

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062918\
 Data File : VL032148.D
 Acq On : 29 Jun 2018 19:59
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 7/2/2018 4:25:00 PM

Quant Time: Jun 29 20:48:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 20:48:54 2018
 QLast Update : Fri Jun 29 20:36:18 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.85	49	1568535	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.38	114	3985609	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3821141	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.68	95	2909484	10.25	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.50%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.14	85	138288	0.84	ppbv	98
3) Chlorodifluoromethane	3.07	51	102131	0.50	ppbv	96
4) Chloromethane	3.23	50	52529	0.48	ppbv	91
5) Vinyl Chloride	3.35	62	51757	0.46	ppbv	99
6) Bromomethane	3.58	94	31940	0.49	ppbv	84
7) Chloroethane	3.67	64	19000m	0.46	ppbv	
8) Dichlorotetrafluoroethane	3.28	85	131453	0.58	ppbv	96
9) Propene	3.09	41	47311	0.48	ppbv	100
10) Heptane	8.34	43	140628	0.50	ppbv	99
11) Trichlorofluoromethane	4.07	101	117265	0.54	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.63	101	80312	0.55	ppbv	96
13) Ethanol	3.73	45	17535m	0.59	ppbv	
14) Bromoethene	3.86	108	37723m	0.52	ppbv	
15) Acetone	3.98	43	102755	0.49	ppbv	97
16) 1,3-Butadiene	3.43	39	46112	0.47	ppbv	95
17) tert-Butyl alcohol	4.45	59	62928m	0.50	ppbv	
18) 1,1-Dichloroethene	4.43	96	38633	0.54	ppbv	92
19) Isopropyl Alcohol	4.11	45	85767m	0.52	ppbv	
20) Methylene Chloride	4.48	84	39889	0.57	ppbv	93
21) Allyl Chloride	4.55	41	63226	0.49	ppbv	93
22) trans-1,2-Dichloroethene	5.05	96	39901	0.54	ppbv	96
23) Vinyl Acetate	5.24	43	185211m	0.58	ppbv	
24) 1,1-Dichloroethane	5.17	63	117885	0.49	ppbv #	96
25) Ethyl Acetate	5.86	43	207788	0.45	ppbv	99
26) Hexane	5.86	57	96619	0.48	ppbv	96
27) Carbon Disulfide	4.70	76	83437	0.41	ppbv #	71
28) Methyl tert-Butyl Ether	5.21	73	171605	0.67	ppbv	99
29) Chloroform	5.93	83	136389	0.51	ppbv	95
30) Cyclohexane	7.34	84	90955	0.55	ppbv	93
31) cis-1,2-Dichloroethene	5.73	61	92252m	0.51	ppbv	
32) 1,1,1-Trichloroethane	6.71	97	137024	0.49	ppbv	99
34) 2-Butanone	5.42	43	134158	0.41	ppbv	100
35) Carbon Tetrachloride	7.23	117	143583	0.52	ppbv	97
36) Benzene	7.10	78	212725	0.49	ppbv	97
37) 1,2-Dichloroethane	6.50	62	101561	0.46	ppbv	98
38) Trichloroethene	8.06	130	79449	0.48	ppbv	93
39) 1,2-Dichloropropane	7.83	63	82180	0.52	ppbv	94
40) 1,4-Dioxane	8.09	88	34784m	0.47	ppbv	
41) Tetrahydrofuran	6.26	42	79513m	0.41	ppbv	
42) Bromodichloromethane	8.01	83	154056m	0.51	ppbv	
43) Methyl Methacrylate	8.24	69	82380	0.48	ppbv	96

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :
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Manual Integrations
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Quant Time: Jun 29 20:48:54 2018
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 20:48:54 2018
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.09	57	376484	0.53	ppbv	99
45) t-1,3-Dichloropropene	9.51	75	91477	0.43	ppbv	90
46) cis-1,3-Dichloropropene	8.93	75	118060m	0.44	ppbv	
47) 1,1,2-Trichloroethane	9.71	97	87262	0.49	ppbv #	88
48) Dibromochloromethane	10.55	129	118576	0.44	ppbv	100
49) Bromoform	13.31	173	96899	0.47	ppbv	97
50) 4-Methyl-2-Pentanone	8.98	43	219425	0.44	ppbv	100
51) 2-Hexanone	10.40	43	173646	0.35	ppbv #	95
52) Tetrachloroethene	11.48	164	72073	0.45	ppbv	93
53) Toluene	10.04	91	252496m	0.48	ppbv	
54) 1,2-Dibromoethane	10.86	107	123214	0.46	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.38	131	96087m	0.57	ppbv	
57) Chlorobenzene	12.40	112	190355	0.53	ppbv	90
58) Ethyl Benzene	12.96	91	357946	0.54	ppbv	95
59) m/p-Xylene	13.22	91	575297m	1.09	ppbv	
60) o-Xylene	13.95	91	291346	0.56	ppbv	98
61) Styrene	13.79	104	225567	1.44	ppbv	98
62) Isopropylbenzene	14.93	105	421124	0.60	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.94	83	208043	0.51	ppbv	99
64) n-propylbenzene	15.83	120	102213	0.56	ppbv	78
65) tert-Butylbenzene	17.01	119	368324	0.60	ppbv	94
66) Benzyl Chloride	17.26	91	168114	2.15	ppbv	99
67) sec-Butylbenzene	17.56	105	557782	0.62	ppbv	98
69) p-Isopropyltoluene	17.92	119	430213	0.59	ppbv	96
70) n-Butylbenzene	18.82	91	451152	0.59	ppbv	99
71) 2-Chlorotoluene	15.72	91	313331	0.59	ppbv	96
72) 4-Ethyltoluene	16.10	105	333927	0.57	ppbv	95
73) 1,3,5-Trimethylbenzene	16.26	105	322039	0.61	ppbv	92
74) 1,2,4-Trimethylbenzene	17.03	105	333887	0.59	ppbv #	89
75) 1,3-Dichlorobenzene	17.27	146	185019	0.54	ppbv	97
76) 1,4-Dichlorobenzene	17.41	146	194826m	0.56	ppbv	
77) 1,2-Dichlorobenzene	18.09	146	184847	0.52	ppbv	95
78) Hexachloro-1,3-Butadiene	23.64	225	70311m	0.72	ppbv	
79) Naphthalene	22.54	128	261875m	0.45	ppbv	
80) Naphthalene, 2-methyl-	25.20	142	56289	0.16	ppbv	98
81) 1,2,4-Trichlorobenzene	22.25	180	116028m	0.51	ppbv	

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

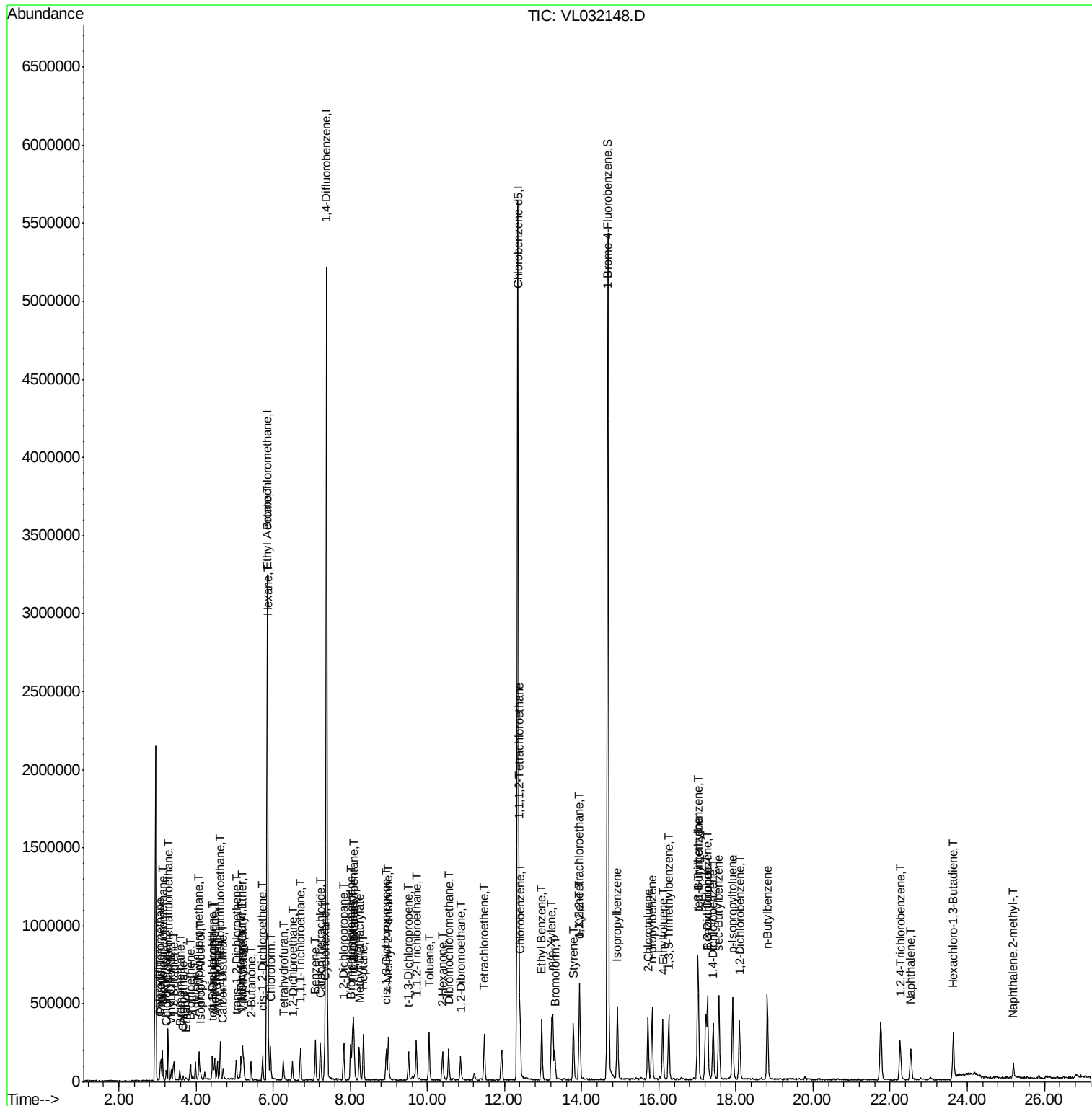
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL062918\
Data File : VL032148.D
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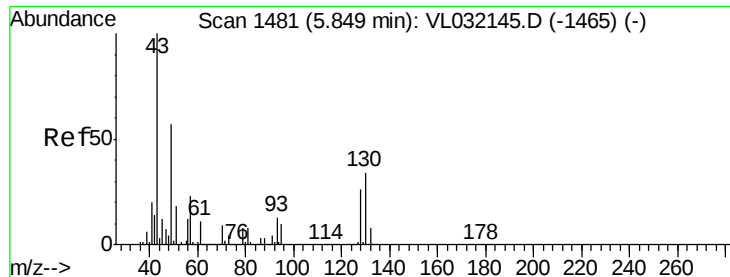
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

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Quant Time: Jun 29 20:48:54 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun
QLast Update : Fri Jun 29 20:36:18 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.85 min Scan# 1481

Delta R.T. -0.01 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 49 Resp: 1568535

Ion Ratio Lower Upper

49 100

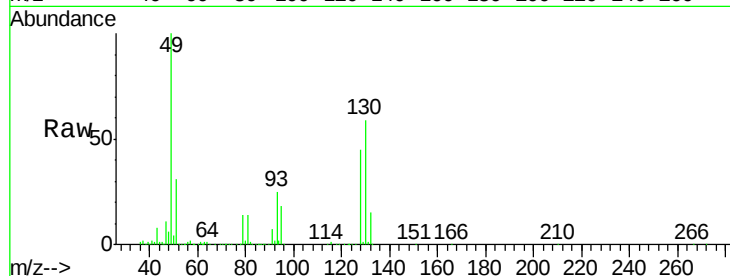
128 47.2 23.4 70.0

130 60.1 30.3 90.9

Manual Integrations
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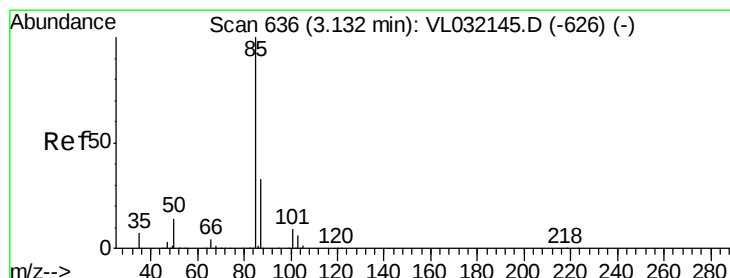
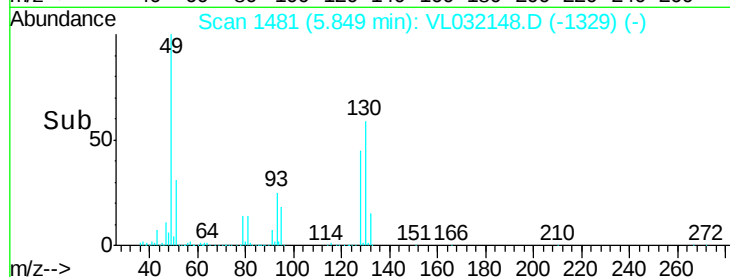
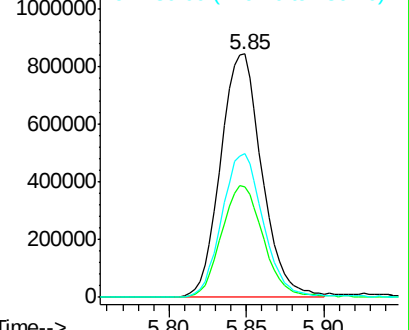
7/2/2018 4:25:00 PM



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: 0.84 ppbv

RT: 3.14 min Scan# 637

Delta R.T. -0.01 min

Lab File: VL032148.D

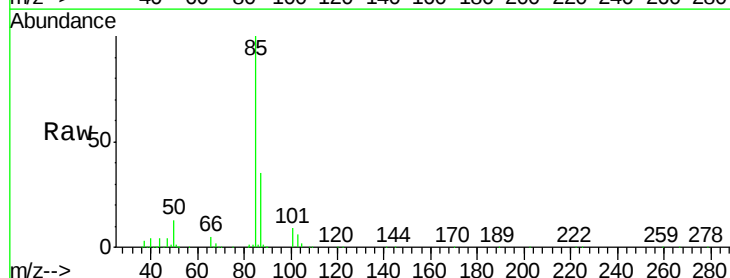
Acq: 29 Jun 2018 19:59

Tgt Ion: 85 Resp: 138288

Ion Ratio Lower Upper

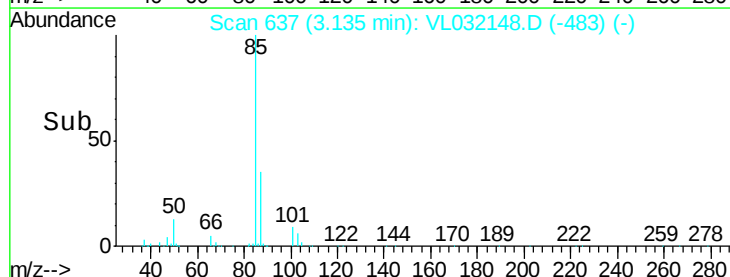
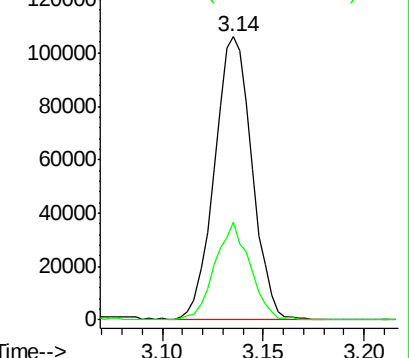
85 100

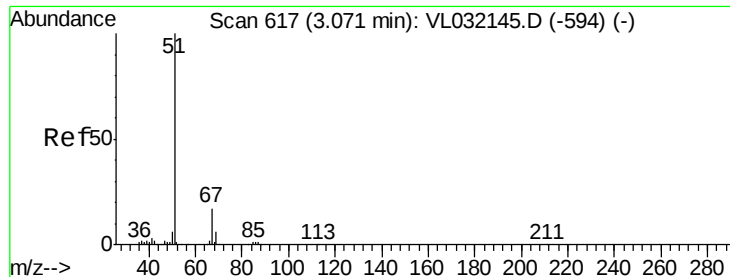
87 34.5 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.50 ppbv

RT: 3.07 min Scan# 618

Delta R.T. -0.00 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 51 Resp: 102131

Ion Ratio Lower Upper

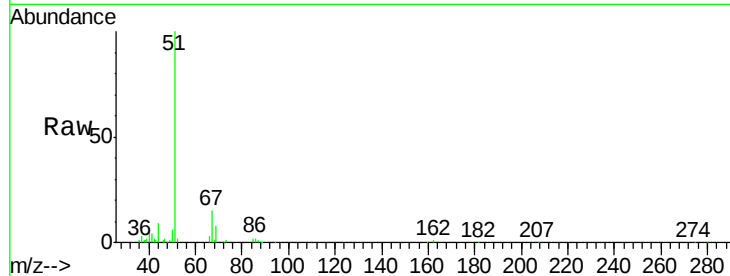
51 100

67 18.2 13.2 19.8

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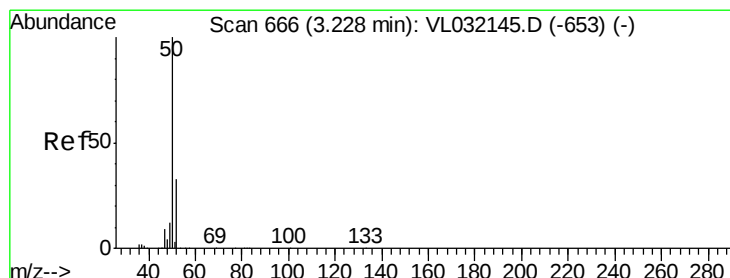
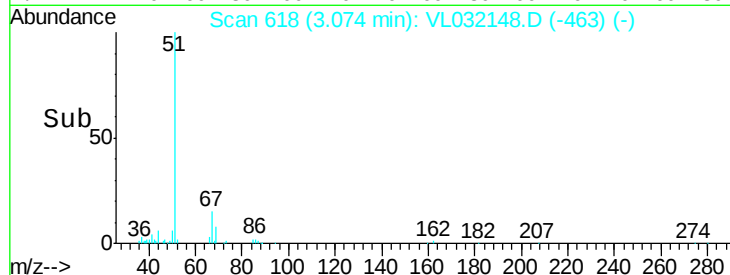
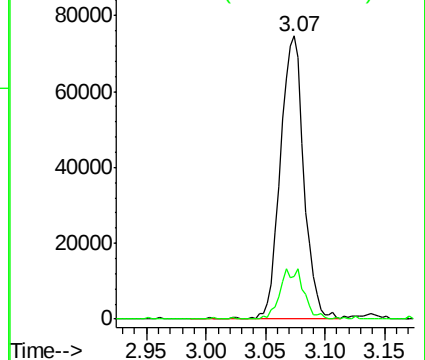
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.48 ppbv

RT: 3.23 min Scan# 666

Delta R.T. -0.01 min

Lab File: VL032148.D

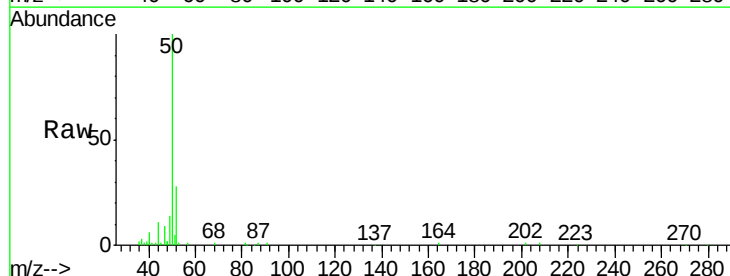
Acq: 29 Jun 2018 19:59

Tgt Ion: 50 Resp: 52529

Ion Ratio Lower Upper

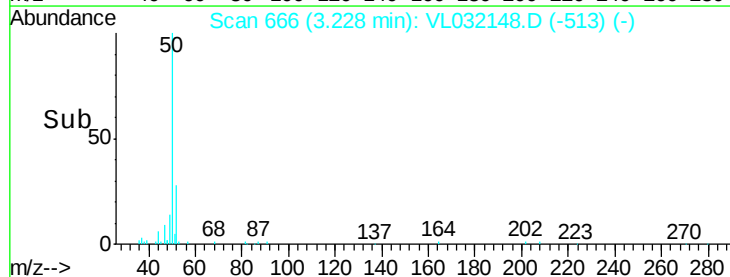
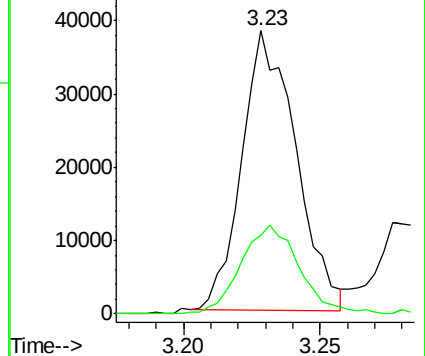
50 100

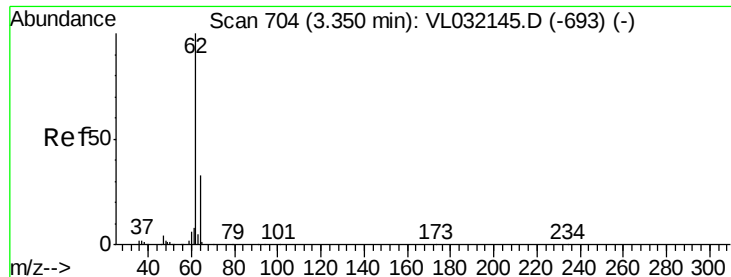
52 27.5 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.46 ppbv

RT: 3.35 min Scan# 705

Delta R.T. -0.00 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 51757

Ion Ratio Lower Upper

62 100

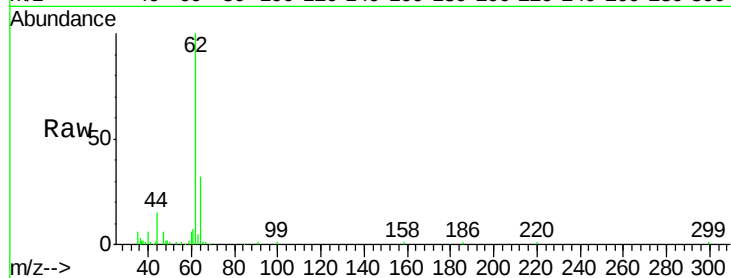
64 31.8 26.1 39.1

Manual Integrations

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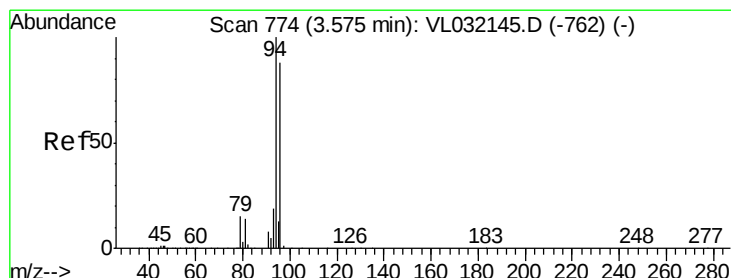
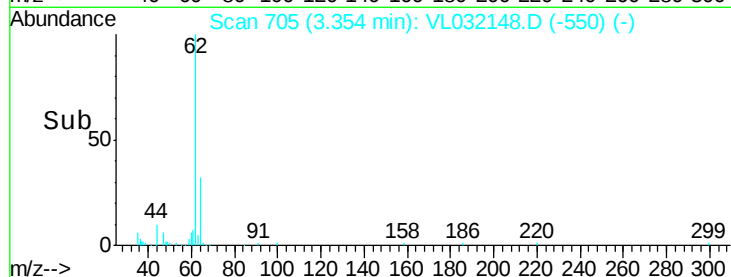
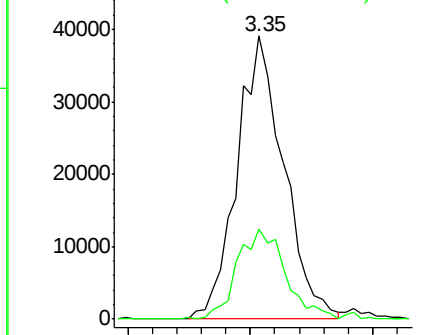
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.49 ppbv

RT: 3.58 min Scan# 776

Delta R.T. -0.00 min

Lab File: VL032148.D

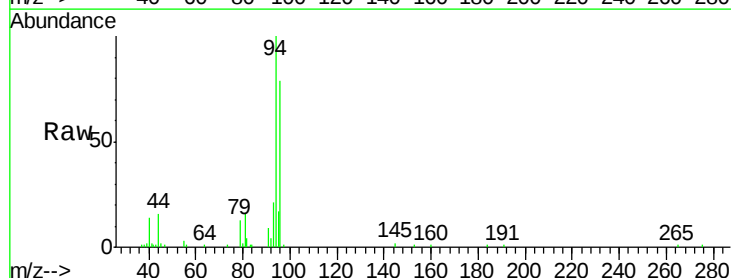
Acq: 29 Jun 2018 19:59

Tgt Ion: 94 Resp: 31940

Ion Ratio Lower Upper

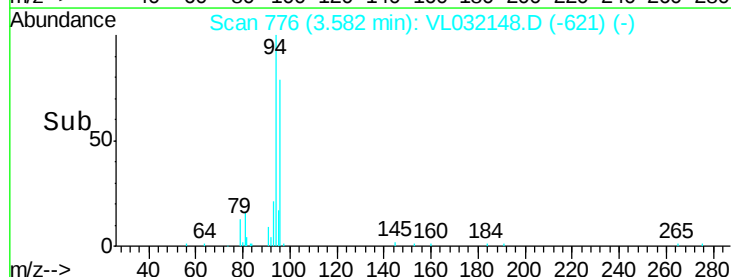
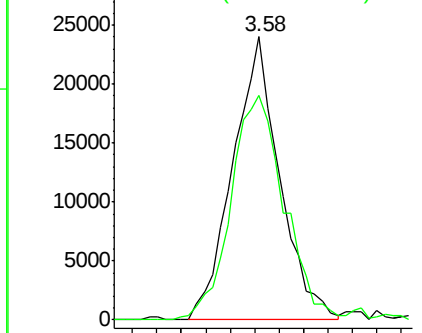
94 100

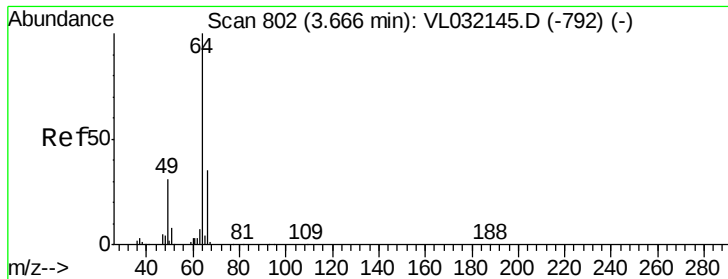
96 77.8 74.7 112.1



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

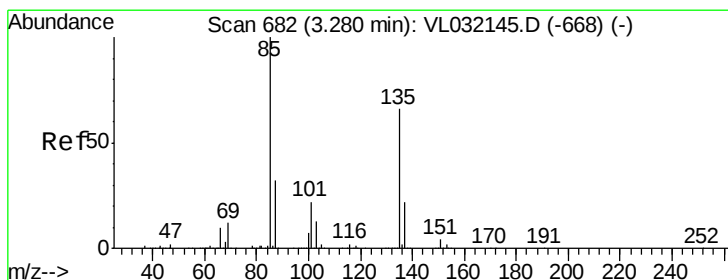
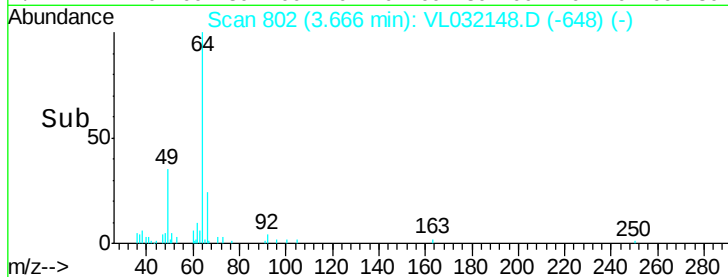
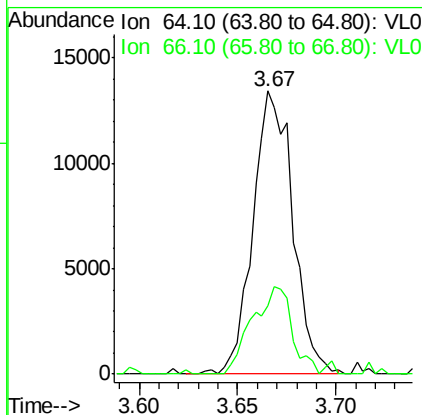
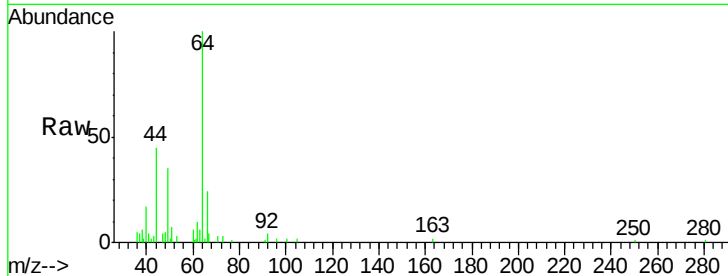
Concen: 0.46 ppbv m
RT: 3.67 min Scan# 802
Delta R.T. -0.01 min
Lab File: VL032148.D
Acq: 29 Jun 2018 19:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	64.10	Resp	19000
Ion Ratio	Lower	Upper	
64	100		
66	24.1	26.9	40.3#

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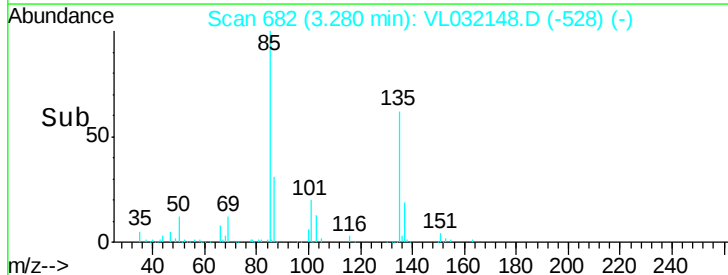
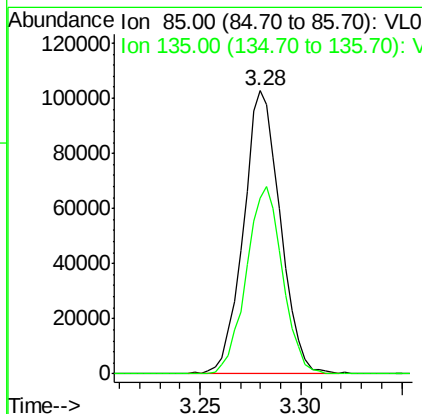
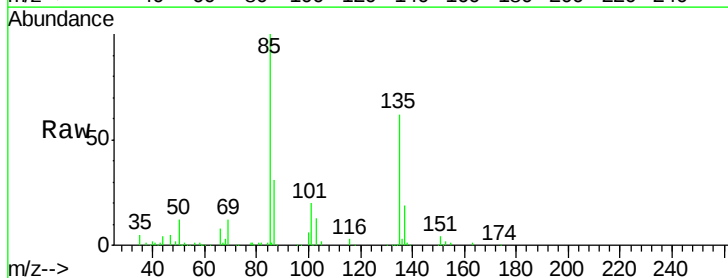


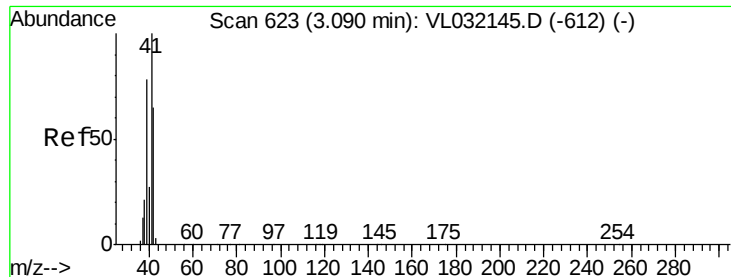
#8

Dichlorotetrafluoroethane

Concen: 0.58 ppbv
RT: 3.28 min Scan# 682
Delta R.T. -0.01 min
Lab File: VL032148.D
Acq: 29 Jun 2018 19:59

Tgt Ion	85	Resp	131453
Ion Ratio	Lower	Upper	
85	100		
135	64.9	54.6	82.0





#9

Propene

Concen: 0.48 ppbv

RT: 3.09 min Scan# 624

Delta R.T. -0.01 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 41 Resp: 47311

Ion Ratio Lower Upper

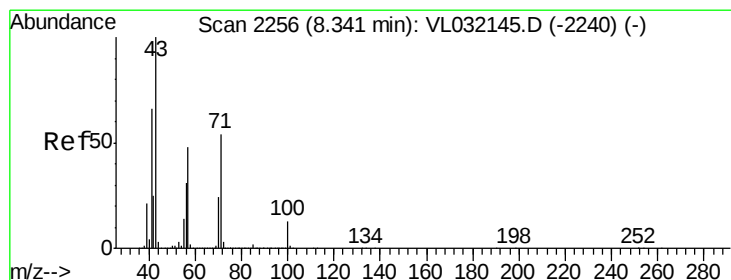
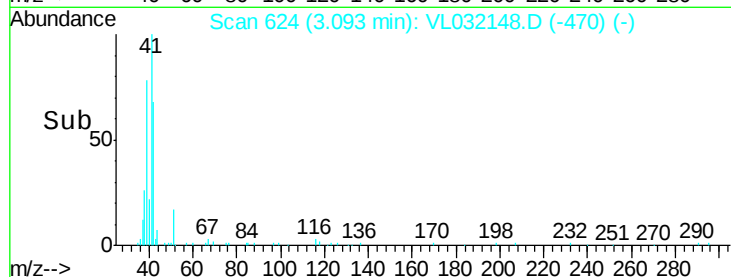
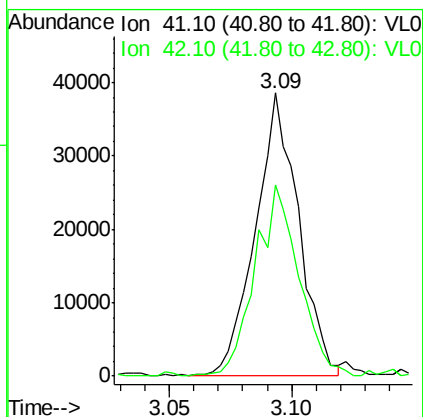
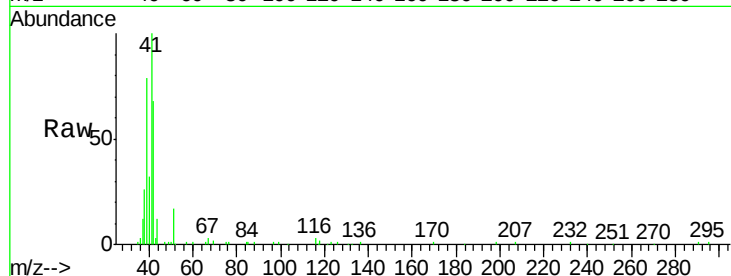
41 100

42 70.5 56.2 84.4

Manual Integrations
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7/2/2018 4:25:00 PM



#10

Heptane

Concen: 0.50 ppbv

RT: 8.34 min Scan# 2257

Delta R.T. -0.01 min

Lab File: VL032148.D

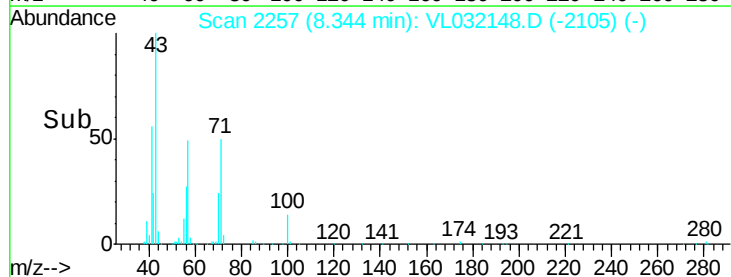
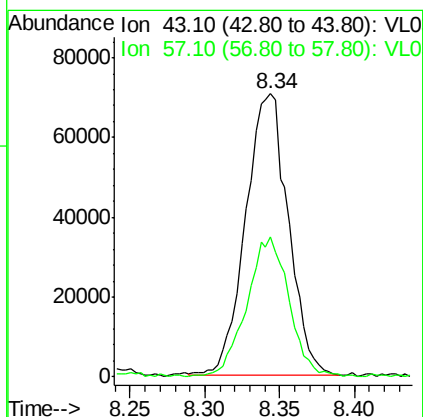
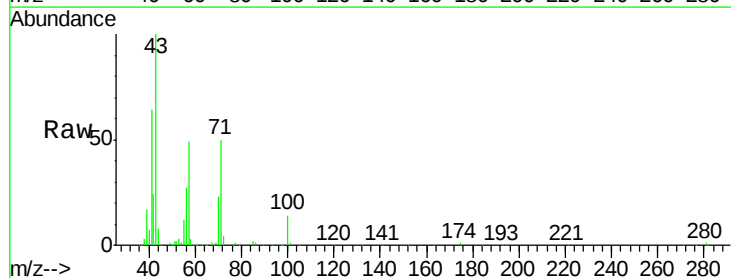
Acq: 29 Jun 2018 19:59

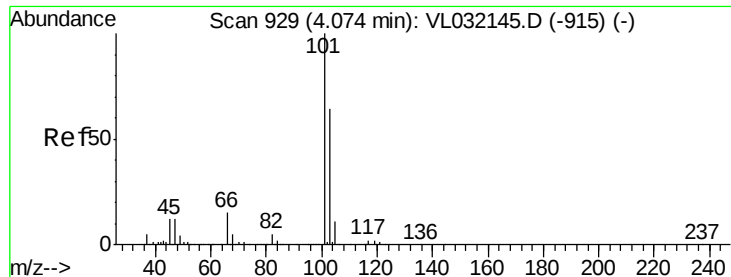
Tgt Ion: 43 Resp: 140628

Ion Ratio Lower Upper

43 100

57 49.1 39.8 59.8





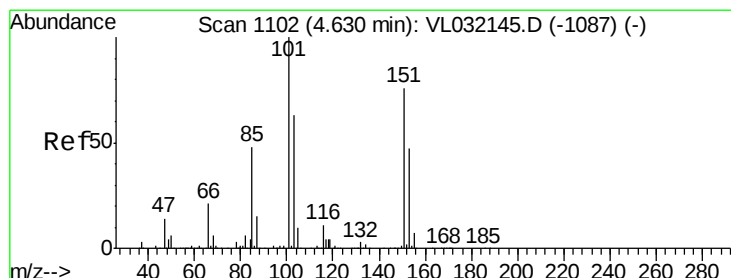
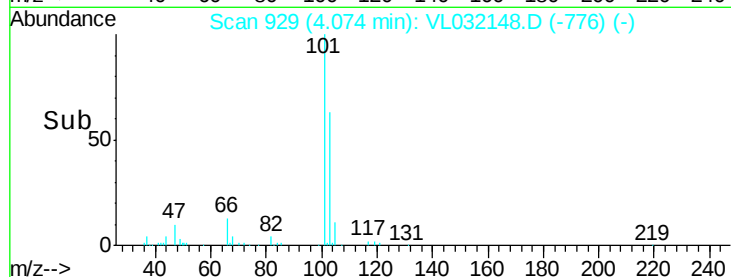
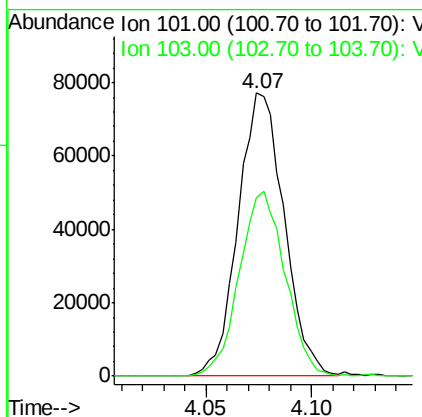
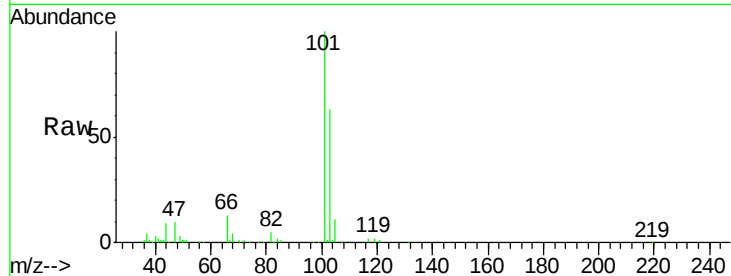
#11
 Trichlorofluoromethane
 Concen: 0.54 ppbv
 RT: 4.07 min Scan# 929
 Delta R.T. -0.01 min
 Lab File: VL032148.D
 Acq: 29 Jun 2018 19:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion:101 Resp: 117265
 Ion Ratio Lower Upper
 101 100
 103 62.8 51.4 77.0

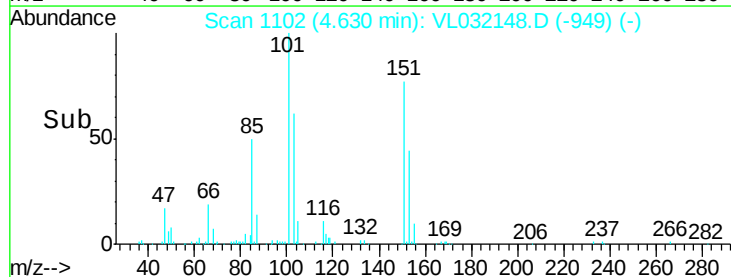
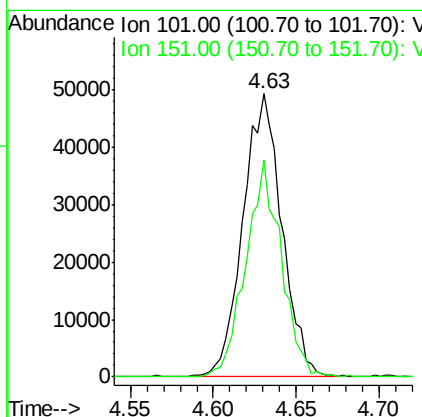
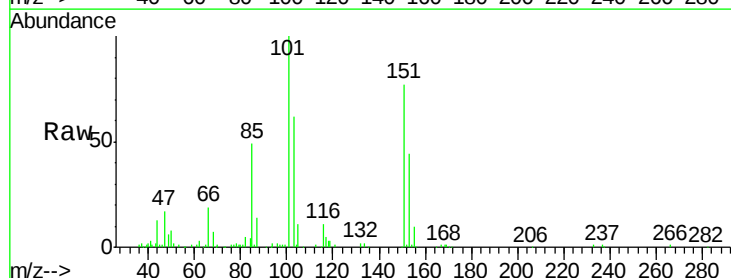
Manual Integrations
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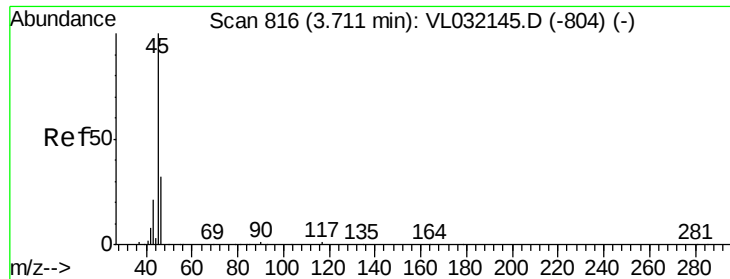
MMDadoda
 7/2/2018 4:25:00 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.55 ppbv
 RT: 4.63 min Scan# 1102
 Delta R.T. -0.01 min
 Lab File: VL032148.D
 Acq: 29 Jun 2018 19:59

Tgt Ion:101 Resp: 80312
 Ion Ratio Lower Upper
 101 100
 151 69.8 58.8 88.2





#13

Ethanol

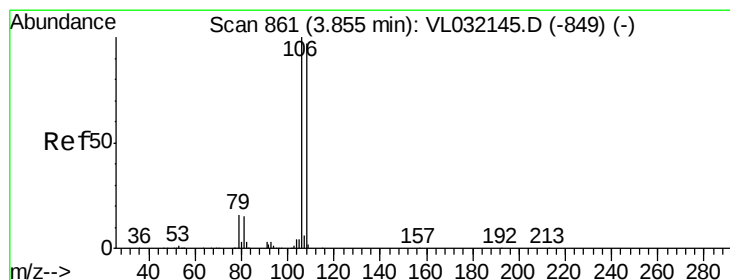
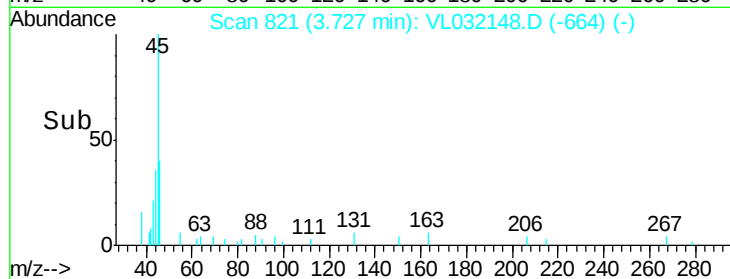
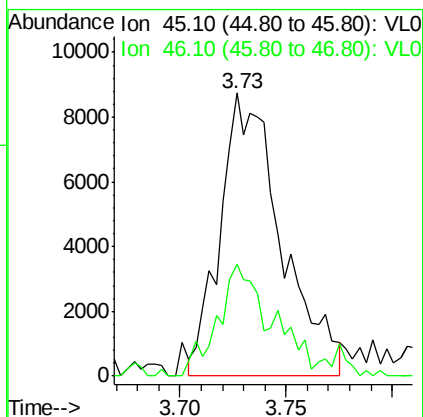
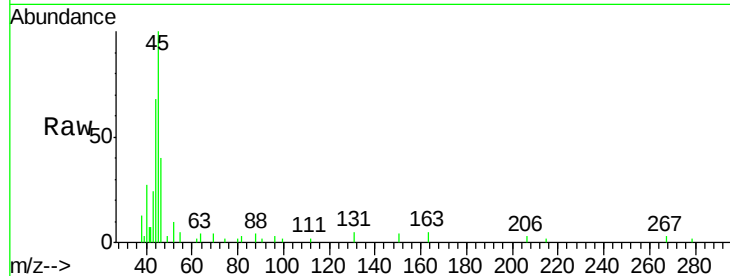
Concen: 0.59 ppbv m
RT: 3.73 min Scan# 821
Delta R.T. 0.00 min
Lab File: VL032148.D
Acq: 29 Jun 2018 19:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
45	100		
46	39.4	14.6	58.4

Manual Integrations
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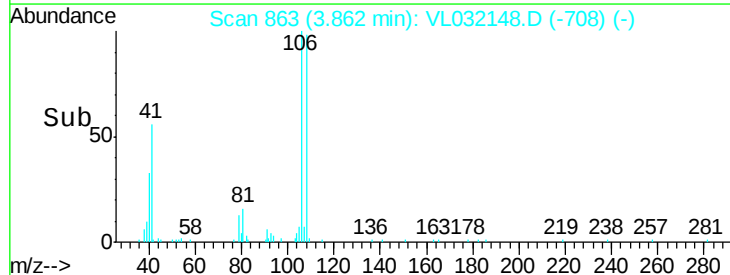
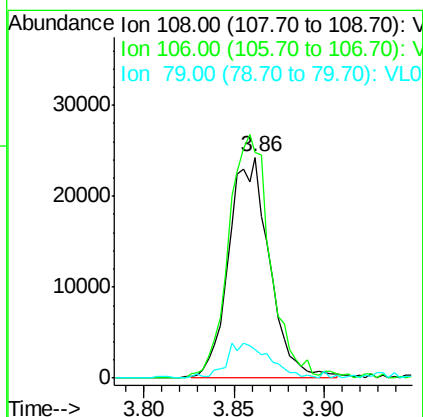
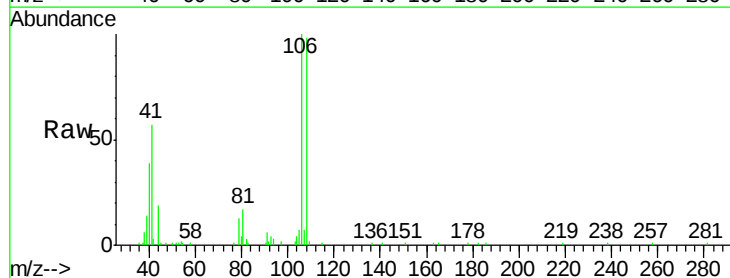


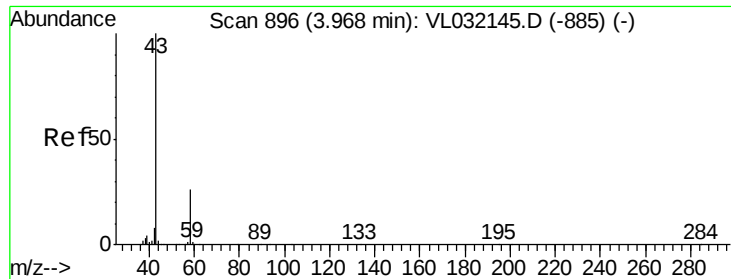
#14

Bromoethene

Concen: 0.52 ppbv m
RT: 3.86 min Scan# 863
Delta R.T. -0.00 min
Lab File: VL032148.D
Acq: 29 Jun 2018 19:59

Tgt Ion	Ratio	Lower	Upper
108	100		
106	114.2	86.3	129.5
79	0.0	12.7	19.1#





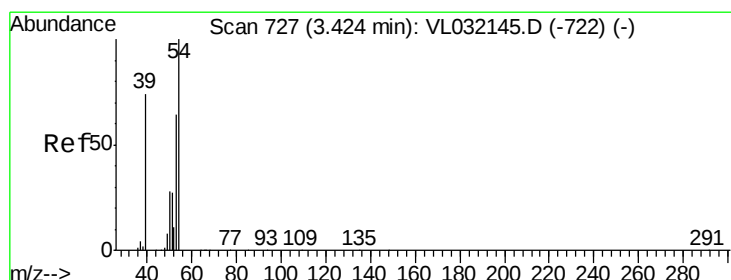
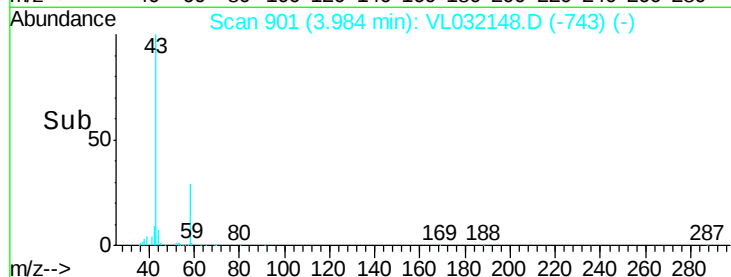
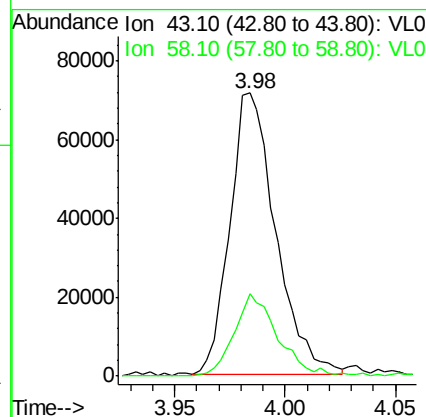
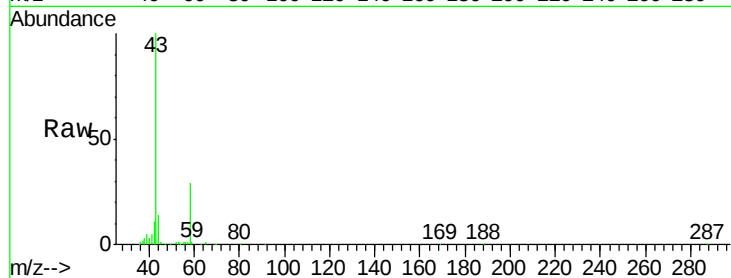
#15
Acetone
Concen: 0.49 ppbv
RT: 3.98 min Scan# 901
Delta R.T. 0.01 min
Lab File: VL032148.D
Acq: 29 Jun 2018 19:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
43	100		
58	28.2	21.4	32.0

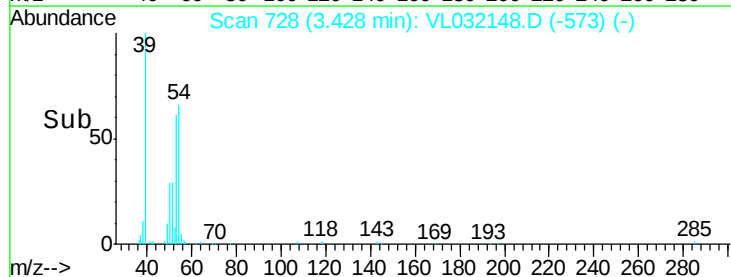
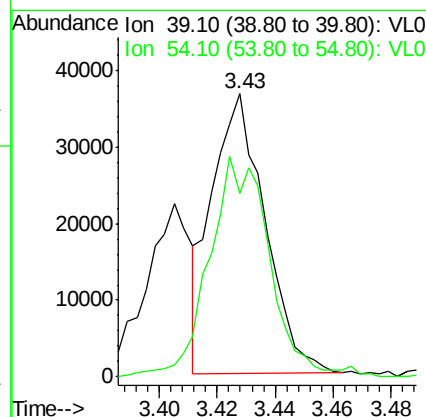
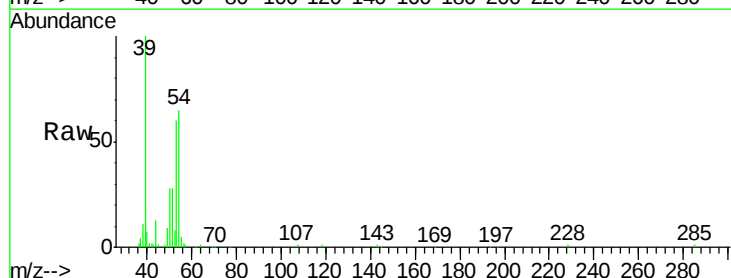
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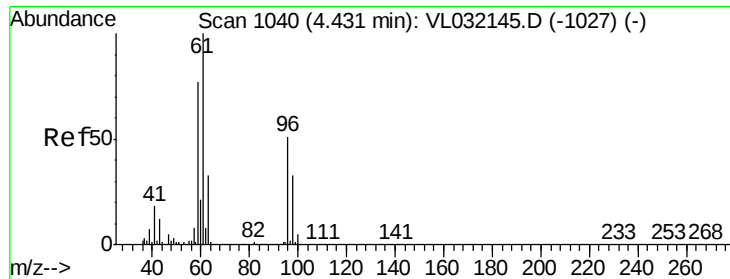
MMDadoda
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#16
1,3-Butadiene
Concen: 0.47 ppbv
RT: 3.43 min Scan# 728
Delta R.T. -0.00 min
Lab File: VL032148.D
Acq: 29 Jun 2018 19:59

Tgt Ion	Ratio	Lower	Upper
39	100		
54	90.0	75.8	113.6





#17

tert-Butyl alcohol

Concen: 0.50 ppbv m

RT: 4.45 min Scan# 1046

Delta R.T. 0.01 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 59 Resp: 62928

Ion Ratio Lower Upper

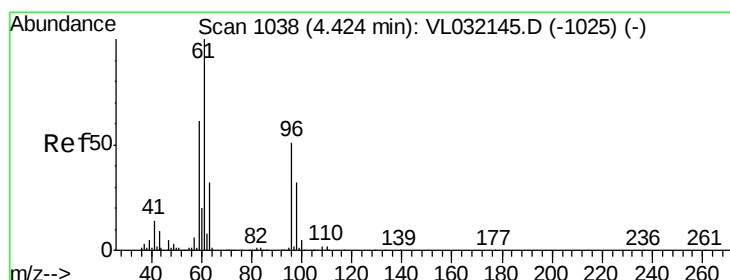
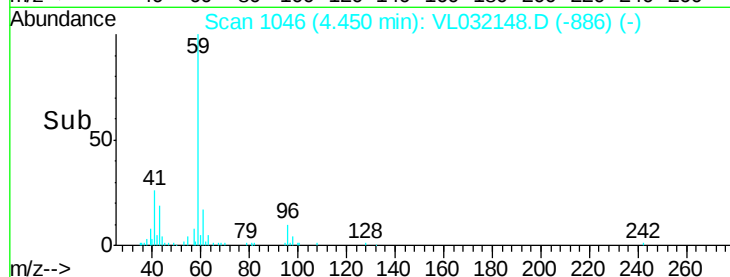
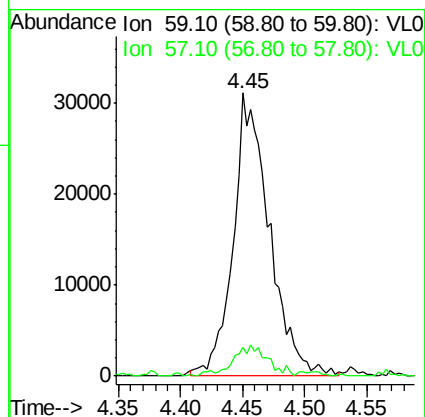
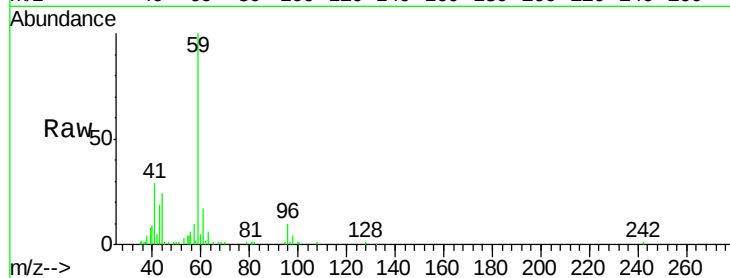
59 100

57 0.0 8.2 12.2#

Manual Integrations
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#18

1,1-Dichloroethene

Concen: 0.54 ppbv

RT: 4.43 min Scan# 1040

Delta R.T. -0.00 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

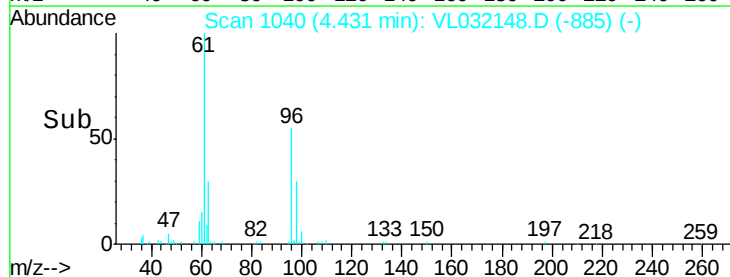
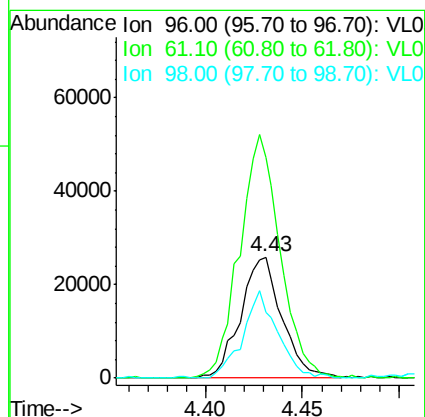
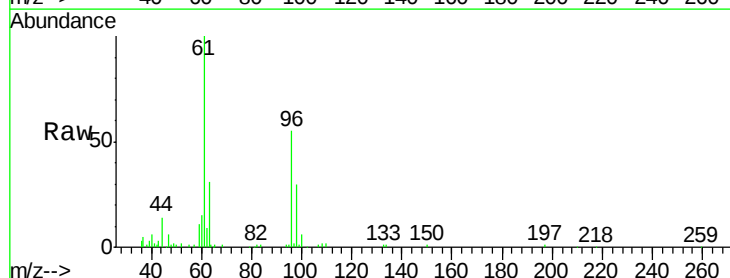
Tgt Ion: 96 Resp: 38633

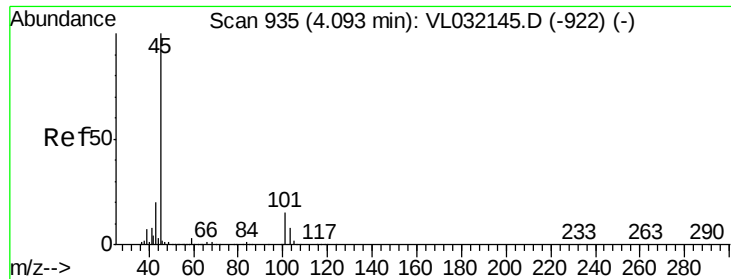
Ion Ratio Lower Upper

96 100

61 181.5 154.1 231.1

98 54.6 50.3 75.5





#19

Isopropyl Alcohol

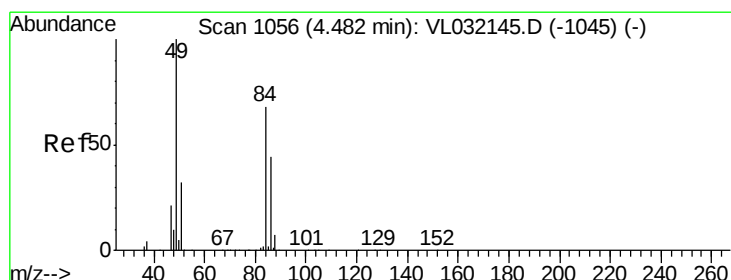
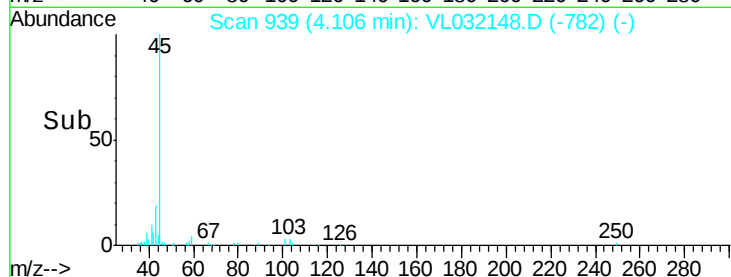
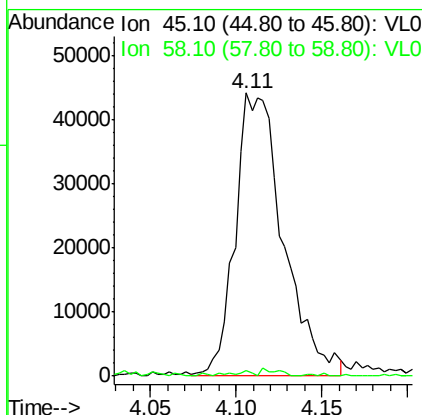
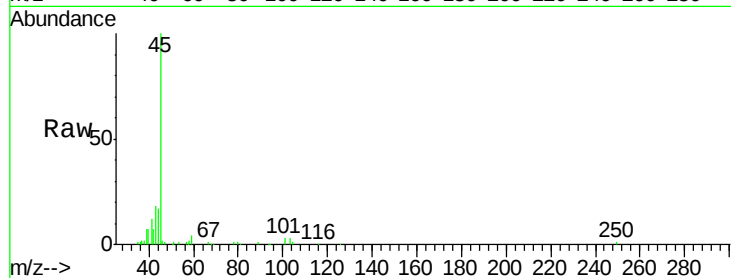
Concen: 0.52 ppbv m
 RT: 4.11 min Scan# 939
 Delta R.T. 0.00 min
 Lab File: VL032148.D
 Acq: 29 Jun 2018 19:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
45	100		
58	2.2	29.4	44.0#

Manual Integrations
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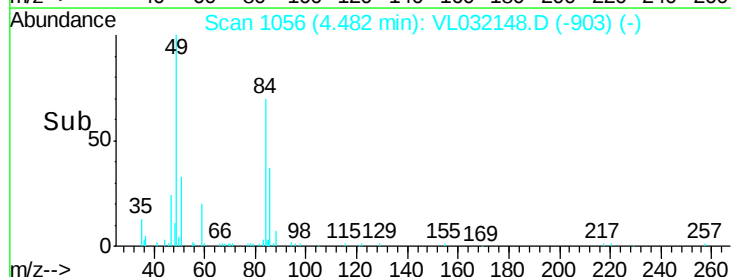
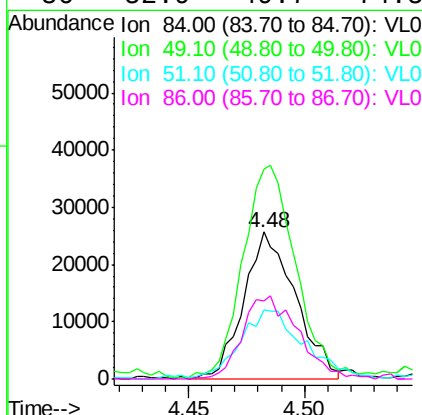
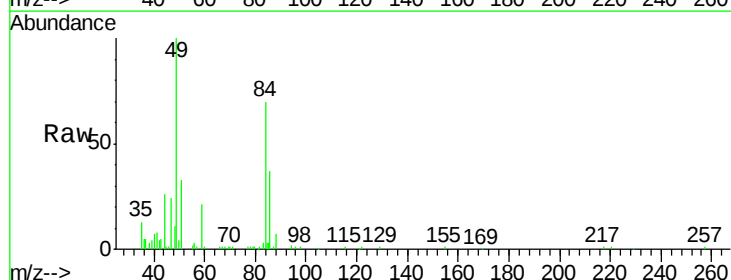


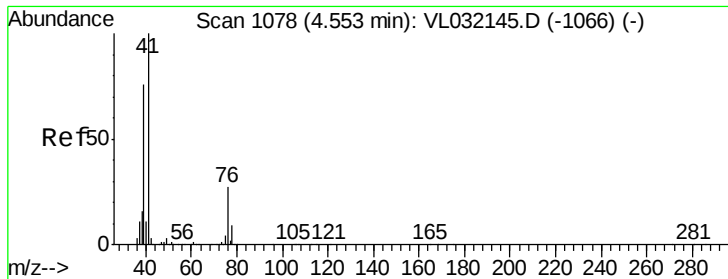
#20

Methylene Chloride

Concen: 0.57 ppbv
 RT: 4.48 min Scan# 1056
 Delta R.T. -0.01 min
 Lab File: VL032148.D
 Acq: 29 Jun 2018 19:59

Tgt Ion	Ratio	Lower	Upper
84	100		
49	141.5	119.6	179.4
51	46.2	36.3	54.5
86	52.9	49.7	74.5





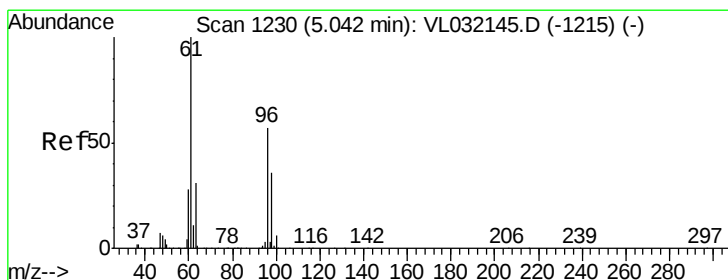
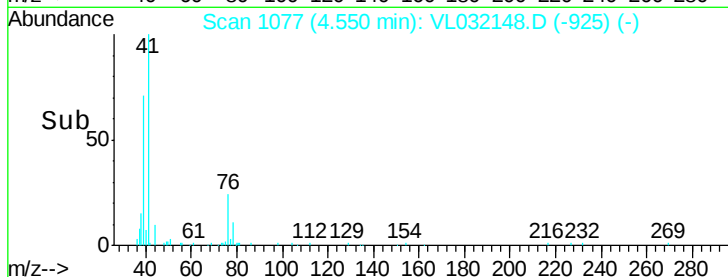
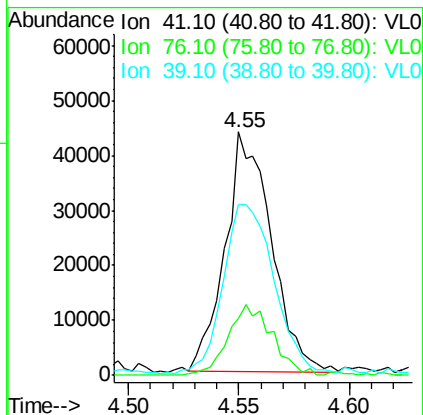
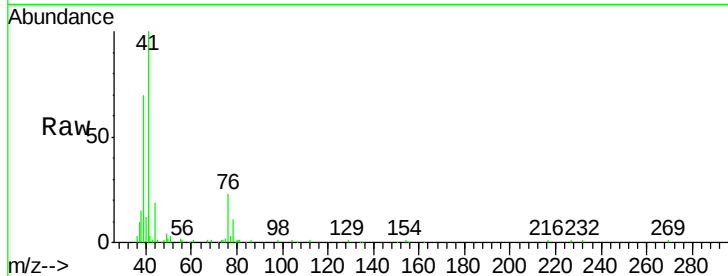
#21
Allvl Chloride
Concen: 0.49 ppbv
RT: 4.55 min Scan# 1077
Delta R.T. -0.01 min
Lab File: VL032148.D
Acq: 29 Jun 2018 19:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
41	100		
76	29.1	22.5	33.7
39	82.9	60.5	90.7

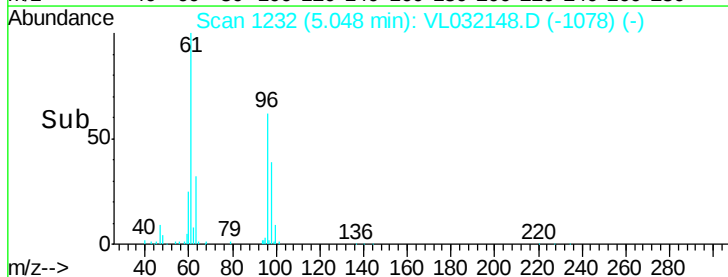
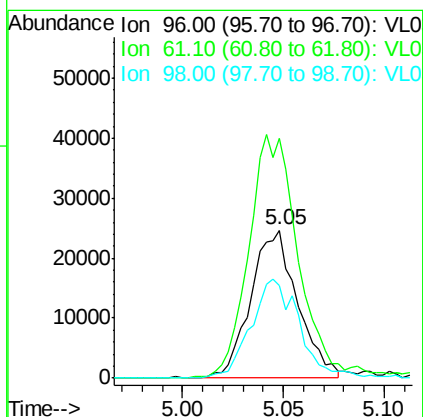
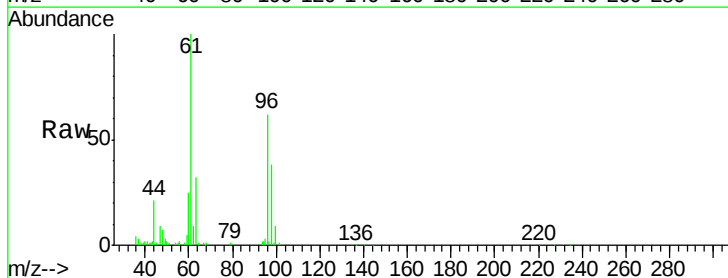
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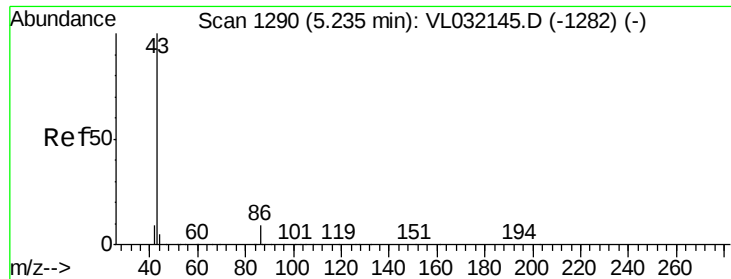
MMDadoda
7/2/2018 4:25:00 PM



#22
trans-1,2-Dichloroethene
Concen: 0.54 ppbv
RT: 5.05 min Scan# 1232
Delta R.T. -0.01 min
Lab File: VL032148.D
Acq: 29 Jun 2018 19:59

Tgt Ion	Ratio	Lower	Upper
96	100		
61	162.4	135.2	202.8
98	62.5	49.7	74.5





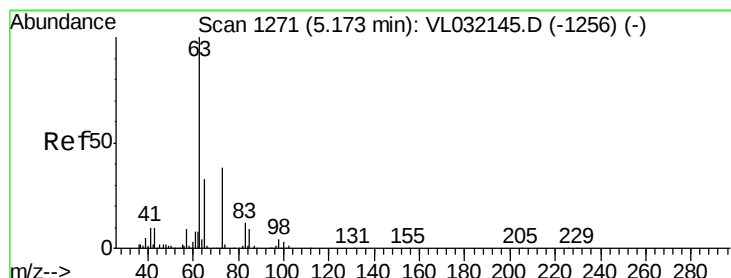
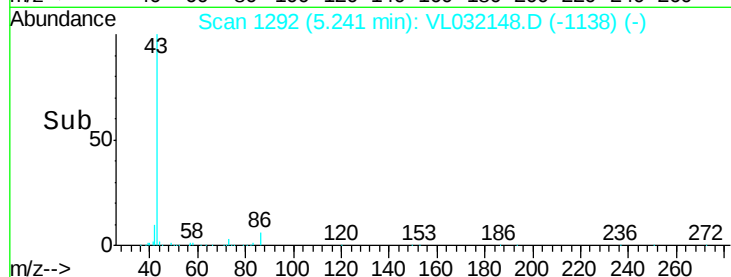
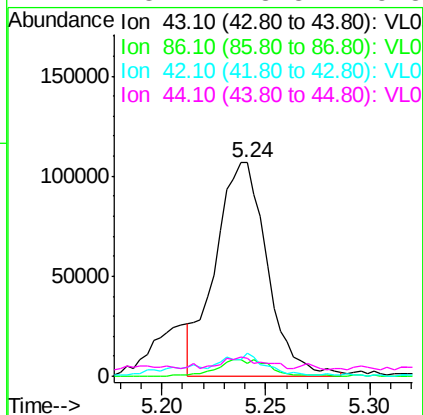
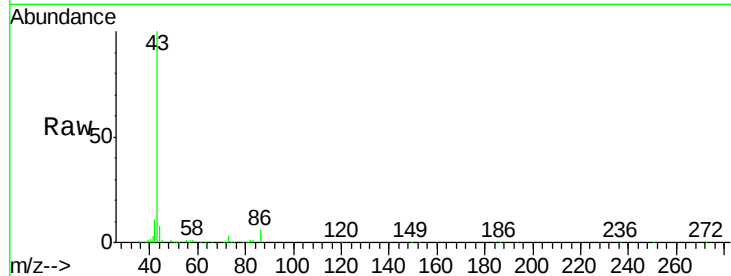
#23
 Vinyl Acetate
 Concen: 0.58 ppbv m
 RT: 5.24 min Scan# 1292
 Delta R.T. -0.01 min
 Lab File: VL032148.D
 Acq: 29 Jun 2018 19:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	43	Resp	185211
Ion Ratio	Lower	Upper	
43	100		
86	5.8	6.2	9.4#
42	11.0	6.9	10.3#
44	8.2	3.8	5.8#

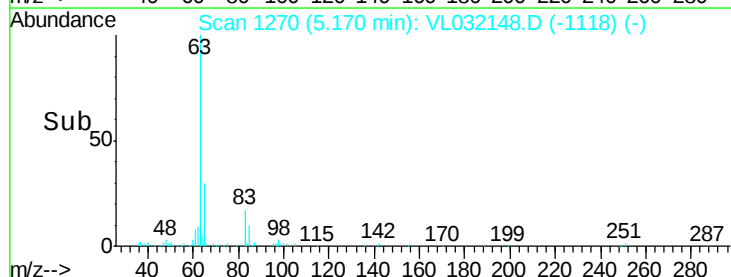
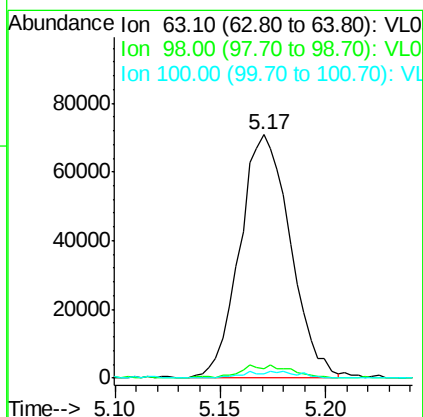
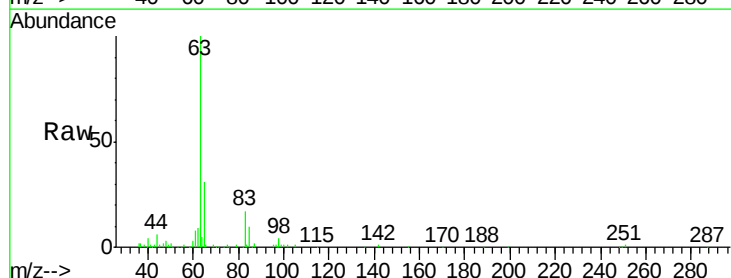
Manual Integrations
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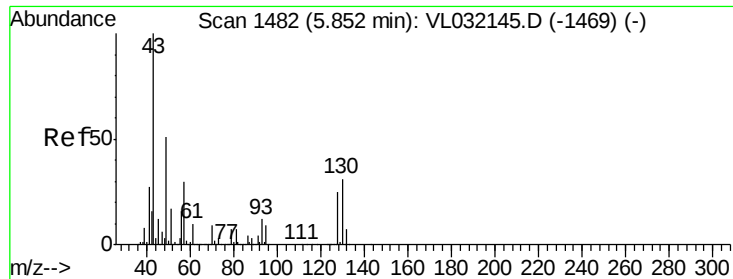
MMDadoda
 7/2/2018 4:25:00 PM



#24
 1,1-Dichloroethane
 Concen: 0.49 ppbv
 RT: 5.17 min Scan# 1270
 Delta R.T. -0.01 min
 Lab File: VL032148.D
 Acq: 29 Jun 2018 19:59

Tgt Ion	63	Resp	117885
Ion Ratio	Lower	Upper	
63	100		
98	3.6	2.4	7.2
100	1.5	1.7	5.0#





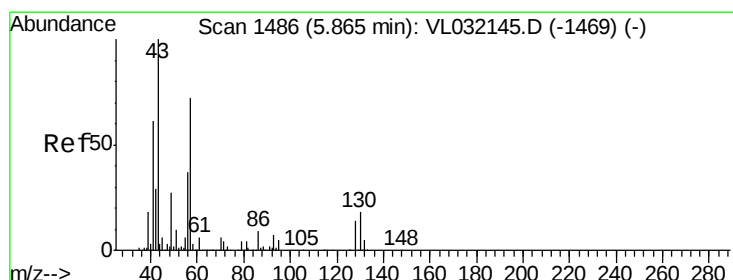
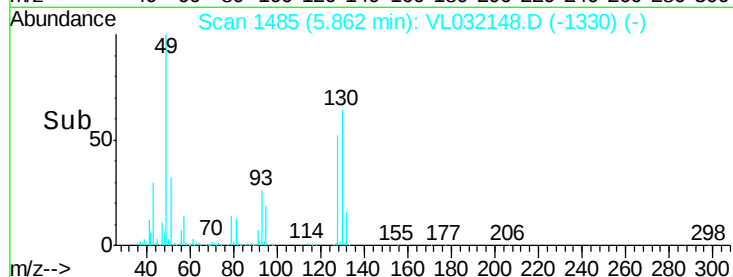
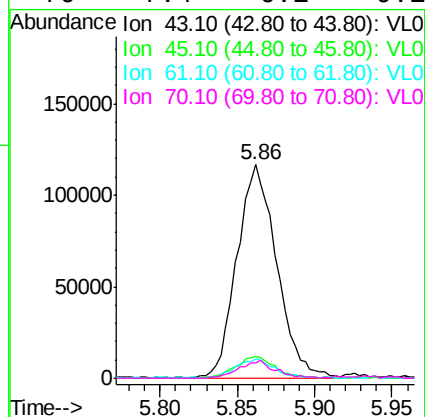
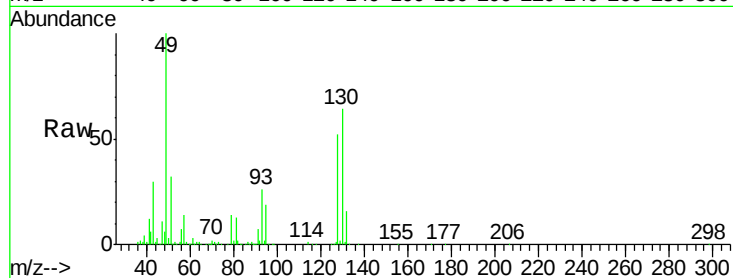
#25
Ethyl Acetate
Concen: 0.45 ppbv
RT: 5.86 min Scan# 1485
Delta R.T. -0.00 min
Lab File: VL032148.D
Acq: 29 Jun 2018 19:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	43	Resp	207788
Ion	Ratio	Lower	Upper
43	100		
45	10.3	7.8	11.8
61	9.5	7.4	11.0
70	7.4	6.1	9.1

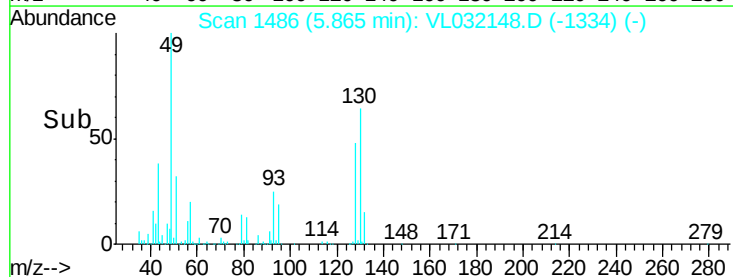
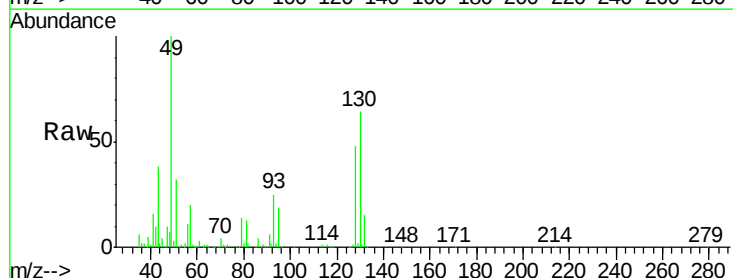
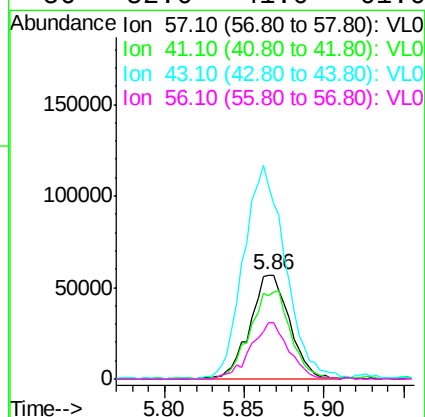
Manual Integrations
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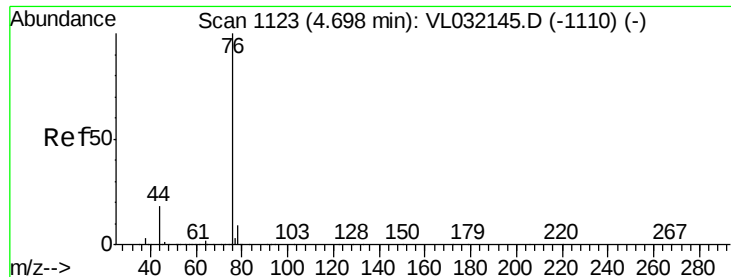
MMDadoda
7/2/2018 4:25:00 PM



#26
Hexane
Concen: 0.48 ppbv
RT: 5.86 min Scan# 1486
Delta R.T. -0.01 min
Lab File: VL032148.D
Acq: 29 Jun 2018 19:59

Tgt Ion	57	Resp	96619
Ion	Ratio	Lower	Upper
57	100		
41	88.2	68.6	103.0
43	217.5	168.6	252.8
56	52.6	41.0	61.6





#27

Carbon Disulfide

Concen: 0.41 ppbv

RT: 4.70 min Scan# 1125

Delta R.T. -0.00 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Instrument :

MSVOA_L

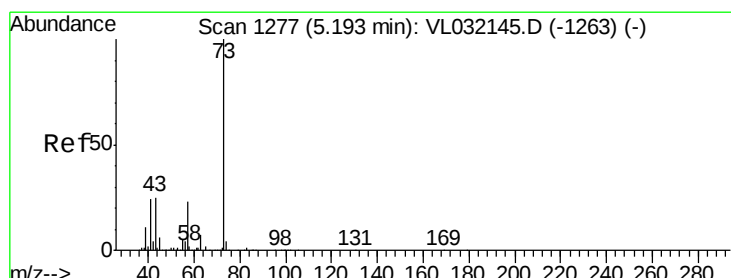
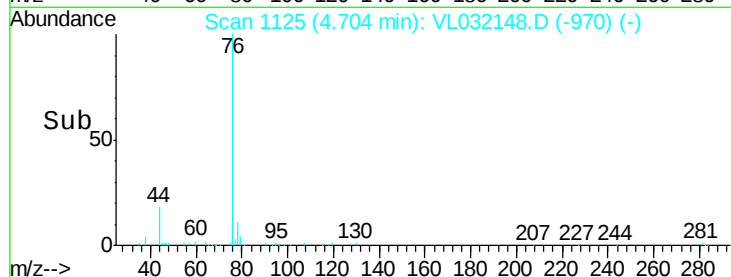
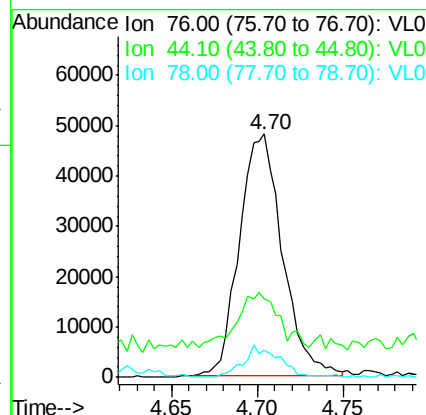
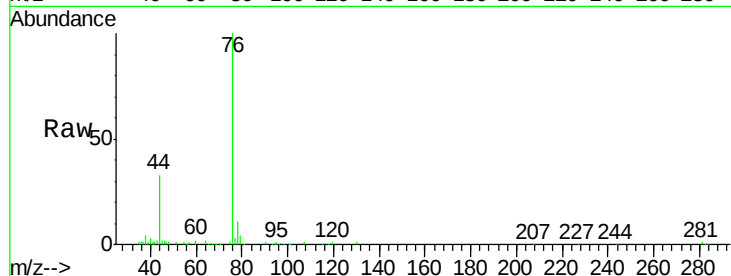
ClientSampleId :

VSTDIC0.5

Tot Ion:	76	Resp:	83437
Ion Ratio	Lower	Upper	
76	100		
44	37.0	15.1	22.7#
78	11.4	7.2	10.8#

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#28

Methyl tert-Butyl Ether

Concen: 0.67 ppbv

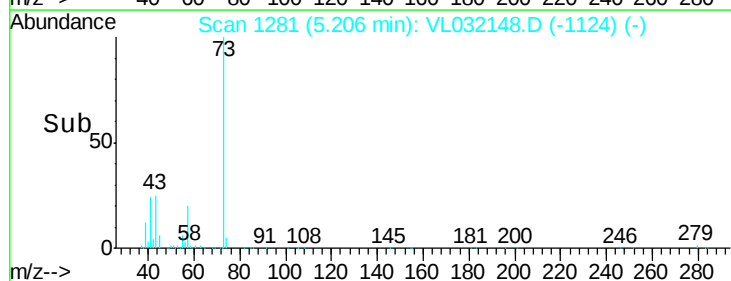
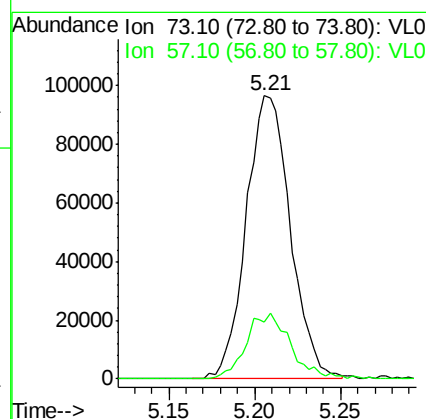
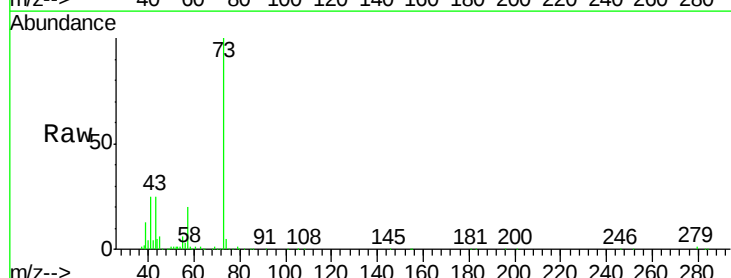
RT: 5.21 min Scan# 1281

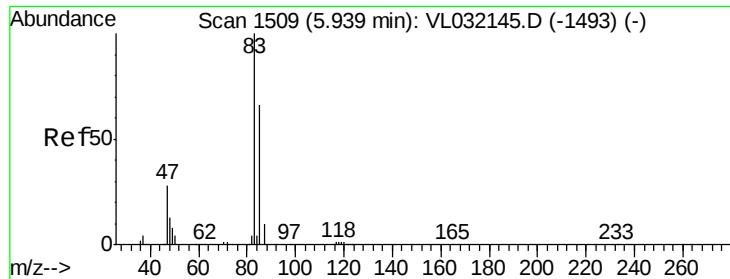
Delta R.T. 0.00 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Tgt Ion:	73	Resp:	171605
Ion Ratio	Lower	Upper	
73	100		
57	23.6	18.6	27.8





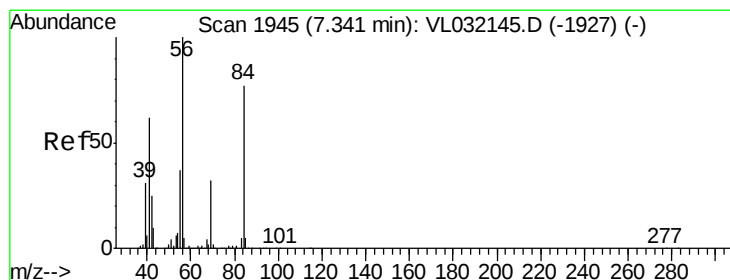
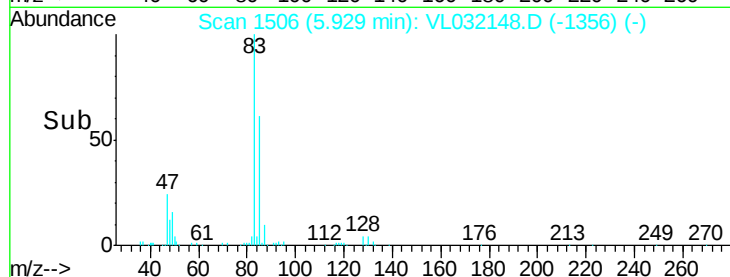
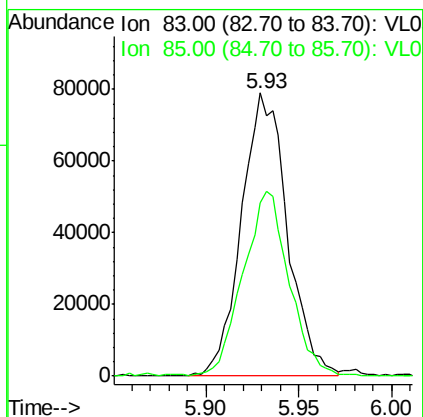
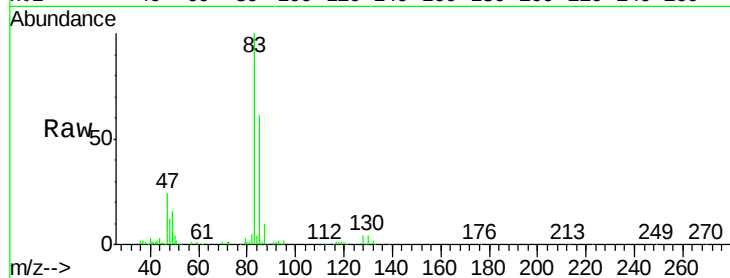
#29
Chloroform
Concen: 0.51 ppbv
RT: 5.93 min Scan# 1506
Delta R.T. -0.02 min
Lab File: VL032148.D
Acq: 29 Jun 2018 19:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	83	Resp	136389
Ion Ratio	100	Lower	Upper
85	60.8	51.6	77.4

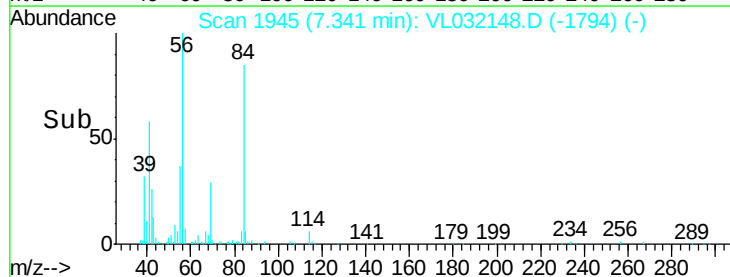
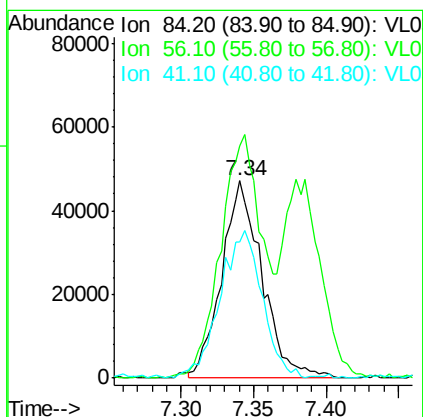
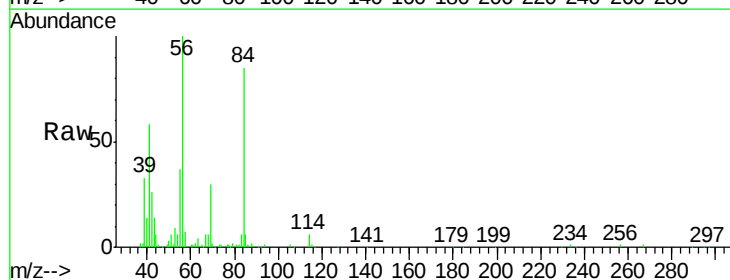
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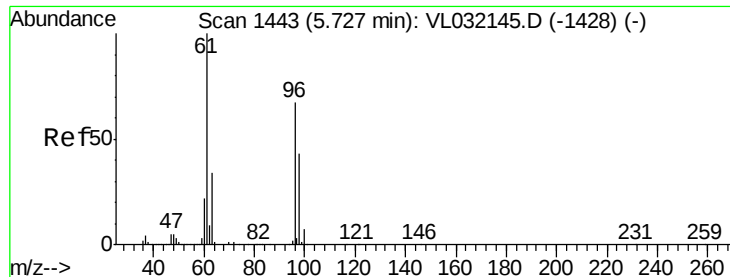
MMDadoda
7/2/2018 4:25:00 PM



#30
Cyclohexane
Concen: 0.55 ppbv
RT: 7.34 min Scan# 1945
Delta R.T. -0.02 min
Lab File: VL032148.D
Acq: 29 Jun 2018 19:59

Tgt Ion	84	Resp	90955
Ion Ratio	100	Lower	Upper
56	125.0	109.1	163.7
41	78.8	64.6	96.8





#31

cis-1,2-Dichloroethene

Concen: 0.51 ppbv m

RT: 5.73 min Scan# 1444

Delta R.T. -0.01 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Instrument :

MSVOA_L

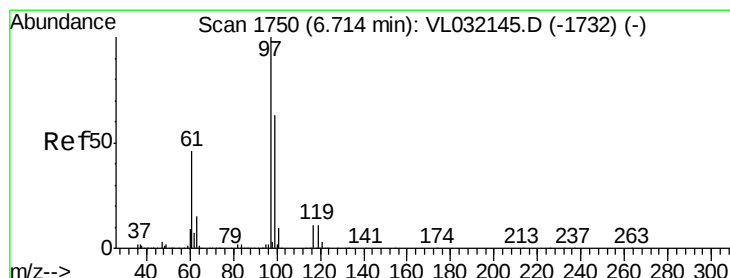
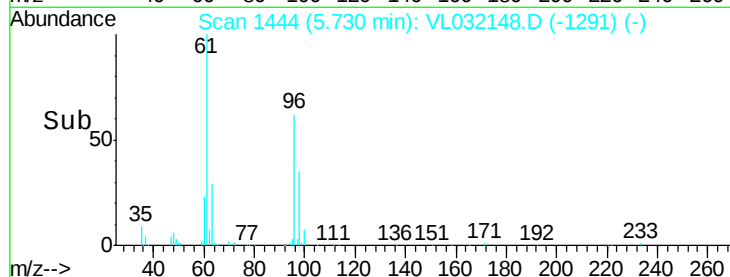
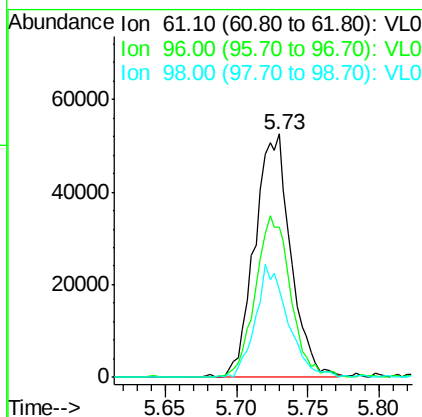
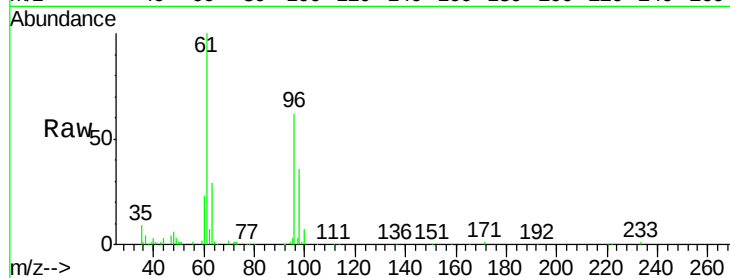
ClientSampleId :

VSTDIC0.5

Tot Ion:	61	Resp:	92252
Ion	Ratio	Lower	Upper
61	100		
96	61.8	54.2	81.4
98	35.7	34.6	52.0

Manual Integrations
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7/2/2018 4:25:00 PM



#32

1,1,1-Trichloroethane

Concen: 0.49 ppbv

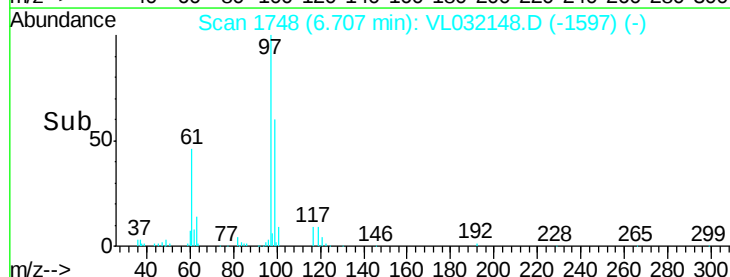
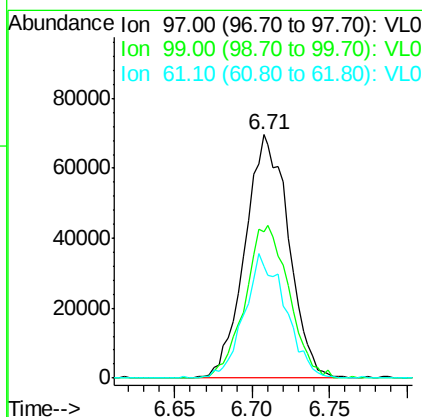
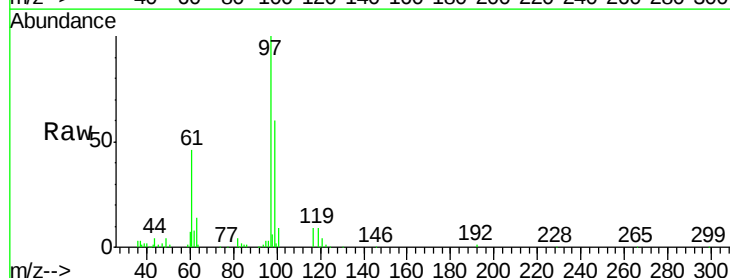
RT: 6.71 min Scan# 1748

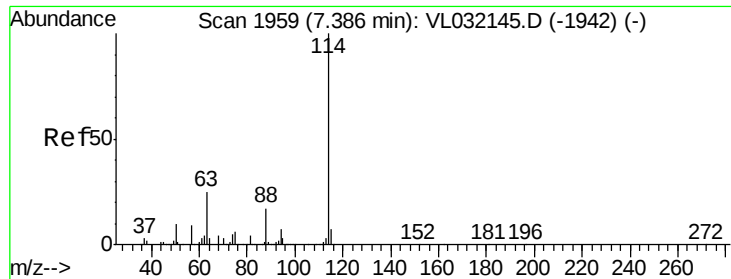
Delta R.T. -0.02 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Tgt Ion:	97	Resp:	137024
Ion	Ratio	Lower	Upper
97	100		
99	63.2	51.3	76.9
61	48.2	38.4	57.6





#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.38 min Scan# 1958
 Delta R.T. -0.02 min
 Lab File: VL032148.D
 Acq: 29 Jun 2018 19:59

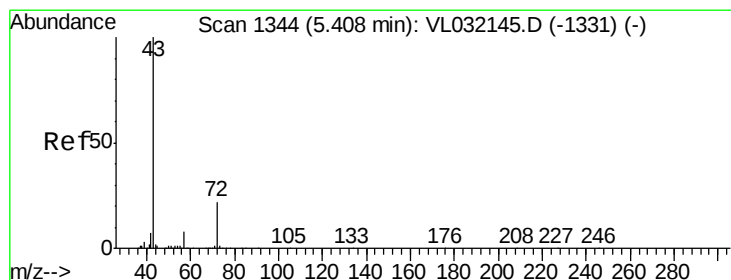
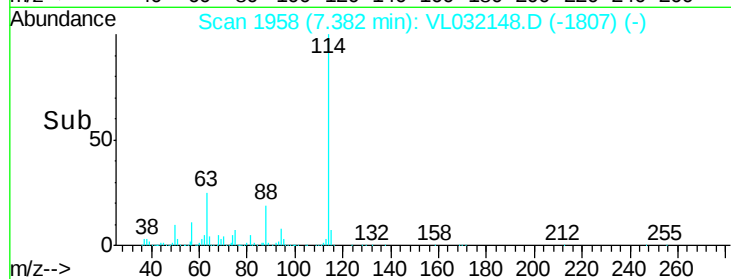
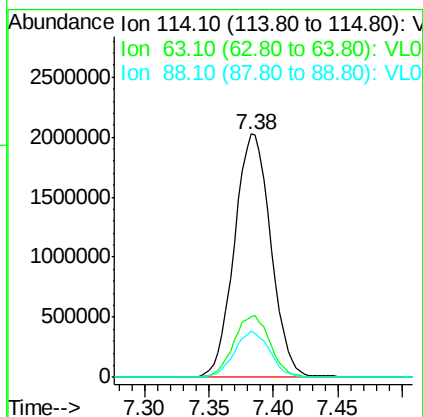
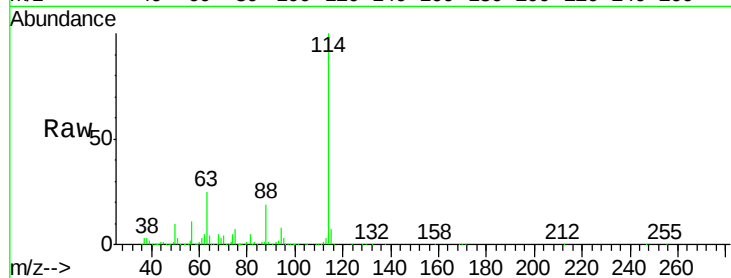
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion:114 Resp: 3985609

Ion	Ratio	Lower	Upper
114	100		
63	25.3	19.1	28.7
88	18.4	13.9	20.9

Manual Integrations
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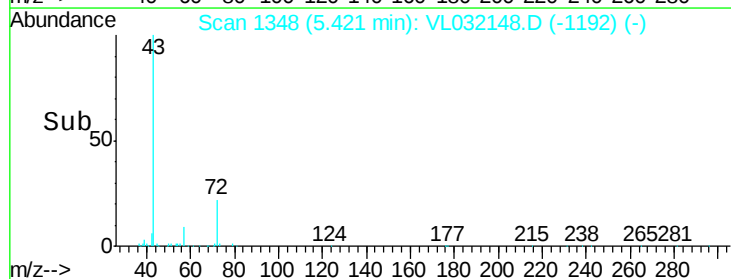
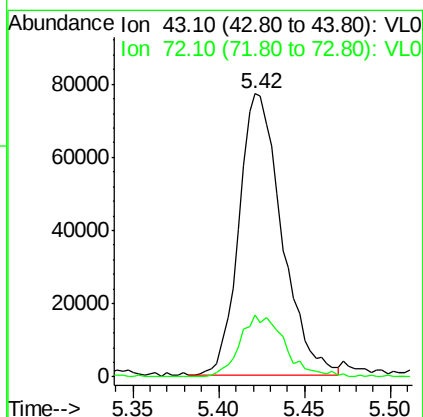
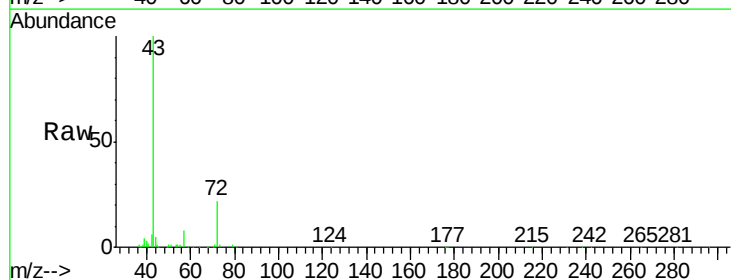
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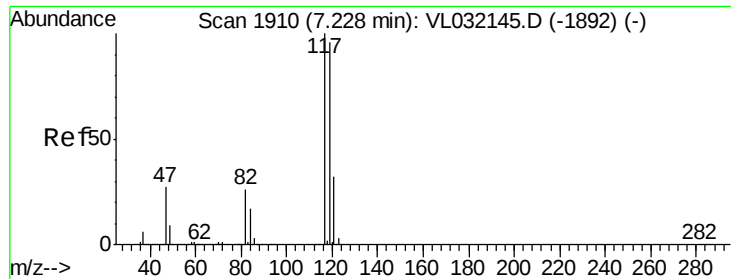


#34
 2-Butanone
 Concen: 0.41 ppbv
 RT: 5.42 min Scan# 1348
 Delta R.T. 0.00 min
 Lab File: VL032148.D
 Acq: 29 Jun 2018 19:59

Tgt Ion: 43 Resp: 134158

Ion	Ratio	Lower	Upper
43	100		
72	22.9	18.4	27.6





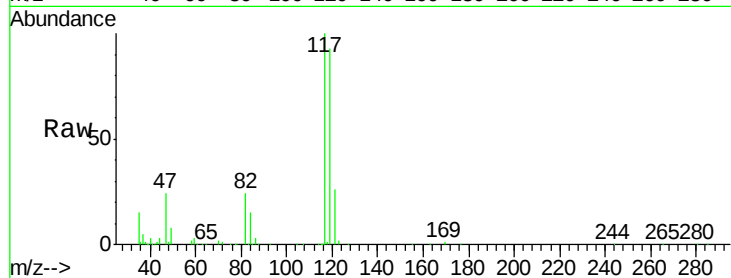
#35
Carbon Tetrachloride
Concen: 0.52 ppbv
RT: 7.23 min Scan# 1910
Delta R.T. -0.01 min
Lab File: VL032148.D
Acq: 29 Jun 2018 19:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
117	100		
119	91.9	74.8	112.2
121	26.2	24.0	36.0

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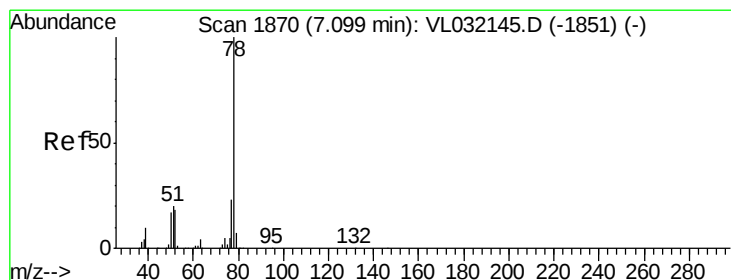
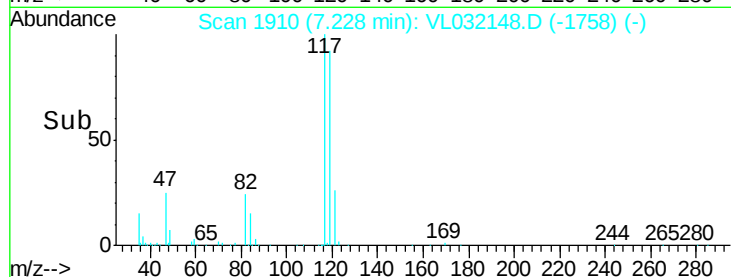
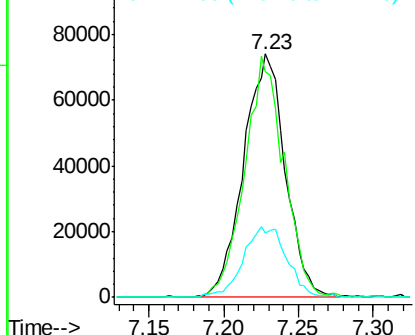


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36
Benzene
Concen: 0.49 ppbv
RT: 7.10 min Scan# 1869
Delta R.T. -0.02 min
Lab File: VL032148.D
Acq: 29 Jun 2018 19:59

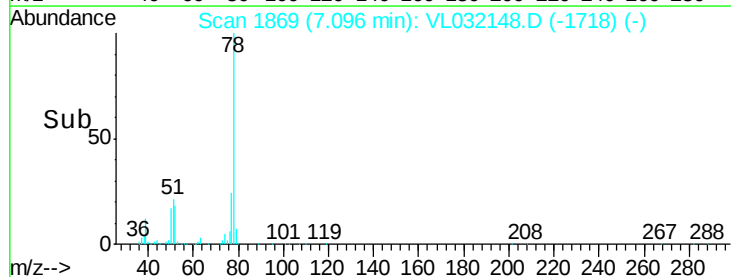
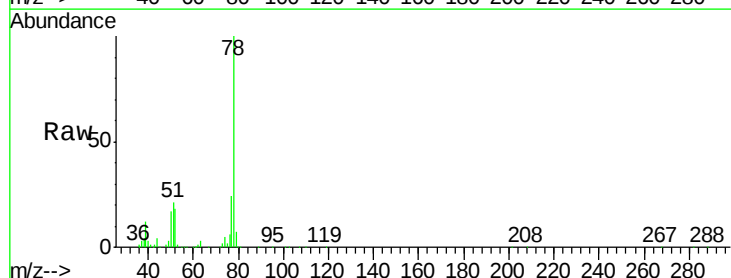
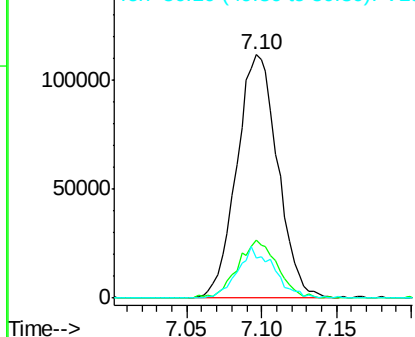
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	17.7	26.5
50	16.3	14.0	21.0

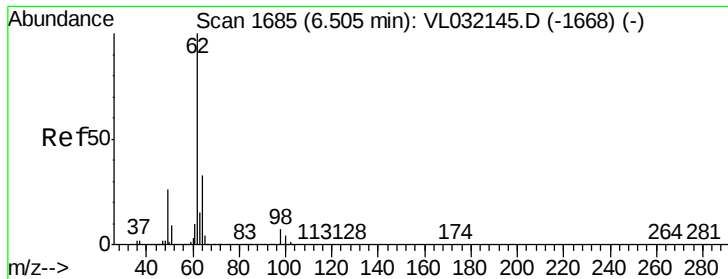
Abundance

Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





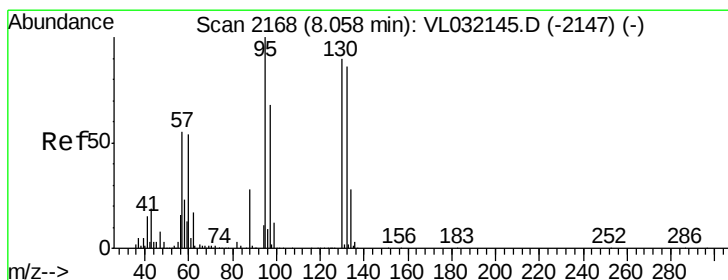
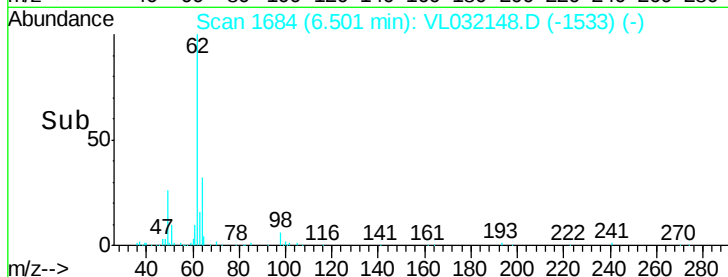
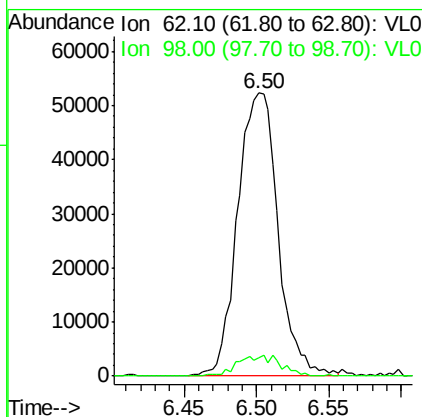
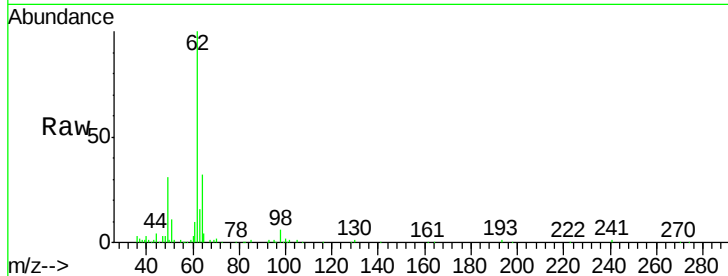
#37
 1,2-Dichloroethane
 Concen: 0.46 ppbv
 RT: 6.50 min Scan# 1684
 Delta R.T. -0.02 min
 Lab File: VL032148.D
 Acq: 29 Jun 2018 19:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
62	100	101561		
98	8.0	5.8	8.6	

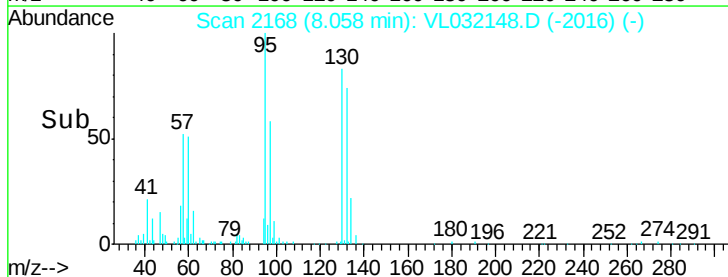
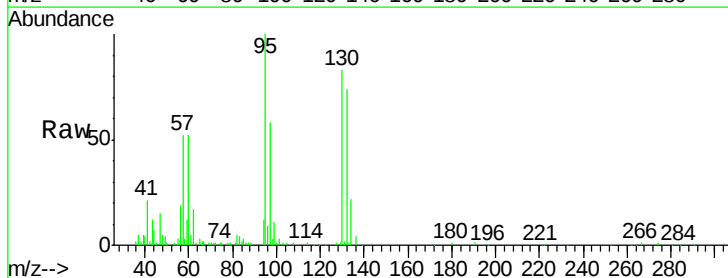
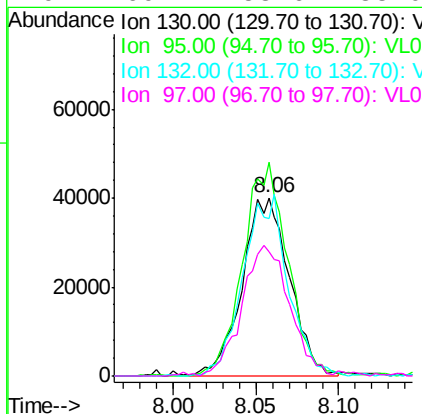
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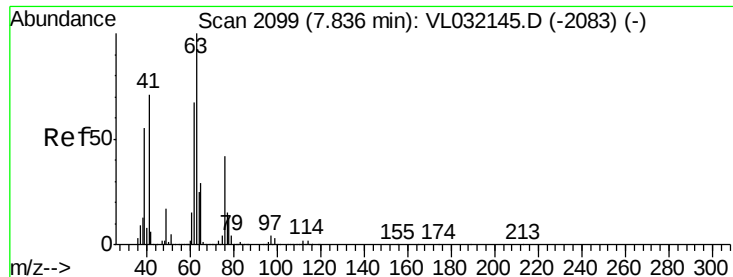
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#38
 Trichloroethene
 Concen: 0.48 ppbv
 RT: 8.06 min Scan# 2168
 Delta R.T. -0.01 min
 Lab File: VL032148.D
 Acq: 29 Jun 2018 19:59

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	79449		
95	120.4	88.1	132.1	
132	88.9	74.6	112.0	
97	69.7	58.6	88.0	





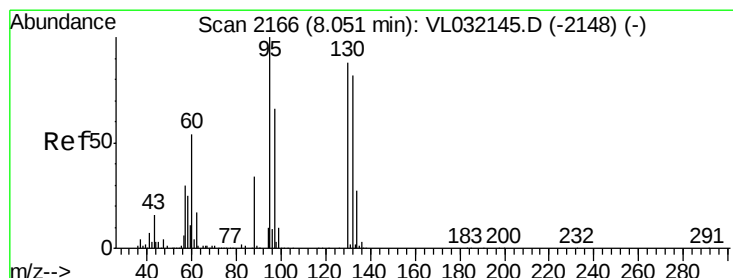
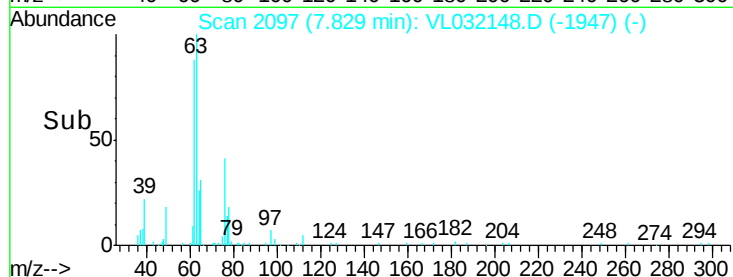
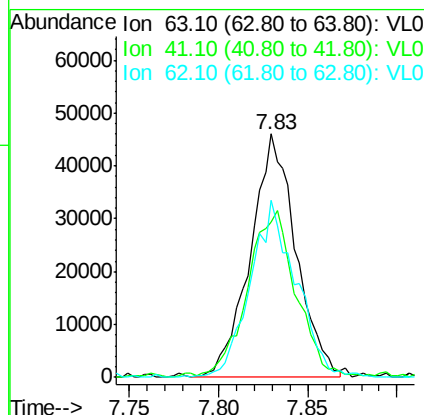
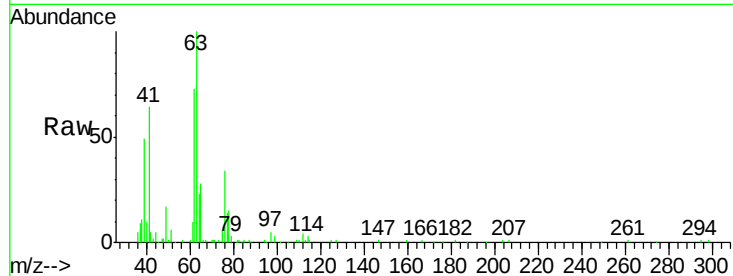
#39
 1,2-Dichloropropane
 Concen: 0.52 ppbv
 RT: 7.83 min Scan# 2097
 Delta R.T. -0.02 min
 Lab File: VL032148.D
 Acq: 29 Jun 2018 19:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
63	100		
41	61.6	53.3	79.9
62	72.5	54.8	82.2

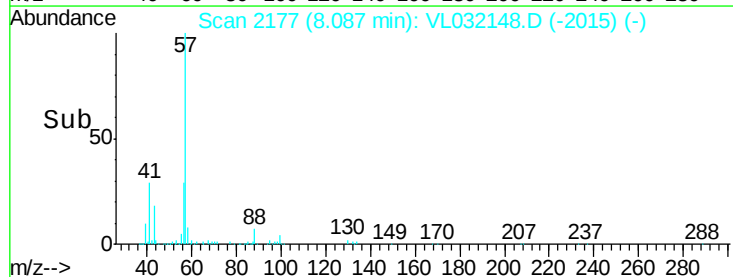
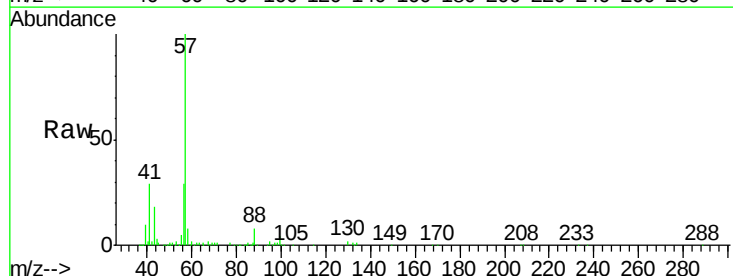
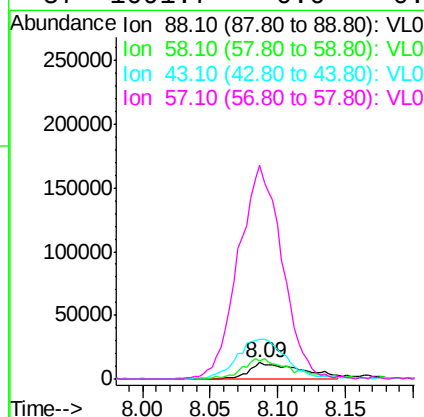
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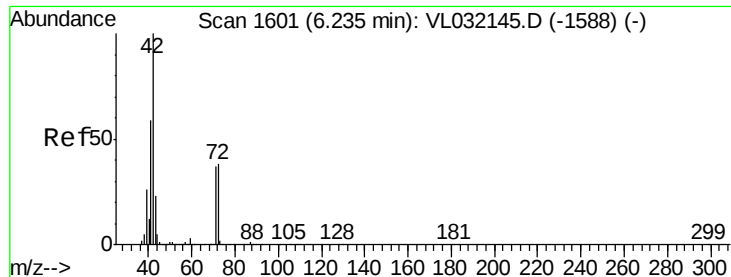
MMDadoda
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#40
 1,4-Dioxane
 Concen: 0.47 ppbv m
 RT: 8.09 min Scan# 2177
 Delta R.T. 0.02 min
 Lab File: VL032148.D
 Acq: 29 Jun 2018 19:59

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	47.4	71.0#
43	0.0	0.0	0.0
57	1091.7	0.0	0.0#





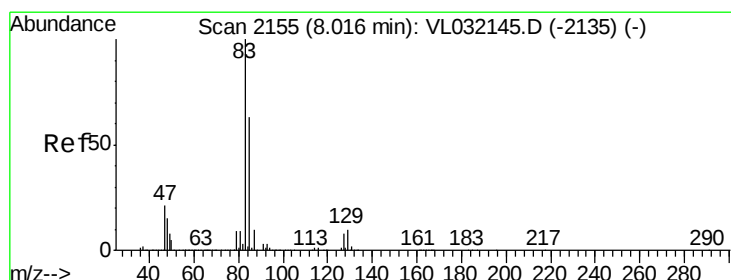
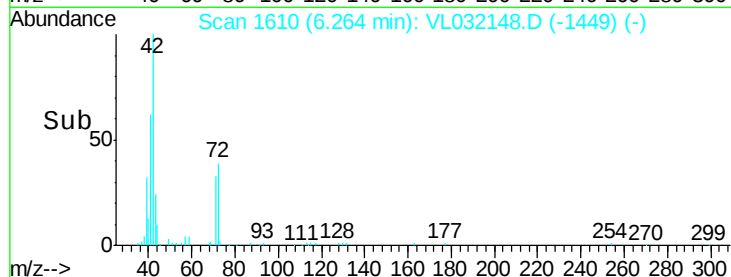
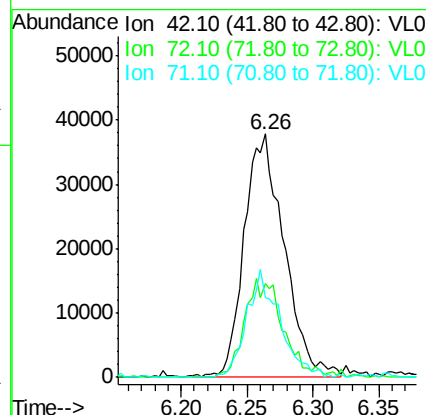
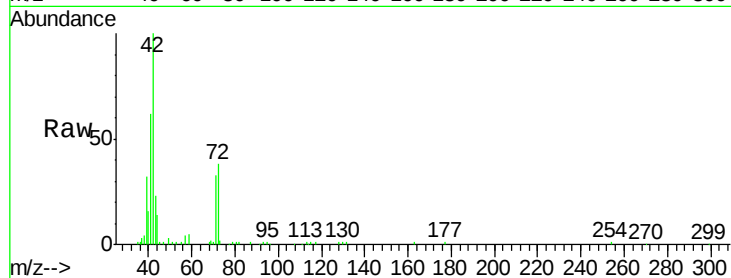
#41
Tetrahydrofuran
Concen: 0.41 ppbv m
RT: 6.26 min Scan# 1610
Delta R.T. 0.02 min
Lab File: VL032148.D
Acq: 29 Jun 2018 19:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.5	31.1	46.7
71	0.0	29.5	44.3#

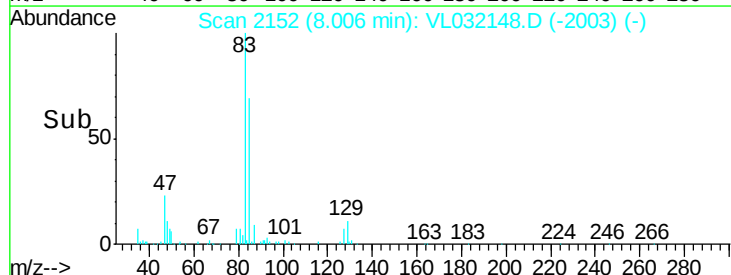
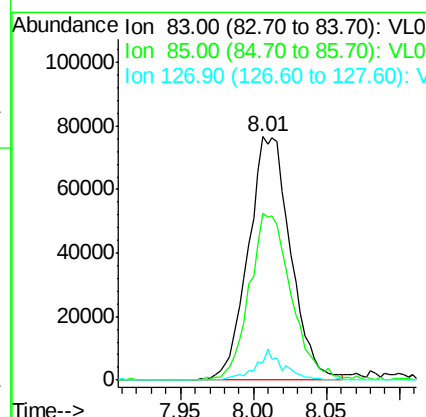
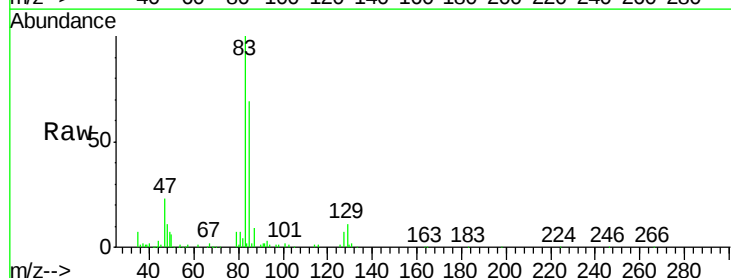
Manual Integrations
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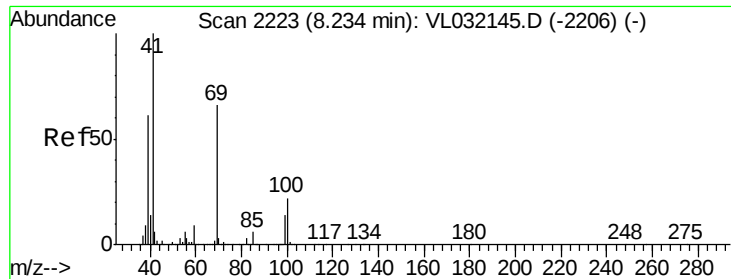
MMDadoda
7/2/2018 4:25:00 PM



#42
Bromodichloromethane
Concen: 0.51 ppbv m
RT: 8.01 min Scan# 2152
Delta R.T. -0.02 min
Lab File: VL032148.D
Acq: 29 Jun 2018 19:59

Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.8	52.6	79.0
127	7.2	6.5	9.7





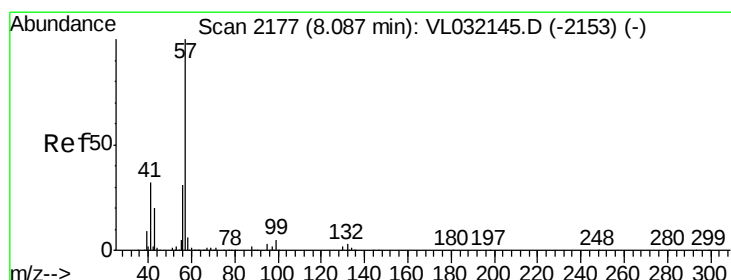
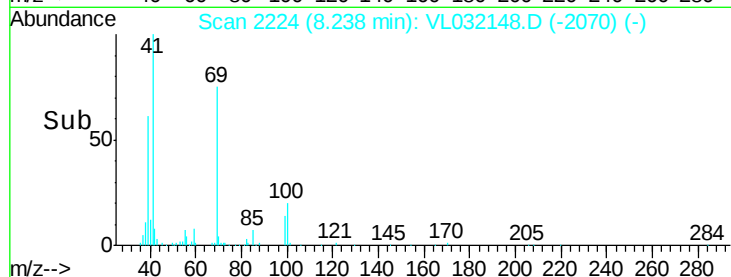
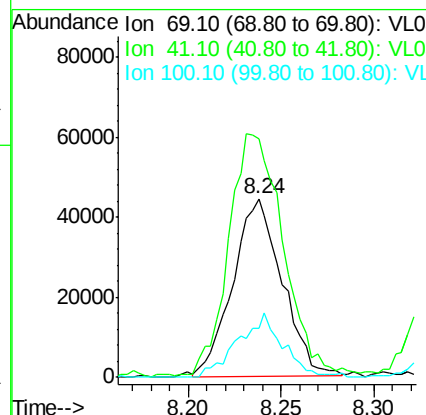
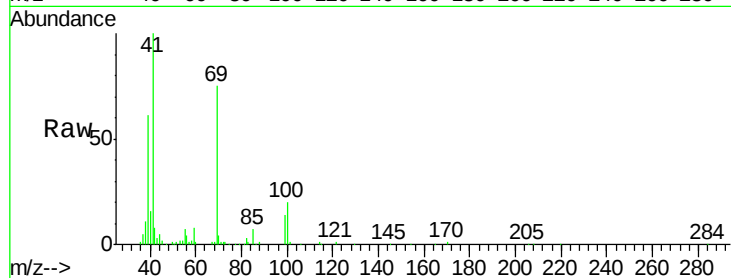
#43
Methyl Methacrylate
Concen: 0.48 ppbv
RT: 8.24 min Scan# 2224
Delta R.T. -0.01 min
Lab File: VL032148.D
Acq: 29 Jun 2018 19:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	153.5	118.2	177.4	
100	33.2	27.4	41.2	

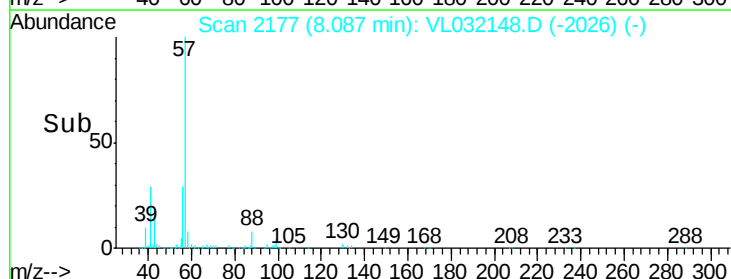
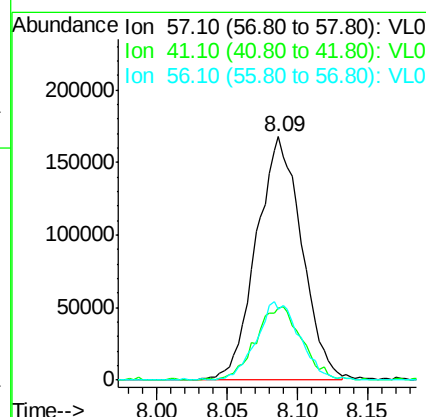
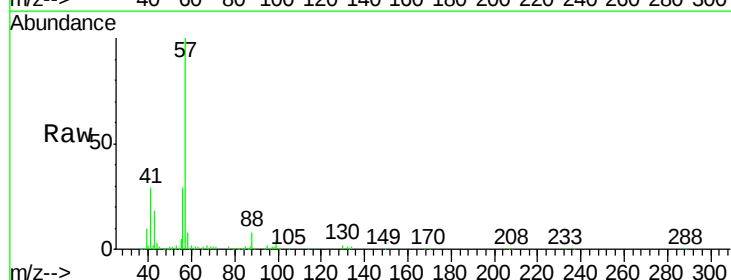
Manual Integrations
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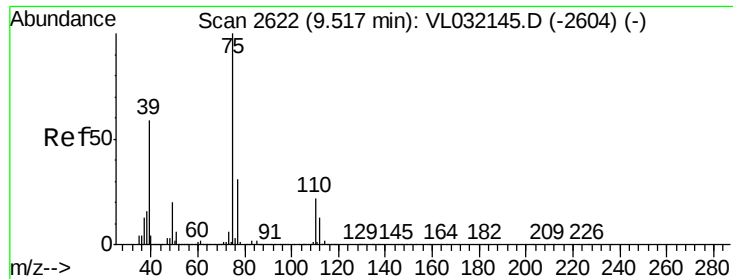
MMDadoda
7/2/2018 4:25:00 PM



#44
2,2,4-Trimethylpentane
Concen: 0.53 ppbv
RT: 8.09 min Scan# 2177
Delta R.T. -0.02 min
Lab File: VL032148.D
Acq: 29 Jun 2018 19:59

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	30.8	24.3	36.5	
56	31.0	25.1	37.7	





#45

t-1,3-Dichloropropene

Concen: 0.43 ppbv

RT: 9.51 min Scan# 2621

Delta R.T. -0.01 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 75 Resp: 91477

Ion Ratio Lower Upper

75 100

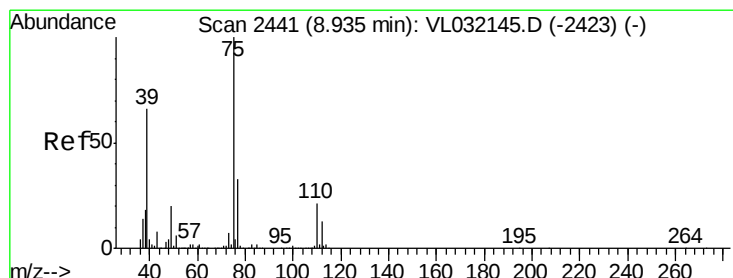
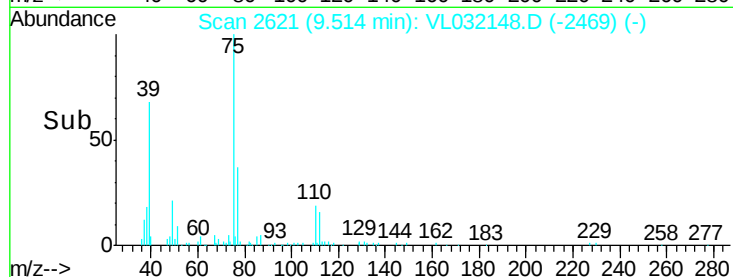
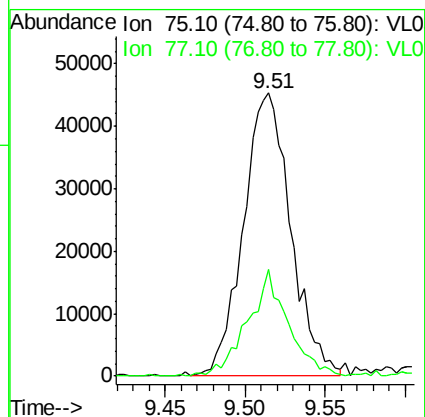
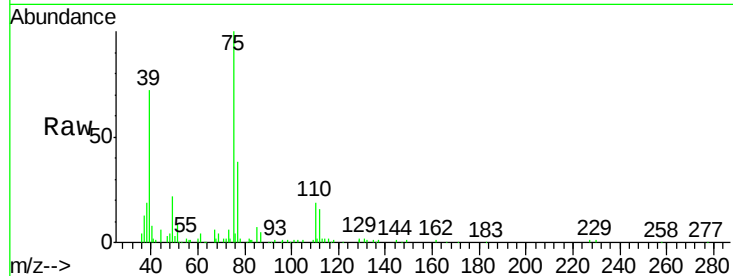
77 37.8 25.6 38.4

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7/2/2018 4:25:00 PM



#46

cis-1,3-Dichloropropene

Concen: 0.44 ppbv m

RT: 8.93 min Scan# 2440

Delta R.T. -0.02 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

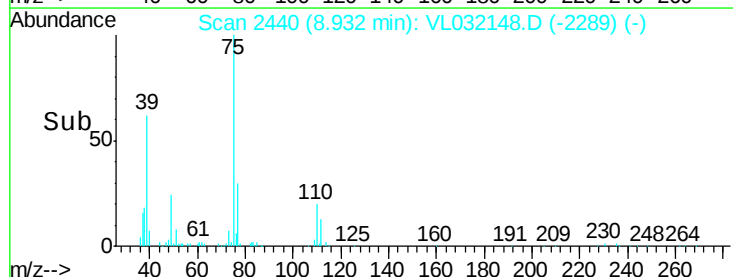
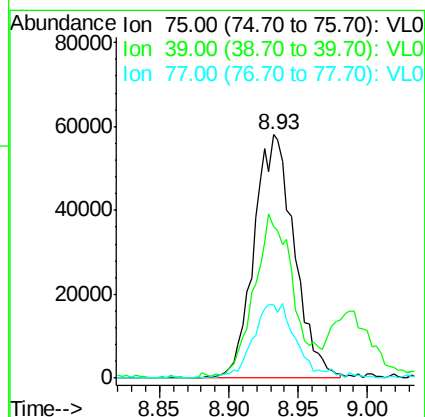
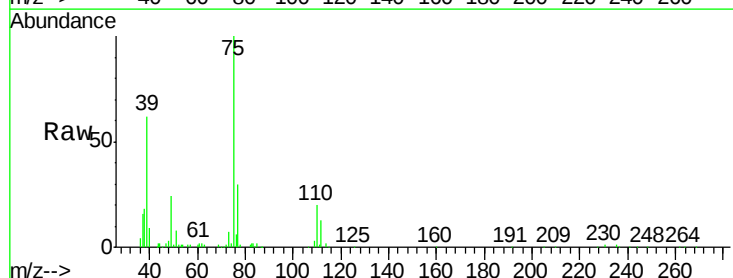
Tgt Ion: 75 Resp: 118060

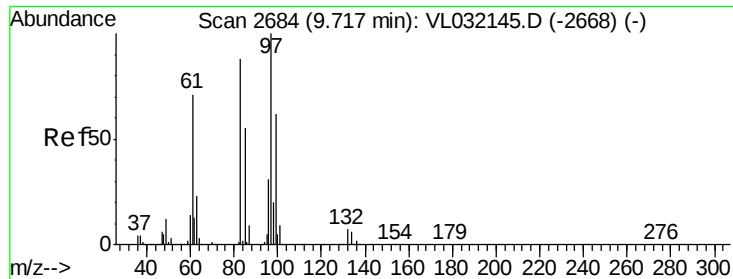
Ion Ratio Lower Upper

75 100

39 62.2 51.9 77.9

77 30.2 24.3 36.5





#47

1,1,2-Trichloroethane

Concen: 0.49 ppbv

RT: 9.71 min Scan# 2683

Delta R.T. -0.02 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Instrument :

MSVOA_L

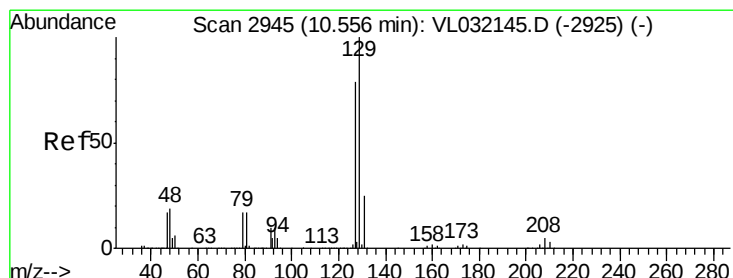
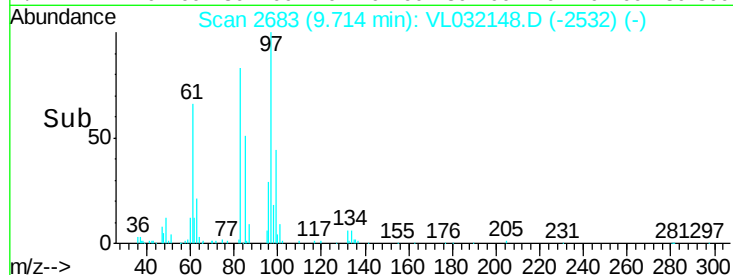
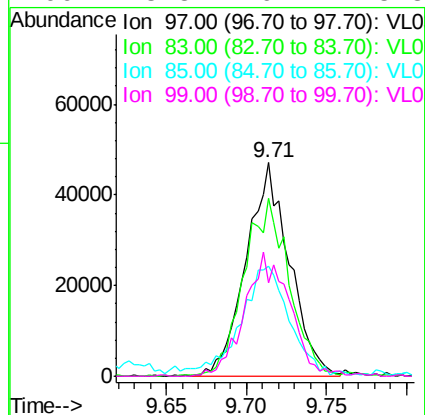
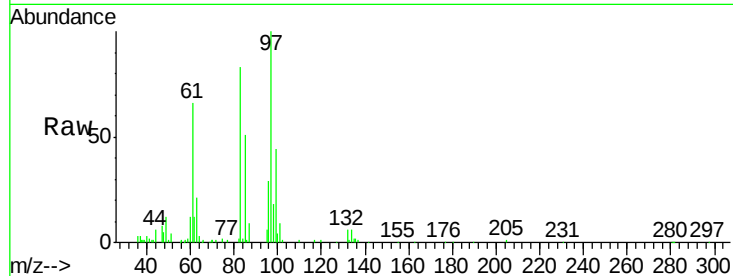
ClientSampleId :

VSTDIC0.5

Tot Ion:	97	Resp:	87262
Ion	Ratio	Lower	Upper
97	100		
83	82.8	71.0	106.4
85	49.0	44.2	66.4
99	43.8	49.2	73.8#

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#48

Dibromochloromethane

Concen: 0.44 ppbv

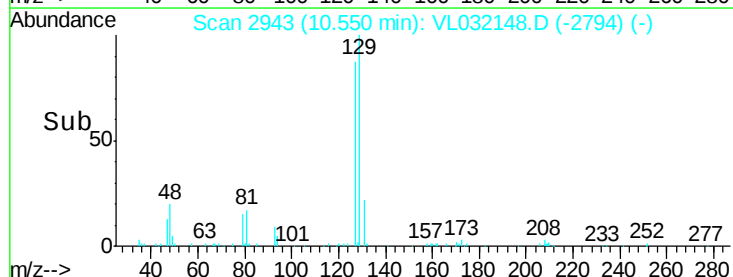
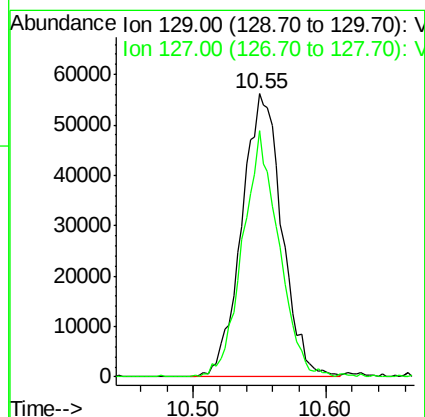
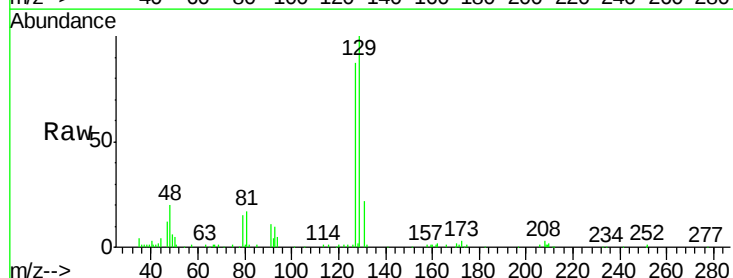
RT: 10.55 min Scan# 2943

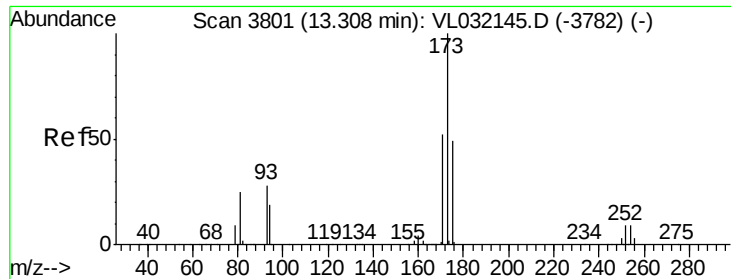
Delta R.T. -0.02 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Tgt Ion:	129	Resp:	118576
Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.1	117.5





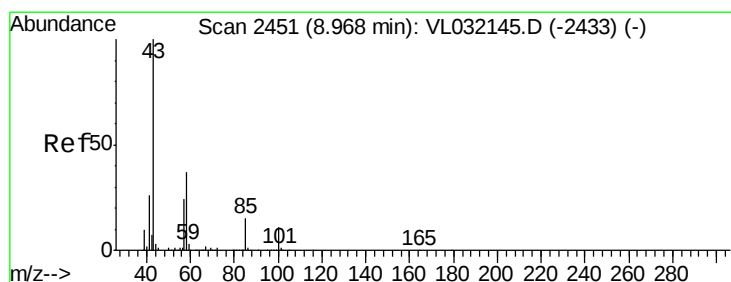
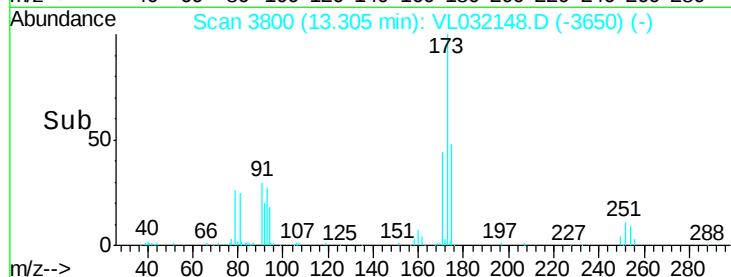
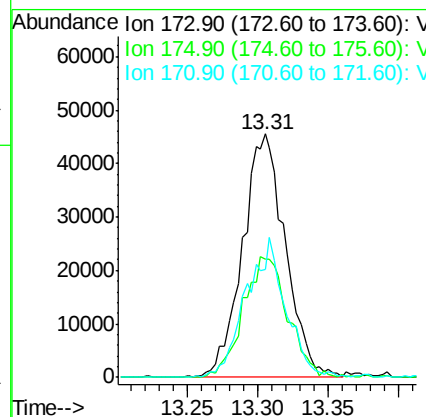
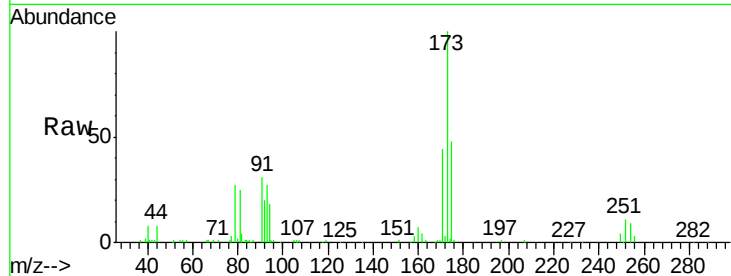
#49
Bromoform
Concen: 0.47 ppbv
RT: 13.31 min Scan# 3800
Delta R.T. -0.02 min
Lab File: VL032148.D
Acq: 29 Jun 2018 19:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
173	100		
175	52.1	39.4	59.0
171	53.6	41.8	62.8

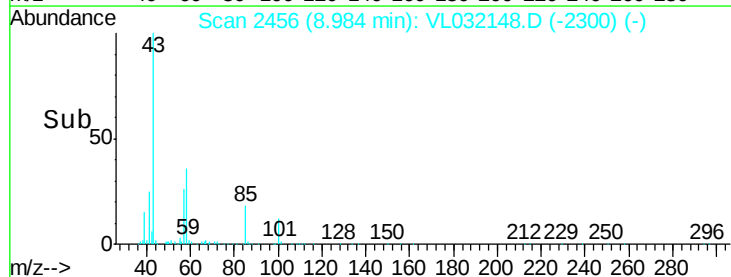
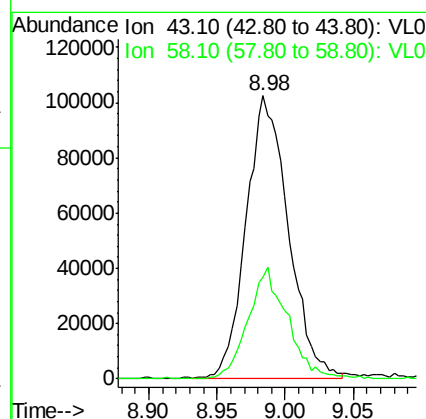
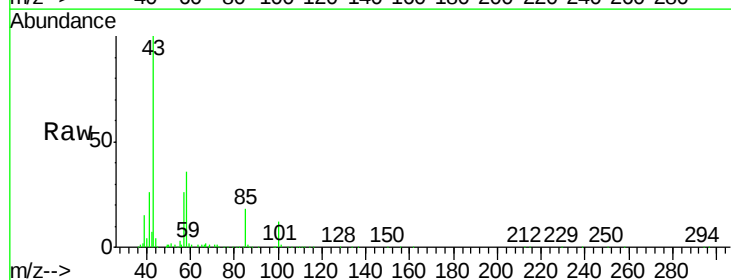
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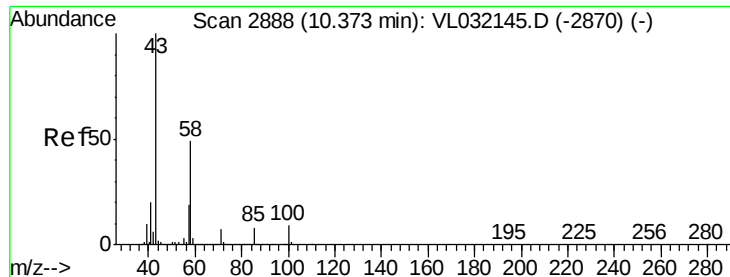
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 0.44 ppbv
RT: 8.98 min Scan# 2456
Delta R.T. 0.00 min
Lab File: VL032148.D
Acq: 29 Jun 2018 19:59

Tgt Ion	Ratio	Lower	Upper
43	100		
58	37.2	29.8	44.6





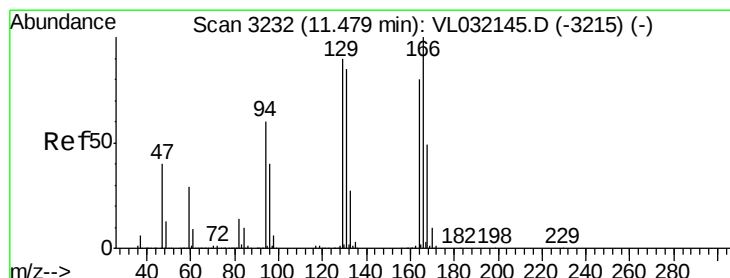
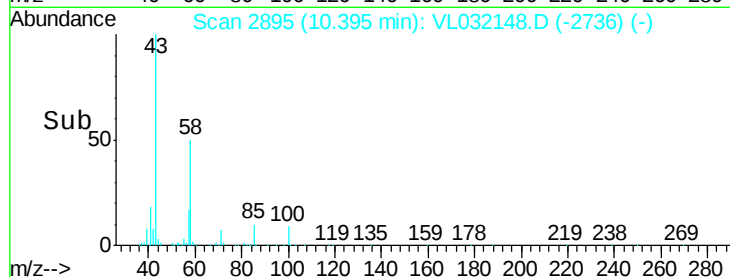
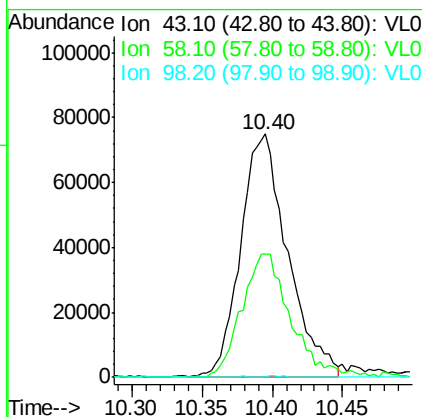
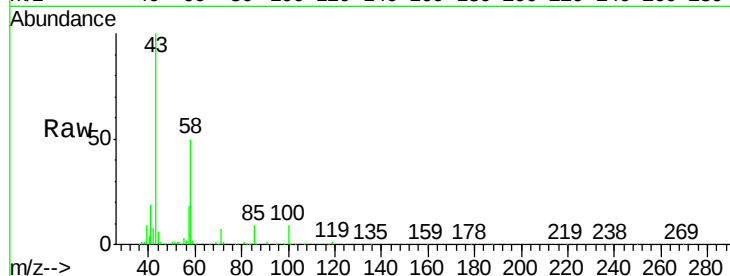
#51
2-Hexanone
Concen: 0.35 ppbv
RT: 10.40 min Scan# 2895
Delta R.T. 0.01 min
Lab File: VL032148.D
Acq: 29 Jun 2018 19:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
43	100		
58	54.2	40.6	60.8
98	0.2	0.1	0.1#

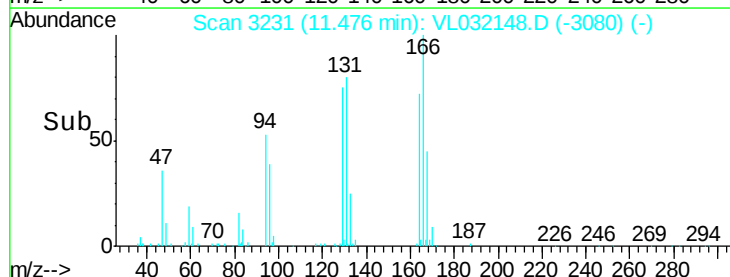
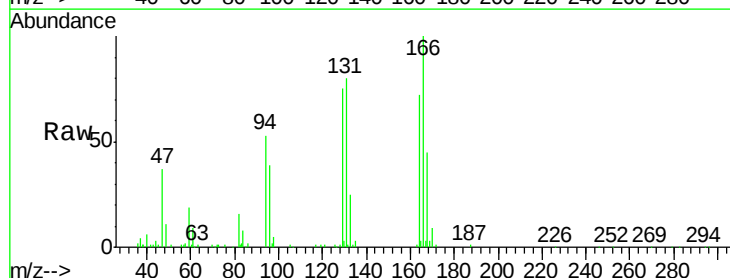
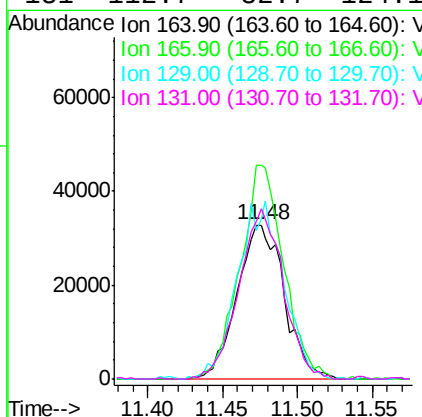
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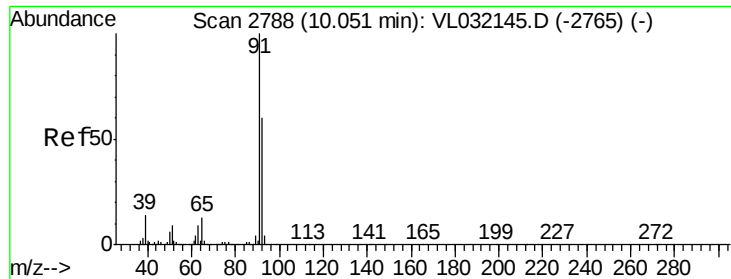
MMDadoda
7/2/2018 4:25:00 PM



#52
Tetrachloroethene
Concen: 0.45 ppbv
RT: 11.48 min Scan# 3231
Delta R.T. -0.02 min
Lab File: VL032148.D
Acq: 29 Jun 2018 19:59

Tgt Ion	Ratio	Lower	Upper
164	100		
166	138.8	100.6	151.0
129	103.8	84.0	126.0
131	112.7	82.7	124.1





#53

Toluene

Concen: 0.48 ppbv m

RT: 10.04 min Scan# 2785

Delta R.T. -0.02 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 252496

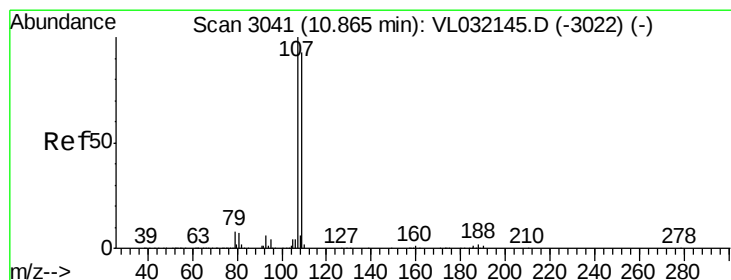
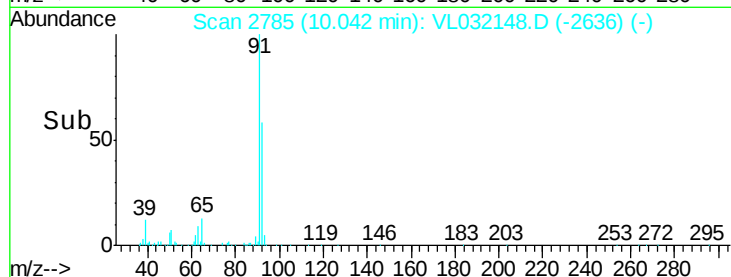
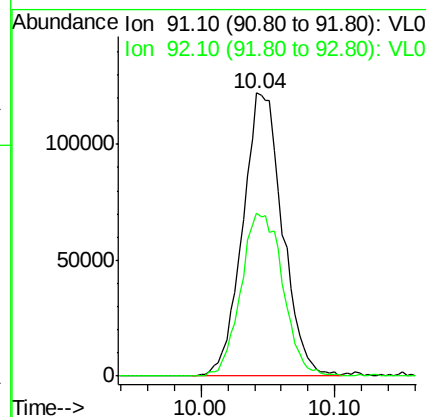
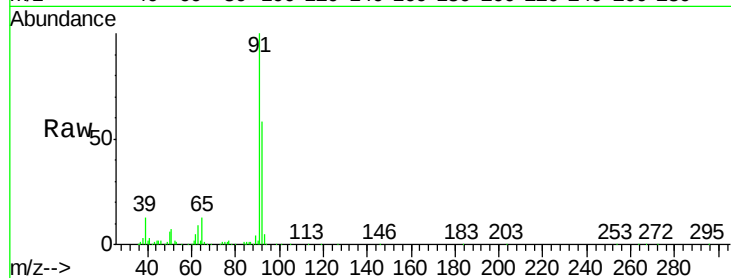
Ion Ratio Lower Upper

91 100

92 60.9 49.2 73.8

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#54

1,2-Dibromoethane

Concen: 0.46 ppbv

RT: 10.86 min Scan# 3039

Delta R.T. -0.02 min

Lab File: VL032148.D

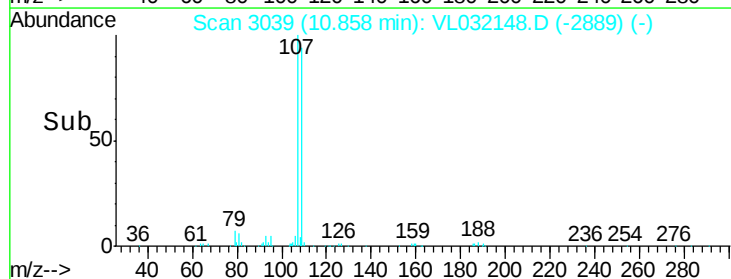
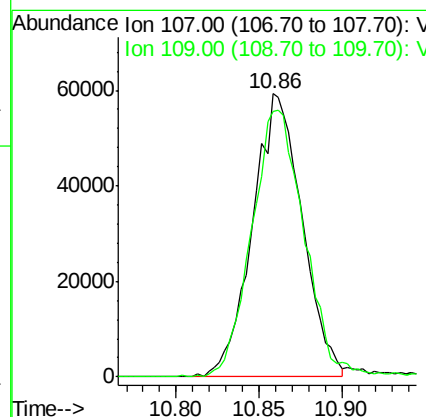
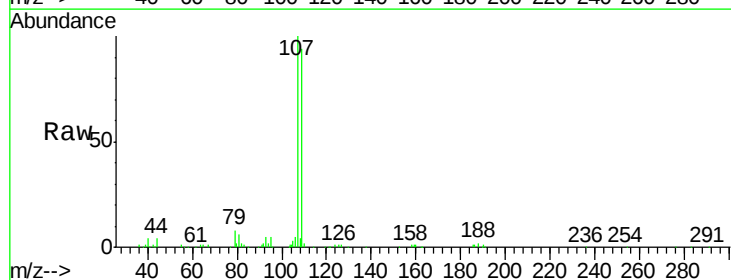
Acq: 29 Jun 2018 19:59

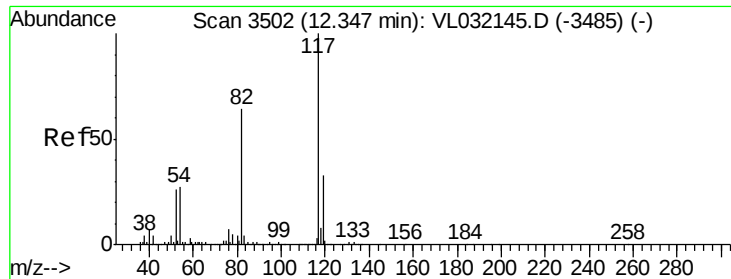
Tgt Ion: 107 Resp: 123214

Ion Ratio Lower Upper

107 100

109 94.0 75.0 112.4





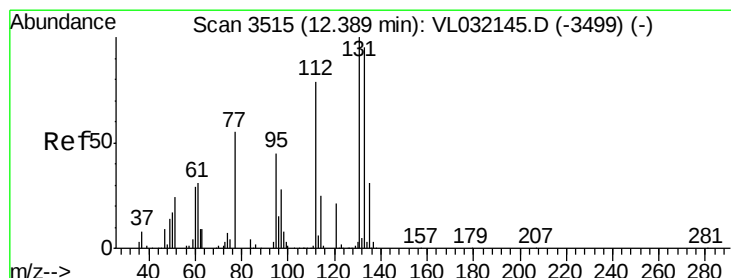
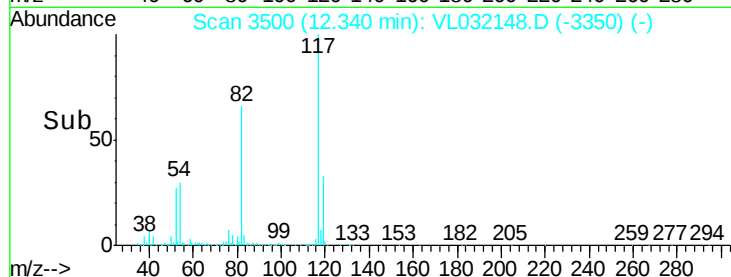
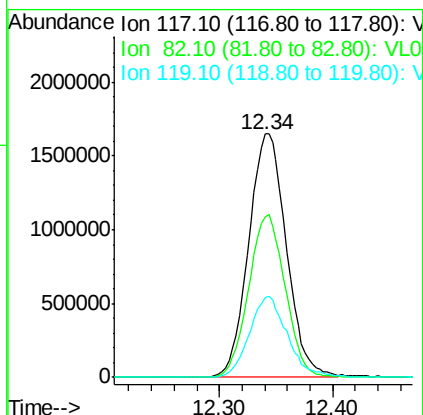
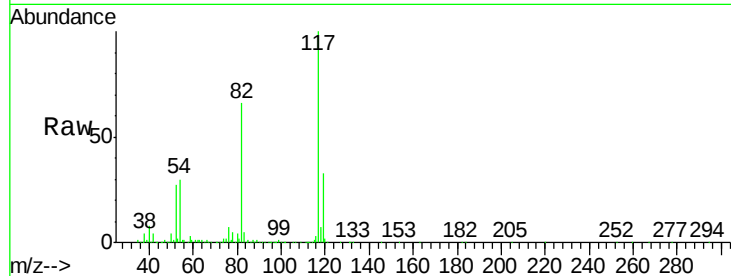
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.34 min Scan# 3500
Delta R.T. -0.02 min
Lab File: VL032148.D
Acq: 29 Jun 2018 19:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
117	100		
82	65.3	47.8	71.8
119	33.6	43.3	64.9#

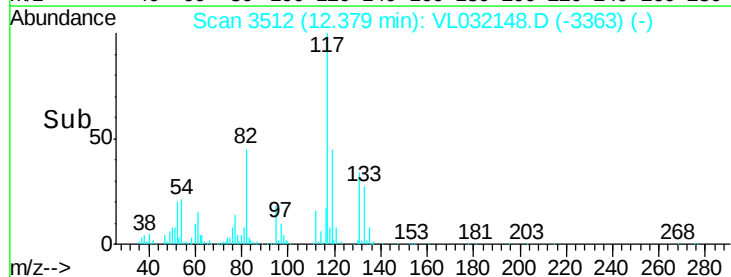
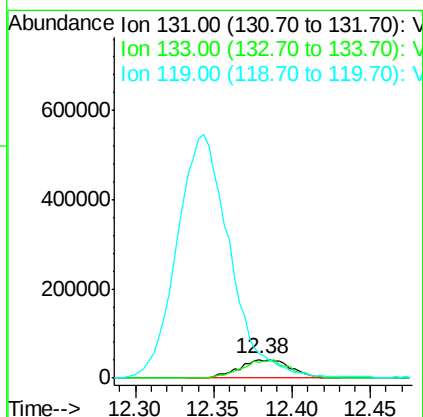
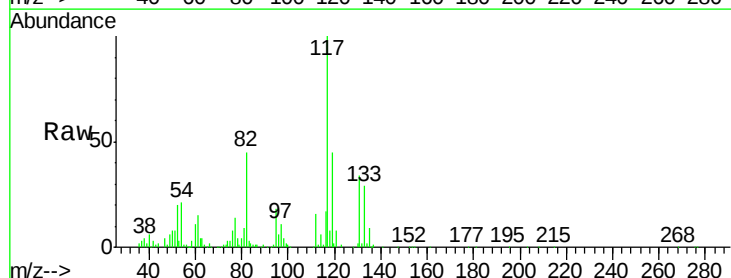
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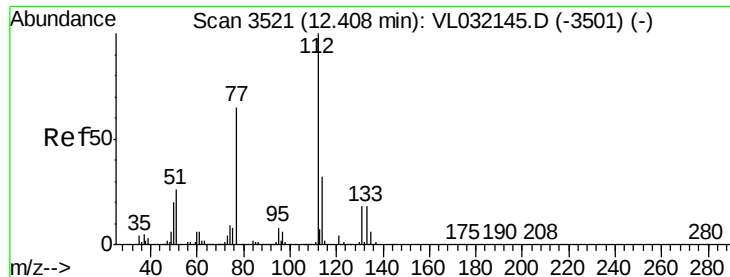
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 0.57 ppbv m
RT: 12.38 min Scan# 3512
Delta R.T. -0.02 min
Lab File: VL032148.D
Acq: 29 Jun 2018 19:59

Tgt Ion	Ratio	Lower	Upper
131	100		
133	92.5	75.5	113.3
119	0.0	118.4	177.6#





#57

Chlorobenzene

Concen: 0.53 ppbv

RT: 12.40 min Scan# 3520

Delta R.T. -0.02 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Instrument :

MSVOA_L

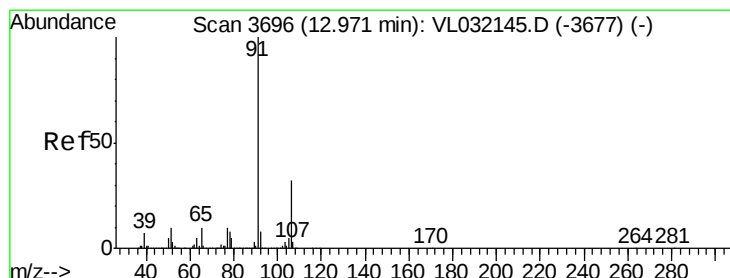
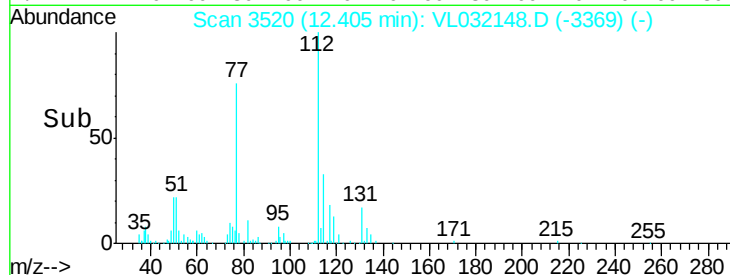
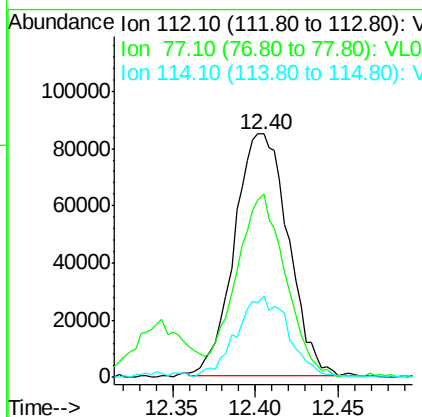
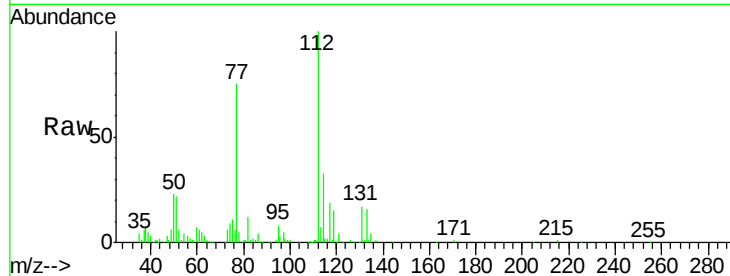
ClientSampleId :

VSTDIC0.5

Tot Ion:	112	Resp:	190355
Ion Ratio	Lower	Upper	
112	100		
77	76.1	52.6	78.8
114	32.7	27.9	34.1

Manual Integrations
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#58

Ethyl Benzene

Concen: 0.54 ppbv

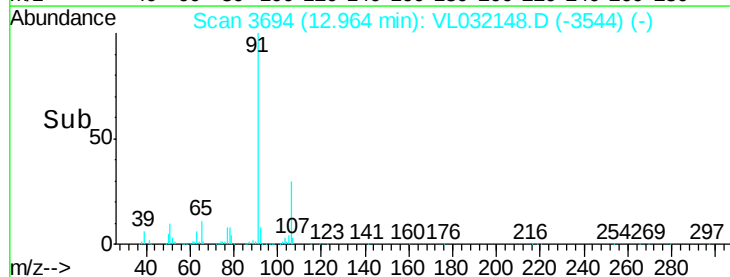
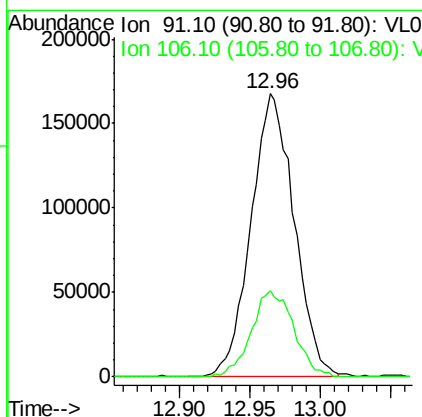
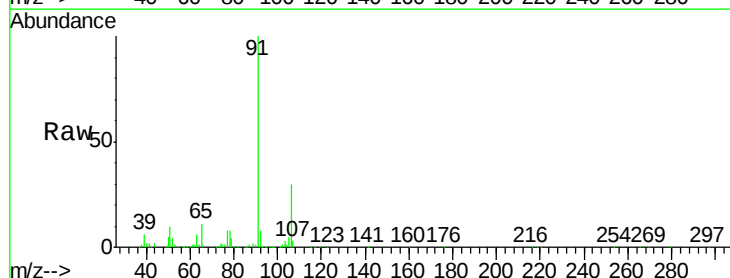
RT: 12.96 min Scan# 3694

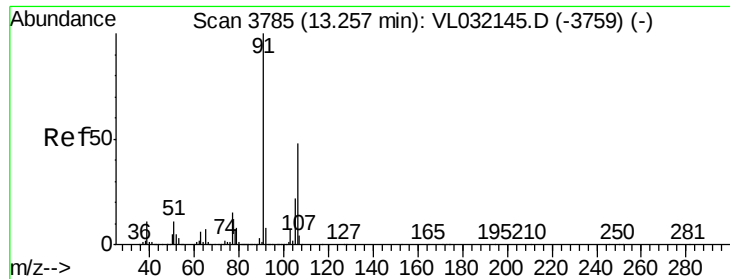
Delta R.T. -0.02 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Tgt Ion:	91	Resp:	357946
Ion Ratio	Lower	Upper	
91	100		
106	30.4	26.5	39.7





#59

m/p-Xylene

Concen: 1.09 ppbv m

RT: 13.22 min Scan# 3775

Delta R.T. -0.04 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 575297

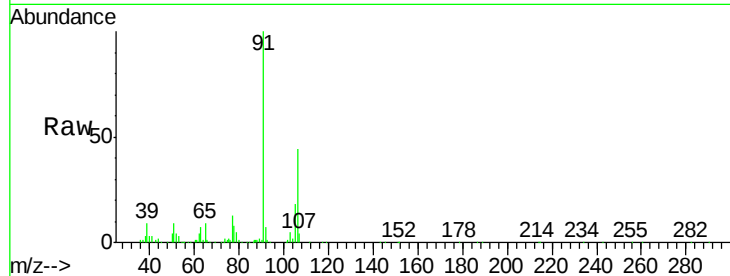
Ion Ratio Lower Upper

91 100

106 46.2 38.6 58.0

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.22

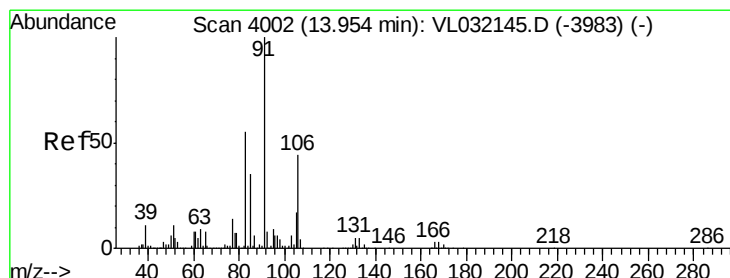
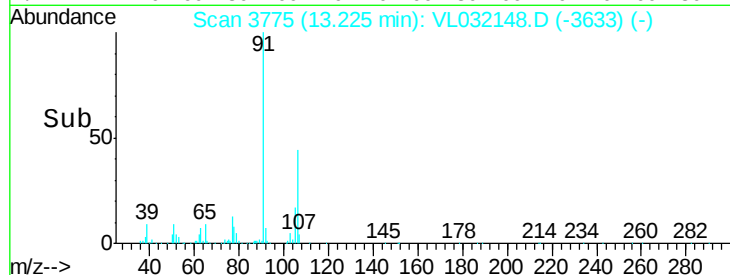
150000

100000

50000

0

Time-->



#60

o-Xylene

Concen: 0.56 ppbv

RT: 13.95 min Scan# 4000

Delta R.T. -0.02 min

Lab File: VL032148.D

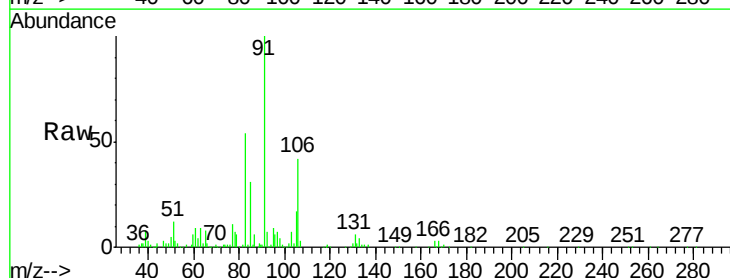
Acq: 29 Jun 2018 19:59

Tgt Ion: 91 Resp: 291346

Ion Ratio Lower Upper

91 100

106 44.9 23.3 69.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.95

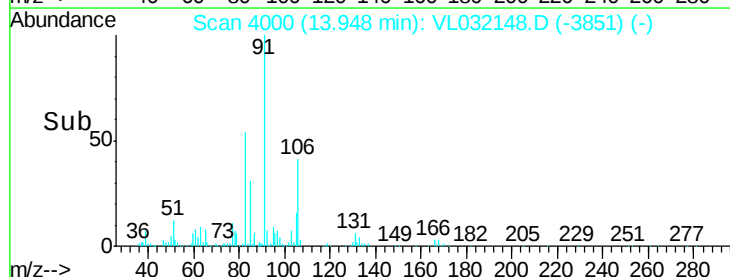
150000

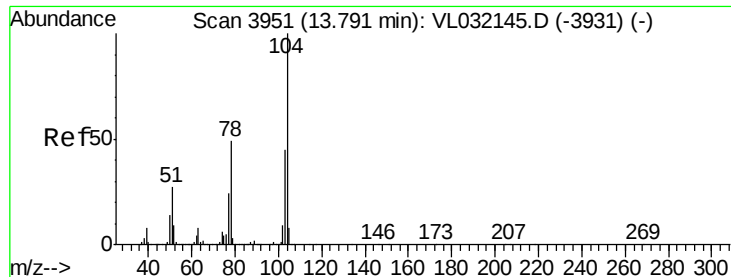
100000

50000

0

Time-->





#61

Stvrene

Concen: 1.44 ppbv

RT: 13.79 min Scan# 3950

Delta R.T. -0.02 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Instrument :

MSVOA_L

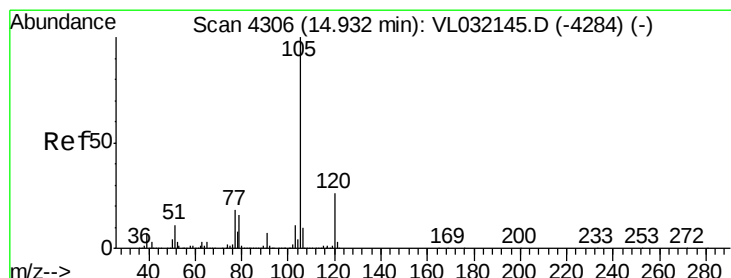
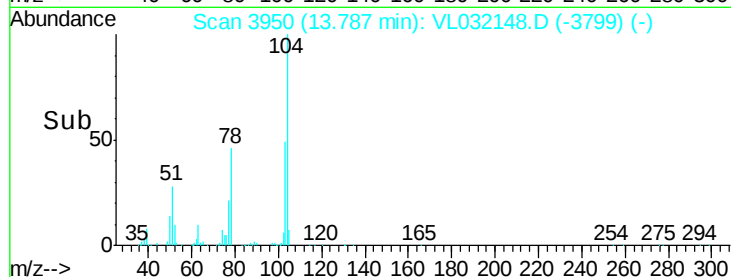
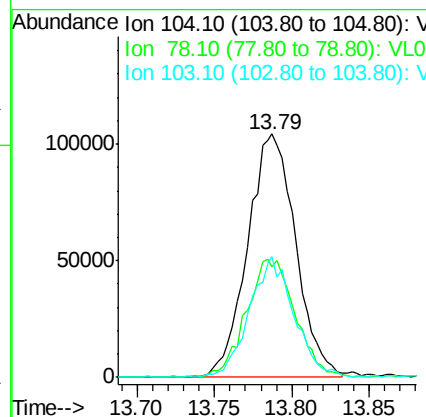
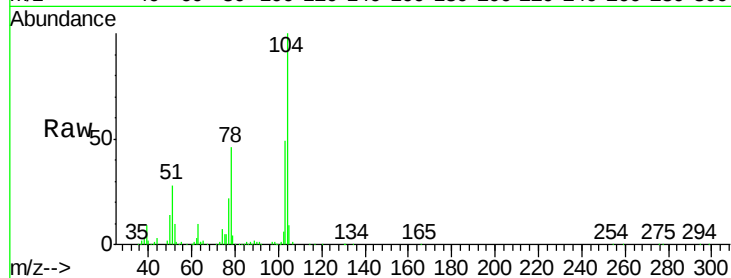
ClientSampleId :

VSTDIC0.5

Tot Ion:	104	Resp:	225567
Ion Ratio		Lower	Upper
104	100		
78	49.5	37.9	56.9
103	46.3	36.6	55.0

Manual Integrations
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MMDadoda
7/2/2018 4:25:00 PM



#62

Isopropylbenzene

Concen: 0.60 ppbv

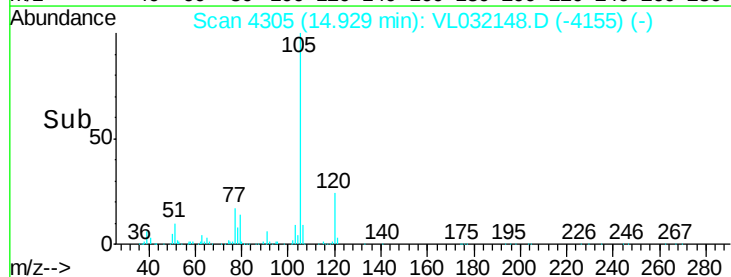
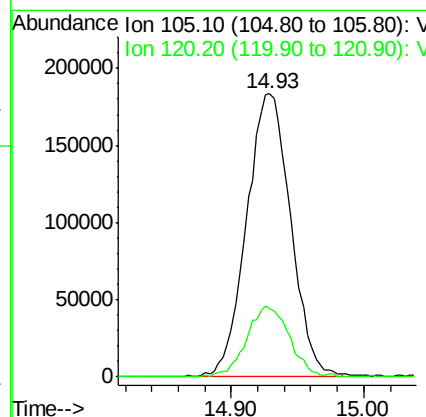
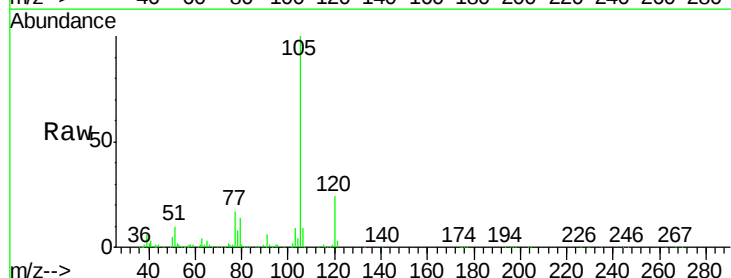
RT: 14.93 min Scan# 4305

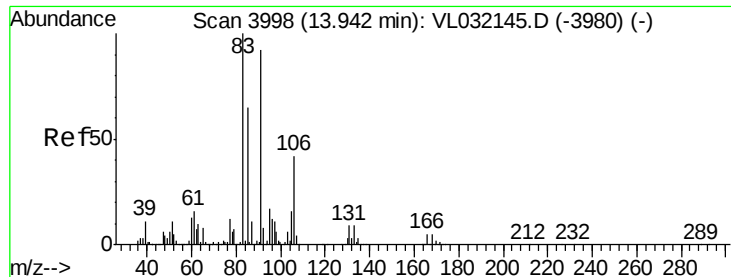
Delta R.T. -0.02 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Tgt Ion:	105	Resp:	421124
Ion Ratio		Lower	Upper
105	100		
120	24.7	21.0	31.4





#63

1,1,2,2-Tetrachloroethane

Concen: 0.51 ppbv

RT: 13.94 min Scan# 3998

Delta R.T. -0.01 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Instrument :

MSVOA_L

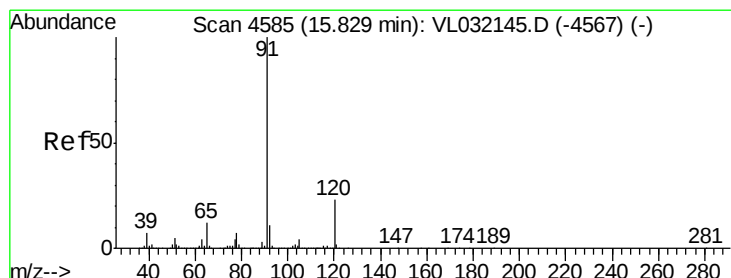
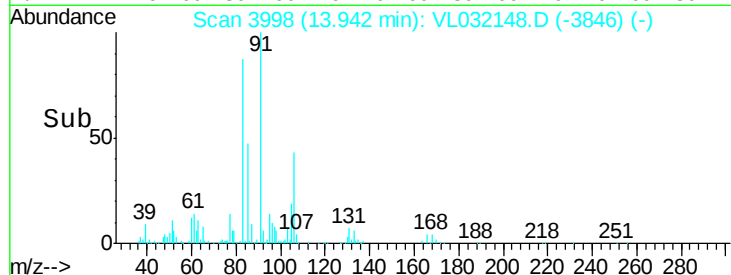
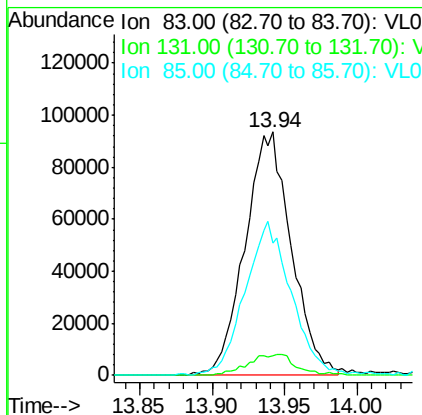
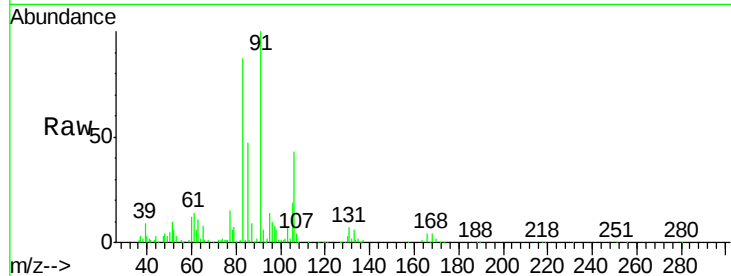
ClientSampleId :

VSTDIC0.5

Tot Ion:	83	Resp:	208043
Ion Ratio	Lower	Upper	
83	100		
131	8.9	4.6	13.8
85	63.7	32.4	97.2

Manual Integrations
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MMDadoda
7/2/2018 4:25:00 PM



#64

n-propylbenzene

Concen: 0.56 ppbv

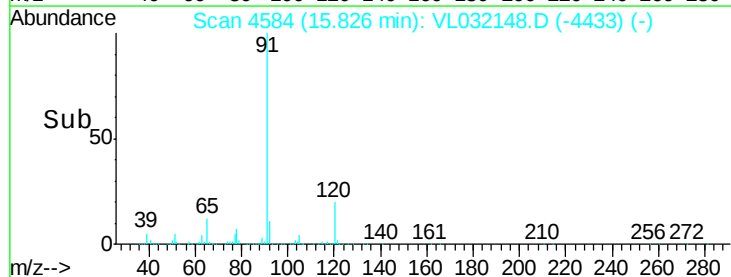
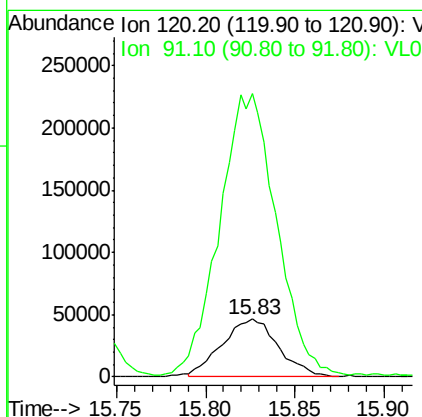
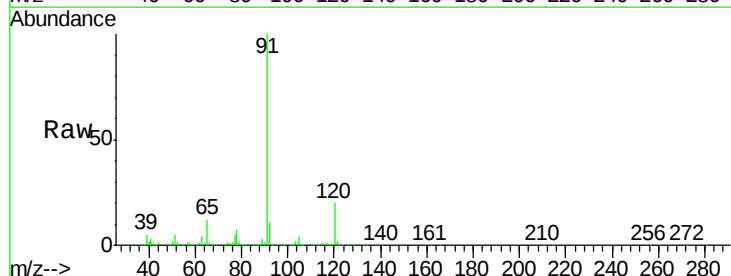
RT: 15.83 min Scan# 4584

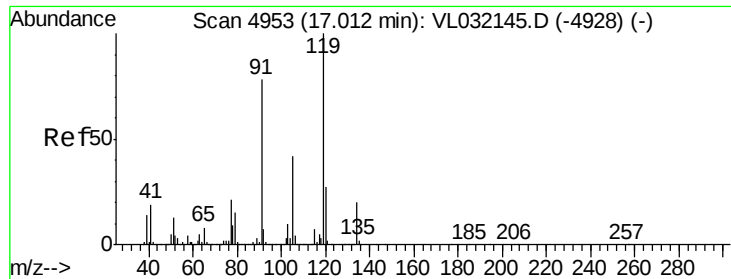
Delta R.T. -0.02 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Tgt Ion:	120	Resp:	102213
Ion Ratio	Lower	Upper	
120	100		
91	502.3	357.4	536.0





#65

tert-Butylbenzene

Concen: 0.60 ppbv

RT: 17.01 min Scan# 4953

Delta R.T. -0.01 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Instrument :

MSVOA_L

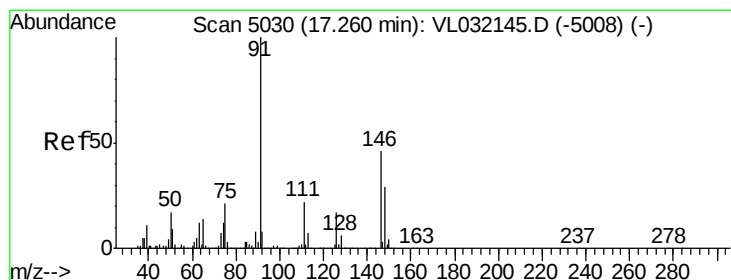
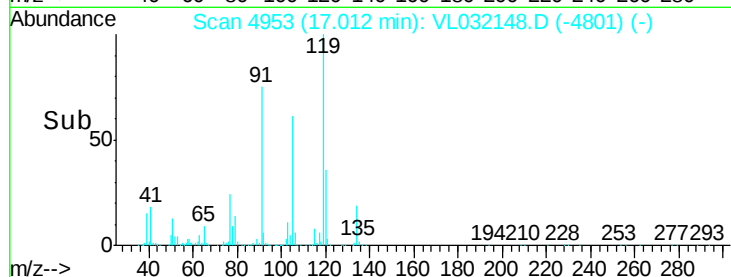
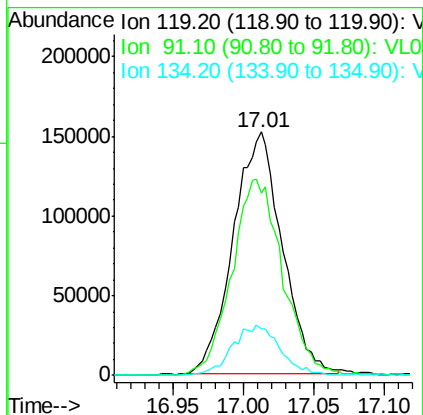
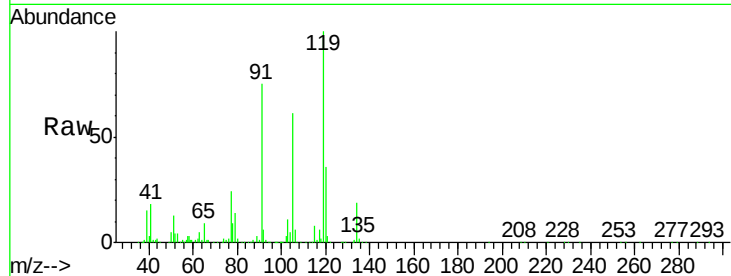
ClientSampleId :

VSTDIC0.5

Tot Ion:	119	Resp:	368324
Ion Ratio	Lower	Upper	
119	100		
91	84.7	62.2	93.2
134	20.1	16.2	24.2

Manual Integrations
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7/2/2018 4:25:00 PM



#66

Benzyl Chloride

Concen: 2.15 ppbv

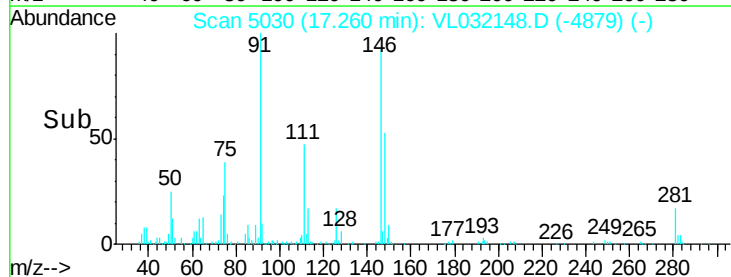
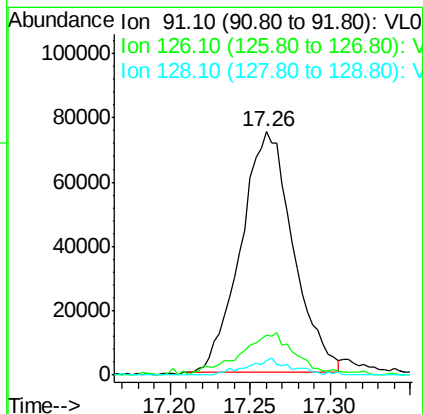
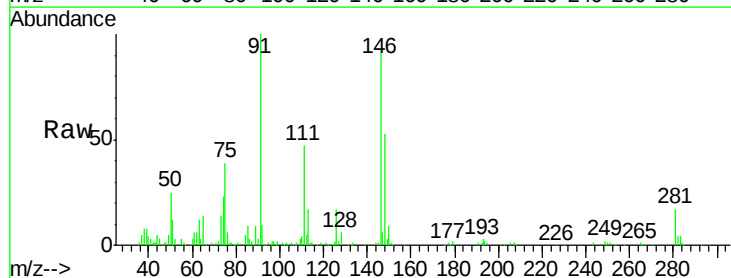
RT: 17.26 min Scan# 5030

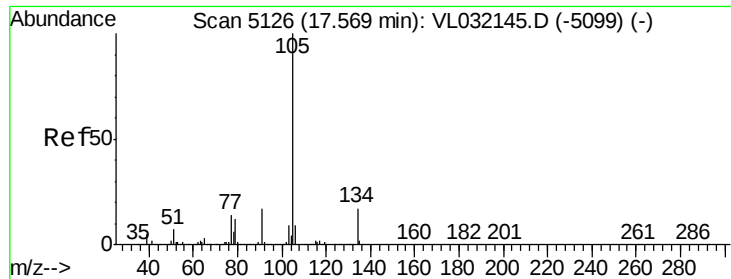
Delta R.T. -0.02 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Tgt Ion:	91	Resp:	168114
Ion Ratio	Lower	Upper	
91	100		
126	20.0	15.7	23.5
128	6.1	5.2	7.8





#67

sec-Butylbenzene

Concen: 0.62 ppbv

RT: 17.56 min Scan# 5123

Delta R.T. -0.02 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 105 Resp: 557782

Ion Ratio Lower Upper

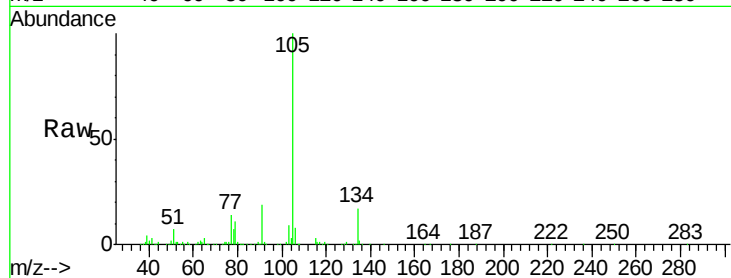
105 100

134 17.4 14.7 22.1

Manual Integrations
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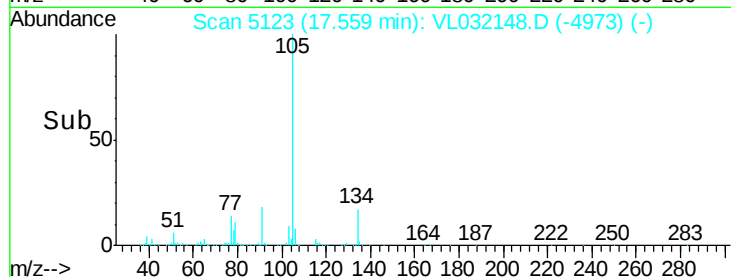
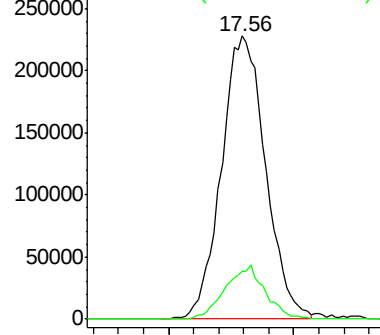
MMDadoda

7/2/2018 4:25:00 PM

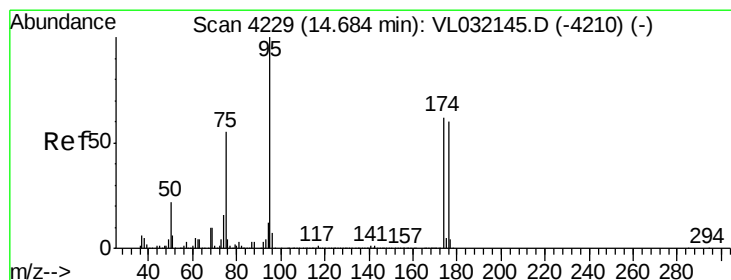


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.25 ppbv

RT: 14.68 min Scan# 4228

Delta R.T. -0.02 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

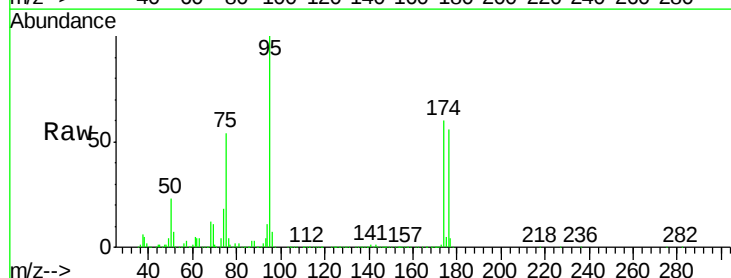
Tgt Ion: 95 Resp: 2909484

Ion Ratio Lower Upper

95 100

174 59.9 52.1 78.1

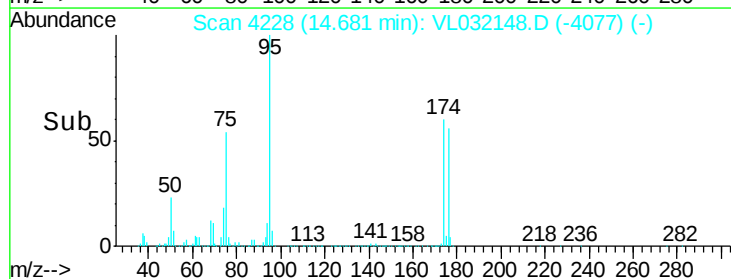
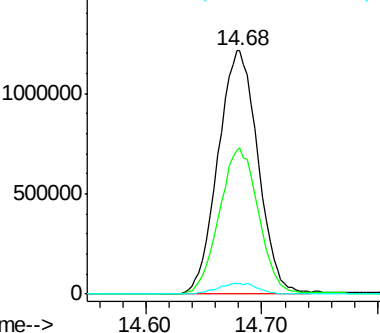
175 4.4 4.0 6.0



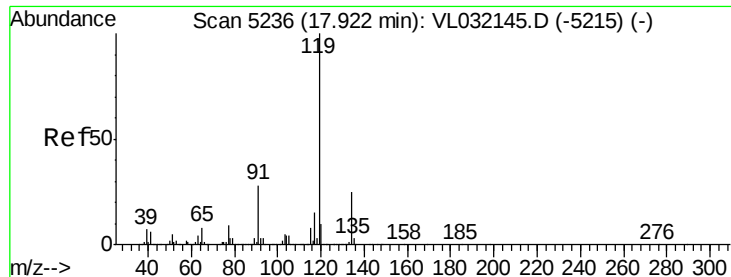
Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



Time-->



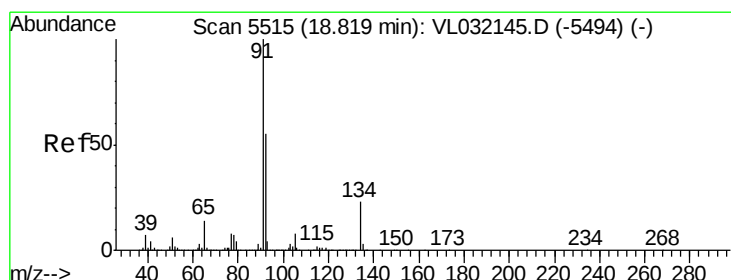
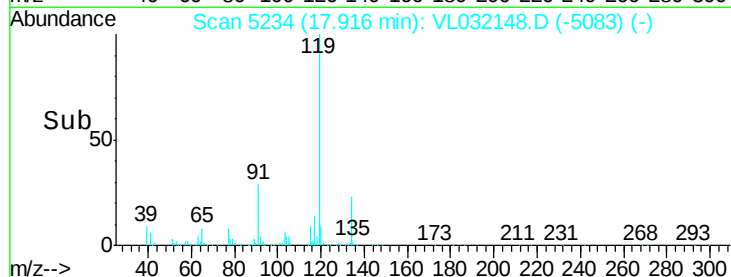
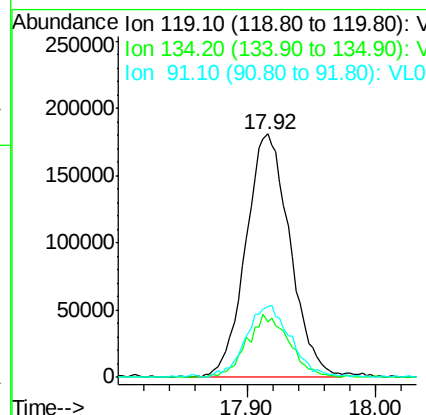
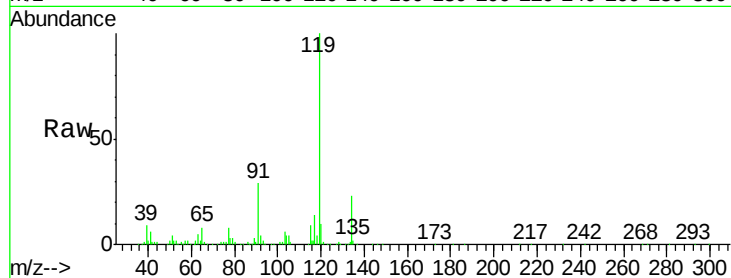
#69
p-Isopropyltoluene
Concen: 0.59 ppbv
RT: 17.92 min Scan# 5234
Delta R.T. -0.02 min
Lab File: VL032148.D
Acq: 29 Jun 2018 19:59

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.0	20.7	31.1
91	30.8	21.8	32.8

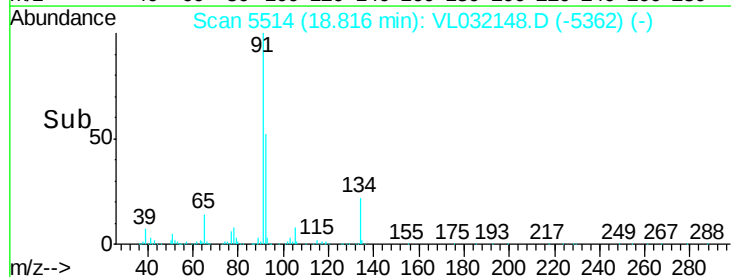
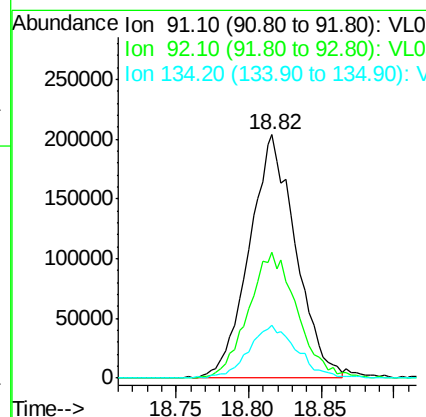
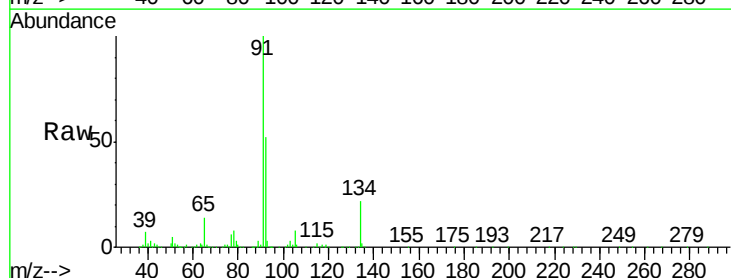
Manual Integrations
APPROVED

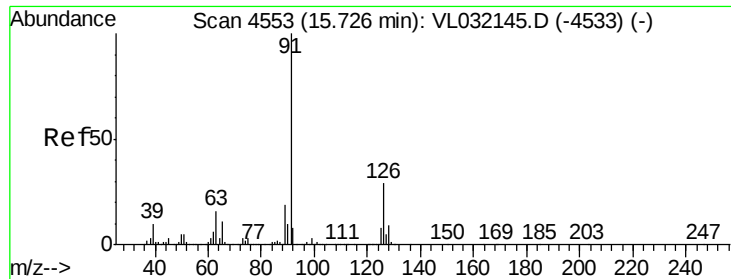
MMDadoda
7/2/2018 4:25:00 PM



#70
n-Butylbenzene
Concen: 0.59 ppbv
RT: 18.82 min Scan# 5514
Delta R.T. -0.01 min
Lab File: VL032148.D
Acq: 29 Jun 2018 19:59

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.9	43.7	65.5
134	22.7	18.9	28.3





#71

2-Chlorotoluene

Concen: 0.59 ppbv

RT: 15.72 min Scan# 4551

Delta R.T. -0.02 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 313331

Ion Ratio Lower Upper

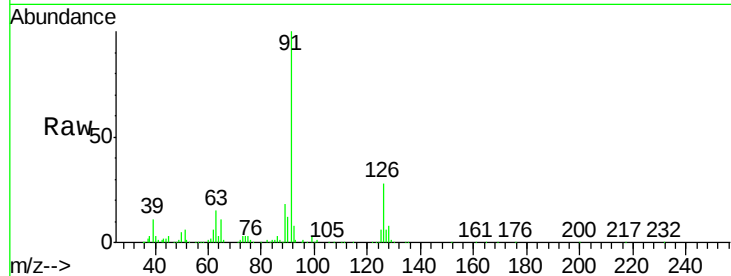
91 100

126 29.9 12.8 51.0

Manual Integrations
APPROVED

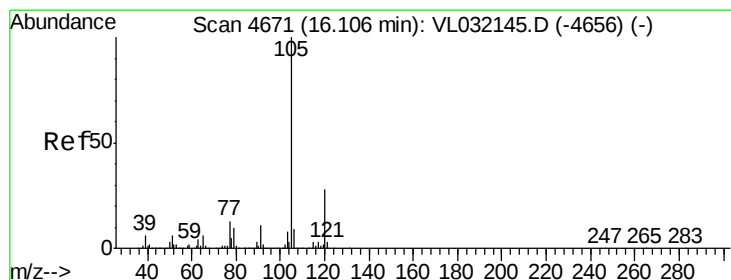
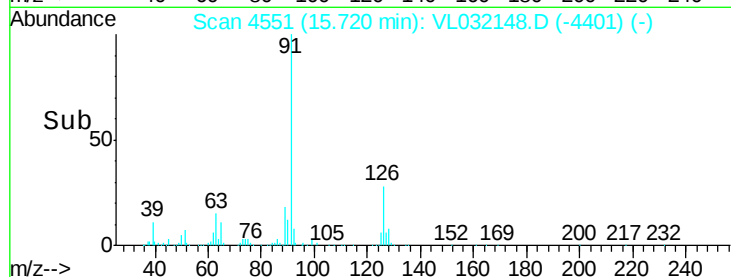
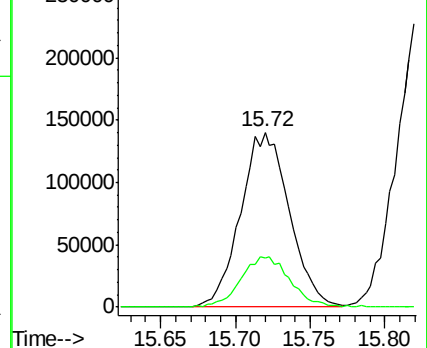
MMDadoda

7/2/2018 4:25:00 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.57 ppbv

RT: 16.10 min Scan# 4670

Delta R.T. -0.02 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Tgt Ion: 105 Resp: 333927

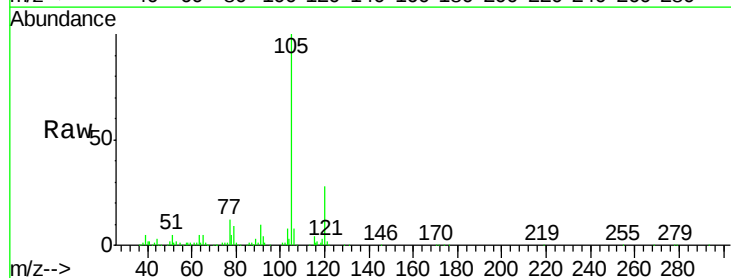
Ion Ratio Lower Upper

105 100

120 27.4 24.3 36.5

91 12.5 9.4 14.0

77 14.5 10.2 15.2

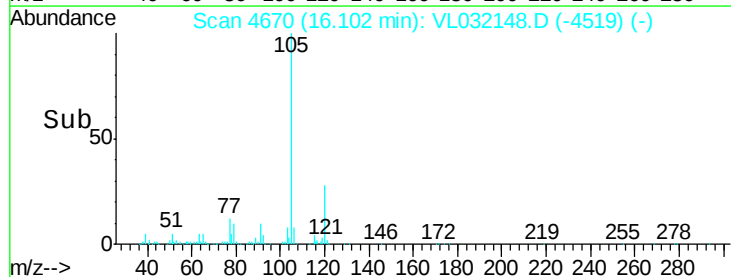
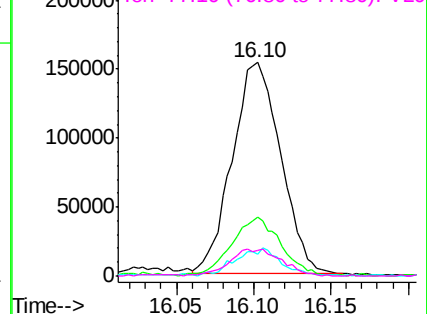


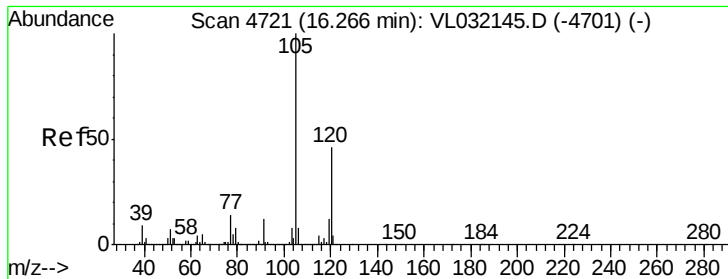
Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.61 ppbv

RT: 16.26 min Scan# 4719

Delta R.T. -0.02 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:105 Resp: 322039

Ion Ratio Lower Upper

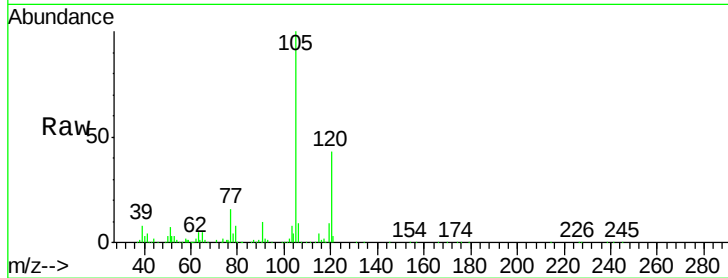
105 100

120 43.0 38.6 57.8

Manual Integrations
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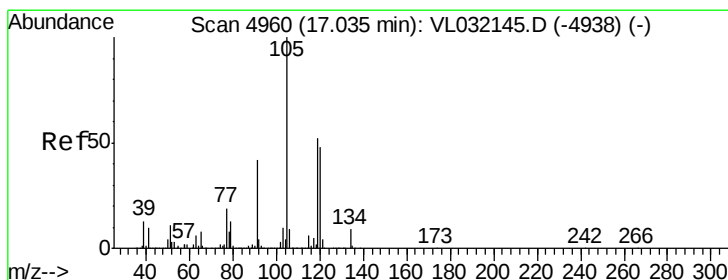
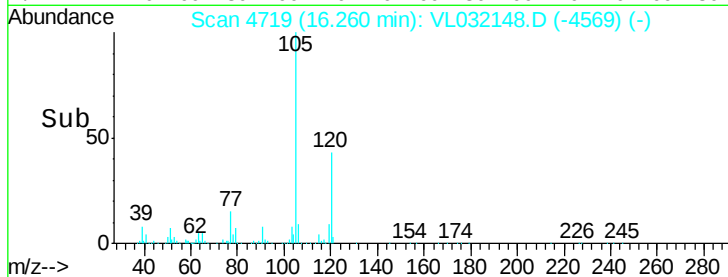
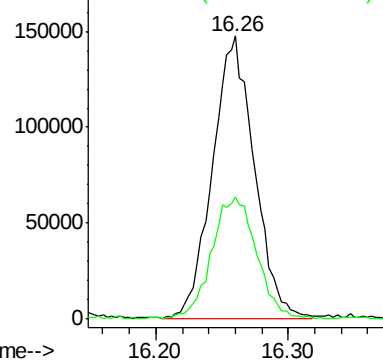
MMDadoda

7/2/2018 4:25:00 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.59 ppbv

RT: 17.03 min Scan# 4957

Delta R.T. -0.02 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Tgt Ion:105 Resp: 333887

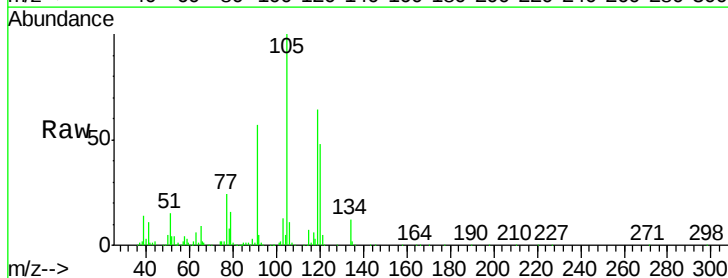
Ion Ratio Lower Upper

105 100

120 47.5 38.8 58.2

91 56.4 33.6 50.4#

77 23.7 16.0 24.0

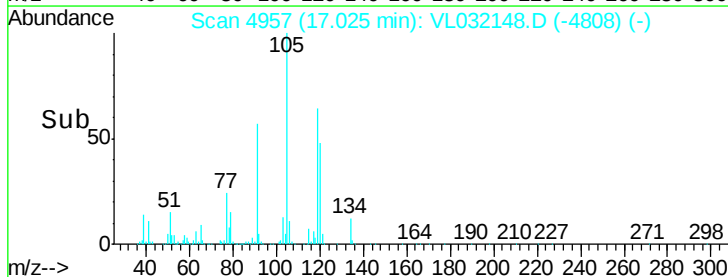
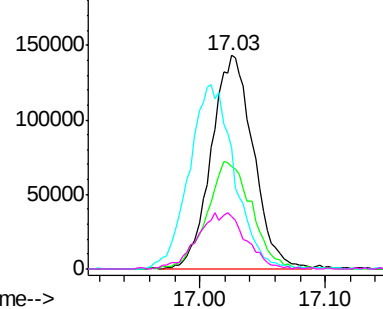


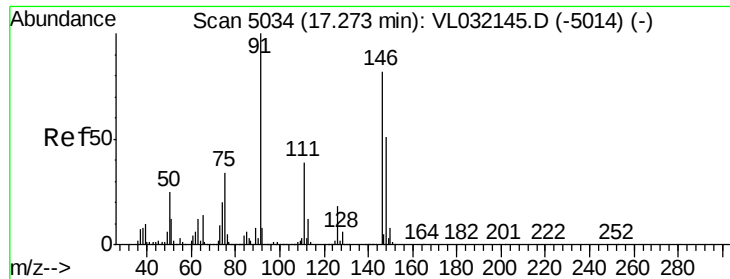
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 0.54 ppbv

RT: 17.27 min Scan# 5034

Delta R.T. -0.02 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Instrument :

MSVOA_L

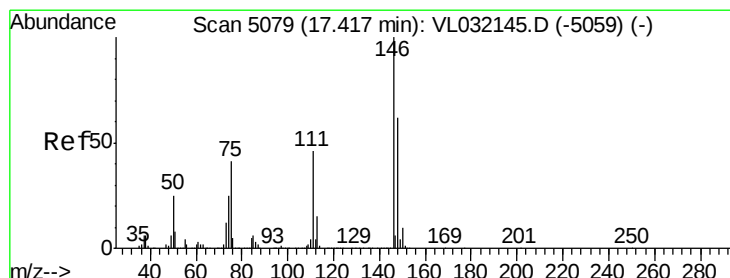
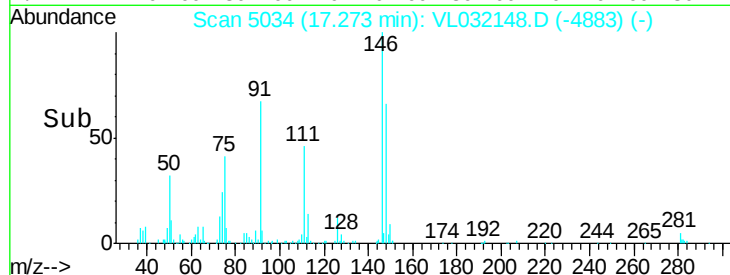
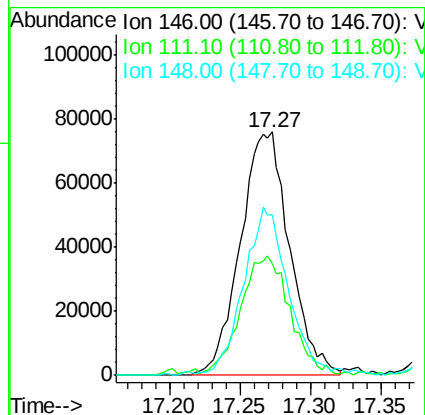
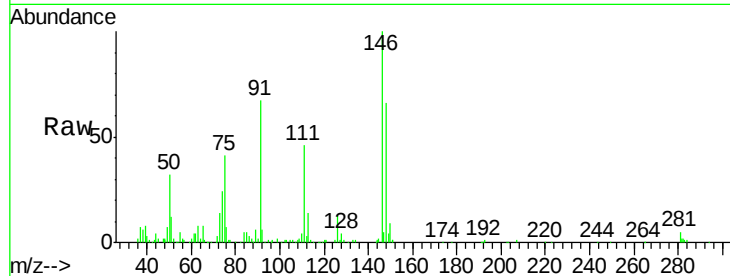
ClientSampleId :

VSTDIC0.5

Tot Ion:	146	Resp:	185019
Ion Ratio	Lower	Upper	
146	100		
111	50.8	22.9	68.8
148	63.9	31.7	95.1

Manual Integrations
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MMDadoda
7/2/2018 4:25:00 PM



#76

1,4-Dichlorobenzene

Concen: 0.56 ppbv m

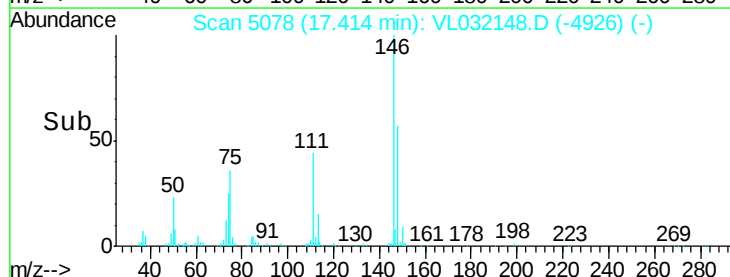
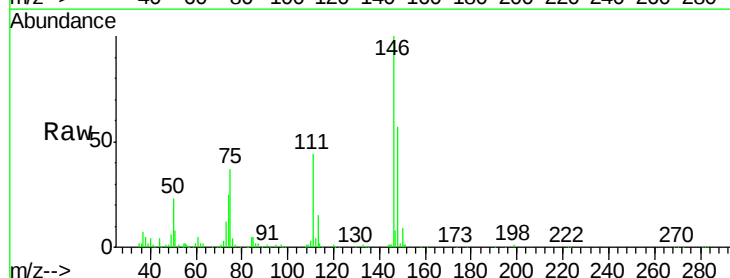
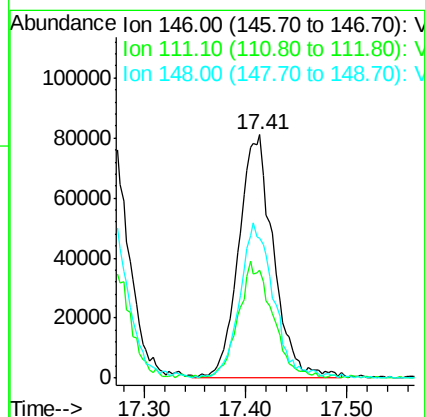
RT: 17.41 min Scan# 5078

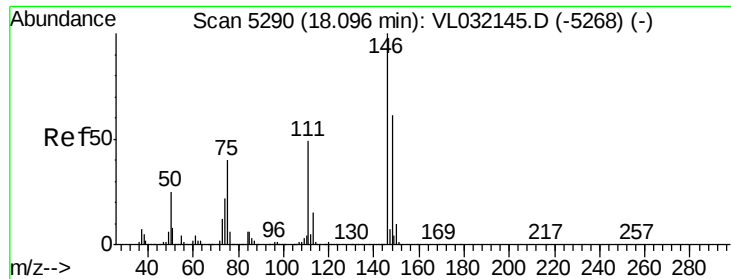
Delta R.T. -0.01 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Tgt Ion:	146	Resp:	194826
Ion Ratio	Lower	Upper	
146	100		
111	47.7	21.9	65.8
148	62.2	32.1	96.5





#77

1,2-Dichlorobenzene

Concen: 0.52 ppbv

RT: 18.09 min Scan# 5289

Delta R.T. -0.02 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Instrument :

MSVOA_L

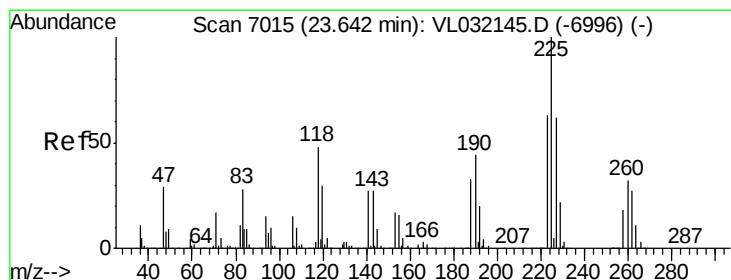
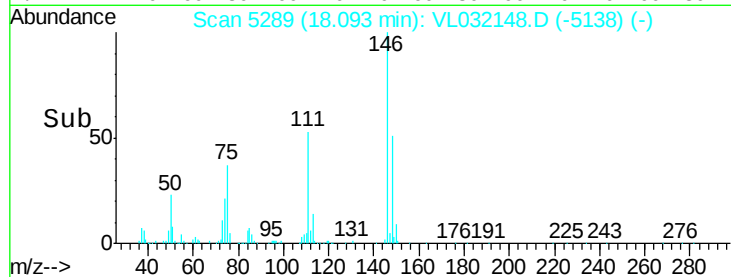
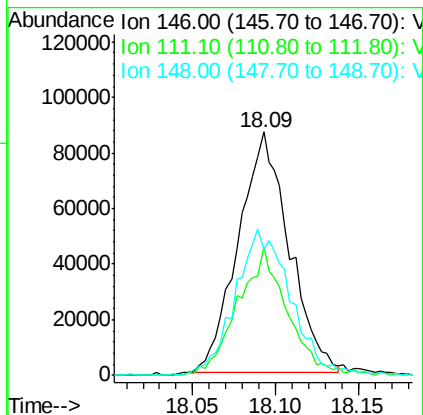
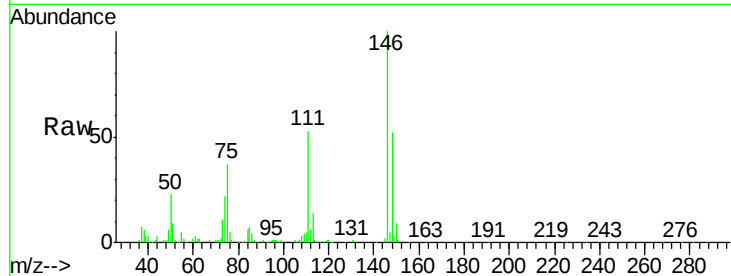
ClientSampleId :

VSTDIC0.5

Tot Ion:	146	Resp:	184847
Ion Ratio	Lower	Upper	
146	100		
111	51.8	23.4	70.3
148	66.5	32.0	96.0

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#78

Hexachloro-1,3-Butadiene

Concen: 0.72 ppbv m

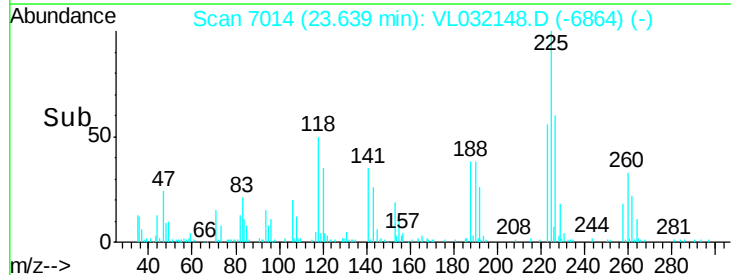
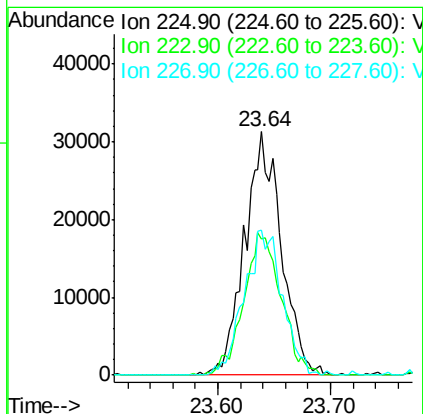
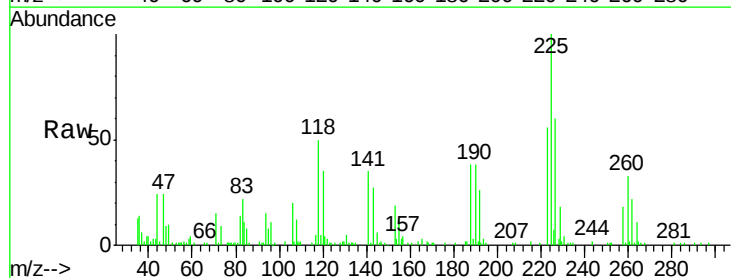
RT: 23.64 min Scan# 7014

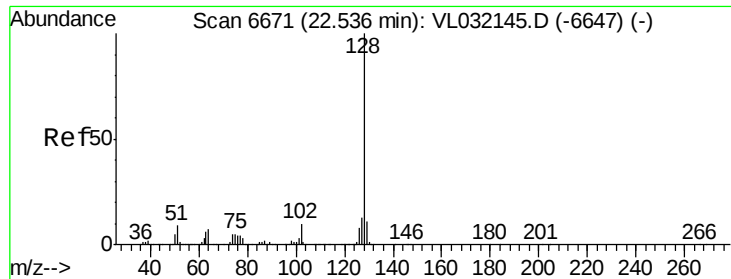
Delta R.T. -0.02 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Tgt Ion:	225	Resp:	70311
Ion Ratio	Lower	Upper	
225	100		
223	59.8	51.0	76.4
227	61.9	51.4	77.0





#79

Naphthalene

Concen: 0.45 ppbv m

RT: 22.54 min Scan# 6671

Delta R.T. -0.02 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Instrument :

MSVOA_L

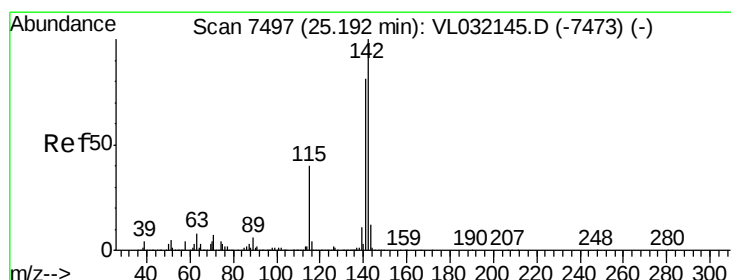
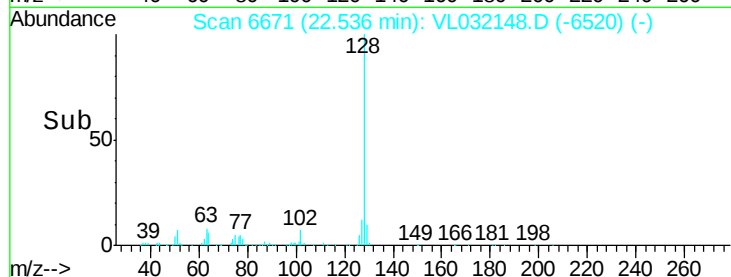
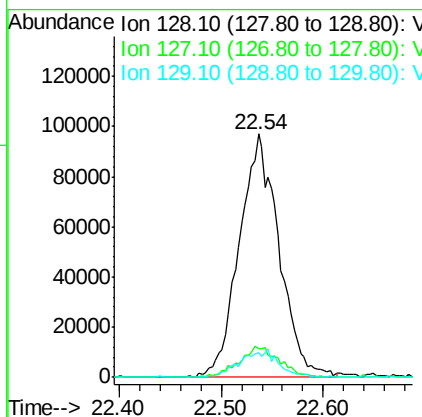
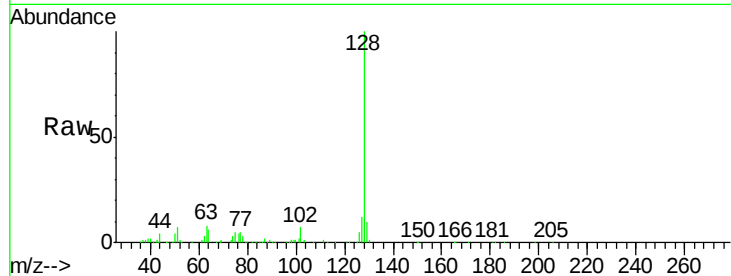
ClientSampleId :

VSTDIC0.5

Tot Ion:	128	Resp:	261875
Ion Ratio	Lower	Upper	
128	100		
127	11.9	10.5	15.7
129	10.0	9.0	13.6

Manual Integrations
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#80

Naphthalene, 2-methyl-

Concen: 0.16 ppbv

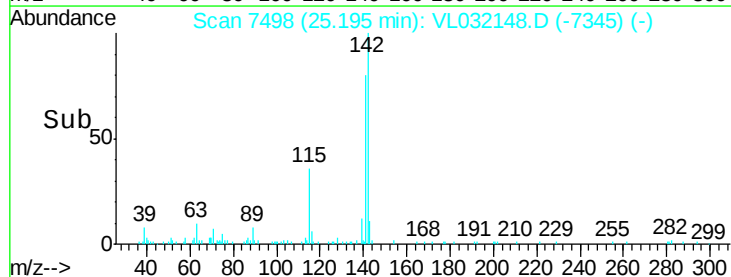
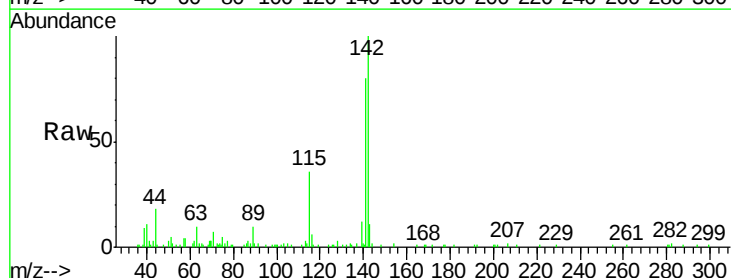
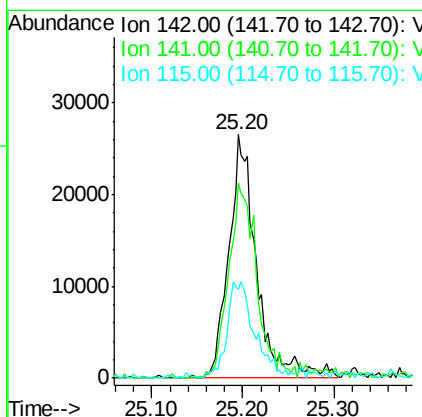
RT: 25.20 min Scan# 7498

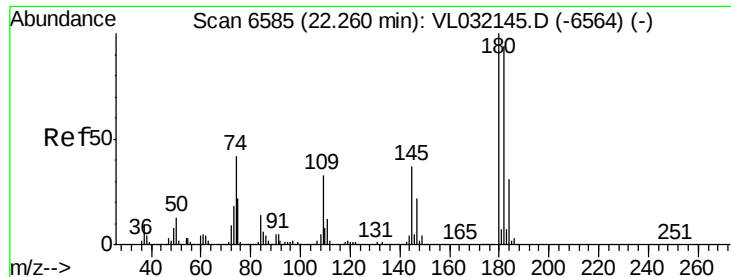
Delta R.T. -0.01 min

Lab File: VL032148.D

Acq: 29 Jun 2018 19:59

Tgt Ion:	142	Resp:	56289
Ion Ratio	Lower	Upper	
142	100		
141	82.4	65.8	98.6
115	40.3	29.4	44.0





#81
 1,2,4-Trichlorobenzene
 Concen: 0.51 ppbv m
 RT: 22.25 min Scan# 6583
 Delta R.T. -0.02 min
 Lab File: VL032148.D
 Acq: 29 Jun 2018 19:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
180	100	116028		
182	96.3		76.2	114.4
184	30.5		24.4	36.6

Manual Integrations
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