

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL012218\
 Data File : VL031417.D
 Acq On : 22 Jan 2018 14:32
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 1/24/2018 5:10:11 PM

Quant Time: Jan 22 17:12:23 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL012218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 22 2018
 QLast Update : Mon Jan 22 16:42:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.90	49	1363031	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.44	114	3160661	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	3121678	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.75	95	2519155	10.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.17	85	227441	0.86	ppbv	99
3) Chlorodifluoromethane	3.11	51	191233	0.95	ppbv	98
4) Chloromethane	3.27	50	84270	0.93	ppbv	93
5) Vinyl Chloride	3.40	62	85707	0.91	ppbv	99
6) Bromomethane	3.63	94	60973	0.97	ppbv	93
7) Chloroethane	3.71	64	34486	0.94	ppbv	90
8) Dichlorotetrafluoroethane	3.32	85	236862	0.98	ppbv	99
9) Propene	3.14	41	64233	0.87	ppbv	99
10) Heptane	8.40	43	198345	0.89	ppbv	97
11) Trichlorofluoromethane	4.12	101	275367	0.98	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.68	101	174655	0.98	ppbv	99
13) Ethanol	3.77	45	21052m	0.57	ppbv	
14) Bromoethene	3.90	108	64124	0.88	ppbv	99
15) Acetone	4.03	43	192853	0.85	ppbv	99
16) 1,3-Butadiene	3.47	39	83281	0.98	ppbv	93
17) tert-Butyl alcohol	4.50	59	91295	0.88	ppbv	100
18) 1,1-Dichloroethene	4.48	96	71794	0.92	ppbv	95
19) Isopropyl Alcohol	4.15	45	120268	0.78	ppbv #	96
20) Methylene Chloride	4.53	84	73629	0.90	ppbv	97
21) Allyl Chloride	4.60	41	108652	0.89	ppbv	96
22) trans-1,2-Dichloroethene	5.10	96	75440	0.91	ppbv	93
23) Vinyl Acetate	5.29	43	203515	0.79	ppbv #	98
24) 1,1-Dichloroethane	5.22	63	202097	0.93	ppbv	99
25) Ethyl Acetate	5.92	43	331263	0.86	ppbv	98
26) Hexane	5.92	57	149673	0.93	ppbv	98
27) Carbon Disulfide	4.75	76	189743	0.88	ppbv	97
28) Methyl tert-Butyl Ether	5.26	73	171439	0.87	ppbv	100
29) Chloroform	5.99	83	258381	0.93	ppbv	97
30) Cyclohexane	7.40	84	110435	0.85	ppbv	96
31) cis-1,2-Dichloroethene	5.78	61	136171	0.87	ppbv	94
32) 1,1,1-Trichloroethane	6.77	97	258908	0.89	ppbv	99
34) 2-Butanone	5.47	43	198557	0.76	ppbv	100
35) Carbon Tetrachloride	7.29	117	274080	0.91	ppbv	99
36) Benzene	7.16	78	280666	0.86	ppbv	100
37) 1,2-Dichloroethane	6.56	62	228037	0.95	ppbv	100
38) Trichloroethene	8.12	130	116802m	0.86	ppbv	
39) 1,2-Dichloropropane	7.90	63	109003	0.90	ppbv	97
40) 1,4-Dioxane	8.14	88	44033	0.73	ppbv	75
41) Tetrahydrofuran	6.31	42	107886	0.81	ppbv	98
42) Bromodichloromethane	8.07	83	268777	0.90	ppbv #	98
43) Methyl Methacrylate	8.30	69	97692	0.80	ppbv	96

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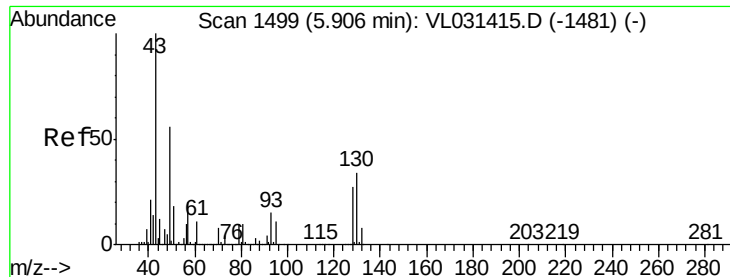
Manual Integrations
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 1/24/2018 5:10:11 PM

Quant Time: Jan 22 17:12:23 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL012218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 22 2018
 QLast Update : Mon Jan 22 16:42:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.15	57	498031	0.91	ppbv	98
45) t-1,3-Dichloropropene	9.58	75	136762	0.81	ppbv	91
46) cis-1,3-Dichloropropene	9.00	75	168582	0.81	ppbv	99
47) 1,1,2-Trichloroethane	9.78	97	127762	0.90	ppbv	97
48) Dibromochloromethane	10.62	129	218925	0.87	ppbv	99
49) Bromoform	13.37	173	165866	0.84	ppbv	99
50) 4-Methyl-2-Pentanone	9.04	43	271563	0.78	ppbv	98
51) 2-Hexanone	10.45	43	249845	0.71	ppbv #	95
52) Tetrachloroethene	11.54	164	108302	0.84	ppbv	96
53) Toluene	10.11	91	328216	0.85	ppbv	100
54) 1,2-Dibromoethane	10.93	107	189767	0.85	ppbv	91
56) 1,1,1,2-Tetrachloroethane	12.45	131	155194	0.96	ppbv #	1
57) Chlorobenzene	12.48	112	289168	0.98	ppbv #	96
58) Ethyl Benzene	13.03	91	475779	0.93	ppbv	95
59) m/p-Xylene	13.32	91	828351m	1.96	ppbv	
60) o-Xylene	14.02	91	420512	0.98	ppbv	99
61) Styrene	13.85	104	79002	0.84	ppbv	99
62) Isopropylbenzene	15.00	105	523464	0.97	ppbv	99
63) 1,1,2,2-Tetrachloroethane	14.00	83	292576	0.90	ppbv	100
64) n-propylbenzene	15.89	120	125493	0.92	ppbv	85
65) tert-Butylbenzene	17.07	119	459097	0.95	ppbv	97
66) Benzyl Chloride	17.32	91	43225m	0.96	ppbv	
67) sec-Butylbenzene	17.62	105	643581	0.94	ppbv	99
69) p-Isopropyltoluene	17.98	119	515050	0.95	ppbv	98
70) n-Butylbenzene	18.88	91	542696	0.96	ppbv	98
71) 2-Chlorotoluene	15.79	91	395672	0.95	ppbv	99
72) 4-Ethyltoluene	16.17	105	414439	0.94	ppbv	99
73) 1,3,5-Trimethylbenzene	16.32	105	382259	0.98	ppbv	97
74) 1,2,4-Trimethylbenzene	17.09	105	428947	1.01	ppbv #	89
75) 1,3-Dichlorobenzene	17.33	146	260947	0.95	ppbv	96
76) 1,4-Dichlorobenzene	17.48	146	252214	0.93	ppbv	99
77) 1,2-Dichlorobenzene	18.16	146	260029m	0.96	ppbv	
78) Hexachloro-1,3-Butadiene	23.71	225	131310	1.51	ppbv	98
79) Naphthalene	22.61	128	239618	1.16	ppbv	99
80) Naphthalene, 2-methyl-	25.25	142	47327	0.92	ppbv	98
81) 1,2,4-Trichlorobenzene	22.35	180	134600m	1.11	ppbv	

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.90 min Scan# 1498

Delta R.T. -0.01 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 49 Resp: 1363031

Ion Ratio Lower Upper

49 100

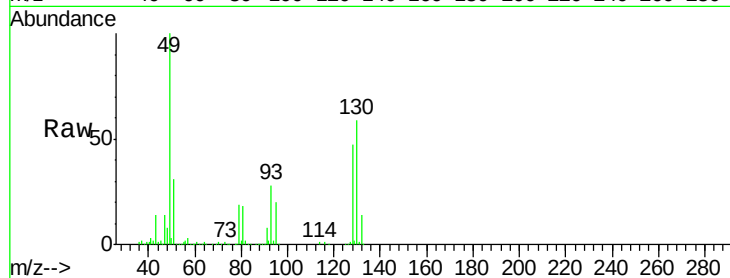
128 46.7 23.5 70.6

130 59.8 29.9 89.7

Manual Integrations
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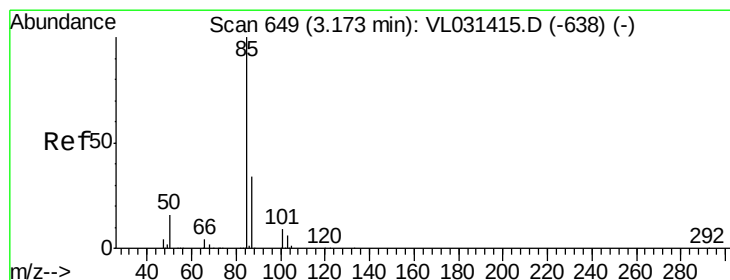
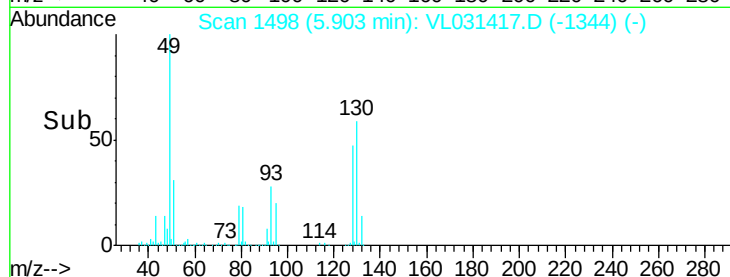
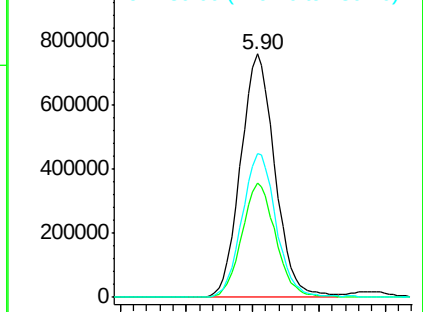
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.86 ppbv

RT: 3.17 min Scan# 649

Delta R.T. -0.00 min

Lab File: VL031417.D

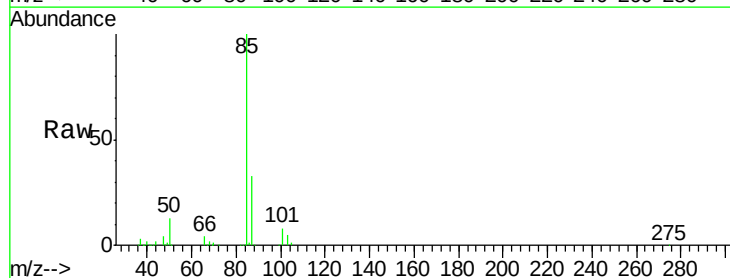
Acq: 22 Jan 2018 14:32

Tgt Ion: 85 Resp: 227441

Ion Ratio Lower Upper

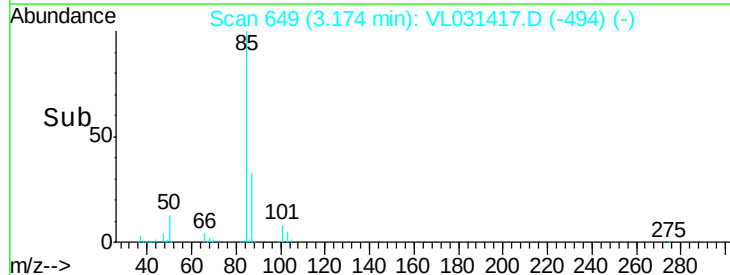
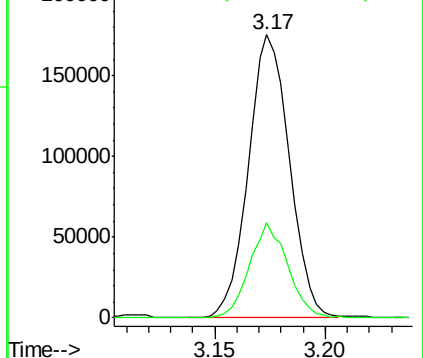
85 100

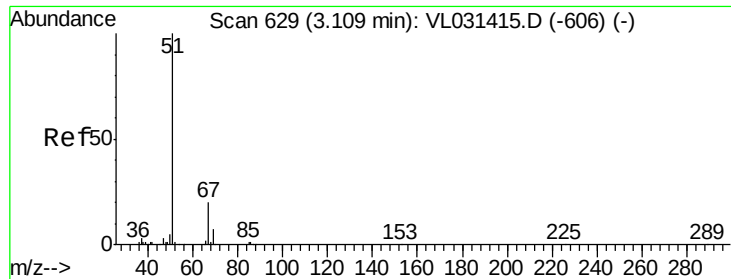
87 33.5 27.4 41.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.95 ppbv

RT: 3.11 min Scan# 629

Delta R.T. -0.00 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 51 Resp: 191233

Ion Ratio Lower Upper

51 100

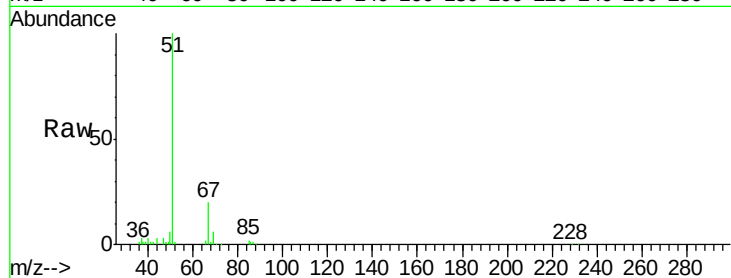
67 19.2 16.0 24.0

Manual Integrations

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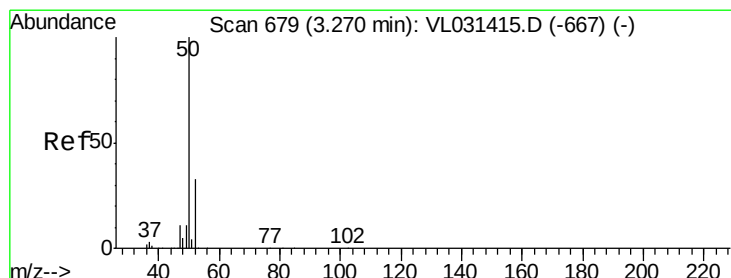
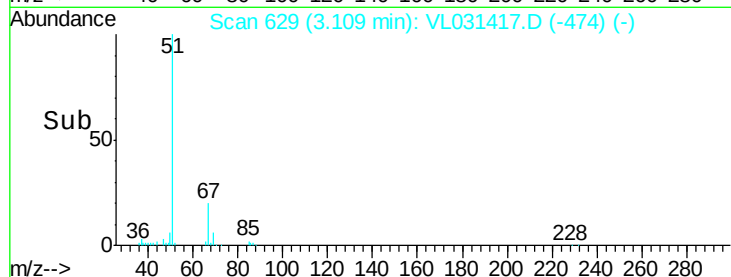
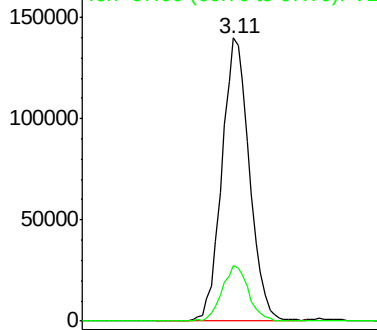
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.93 ppbv

RT: 3.27 min Scan# 679

Delta R.T. -0.00 min

Lab File: VL031417.D

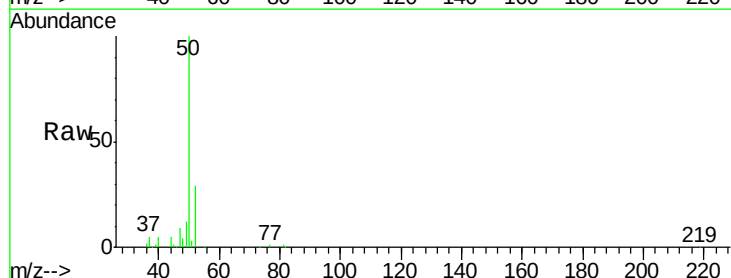
Acq: 22 Jan 2018 14:32

Tgt Ion: 50 Resp: 84270

Ion Ratio Lower Upper

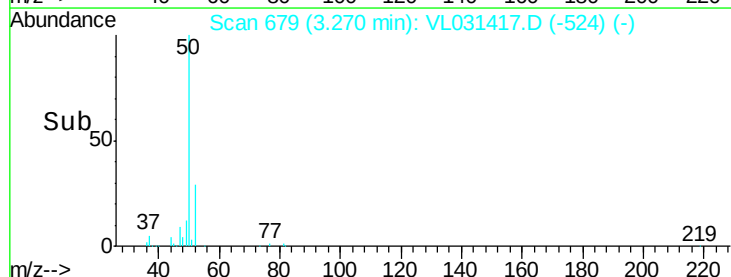
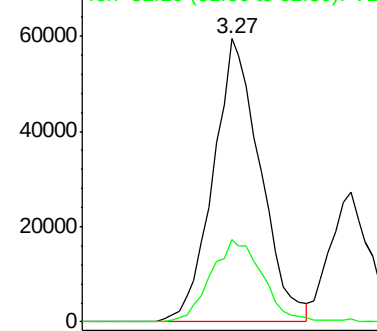
50 100

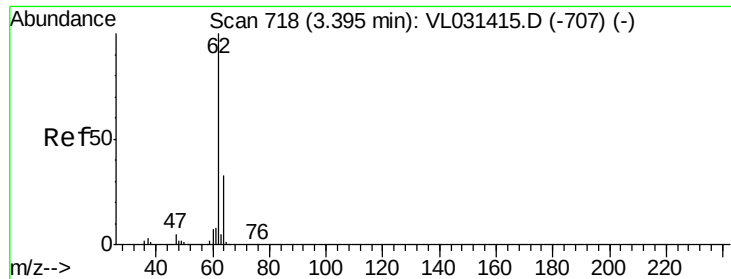
52 29.1 26.4 39.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.91 ppbv

RT: 3.40 min Scan# 718

Delta R.T. -0.00 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 62 Resp: 85707

Ion Ratio Lower Upper

62 100

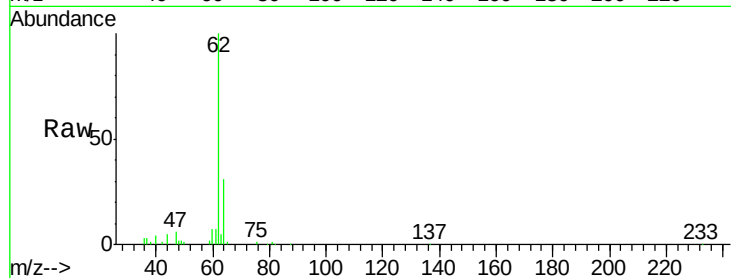
64 31.2 25.4 38.0

Manual Integrations

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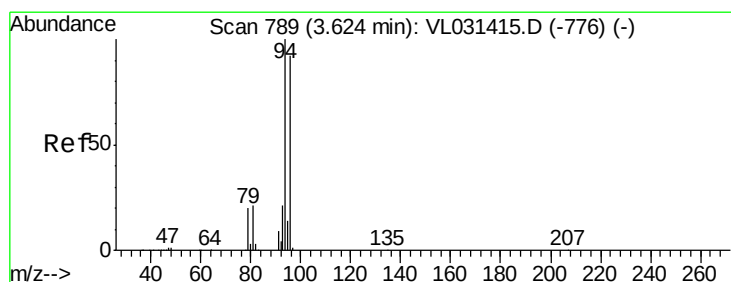
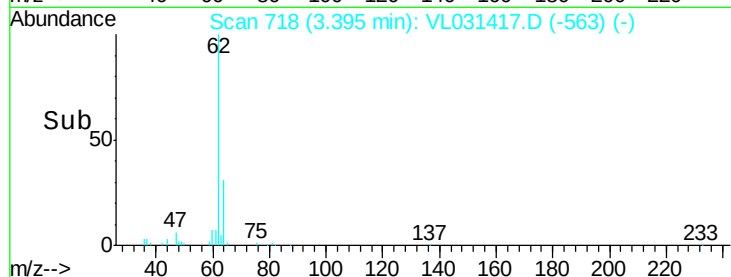
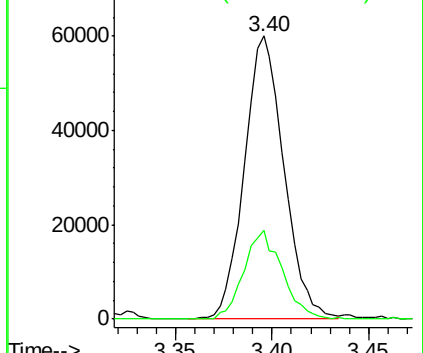
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.97 ppbv

RT: 3.63 min Scan# 790

Delta R.T. 0.00 min

Lab File: VL031417.D

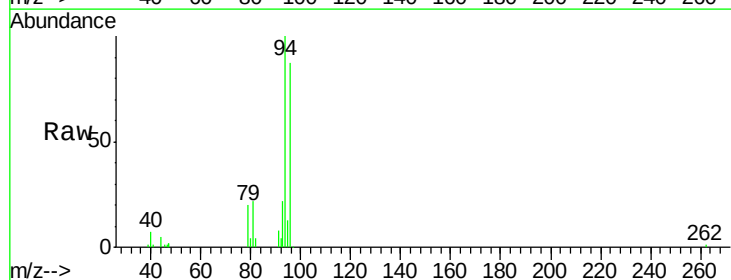
Acq: 22 Jan 2018 14:32

Tgt Ion: 94 Resp: 60973

Ion Ratio Lower Upper

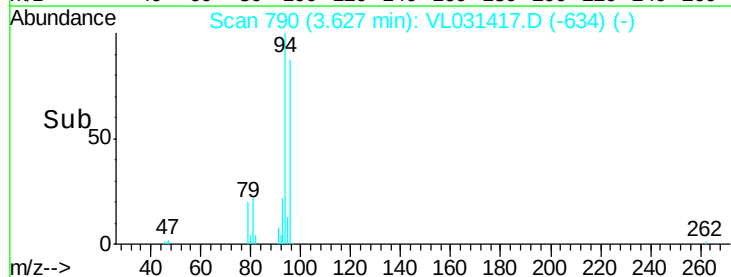
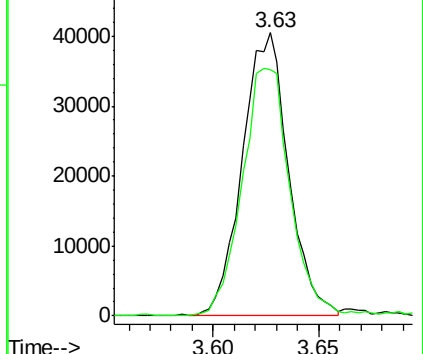
94 100

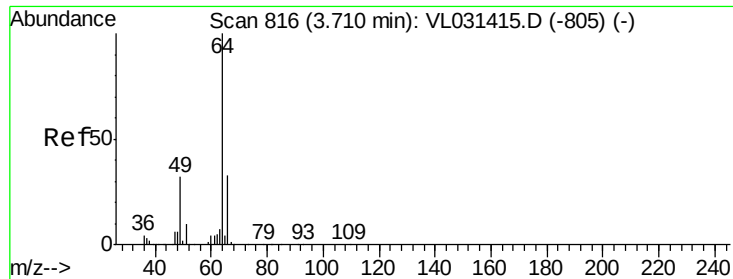
96 87.4 75.1 112.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.94 ppbv

RT: 3.71 min Scan# 816

Delta R.T. -0.00 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 64 Resp: 34486

Ion Ratio Lower Upper

64 100

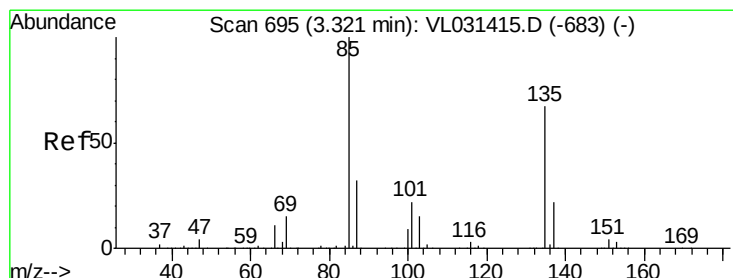
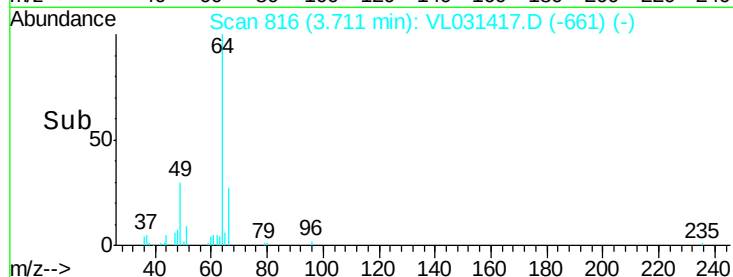
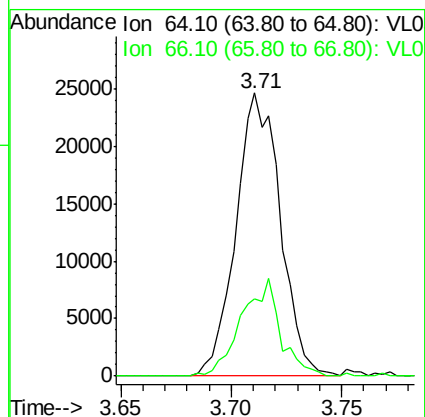
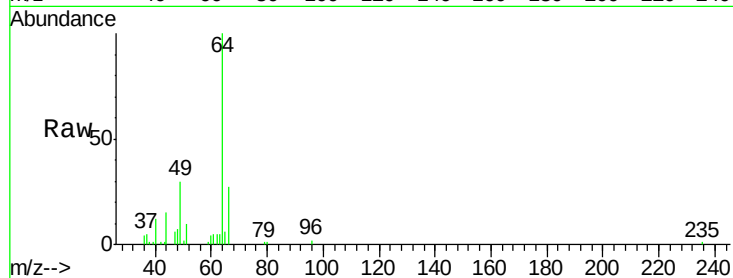
66 27.4 26.3 39.5

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 0.98 ppbv

RT: 3.32 min Scan# 695

Delta R.T. -0.00 min

Lab File: VL031417.D

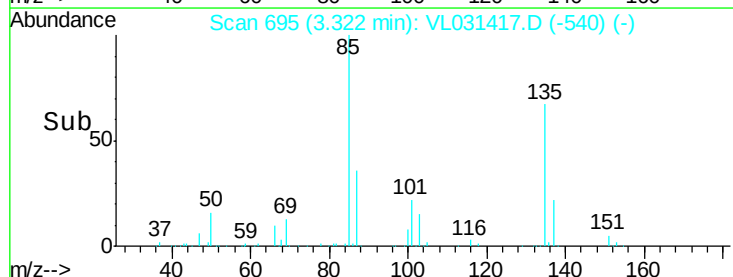
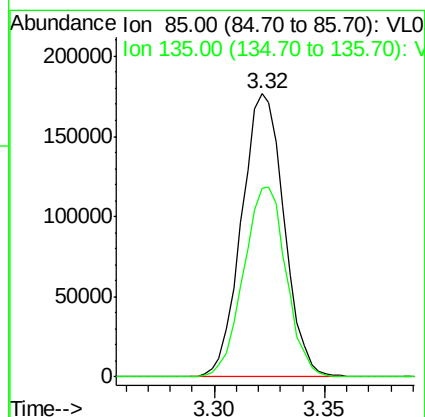
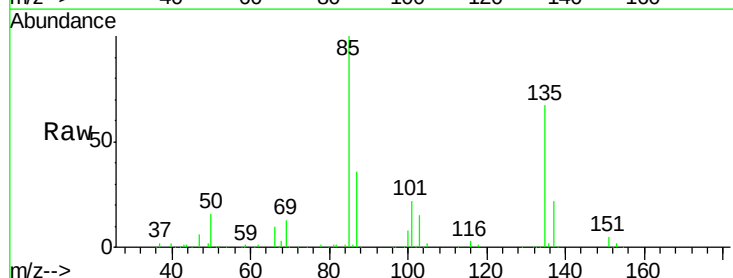
Acq: 22 Jan 2018 14:32

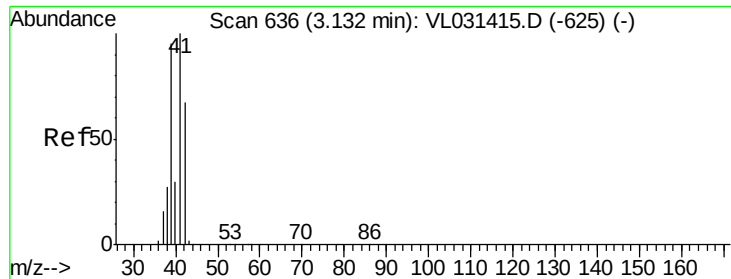
Tgt Ion: 85 Resp: 236862

Ion Ratio Lower Upper

85 100

135 67.5 53.3 79.9





#9

Propene

Concen: 0.87 ppbv

RT: 3.14 min Scan# 637

Delta R.T. -0.00 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 41 Resp: 64233

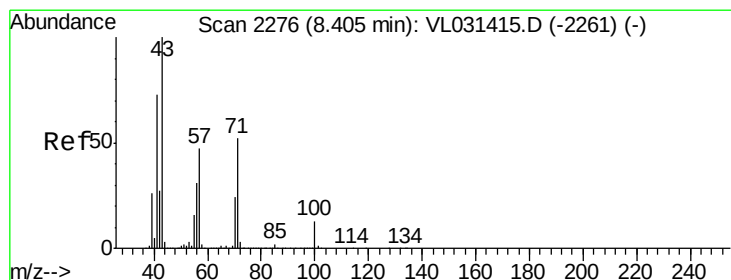
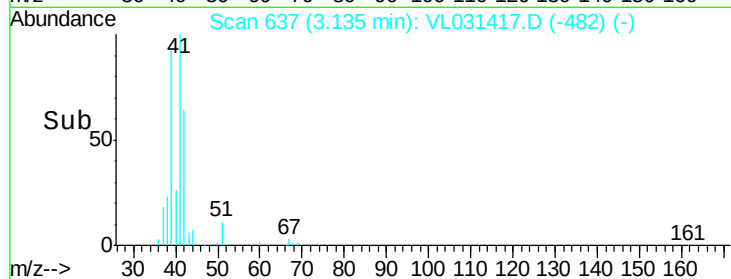
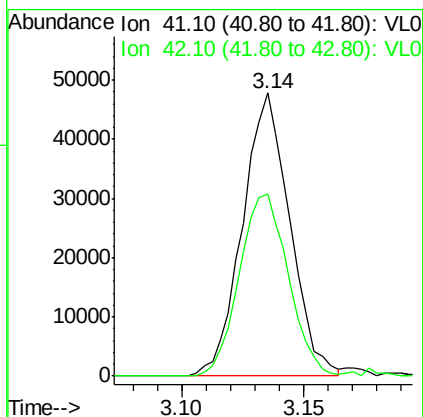
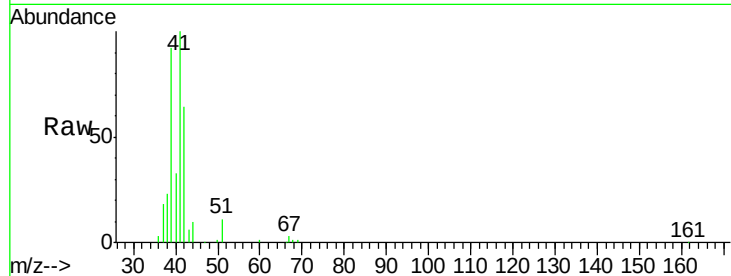
Ion Ratio Lower Upper

41 100

42 67.6 54.6 82.0

Manual Integrations
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#10

Heptane

Concen: 0.89 ppbv

RT: 8.40 min Scan# 2276

Delta R.T. -0.00 min

Lab File: VL031417.D

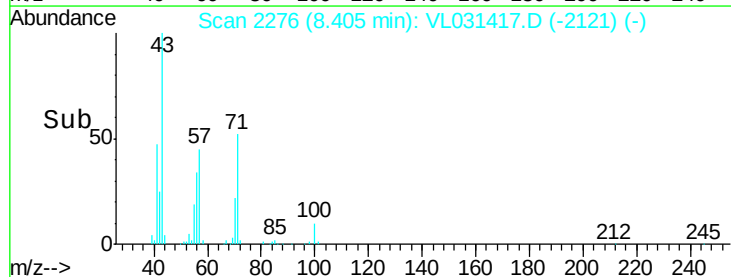
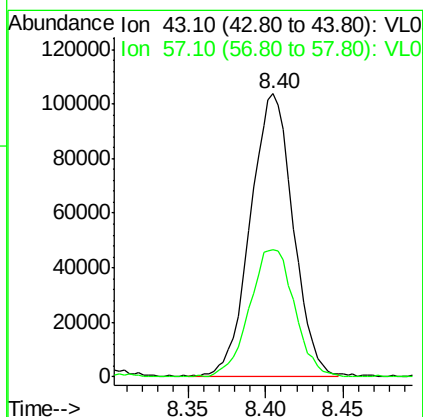
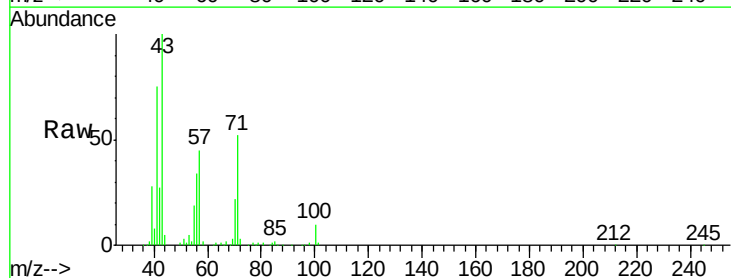
Acq: 22 Jan 2018 14:32

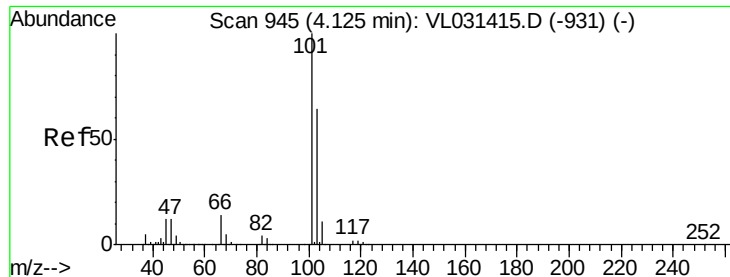
Tgt Ion: 43 Resp: 198345

Ion Ratio Lower Upper

43 100

57 47.8 39.7 59.5





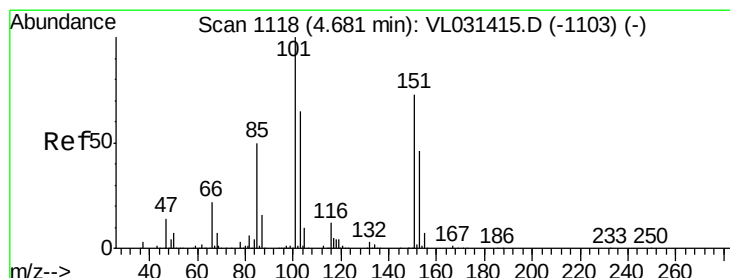
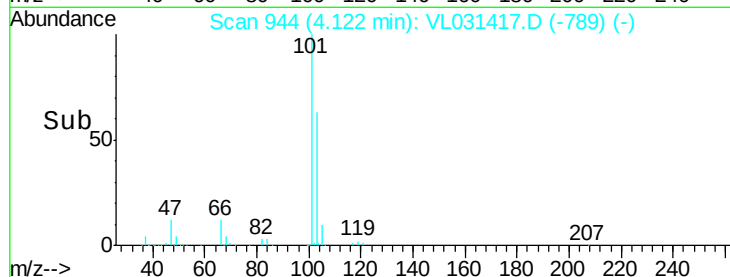
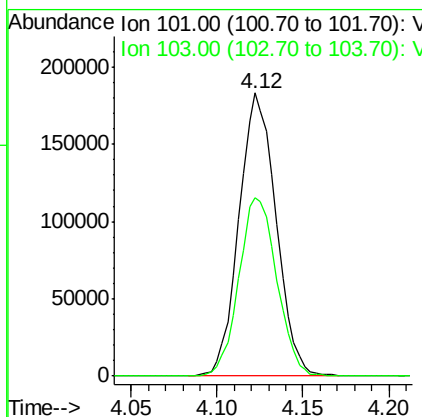
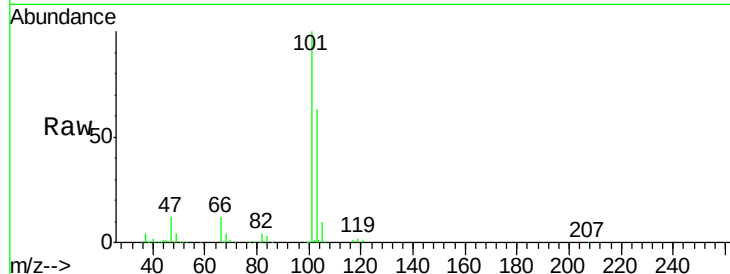
#11
 Trichlorofluoromethane
 Concen: 0.98 ppbv
 RT: 4.12 min Scan# 944
 Delta R.T. -0.00 min
 Lab File: VL031417.D
 Acq: 22 Jan 2018 14:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.2	53.1	79.7

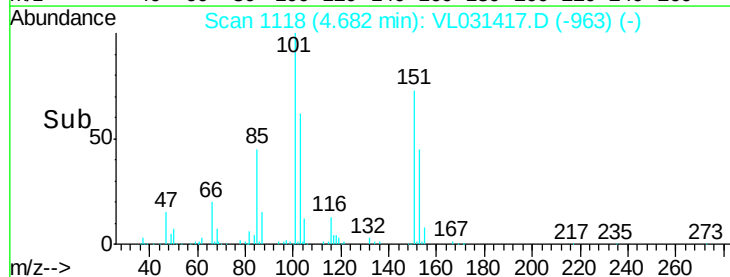
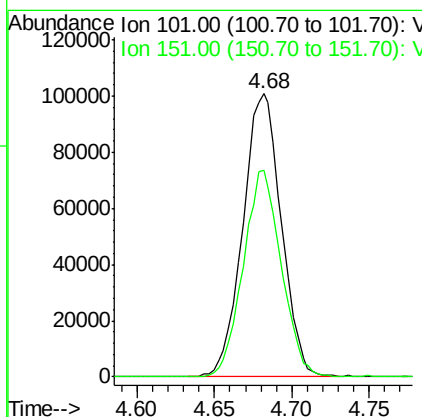
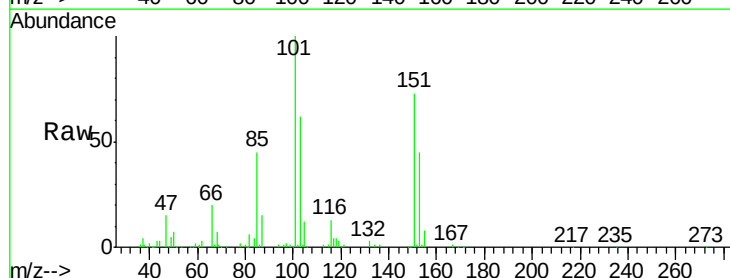
Manual Integrations
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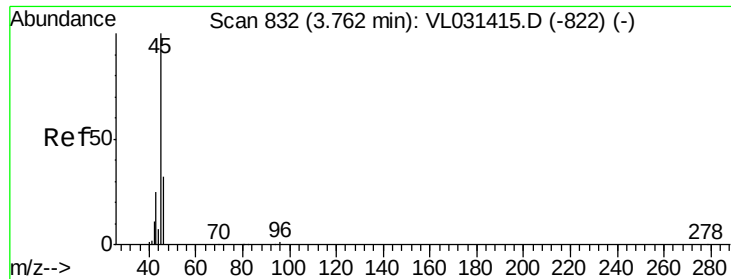
MMDadoda
 1/24/2018 5:10:11 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.98 ppbv
 RT: 4.68 min Scan# 1118
 Delta R.T. -0.00 min
 Lab File: VL031417.D
 Acq: 22 Jan 2018 14:32

Tgt Ion	Ratio	Lower	Upper
101	100		
151	72.0	58.1	87.1





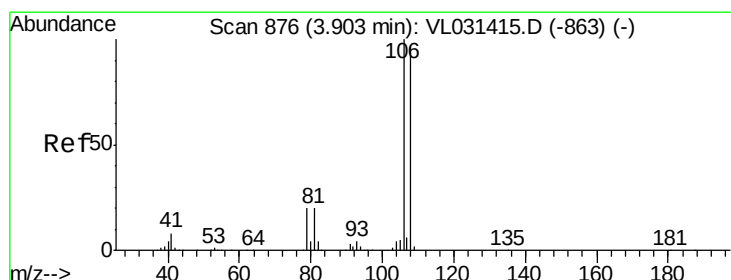
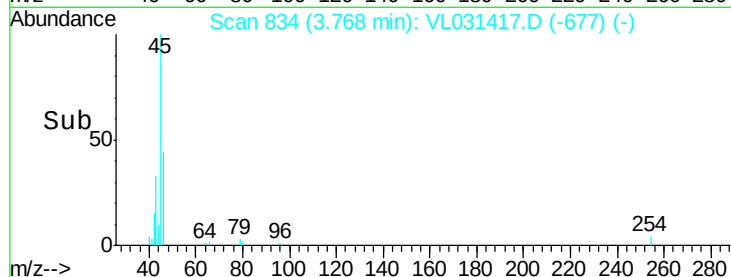
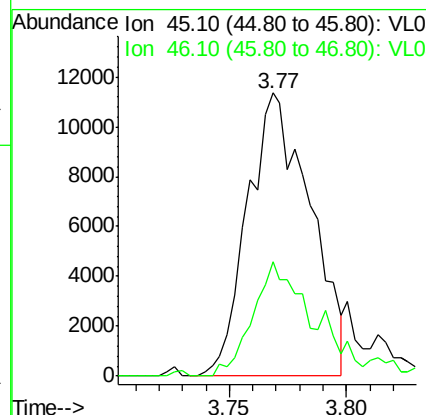
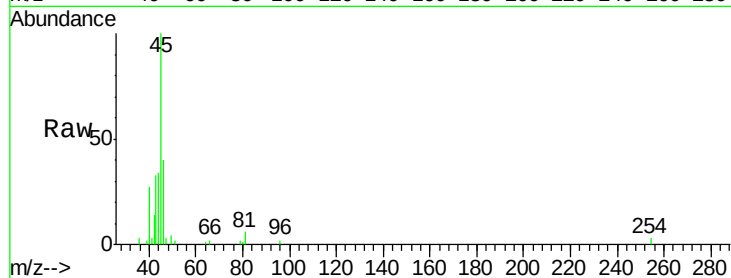
#13
Ethanol
Concen: 0.57 ppbv m
RT: 3.77 min Scan# 834
Delta R.T. 0.00 min
Lab File: VL031417.D
Acq: 22 Jan 2018 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 45 Resp: 21052
Ion Ratio Lower Upper
45 100
46 42.0 14.9 59.5

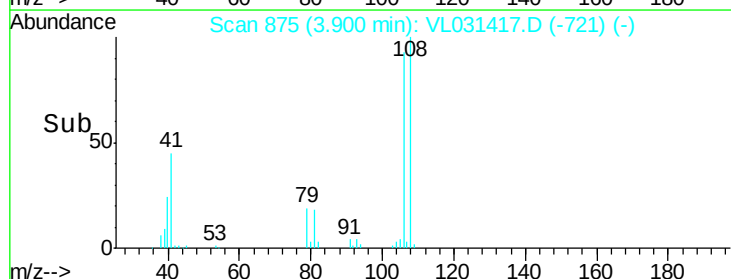
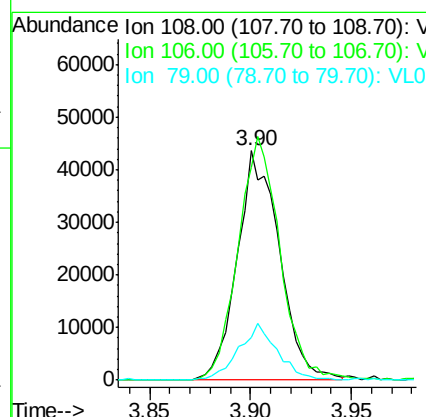
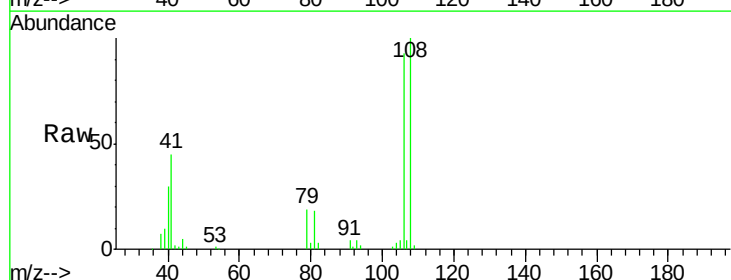
Manual Integrations
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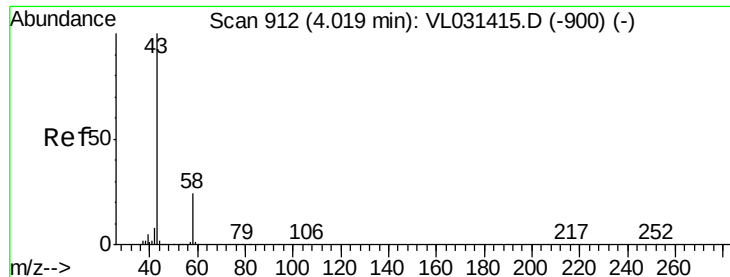
MMDadoda
1/24/2018 5:10:11 PM



#14
Bromoethene
Concen: 0.88 ppbv
RT: 3.90 min Scan# 875
Delta R.T. -0.01 min
Lab File: VL031417.D
Acq: 22 Jan 2018 14:32

Tgt Ion: 108 Resp: 64124
Ion Ratio Lower Upper
108 100
106 106.2 85.3 127.9
79 23.2 16.8 25.2





#15

Acetone

Concen: 0.85 ppbv

RT: 4.03 min Scan# 914

Delta R.T. 0.00 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 43 Resp: 192853

Ion Ratio Lower Upper

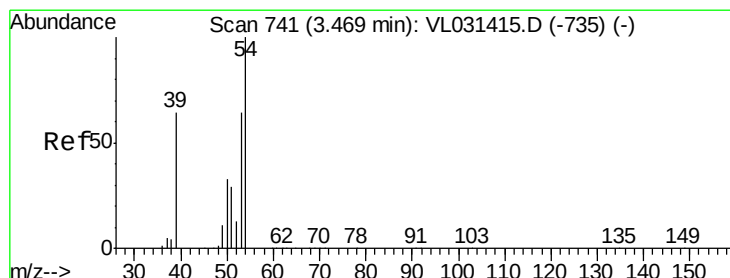
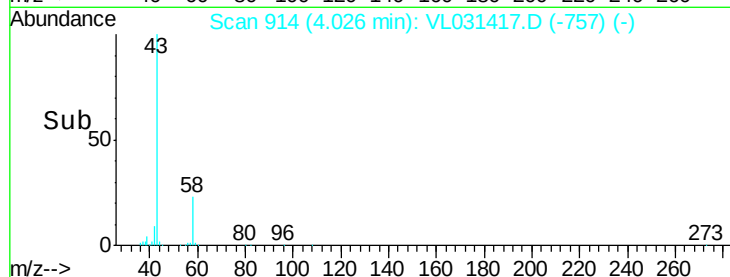
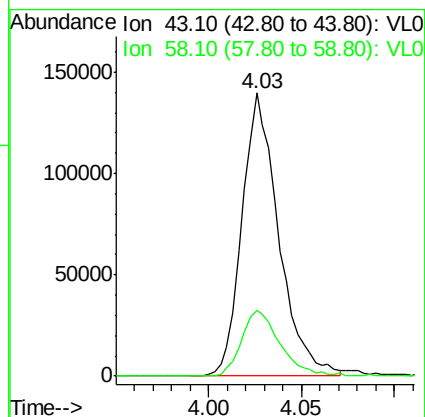
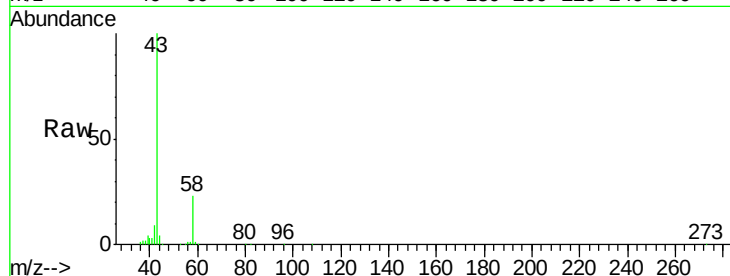
43 100

58 24.9 19.4 29.2

Manual Integrations
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MMDadoda

1/24/2018 5:10:11 PM



#16

1,3-Butadiene

Concen: 0.98 ppbv

RT: 3.47 min Scan# 741

Delta R.T. -0.00 min

Lab File: VL031417.D

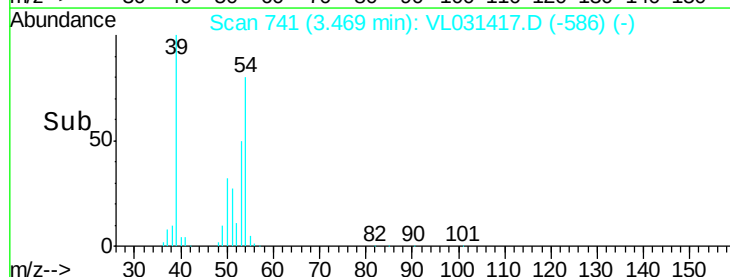
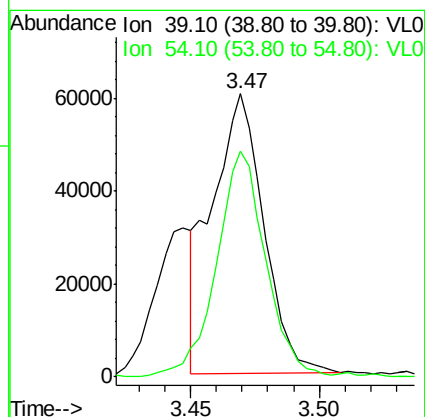
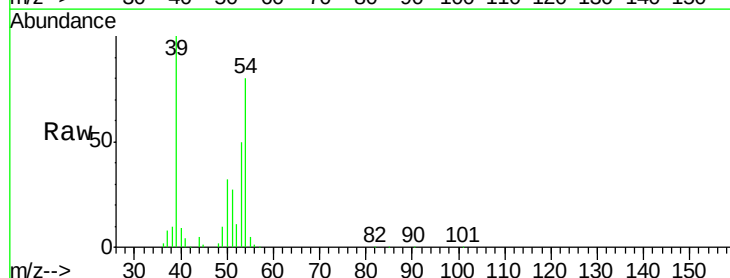
Acq: 22 Jan 2018 14:32

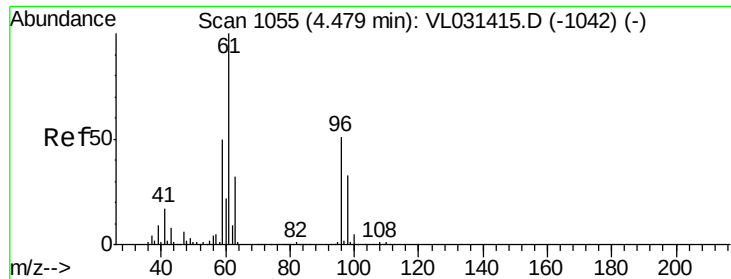
Tgt Ion: 39 Resp: 83281

Ion Ratio Lower Upper

39 100

54 77.9 67.0 100.6





#17

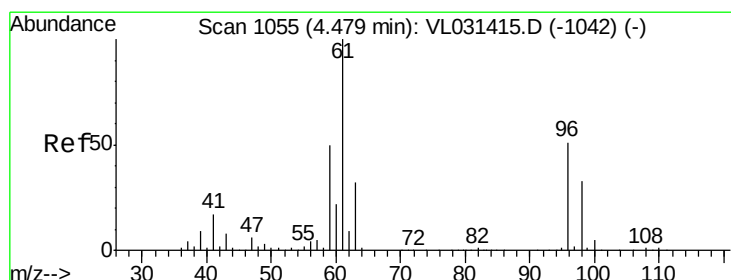
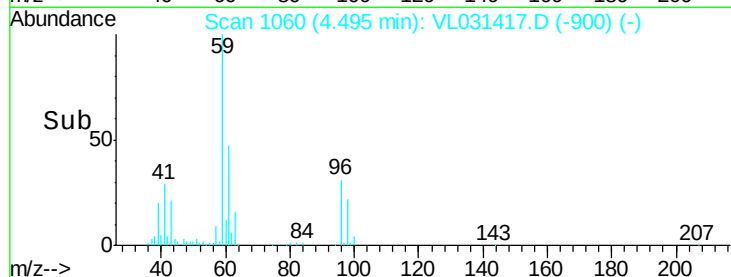
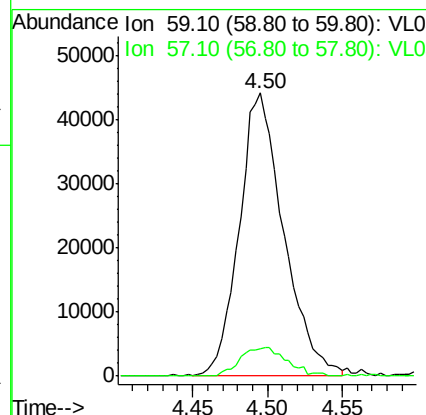
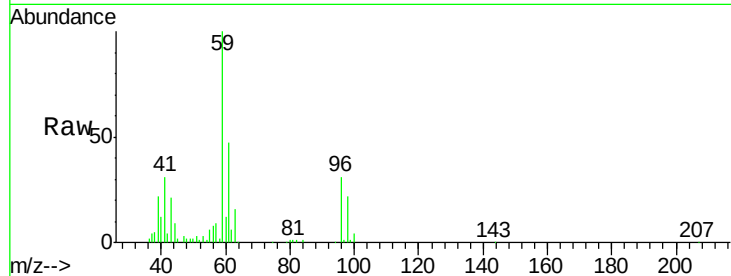
tert-Butyl alcohol
Concen: 0.88 ppbv
RT: 4.50 min Scan# 1060
Delta R.T. 0.01 min
Lab File: VL031417.D
Acq: 22 Jan 2018 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 59 Resp: 91295
Ion Ratio Lower Upper
59 100
57 10.8 8.6 13.0

Manual Integrations
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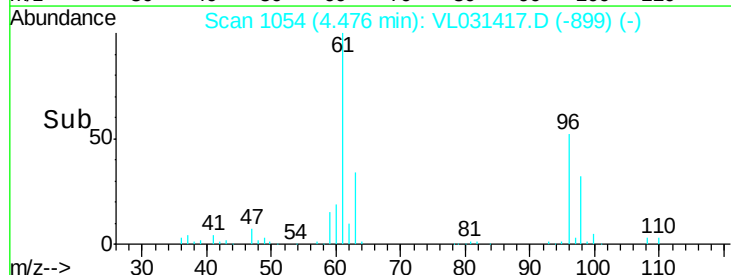
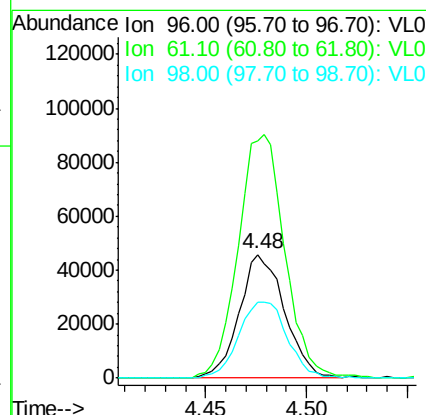
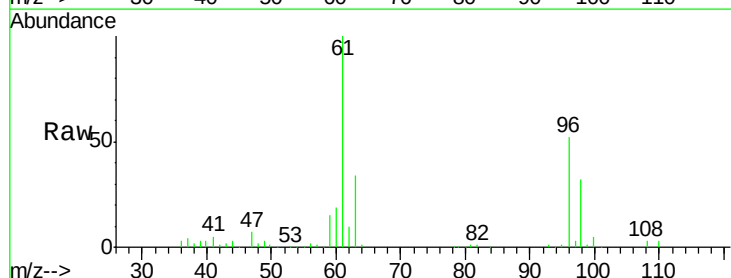
MMDadoda
1/24/2018 5:10:11 PM

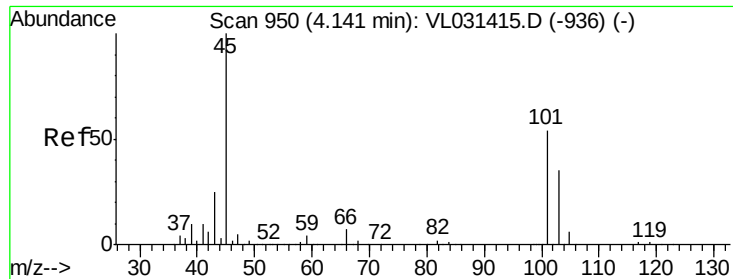


#18

1,1-Dichloroethene
Concen: 0.92 ppbv
RT: 4.48 min Scan# 1054
Delta R.T. -0.00 min
Lab File: VL031417.D
Acq: 22 Jan 2018 14:32

Tgt Ion: 96 Resp: 71794
Ion Ratio Lower Upper
96 100
61 191.5 161.6 242.4
98 61.2 49.6 74.4





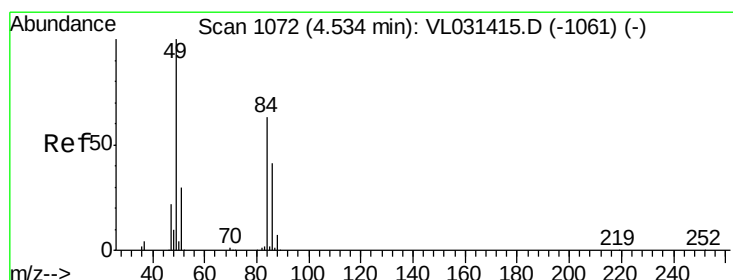
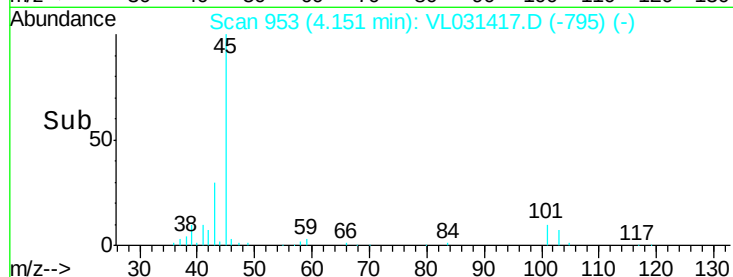
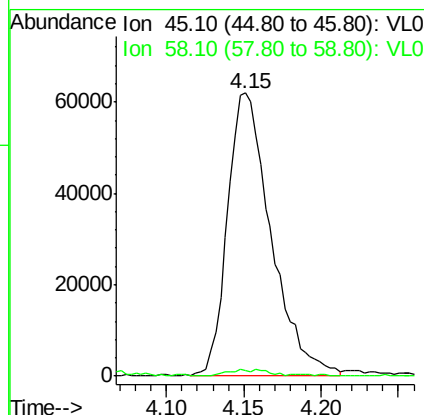
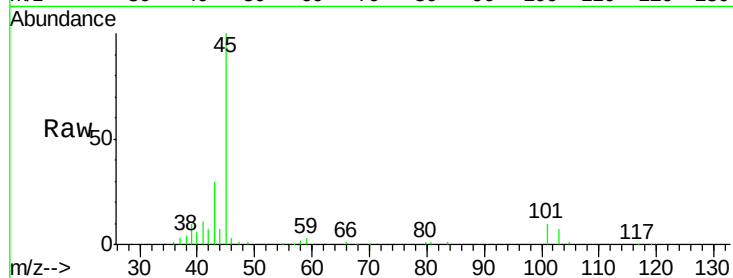
#19
Isopropyl Alcohol
Concen: 0.78 ppbv
RT: 4.15 min Scan# 953
Delta R.T. 0.01 min
Lab File: VL031417.D
Acq: 22 Jan 2018 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 45 Resp: 120268
Ion Ratio Lower Upper
45 100
58 3.0 1.0 1.4#

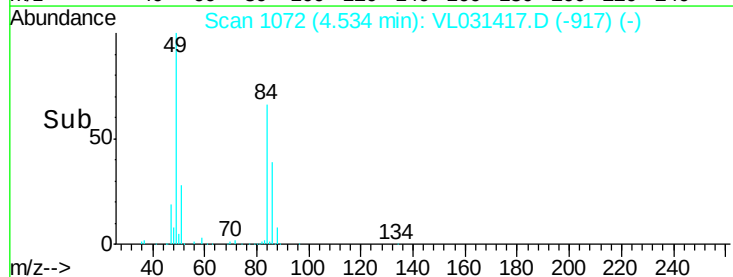
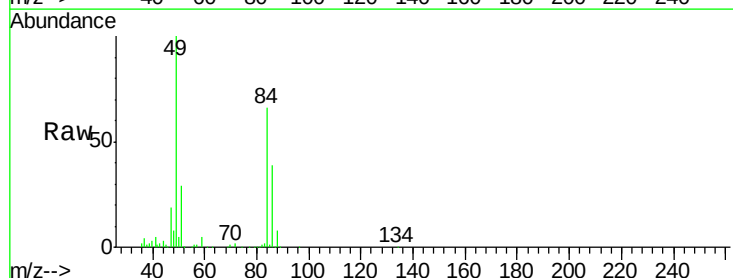
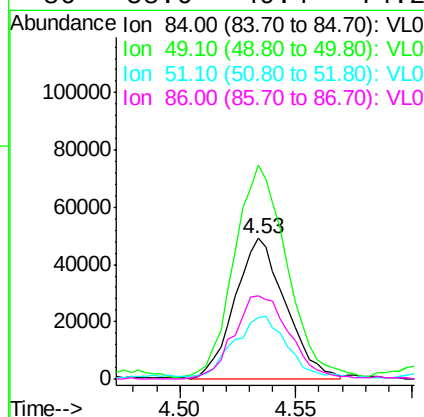
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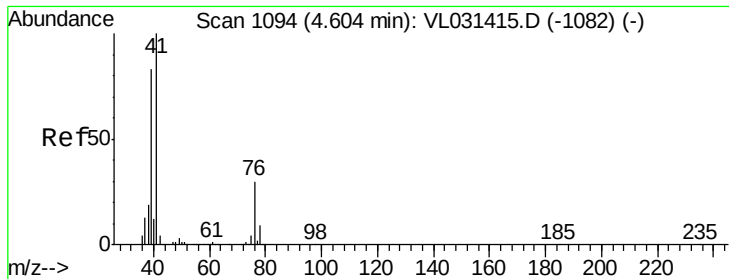
MMDadoda
1/24/2018 5:10:11 PM



#20
Methylene Chloride
Concen: 0.90 ppbv
RT: 4.53 min Scan# 1072
Delta R.T. -0.00 min
Lab File: VL031417.D
Acq: 22 Jan 2018 14:32

Tgt Ion: 84 Resp: 73629
Ion Ratio Lower Upper
84 100
49 149.8 123.4 185.0
51 42.8 35.6 53.4
86 58.6 49.4 74.2





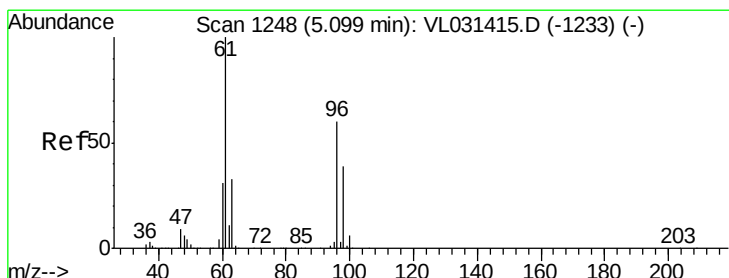
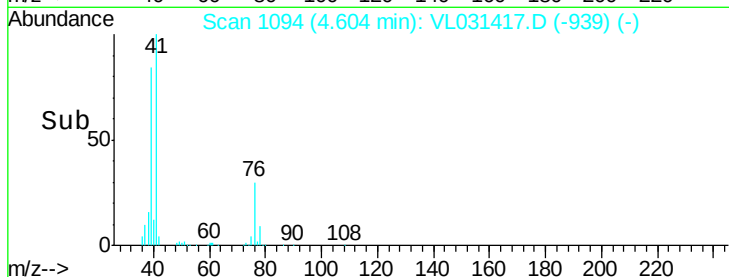
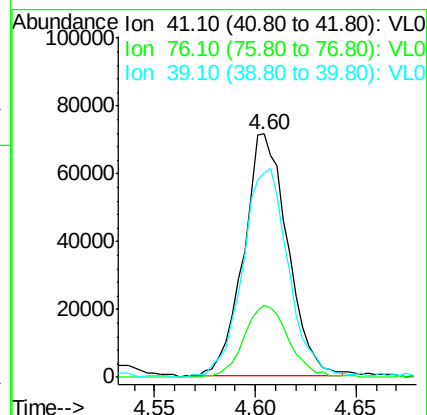
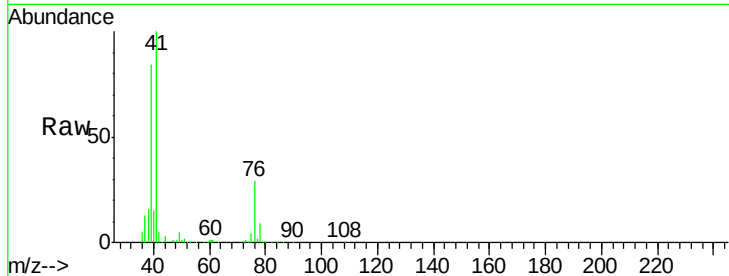
#21
Allvl Chloride
Concen: 0.89 ppbv
RT: 4.60 min Scan# 1094
Delta R.T. -0.00 min
Lab File: VL031417.D
Acq: 22 Jan 2018 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.5	24.2	36.2
39	91.8	69.8	104.8

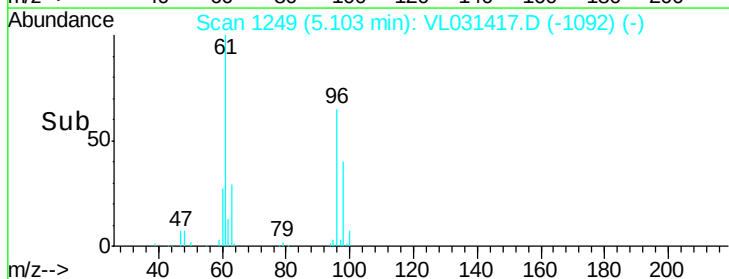
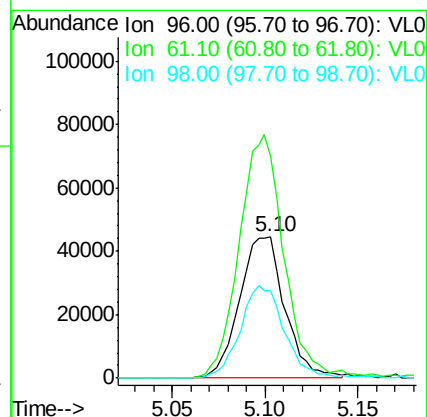
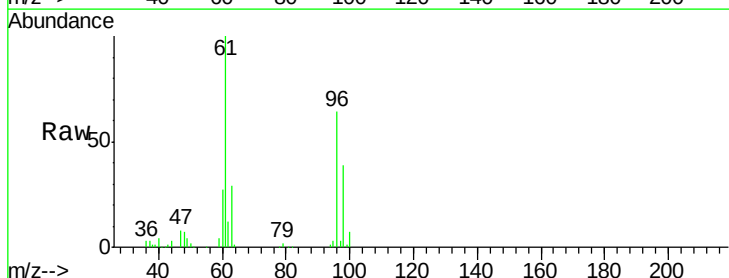
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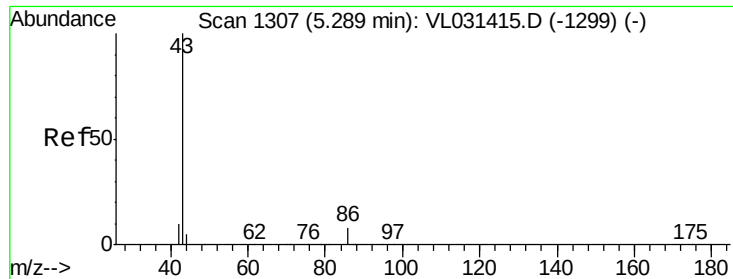
MMDadoda
1/24/2018 5:10:11 PM



#22
trans-1,2-Dichloroethene
Concen: 0.91 ppbv
RT: 5.10 min Scan# 1249
Delta R.T. 0.00 min
Lab File: VL031417.D
Acq: 22 Jan 2018 14:32

Tgt Ion	Ratio	Lower	Upper
96	100		
61	157.1	135.0	202.4
98	61.6	52.2	78.2





#23

Vinyl Acetate

Concen: 0.79 ppbv

RT: 5.29 min Scan# 1307

Delta R.T. -0.00 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

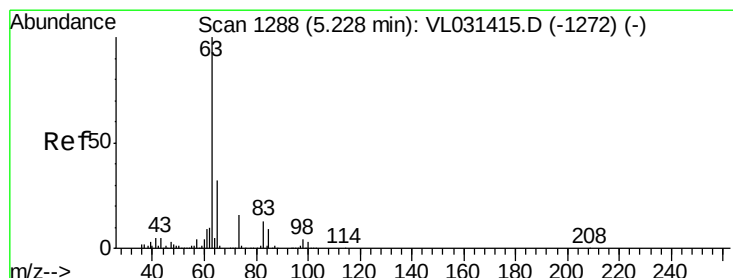
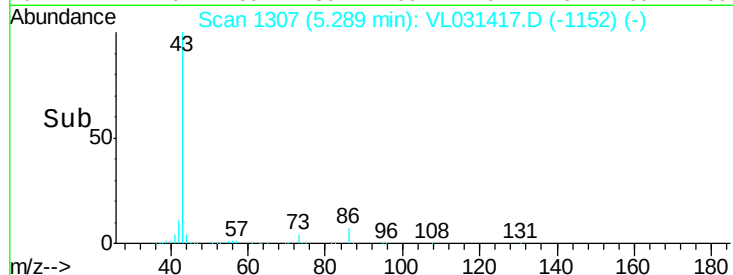
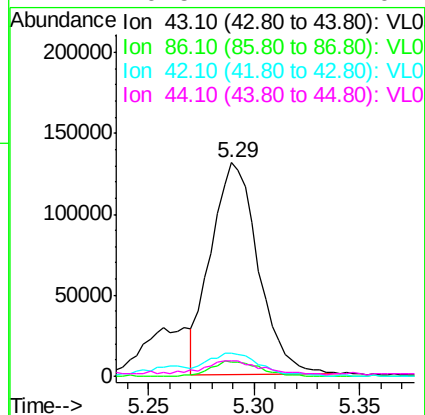
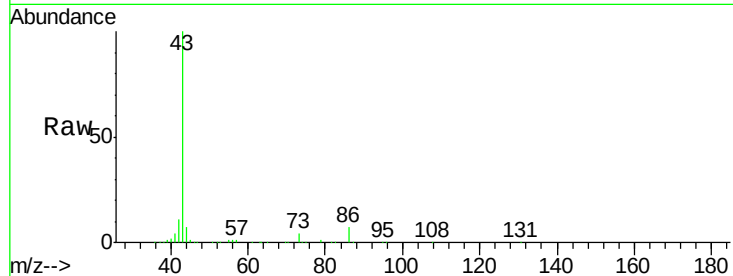
ClientSampleId :

VSTDIC001

Tot Ion	43	Resp	203515
Ion Ratio	Lower	Upper	
43	100		
86	6.4	5.6	8.4
42	10.3	8.6	12.8
44	6.5	4.2	6.4#

Manual Integrations
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MMDadoda
1/24/2018 5:10:11 PM



#24

1,1-Dichloroethane

Concen: 0.93 ppbv

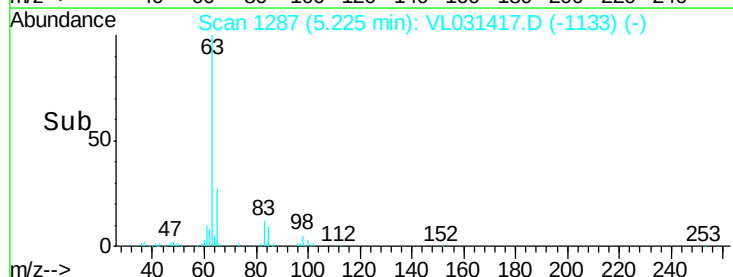
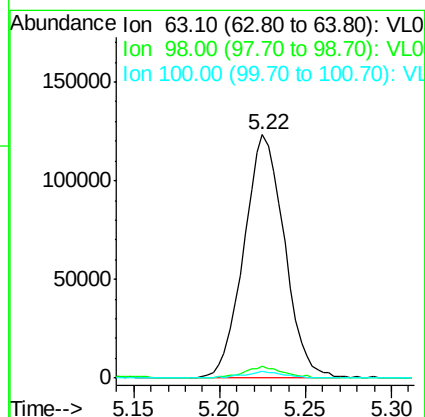
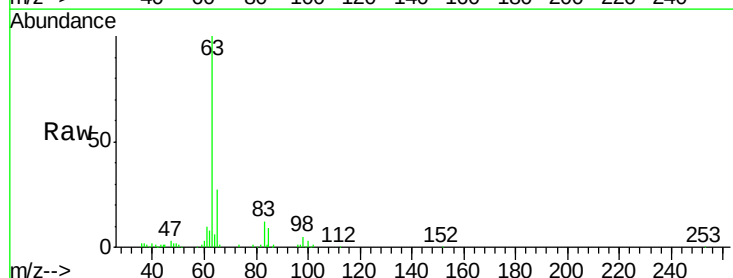
RT: 5.22 min Scan# 1287

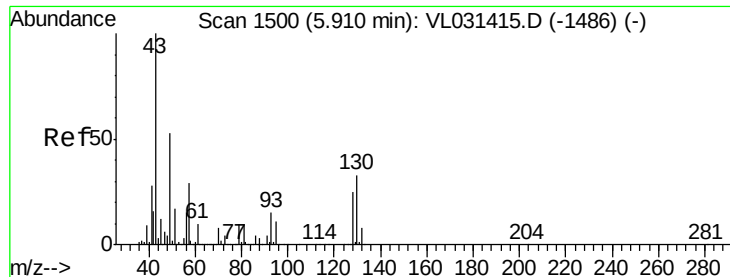
Delta R.T. -0.01 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Tgt Ion	63	Resp	202097
Ion Ratio	Lower	Upper	
63	100		
98	4.9	2.4	7.1
100	3.0	1.3	3.9





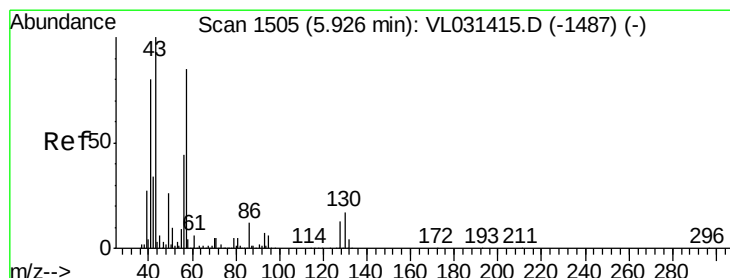
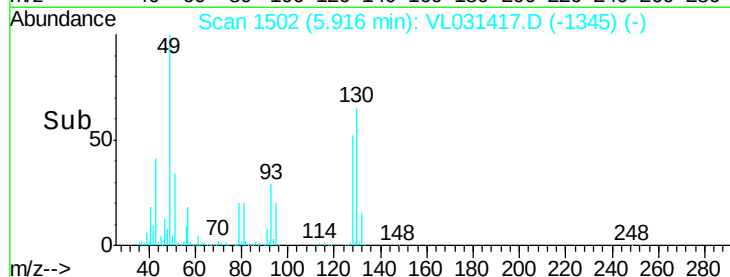
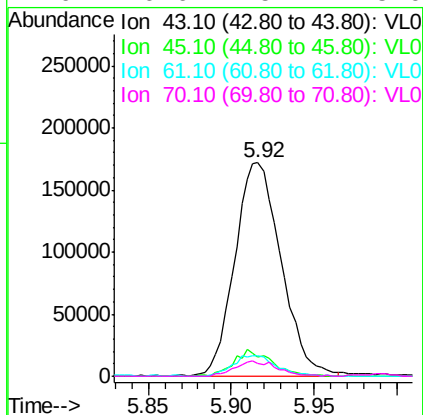
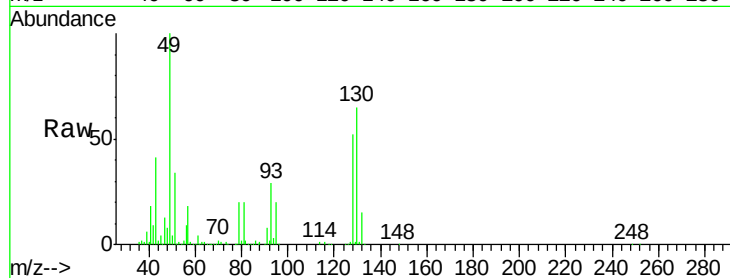
#25
Ethyl Acetate
Concen: 0.86 ppbv
RT: 5.92 min Scan# 1502
Delta R.T. 0.00 min
Lab File: VL031417.D
Acq: 22 Jan 2018 14:32

Instrument :
MSVOA_L
ClientSampled :
VSTDIC001

Tot Ion	43	Resp	331263
Ion Ratio	Lower	Upper	
43	100		
45	10.5	7.8	11.6
61	9.6	7.0	10.6
70	6.6	5.4	8.0

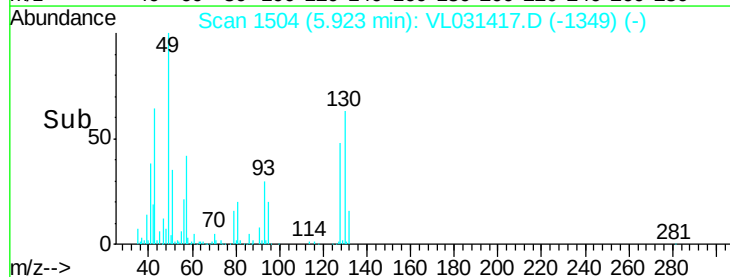
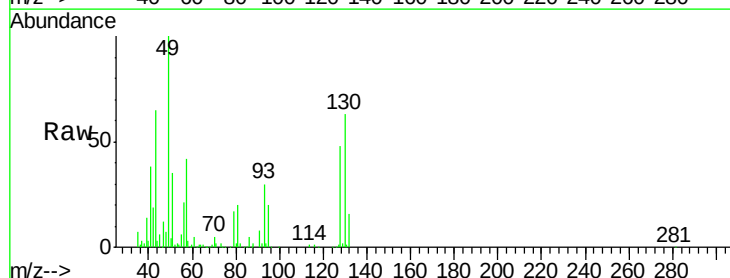
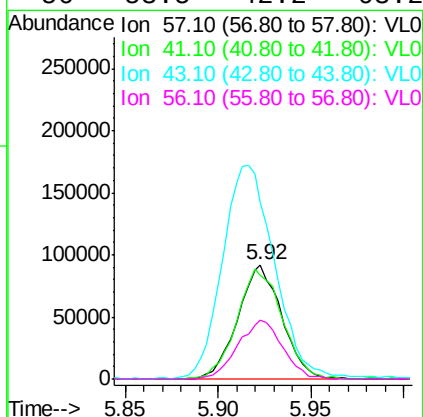
Manual Integrations
APPROVED

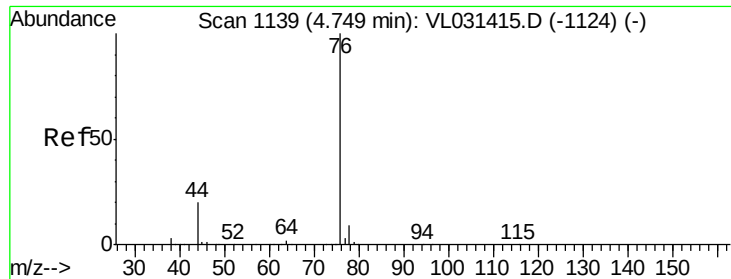
MMDadoda
1/24/2018 5:10:11 PM



#26
Hexane
Concen: 0.93 ppbv
RT: 5.92 min Scan# 1504
Delta R.T. -0.00 min
Lab File: VL031417.D
Acq: 22 Jan 2018 14:32

Tgt Ion	57	Resp	149673
Ion Ratio	Lower	Upper	
57	100		
41	102.2	77.1	115.7
43	225.9	180.7	271.1
56	53.5	42.2	63.2





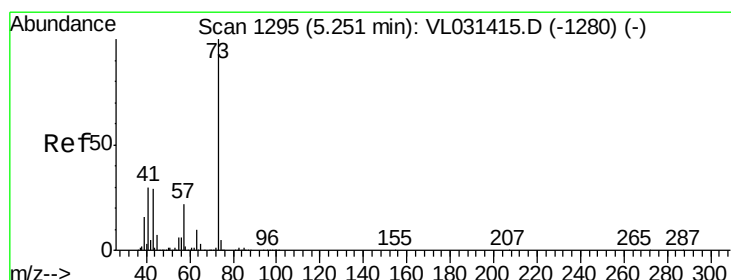
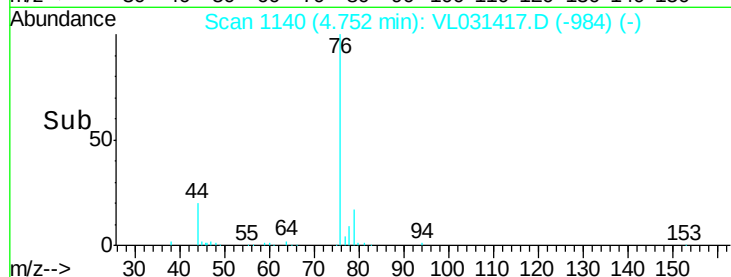
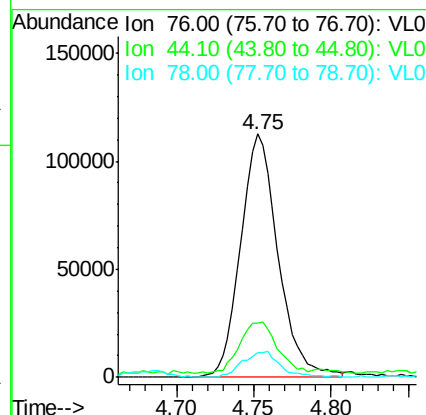
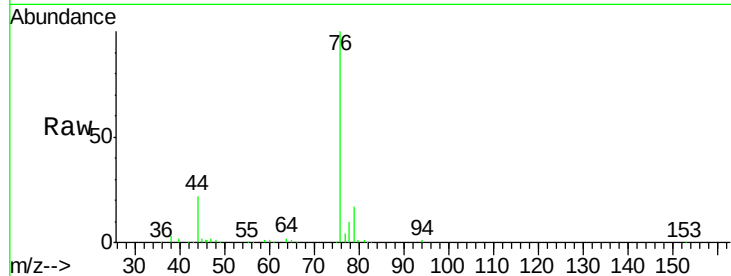
#27
Carbon Disulfide
Concen: 0.88 ppbv
RT: 4.75 min Scan# 1140
Delta R.T. 0.00 min
Lab File: VL031417.D
Acq: 22 Jan 2018 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
76	100		
44	22.0	16.7	25.1
78	10.8	7.5	11.3

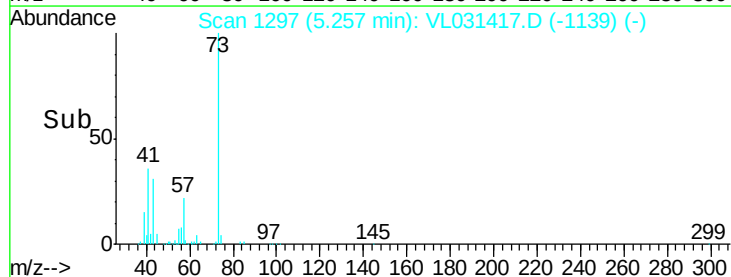
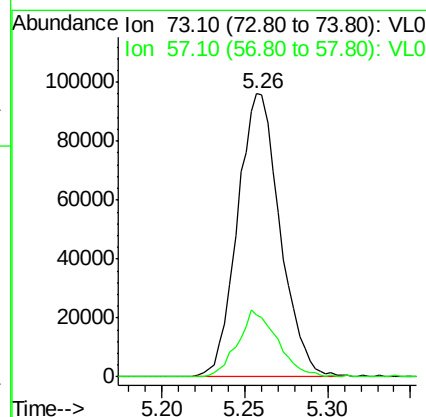
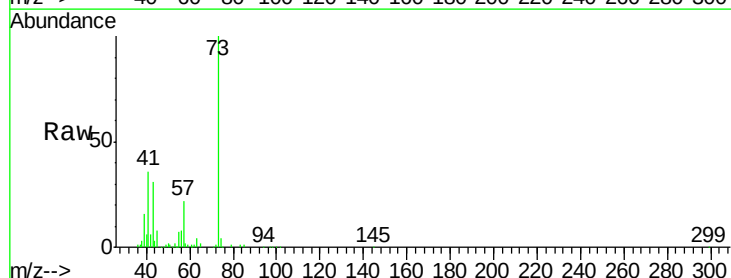
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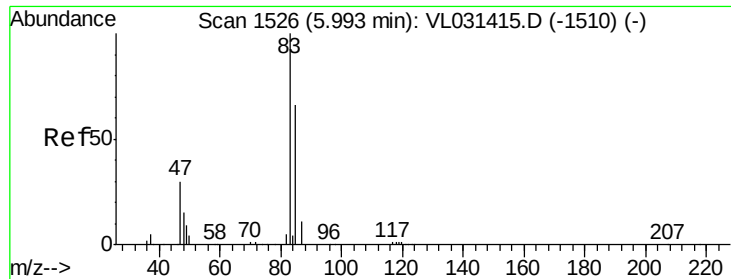
MMDadoda
1/24/2018 5:10:11 PM



#28
Methyl tert-Butyl Ether
Concen: 0.87 ppbv
RT: 5.26 min Scan# 1297
Delta R.T. 0.01 min
Lab File: VL031417.D
Acq: 22 Jan 2018 14:32

Tgt Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.5	26.3





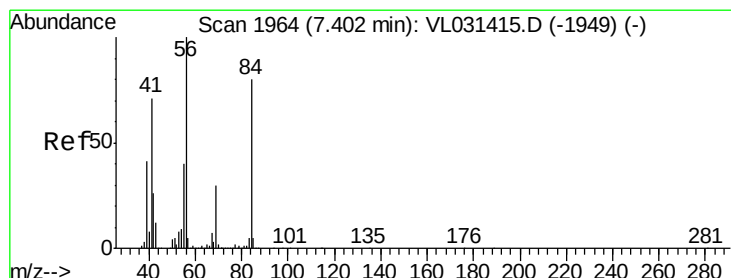
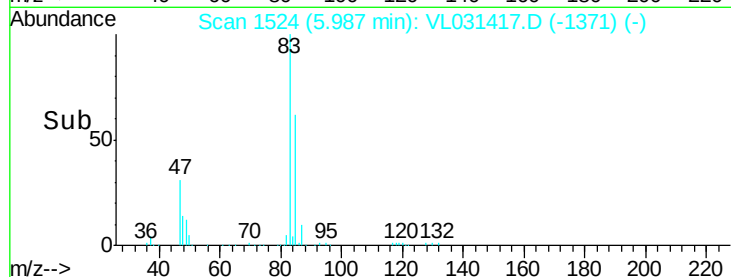
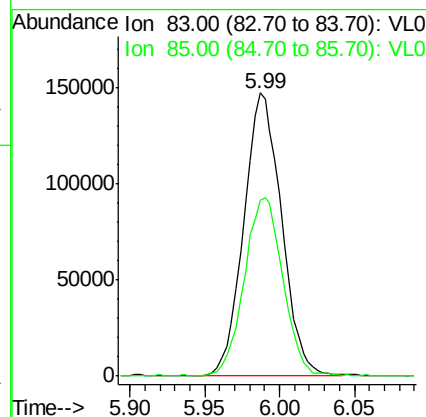
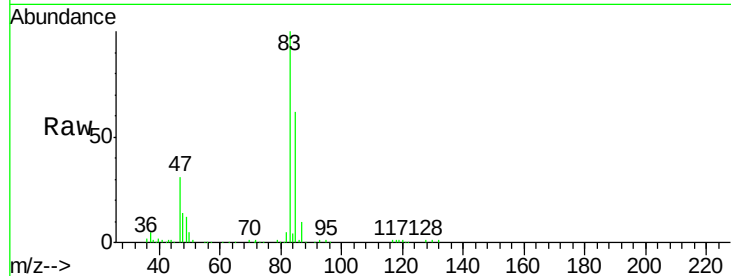
#29
Chloroform
Concen: 0.93 ppbv
RT: 5.99 min Scan# 1524
Delta R.T. -0.01 min
Lab File: VL031417.D
Acq: 22 Jan 2018 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	83	Resp	258381
Ion Ratio	100	Lower	Upper
83	100		
85	61.8	51.3	76.9

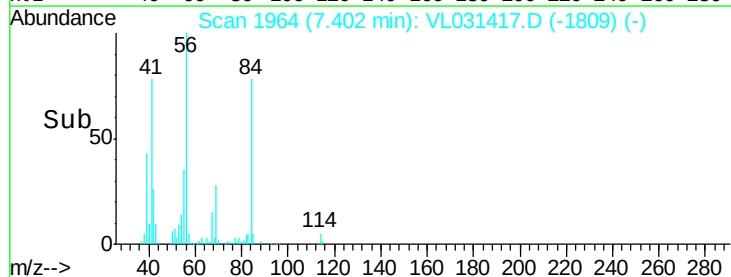
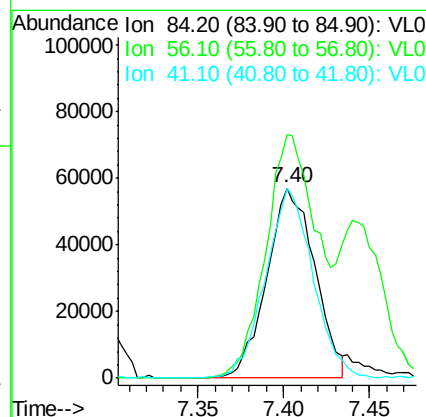
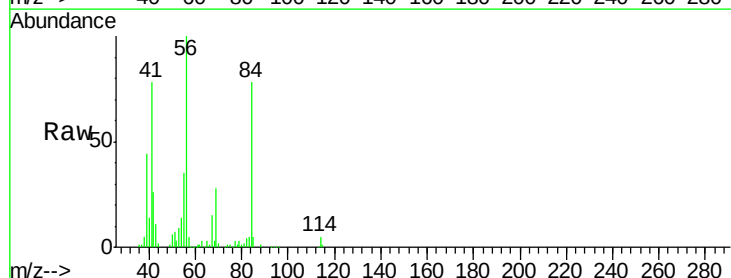
Manual Integrations
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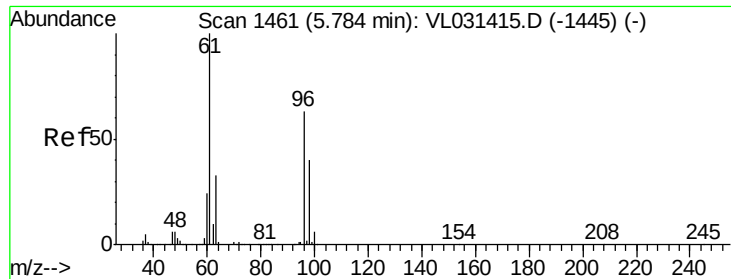
MMDadoda
1/24/2018 5:10:11 PM



#30
Cyclohexane
Concen: 0.85 ppbv
RT: 7.40 min Scan# 1964
Delta R.T. -0.00 min
Lab File: VL031417.D
Acq: 22 Jan 2018 14:32

Tgt Ion	84	Resp	110435
Ion Ratio	100	Lower	Upper
84	100		
56	134.6	109.0	163.4
41	99.7	73.3	109.9





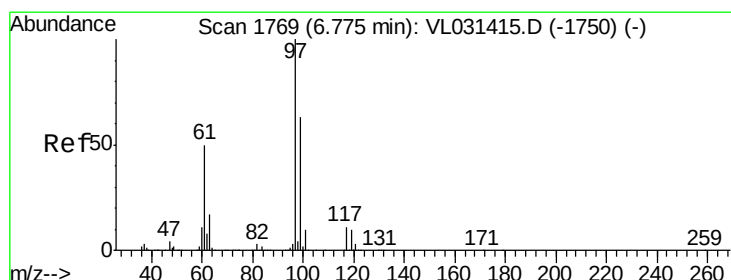
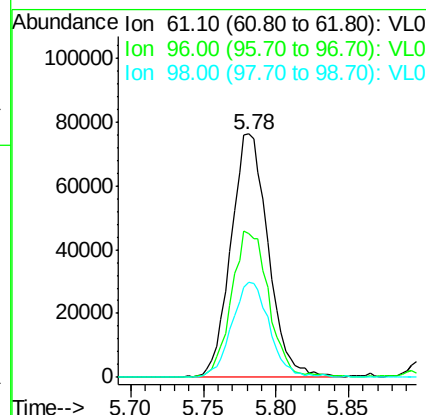
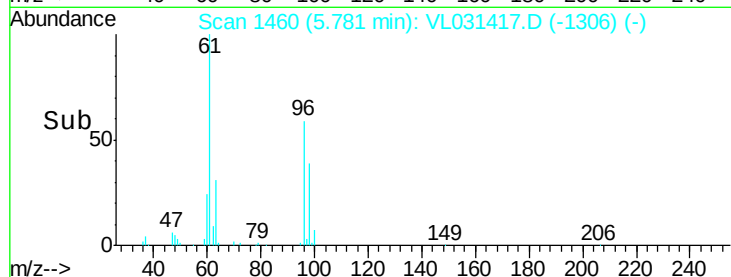
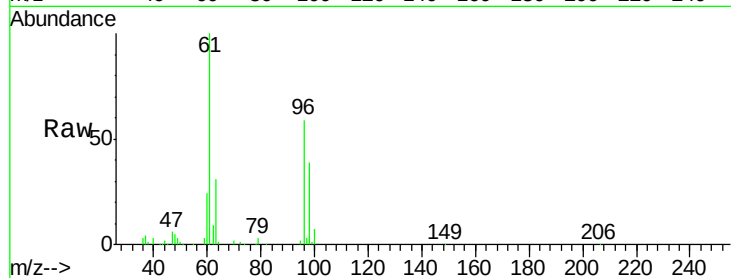
#31
 cis-1,2-Dichloroethene
 Concen: 0.87 ppbv
 RT: 5.78 min Scan# 1460
 Delta R.T. -0.01 min
 Lab File: VL031417.D
 Acq: 22 Jan 2018 14:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
61	100		
96	58.8	51.3	76.9
98	39.0	33.6	50.4

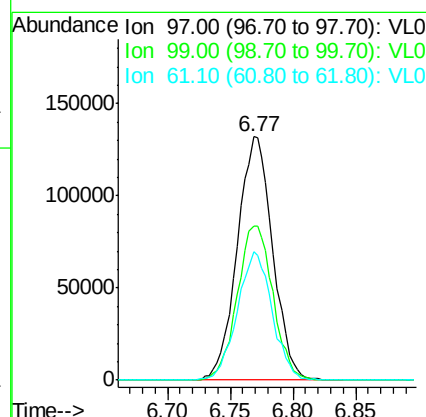
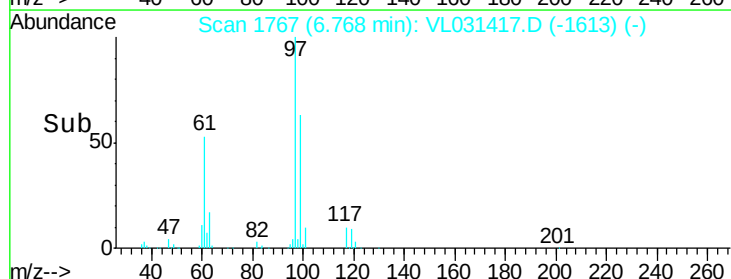
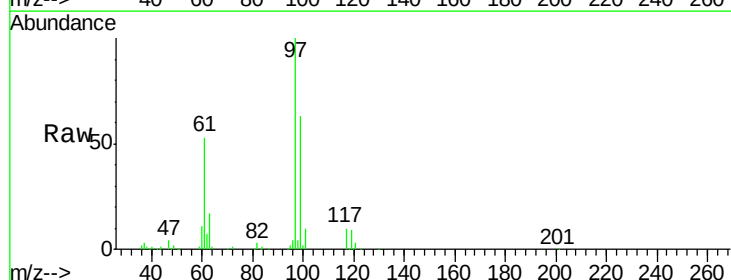
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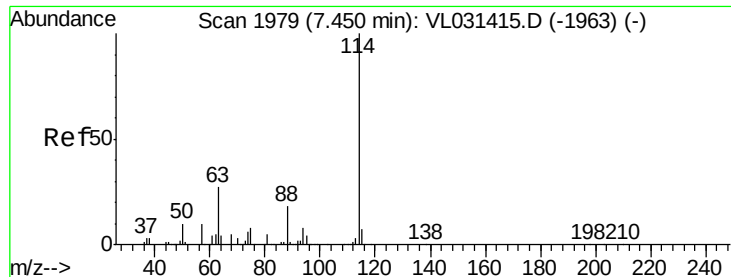
MMDadoda
 1/24/2018 5:10:11 PM



#32
 1,1,1-Trichloroethane
 Concen: 0.89 ppbv
 RT: 6.77 min Scan# 1767
 Delta R.T. -0.01 min
 Lab File: VL031417.D
 Acq: 22 Jan 2018 14:32

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.9	77.9
61	51.9	40.6	61.0





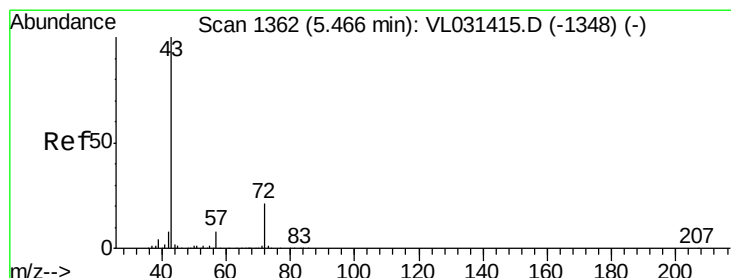
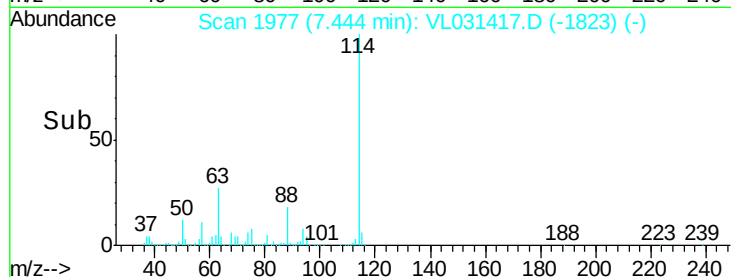
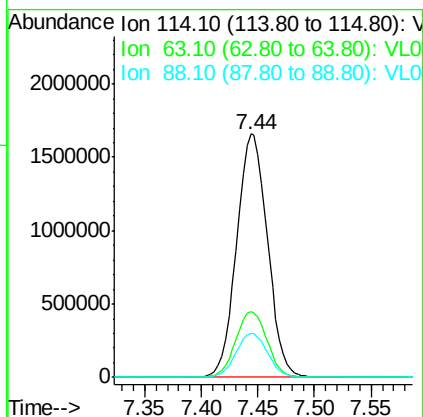
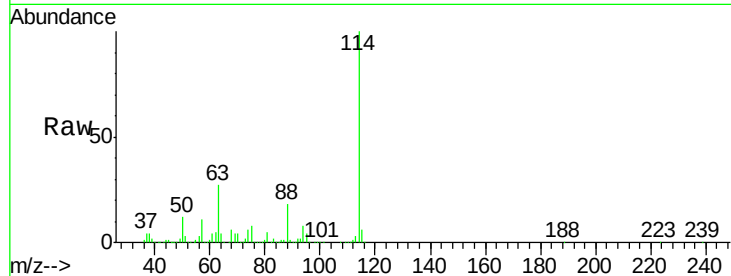
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.44 min Scan# 1977
 Delta R.T. -0.01 min
 Lab File: VL031417.D
 Acq: 22 Jan 2018 14:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.6	22.5	33.7
88	18.4	14.6	22.0

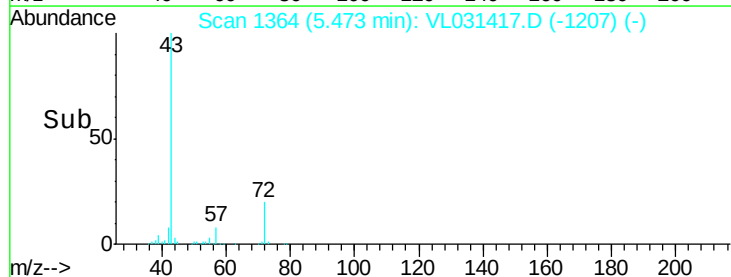
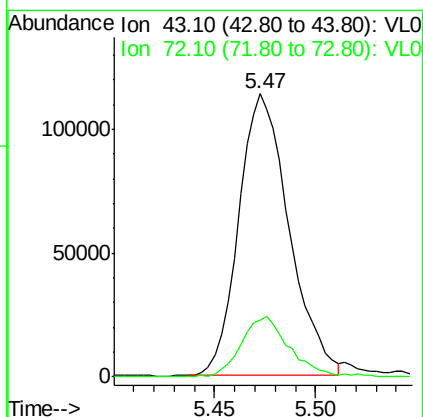
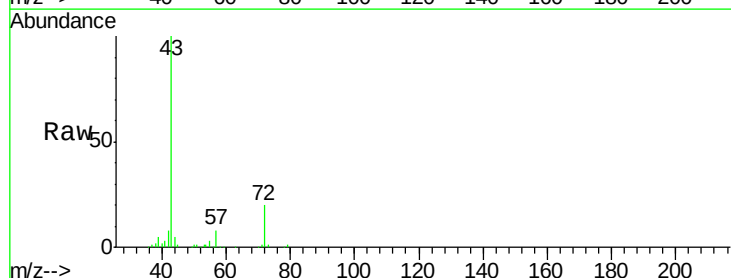
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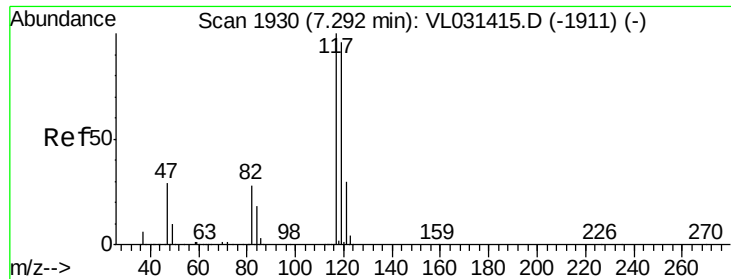
MMDadoda
 1/24/2018 5:10:11 PM



#34
 2-Butanone
 Concen: 0.76 ppbv
 RT: 5.47 min Scan# 1364
 Delta R.T. 0.00 min
 Lab File: VL031417.D
 Acq: 22 Jan 2018 14:32

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.8	16.8	25.2





#35

Carbon Tetrachloride

Concen: 0.91 ppbv

RT: 7.29 min Scan# 1928

Delta R.T. -0.01 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

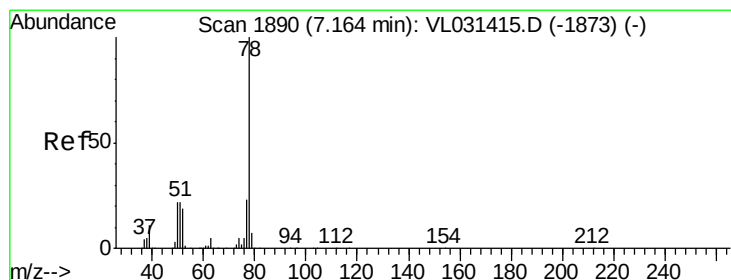
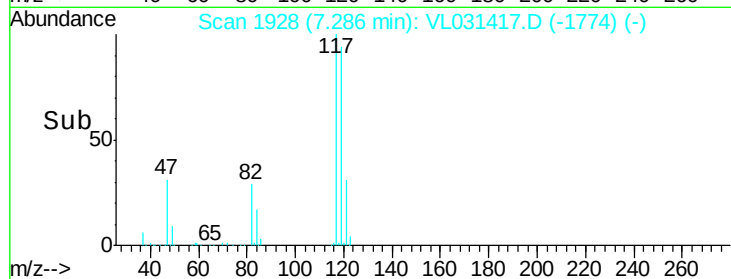
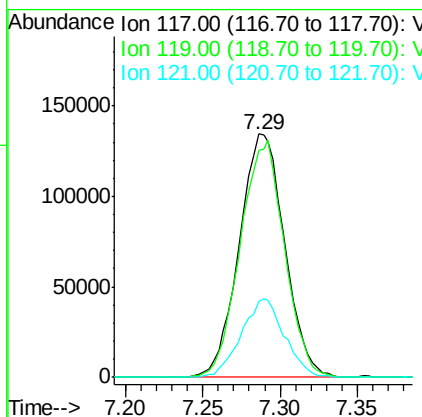
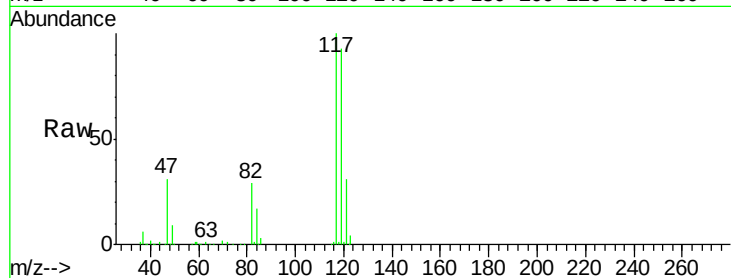
ClientSampleId :

VSTDIC001

Tot Ion:	117	Resp:	274080
Ion Ratio	Lower	Upper	
117	100		
119	93.1	74.2	111.4
121	31.0	24.2	36.4

Manual Integrations
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1/24/2018 5:10:11 PM



#36

Benzene

Concen: 0.86 ppbv

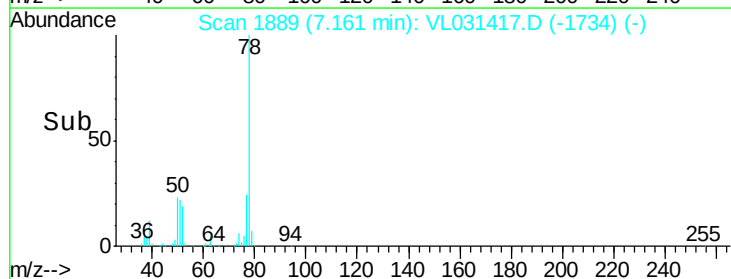
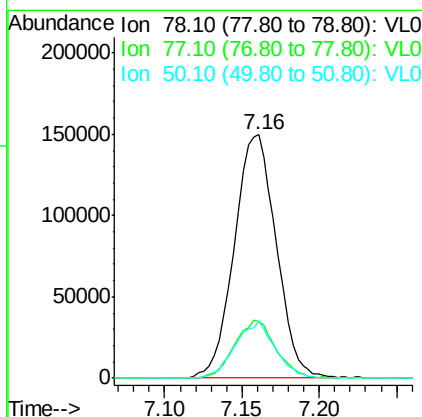
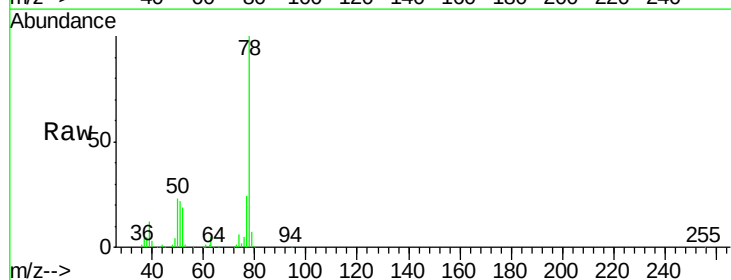
RT: 7.16 min Scan# 1889

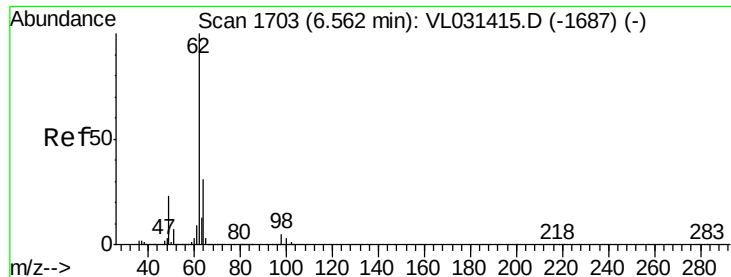
Delta R.T. -0.00 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Tgt Ion:	78	Resp:	280666
Ion Ratio	Lower	Upper	
78	100		
77	23.6	18.7	28.1
50	23.1	18.4	27.6





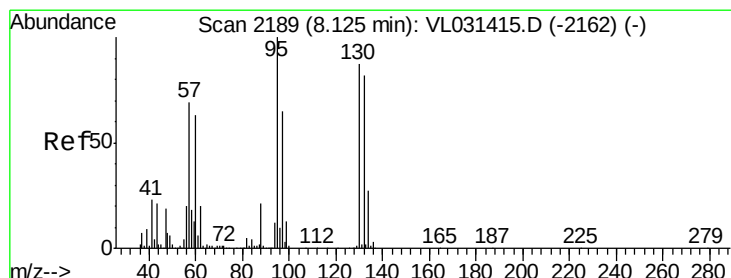
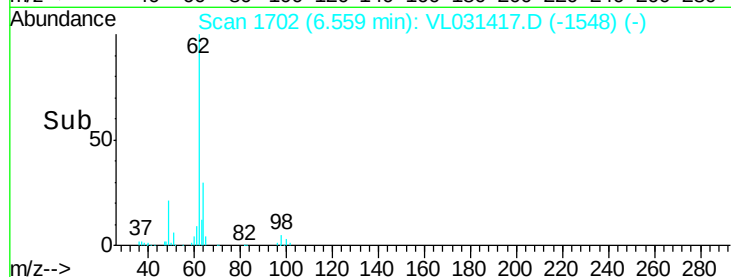
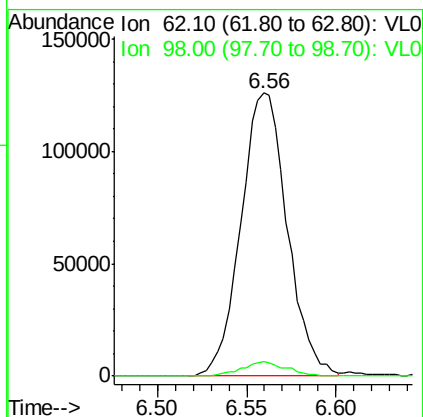
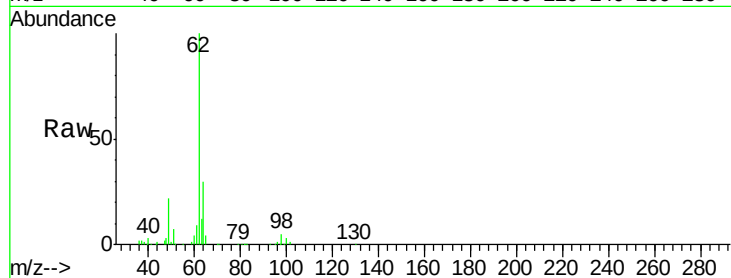
#37
 1,2-Dichloroethane
 Concen: 0.95 ppbv
 RT: 6.56 min Scan# 1702
 Delta R.T. -0.01 min
 Lab File: VL031417.D
 Acq: 22 Jan 2018 14:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp Lower	Upper
62	100		
98	5.0	4.1	6.1

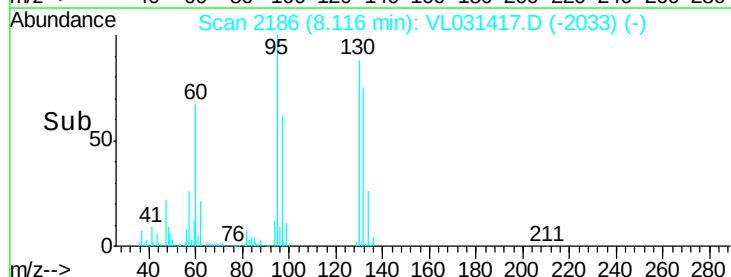
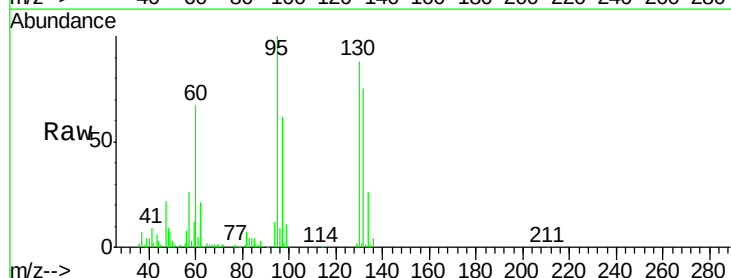
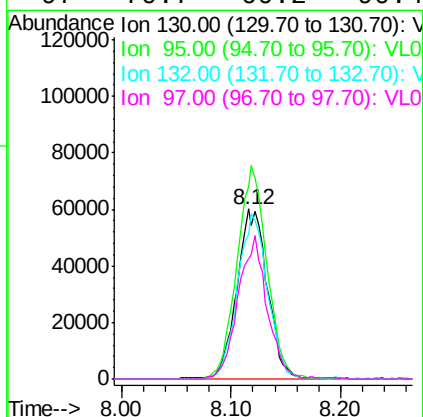
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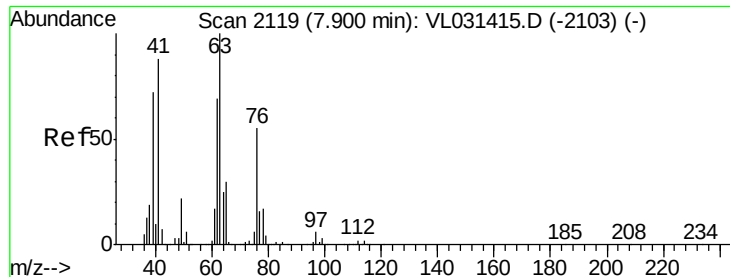
MMDadoda
 1/24/2018 5:10:11 PM



#38
 Trichloroethene
 Concen: 0.86 ppbv m
 RT: 8.12 min Scan# 2186
 Delta R.T. -0.01 min
 Lab File: VL031417.D
 Acq: 22 Jan 2018 14:32

Tgt Ion	Ratio	Resp Lower	Upper
130	100		
95	113.2	92.9	139.3
132	85.4	74.9	112.3
97	70.7	60.2	90.4





#39

1,2-Dichloropropane

Concen: 0.90 ppbv

RT: 7.90 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

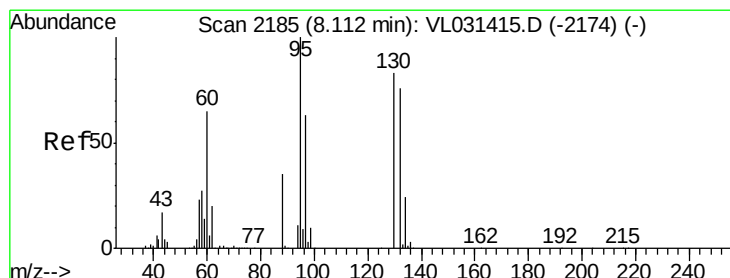
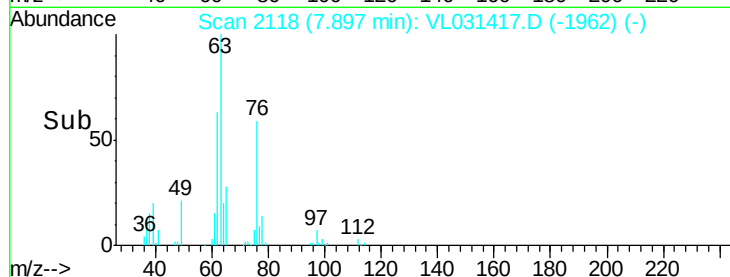
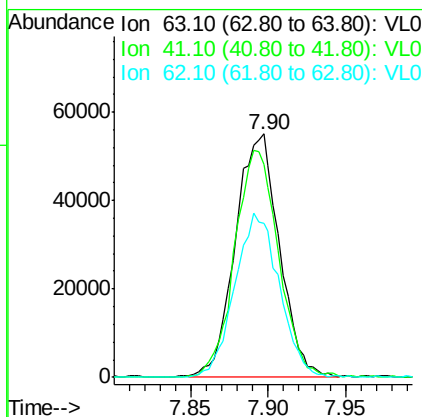
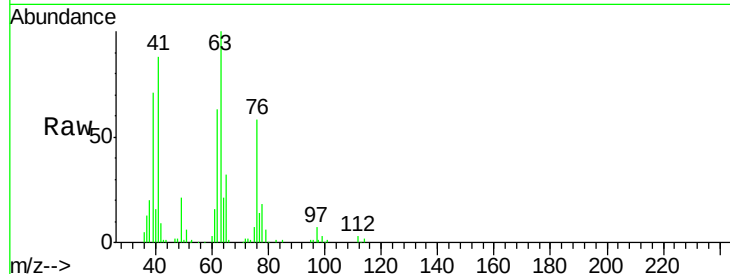
ClientSampleId :

VSTDIC001

Tot Ion:	63	Resp:	109003
Ion	Ratio	Lower	Upper
63	100		
41	87.1	67.6	101.4
62	63.1	51.8	77.6

Manual Integrations
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1/24/2018 5:10:11 PM



#40

1,4-Dioxane

Concen: 0.73 ppbv

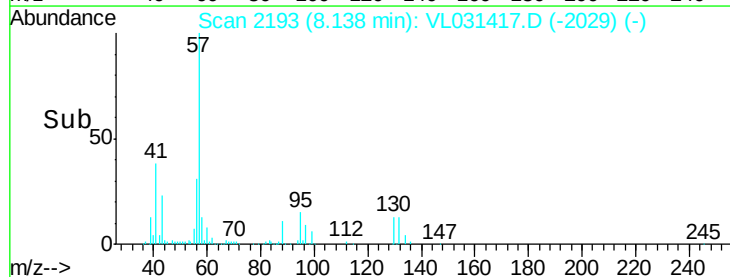
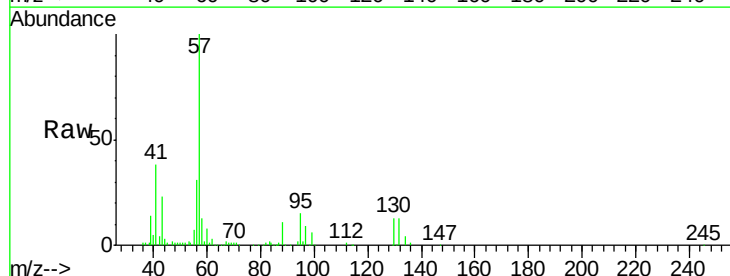
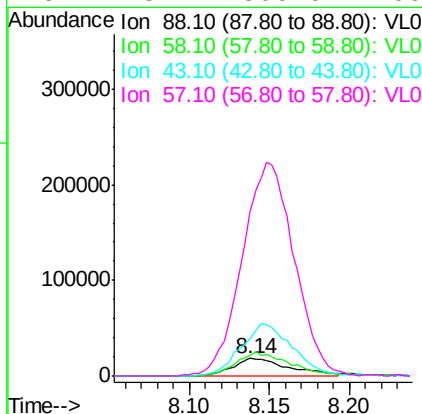
RT: 8.14 min Scan# 2193

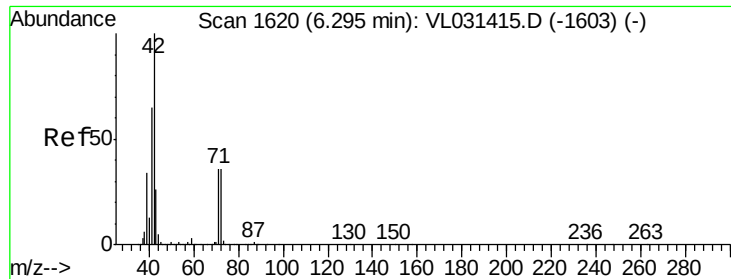
Delta R.T. 0.03 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Tgt Ion:	88	Resp:	44033
Ion	Ratio	Lower	Upper
88	100		
58	137.6	98.2	147.2
43	278.2	197.3	295.9
57	1134.2	806.0	1209.0





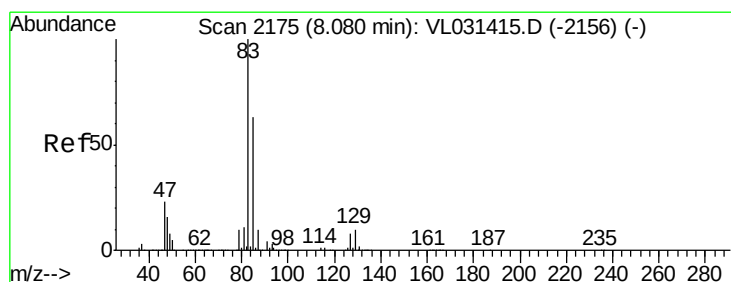
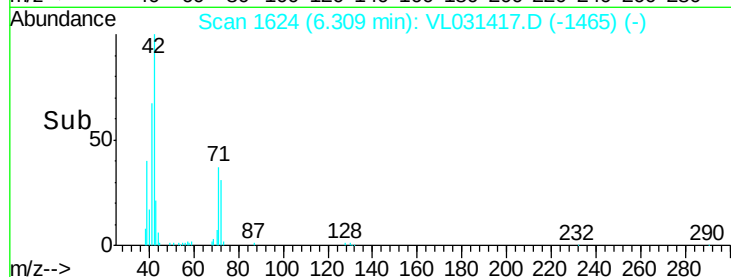
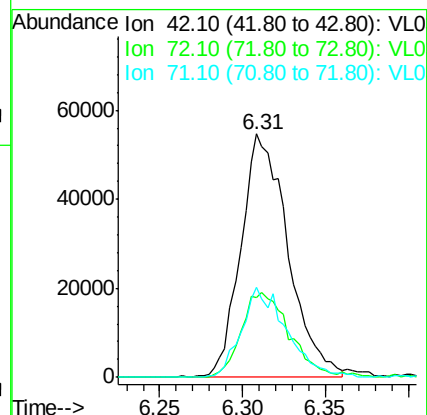
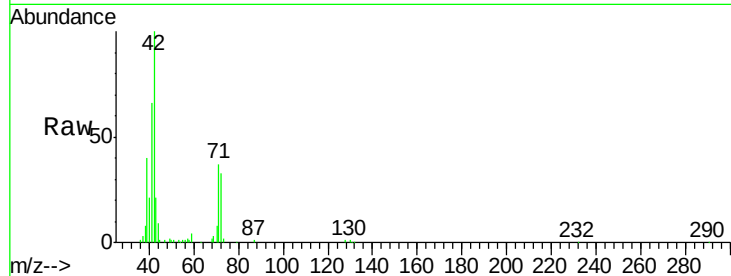
#41
Tetrahydrofuran
Concen: 0.81 ppbv
RT: 6.31 min Scan# 1624
Delta R.T. 0.01 min
Lab File: VL031417.D
Acq: 22 Jan 2018 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.6	30.4	45.6
71	35.8	29.2	43.8

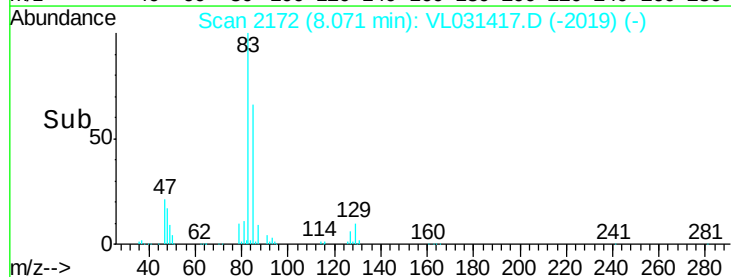
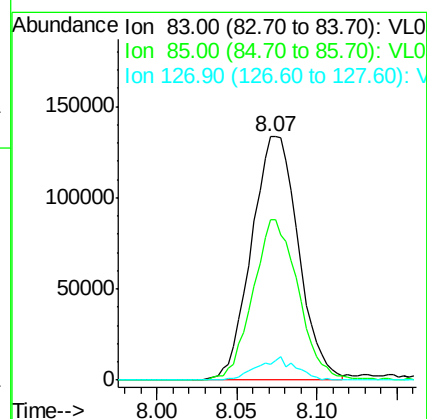
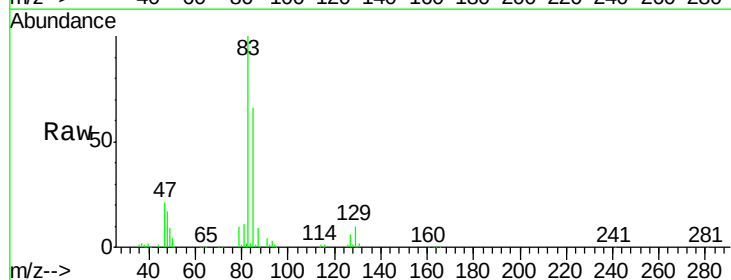
Manual Integrations
APPROVED

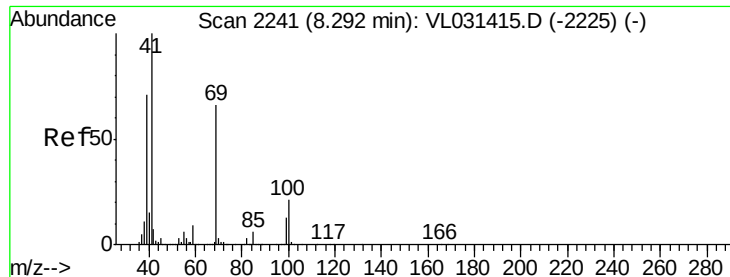
MMDadoda
1/24/2018 5:10:11 PM



#42
Bromodichloromethane
Concen: 0.90 ppbv
RT: 8.07 min Scan# 2172
Delta R.T. -0.01 min
Lab File: VL031417.D
Acq: 22 Jan 2018 14:32

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.1	52.1	78.1
127	6.3	6.6	10.0#





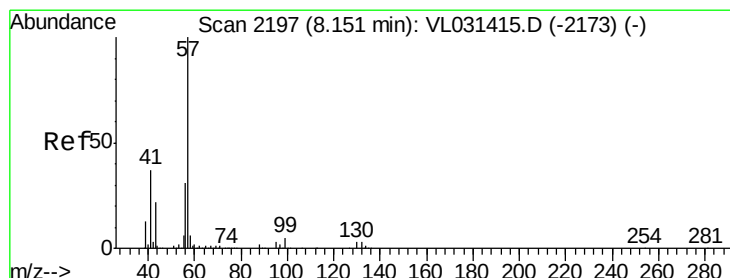
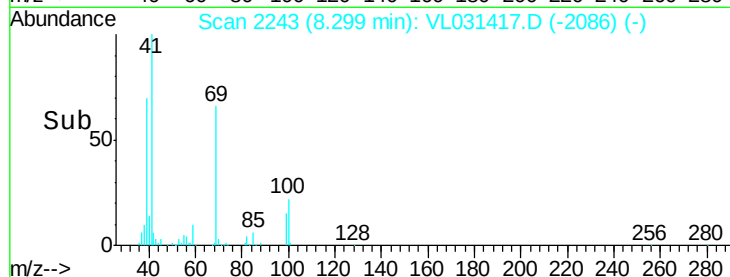
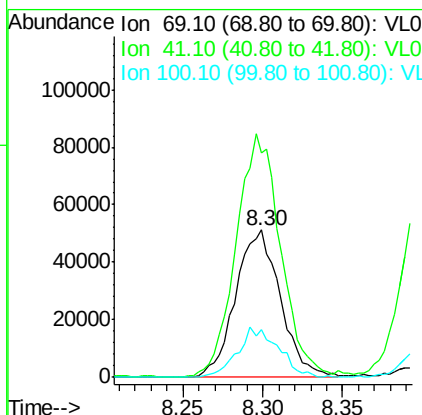
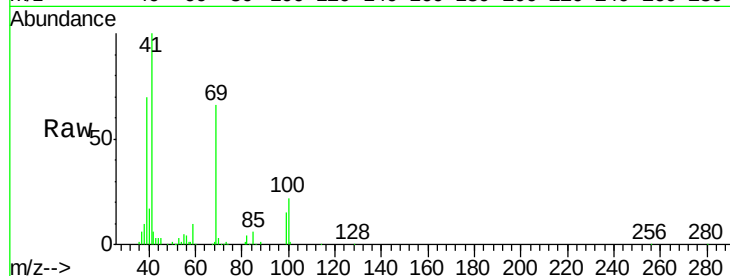
#43
Methyl Methacrylate
Concen: 0.80 ppbv
RT: 8.30 min Scan# 2243
Delta R.T. 0.00 min
Lab File: VL031417.D
Acq: 22 Jan 2018 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	164.5	127.0	190.6	
100	31.0	24.6	37.0	

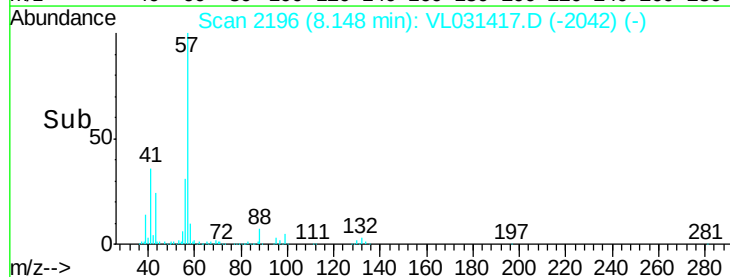
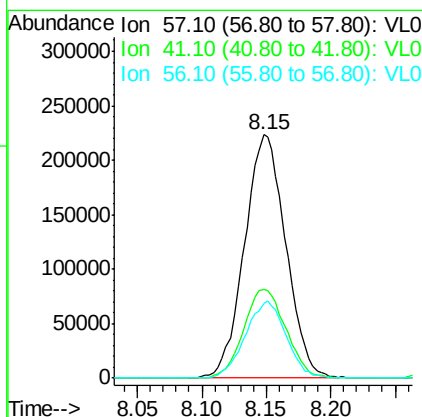
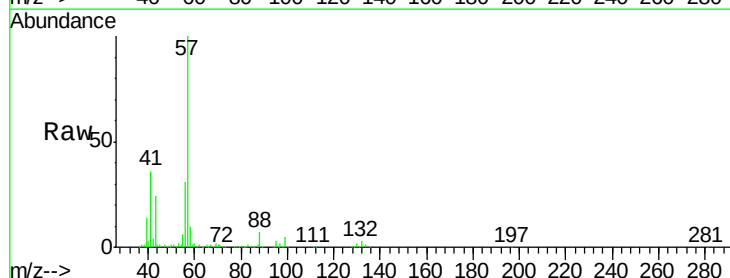
Manual Integrations
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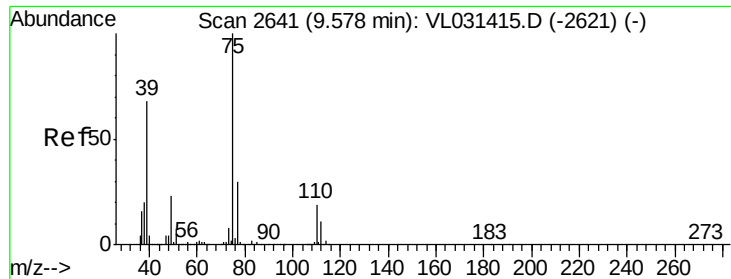
MMDadoda
1/24/2018 5:10:11 PM



#44
2,2,4-Trimethylpentane
Concen: 0.91 ppbv
RT: 8.15 min Scan# 2196
Delta R.T. -0.01 min
Lab File: VL031417.D
Acq: 22 Jan 2018 14:32

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	37.8	28.8	43.2	
56	31.3	24.6	37.0	





#45

t-1,3-Dichloropropene

Concen: 0.81 ppbv

RT: 9.58 min Scan# 2641

Delta R.T. -0.00 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 75 Resp: 136762

Ion Ratio Lower Upper

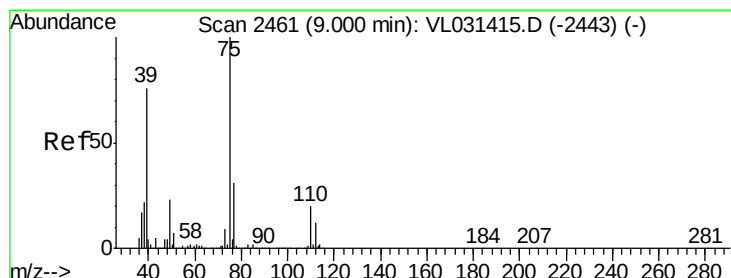
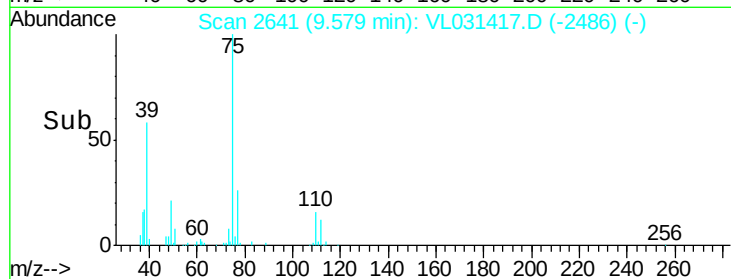
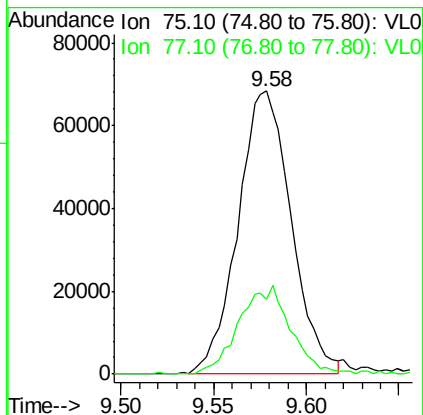
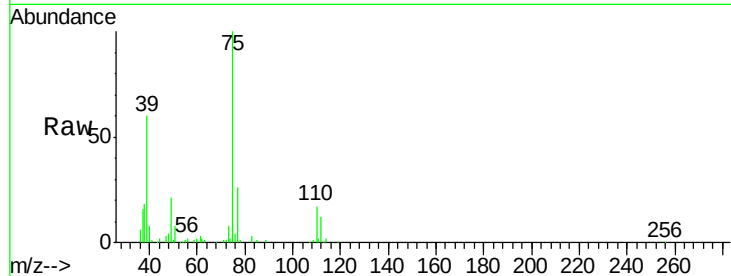
75 100

77 26.4 25.3 37.9

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#46

cis-1,3-Dichloropropene

Concen: 0.81 ppbv

RT: 9.00 min Scan# 2460

Delta R.T. -0.01 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

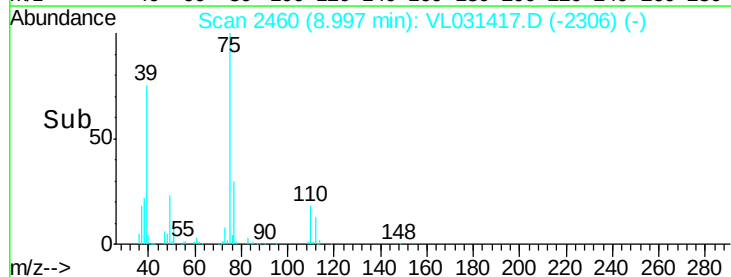
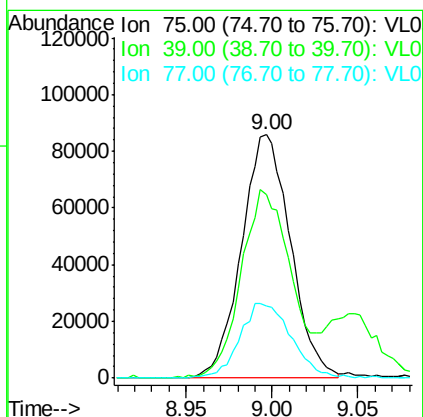
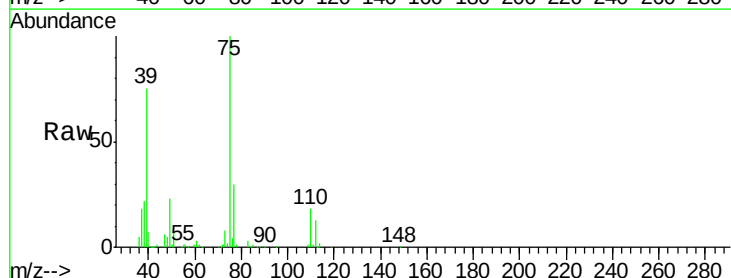
Tgt Ion: 75 Resp: 168582

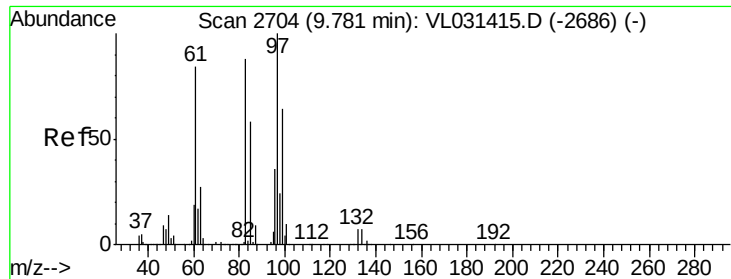
Ion Ratio Lower Upper

75 100

39 74.2 59.4 89.0

77 29.7 25.0 37.4





#47

1,1,2-Trichloroethane

Concen: 0.90 ppbv

RT: 9.78 min Scan# 2703

Delta R.T. -0.01 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 97 Resp: 127762

Ion Ratio Lower Upper

97 100

83 90.5 71.4 107.2

85 54.4 46.2 69.2

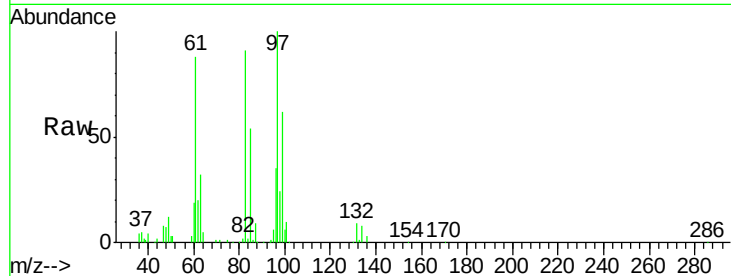
99 62.1 52.2 78.2

Manual Integrations

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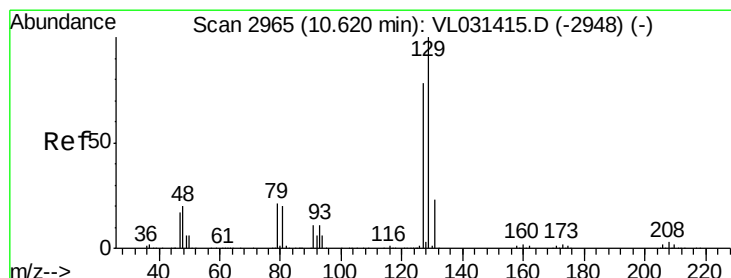
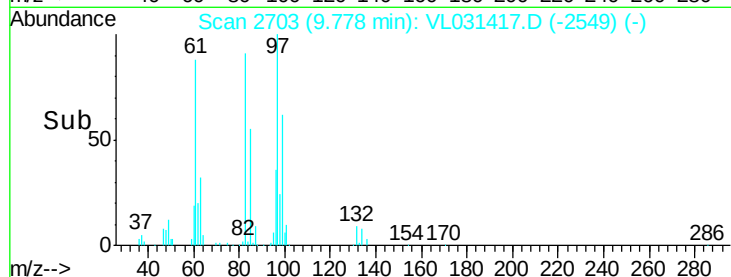
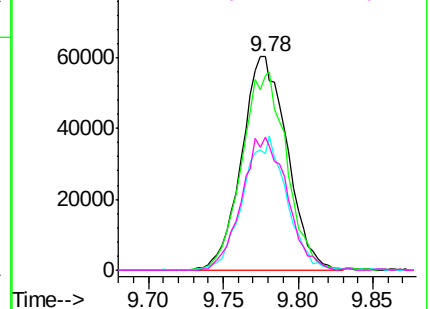


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 0.87 ppbv

RT: 10.62 min Scan# 2965

Delta R.T. -0.00 min

Lab File: VL031417.D

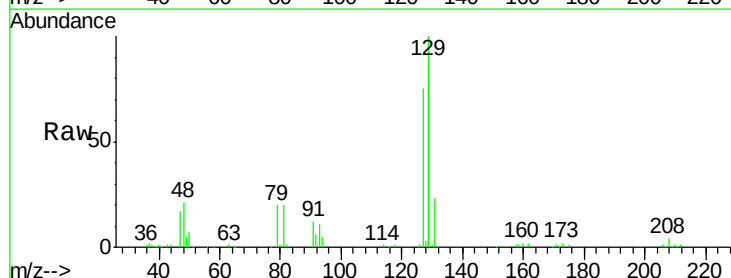
Acq: 22 Jan 2018 14:32

Tgt Ion: 129 Resp: 218925

Ion Ratio Lower Upper

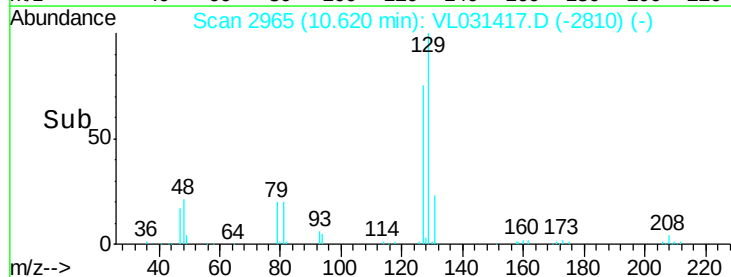
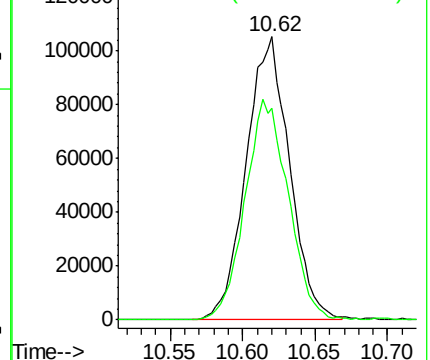
129 100

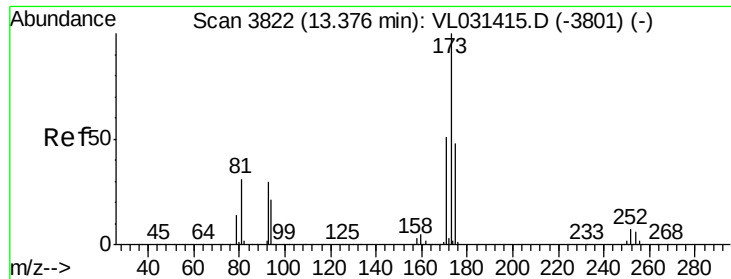
127 77.6 39.4 118.1



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





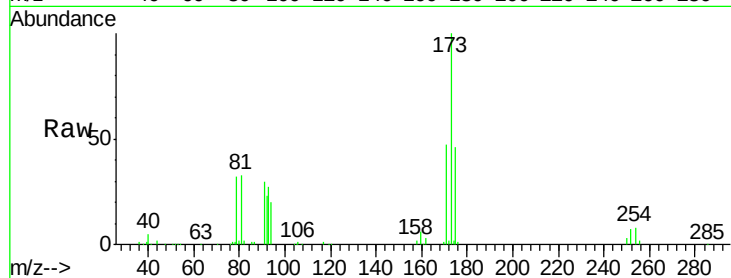
#49
Bromoform
Concen: 0.84 ppbv
RT: 13.37 min Scan# 3821
Delta R.T. -0.01 min
Lab File: VL031417.D
Acq: 22 Jan 2018 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

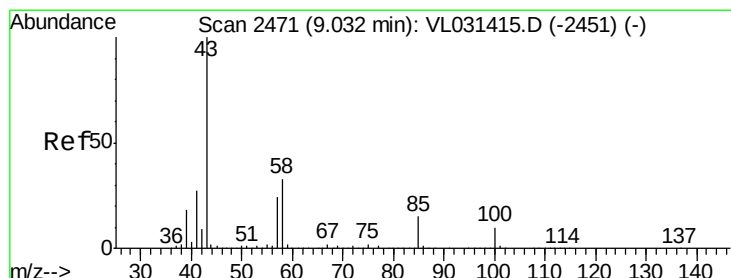
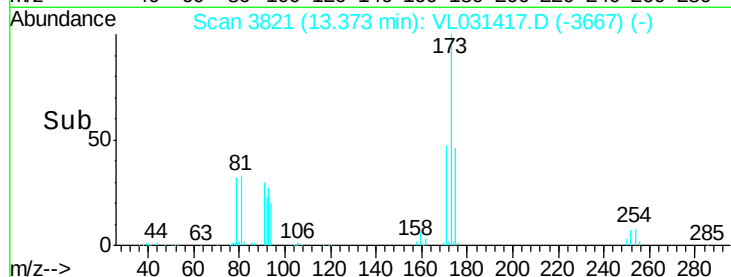
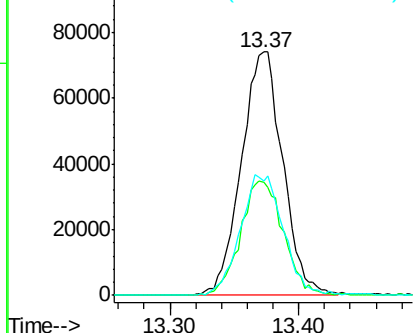
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.6	39.0	58.4
171	51.7	42.0	63.0

Manual Integrations
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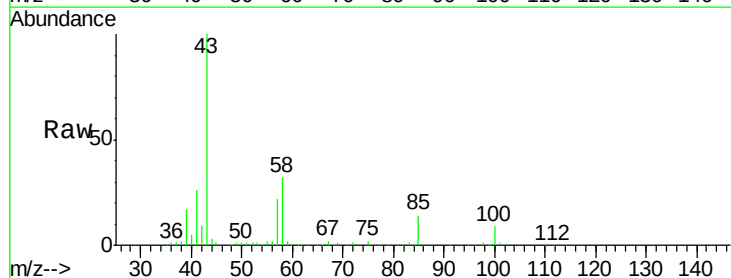


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

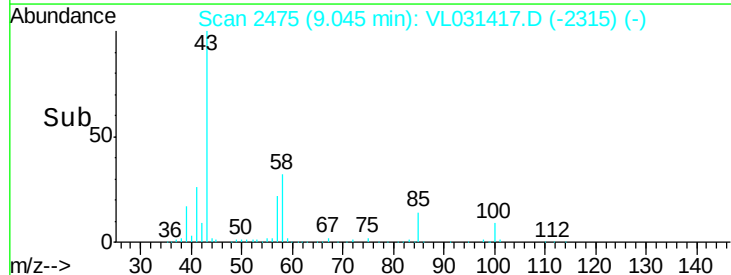
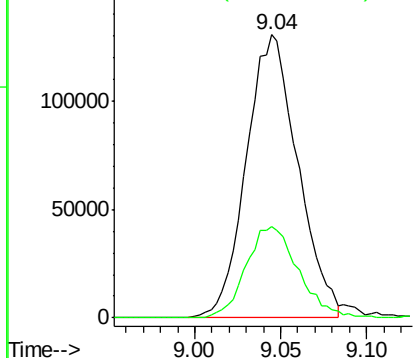


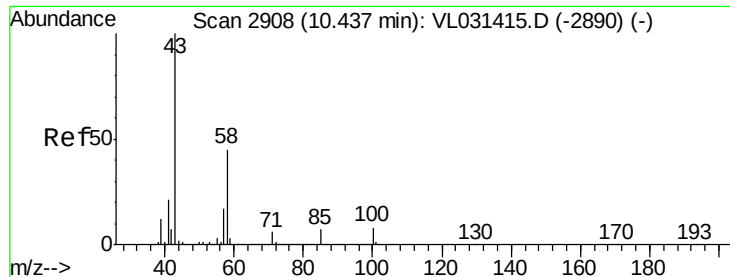
#50
4-Methyl-2-Pentanone
Concen: 0.78 ppbv
RT: 9.04 min Scan# 2475
Delta R.T. 0.01 min
Lab File: VL031417.D
Acq: 22 Jan 2018 14:32

Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.9	27.1	40.7



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





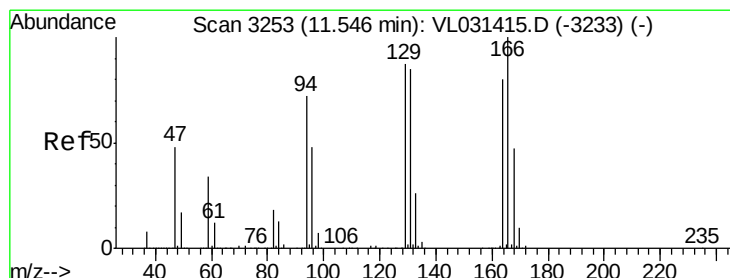
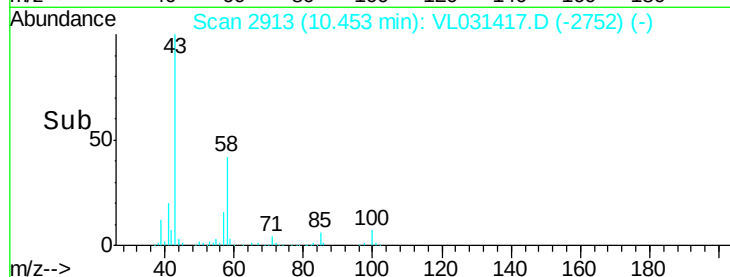
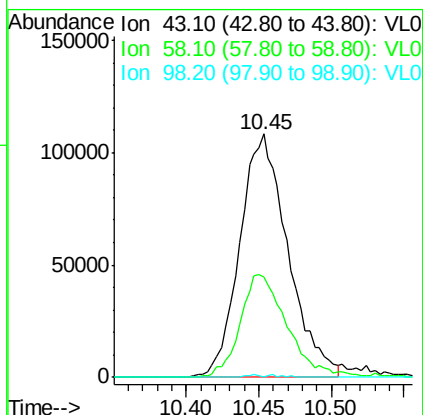
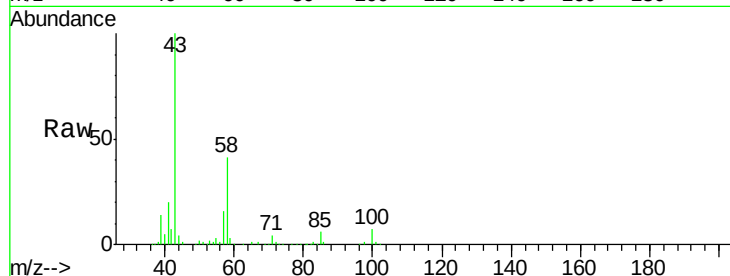
#51
2-Hexanone
Concen: 0.71 ppbv
RT: 10.45 min Scan# 2913
Delta R.T. 0.02 min
Lab File: VL031417.D
Acq: 22 Jan 2018 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
43	100		
58	41.9	36.2	54.4
98	0.9	0.1	0.1#

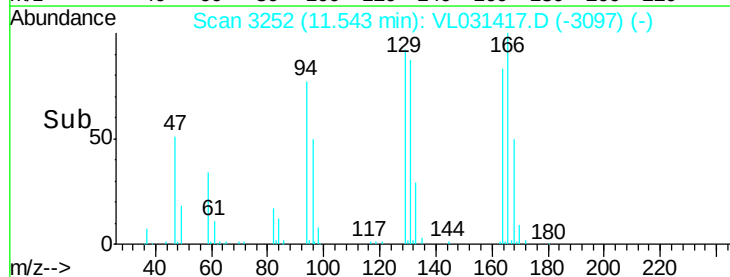
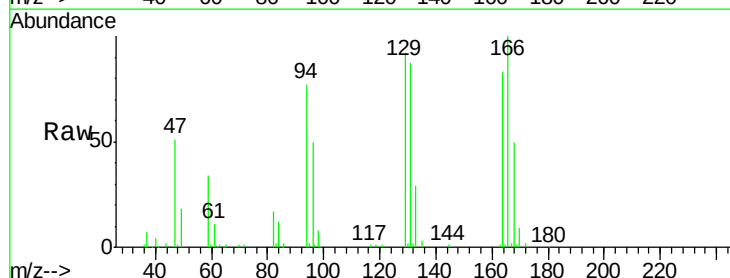
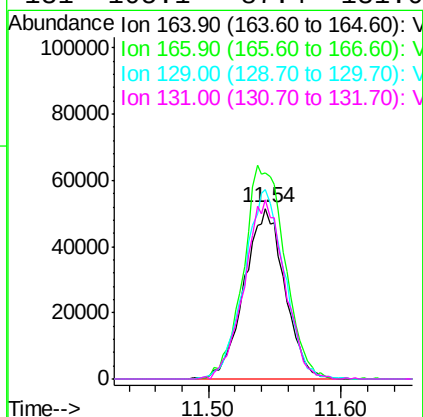
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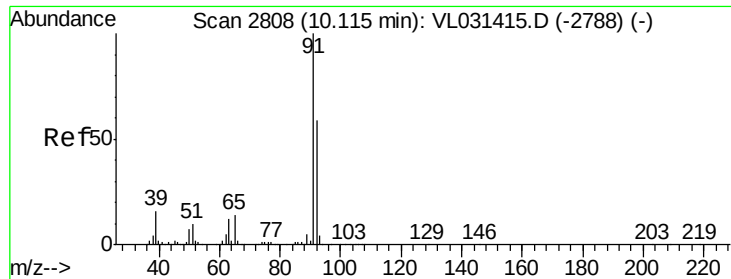
MMDadoda
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#52
Tetrachloroethene
Concen: 0.84 ppbv
RT: 11.54 min Scan# 3252
Delta R.T. -0.00 min
Lab File: VL031417.D
Acq: 22 Jan 2018 14:32

Tgt Ion	Ratio	Lower	Upper
164	100		
166	120.7	100.2	150.2
129	111.3	91.4	137.0
131	105.1	87.4	131.0





#53

Toluene

Concen: 0.85 ppbv

RT: 10.11 min Scan# 2807

Delta R.T. -0.01 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 328216

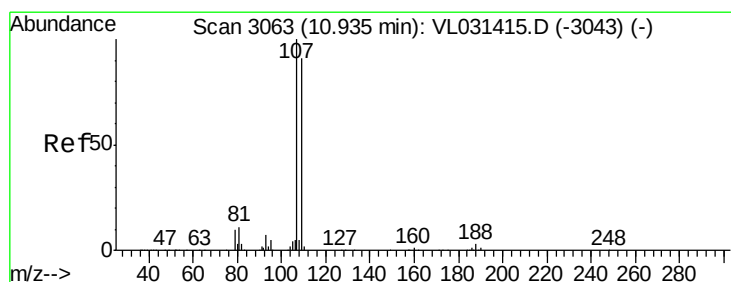
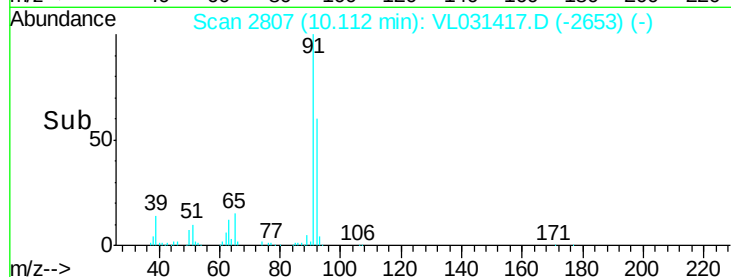
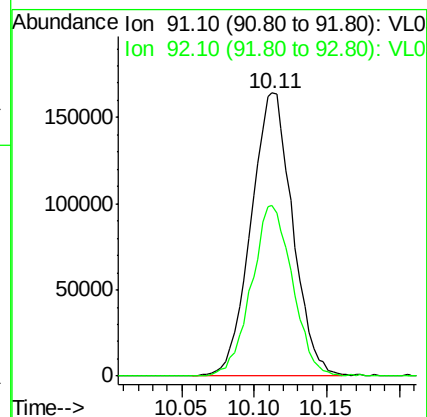
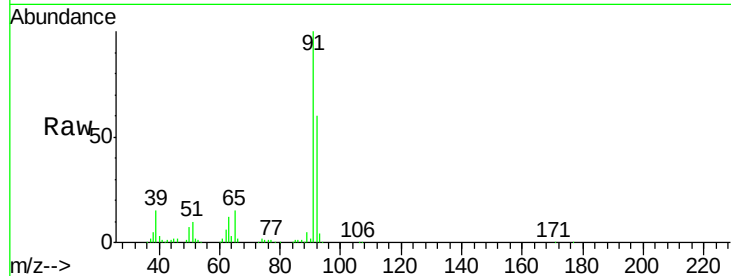
Ion Ratio Lower Upper

91 100

92 59.7 47.8 71.6

Manual Integrations
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1/24/2018 5:10:11 PM



#54

1,2-Dibromoethane

Concen: 0.85 ppbv

RT: 10.93 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VL031417.D

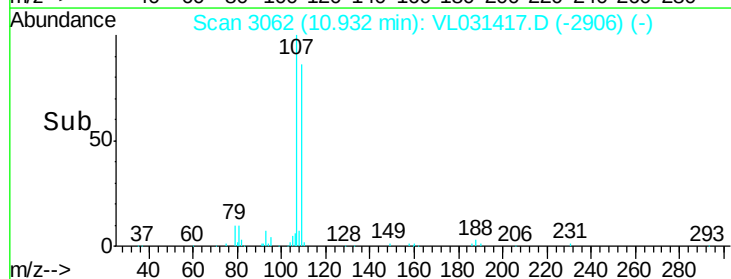
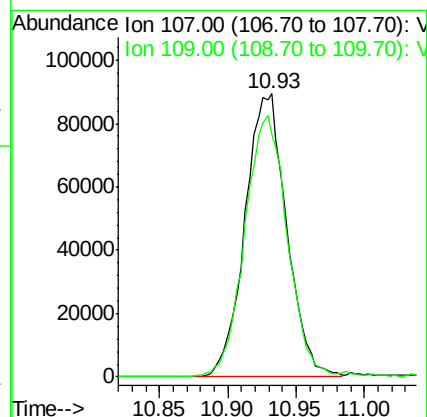
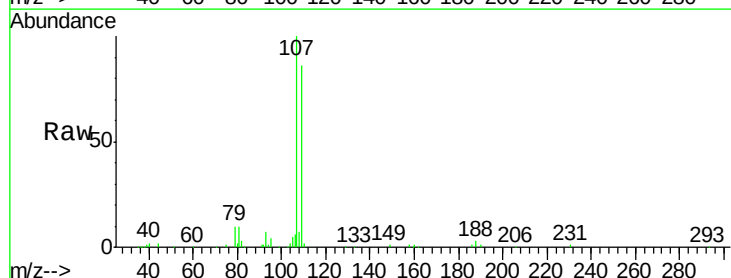
Acq: 22 Jan 2018 14:32

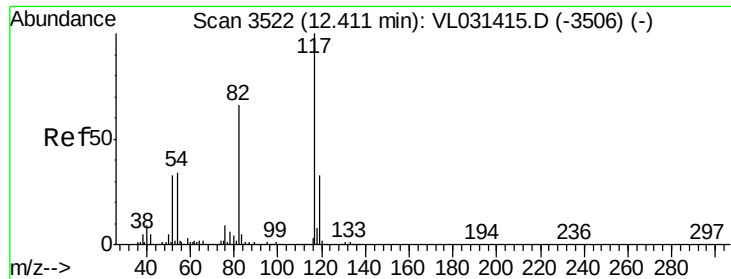
Tgt Ion: 107 Resp: 189767

Ion Ratio Lower Upper

107 100

109 85.8 75.5 113.3





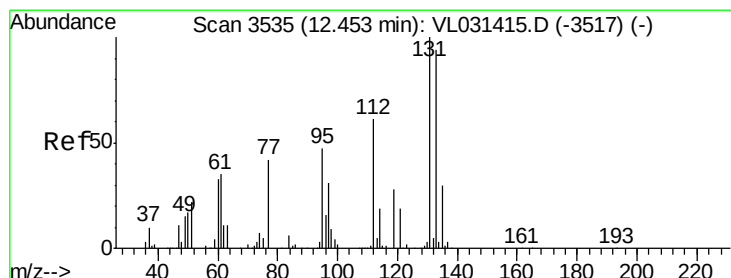
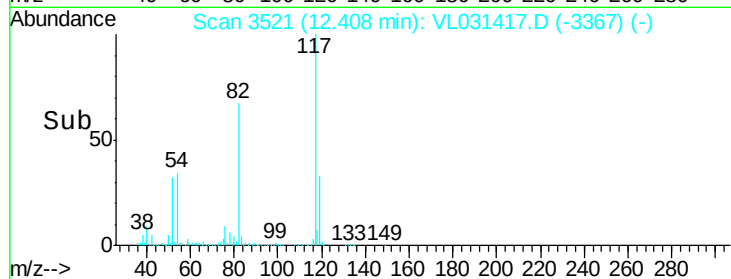
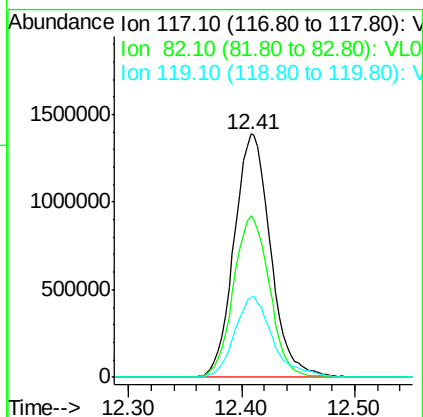
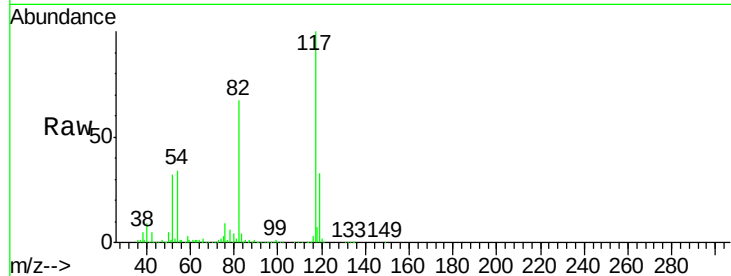
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.41 min Scan# 3521
Delta R.T. -0.01 min
Lab File: VL031417.D
Acq: 22 Jan 2018 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
117	100		
82	65.5	51.8	77.6
119	34.6	24.2	36.2

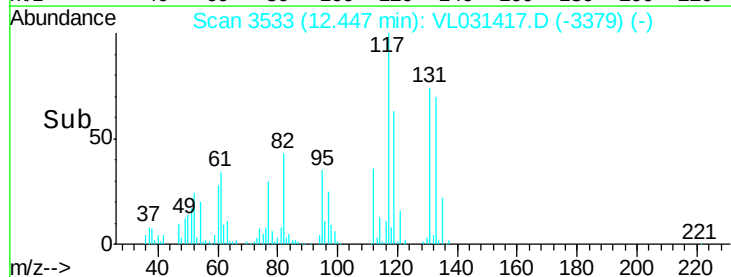
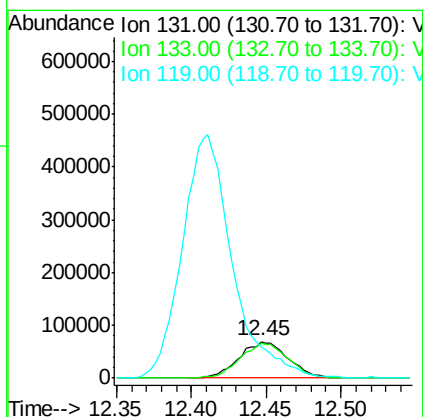
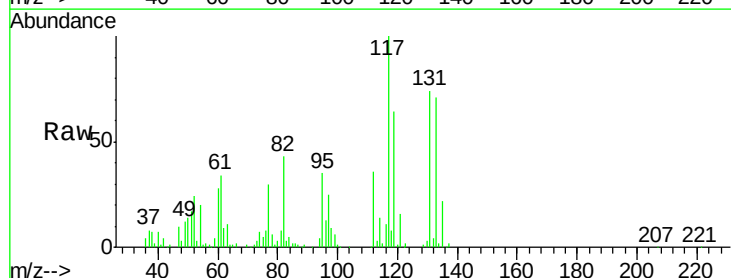
Manual Integrations
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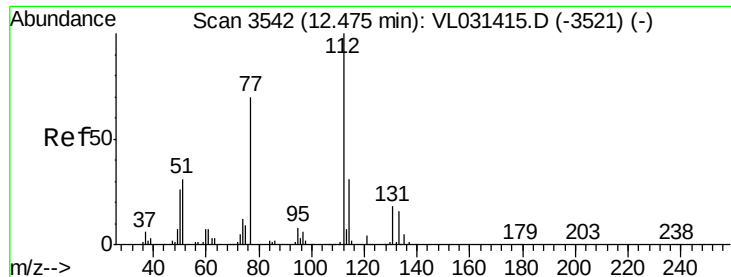
MMDadoda
1/24/2018 5:10:11 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 0.96 ppbv
RT: 12.45 min Scan# 3533
Delta R.T. -0.01 min
Lab File: VL031417.D
Acq: 22 Jan 2018 14:32

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.8	76.9	115.3
119	696.1	47.7	71.5#





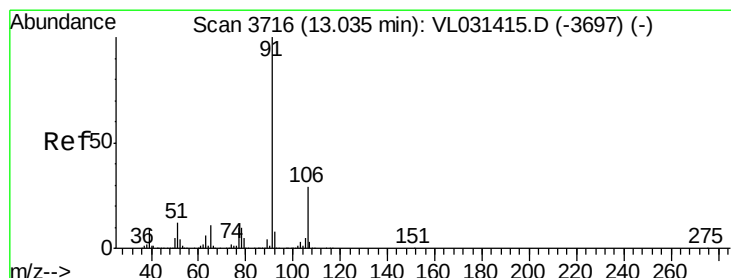
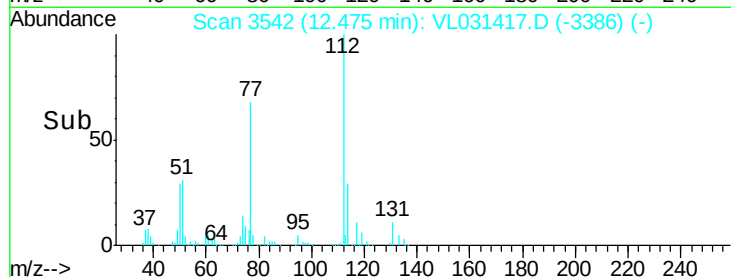
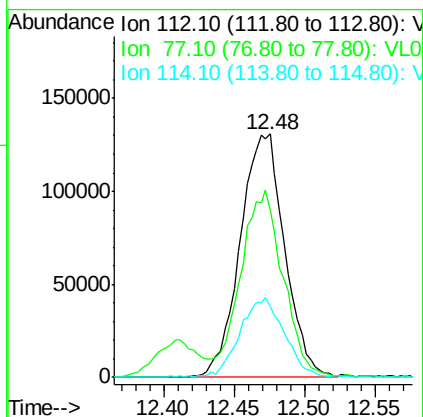
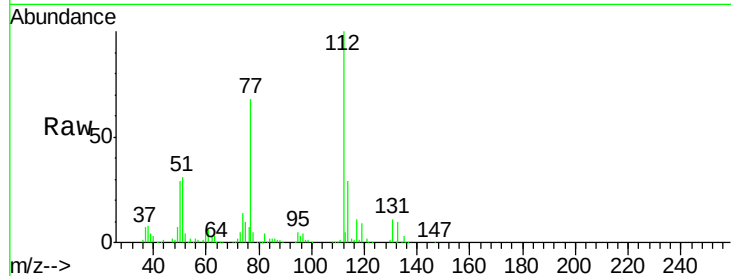
#57
Chlorobenzene
Concen: 0.98 ppbv
RT: 12.48 min Scan# 3542
Delta R.T. 0.00 min
Lab File: VL031417.D
Acq: 22 Jan 2018 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
112	100		
77	68.1	56.0	84.0
114	28.5	29.1	35.5

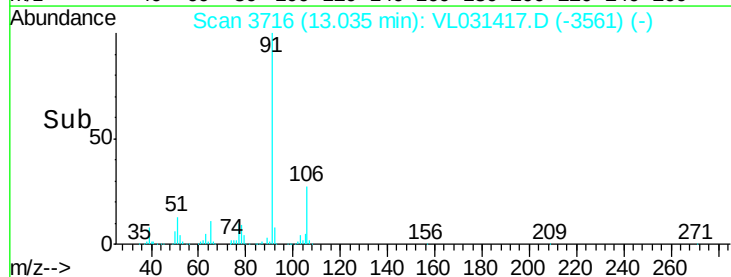
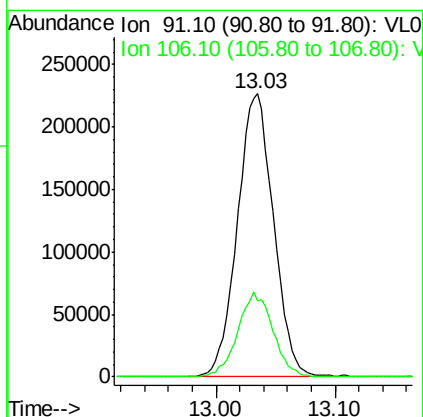
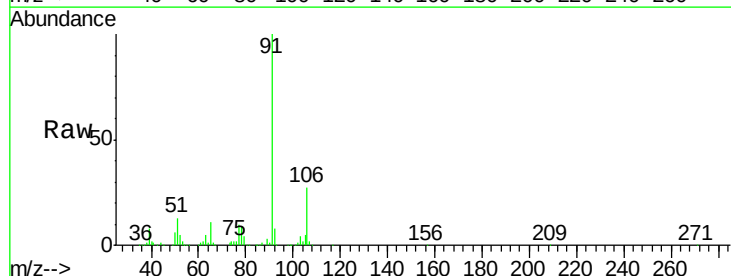
Manual Integrations
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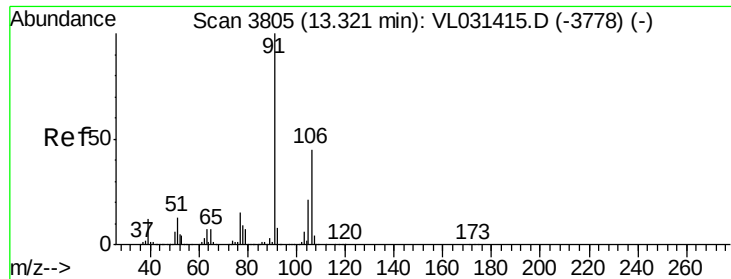
MMDadoda
1/24/2018 5:10:11 PM



#58
Ethyl Benzene
Concen: 0.93 ppbv
RT: 13.03 min Scan# 3716
Delta R.T. -0.00 min
Lab File: VL031417.D
Acq: 22 Jan 2018 14:32

Tgt Ion	Ratio	Lower	Upper
91	100		
106	26.8	23.8	35.6





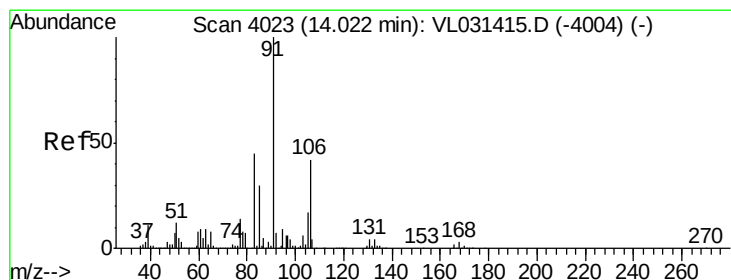
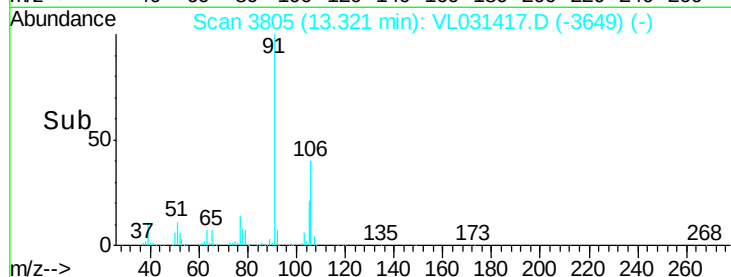
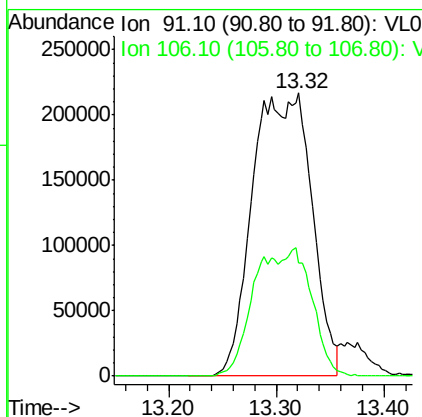
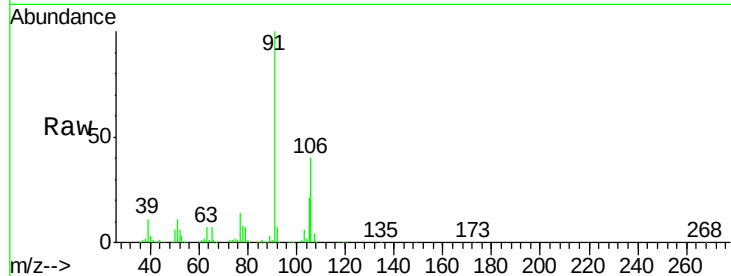
#59
m/p-Xylene
Concen: 1.96 ppbv m
RT: 13.32 min Scan# 3805
Delta R.T. 0.00 min
Lab File: VL031417.D
Acq: 22 Jan 2018 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.6	53.4#

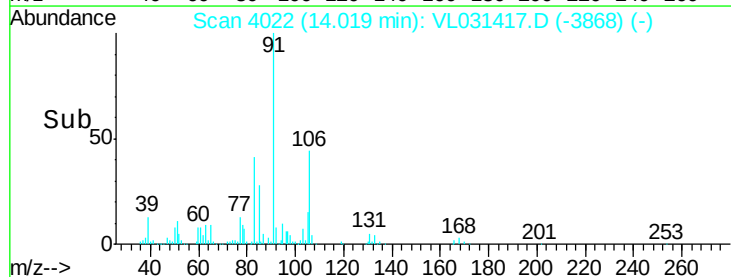
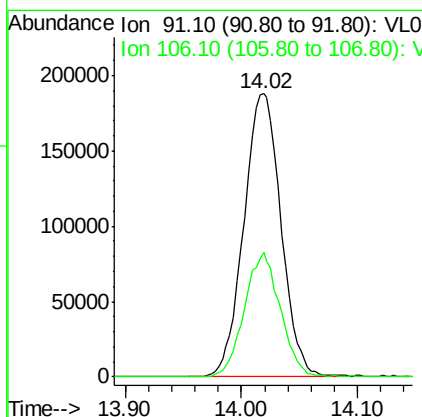
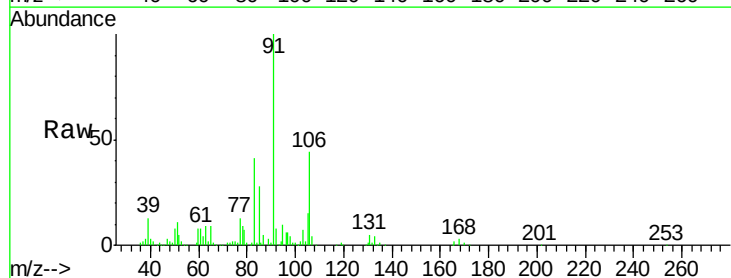
Manual Integrations
APPROVED

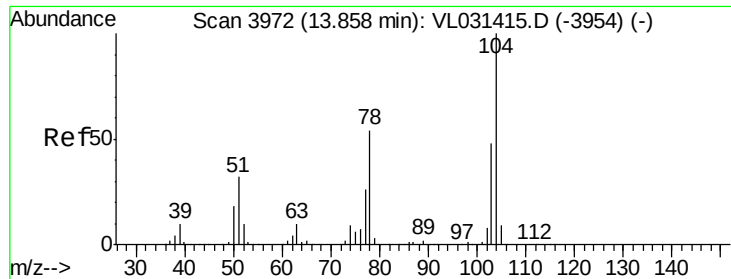
MMDadoda
1/24/2018 5:10:11 PM



#60
o-Xylene
Concen: 0.98 ppbv
RT: 14.02 min Scan# 4022
Delta R.T. -0.01 min
Lab File: VL031417.D
Acq: 22 Jan 2018 14:32

Tgt Ion	Ratio	Lower	Upper
91	100		
106	42.3	21.3	64.0





#61

Stvrene

Concen: 0.84 ppbv

RT: 13.85 min Scan# 3971

Delta R.T. -0.00 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

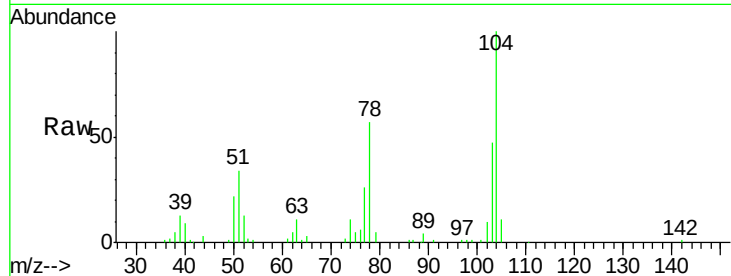
ClientSampleId :

VSTDIC001

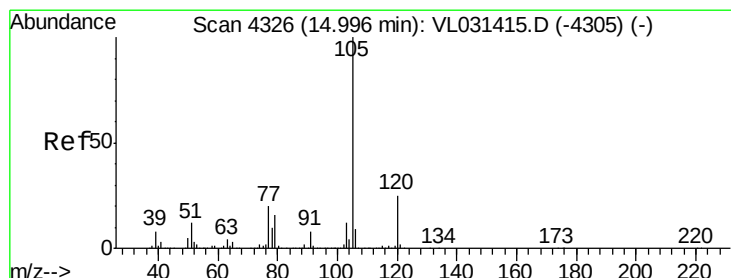
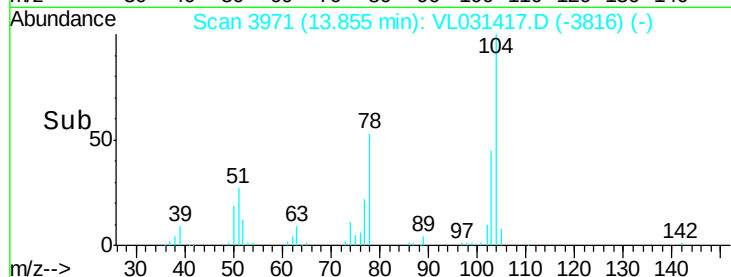
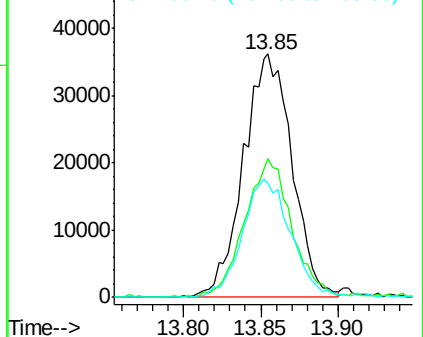
Tot Ion:	104	Resp:	79002
Ion Ratio	Lower	Upper	
104	100		
78	56.2	45.4	68.0
103	49.0	38.6	57.8

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Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): V
Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.97 ppbv

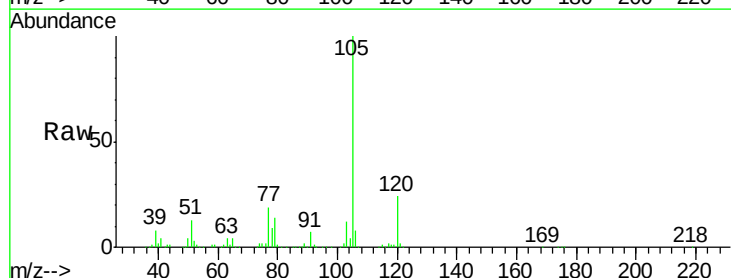
RT: 15.00 min Scan# 4326

Delta R.T. -0.00 min

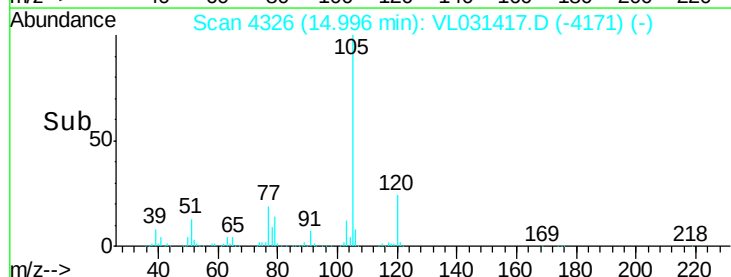
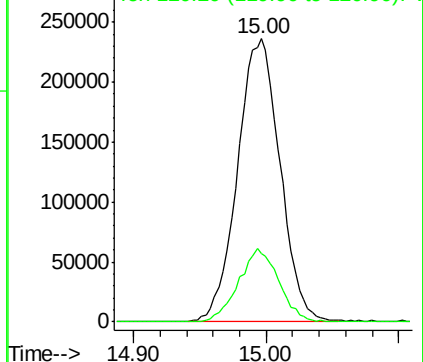
Lab File: VL031417.D

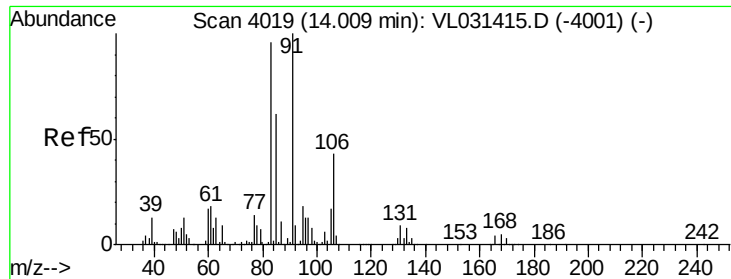
Acq: 22 Jan 2018 14:32

Tgt Ion:	105	Resp:	523464
Ion Ratio	Lower	Upper	
105	100		
120	24.6	19.9	29.9



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 0.90 ppbv

RT: 14.00 min Scan# 4016

Delta R.T. -0.01 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 83 Resp: 292576

Ion Ratio Lower Upper

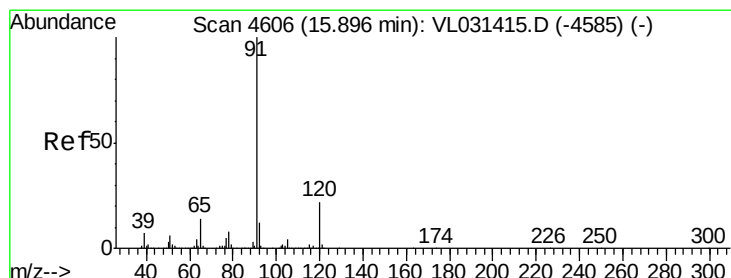
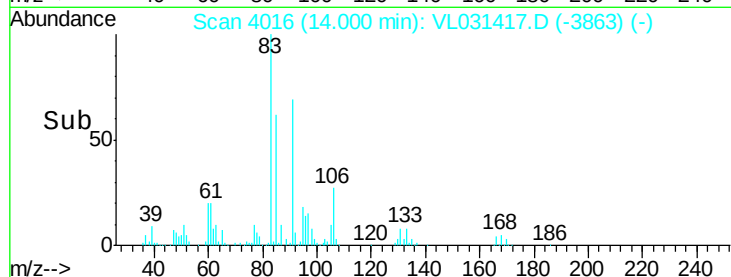
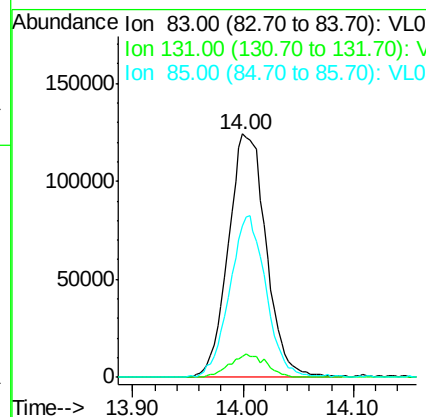
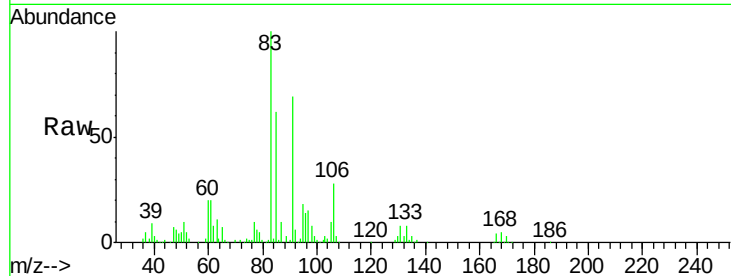
83 100

131 9.4 4.8 14.3

85 64.8 32.4 97.0

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#64

n-propylbenzene

Concen: 0.92 ppbv

RT: 15.89 min Scan# 4604

Delta R.T. -0.01 min

Lab File: VL031417.D

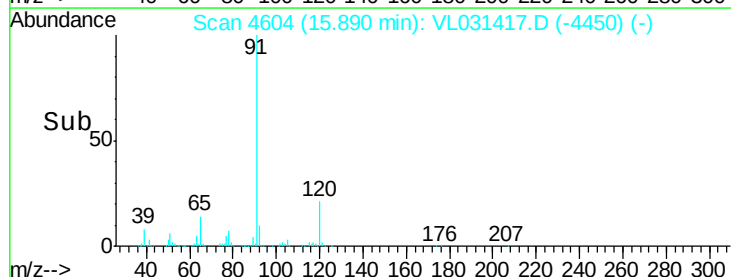
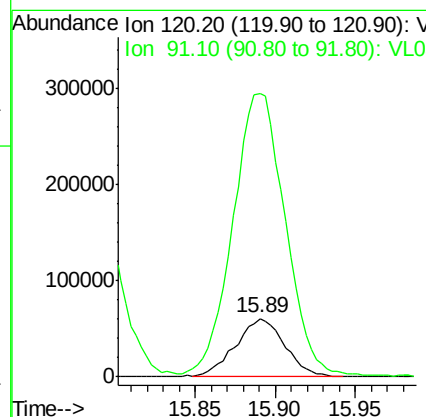
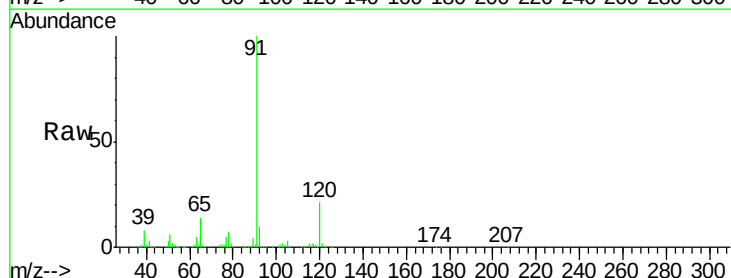
Acq: 22 Jan 2018 14:32

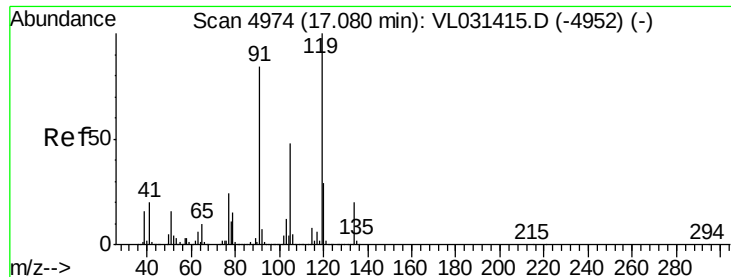
Tgt Ion: 120 Resp: 125493

Ion Ratio Lower Upper

120 100

91 528.6 389.8 584.6





#65

tert-Butylbenzene

Concen: 0.95 ppbv

RT: 17.07 min Scan# 4972

Delta R.T. -0.01 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

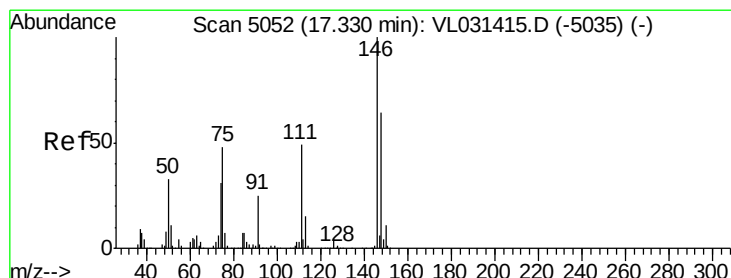
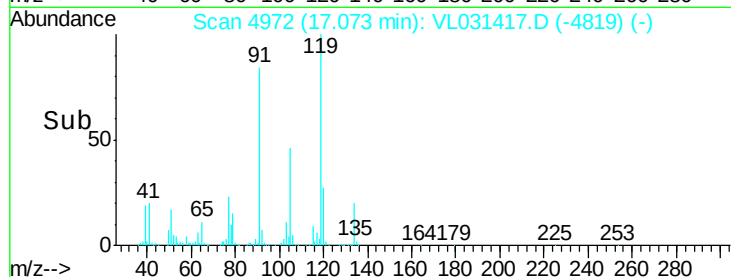
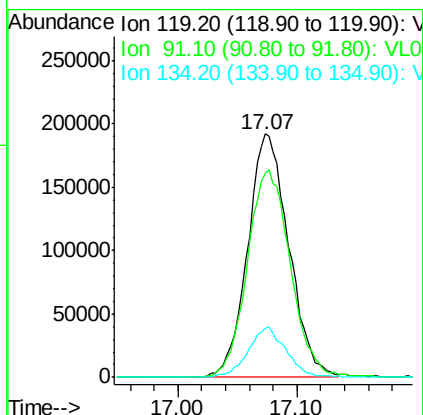
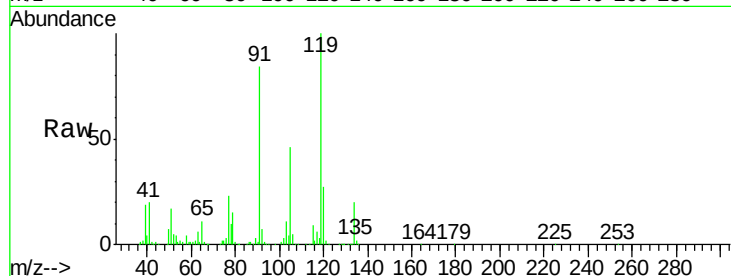
ClientSampleId :

VSTDIC001

Tot Ion:	119	Resp:	459097
Ion	Ratio	Lower	Upper
119	100		
91	89.5	69.0	103.6
134	19.0	15.7	23.5

Manual Integrations
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#66

Benzyl Chloride

Concen: 0.96 ppbv m

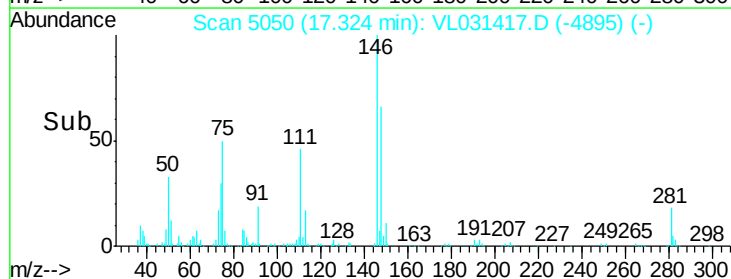
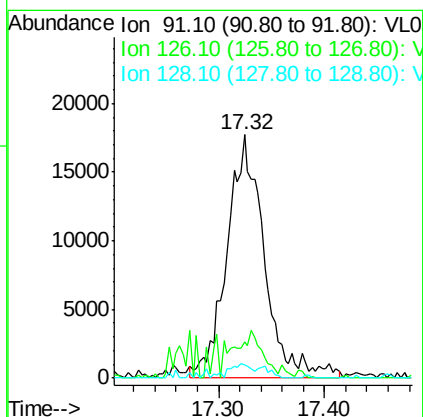
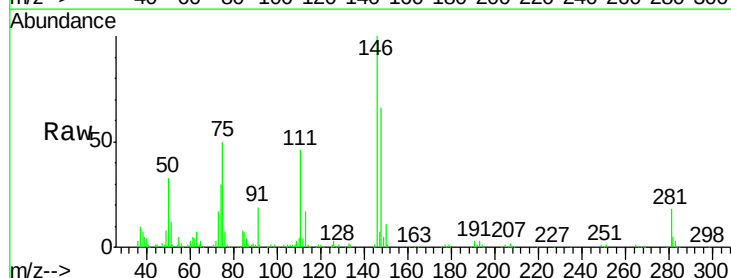
RT: 17.32 min Scan# 5050

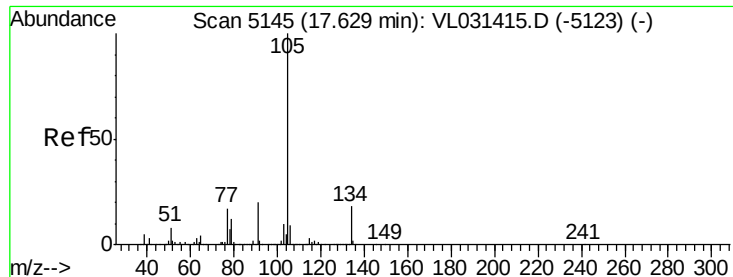
Delta R.T. -0.00 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Tgt Ion:	91	Resp:	43225
Ion	Ratio	Lower	Upper
91	100		
126	0.0	13.8	20.8#
128	5.2	4.6	6.8





#67

sec-Butylbenzene

Concen: 0.94 ppbv

RT: 17.62 min Scan# 5143

Delta R.T. -0.01 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 105 Resp: 643581

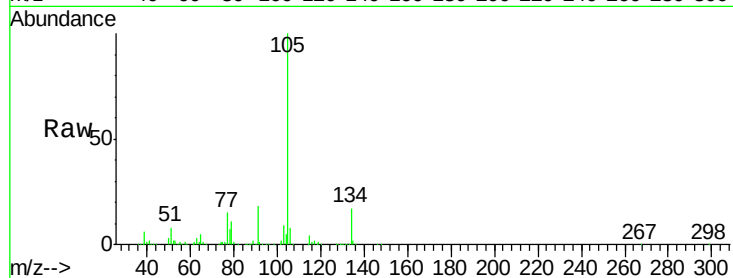
Ion Ratio Lower Upper

105 100

134 17.8 14.5 21.7

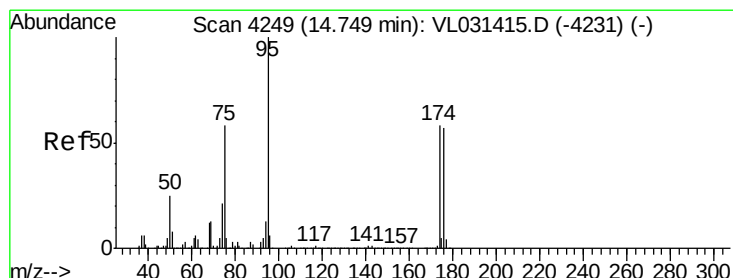
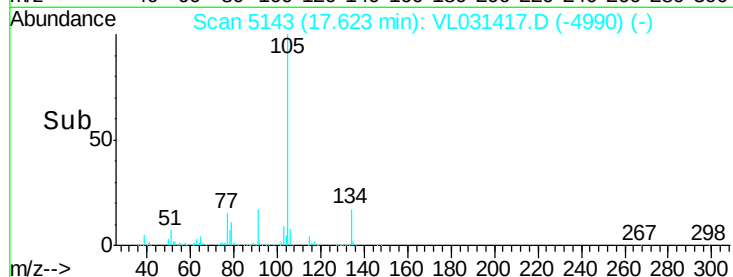
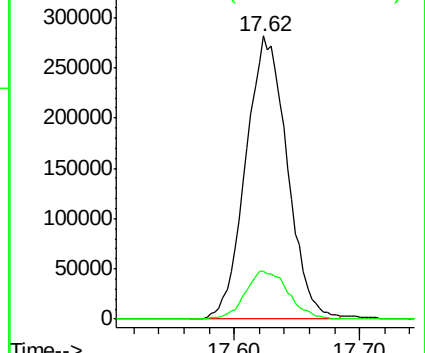
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.22 ppbv

RT: 14.75 min Scan# 4248

Delta R.T. -0.00 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

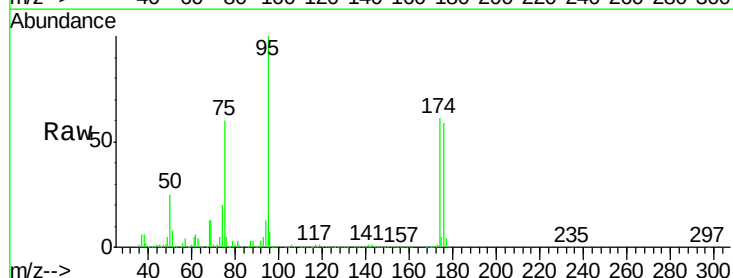
Tgt Ion: 95 Resp: 2519155

Ion Ratio Lower Upper

95 100

174 61.1 48.2 72.4

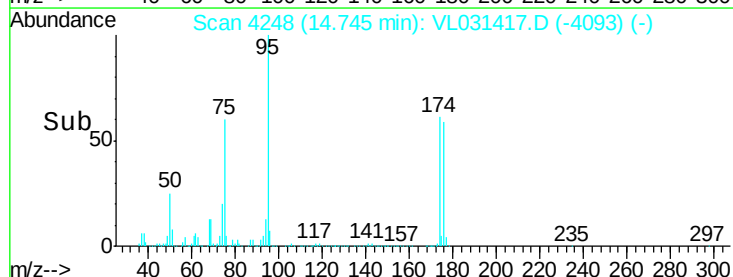
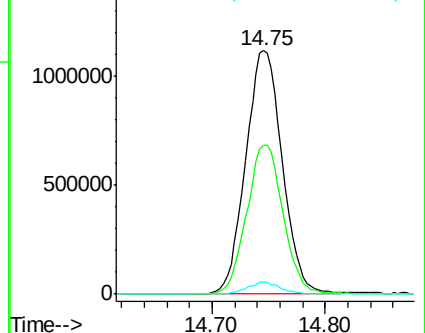
175 4.6 3.6 5.4

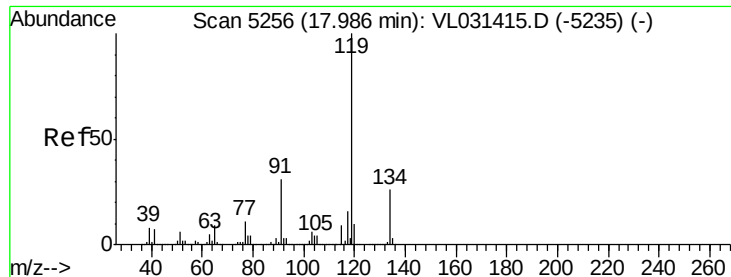


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





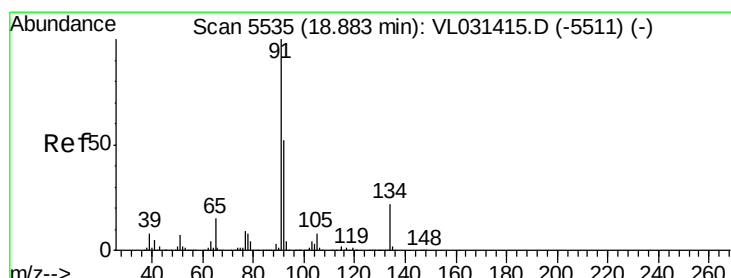
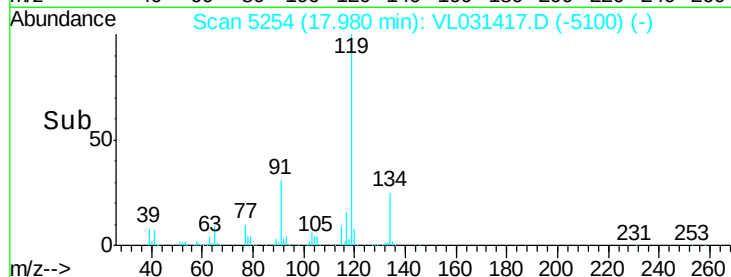
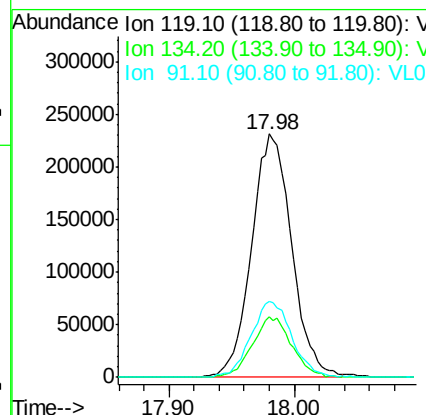
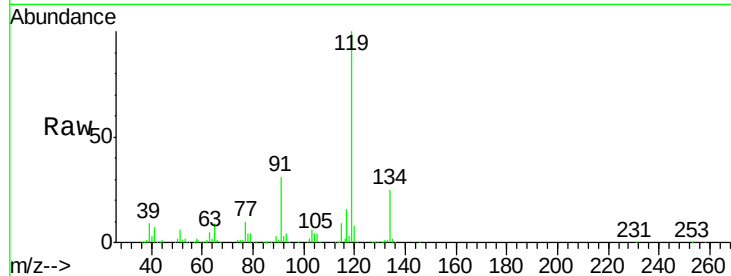
#69
 p-Isopropyltoluene
 Concen: 0.95 ppbv
 RT: 17.98 min Scan# 5254
 Delta R.T. -0.01 min
 Lab File: VL031417.D
 Acq: 22 Jan 2018 14:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp Lower	Upper
119	100		
134	24.5	20.2	30.4
91	32.1	25.0	37.4

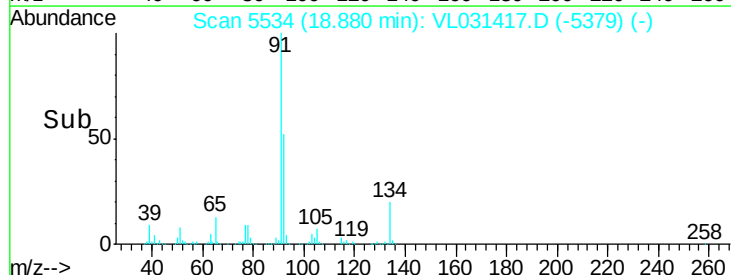
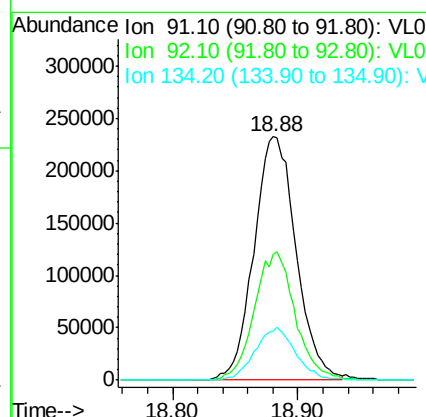
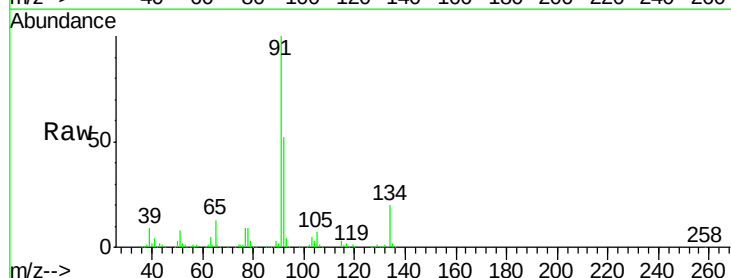
Manual Integrations
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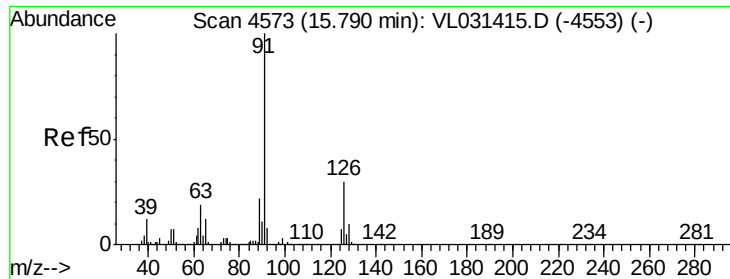
MMDadoda
 1/24/2018 5:10:11 PM



#70
 n-Butylbenzene
 Concen: 0.96 ppbv
 RT: 18.88 min Scan# 5534
 Delta R.T. -0.00 min
 Lab File: VL031417.D
 Acq: 22 Jan 2018 14:32

Tgt Ion	Ratio	Resp Lower	Upper
91	100		
92	51.3	42.2	63.4
134	20.8	17.4	26.2





#71

2-Chlorotoluene

Concen: 0.95 ppbv

RT: 15.79 min Scan# 4573

Delta R.T. -0.00 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 395672

Ion Ratio Lower Upper

91 100

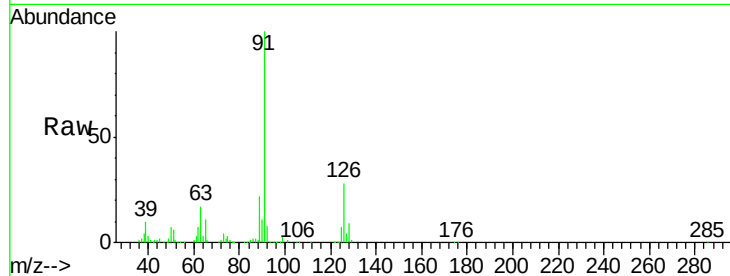
126 28.6 11.7 46.9

Manual Integrations

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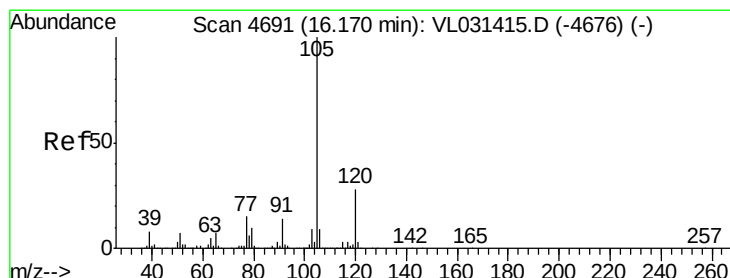
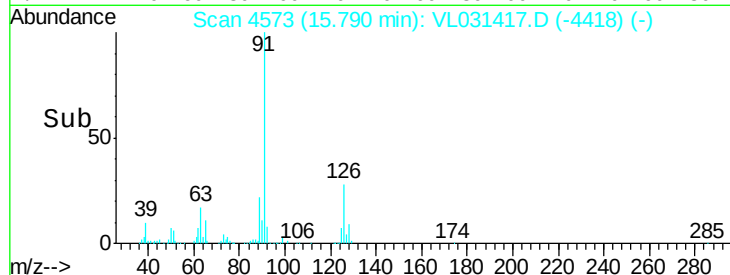
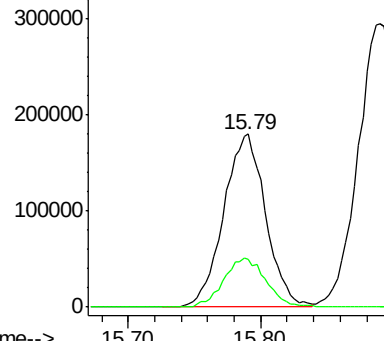
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.94 ppbv

RT: 16.17 min Scan# 4691

Delta R.T. -0.00 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Tgt Ion: 105 Resp: 414439

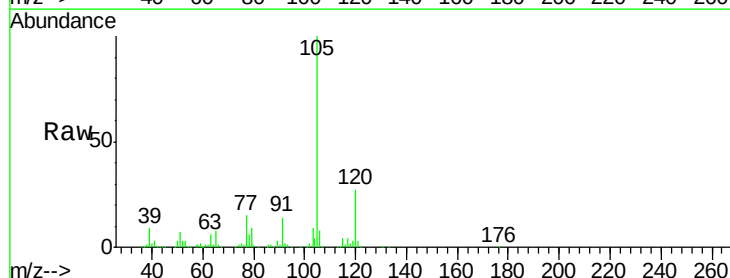
Ion Ratio Lower Upper

105 100

120 28.1 23.0 34.6

91 14.4 11.0 16.4

77 15.5 12.3 18.5

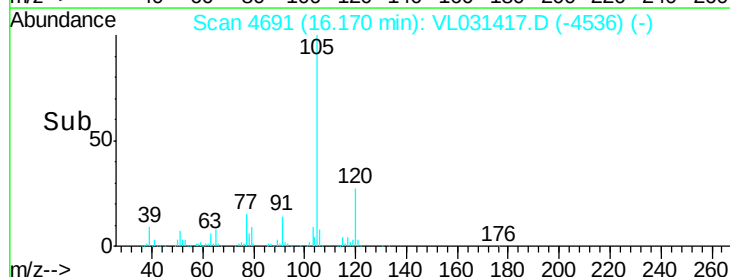
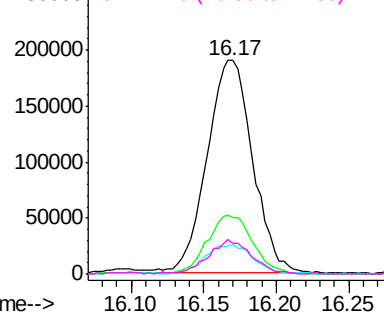


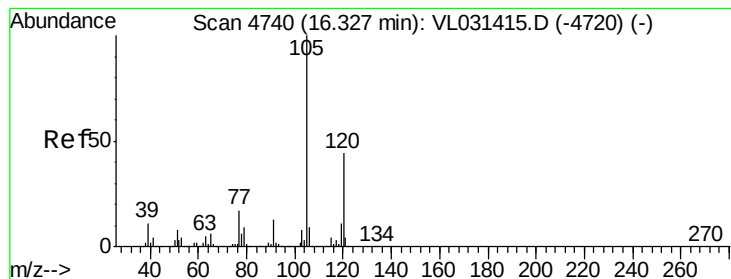
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 0.98 ppbv

RT: 16.32 min Scan# 4739

Delta R.T. -0.00 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:105 Resp: 382259

Ion Ratio Lower Upper

105 100

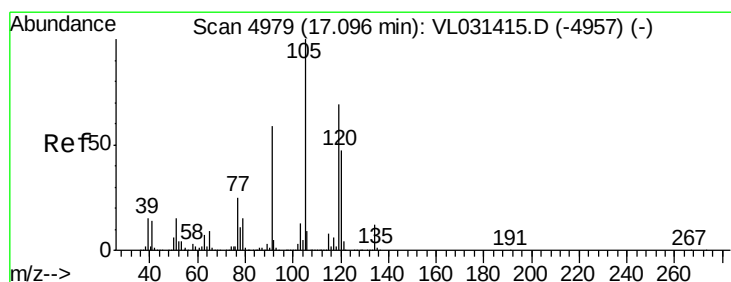
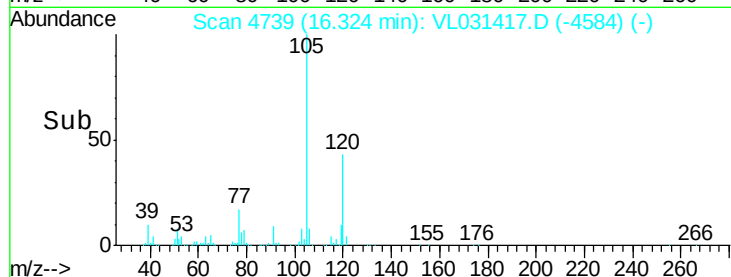
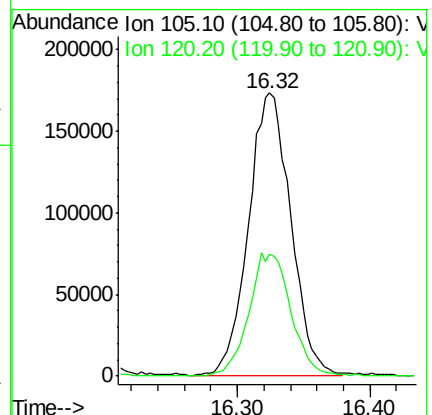
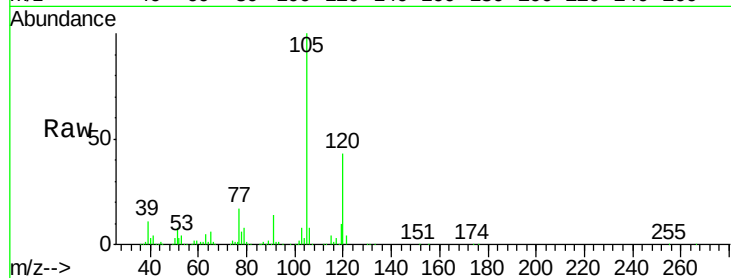
120 42.9 35.8 53.6

Manual Integrations

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#74

1,2,4-Trimethylbenzene

Concen: 1.01 ppbv

RT: 17.09 min Scan# 4977

Delta R.T. -0.01 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Tgt Ion:105 Resp: 428947

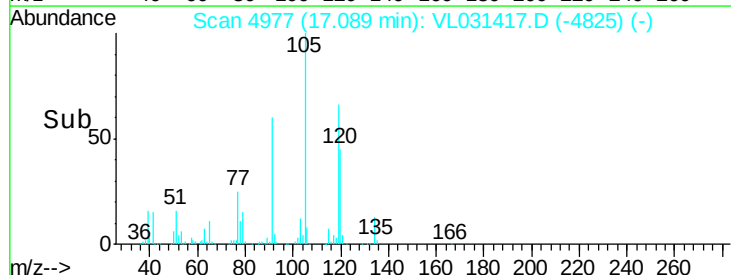
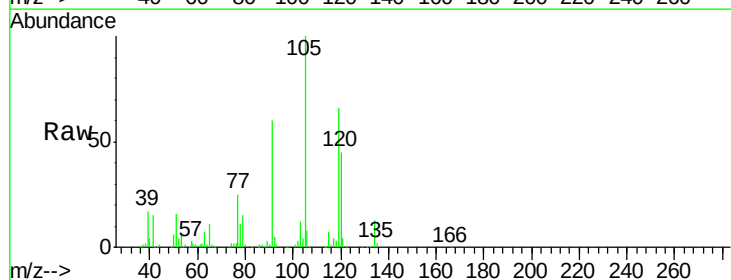
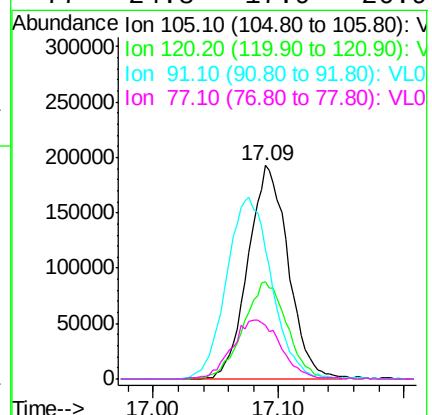
Ion Ratio Lower Upper

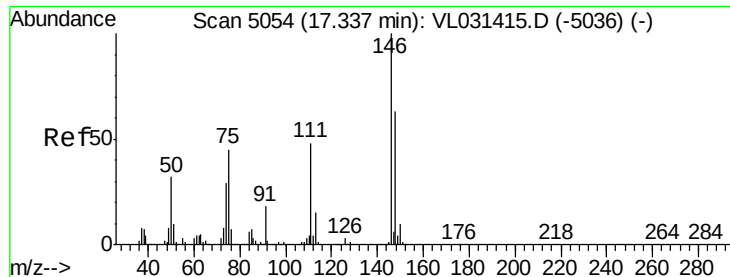
105 100

120 45.1 37.0 55.6

91 59.8 35.1 52.7#

77 24.8 17.9 26.9





#75

1,3-Dichlorobenzene

Concen: 0.95 ppbv

RT: 17.33 min Scan# 5053

Delta R.T. -0.01 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

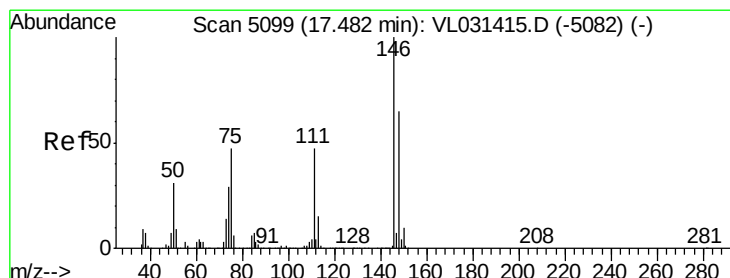
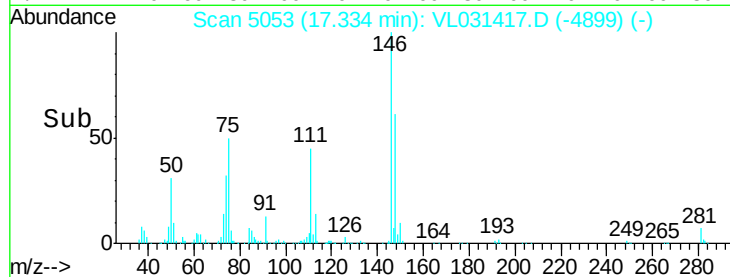
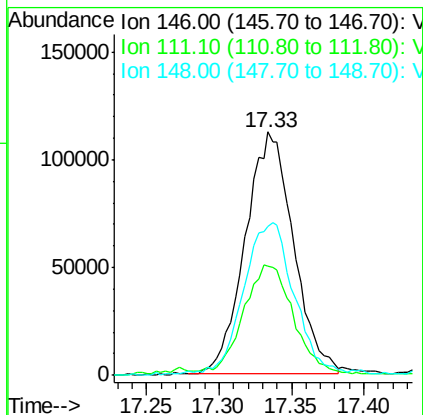
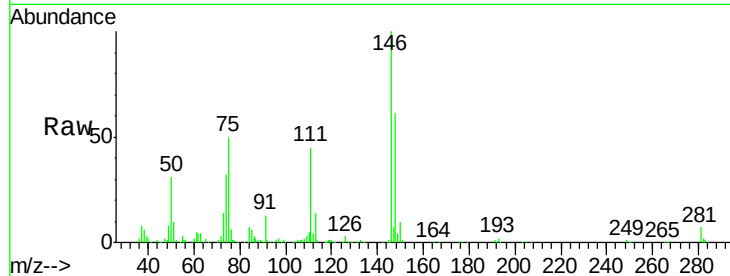
ClientSampleId :

VSTDIC001

Tot Ion:	146	Resp:	260947
Ion Ratio	Lower	Upper	
146	100		
111	50.0	24.2	72.6
148	67.7	32.1	96.3

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 0.93 ppbv

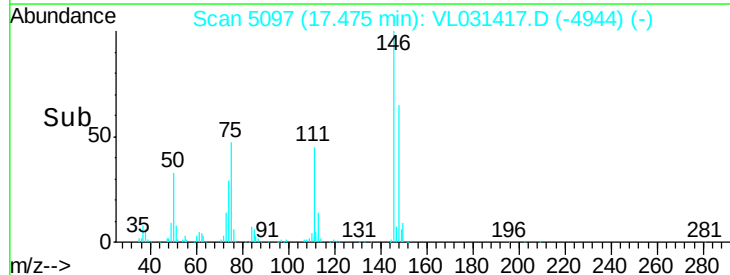
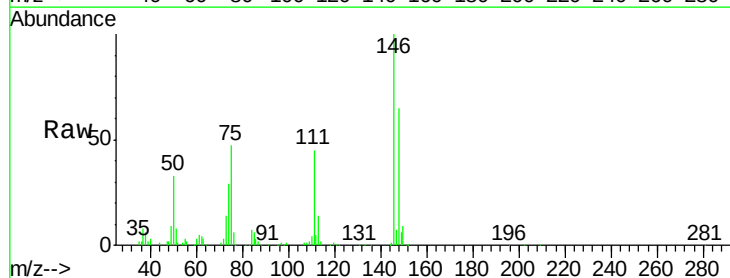
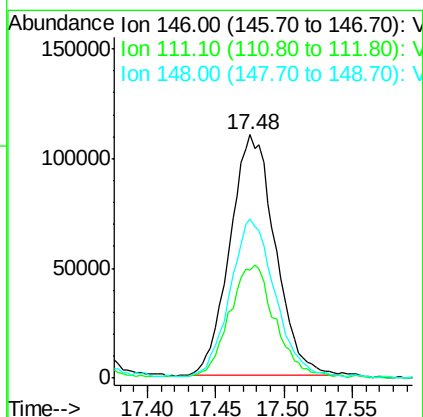
RT: 17.48 min Scan# 5097

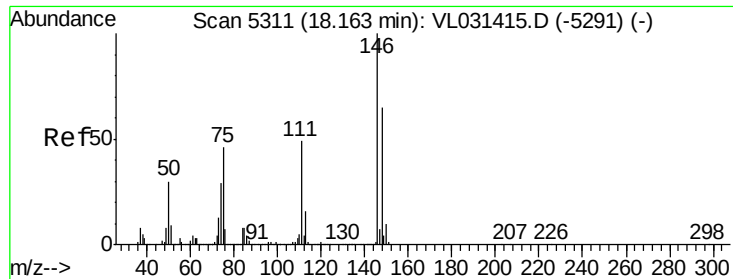
Delta R.T. -0.01 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Tgt Ion:	146	Resp:	252214
Ion Ratio	Lower	Upper	
146	100		
111	48.5	23.3	69.9
148	65.2	32.4	97.2





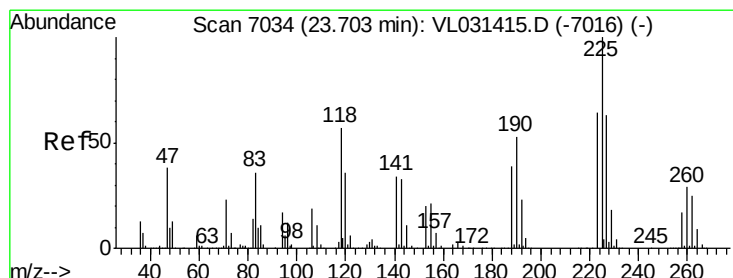
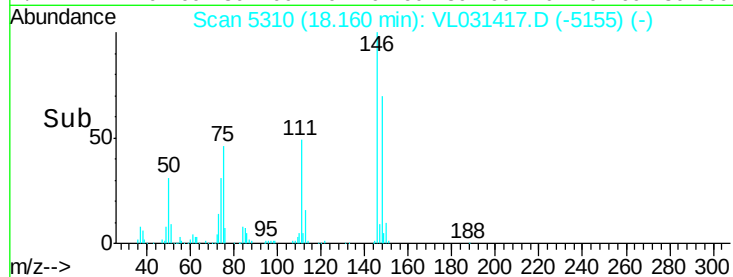
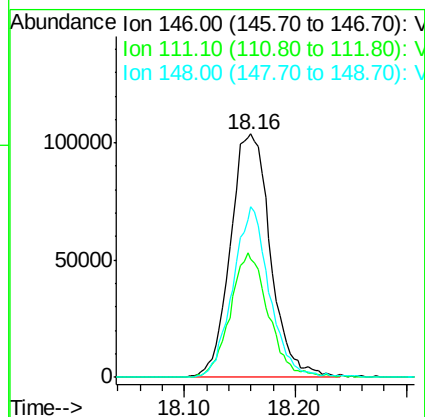
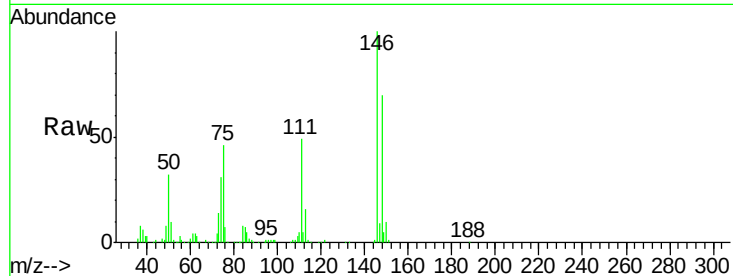
#77
 1,2-Dichlorobenzene
 Concen: 0.96 ppbv m
 RT: 18.16 min Scan# 5310
 Delta R.T. -0.00 min
 Lab File: VL031417.D
 Acq: 22 Jan 2018 14:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.9	24.6	74.0
148	63.6	32.3	96.8

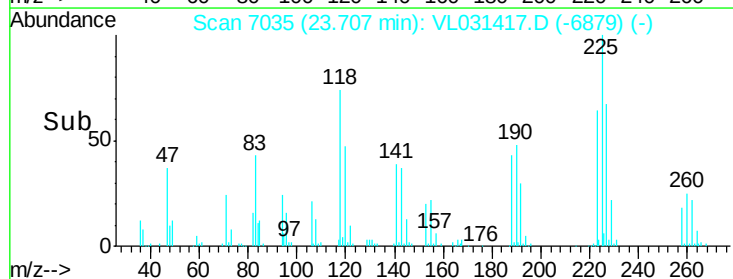
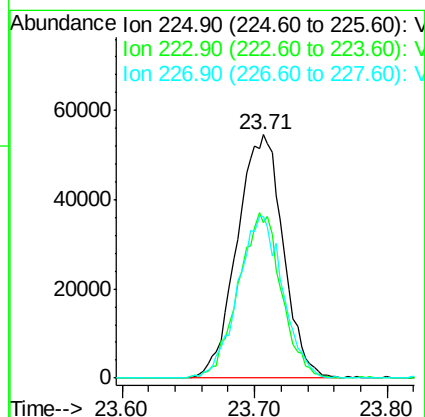
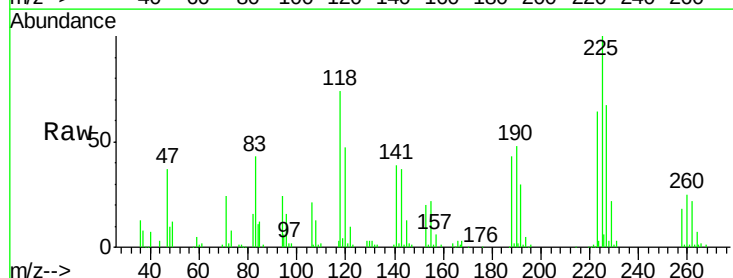
Manual Integrations
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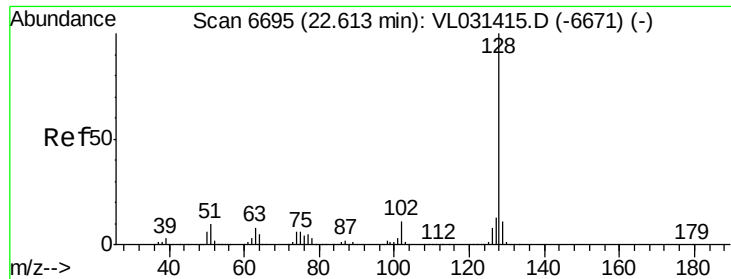
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#78
 Hexachloro-1,3-Butadiene
 Concen: 1.51 ppbv
 RT: 23.71 min Scan# 7035
 Delta R.T. 0.00 min
 Lab File: VL031417.D
 Acq: 22 Jan 2018 14:32

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.2	51.3	76.9
227	65.2	50.7	76.1





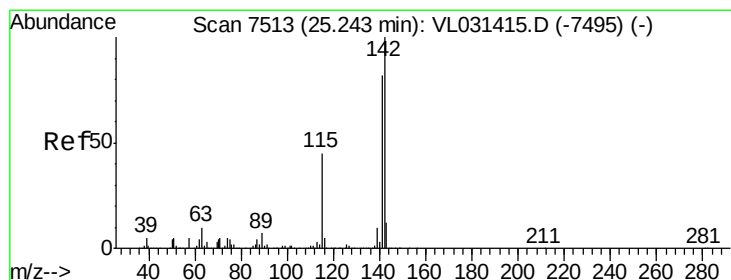
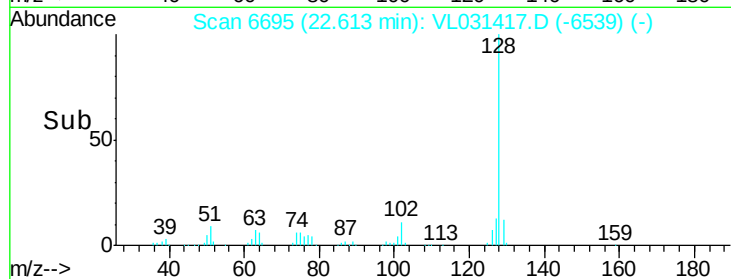
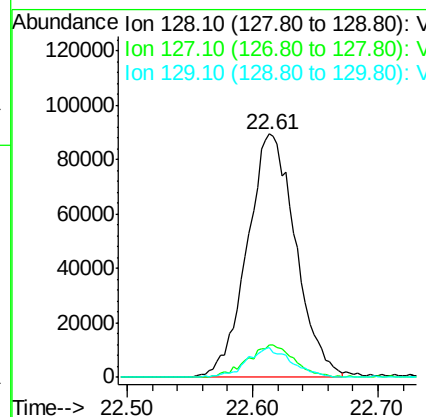
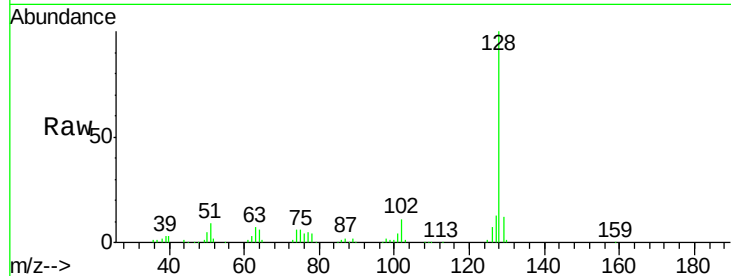
#79
Naphthalene
Concen: 1.16 ppbv
RT: 22.61 min Scan# 6695
Delta R.T. 0.00 min
Lab File: VL031417.D
Acq: 22 Jan 2018 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.6	16.0
129	12.0	9.2	13.8

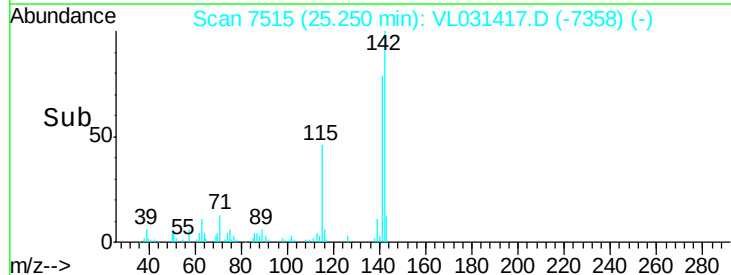
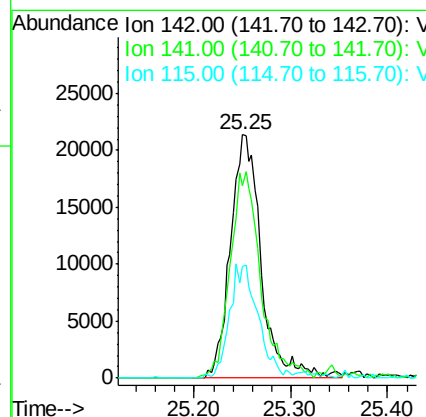
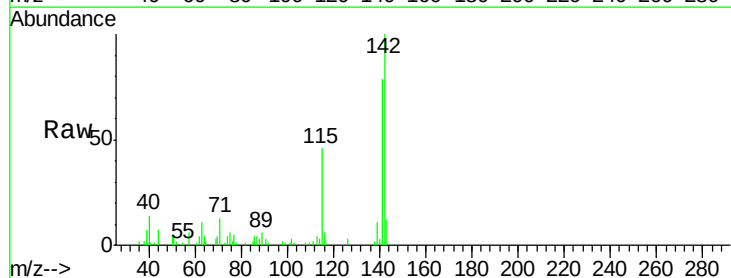
Manual Integrations
APPROVED

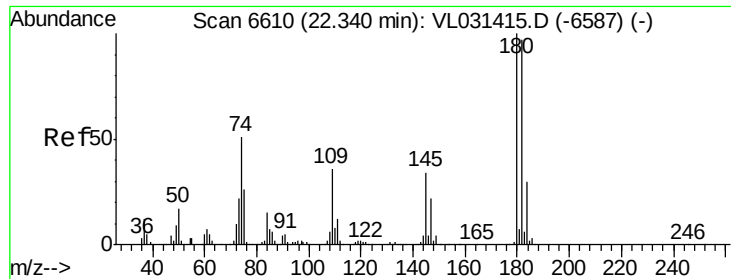
MMDadoda
1/24/2018 5:10:11 PM



#80
Naphthalene, 2-methyl-
Concen: 0.92 ppbv
RT: 25.25 min Scan# 7515
Delta R.T. 0.00 min
Lab File: VL031417.D
Acq: 22 Jan 2018 14:32

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.8	68.7	103.1
115	45.0	36.3	54.5





#81

1,2,4-Trichlorobenzene

Concen: 1.11 ppbv m

RT: 22.35 min Scan# 6612

Delta R.T. 0.01 min

Lab File: VL031417.D

Acq: 22 Jan 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:180 Resp: 134600

Ion Ratio Lower Upper

180 100

182 93.9 76.2 114.4

184 30.5 24.2 36.4

Manual Integrations

APPROVED

MMDadoda

1/24/2018 5:10:11 PM

