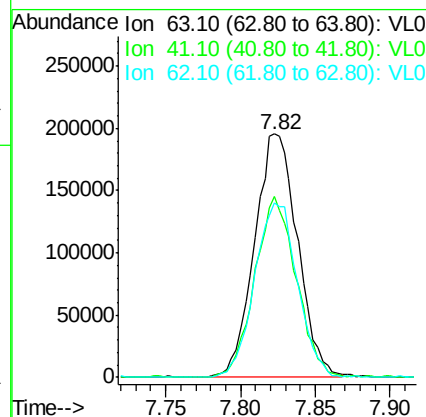
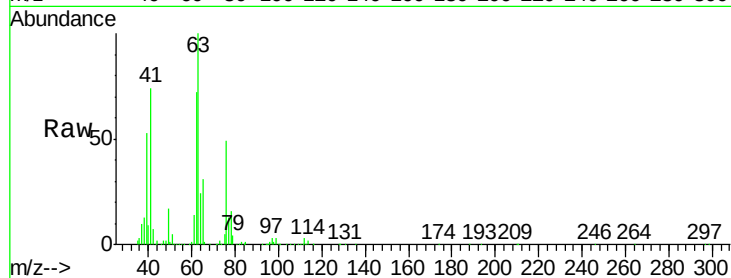
#39
 1,2-Dichloropropane
 Concen: 2.20 ppbv
 RT: 7.82 min Scan# 2095
 Delta R.T. -0.00 min
 Lab File: VL032229.D
 Acq: 12 Jul 2018 18:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
63	100		
41	74.2	53.8	80.6
62	71.8	53.1	79.7

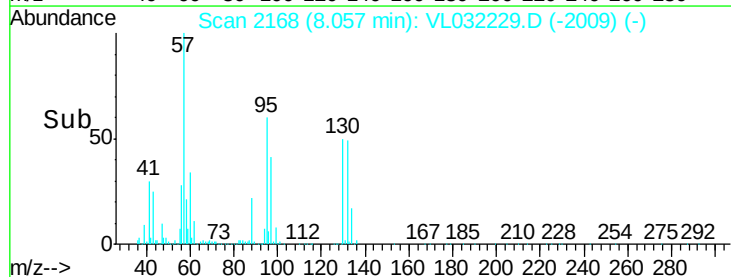
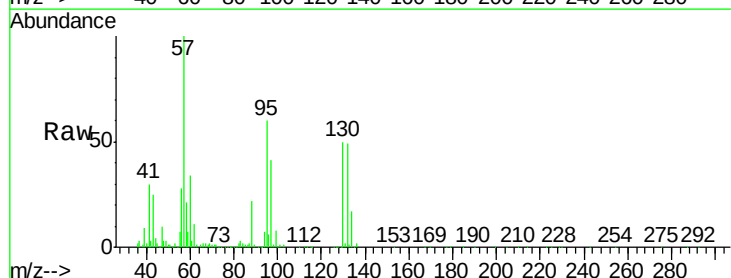
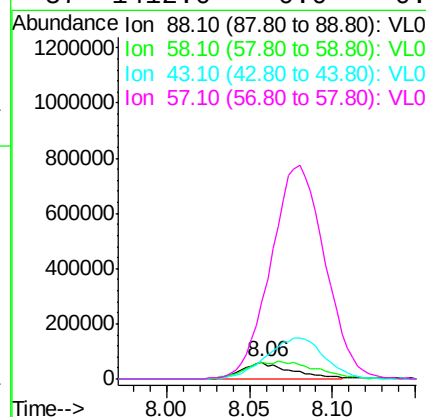
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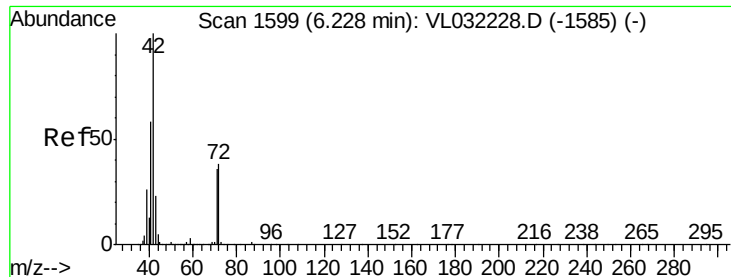
MMDadoda
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#40
 1,4-Dioxane
 Concen: 1.90 ppbv
 RT: 8.06 min Scan# 2168
 Delta R.T. 0.01 min
 Lab File: VL032229.D
 Acq: 12 Jul 2018 18:44

Tgt Ion	Ratio	Lower	Upper
88	100		
58	153.6	117.4	176.2
43	293.8	0.0	0.0#
57	1412.0	0.0	0.0#





#41

Tetrahydrofuran

Concen: 2.01 ppbv

RT: 6.24 min Scan# 1602

Delta R.T. 0.01 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Instrument :

MSVOA_L

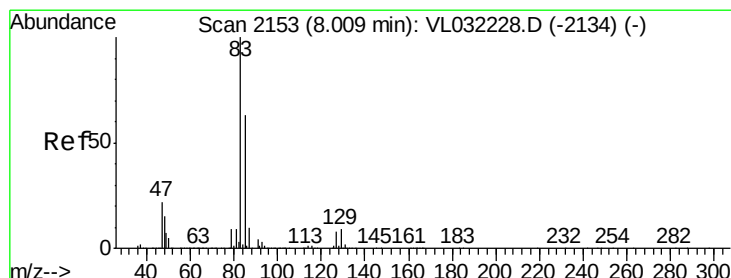
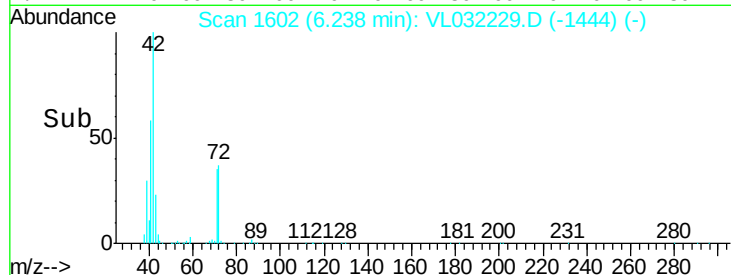
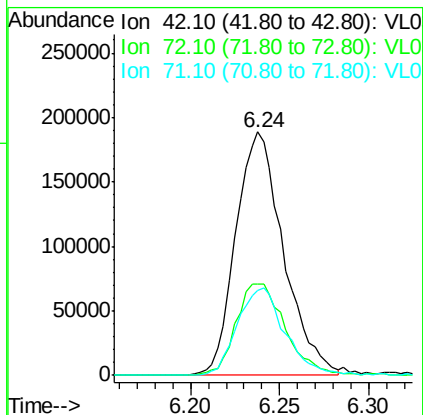
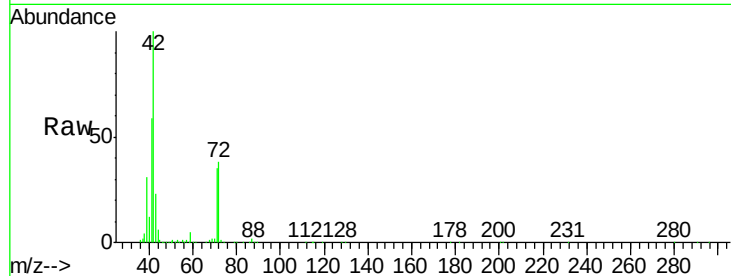
ClientSampleId :

VSTDIC002

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.2	30.6	45.8
71	36.3	29.7	44.5

Manual Integrations
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#42

Bromodichloromethane

Concen: 2.25 ppbv

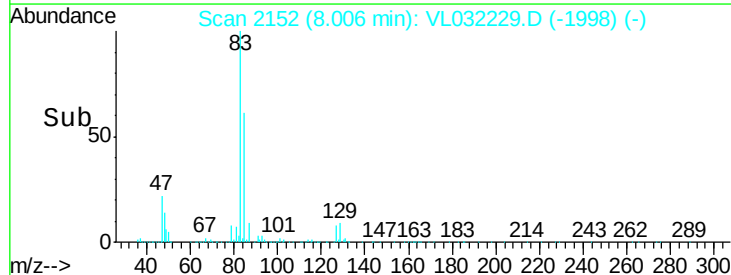
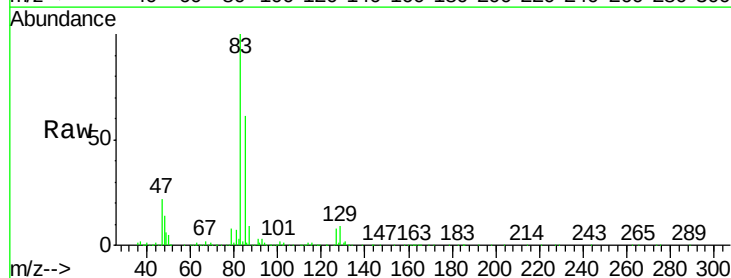
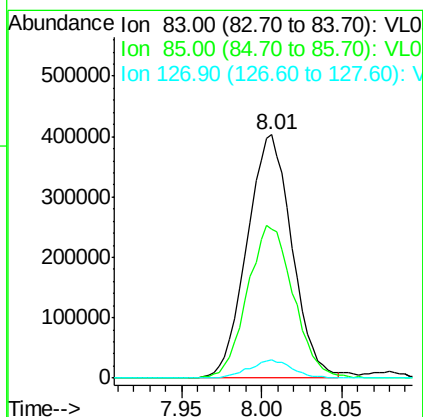
RT: 8.01 min Scan# 2152

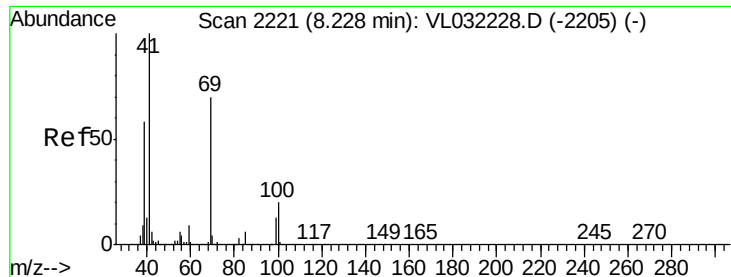
Delta R.T. -0.00 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.0	50.6	76.0
127	7.6	6.1	9.1





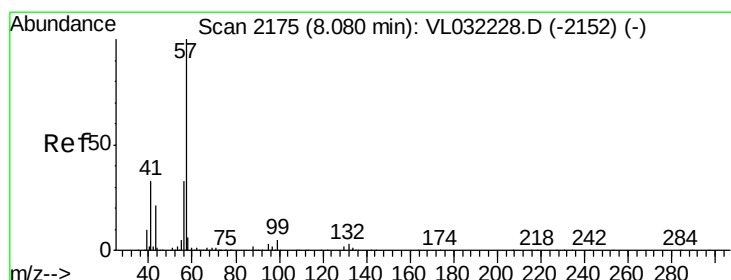
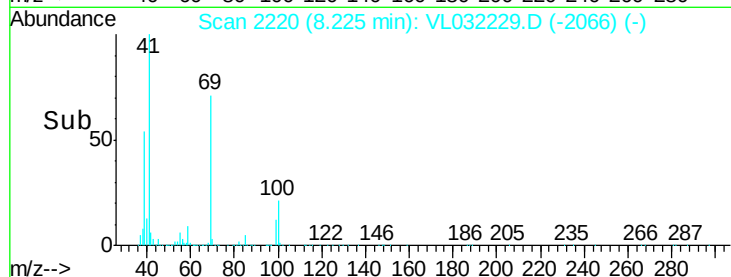
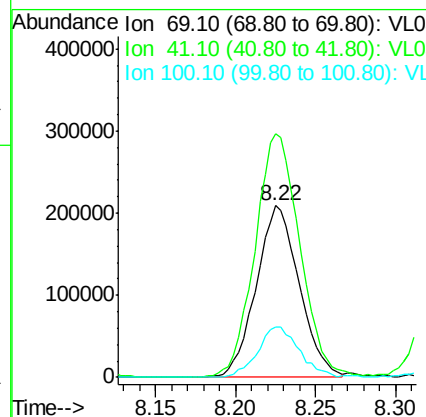
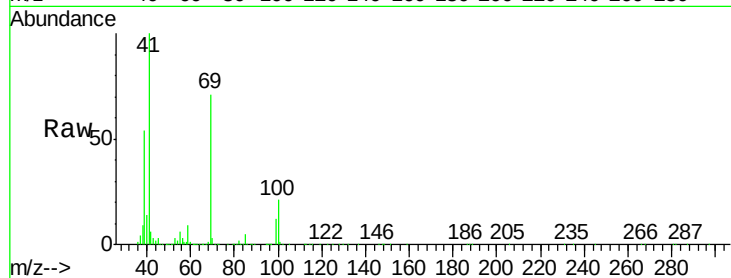
#43
Methyl Methacrylate
Concen: 2.12 ppbv
RT: 8.22 min Scan# 2220
Delta R.T. -0.00 min
Lab File: VL032229.D
Acq: 12 Jul 2018 18:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
69	100		
41	147.5	116.3	174.5
100	28.8	23.8	35.8

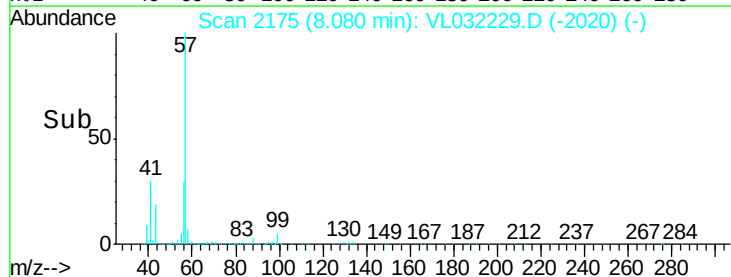
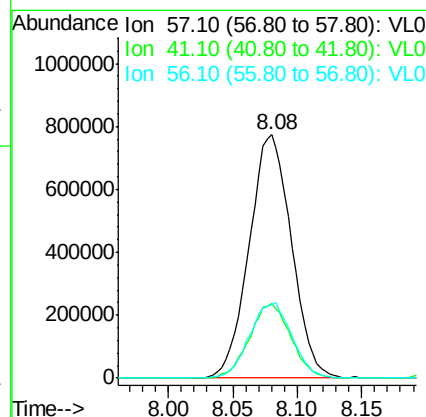
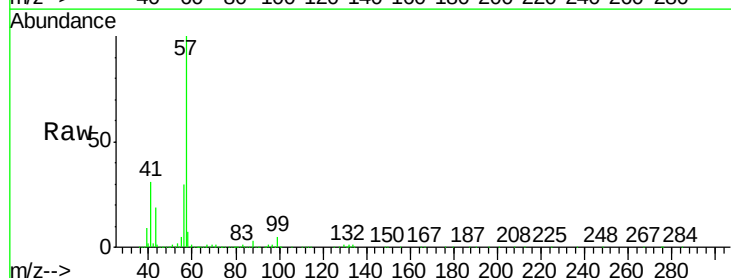
Manual Integrations
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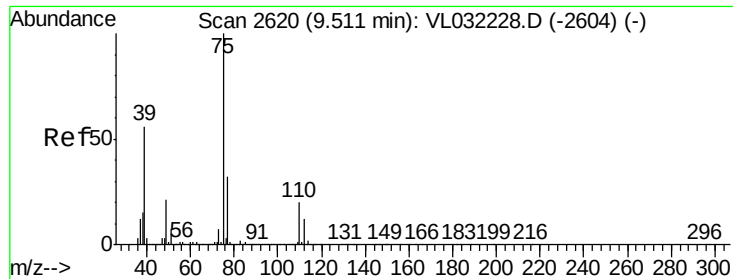
MMDadoda
7/13/2018 5:22:09 PM



#44
2,2,4-Trimethylpentane
Concen: 2.28 ppbv
RT: 8.08 min Scan# 2175
Delta R.T. -0.00 min
Lab File: VL032229.D
Acq: 12 Jul 2018 18:44

Tgt Ion	Ratio	Lower	Upper
57	100		
41	30.3	24.7	37.1
56	31.2	25.4	38.0





#45

t-1,3-Dichloropropene

Concen: 1.88 ppbv

RT: 9.51 min Scan# 2619

Delta R.T. -0.00 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 75 Resp: 429340

Ion Ratio Lower Upper

75 100

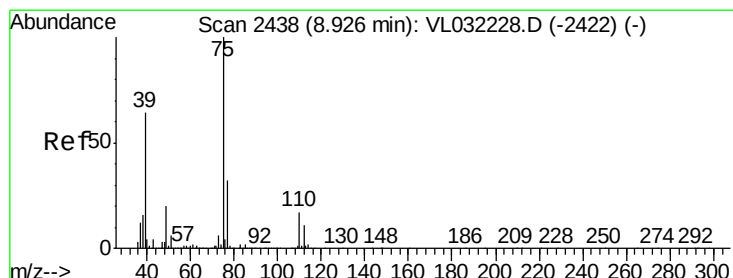
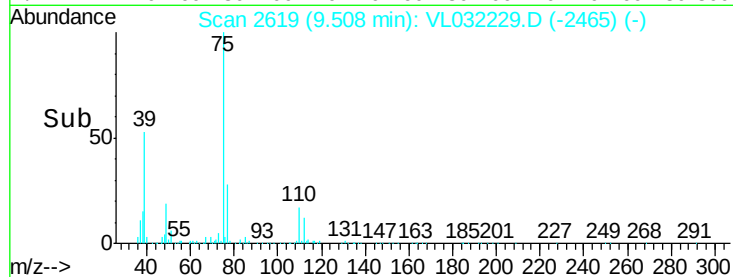
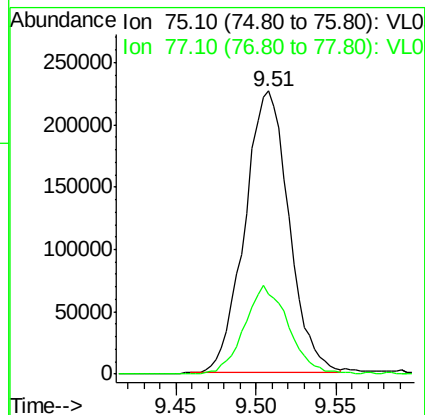
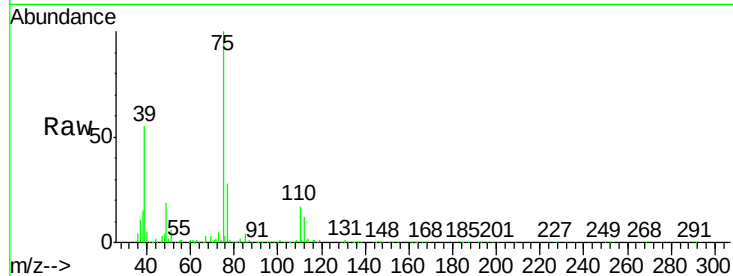
77 29.6 25.5 38.3

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#46

cis-1,3-Dichloropropene

Concen: 2.13 ppbv

RT: 8.93 min Scan# 2438

Delta R.T. -0.00 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

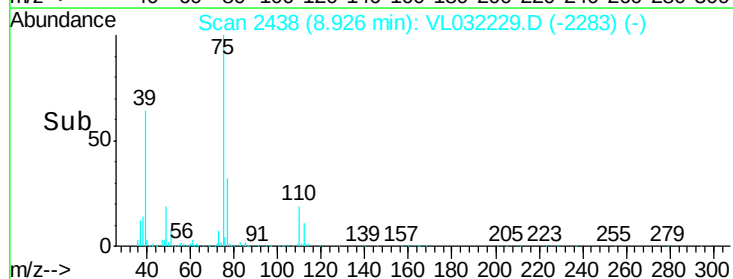
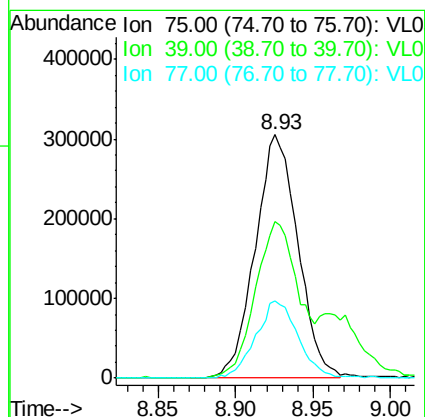
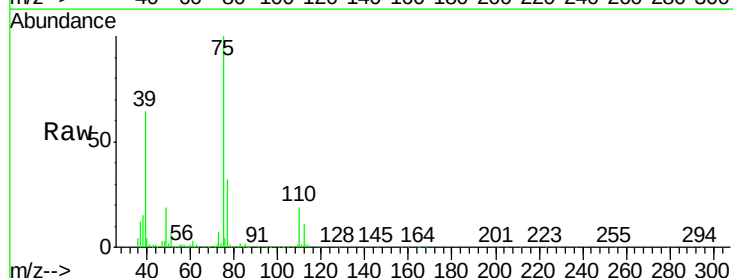
Tgt Ion: 75 Resp: 586102

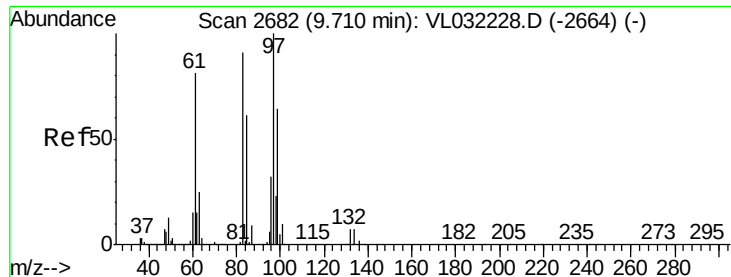
Ion Ratio Lower Upper

75 100

39 64.1 50.9 76.3

77 31.7 25.3 37.9





#47

1,1,2-Trichloroethane

Concen: 2.26 ppbv

RT: 9.71 min Scan# 2681

Delta R.T. -0.00 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Instrument :

MSVOA_L

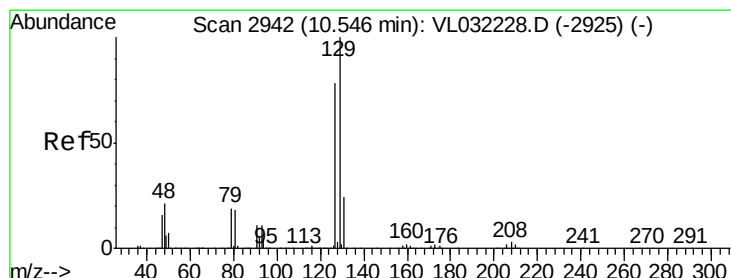
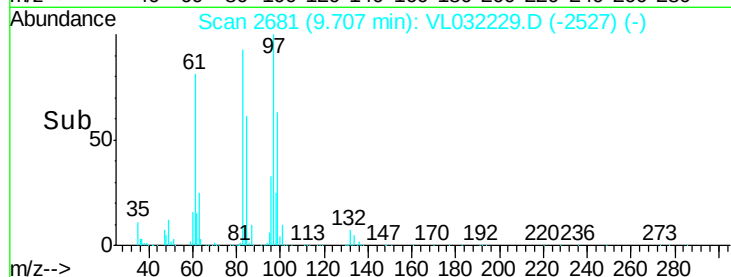
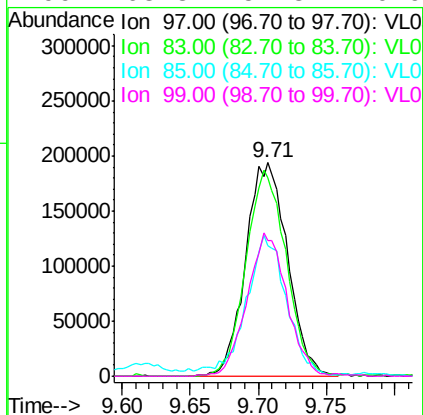
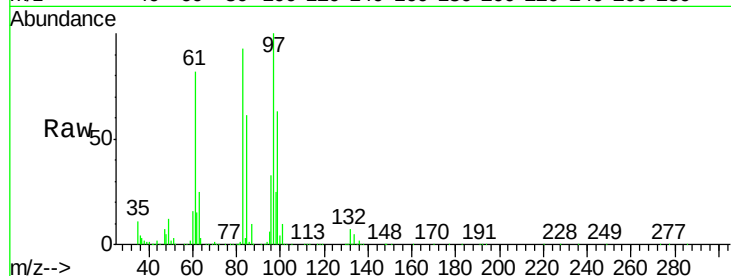
ClientSampleId :

VSTDIC002

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	92.7	72.9	109.3	
85	60.2	49.3	73.9	
99	63.3	51.3	76.9	

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#48

Dibromochloromethane

Concen: 2.22 ppbv

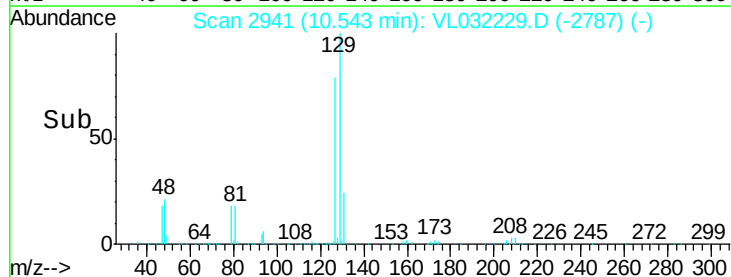
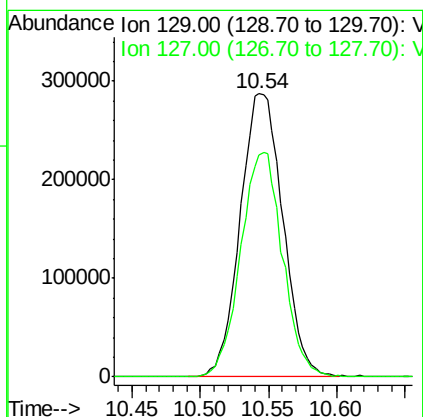
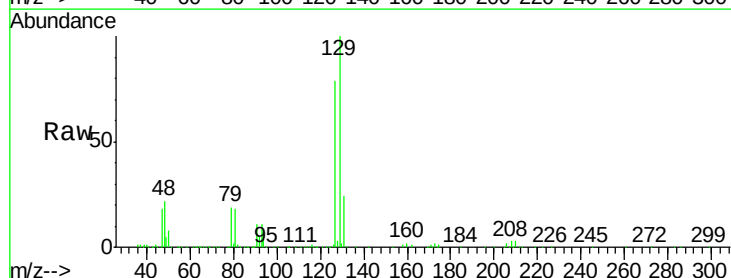
RT: 10.54 min Scan# 2941

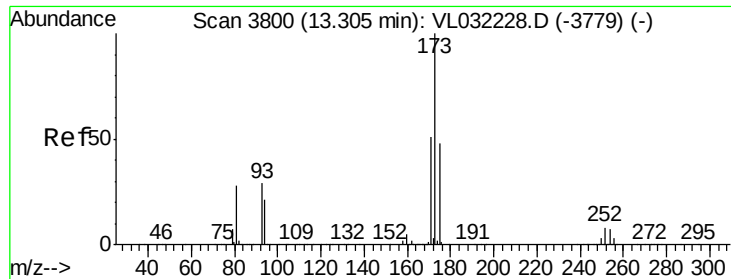
Delta R.T. -0.00 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.2	39.3	117.9	





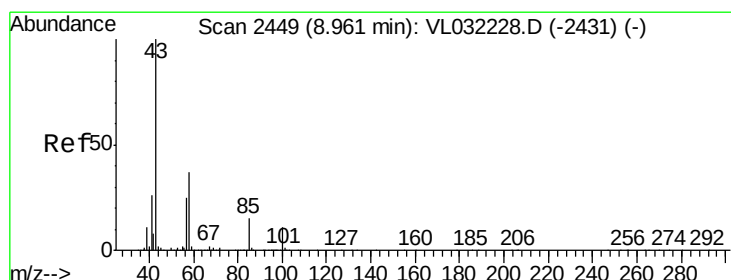
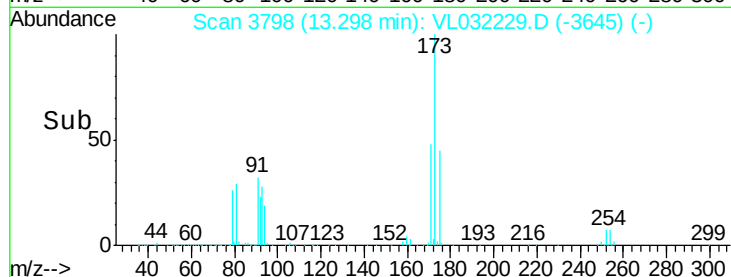
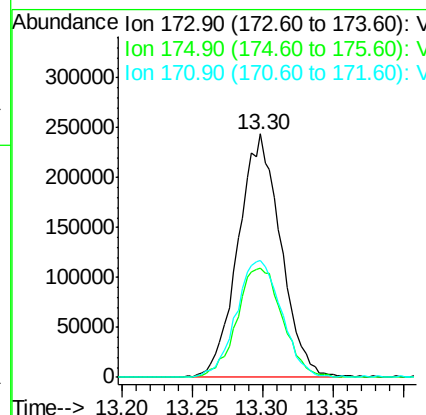
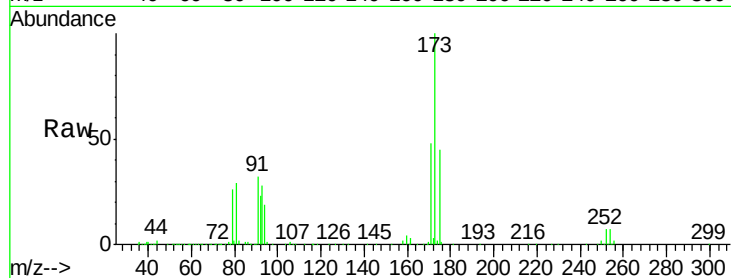
#49
Bromoform
Concen: 2.18 ppbv
RT: 13.30 min Scan# 3798
Delta R.T. -0.01 min
Lab File: VL032229.D
Acq: 12 Jul 2018 18:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.5	39.4	59.2
171	51.9	41.8	62.6

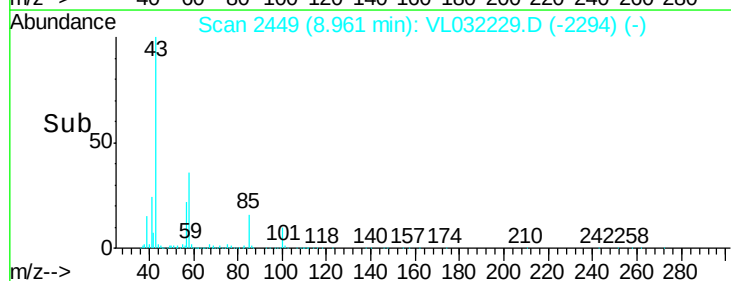
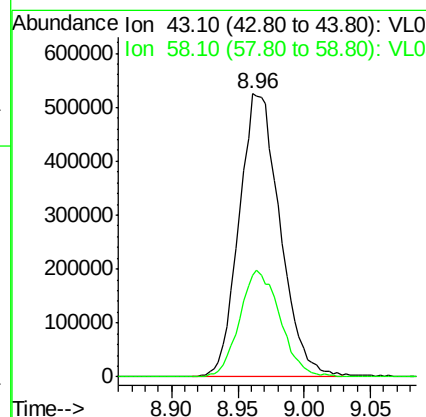
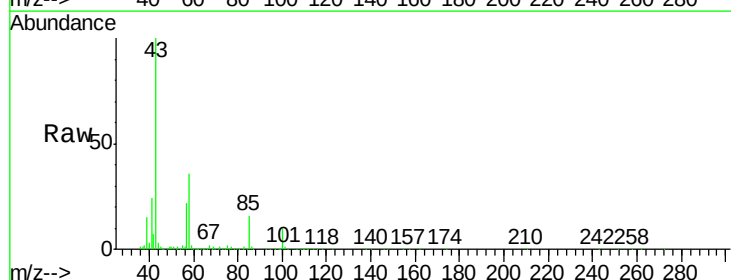
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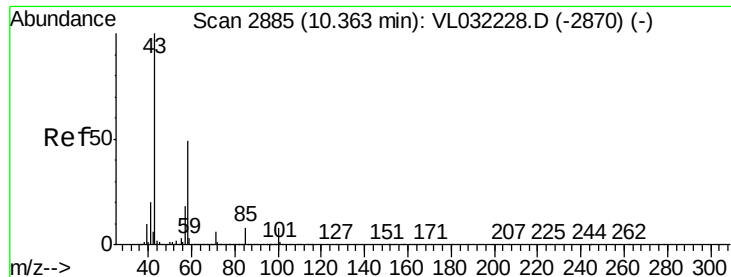
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 2.31 ppbv
RT: 8.96 min Scan# 2449
Delta R.T. -0.00 min
Lab File: VL032229.D
Acq: 12 Jul 2018 18:44

Tgt Ion	Ratio	Lower	Upper
43	100		
58	37.5	29.5	44.3





#51

2-Hexanone

Concen: 2.38 ppbv

RT: 10.37 min Scan# 2887

Delta R.T. 0.01 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Instrument :

MSVOA_L

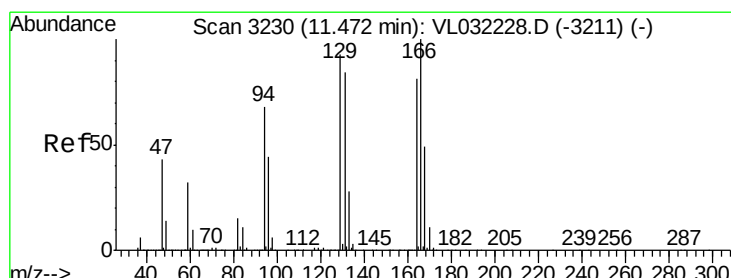
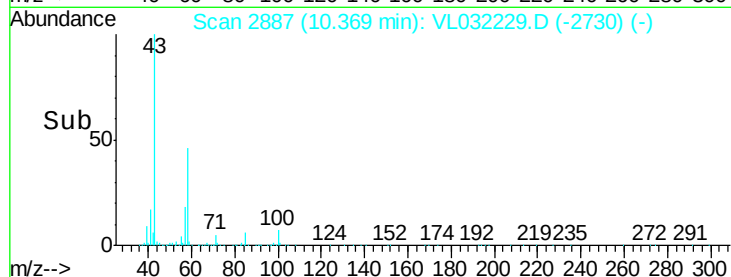
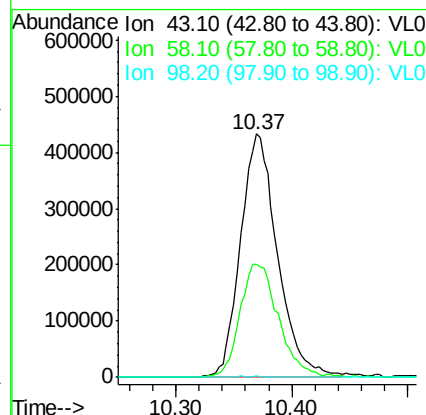
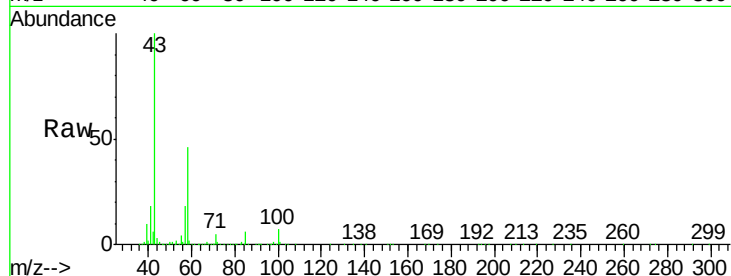
ClientSampleId :

VSTDIC002

Tot Ion:	43	Resp:	957785
Ion Ratio	Lower	Upper	
43	100		
58	49.1	39.9	59.9
98	0.5	0.2	0.4

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#52

Tetrachloroethene

Concen: 2.01 ppbv

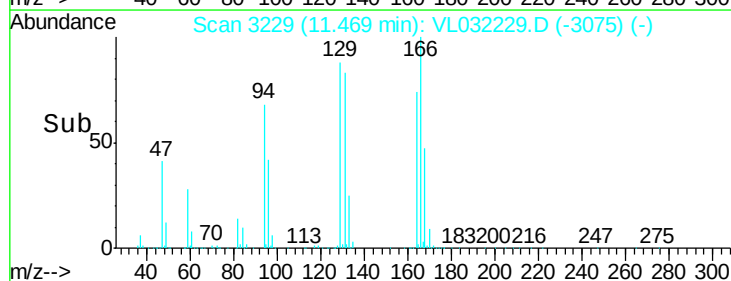
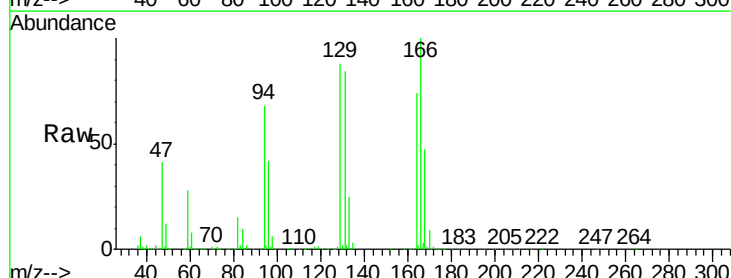
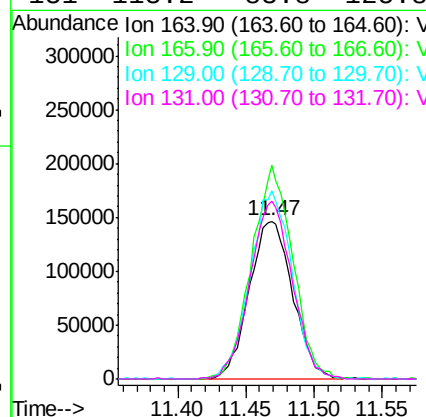
RT: 11.47 min Scan# 3229

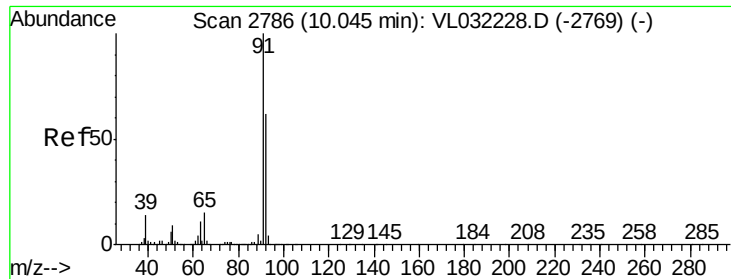
Delta R.T. -0.00 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Tgt Ion:	164	Resp:	323045
Ion Ratio	Lower	Upper	
164	100		
166	135.5	99.3	148.9
129	119.4	92.0	138.0
131	113.2	83.8	125.8





#53

Toluene

Concen: 2.12 ppbv

RT: 10.04 min Scan# 2785

Delta R.T. -0.00 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 1129452

Ion Ratio Lower Upper

91 100

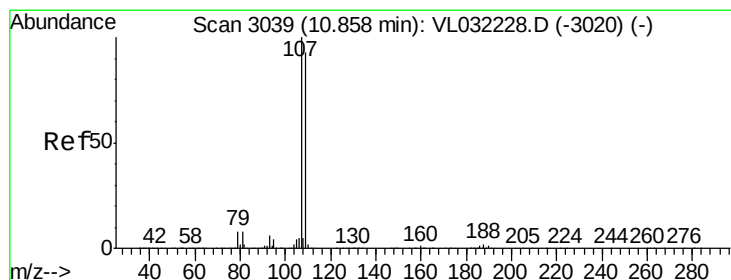
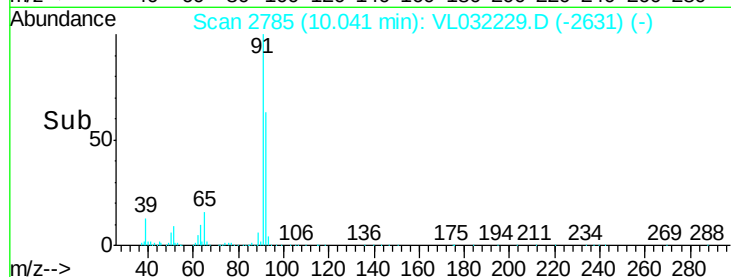
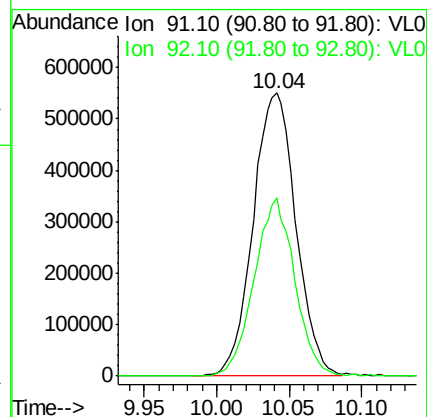
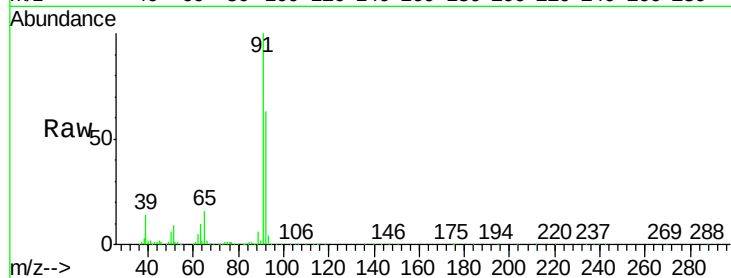
92 59.9 49.0 73.4

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#54

1,2-Dibromoethane

Concen: 2.19 ppbv

RT: 10.85 min Scan# 3038

Delta R.T. -0.00 min

Lab File: VL032229.D

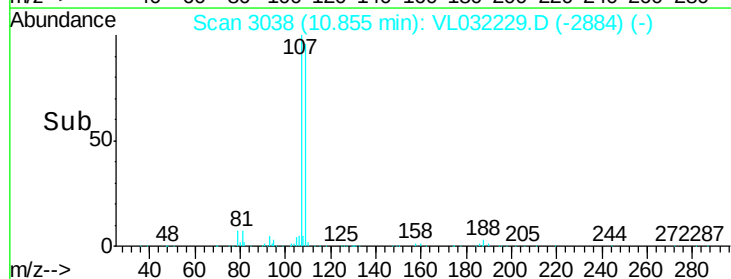
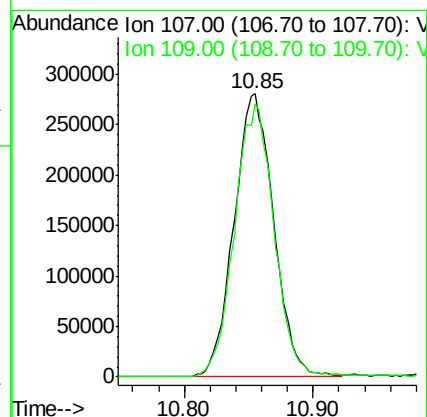
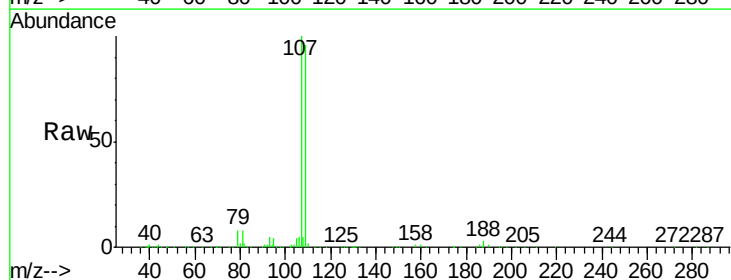
Acq: 12 Jul 2018 18:44

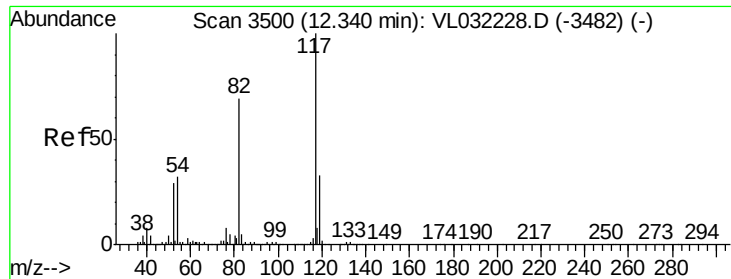
Tgt Ion: 107 Resp: 597522

Ion Ratio Lower Upper

107 100

109 96.1 74.3 111.5





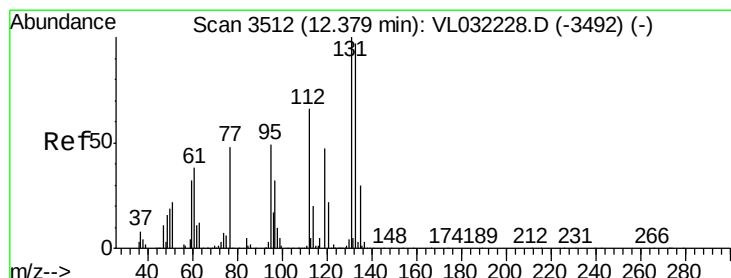
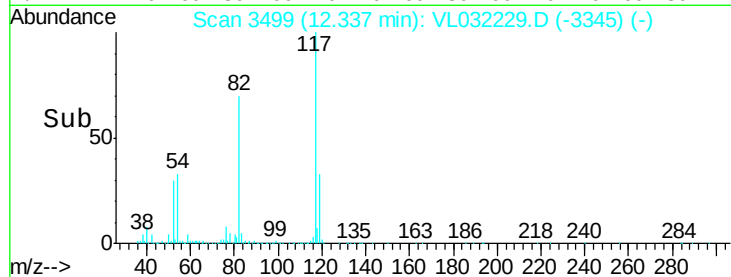
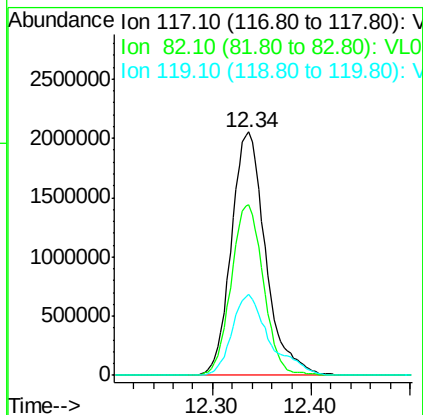
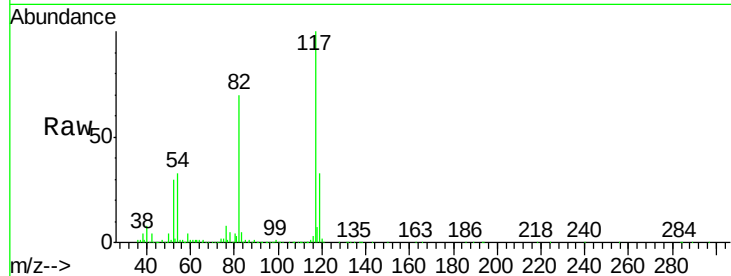
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.34 min Scan# 3499
Delta R.T. -0.00 min
Lab File: VL032229.D
Acq: 12 Jul 2018 18:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
117	100		
82	66.4	53.2	79.8
119	36.3	43.9	65.9#

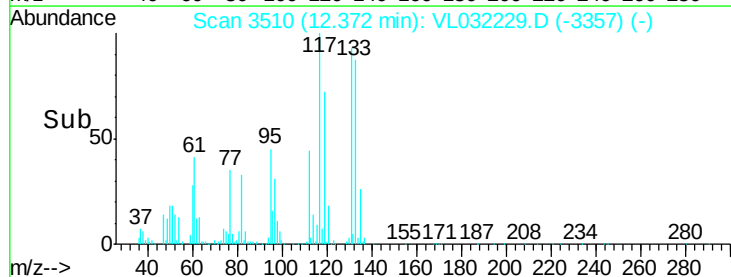
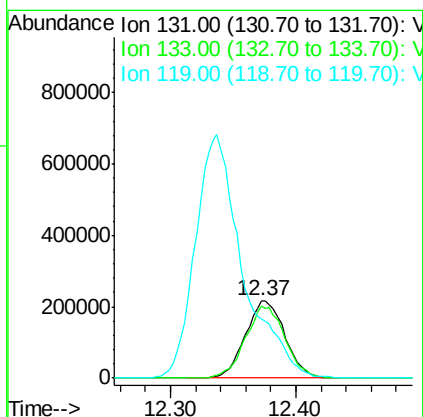
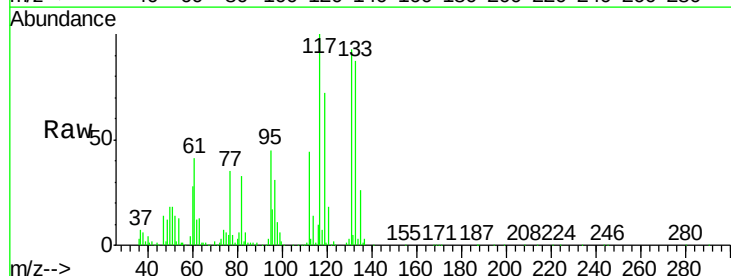
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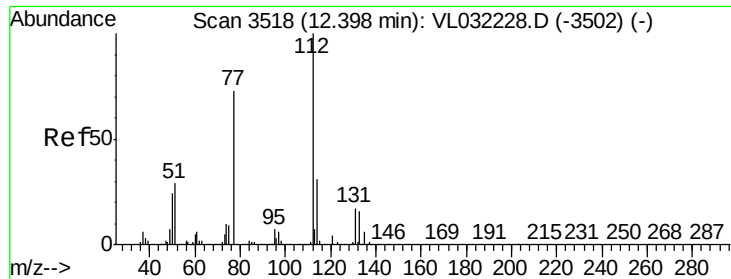
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 2.14 ppbv
RT: 12.37 min Scan# 3510
Delta R.T. -0.01 min
Lab File: VL032229.D
Acq: 12 Jul 2018 18:44

Tgt Ion	Ratio	Lower	Upper
131	100		
133	93.9	75.2	112.8
119	380.3	113.9	170.9#





#57

Chlorobenzene

Concen: 2.11 ppbv

RT: 12.39 min Scan# 3517

Delta R.T. -0.00 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Instrument :

MSVOA_L

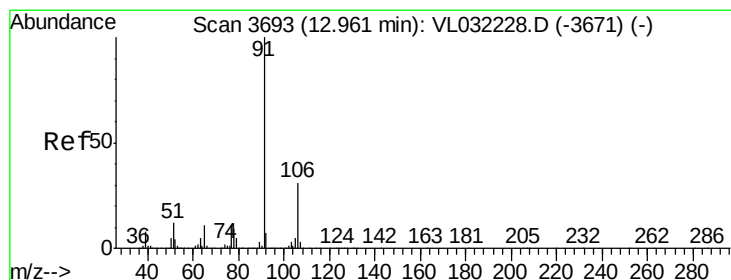
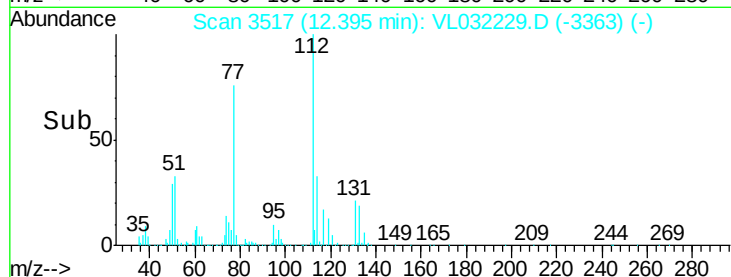
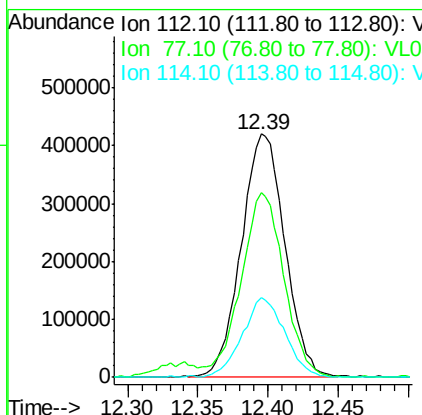
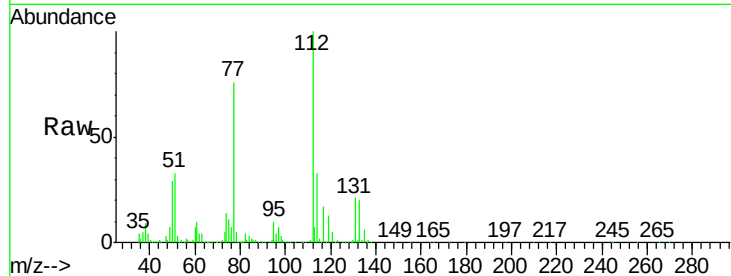
ClientSampleId :

VSTDIC002

Tot Ion:	112	Resp:	903742
Ion Ratio	Lower	Upper	
112	100		
77	75.1	58.8	88.2
114	32.8	27.9	34.1

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#58

Ethyl Benzene

Concen: 2.03 ppbv

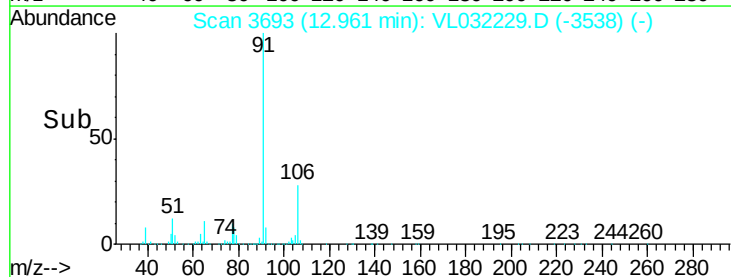
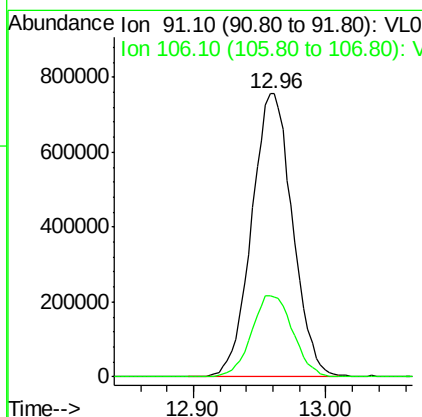
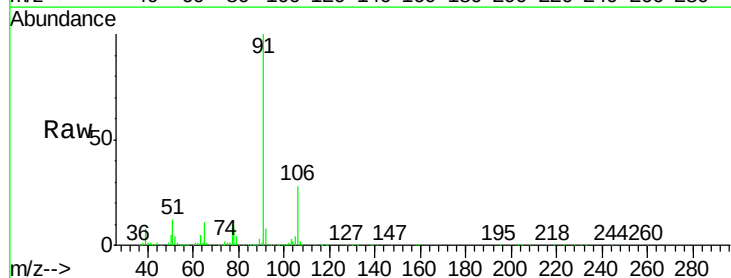
RT: 12.96 min Scan# 3693

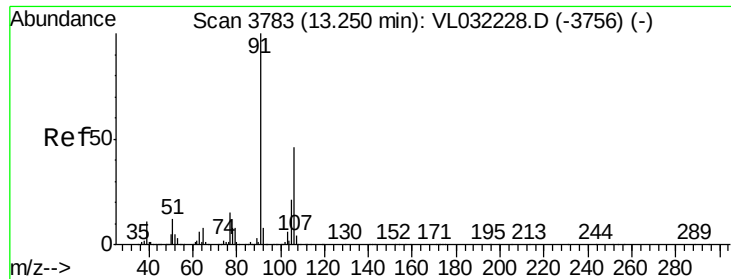
Delta R.T. -0.00 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Tgt Ion:	91	Resp:	1621365
Ion Ratio	Lower	Upper	
91	100		
106	28.0	24.5	36.7





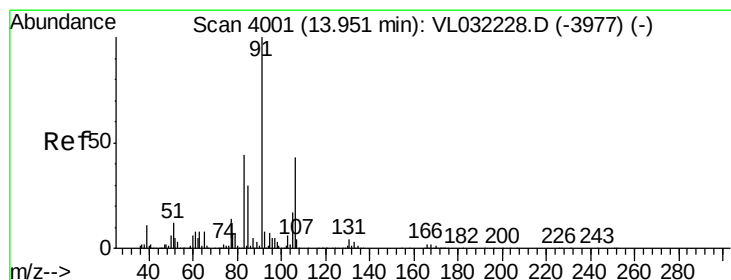
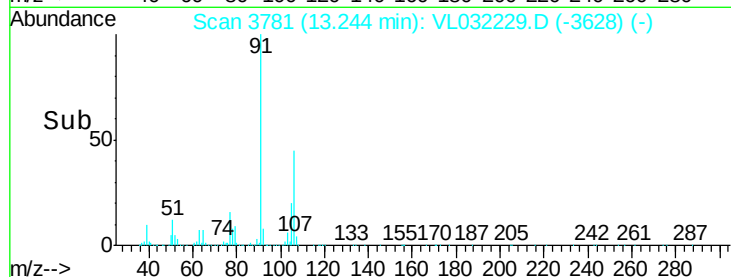
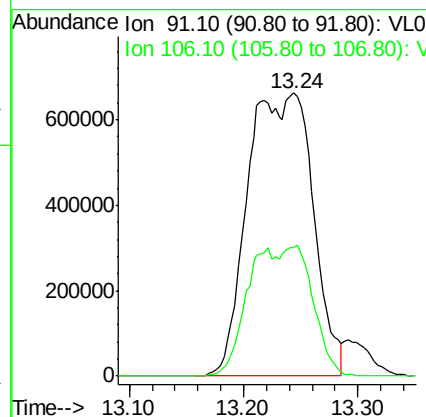
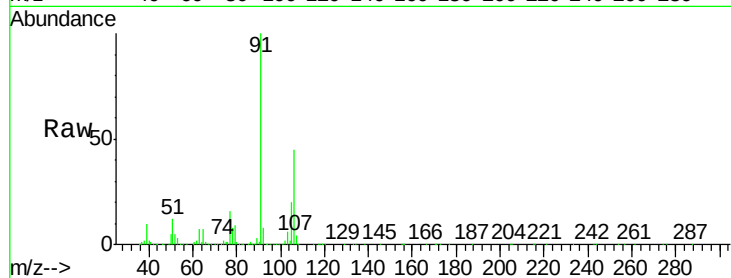
#59
m/p-Xylene
Concen: 4.11 ppbv m
RT: 13.24 min Scan# 3781
Delta R.T. -0.01 min
Lab File: VL032229.D
Acq: 12 Jul 2018 18:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 91 Resp: 2633744
Ion Ratio Lower Upper
91 100
106 45.0 36.4 54.6

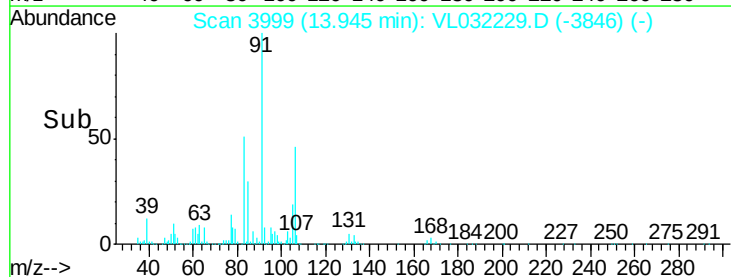
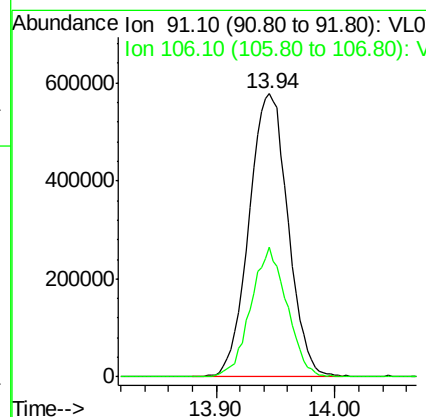
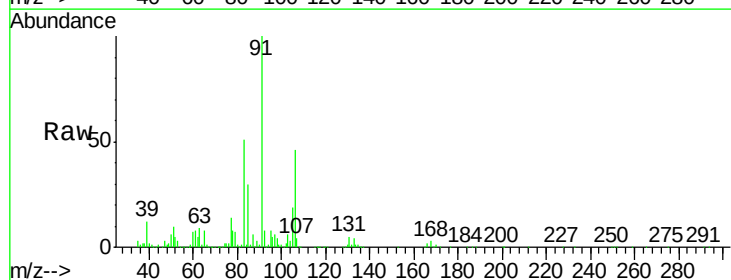
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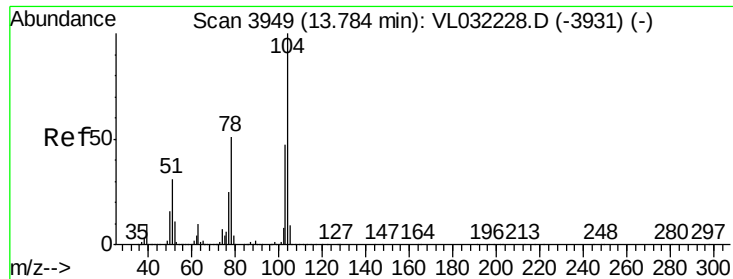
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#60
o-Xylene
Concen: 2.05 ppbv
RT: 13.94 min Scan# 3999
Delta R.T. -0.01 min
Lab File: VL032229.D
Acq: 12 Jul 2018 18:44

Tgt Ion: 91 Resp: 1305664
Ion Ratio Lower Upper
91 100
106 42.6 21.9 65.5





#61

Stvrene

Concen: 1.91 ppbv

RT: 13.78 min Scan# 3948

Delta R.T. -0.00 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Instrument :

MSVOA_L

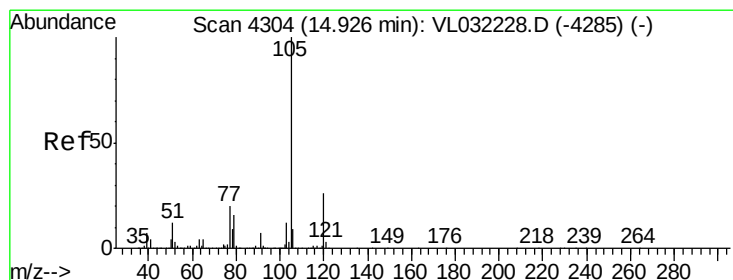
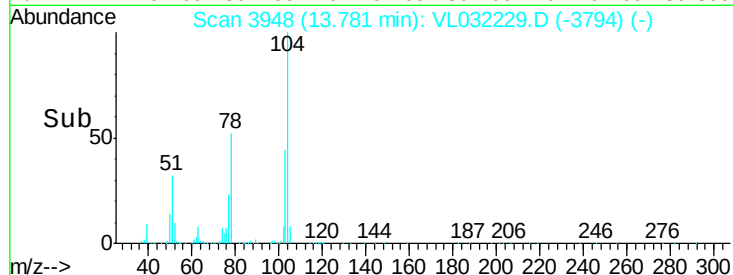
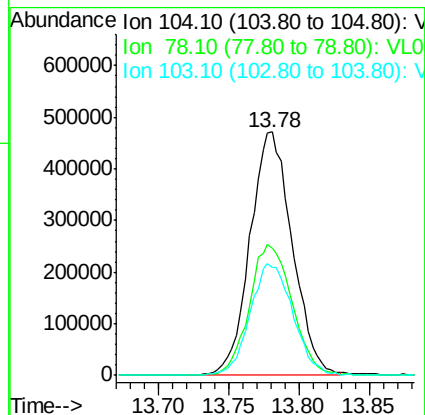
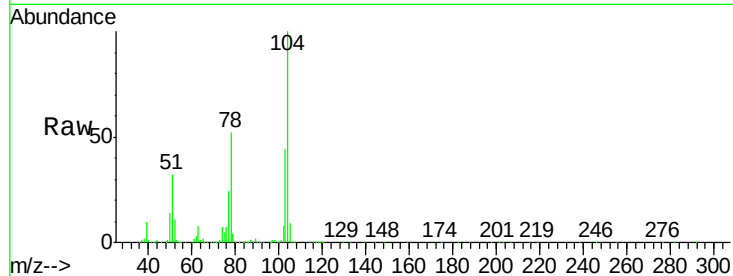
ClientSampleId :

VSTDIC002

Tot Ion:	104	Resp:	983698
Ion Ratio	Lower	Upper	
104	100		
78	55.2	43.4	65.0
103	46.5	38.0	57.0

Manual Integrations
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#62

Isopropylbenzene

Concen: 1.88 ppbv

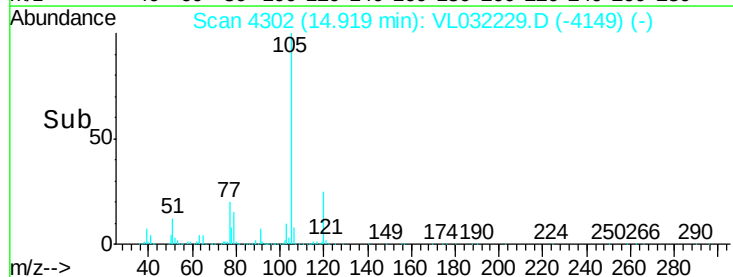
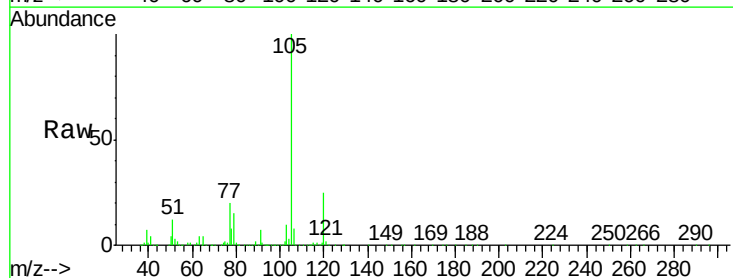
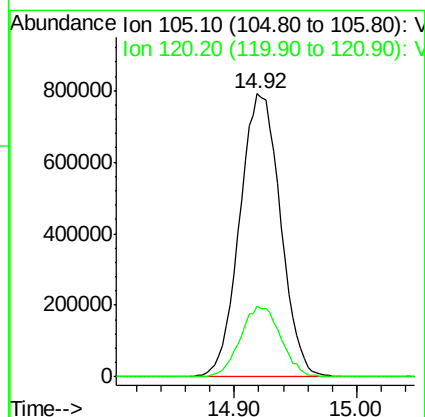
RT: 14.92 min Scan# 4302

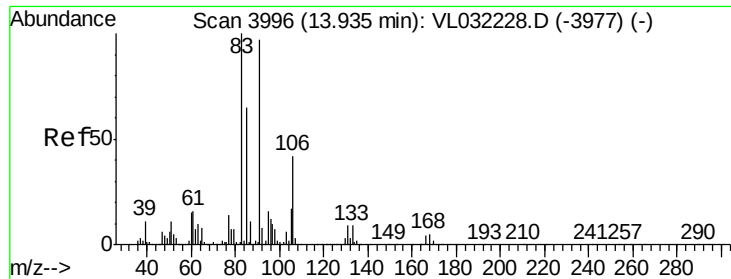
Delta R.T. -0.01 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Tgt Ion:	105	Resp:	1823789
Ion Ratio	Lower	Upper	
105	100		
120	24.7	20.2	30.2





#63

1,1,2,2-Tetrachloroethane

Concen: 2.10 ppbv m

RT: 13.93 min Scan# 3994

Delta R.T. -0.01 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 83 Resp: 1045264

Ion Ratio Lower Upper

83 100

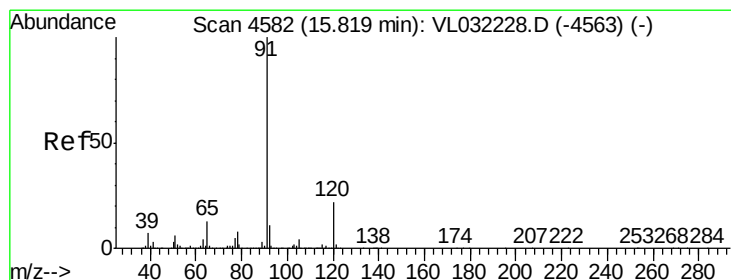
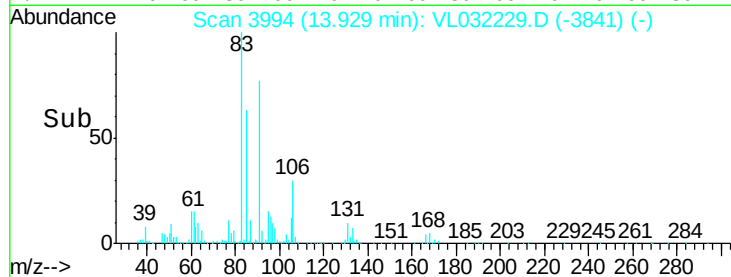
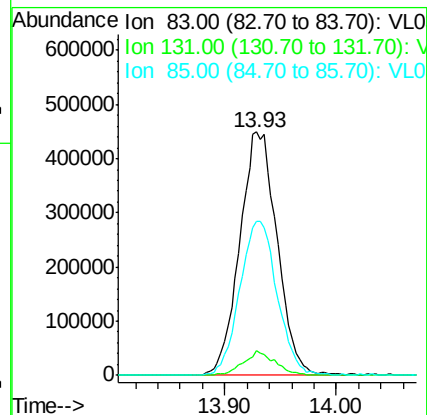
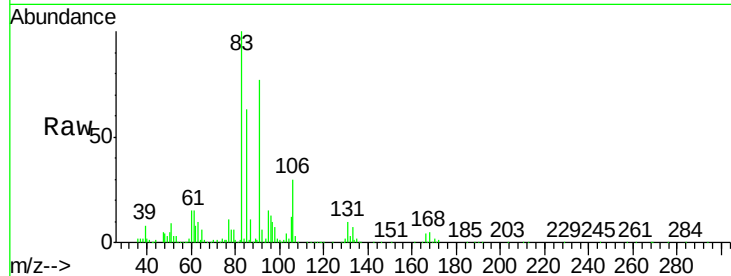
131 8.6 4.3 12.8

85 63.5 32.5 97.5

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#64

n-propylbenzene

Concen: 1.81 ppbv

RT: 15.82 min Scan# 4582

Delta R.T. -0.00 min

Lab File: VL032229.D

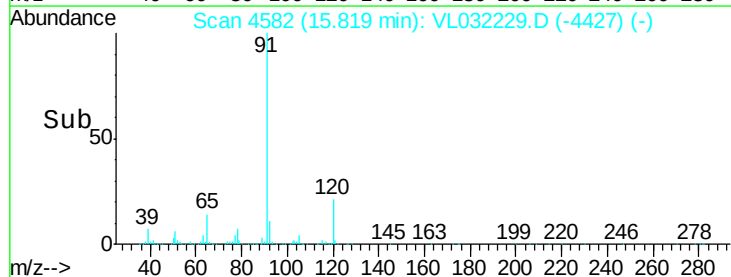
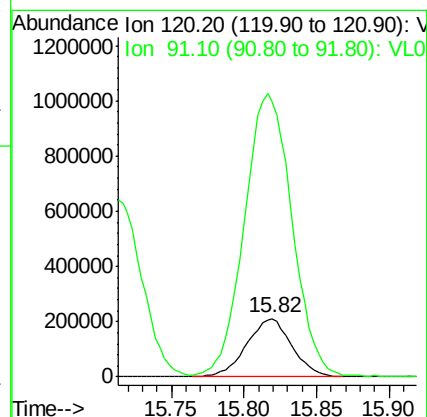
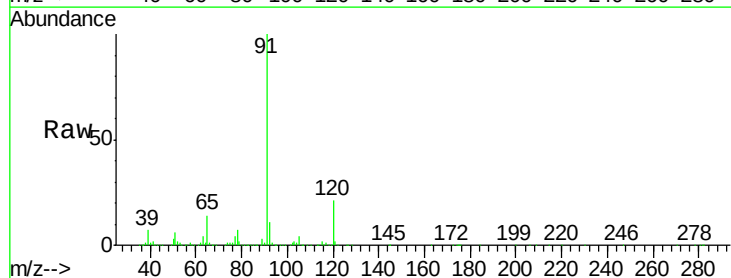
Acq: 12 Jul 2018 18:44

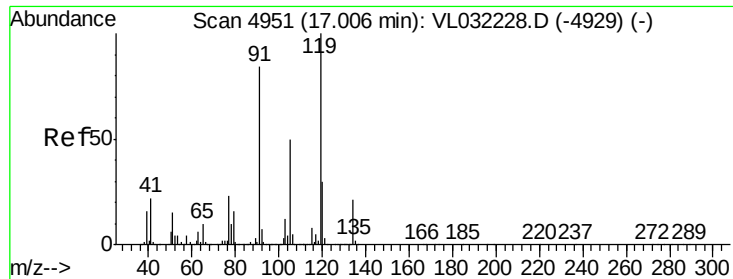
Tgt Ion: 120 Resp: 456754

Ion Ratio Lower Upper

120 100

91 514.8 385.0 577.4





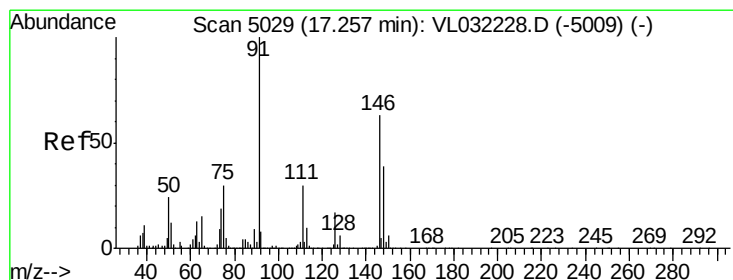
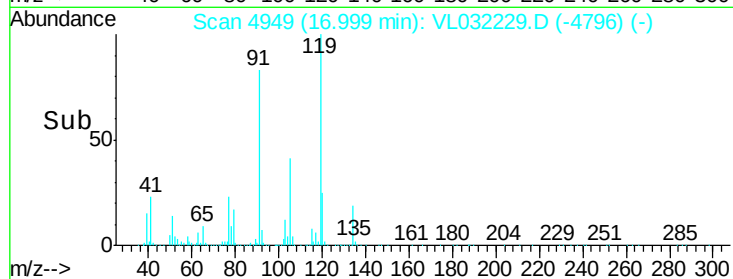
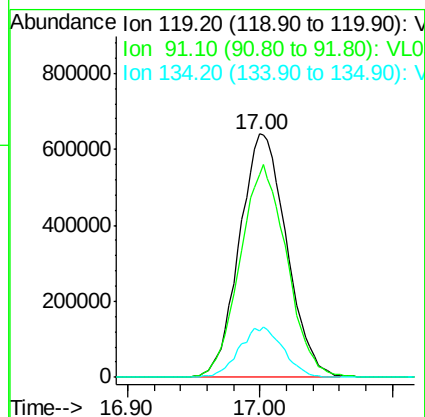
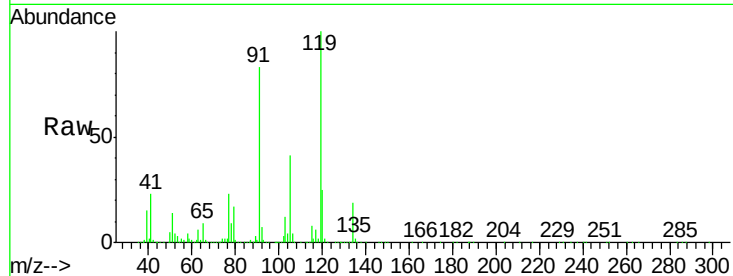
#65
tert-Butylbenzene
Concen: 1.85 ppbv
RT: 17.00 min Scan# 4949
Delta R.T. -0.01 min
Lab File: VL032229.D
Acq: 12 Jul 2018 18:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
119	100		
91	87.2	68.6	102.8
134	19.3	15.4	23.2

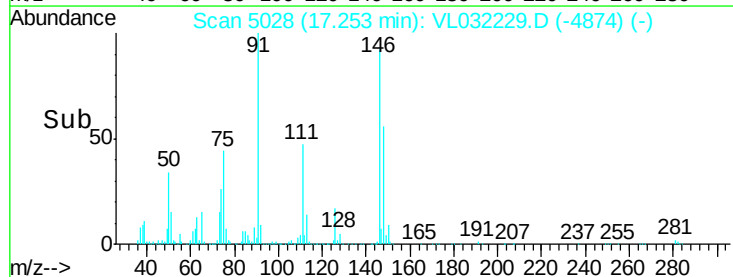
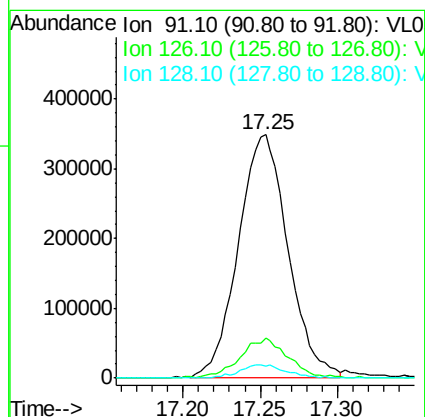
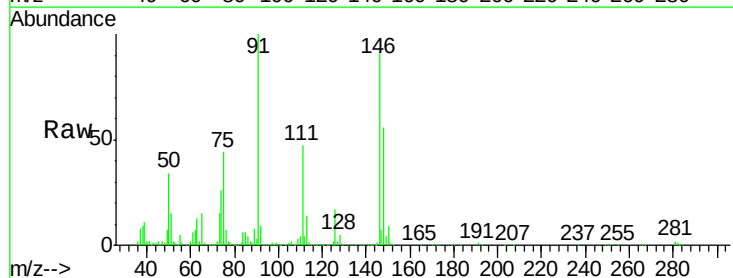
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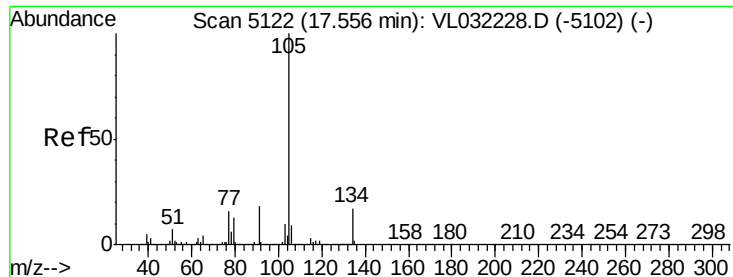
MMDadoda
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#66
Benzyl Chloride
Concen: 1.51 ppbv
RT: 17.25 min Scan# 5028
Delta R.T. -0.00 min
Lab File: VL032229.D
Acq: 12 Jul 2018 18:44

Tgt Ion	Ratio	Lower	Upper
91	100		
126	16.3	13.4	20.0
128	5.2	4.5	6.7





#67

sec-Butylbenzene

Concen: 1.86 ppbv

RT: 17.55 min Scan# 5121

Delta R.T. -0.00 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 2330702

Ion Ratio Lower Upper

105 100

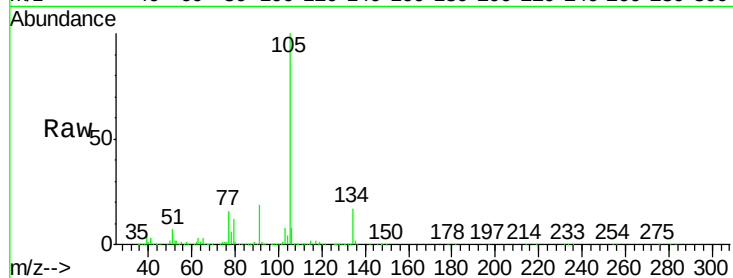
134 17.1

14.2 21.2

Manual Integrations
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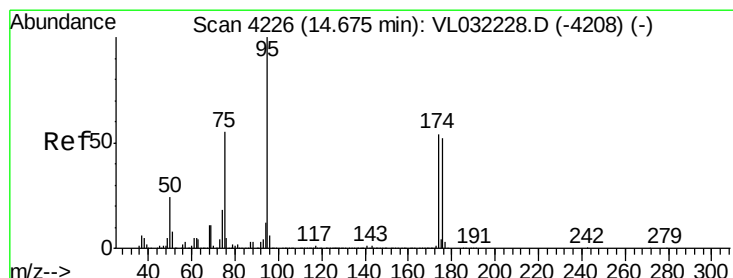
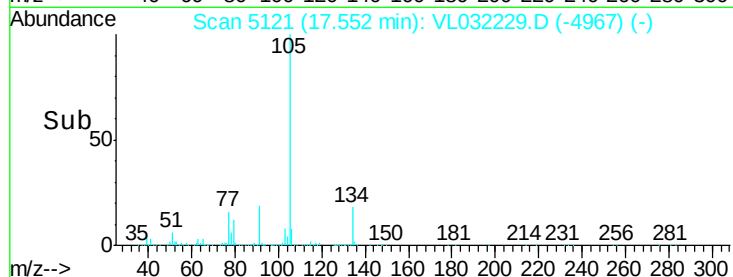
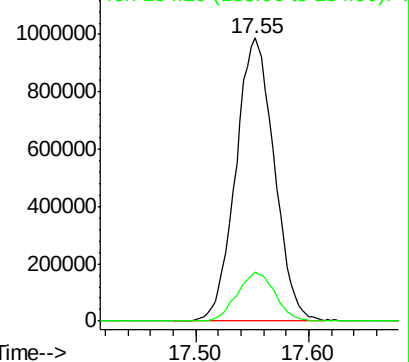
MMDadoda

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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: 9.89 ppbv

RT: 14.67 min Scan# 4226

Delta R.T. -0.00 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Tgt Ion: 95 Resp: 3767236

Ion Ratio Lower Upper

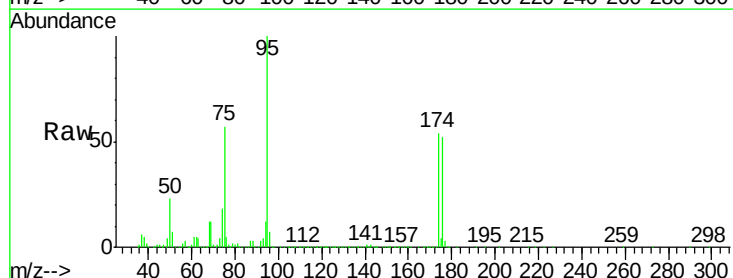
95 100

174 55.1

175 4.1

44.6 67.0

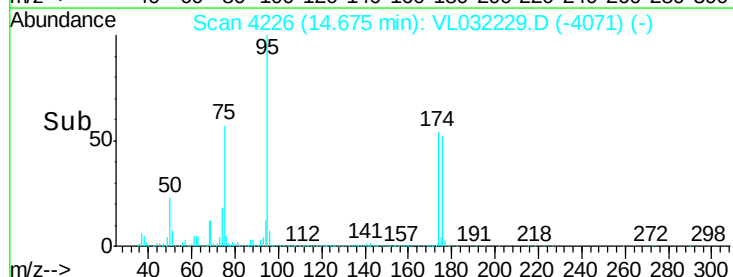
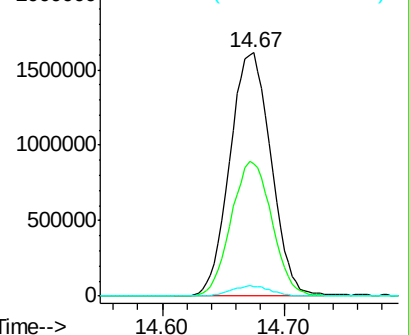
3.3 4.9

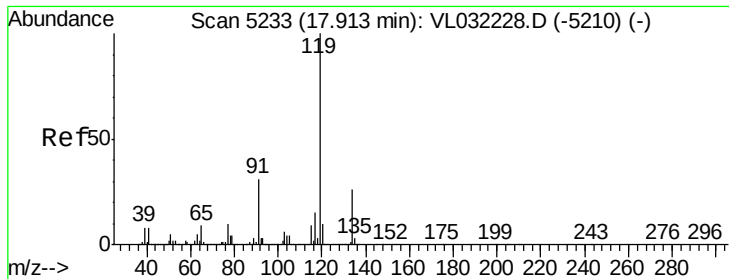


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





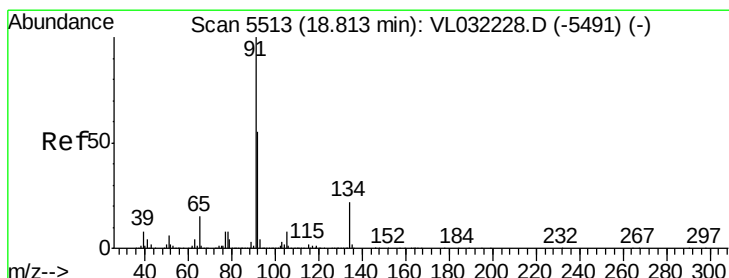
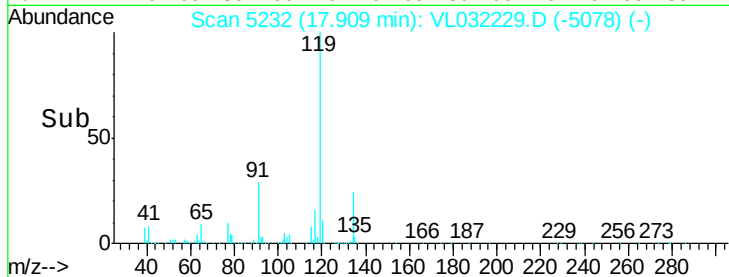
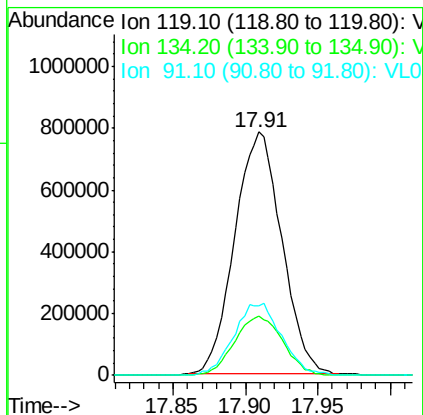
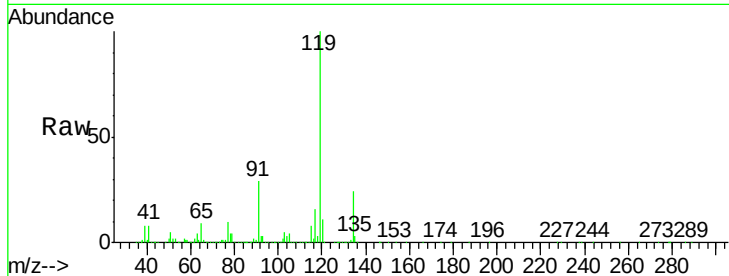
#69
 p-Isopropyltoluene
 Concen: 1.77 ppbv
 RT: 17.91 min Scan# 5232
 Delta R.T. -0.00 min
 Lab File: VL032229.D
 Acq: 12 Jul 2018 18:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.1	30.1
91	30.6	24.2	36.2

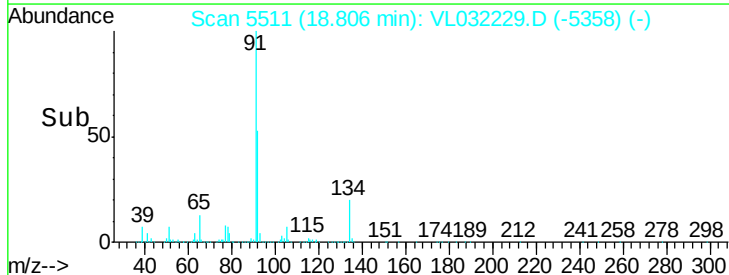
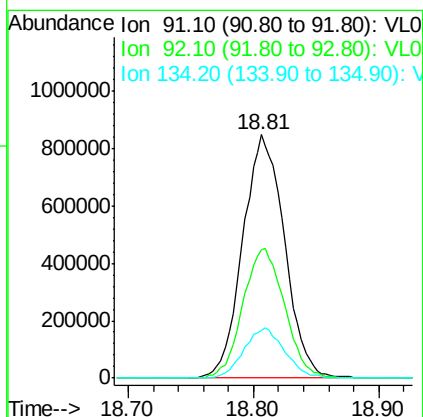
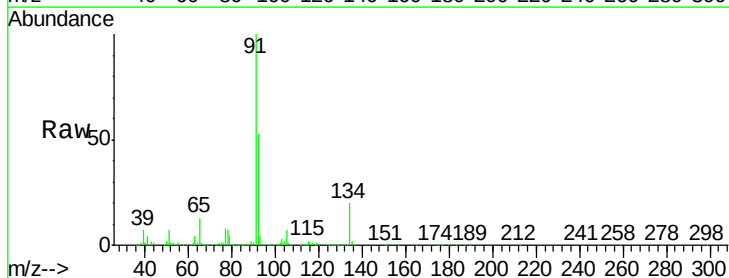
Manual Integrations
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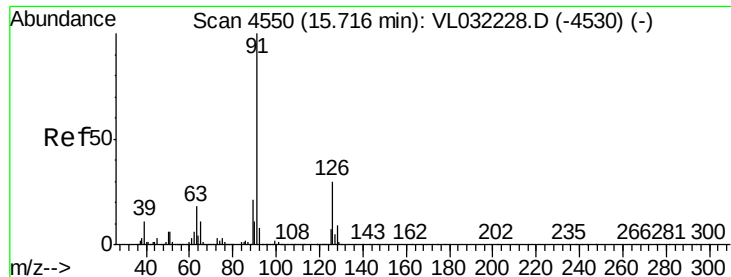
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#70
 n-Butylbenzene
 Concen: 1.85 ppbv
 RT: 18.81 min Scan# 5511
 Delta R.T. -0.01 min
 Lab File: VL032229.D
 Acq: 12 Jul 2018 18:44

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.7	43.6	65.4
134	20.3	17.1	25.7





#71

2-Chlorotoluene

Concen: 1.91 ppbv

RT: 15.71 min Scan# 4549

Delta R.T. -0.00 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 1445346

Ion Ratio Lower Upper

91 100

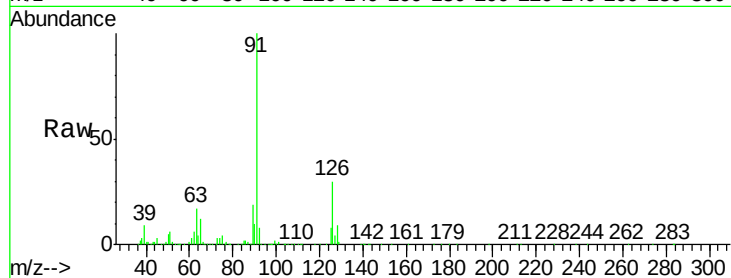
126 29.0 11.7 46.7

Manual Integrations

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

1200000

1000000

800000

600000

400000

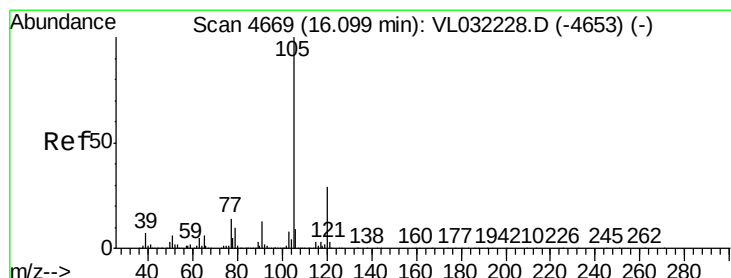
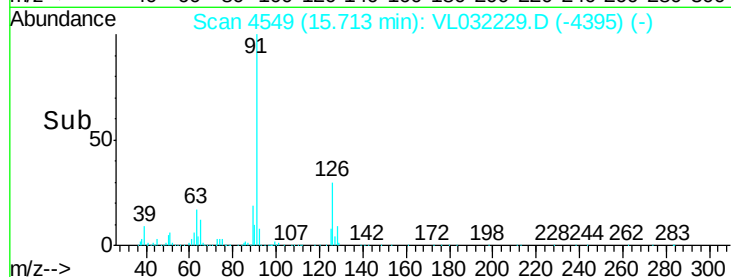
200000

0

15.60

15.70

Time-->



#72

4-Ethyltoluene

Concen: 1.78 ppbv

RT: 16.09 min Scan# 4667

Delta R.T. -0.01 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Tgt Ion: 105 Resp: 1458893

Ion Ratio Lower Upper

105 100

120 28.5 23.3 34.9

91 12.9 10.3 15.5

77 14.9 11.5 17.3

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

1000000

800000

600000

400000

200000

0

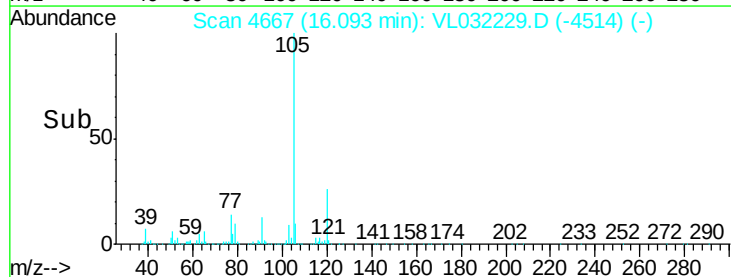
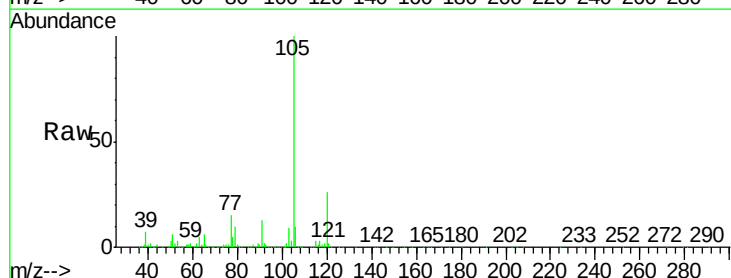
16.00

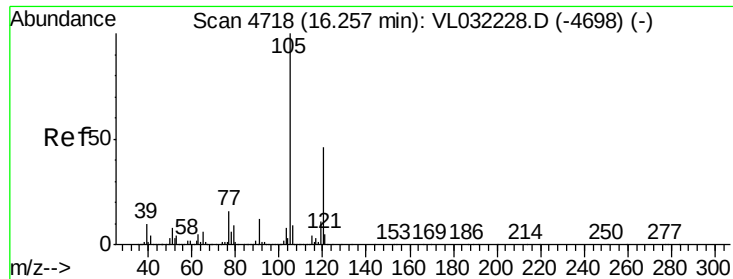
16.05

16.10

16.15

Time-->





#73

1,3,5-Trimethylbenzene

Concen: 1.74 ppbv

RT: 16.25 min Scan# 4717

Delta R.T. -0.00 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 1344054

Ion Ratio Lower Upper

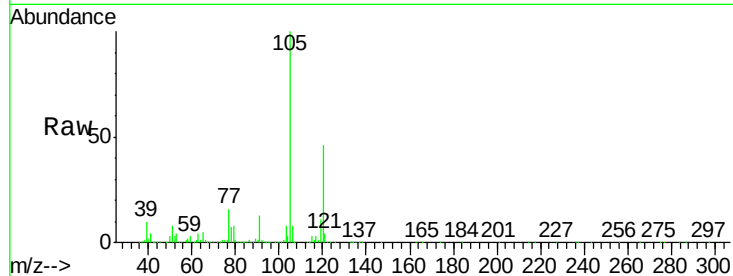
105 100

120 46.3 36.6 54.8

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.25

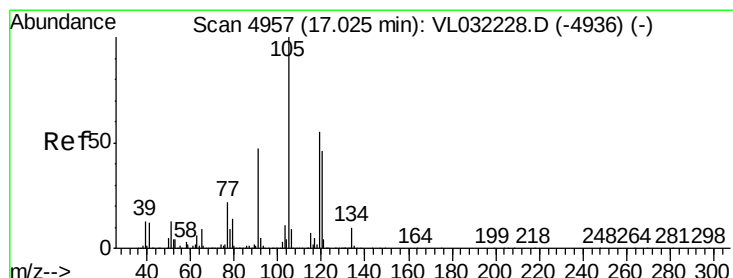
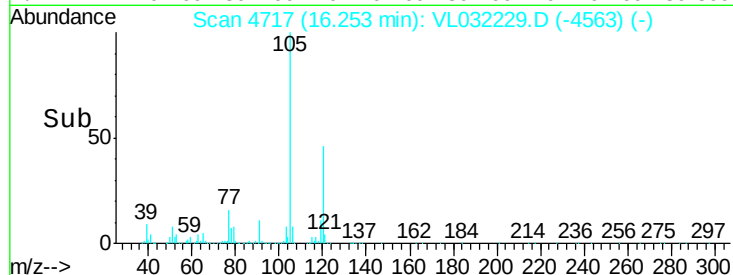
600000

400000

200000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 1.76 ppbv

RT: 17.02 min Scan# 4954

Delta R.T. -0.01 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Tgt Ion:105 Resp: 1372859

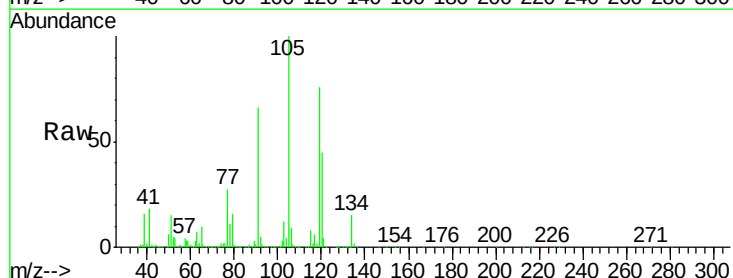
Ion Ratio Lower Upper

105 100

120 44.9 37.0 55.4

91 65.6 38.2 57.2#

77 26.4 17.7 26.5



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

800000

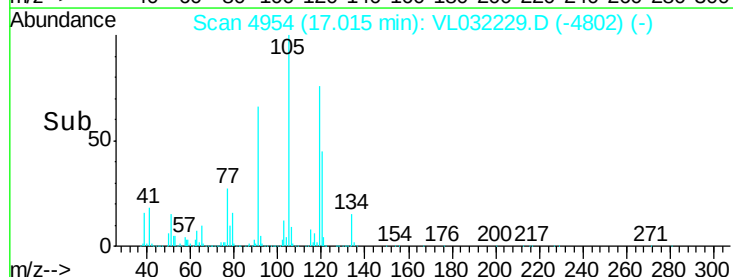
600000

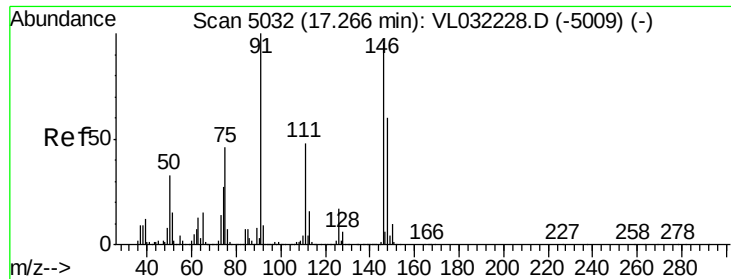
400000

200000

0

Time-->





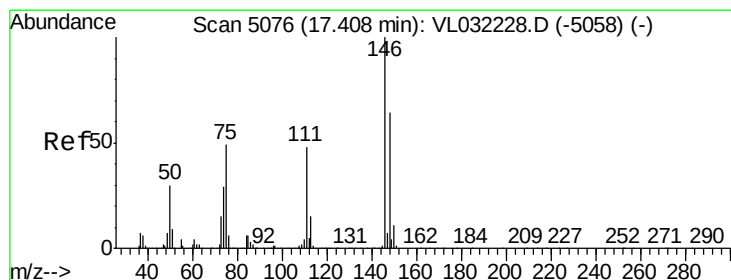
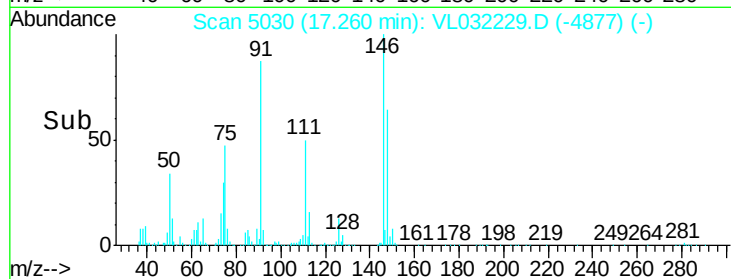
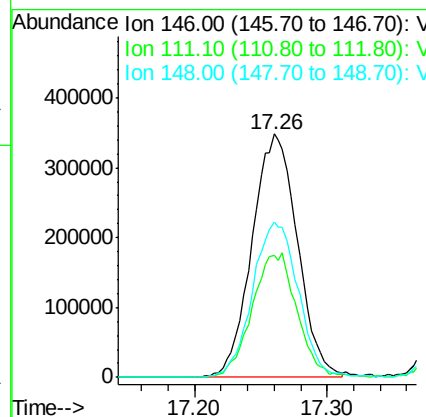
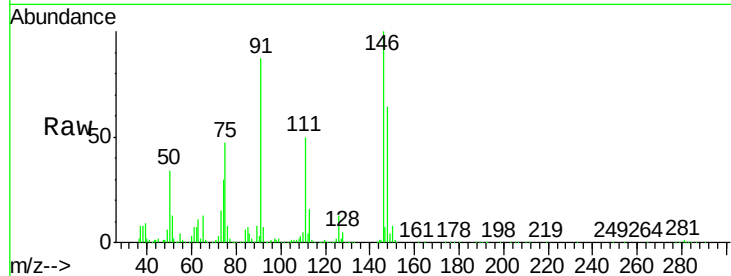
#75
 1,3-Dichlorobenzene
 Concen: 1.88 ppbv
 RT: 17.26 min Scan# 5030
 Delta R.T. -0.01 min
 Lab File: VL032229.D
 Acq: 12 Jul 2018 18:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.7	24.9	74.7
148	64.8	31.9	95.5

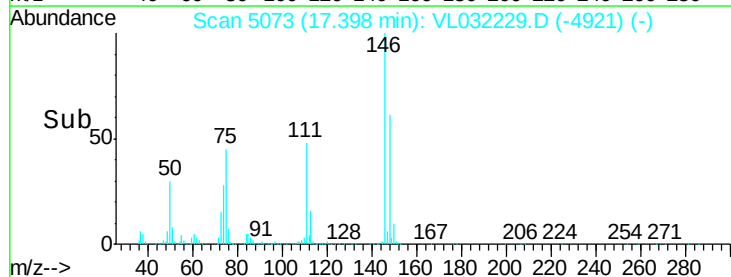
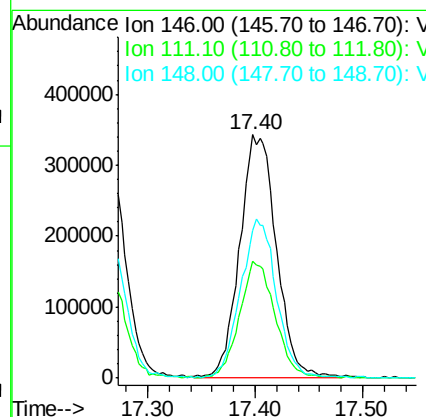
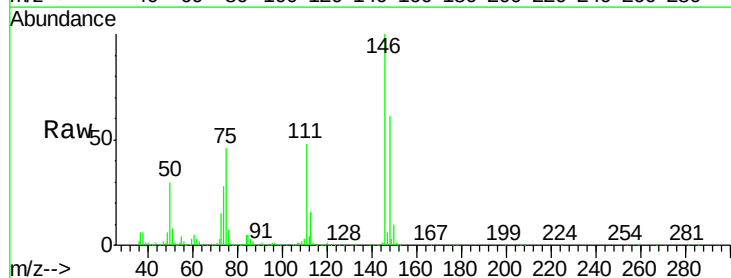
Manual Integrations
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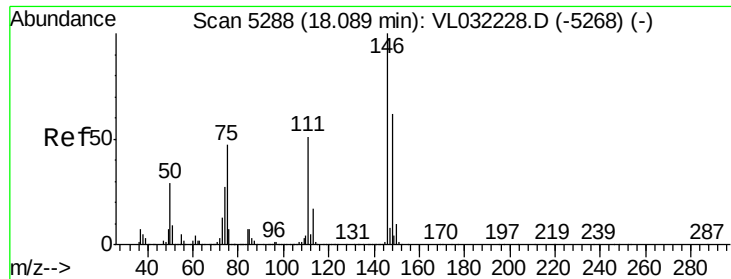
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#76
 1,4-Dichlorobenzene
 Concen: 1.83 ppbv m
 RT: 17.40 min Scan# 5073
 Delta R.T. -0.01 min
 Lab File: VL032229.D
 Acq: 12 Jul 2018 18:44

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	24.6	73.6#
148	64.6	32.3	96.9





#77

1,2-Dichlorobenzene

Concen: 1.88 ppbv

RT: 18.09 min Scan# 5287

Delta R.T. -0.00 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Instrument :

MSVOA_L

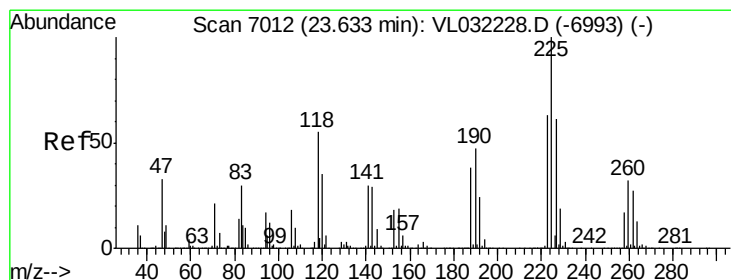
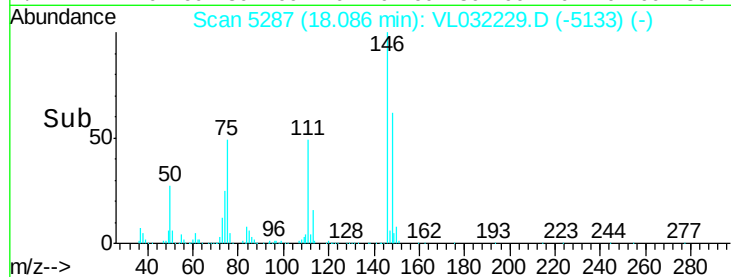
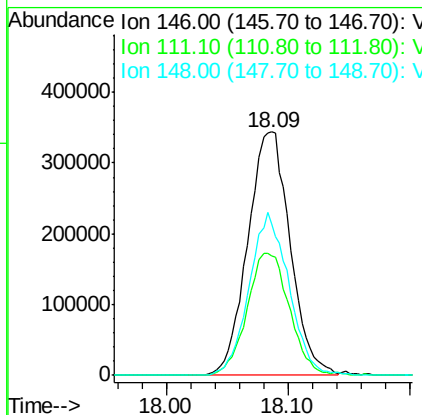
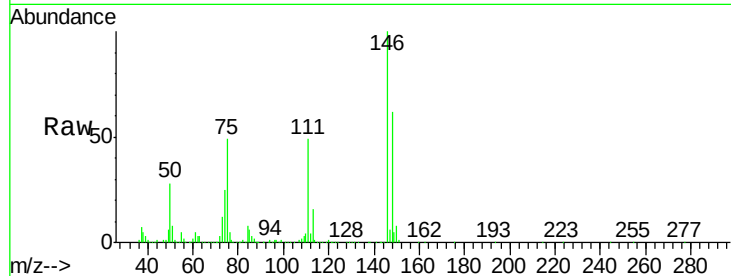
ClientSampleId :

VSTDIC002

Tot Ion:	146	Resp:	825556
Ion Ratio	Lower	Upper	
146	100		
111	50.4	26.1	78.3
148	62.9	32.0	96.0

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#78

Hexachloro-1,3-Butadiene

Concen: 1.79 ppbv

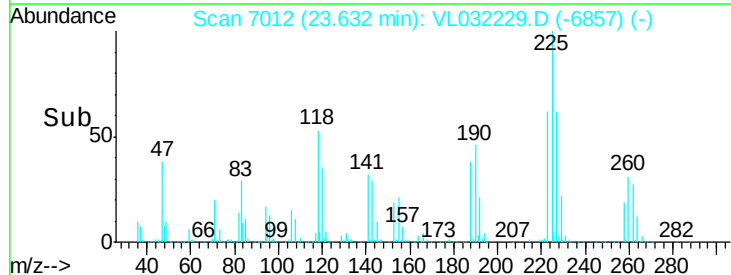
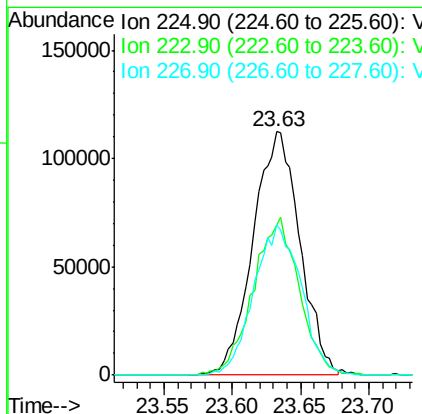
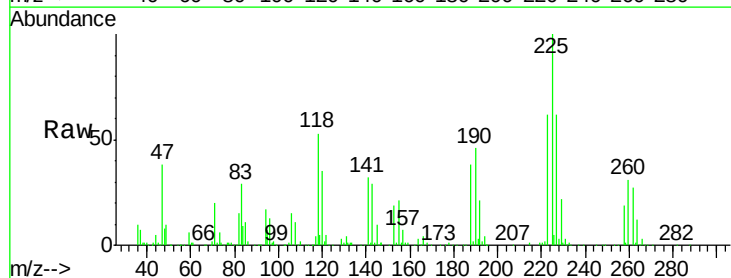
RT: 23.63 min Scan# 7012

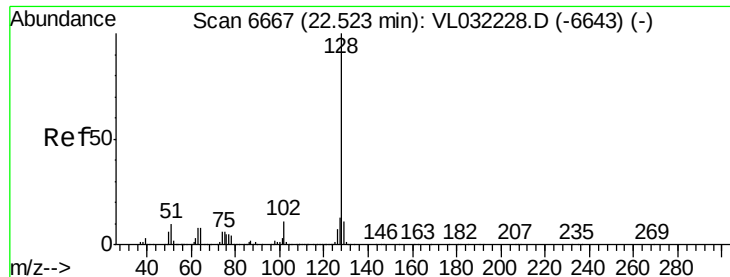
Delta R.T. -0.00 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Tgt Ion:	225	Resp:	267438
Ion Ratio	Lower	Upper	
225	100		
223	63.7	50.3	75.5
227	62.7	50.9	76.3





#79

Naphthalene

Concen: 1.04 ppbv

RT: 22.52 min Scan# 6667

Delta R.T. -0.00 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Instrument :

MSVOA_L

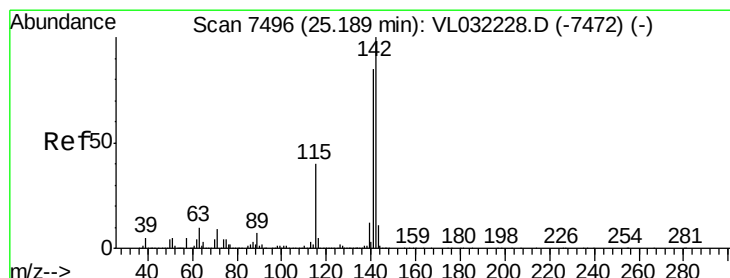
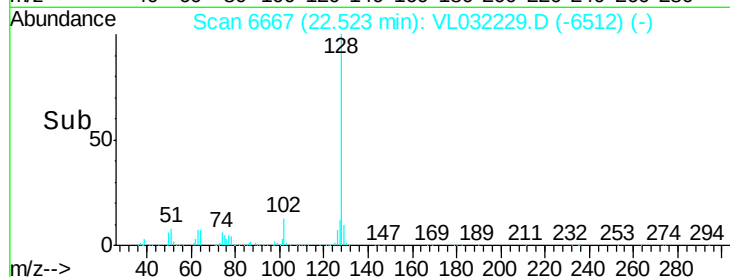
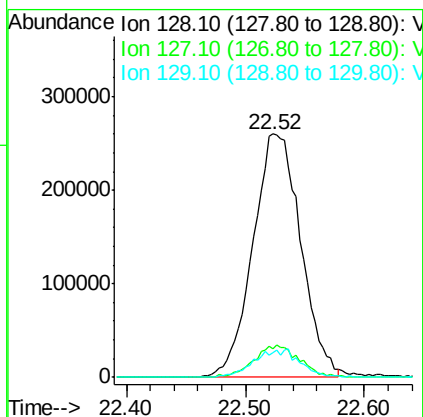
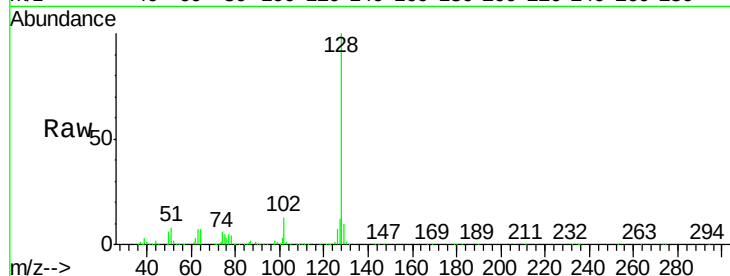
ClientSampleId :

VSTDIC002

Tot Ion:	128	Resp:	724428
Ion Ratio	Lower	Upper	
128	100		
127	12.0	10.0	15.0
129	10.0	9.0	13.4

Manual Integrations
APPROVED

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7/13/2018 5:22:09 PM



#80

Naphthalene, 2-methyl-

Concen: 0.20 ppbv

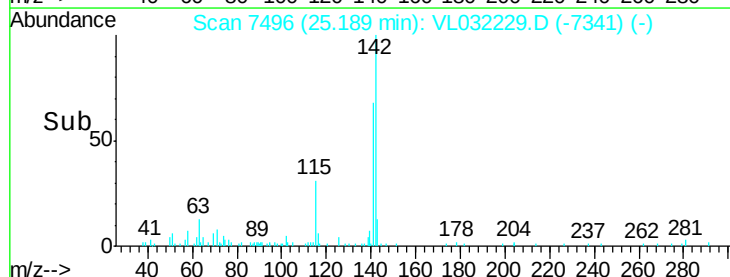
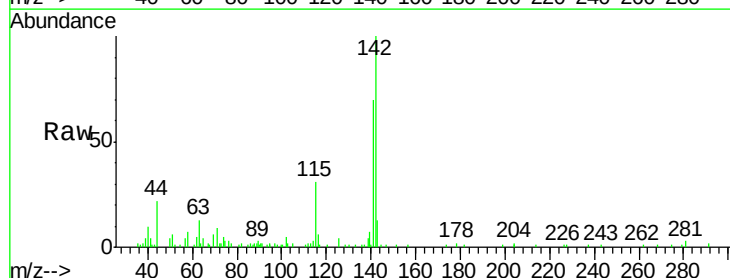
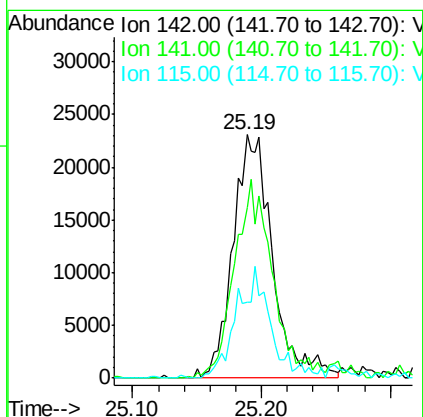
RT: 25.19 min Scan# 7496

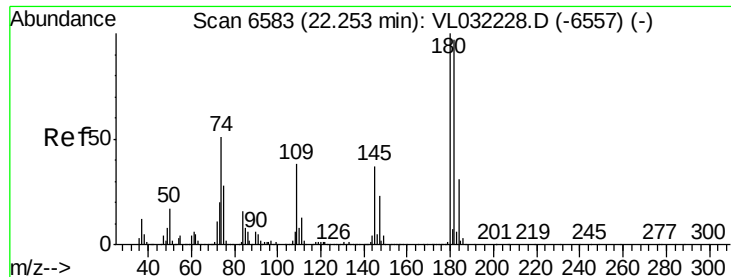
Delta R.T. -0.00 min

Lab File: VL032229.D

Acq: 12 Jul 2018 18:44

Tgt Ion:	142	Resp:	48964
Ion Ratio	Lower	Upper	
142	100		
141	79.2	67.0	100.6
115	39.5	32.6	49.0





#81
 1,2,4-Trichlorobenzene
 Concen: 1.27 ppbv
 RT: 22.25 min Scan# 6582
 Delta R.T. -0.00 min
 Lab File: VL032229.D
 Acq: 12 Jul 2018 18:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
180	100	395965		
182	97.0		76.1	114.1
184	30.2		24.2	36.4

Manual Integrations
 APPROVED

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 7/13/2018 5:22:09 PM

