

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062918\
 Data File : VL032147.D
 Acq On : 29 Jun 2018 19:22
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 7/2/2018 4:24:55 PM

Quant Time: Jun 29 20:46:15 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 20:46:15 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	1566535	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	4003099	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3947633	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.68	95	3002301	10.23	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	267598	1.63	ppbv	97
3) Chlorodifluoromethane	3.07	51	210025	1.03	ppbv	97
4) Chloromethane	3.23	50	111018	1.02	ppbv	95
5) Vinyl Chloride	3.35	62	108844	0.97	ppbv	99
6) Bromomethane	3.58	94	62297	0.96	ppbv	100
7) Chloroethane	3.67	64	37841	0.91	ppbv #	86
8) Dichlorotetrafluoroethane	3.28	85	259720	1.15	ppbv	98
9) Propene	3.09	41	95971	0.97	ppbv	97
10) Heptane	8.34	43	273585	0.97	ppbv	99
11) Trichlorofluoromethane	4.07	101	242597	1.12	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.62	101	162190	1.11	ppbv	97
13) Ethanol	3.72	45	31274m	1.04	ppbv	
14) Bromoethene	3.86	108	74834	1.04	ppbv	98
15) Acetone	3.98	43	197901	0.95	ppbv	100
16) 1,3-Butadiene	3.42	39	86215	0.88	ppbv	99
17) tert-Butyl alcohol	4.44	59	122308	0.98	ppbv	99
18) 1,1-Dichloroethene	4.42	96	75243	1.05	ppbv	98
19) Isopropyl Alcohol	4.10	45	160076	0.98	ppbv	95
20) Methylene Chloride	4.48	84	74754	1.06	ppbv	94
21) Allyl Chloride	4.55	41	134583	1.04	ppbv	97
22) trans-1,2-Dichloroethene	5.04	96	78888	1.08	ppbv	97
23) Vinyl Acetate	5.23	43	344087	1.09	ppbv	99
24) 1,1-Dichloroethane	5.17	63	222689	0.93	ppbv	98
25) Ethyl Acetate	5.85	43	403037	0.88	ppbv	99
26) Hexane	5.86	57	187322	0.93	ppbv	95
27) Carbon Disulfide	4.70	76	180975	0.89	ppbv #	91
28) Methyl tert-Butyl Ether	5.20	73	324789	1.27	ppbv	99
29) Chloroform	5.93	83	267483	1.00	ppbv	99
30) Cyclohexane	7.34	84	172790m	1.04	ppbv	
31) cis-1,2-Dichloroethene	5.72	61	179750	1.00	ppbv	97
32) 1,1,1-Trichloroethane	6.71	97	282941	1.02	ppbv	99
34) 2-Butanone	5.42	43	262759	0.81	ppbv	100
35) Carbon Tetrachloride	7.23	117	291741	1.05	ppbv	96
36) Benzene	7.10	78	436962	1.01	ppbv	97
37) 1,2-Dichloroethane	6.50	62	203961	0.91	ppbv	98
38) Trichloroethene	8.05	130	154225	0.92	ppbv	96
39) 1,2-Dichloropropane	7.83	63	159870	1.00	ppbv	91
40) 1,4-Dioxane	8.07	88	64202m	0.86	ppbv	
41) Tetrahydrofuran	6.25	42	159295	0.82	ppbv	98
42) Bromodichloromethane	8.01	83	317342	1.05	ppbv	98
43) Methyl Methacrylate	8.23	69	167680	0.98	ppbv	98

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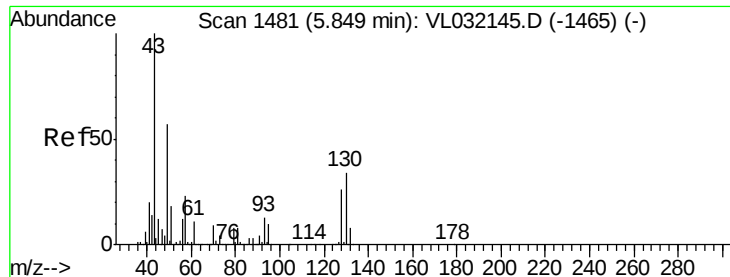
Manual Integrations
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Quant Time: Jun 29 20:46:15 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
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 QLast Update : Fri Jun 29 20:36:18 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.09	57	734109	1.03	ppbv	99
45) t-1,3-Dichloropropene	9.51	75	201371	0.95	ppbv	93
46) cis-1,3-Dichloropropene	8.93	75	245681	0.90	ppbv	97
47) 1,1,2-Trichloroethane	9.71	97	161080	0.89	ppbv	95
48) Dibromochloromethane	10.56	129	251791m	0.93	ppbv	
49) Bromoform	13.30	173	219292	1.06	ppbv	99
50) 4-Methyl-2-Pentanone	8.98	43	450669	0.89	ppbv	100
51) 2-Hexanone	10.39	43	364532	0.73	ppbv #	99
52) Tetrachloroethene	11.48	164	143842	0.90	ppbv	95
53) Toluene	10.05	91	506961	0.97	ppbv	98
54) 1,2-Dibromoethane	10.86	107	253555	0.95	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.38	131	191267	1.09	ppbv #	1
57) Chlorobenzene	12.40	112	380104	1.02	ppbv	95
58) Ethyl Benzene	12.96	91	707105	1.03	ppbv	93
59) m/p-Xylene	13.25	91	1160211m	2.13	ppbv	
60) o-Xylene	13.95	91	588191	1.09	ppbv	97
61) Styrene	13.78	104	465792	2.89	ppbv	98
62) Isopropylbenzene	14.93	105	869061	1.21	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.94	83	400844	0.96	ppbv	99
64) n-propylbenzene	15.83	120	223552	1.19	ppbv	87
65) tert-Butylbenzene	17.01	119	778505	1.23	ppbv	96
66) Benzyl Chloride	17.26	91	438915	5.43	ppbv	97
67) sec-Butylbenzene	17.56	105	1105694	1.20	ppbv	98
69) p-Isopropyltoluene	17.92	119	877481	1.16	ppbv	97
70) n-Butylbenzene	18.82	91	903939	1.14	ppbv	99
71) 2-Chlorotoluene	15.72	91	657640	1.19	ppbv	96
72) 4-Ethyltoluene	16.10	105	720390	1.18	ppbv	98
73) 1,3,5-Trimethylbenzene	16.26	105	669969	1.23	ppbv	95
74) 1,2,4-Trimethylbenzene	17.02	105	694353	1.20	ppbv #	91
75) 1,3-Dichlorobenzene	17.27	146	396341	1.12	ppbv	98
76) 1,4-Dichlorobenzene	17.41	146	373397	1.04	ppbv	94
77) 1,2-Dichlorobenzene	18.09	146	383713	1.04	ppbv	96
78) Hexachloro-1,3-Butadiene	23.64	225	132177	1.32	ppbv	97
79) Naphthalene	22.54	128	522914	0.86	ppbv	97
80) Naphthalene, 2-methyl-	25.20	142	123176	0.34	ppbv	98
81) 1,2,4-Trichlorobenzene	22.26	180	249038	1.05	ppbv	99

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.85 min Scan# 1480

Delta R.T. -0.02 min

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 49 Resp: 1566535

Ion Ratio Lower Upper

49 100

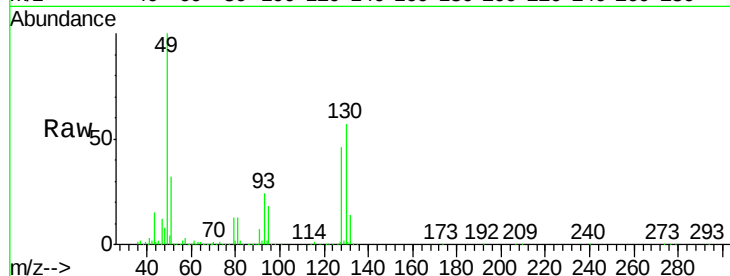
128 46.9 23.4 70.0

130 60.3 30.3 90.9

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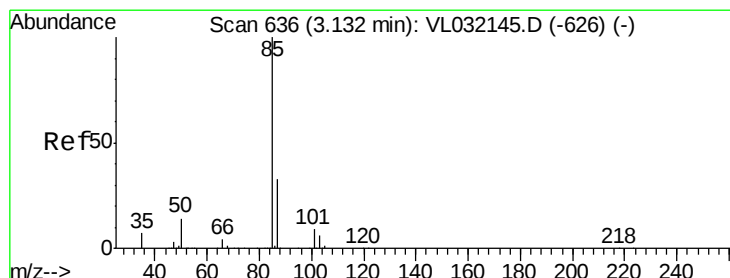
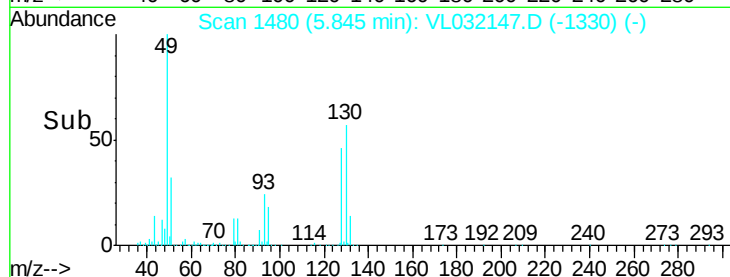
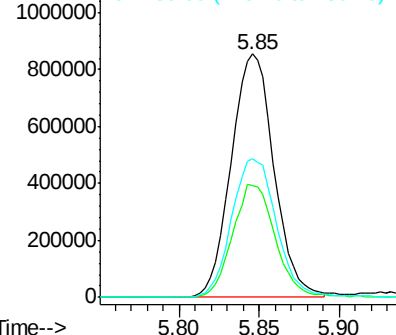
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 1.63 ppbv

RT: 3.13 min Scan# 636

Delta R.T. -0.01 min

Lab File: VL032147.D

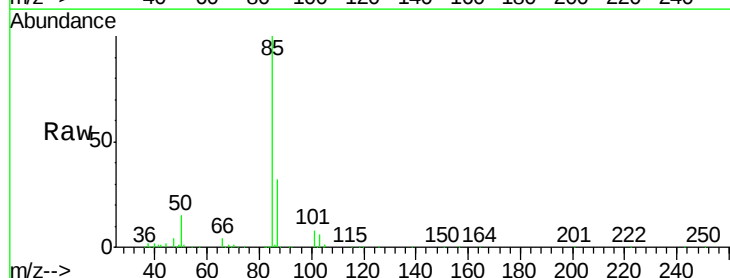
Acq: 29 Jun 2018 19:22

Tgt Ion: 85 Resp: 267598

Ion Ratio Lower Upper

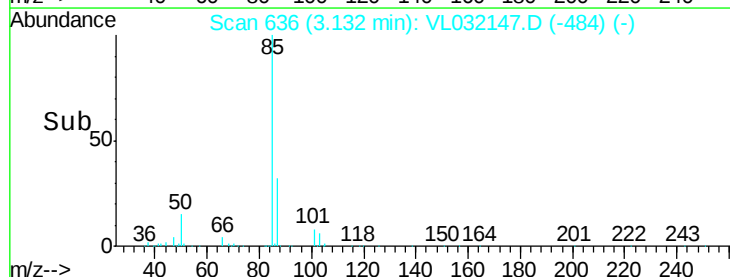
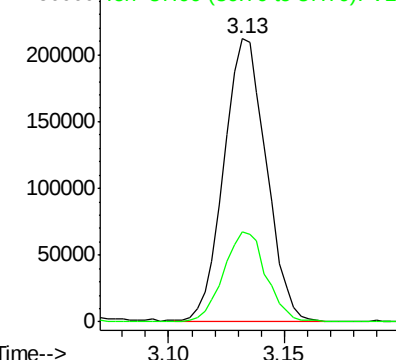
85 100

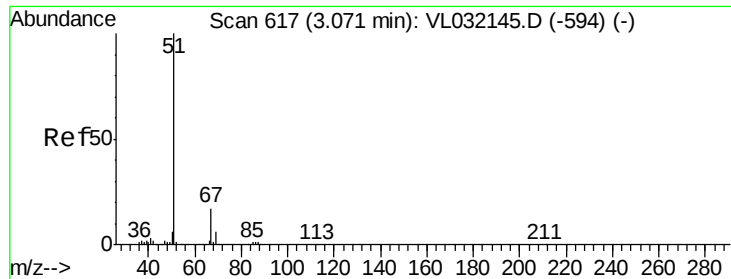
87 31.9 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.03 ppbv

RT: 3.07 min Scan# 617

Delta R.T. -0.01 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 51 Resp: 210025

Ion Ratio Lower Upper

51 100

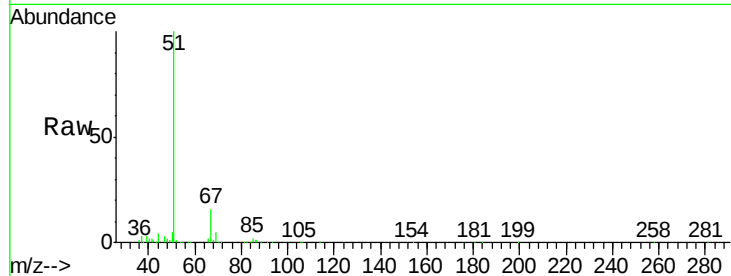
67 17.7 13.2 19.8

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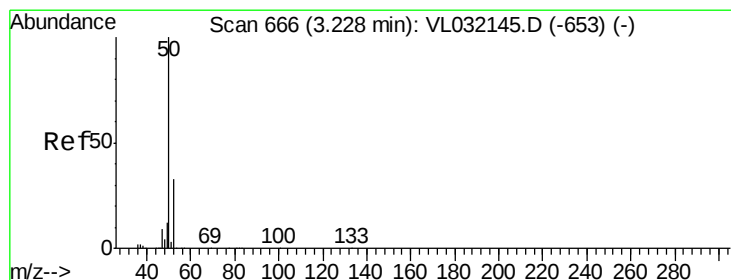
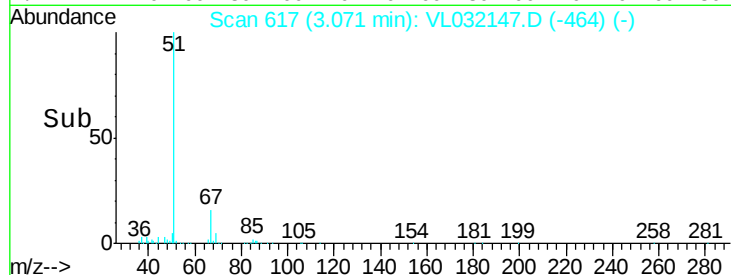
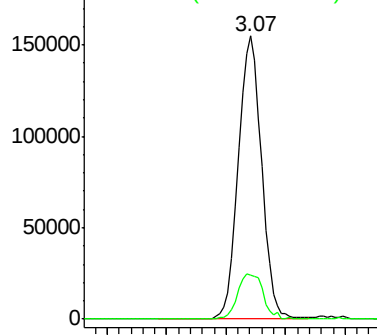
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 1.02 ppbv

RT: 3.23 min Scan# 667

Delta R.T. -0.01 min

Lab File: VL032147.D

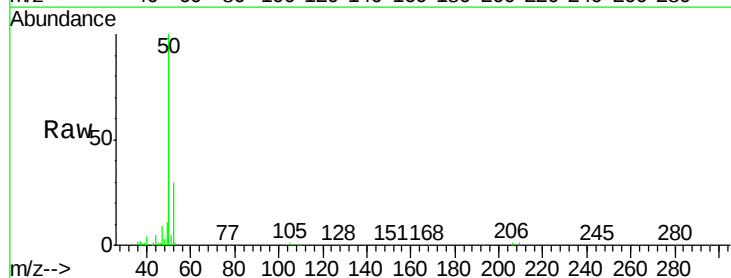
Acq: 29 Jun 2018 19:22

Tgt Ion: 50 Resp: 111018

Ion Ratio Lower Upper

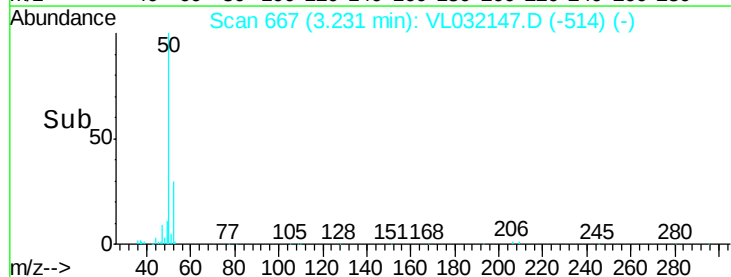
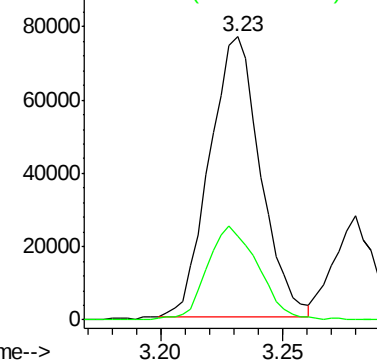
50 100

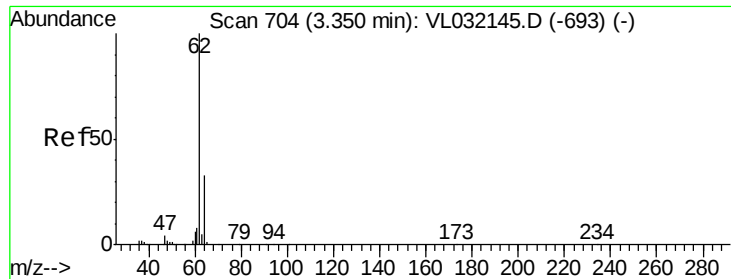
52 29.7 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.97 ppbv

RT: 3.35 min Scan# 704

Delta R.T. -0.01 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

Instrument :

MSVOA_L

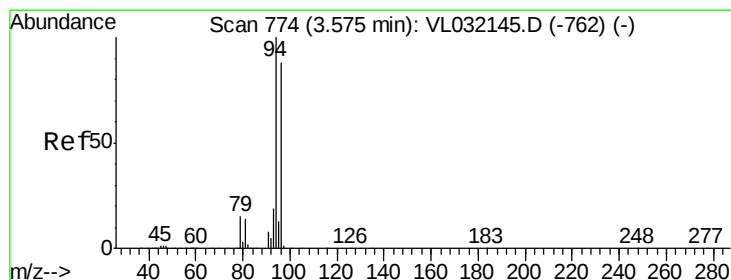
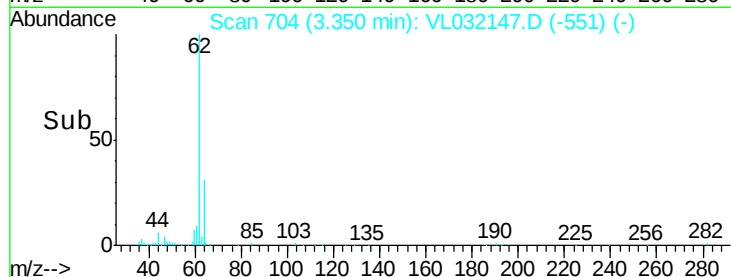
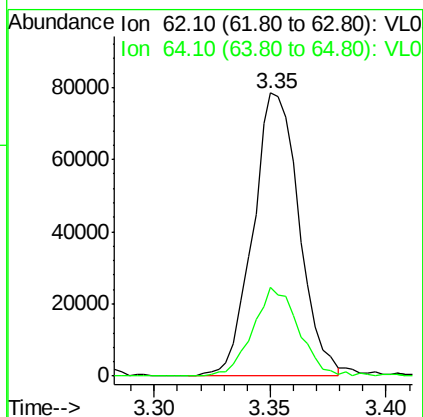
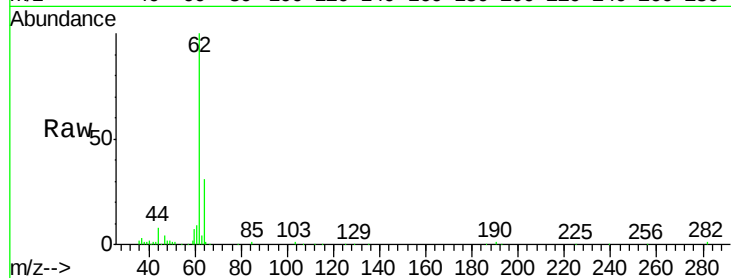
ClientSampleId :

VSTDIC001

Tot Ion	Ratio	Lower	Upper
62	100		
64	32.3	26.1	39.1

Manual Integrations
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#6

Bromomethane

Concen: 0.96 ppbv

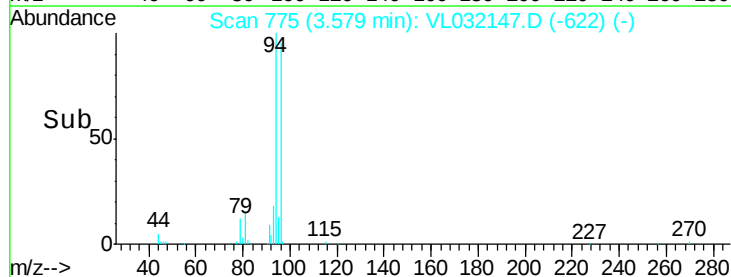
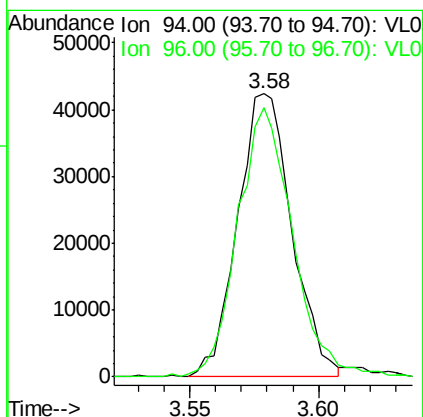
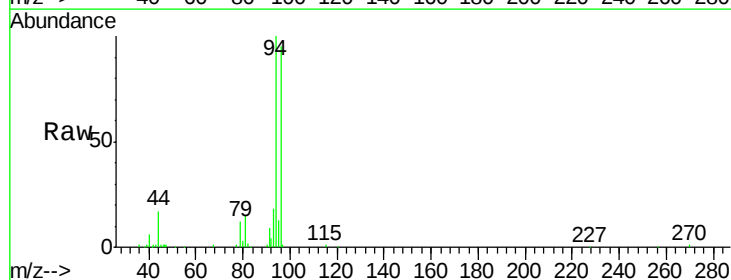
RT: 3.58 min Scan# 775

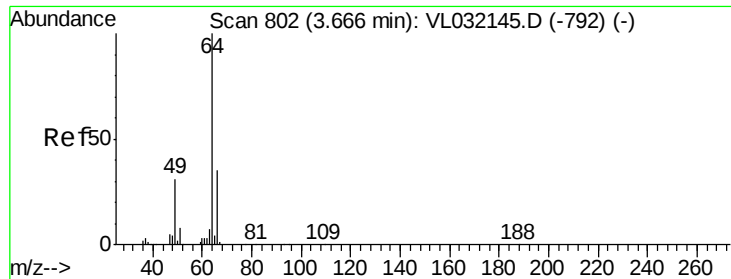
Delta R.T. -0.01 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

Tgt Ion	Ratio	Lower	Upper
94	100		
96	93.8	74.7	112.1





#7

Chloroethane

Concen: 0.91 ppbv

RT: 3.67 min Scan# 803

Delta R.T. -0.00 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 64 Resp: 37841

Ion Ratio Lower Upper

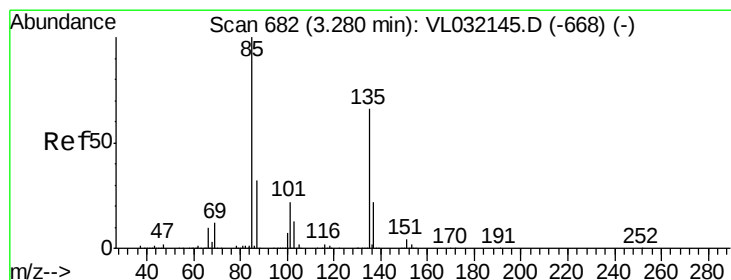
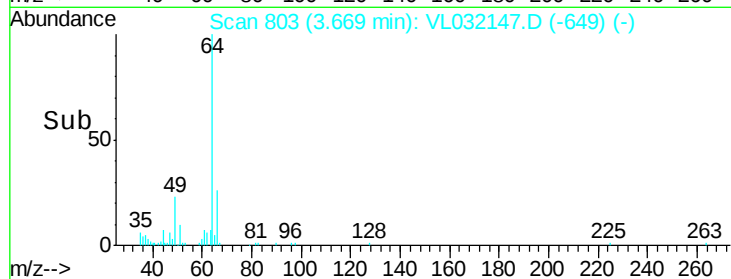
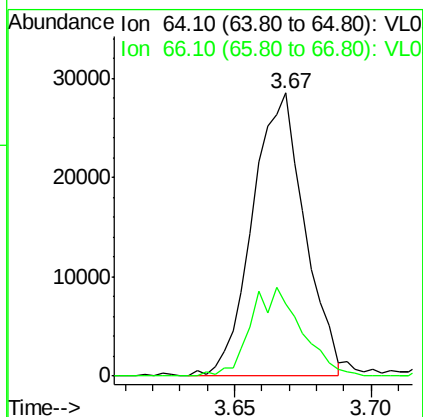
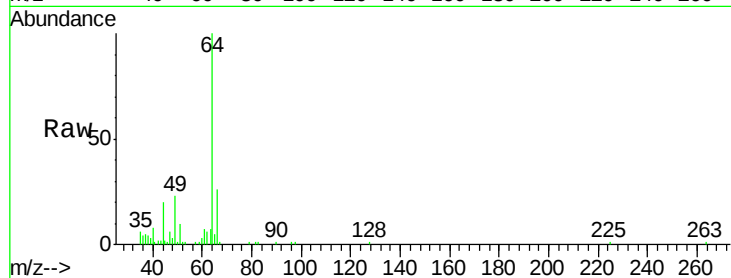
64 100

66 25.6 26.9 40.3#

Manual Integrations
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#8

Dichlorotetrafluoroethane

Concen: 1.15 ppbv

RT: 3.28 min Scan# 682

Delta R.T. -0.01 min

Lab File: VL032147.D

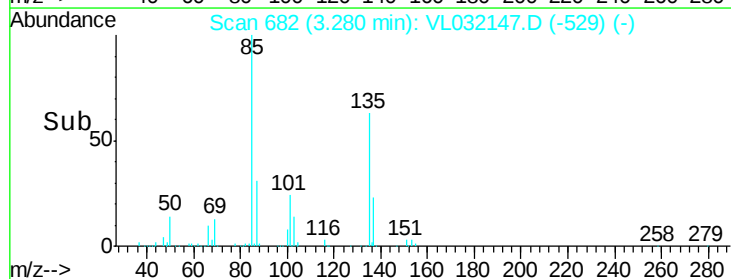
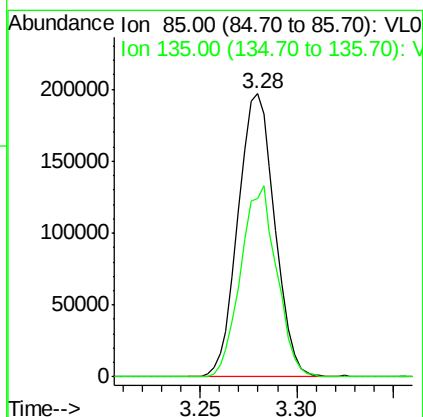
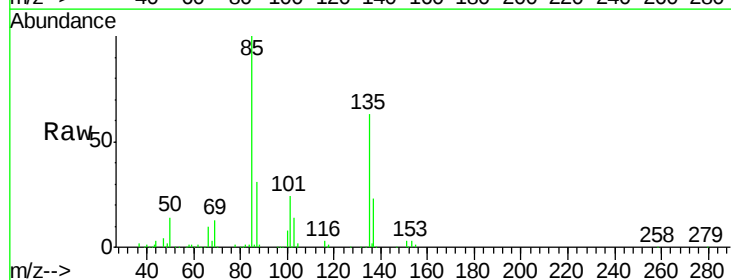
Acq: 29 Jun 2018 19:22

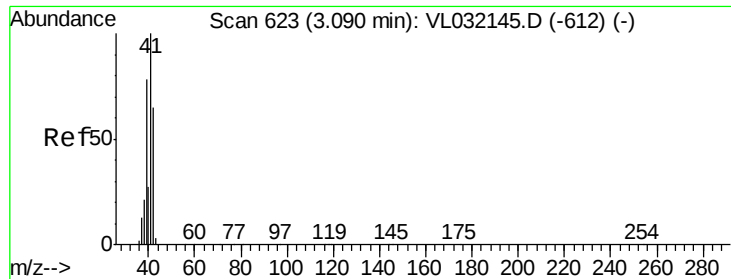
Tgt Ion: 85 Resp: 259720

Ion Ratio Lower Upper

85 100

135 66.4 54.6 82.0





#9

Propene

Concen: 0.97 ppbv

RT: 3.09 min Scan# 624

Delta R.T. -0.01 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 41 Resp: 95971

Ion Ratio Lower Upper

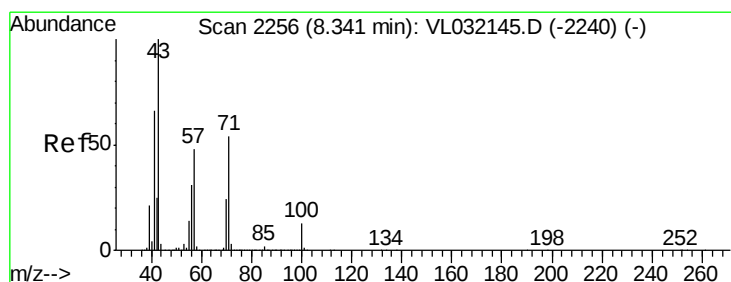
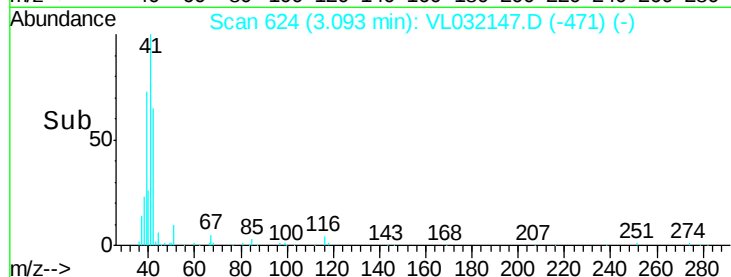
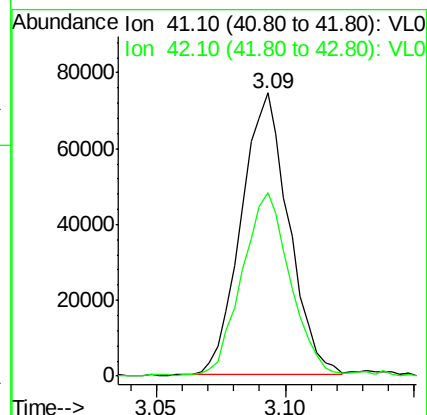
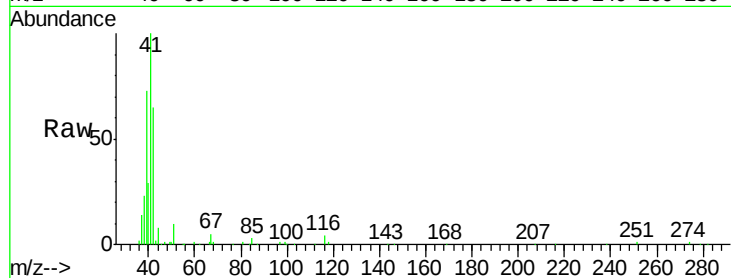
41 100

42 67.9 56.2 84.4

Manual Integrations
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#10

Heptane

Concen: 0.97 ppbv

RT: 8.34 min Scan# 2256

Delta R.T. -0.02 min

Lab File: VL032147.D

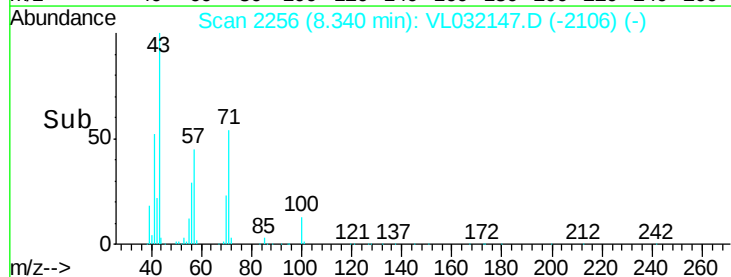
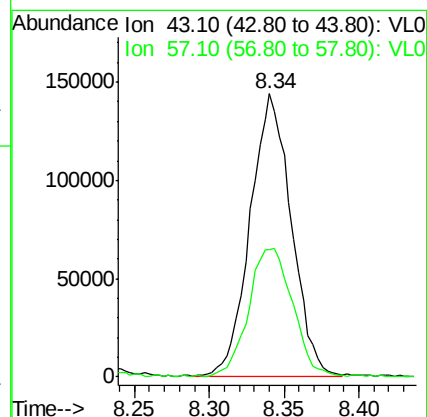
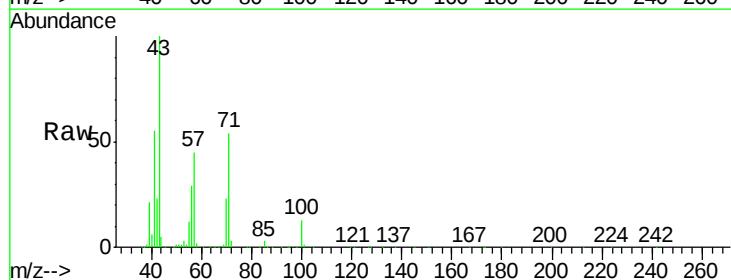
Acq: 29 Jun 2018 19:22

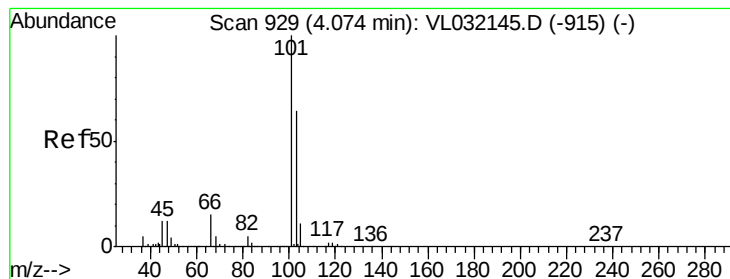
Tgt Ion: 43 Resp: 273585

Ion Ratio Lower Upper

43 100

57 48.8 39.8 59.8





#11

Trichlorofluoromethane

Concen: 1.12 ppbv

RT: 4.07 min Scan# 929

Delta R.T. -0.01 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:101 Resp: 242597

Ion Ratio Lower Upper

101 100

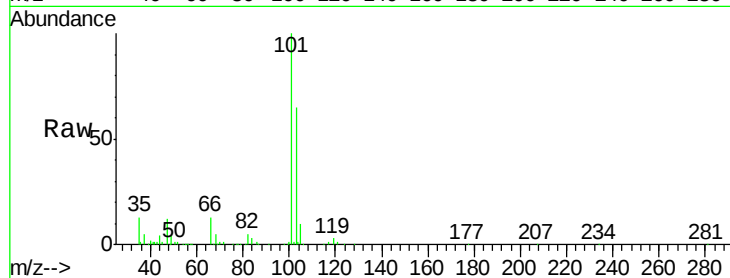
103 64.7 51.4 77.0

Manual Integrations

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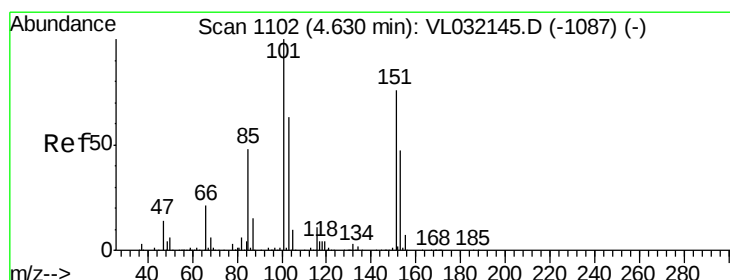
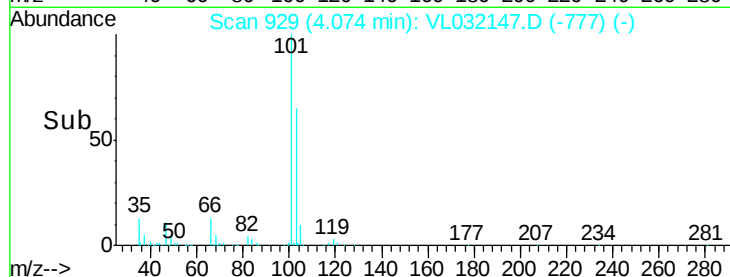
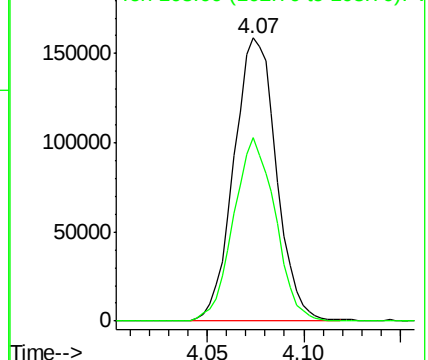
MMDadoda

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 1.11 ppbv

RT: 4.62 min Scan# 1100

Delta R.T. -0.02 min

Lab File: VL032147.D

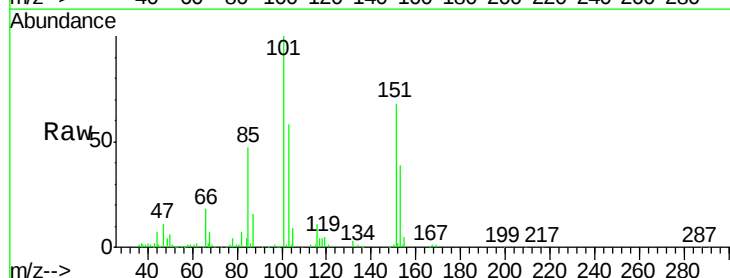
Acq: 29 Jun 2018 19:22

Tgt Ion:101 Resp: 162190

Ion Ratio Lower Upper

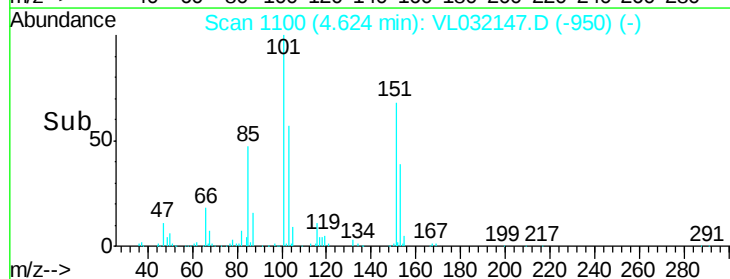
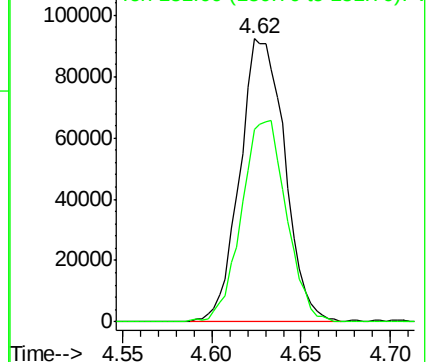
101 100

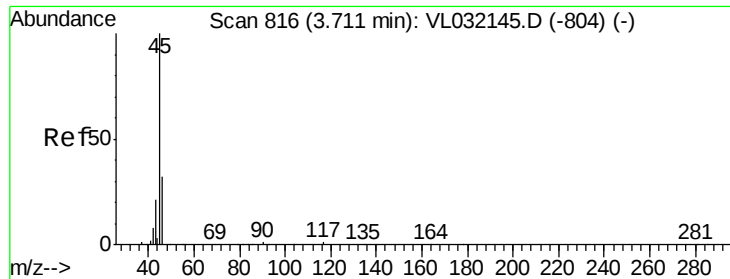
151 71.2 58.8 88.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

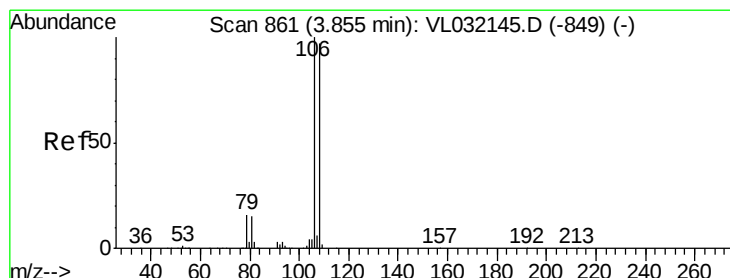
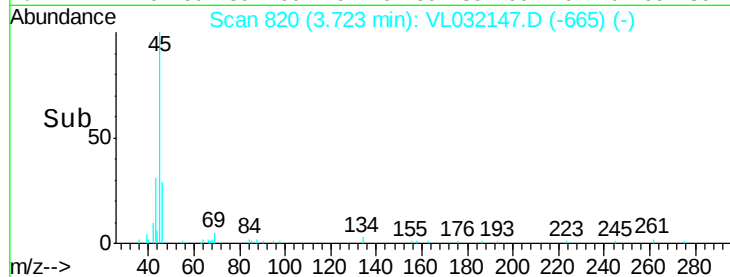
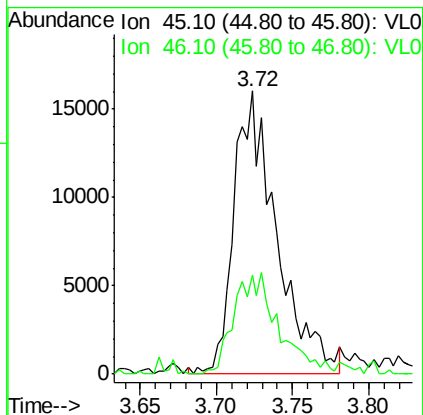
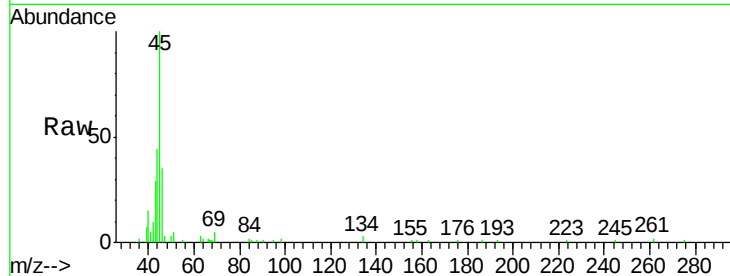
Concen: 1.04 ppbv m
RT: 3.72 min Scan# 820
Delta R.T. -0.00 min
Lab File: VL032147.D
Acq: 29 Jun 2018 19:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	45	Resp	31274
Ion Ratio	100	Lower	Upper
45	100		
46	37.2	14.6	58.4

Manual Integrations
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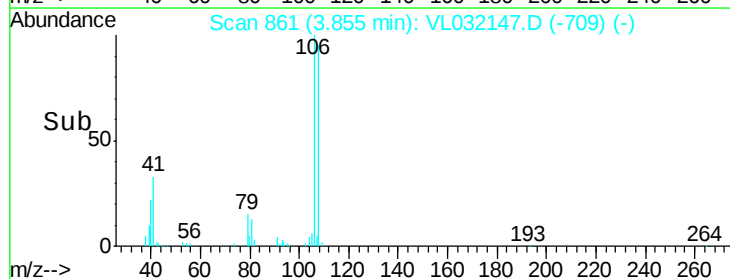
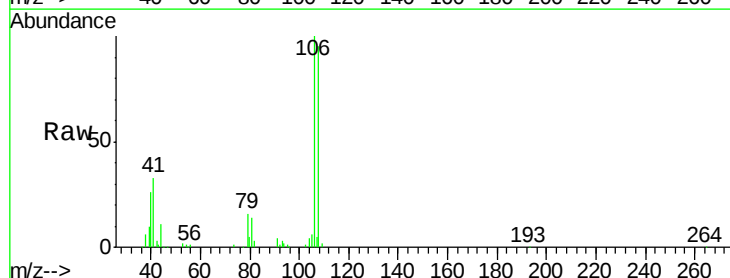
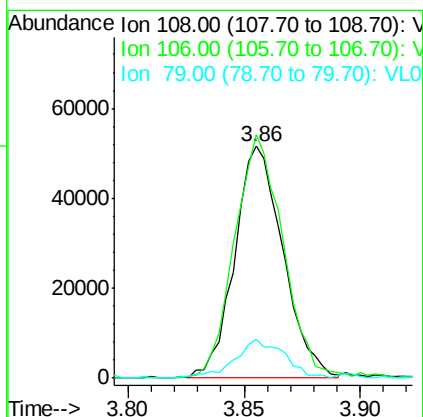


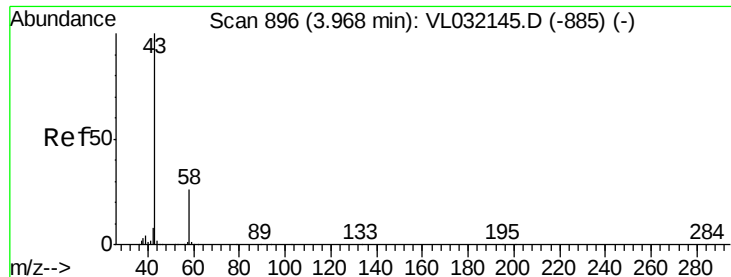
#14

Bromoethene

Concen: 1.04 ppbv
RT: 3.86 min Scan# 861
Delta R.T. -0.01 min
Lab File: VL032147.D
Acq: 29 Jun 2018 19:22

Tgt Ion	108	Resp	74834
Ion Ratio	100	Lower	Upper
108	100		
106	106.7	86.3	129.5
79	17.8	12.7	19.1





#15

Acetone

Concen: 0.95 ppbv

RT: 3.98 min Scan# 899

Delta R.T. -0.00 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 43 Resp: 197901

Ion Ratio Lower Upper

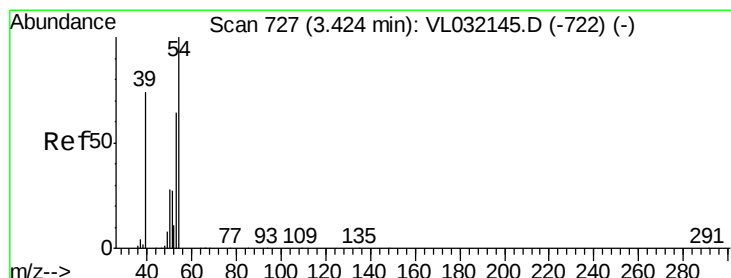
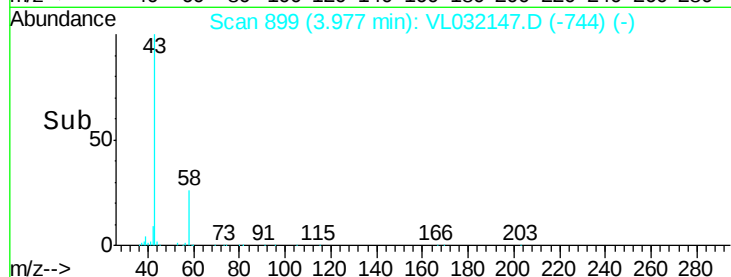
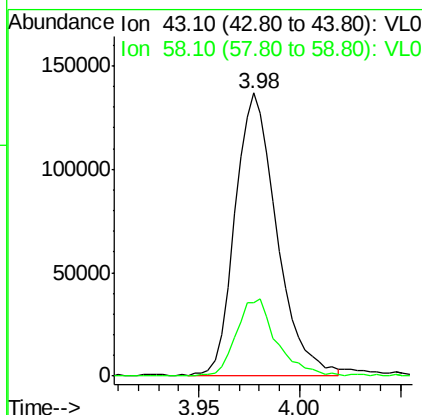
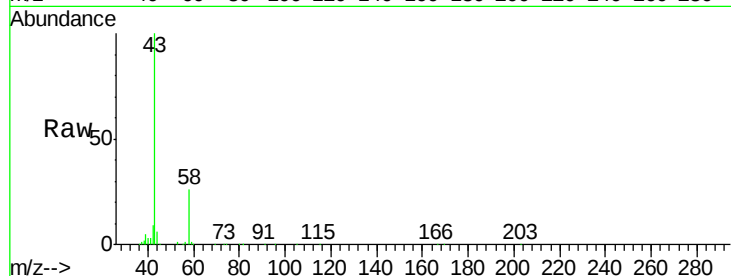
43 100

58 26.6 21.4 32.0

Manual Integrations
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#16

1,3-Butadiene

Concen: 0.88 ppbv

RT: 3.42 min Scan# 727

Delta R.T. -0.01 min

Lab File: VL032147.D

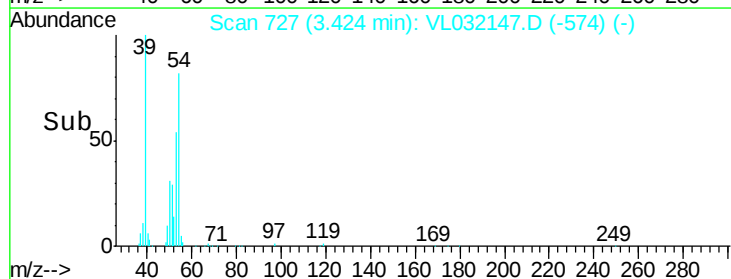
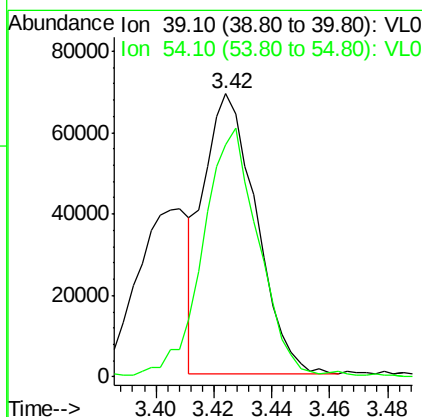
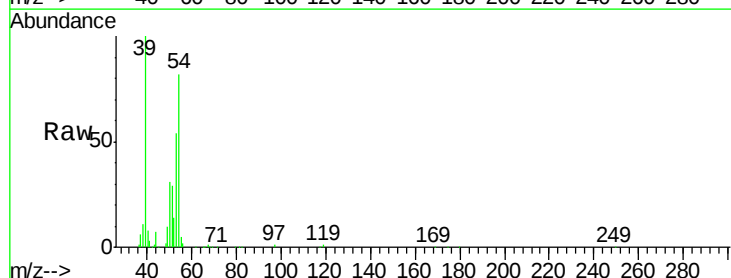
Acq: 29 Jun 2018 19:22

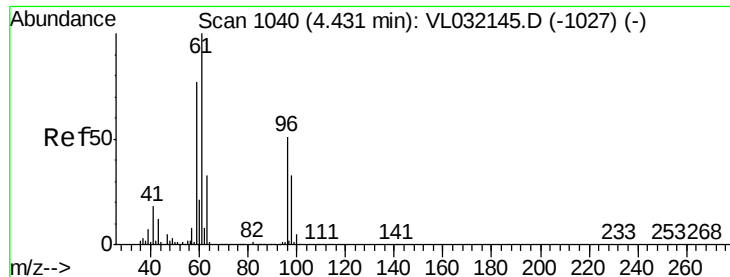
Tgt Ion: 39 Resp: 86215

Ion Ratio Lower Upper

39 100

54 95.9 75.8 113.6





#17

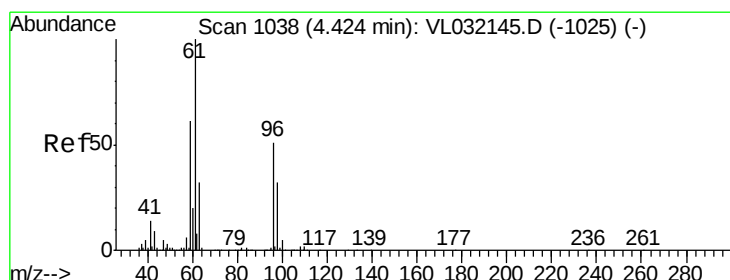
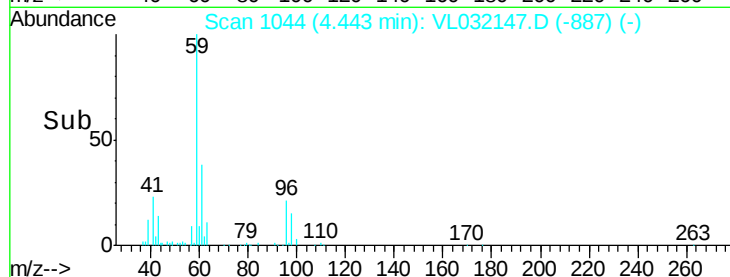
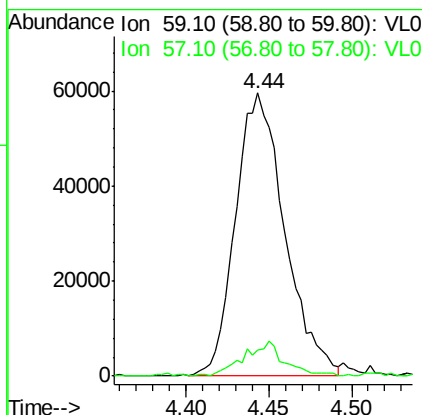
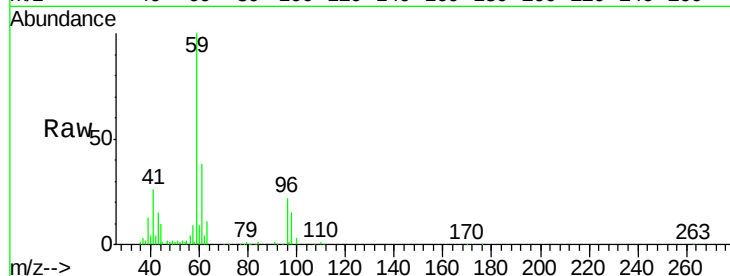
tert-Butyl alcohol
 Concen: 0.98 ppbv
 RT: 4.44 min Scan# 1044
 Delta R.T. 0.01 min
 Lab File: VL032147.D
 Acq: 29 Jun 2018 19:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	59	Resp	122308
Ion Ratio	59	100	
Lower	57	10.5	8.2
Upper			12.2

Manual Integrations
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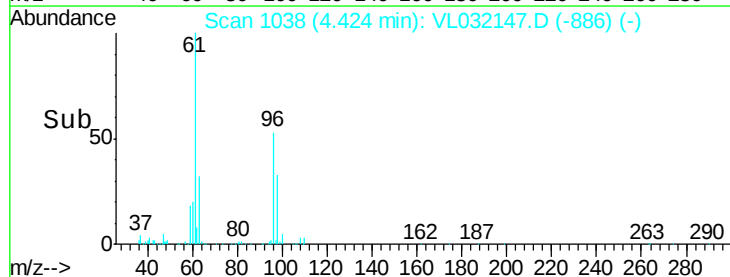
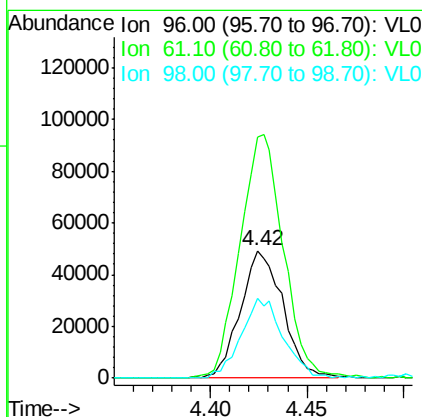
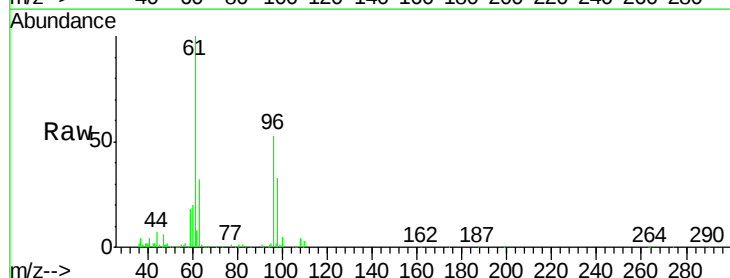
MMDadoda
 7/2/2018 4:24:55 PM

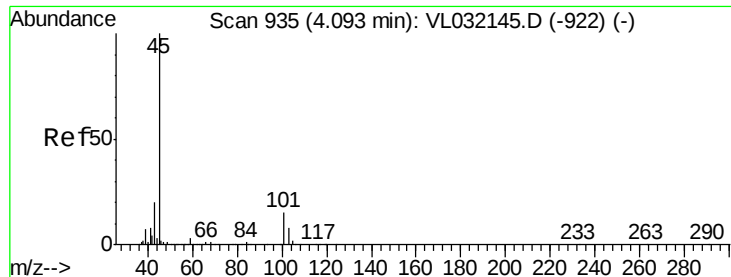


#18

1,1-Dichloroethene
 Concen: 1.05 ppbv
 RT: 4.42 min Scan# 1038
 Delta R.T. -0.01 min
 Lab File: VL032147.D
 Acq: 29 Jun 2018 19:22

Tgt Ion	96	Resp	75243
Ion Ratio	96	100	
Lower	61	189.6	154.1
Upper	98	62.4	50.3





#19

Isopropyl Alcohol

Concen: 0.98 ppbv

RT: 4.10 min Scan# 938

Delta R.T. -0.00 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 45 Resp: 160076

Ion Ratio Lower Upper

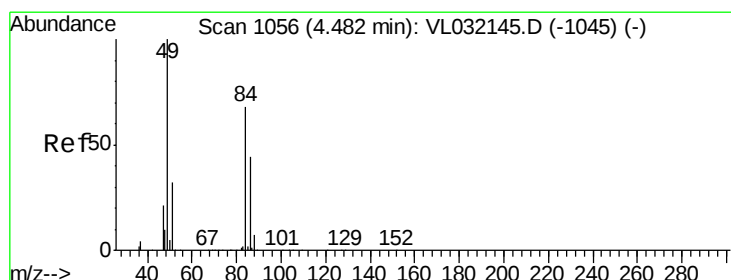
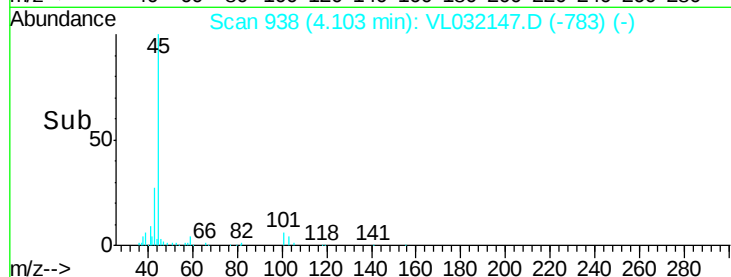
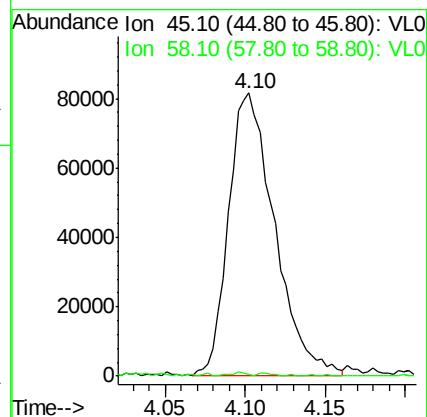
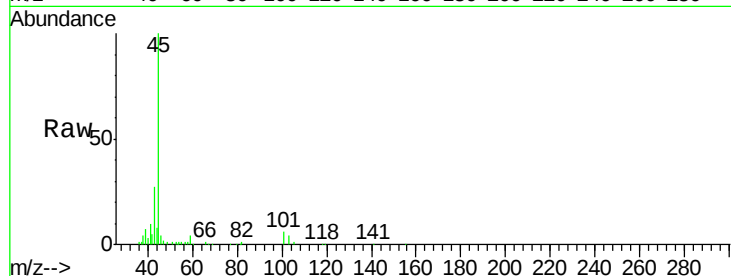
45 100

58 33.8 29.4 44.0

Manual Integrations
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#20

Methylene Chloride

Concen: 1.06 ppbv

RT: 4.48 min Scan# 1056

Delta R.T. -0.01 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

Tgt Ion: 84 Resp: 74754

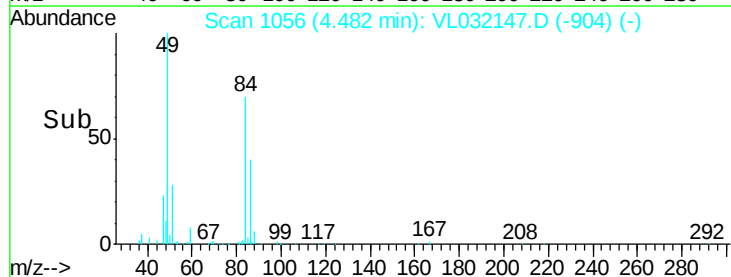
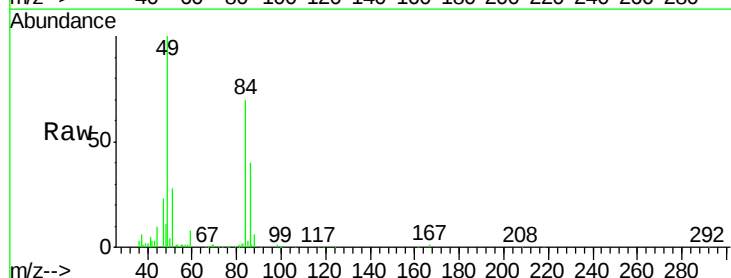
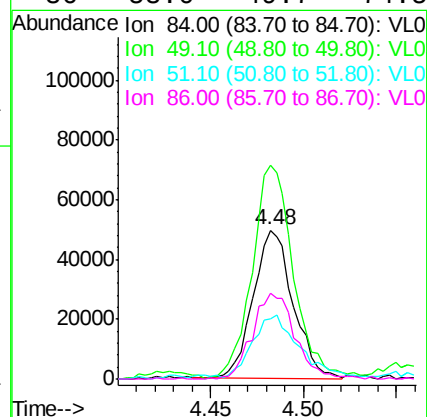
Ion Ratio Lower Upper

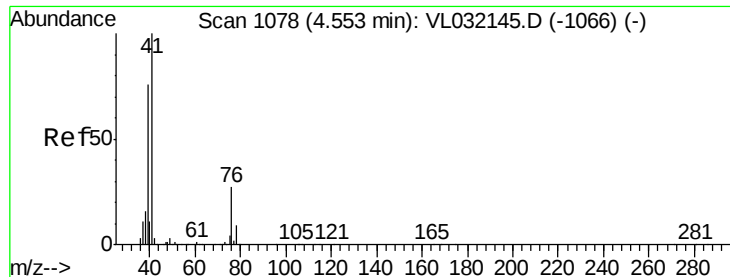
84 100

49 142.0 119.6 179.4

51 39.0 36.3 54.5

86 58.0 49.7 74.5





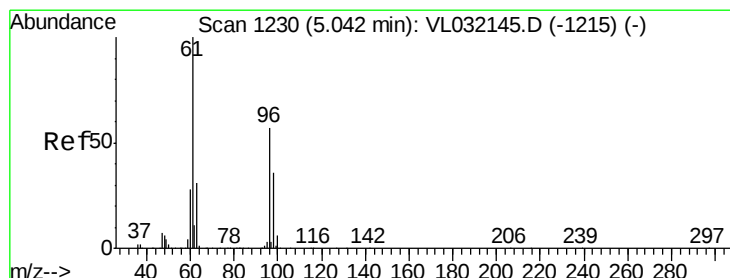
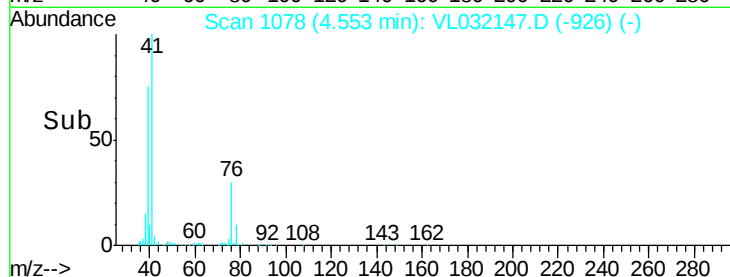
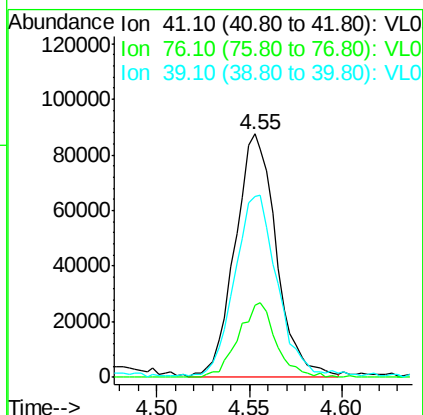
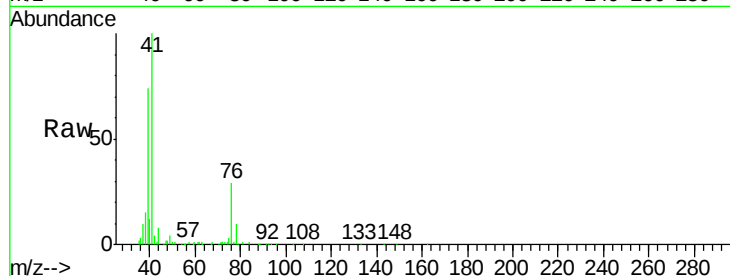
#21
 Allvl Chloride
 Concen: 1.04 ppbv
 RT: 4.55 min Scan# 1078
 Delta R.T. -0.01 min
 Lab File: VL032147.D
 Acq: 29 Jun 2018 19:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
41	100	134583		
76	28.4		22.5	33.7
39	78.7		60.5	90.7

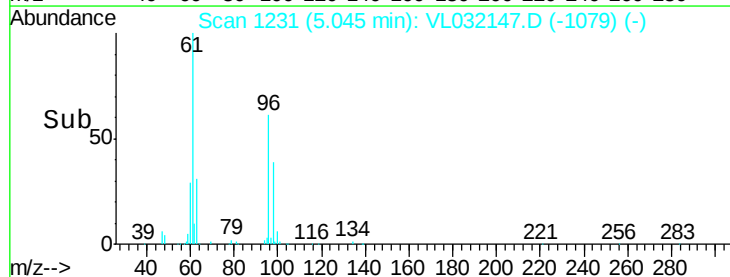
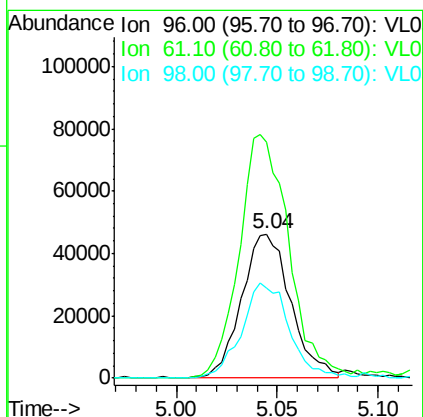
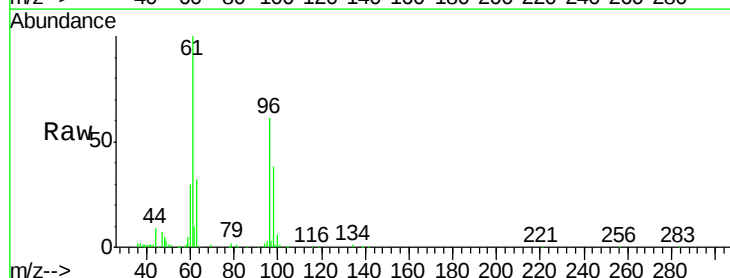
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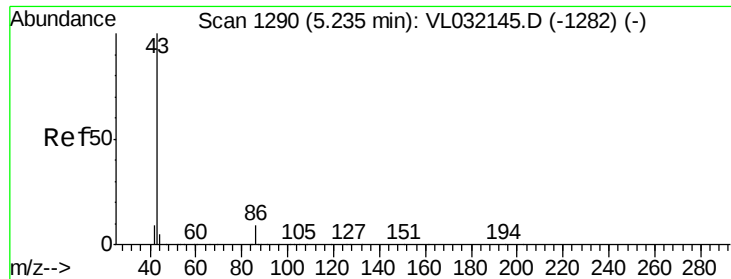
MMDadoda
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#22
 trans-1,2-Dichloroethene
 Concen: 1.08 ppbv
 RT: 5.04 min Scan# 1231
 Delta R.T. -0.01 min
 Lab File: VL032147.D
 Acq: 29 Jun 2018 19:22

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	78888		
61	163.9		135.2	202.8
98	62.6		49.7	74.5





#23

Vinyl Acetate

Concen: 1.09 ppbv

RT: 5.23 min Scan# 1290

Delta R.T. -0.01 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

Instrument :

MSVOA_L

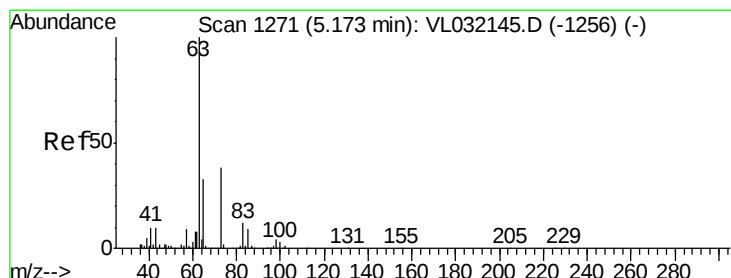
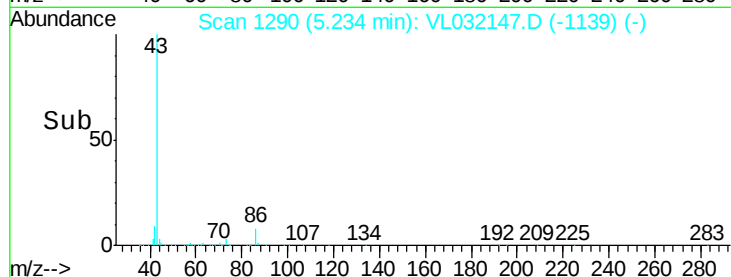
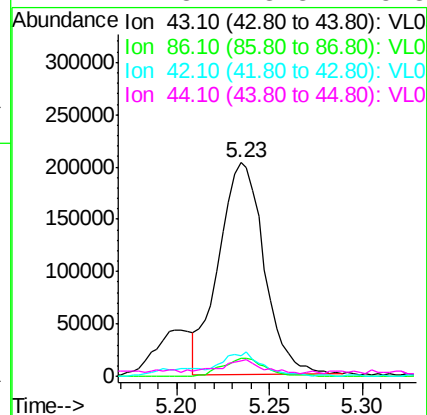
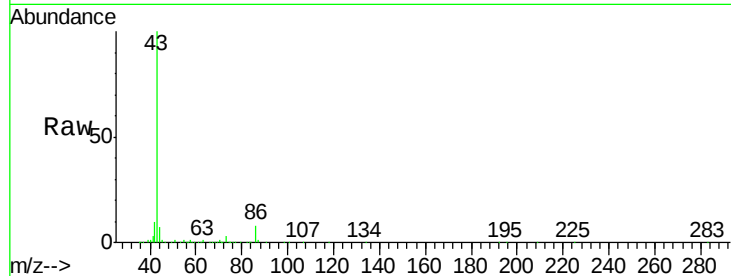
ClientSampleId :

VSTDIC001

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100		344087		
86	8.2	6.2	9.4		
42	9.5	6.9	10.3		
44	4.8	3.8	5.8		

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 0.93 ppbv

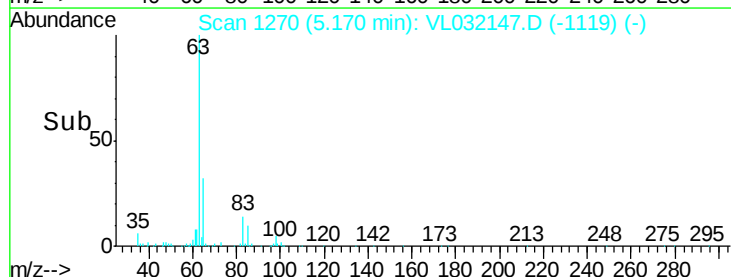
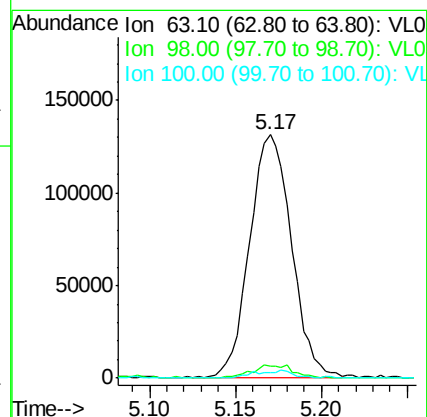
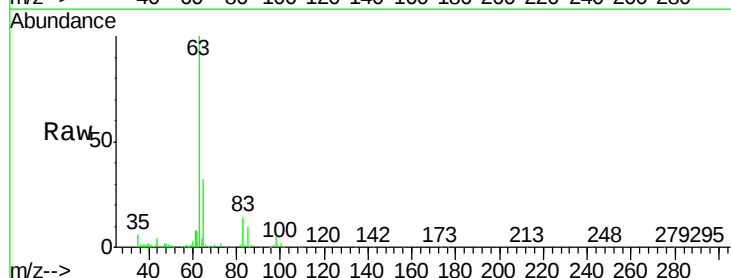
RT: 5.17 min Scan# 1270

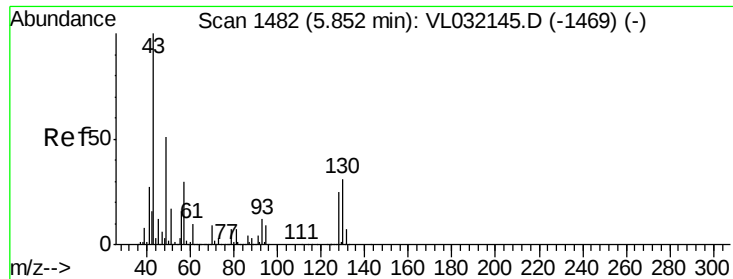
Delta R.T. -0.01 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
63	100		222689		
98	5.1	2.4	7.2		
100	2.3	1.7	5.0		





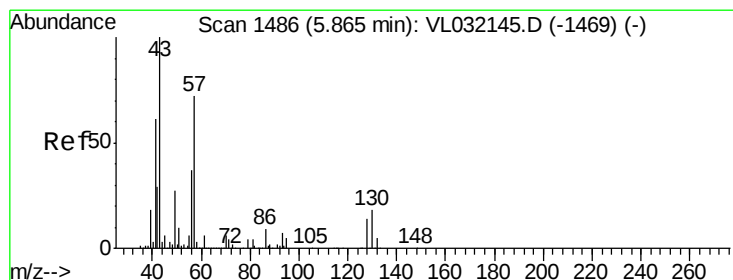
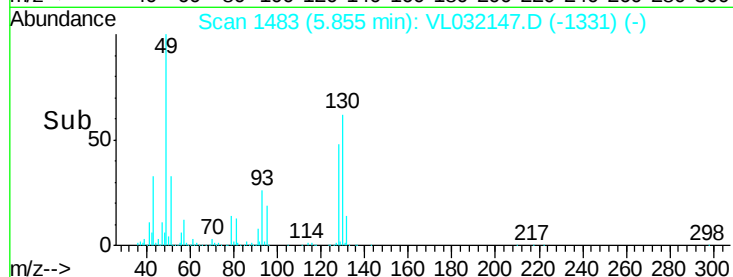
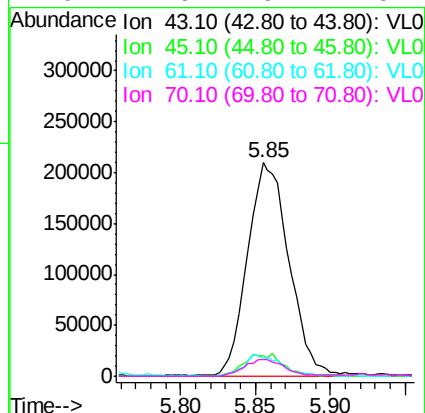
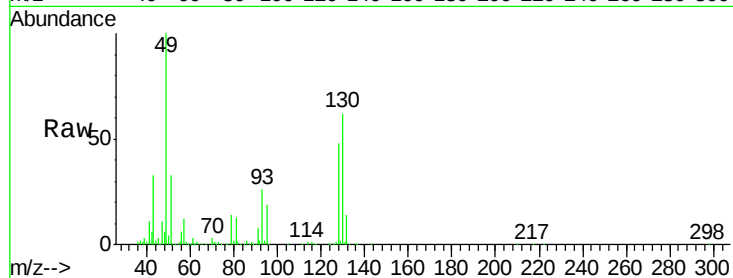
#25
Ethyl Acetate
Concen: 0.88 ppbv
RT: 5.85 min Scan# 1483
Delta R.T. -0.01 min
Lab File: VL032147.D
Acq: 29 Jun 2018 19:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
43	100		
45	10.3	7.8	11.8
61	9.2	7.4	11.0
70	7.6	6.1	9.1

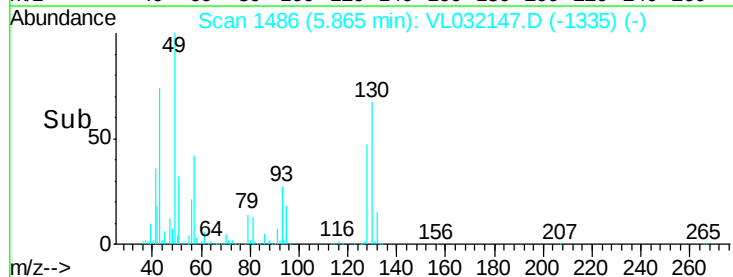
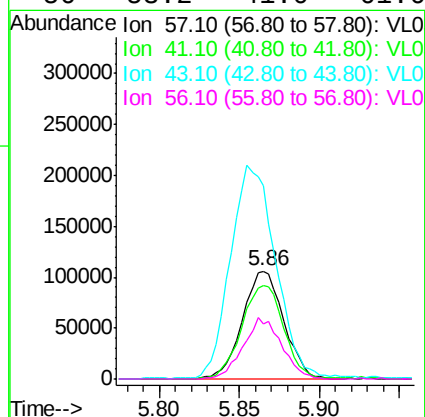
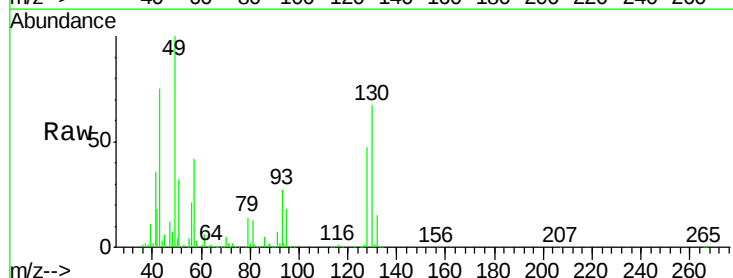
Manual Integrations
APPROVED

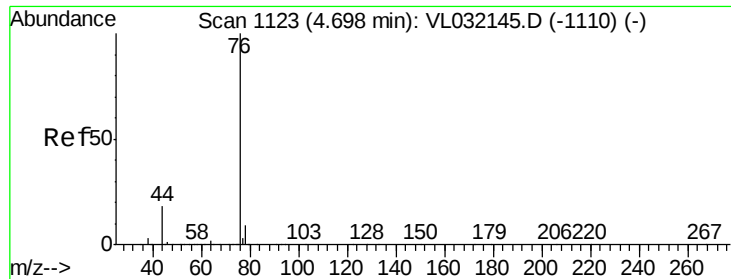
MMDadoda
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#26
Hexane
Concen: 0.93 ppbv
RT: 5.86 min Scan# 1486
Delta R.T. -0.01 min
Lab File: VL032147.D
Acq: 29 Jun 2018 19:22

Tgt Ion	Ratio	Lower	Upper
57	100		
41	87.3	68.6	103.0
43	222.4	168.6	252.8
56	53.2	41.0	61.6





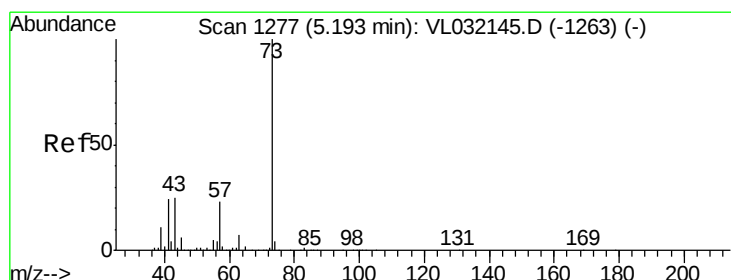
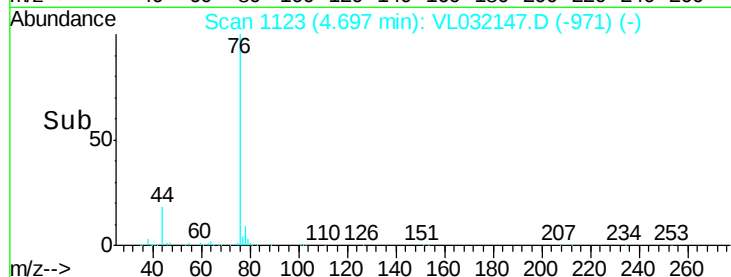
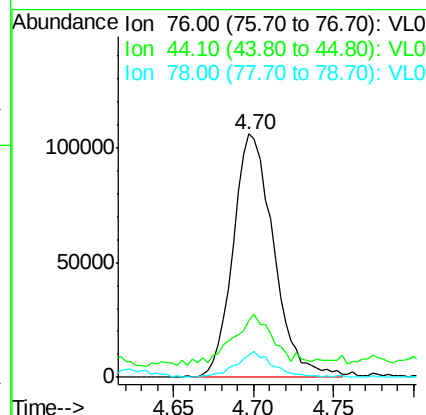
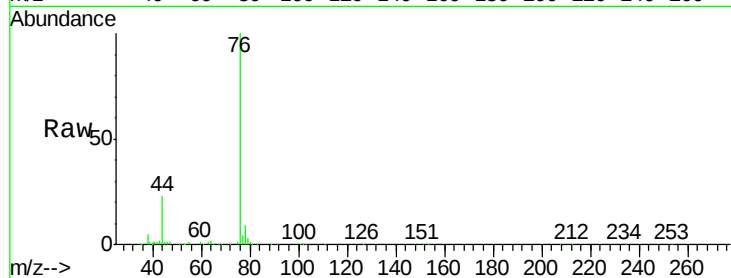
#27
Carbon Disulfide
Concen: 0.89 ppbv
RT: 4.70 min Scan# 1123
Delta R.T. -0.01 min
Lab File: VL032147.D
Acq: 29 Jun 2018 19:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
76	100		
44	24.4	15.1	22.7#
78	10.1	7.2	10.8

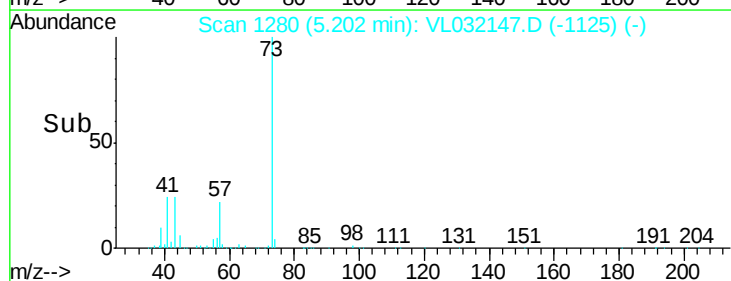
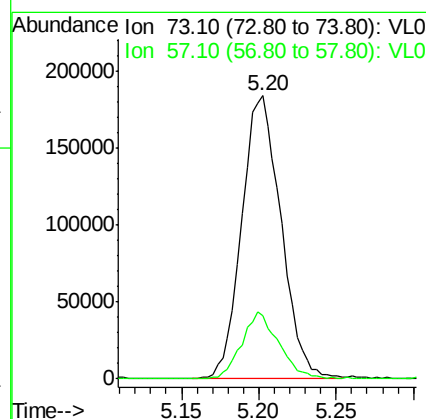
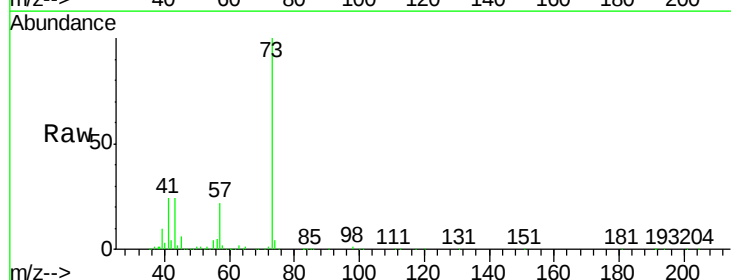
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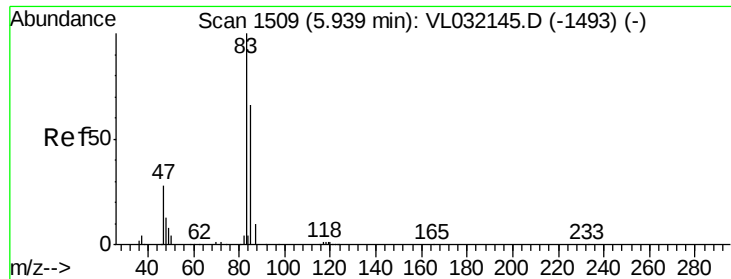
MMDadoda
7/2/2018 4:24:55 PM



#28
Methyl tert-Butyl Ether
Concen: 1.27 ppbv
RT: 5.20 min Scan# 1280
Delta R.T. -0.00 min
Lab File: VL032147.D
Acq: 29 Jun 2018 19:22

Tgt Ion	Ratio	Lower	Upper
73	100		
57	22.5	18.6	27.8





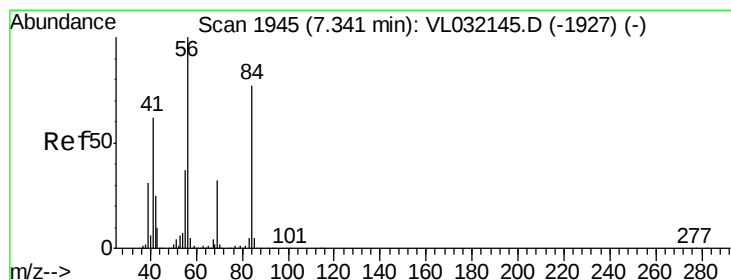
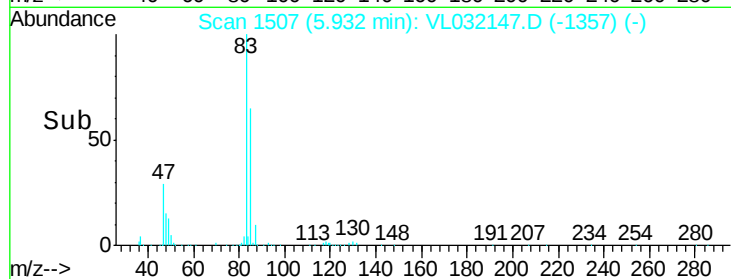
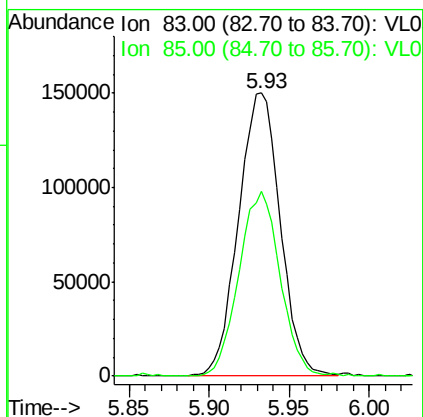
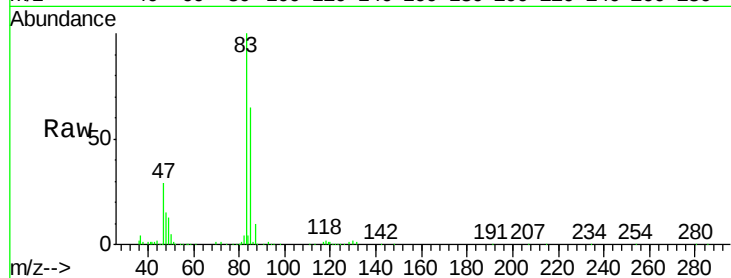
#29
Chloroform
Concen: 1.00 ppbv
RT: 5.93 min Scan# 1507
Delta R.T. -0.02 min
Lab File: VL032147.D
Acq: 29 Jun 2018 19:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	83	Resp	267483
Ion Ratio	Lower	Upper	
83	100		
85	65.0	51.6	77.4

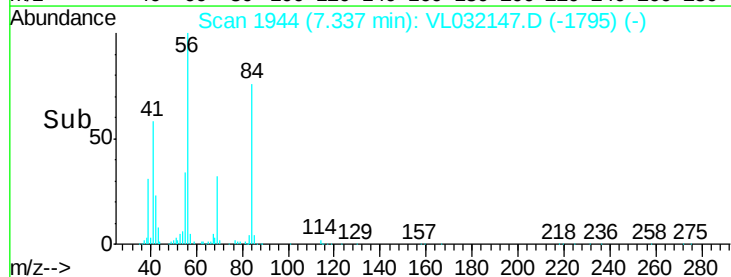
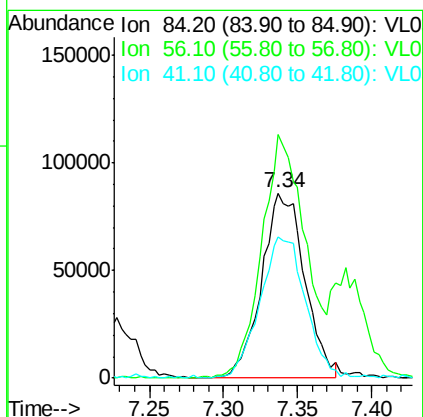
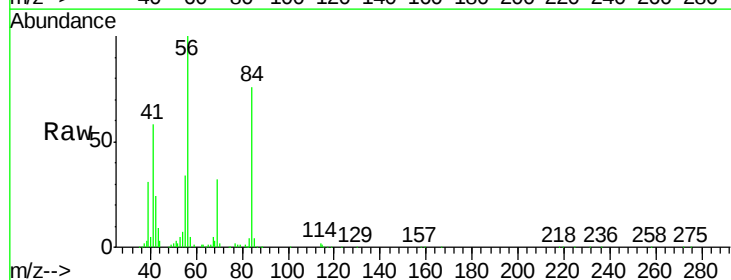
Manual Integrations
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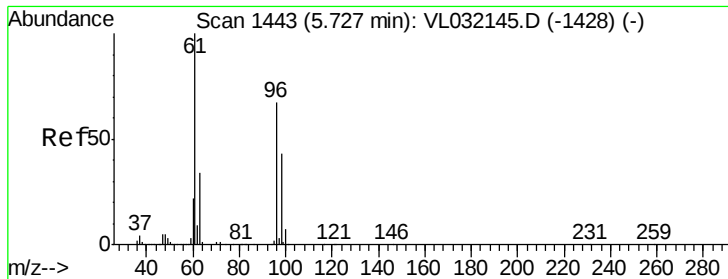
MMDadoda
7/2/2018 4:24:55 PM



#30
Cyclohexane
Concen: 1.04 ppbv m
RT: 7.34 min Scan# 1944
Delta R.T. -0.02 min
Lab File: VL032147.D
Acq: 29 Jun 2018 19:22

Tgt Ion	84	Resp	172790
Ion Ratio	Lower	Upper	
84	100		
56	133.6	109.1	163.7
41	80.2	64.6	96.8





#31

cis-1,2-Dichloroethene

Concen: 1.00 ppbv

RT: 5.72 min Scan# 1442

Delta R.T. -0.02 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

Instrument :

MSVOA_L

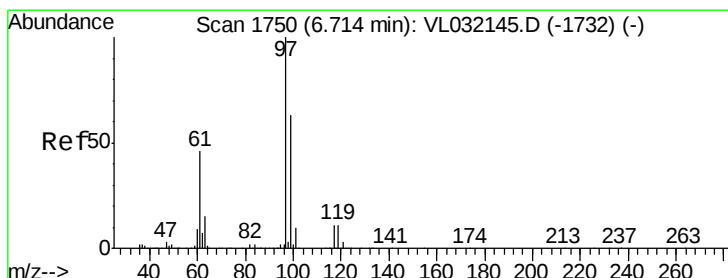
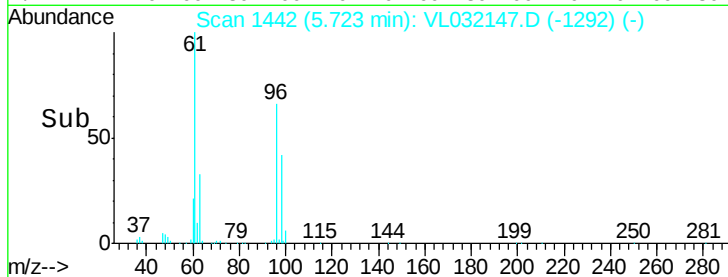
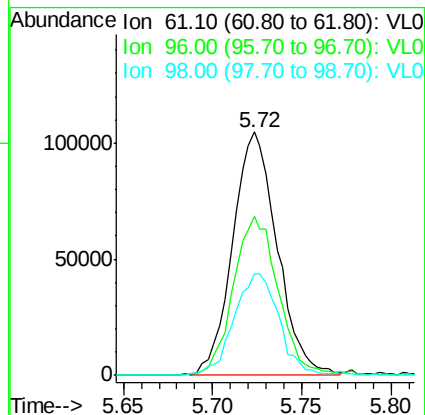
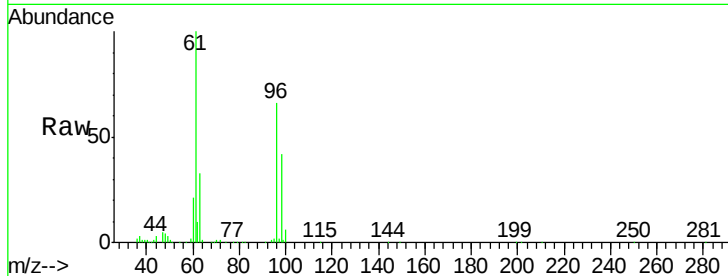
ClientSampleId :

VSTDIC001

Tot Ion:	61	Resp:	179750
Ion	Ratio	Lower	Upper
61	100		
96	65.1	54.2	81.4
98	41.4	34.6	52.0

Manual Integrations
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MMDadoda
7/2/2018 4:24:55 PM



#32

1,1,1-Trichloroethane

Concen: 1.02 ppbv

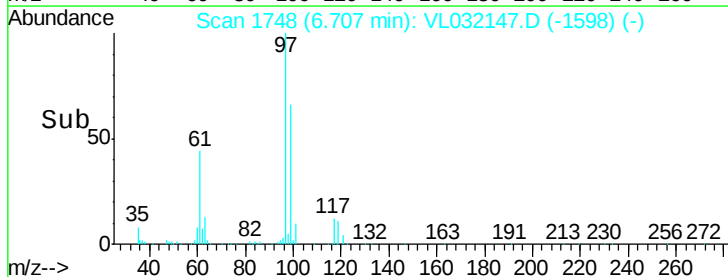
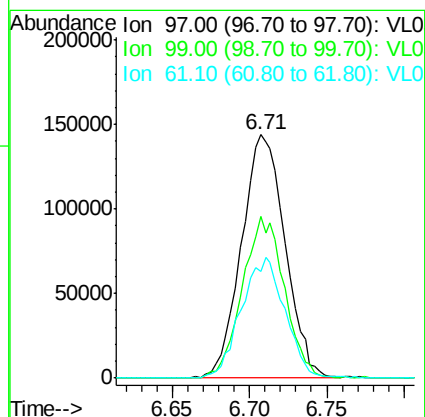
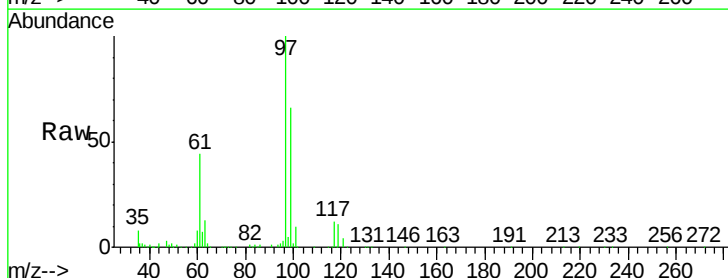
RT: 6.71 min Scan# 1748

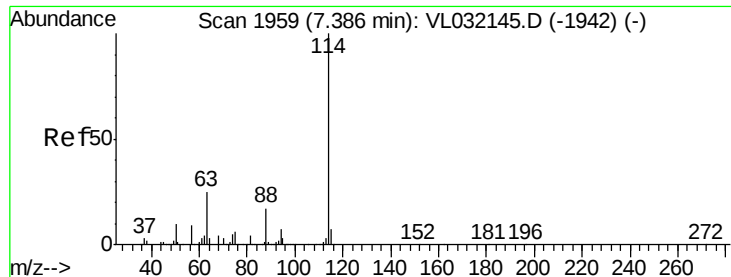
Delta R.T. -0.02 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

Tgt Ion:	97	Resp:	282941
Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.3	76.9
61	49.8	38.4	57.6





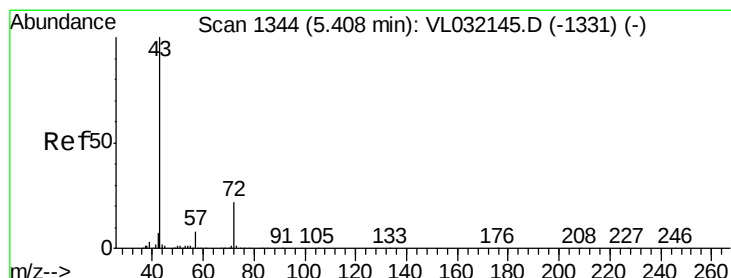
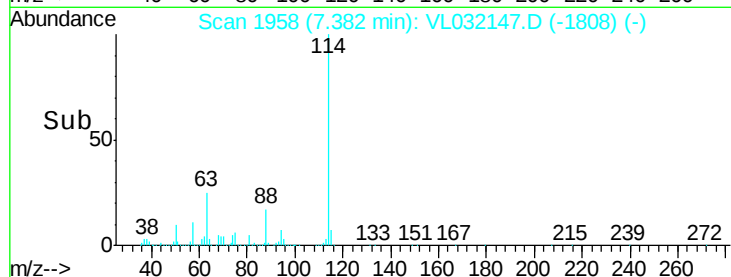
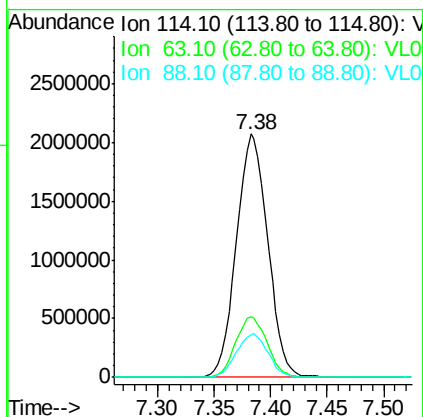
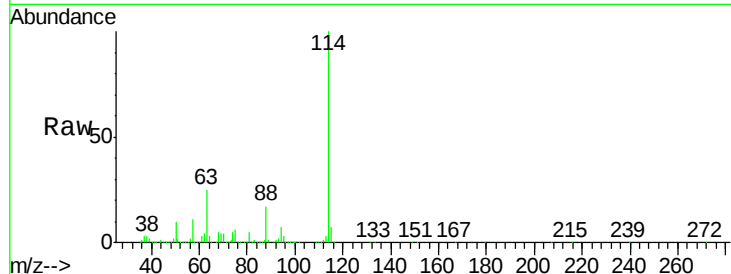
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.38 min Scan# 1958
 Delta R.T. -0.02 min
 Lab File: VL032147.D
 Acq: 29 Jun 2018 19:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.0	19.1	28.7
88	18.1	13.9	20.9

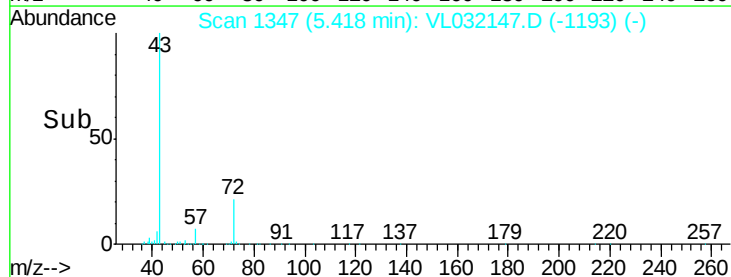
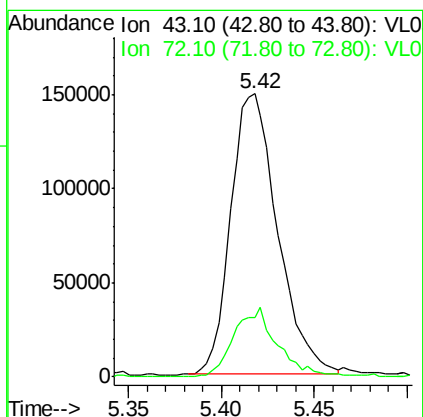
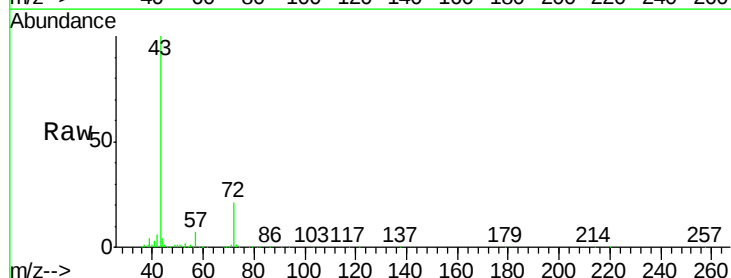
Manual Integrations
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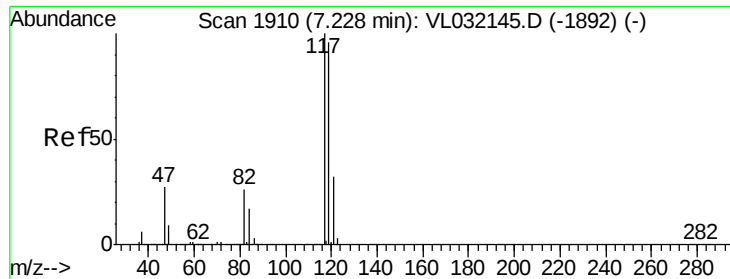
MMDadoda
 7/2/2018 4:24:55 PM



#34
 2-Butanone
 Concen: 0.81 ppbv
 RT: 5.42 min Scan# 1347
 Delta R.T. -0.00 min
 Lab File: VL032147.D
 Acq: 29 Jun 2018 19:22

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.2	18.4	27.6





#35

Carbon Tetrachloride

Concen: 1.05 ppbv

RT: 7.23 min Scan# 1910

Delta R.T. -0.01 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

Instrument :

MSVOA_L

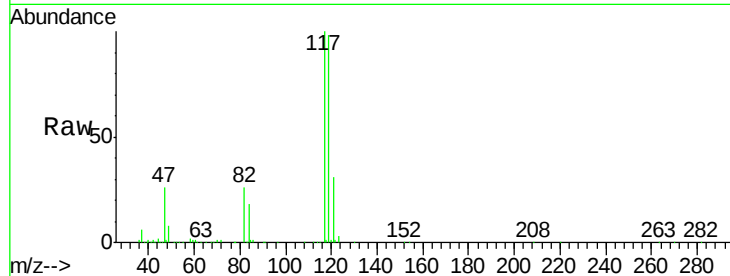
ClientSampleId :

VSTDIC001

Tot Ion:	117	Resp:	291741
Ion Ratio	Lower	Upper	
117	100		
119	98.3	74.8	112.2
121	31.1	24.0	36.0

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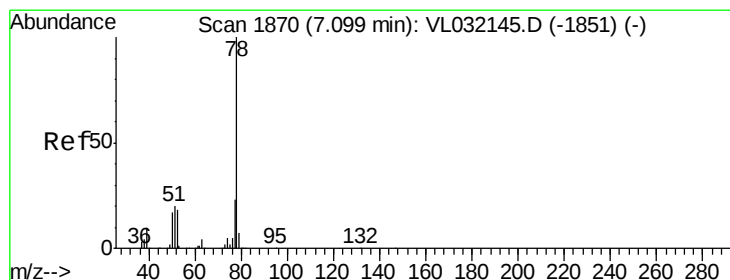
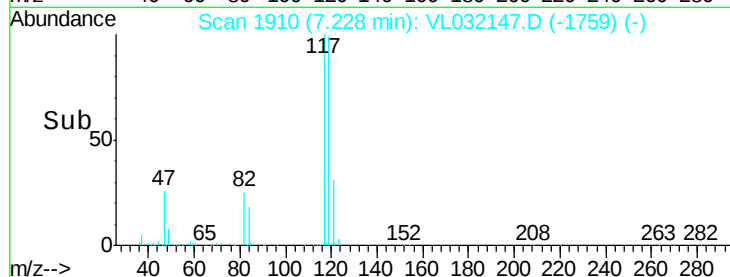
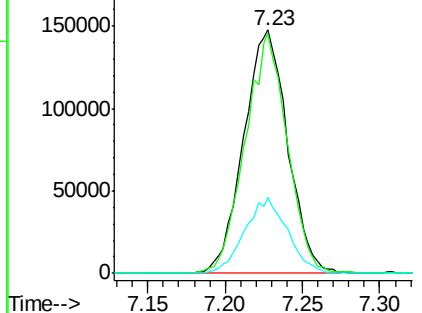
MMDadoda
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 1.01 ppbv

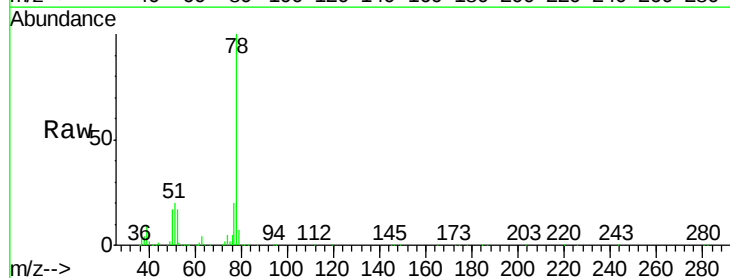
RT: 7.10 min Scan# 1870

Delta R.T. -0.01 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

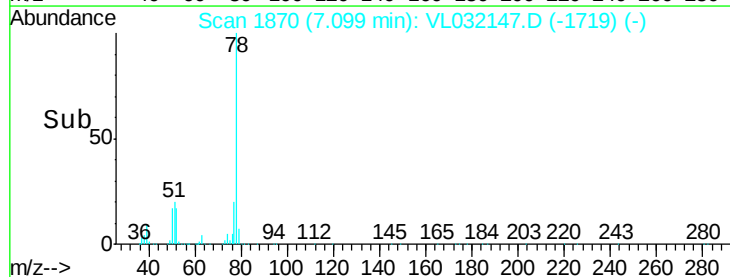
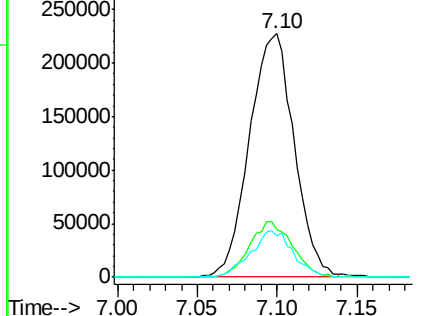
Tgt Ion:	78	Resp:	436962
Ion Ratio	Lower	Upper	
78	100		
77	19.8	17.7	26.5
50	16.9	14.0	21.0

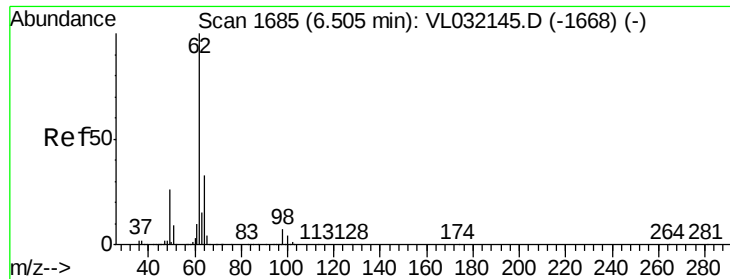


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





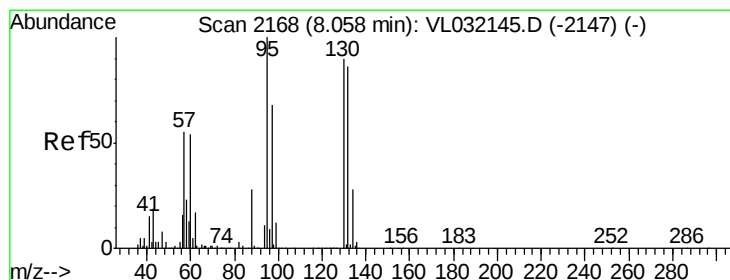
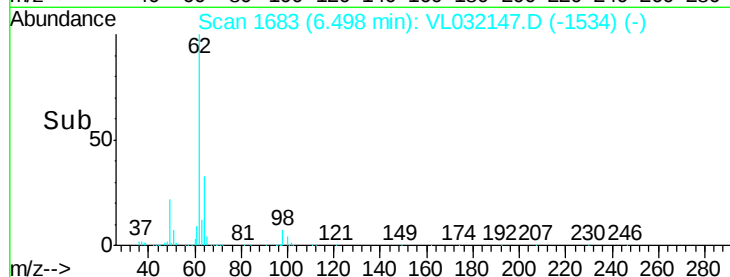
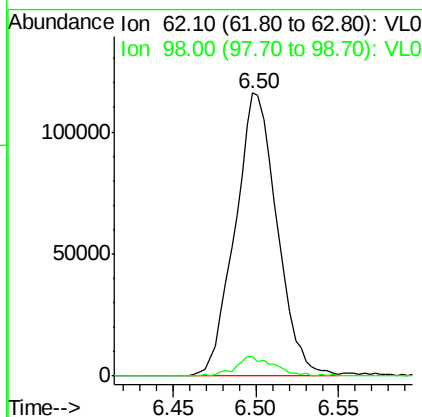
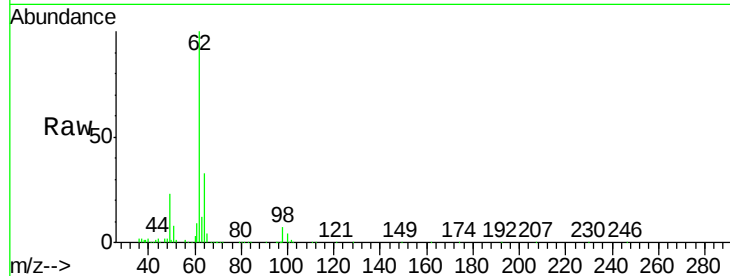
#37
 1,2-Dichloroethane
 Concen: 0.91 ppbv
 RT: 6.50 min Scan# 1683
 Delta R.T. -0.02 min
 Lab File: VL032147.D
 Acq: 29 Jun 2018 19:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp Lower	Upper
62	100		
98	6.6	5.8	8.6

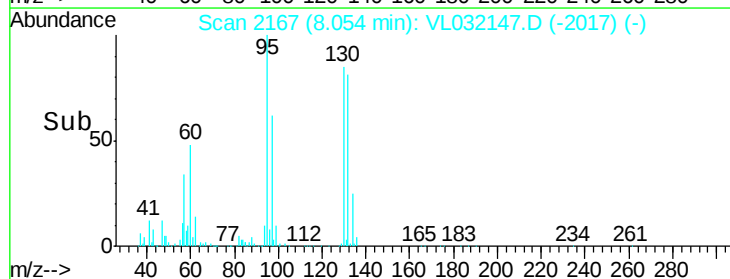
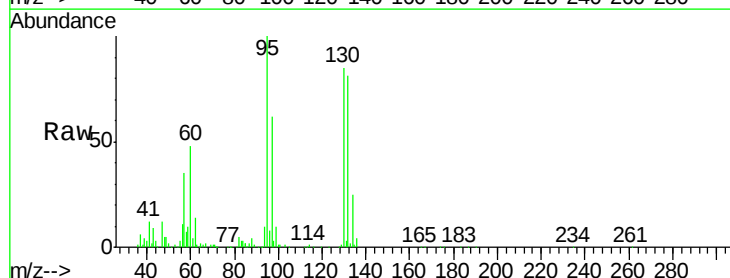
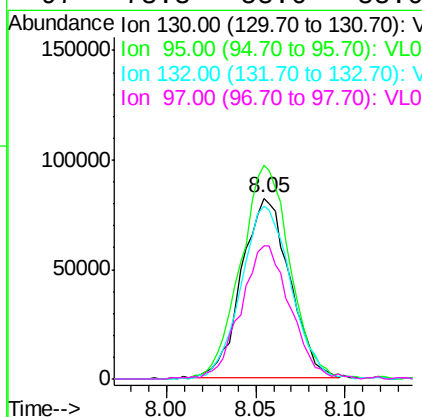
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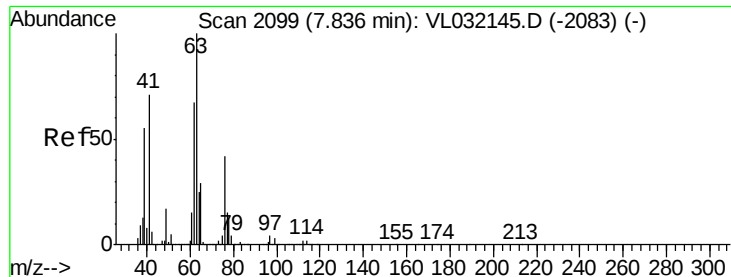
MMDadoda
 7/2/2018 4:24:55 PM



#38
 Trichloroethene
 Concen: 0.92 ppbv
 RT: 8.05 min Scan# 2167
 Delta R.T. -0.02 min
 Lab File: VL032147.D
 Acq: 29 Jun 2018 19:22

Tgt Ion	Ratio	Resp Lower	Upper
130	100		
95	118.6	88.1	132.1
132	96.4	74.6	112.0
97	73.3	58.6	88.0





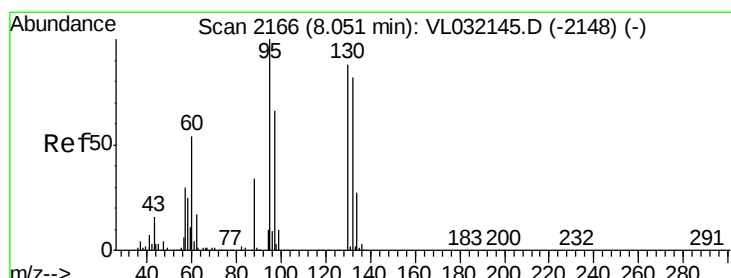
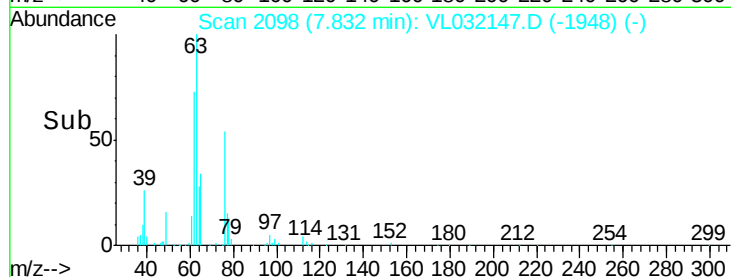
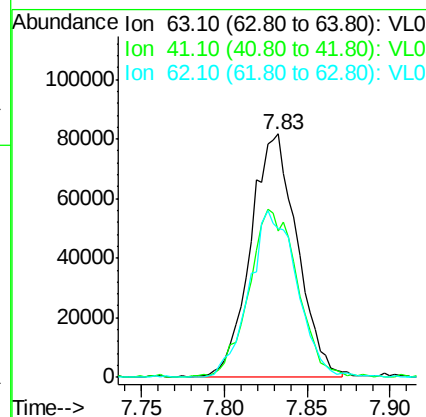
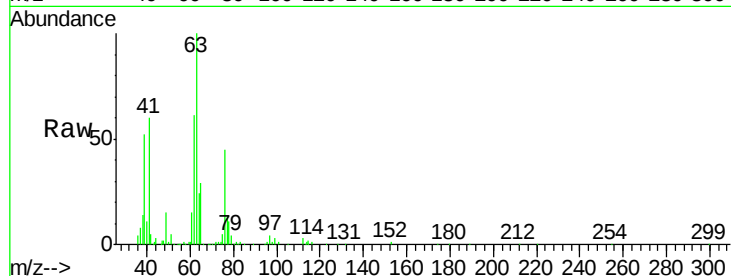
#39
 1,2-Dichloropropane
 Concen: 1.00 ppbv
 RT: 7.83 min Scan# 2098
 Delta R.T. -0.02 min
 Lab File: VL032147.D
 Acq: 29 Jun 2018 19:22

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
63	100		
41	59.2	53.3	79.9
62	61.0	54.8	82.2

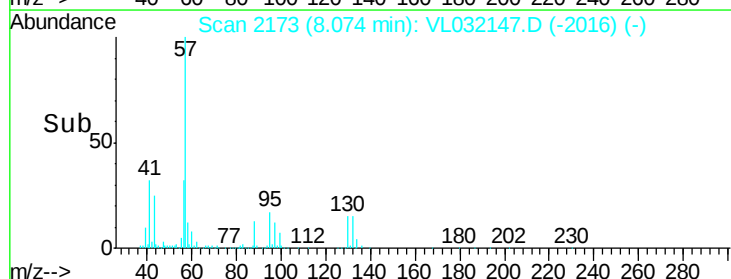
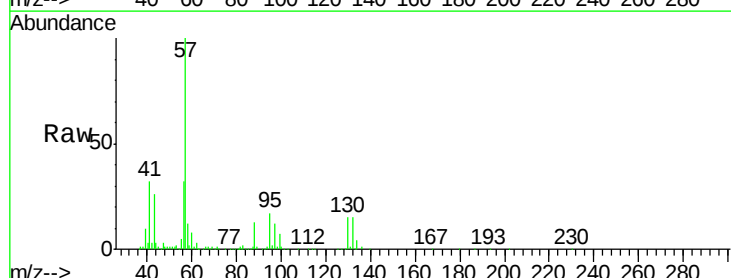
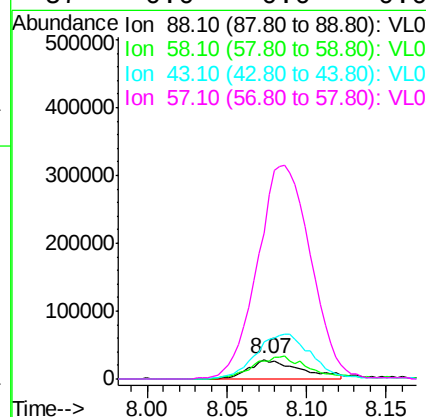
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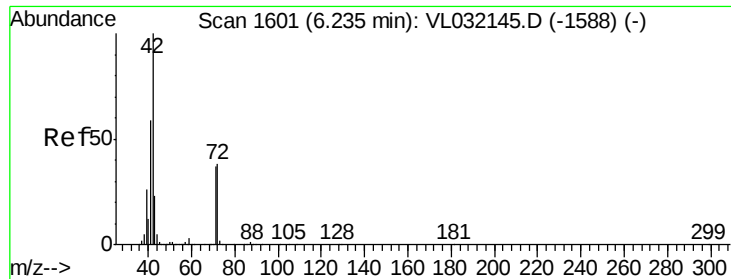
MMDadoda
 7/2/2018 4:24:55 PM



#40
 1,4-Dioxane
 Concen: 0.86 ppbv m
 RT: 8.07 min Scan# 2173
 Delta R.T. 0.01 min
 Lab File: VL032147.D
 Acq: 29 Jun 2018 19:22

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





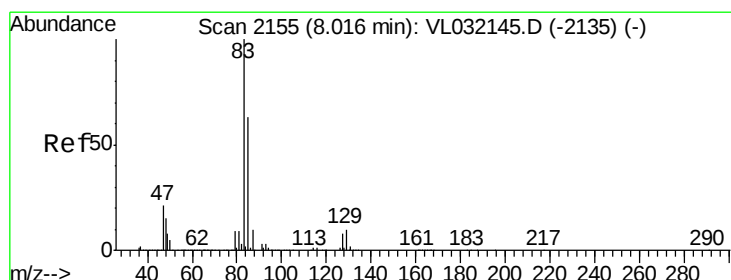
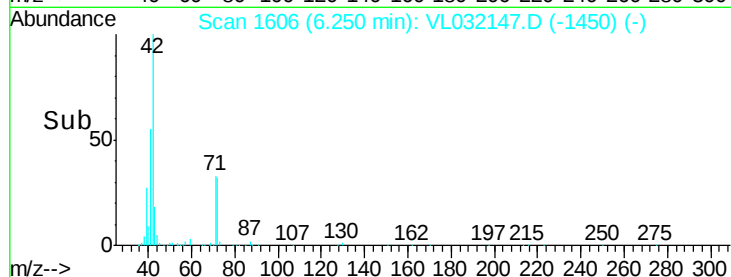
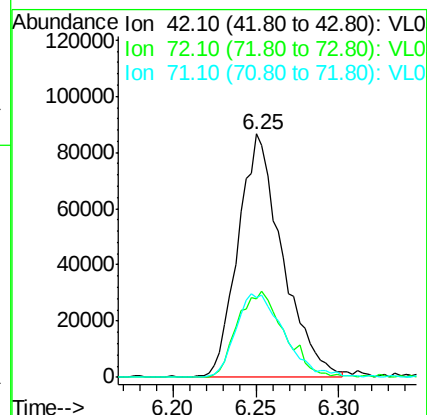
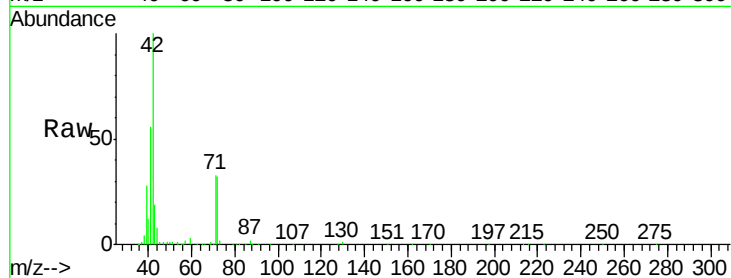
#41
Tetrahydrofuran
Concen: 0.82 ppbv
RT: 6.25 min Scan# 1606
Delta R.T. 0.00 min
Lab File: VL032147.D
Acq: 29 Jun 2018 19:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.1	31.1	46.7
71	38.2	29.5	44.3

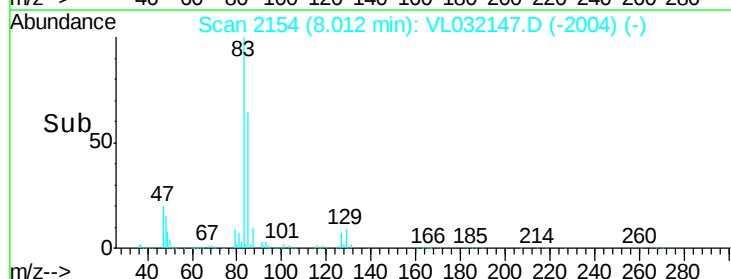
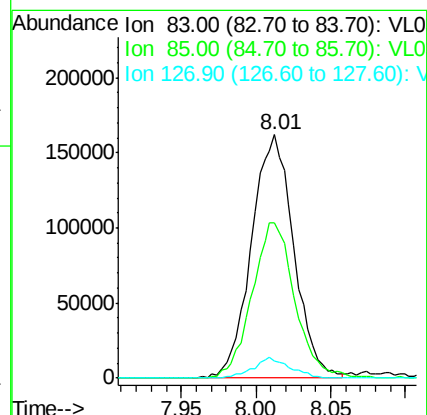
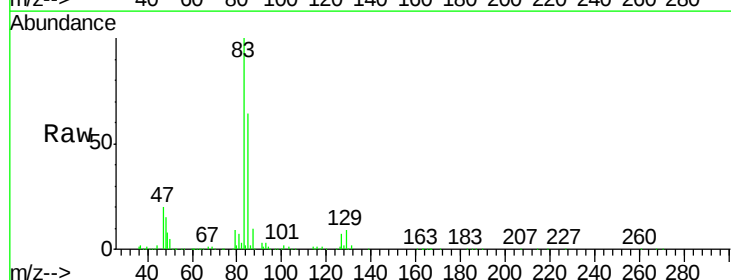
Manual Integrations
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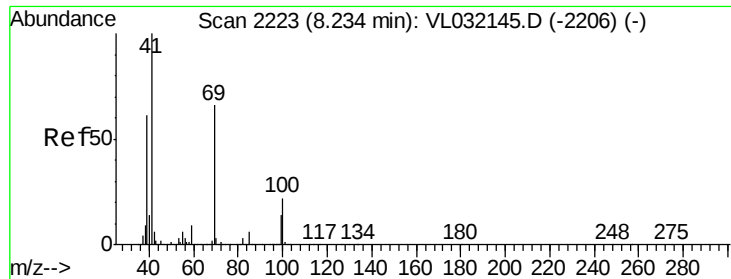
MMDadoda
7/2/2018 4:24:55 PM



#42
Bromodichloromethane
Concen: 1.05 ppbv
RT: 8.01 min Scan# 2154
Delta R.T. -0.02 min
Lab File: VL032147.D
Acq: 29 Jun 2018 19:22

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.0	52.6	79.0
127	6.8	6.5	9.7





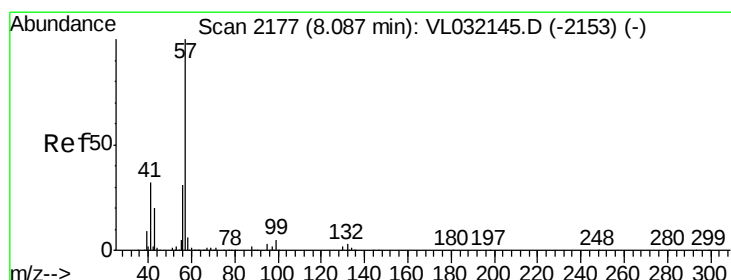
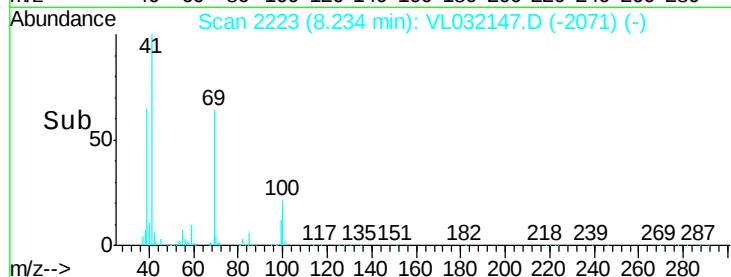
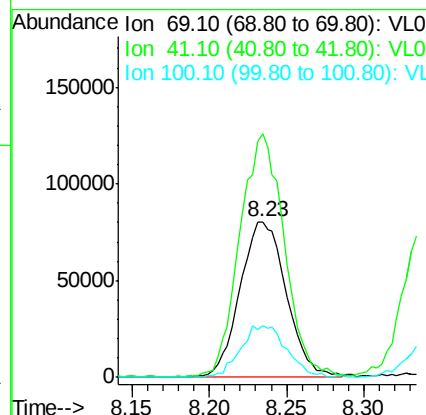
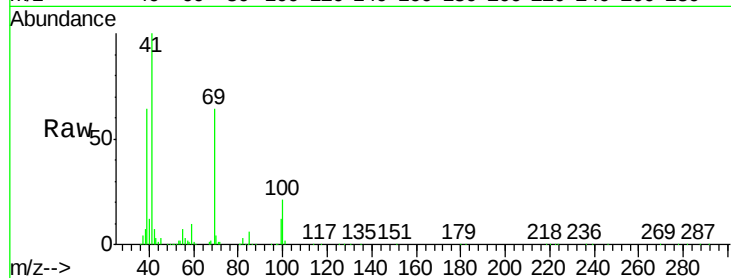
#43
Methvl Methacrylate
Concen: 0.98 ppbv
RT: 8.23 min Scan# 2223
Delta R.T. -0.01 min
Lab File: VL032147.D
Acq: 29 Jun 2018 19:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
69	100		
41	150.0	118.2	177.4
100	33.1	27.4	41.2

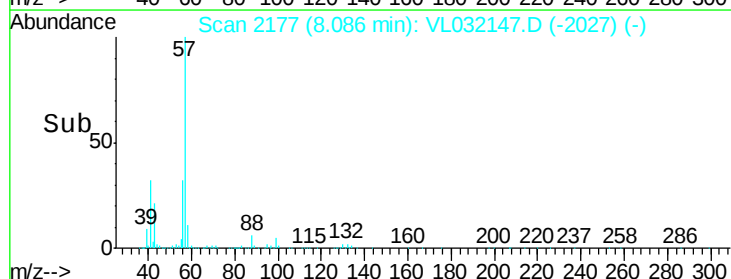
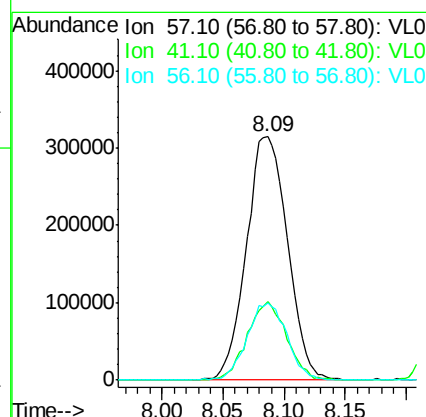
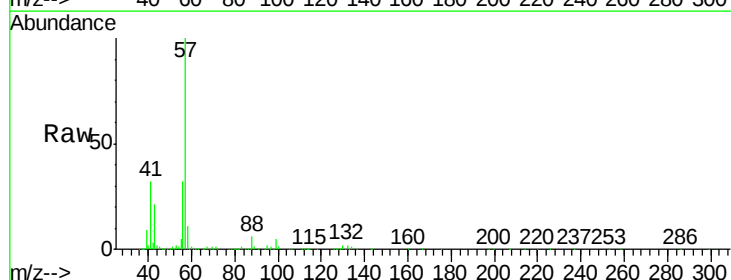
Manual Integrations
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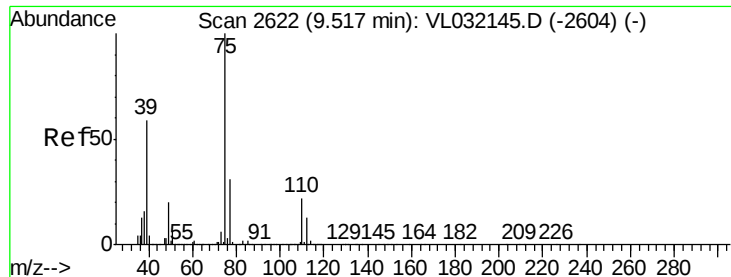
MMDadoda
7/2/2018 4:24:55 PM



#44
2,2,4-Trimethylpentane
Concen: 1.03 ppbv
RT: 8.09 min Scan# 2177
Delta R.T. -0.02 min
Lab File: VL032147.D
Acq: 29 Jun 2018 19:22

Tgt Ion	Ratio	Lower	Upper
57	100		
41	30.9	24.3	36.5
56	30.7	25.1	37.7





#45

t-1,3-Dichloropropene

Concen: 0.95 ppbv

RT: 9.51 min Scan# 2620

Delta R.T. -0.02 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 75 Resp: 201371

Ion Ratio Lower Upper

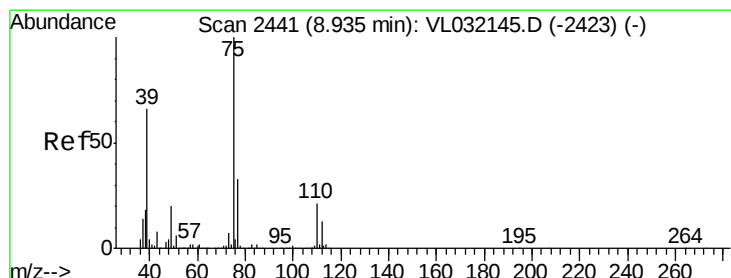
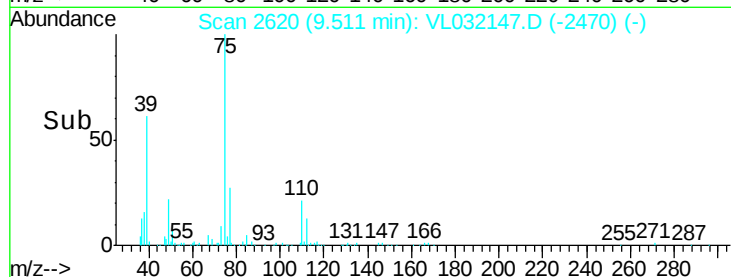
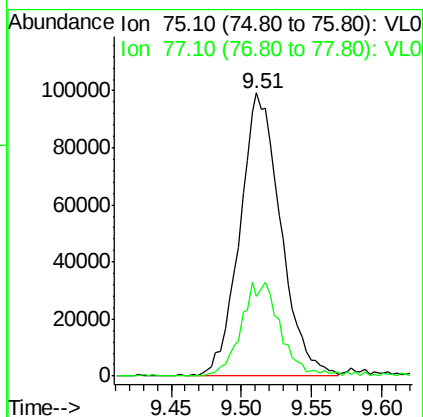
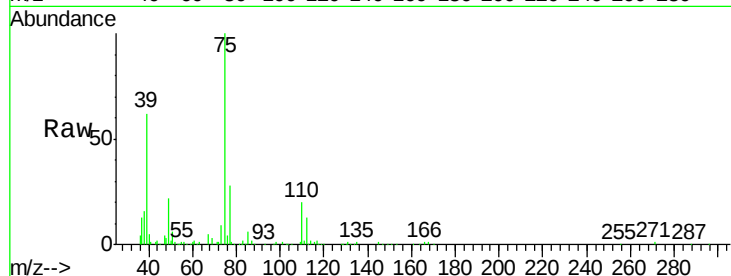
75 100

77 28.1 25.6 38.4

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#46

cis-1,3-Dichloropropene

Concen: 0.90 ppbv

RT: 8.93 min Scan# 2439

Delta R.T. -0.02 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

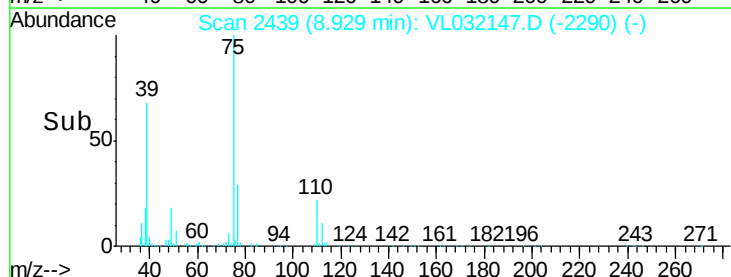
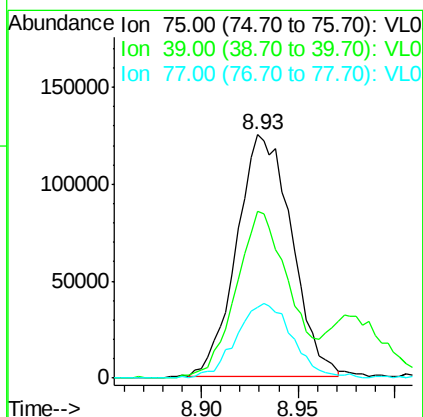
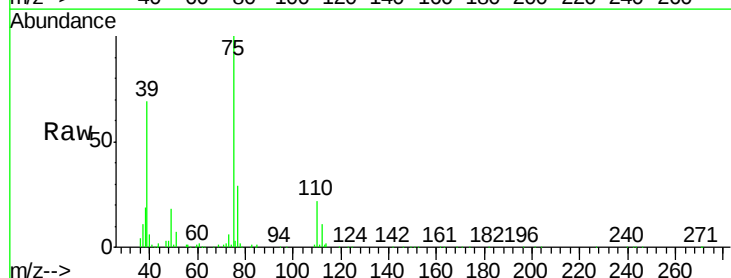
Tgt Ion: 75 Resp: 245681

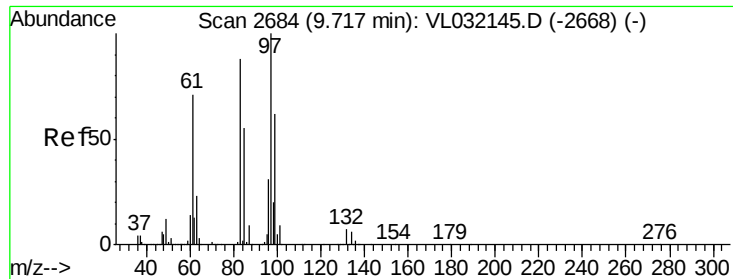
Ion Ratio Lower Upper

75 100

39 68.0 51.9 77.9

77 29.3 24.3 36.5





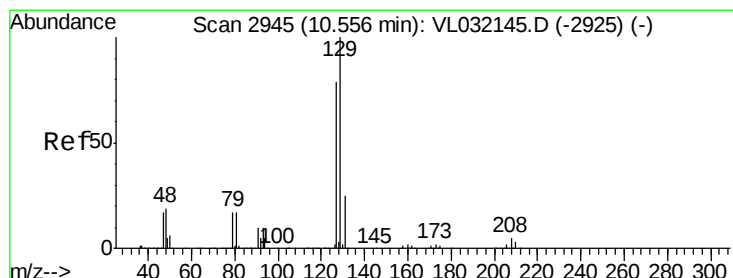
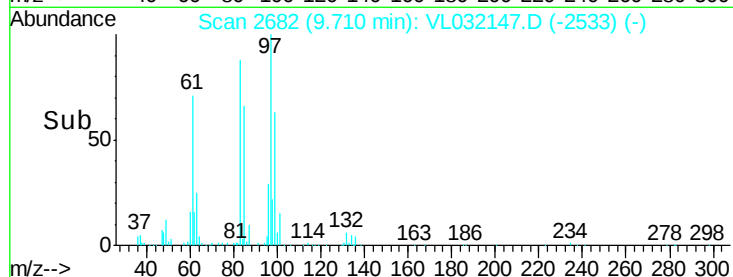
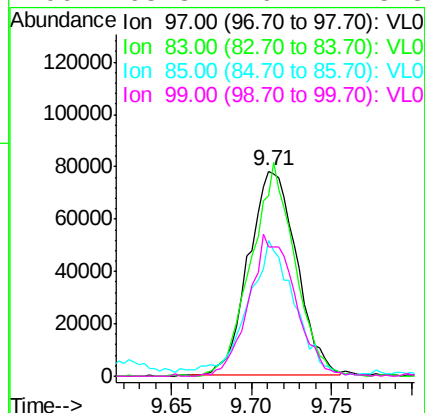
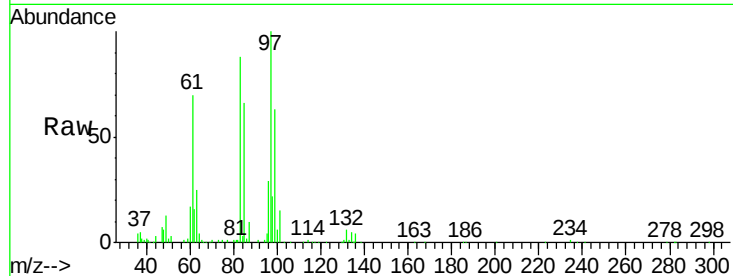
#47
 1,1,2-Trichloroethane
 Concen: 0.89 ppbv
 RT: 9.71 min Scan# 2682
 Delta R.T. -0.02 min
 Lab File: VL032147.D
 Acq: 29 Jun 2018 19:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	87.5	71.0	106.4	
85	64.4	44.2	66.4	
99	63.3	49.2	73.8	

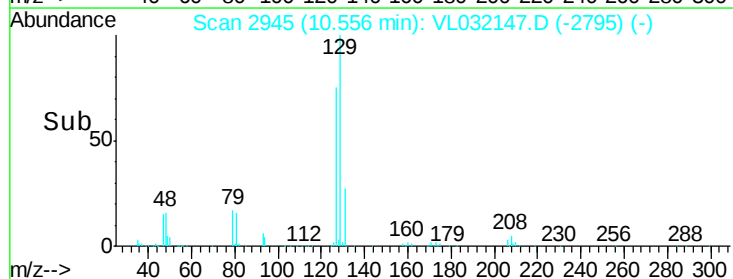
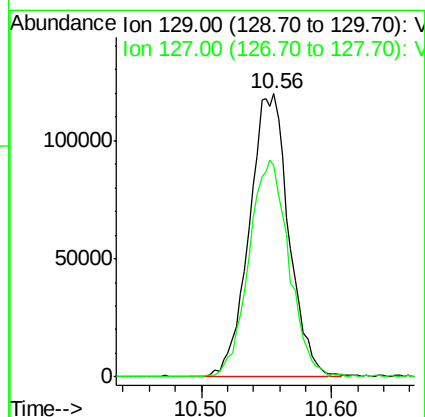
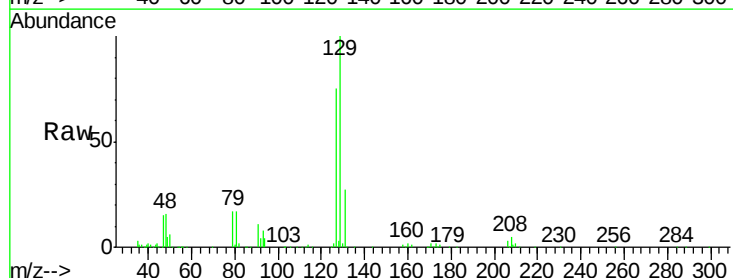
Manual Integrations
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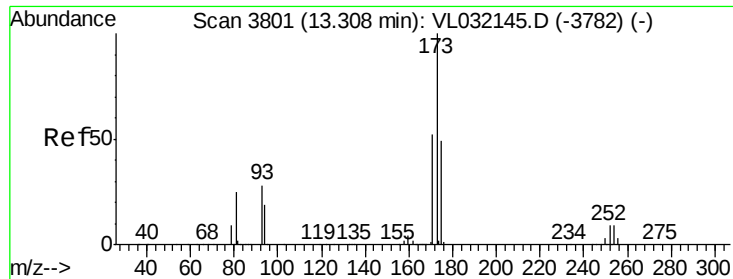
MMDadoda
 7/2/2018 4:24:55 PM



#48
 Dibromochloromethane
 Concen: 0.93 ppbv m
 RT: 10.56 min Scan# 2945
 Delta R.T. -0.02 min
 Lab File: VL032147.D
 Acq: 29 Jun 2018 19:22

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	0.0	39.1	117.5	#





#49

Bromoform

Concen: 1.06 ppbv

RT: 13.30 min Scan# 3800

Delta R.T. -0.02 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

Instrument :

MSVOA_L

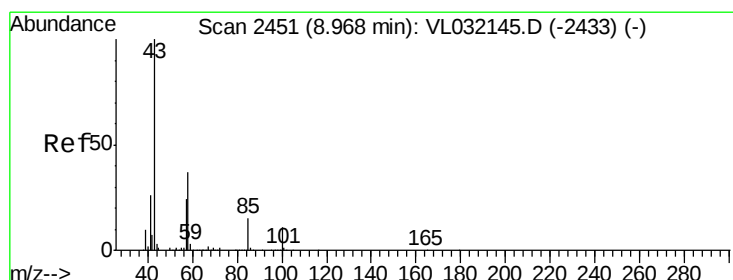
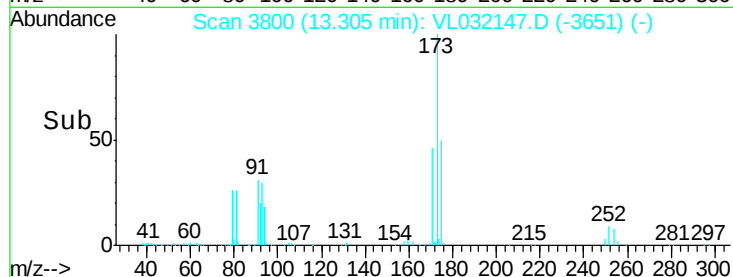
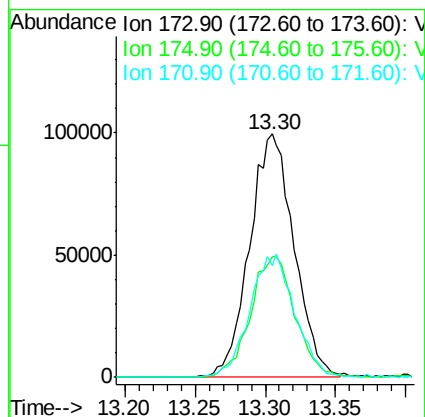
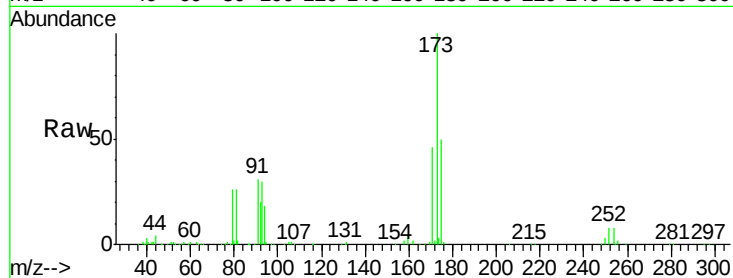
ClientSampleId :

VSTDIC001

Tot Ion:	173	Resp:	219292
Ion Ratio	Lower	Upper	
173	100		
175	49.9	39.4	59.0
171	51.5	41.8	62.8

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7/2/2018 4:24:55 PM



#50

4-Methyl-2-Pentanone

Concen: 0.89 ppbv

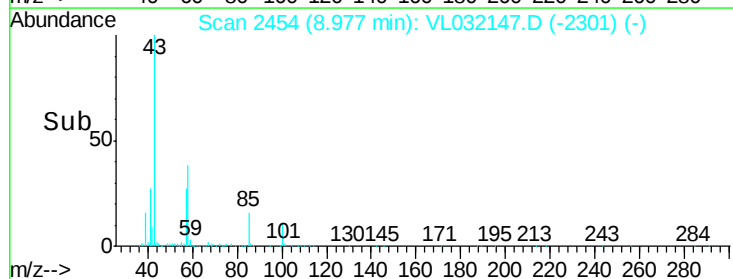
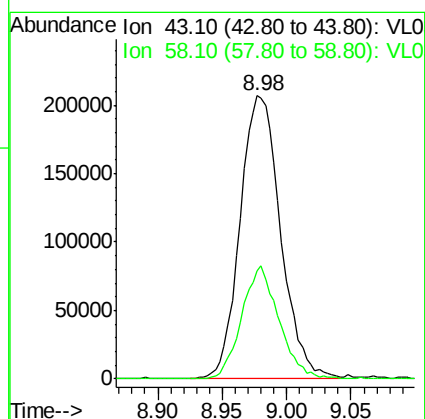
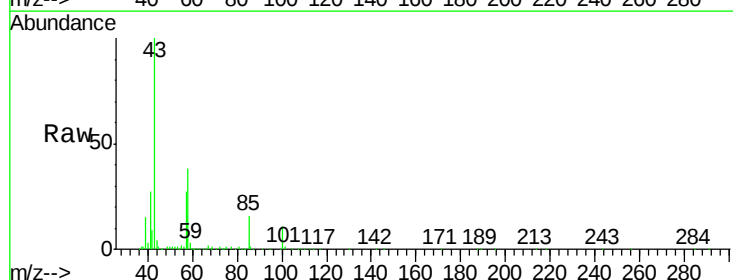
RT: 8.98 min Scan# 2454

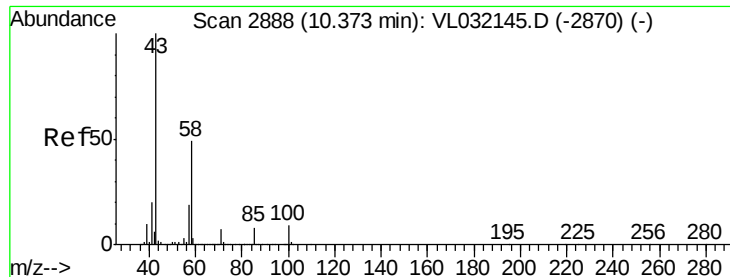
Delta R.T. -0.01 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

Tgt Ion:	43	Resp:	450669
Ion Ratio	Lower	Upper	
43	100		
58	36.9	29.8	44.6





#51

2-Hexanone

Concen: 0.73 ppbv

RT: 10.39 min Scan# 2892

Delta R.T. -0.00 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

Instrument :

MSVOA_L

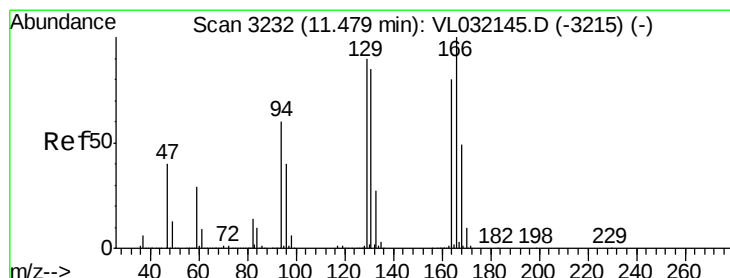
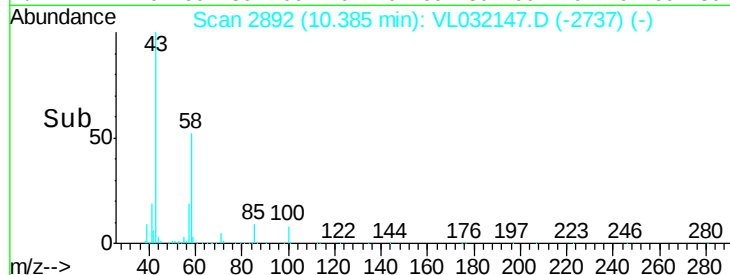
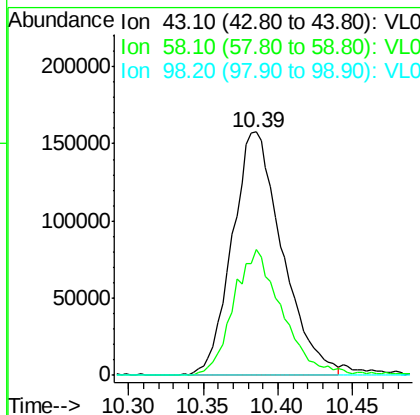
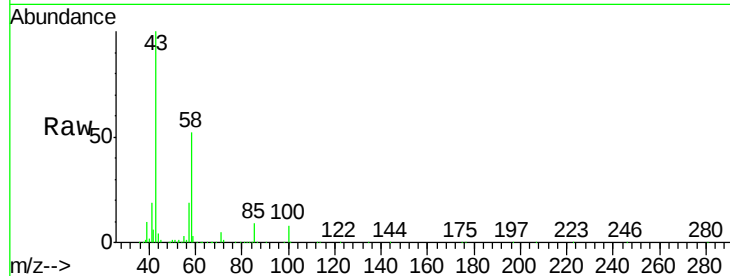
ClientSampleId :

VSTDIC001

Tot Ion:	43	Resp:	364532
Ion Ratio	Lower	Upper	
43	100		
58	51.3	40.6	60.8
98	0.0	0.1	0.1#

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#52

Tetrachloroethene

Concen: 0.90 ppbv

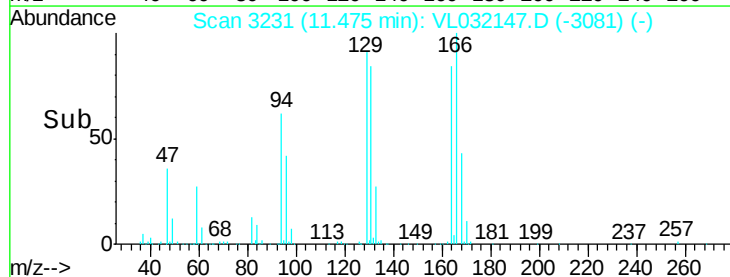
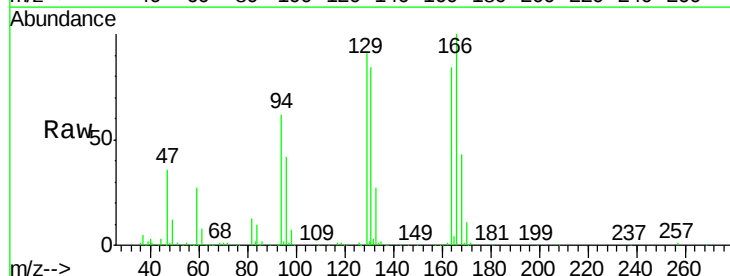
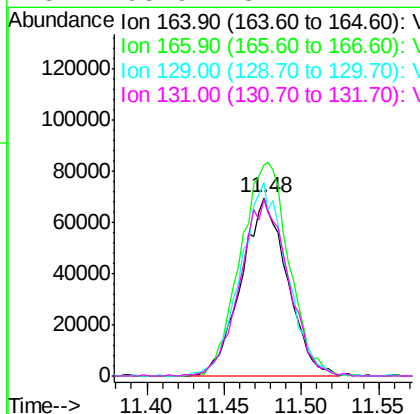
RT: 11.48 min Scan# 3231

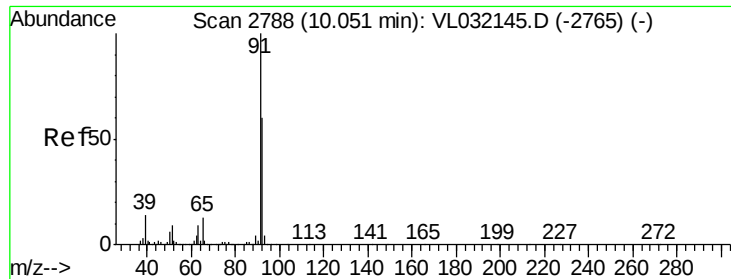
Delta R.T. -0.02 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

Tgt Ion:	164	Resp:	143842
Ion Ratio	Lower	Upper	
164	100		
166	118.0	100.6	151.0
129	107.6	84.0	126.0
131	98.9	82.7	124.1





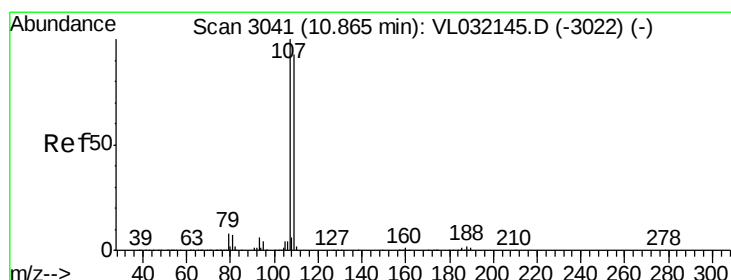
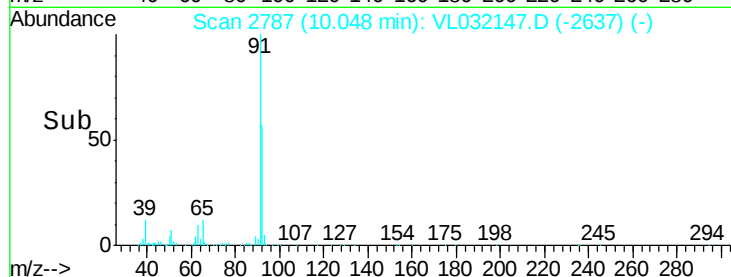
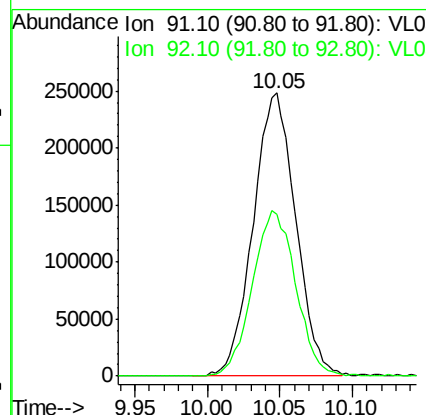
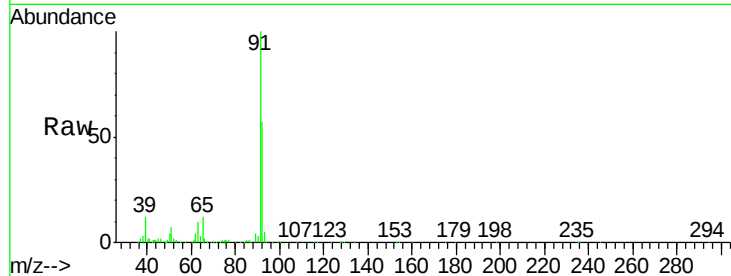
#53
Toluene
Concen: 0.97 ppbv
RT: 10.05 min Scan# 2787
Delta R.T. -0.02 min
Lab File: VL032147.D
Acq: 29 Jun 2018 19:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ion	Ratio	Lower	Upper
91	100			
92	59.7	49.2	73.8	

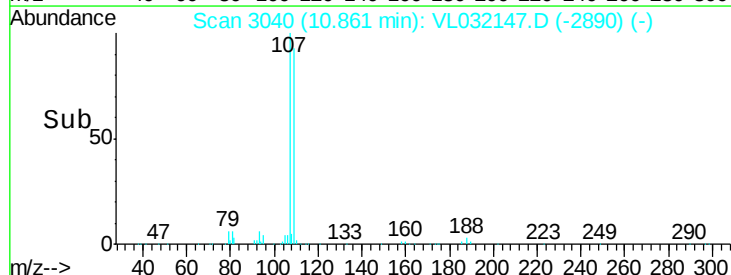
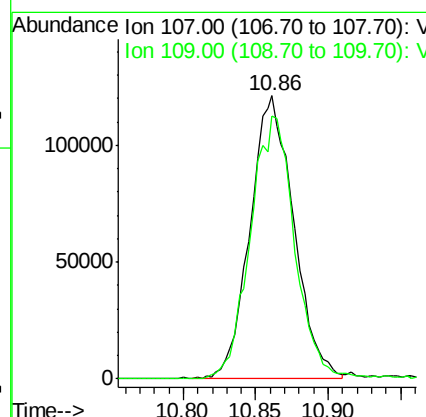
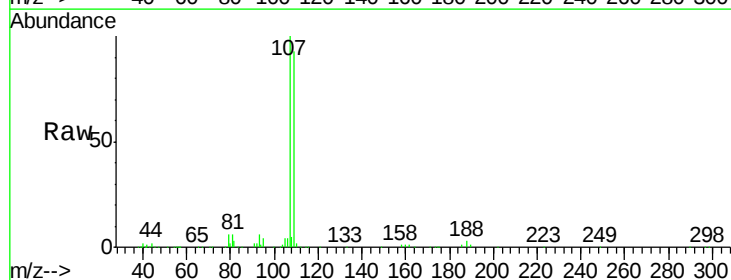
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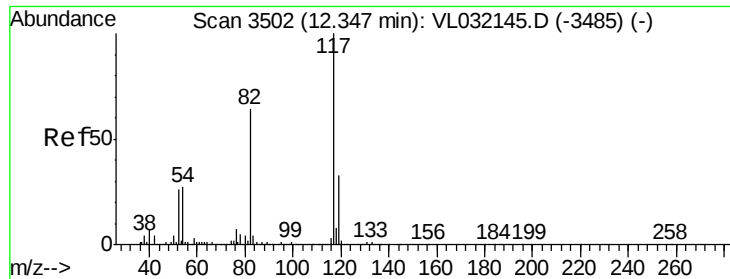
MMDadoda
7/2/2018 4:24:55 PM



#54
1,2-Dibromoethane
Concen: 0.95 ppbv
RT: 10.86 min Scan# 3040
Delta R.T. -0.02 min
Lab File: VL032147.D
Acq: 29 Jun 2018 19:22

Tgt Ion	Ion	Ratio	Lower	Upper
107	100			
109	93.0	75.0	112.4	





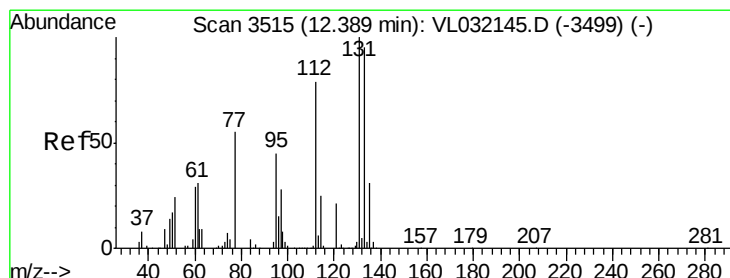
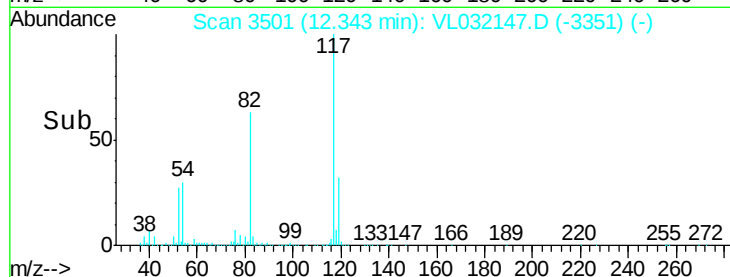
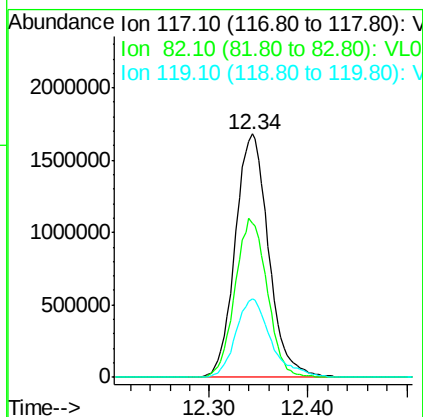
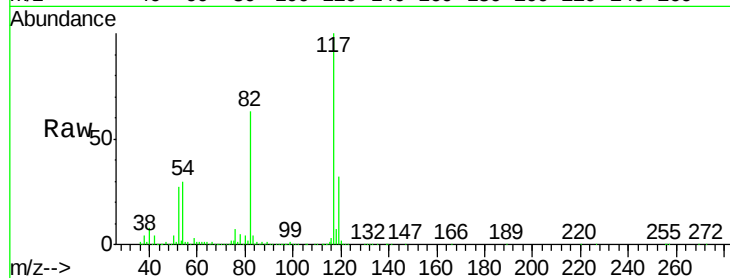
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.34 min Scan# 3501
Delta R.T. -0.02 min
Lab File: VL032147.D
Acq: 29 Jun 2018 19:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
117	100		
82	63.1	47.8	71.8
119	34.3	43.3	64.9#

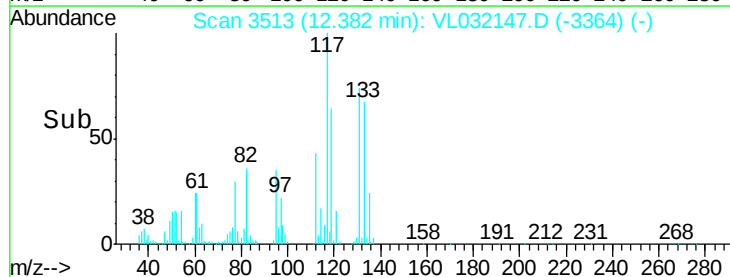
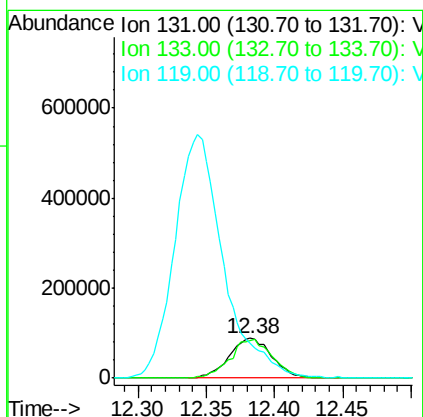
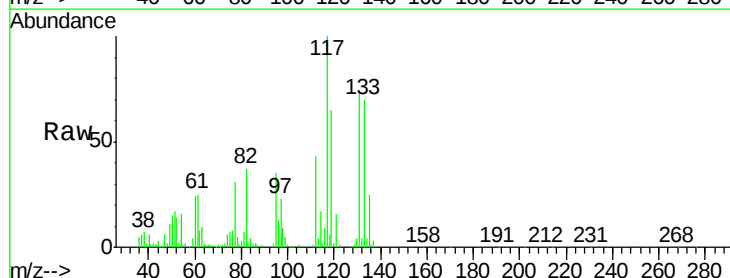
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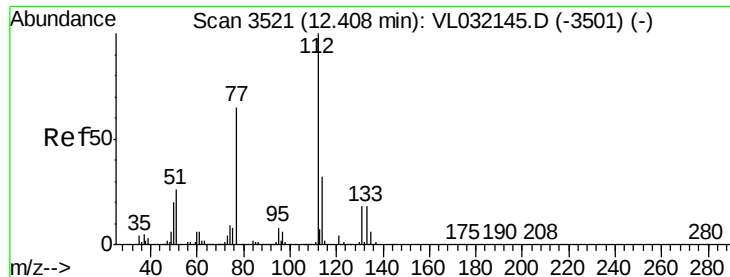
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 1.09 ppbv
RT: 12.38 min Scan# 3513
Delta R.T. -0.02 min
Lab File: VL032147.D
Acq: 29 Jun 2018 19:22

Tgt Ion	Ratio	Lower	Upper
131	100		
133	97.6	75.5	113.3
119	705.4	118.4	177.6#





#57

Chlorobenzene

Concen: 1.02 ppbv

RT: 12.40 min Scan# 3520

Delta R.T. -0.02 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

Instrument :

MSVOA_L

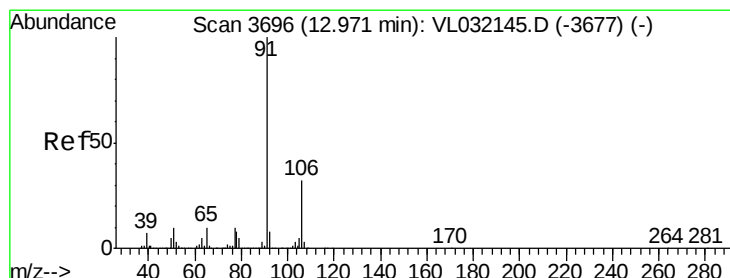
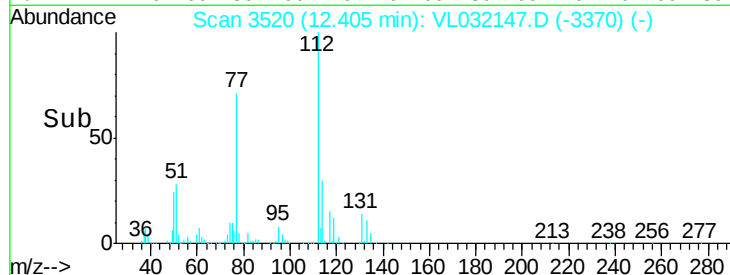
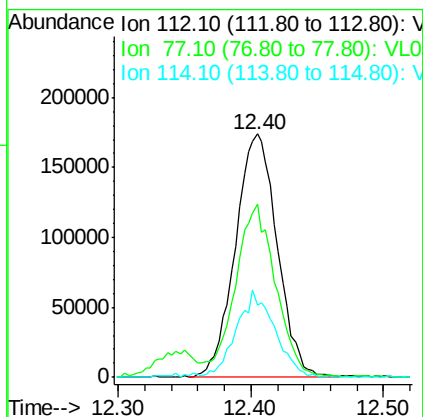
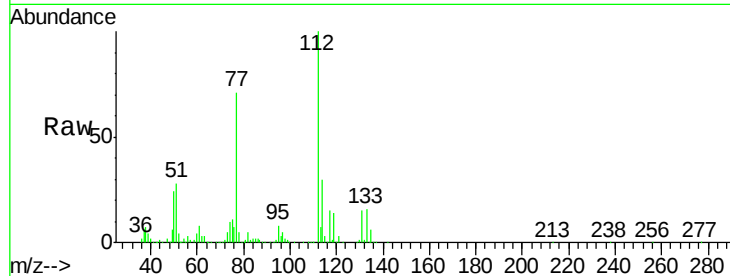
ClientSampleId :

VSTDIC001

Tot Ion:	112	Resp:	380104
Ion Ratio		Lower	Upper
112	100		
77	70.4	52.6	78.8
114	29.6	27.9	34.1

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#58

Ethyl Benzene

Concen: 1.03 ppbv

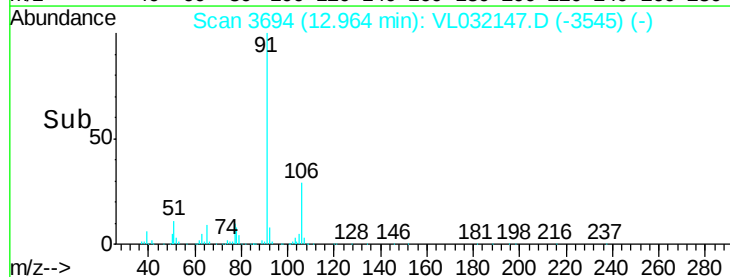
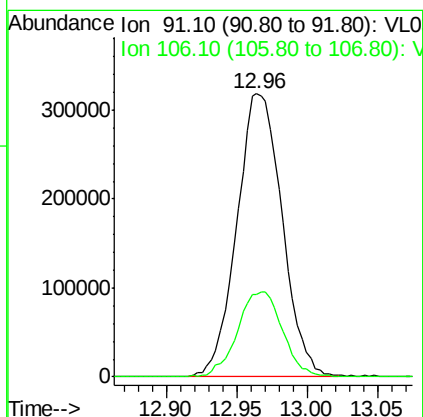
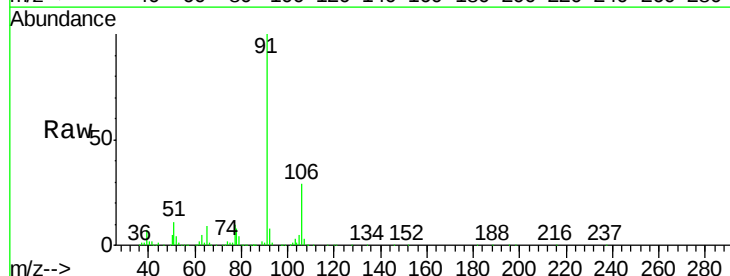
RT: 12.96 min Scan# 3694

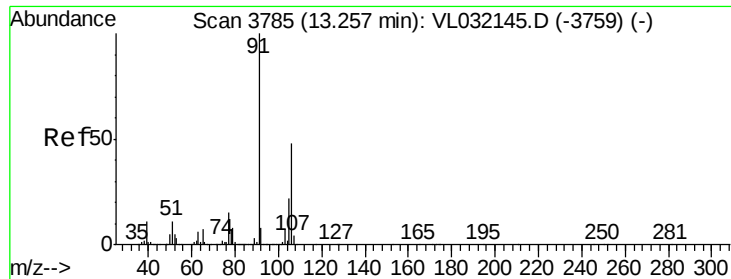
Delta R.T. -0.02 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

Tgt Ion:	91	Resp:	707105
Ion Ratio		Lower	Upper
91	100		
106	29.3	26.5	39.7





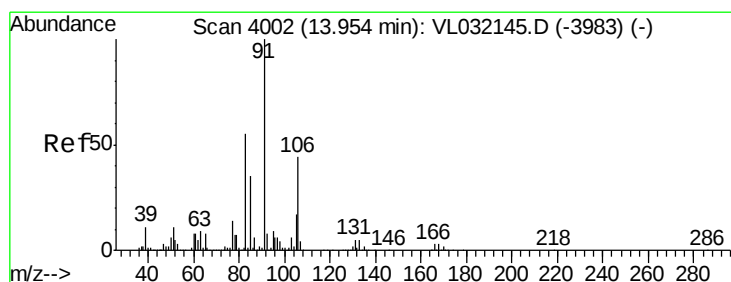
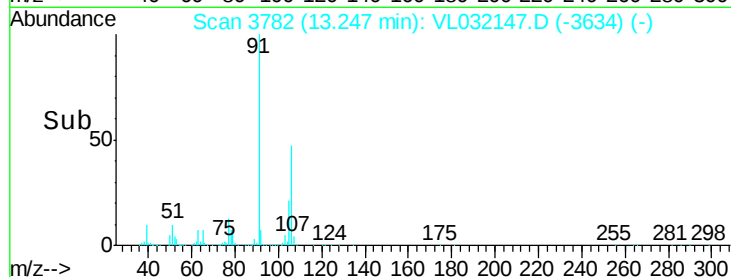
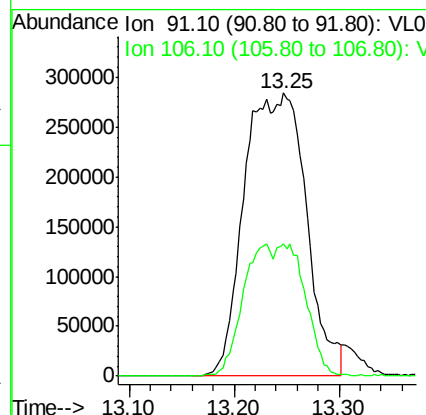
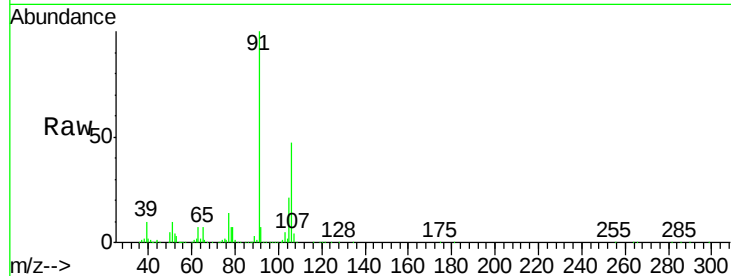
#59
m/p-Xylene
Concen: 2.13 ppbv m
RT: 13.25 min Scan# 3782
Delta R.T. -0.02 min
Lab File: VL032147.D
Acq: 29 Jun 2018 19:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 91 Resp: 1160211
Ion Ratio Lower Upper
91 100
106 45.7 38.6 58.0

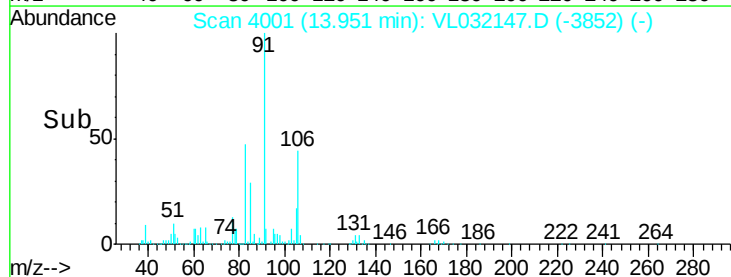
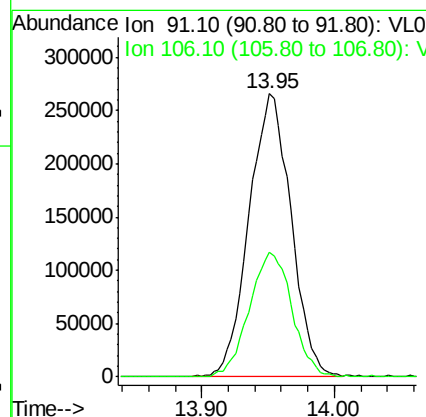
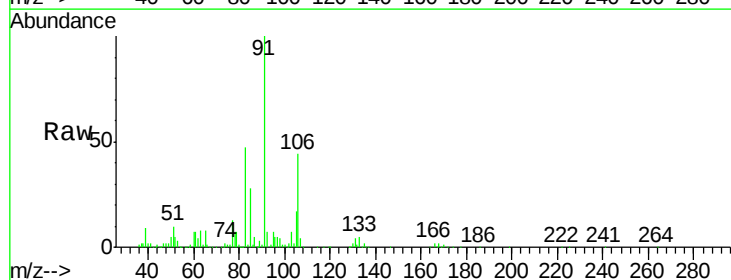
Manual Integrations
APPROVED

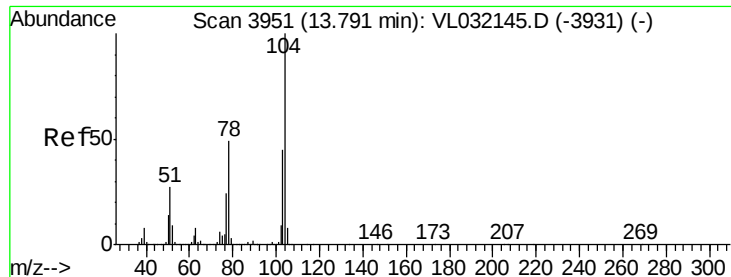
MMDadoda
7/2/2018 4:24:55 PM



#60
o-Xylene
Concen: 1.09 ppbv
RT: 13.95 min Scan# 4001
Delta R.T. -0.02 min
Lab File: VL032147.D
Acq: 29 Jun 2018 19:22

Tgt Ion: 91 Resp: 588191
Ion Ratio Lower Upper
91 100
106 44.6 23.3 69.8





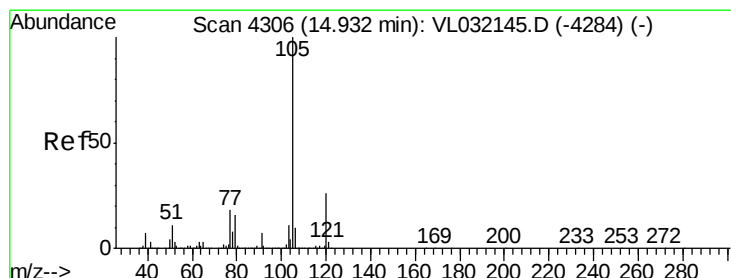
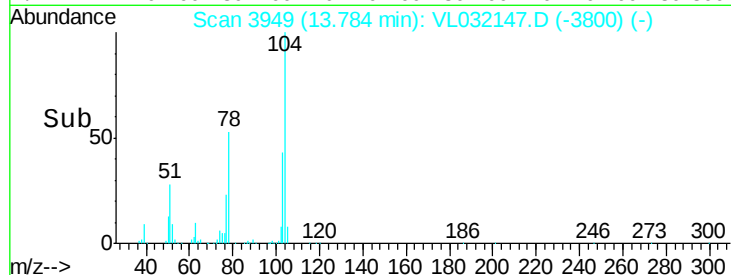
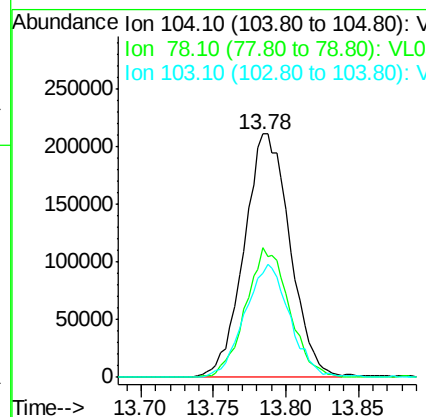
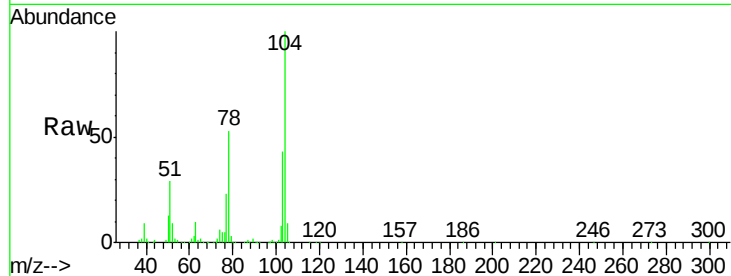
#61
Stvrene
Concen: 2.89 ppbv
RT: 13.78 min Scan# 3949
Delta R.T. -0.02 min
Lab File: VL032147.D
Acq: 29 Jun 2018 19:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
104	100		
78	50.1	37.9	56.9
103	45.7	36.6	55.0

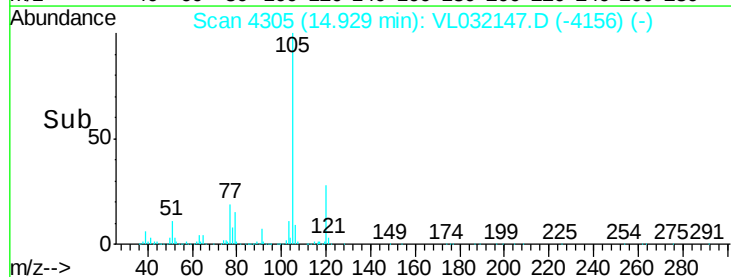
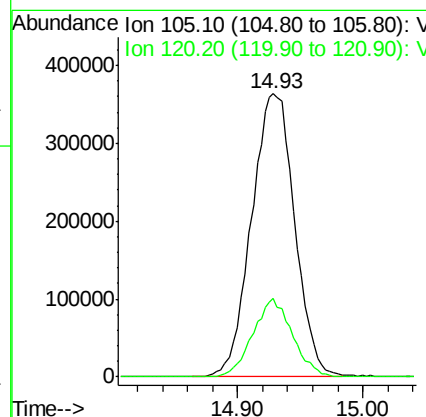
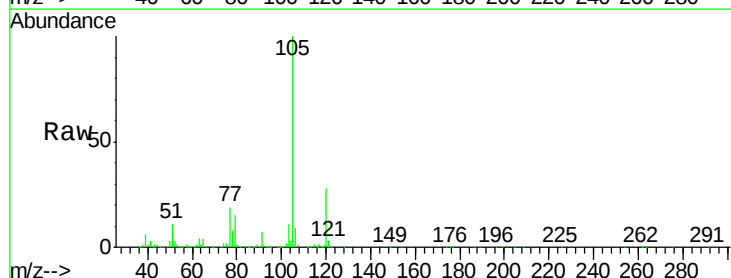
Manual Integrations
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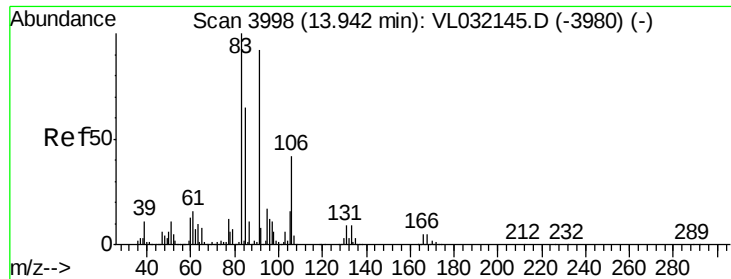
MMDadoda
7/2/2018 4:24:55 PM



#62
Isopropylbenzene
Concen: 1.21 ppbv
RT: 14.93 min Scan# 4305
Delta R.T. -0.02 min
Lab File: VL032147.D
Acq: 29 Jun 2018 19:22

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.5	21.0	31.4





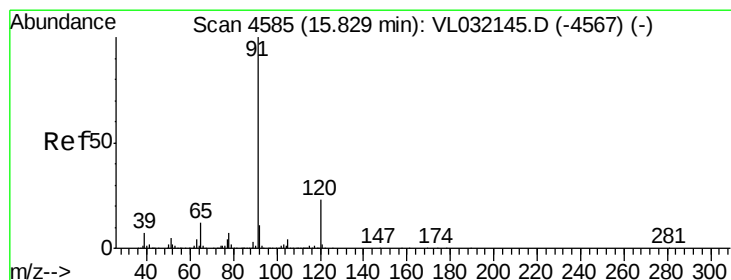
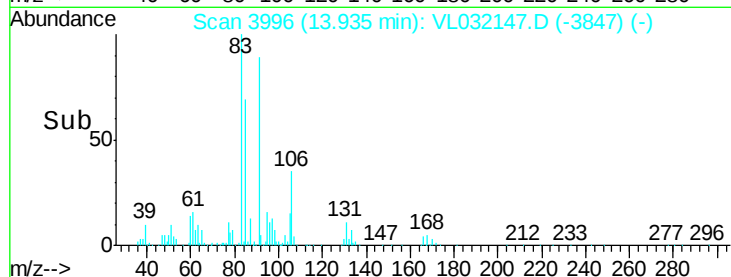
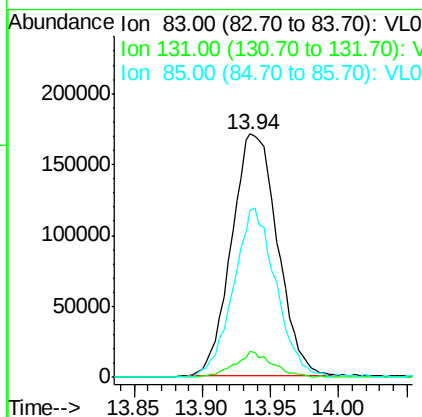
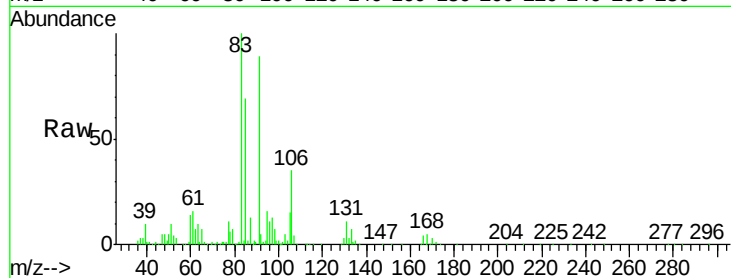
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.96 ppbv
 RT: 13.94 min Scan# 3996
 Delta R.T. -0.02 min
 Lab File: VL032147.D
 Acq: 29 Jun 2018 19:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.6	13.8
85	65.4	32.4	97.2

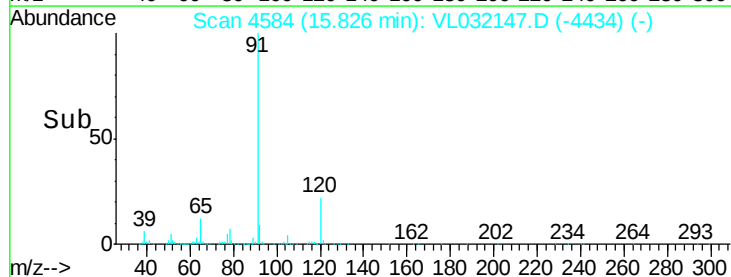
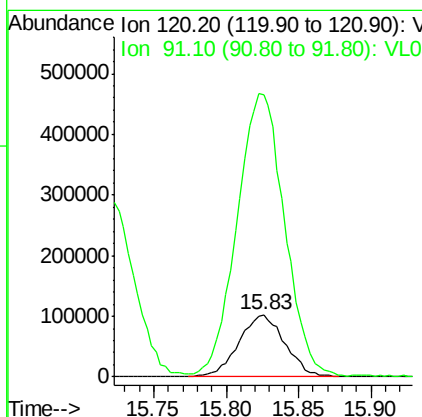
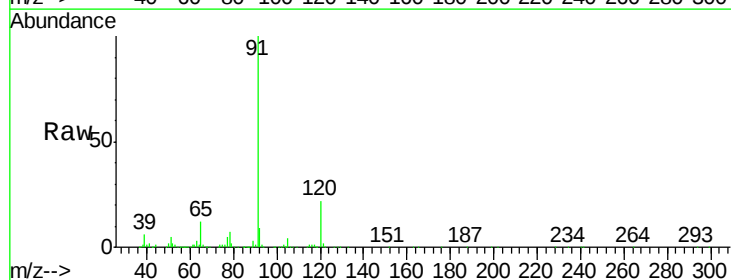
Manual Integrations
 APPROVED

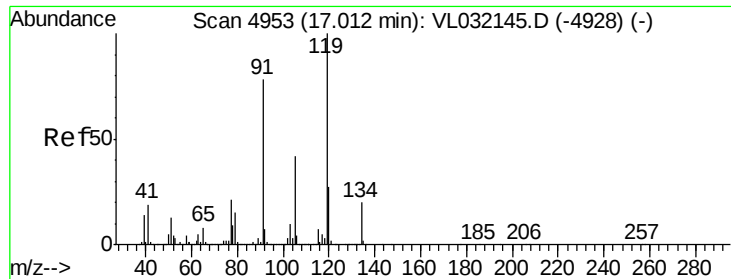
MMDadoda
 7/2/2018 4:24:55 PM



#64
 n-propylbenzene
 Concen: 1.19 ppbv
 RT: 15.83 min Scan# 4584
 Delta R.T. -0.02 min
 Lab File: VL032147.D
 Acq: 29 Jun 2018 19:22

Tgt Ion	Ratio	Lower	Upper
120	100		
91	480.0	357.4	536.0





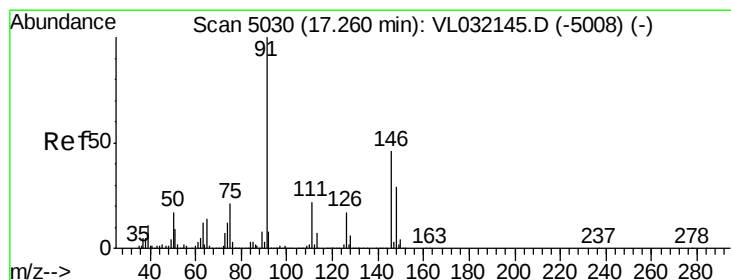
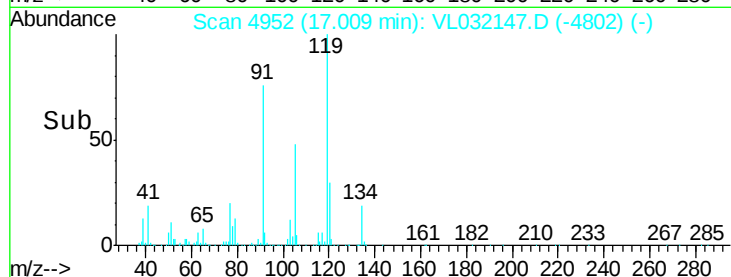
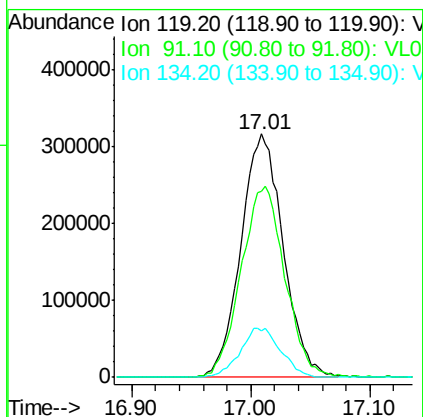
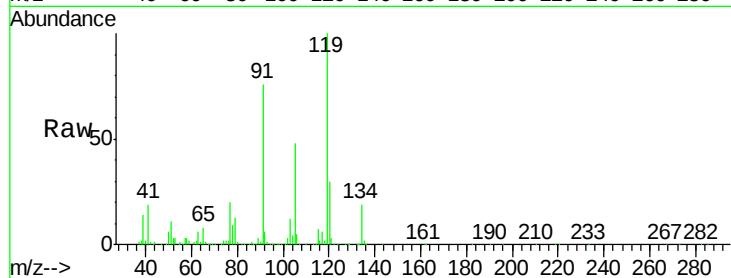
#65
tert-Butylbenzene
Concen: 1.23 ppbv
RT: 17.01 min Scan# 4952
Delta R.T. -0.02 min
Lab File: VL032147.D
Acq: 29 Jun 2018 19:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
119	100	778505		
91	82.0		62.2	93.2
134	19.5		16.2	24.2

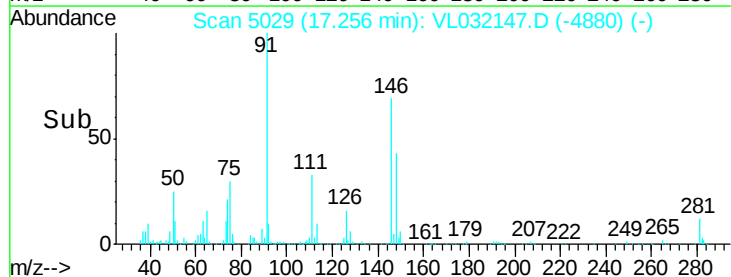
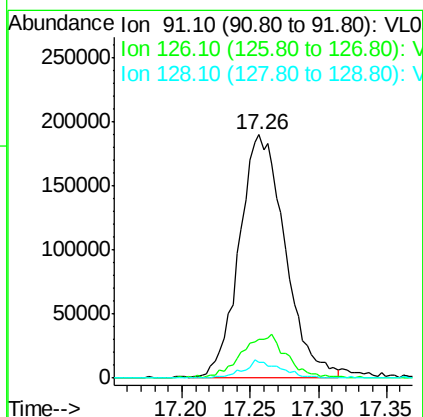
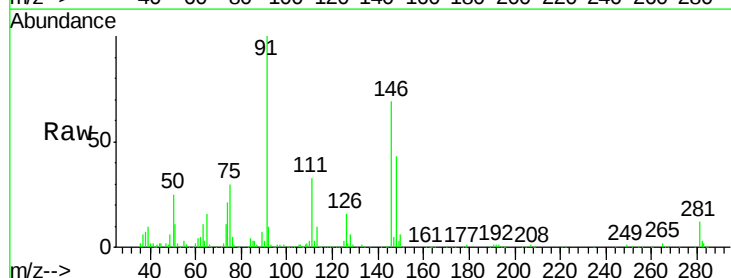
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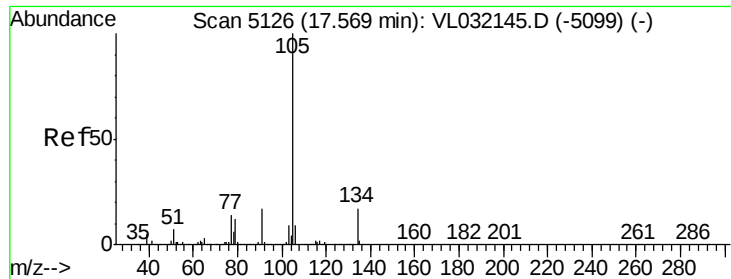
MMDadoda
7/2/2018 4:24:55 PM



#66
Benzyl Chloride
Concen: 5.43 ppbv
RT: 17.26 min Scan# 5029
Delta R.T. -0.02 min
Lab File: VL032147.D
Acq: 29 Jun 2018 19:22

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	438915		
126	18.3		15.7	23.5
128	6.0		5.2	7.8





#67

sec-Butylbenzene

Concen: 1.20 ppbv

RT: 17.56 min Scan# 5123

Delta R.T. -0.02 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 105 Resp: 1105694

Ion Ratio Lower Upper

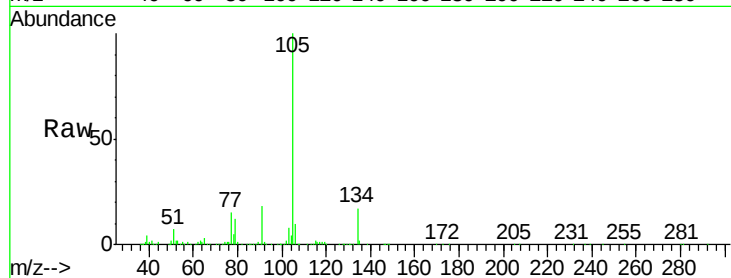
105 100

134 17.5 14.7 22.1

Manual Integrations
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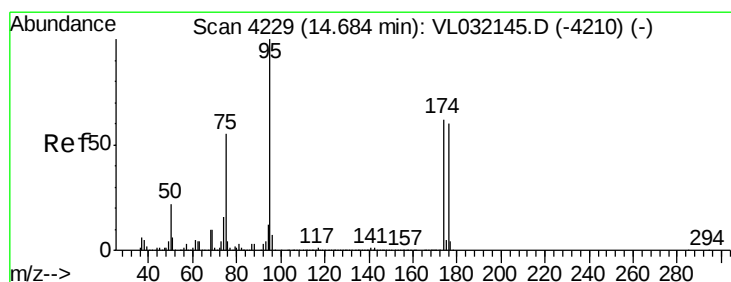
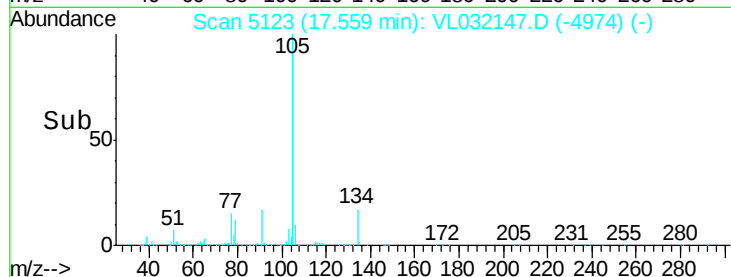
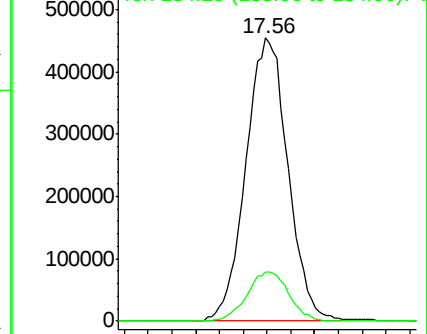
MMDadoda

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.23 ppbv

RT: 14.68 min Scan# 4227

Delta R.T. -0.02 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

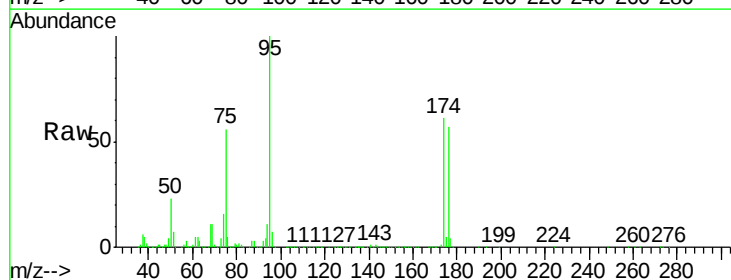
Tgt Ion: 95 Resp: 3002301

Ion Ratio Lower Upper

95 100

174 60.7 52.1 78.1

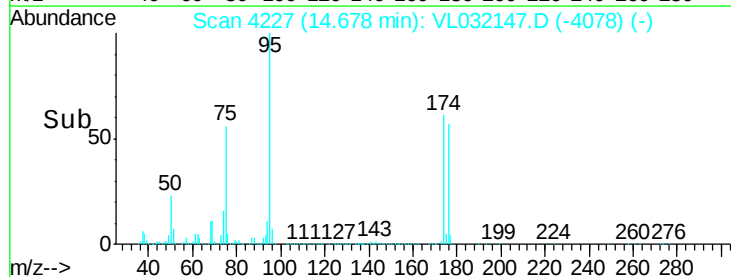
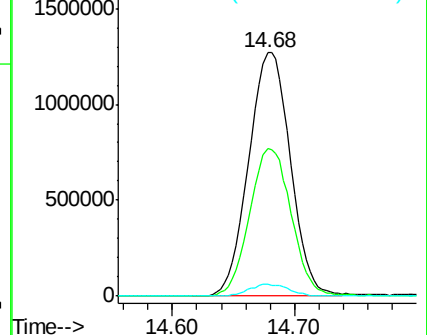
175 4.7 4.0 6.0

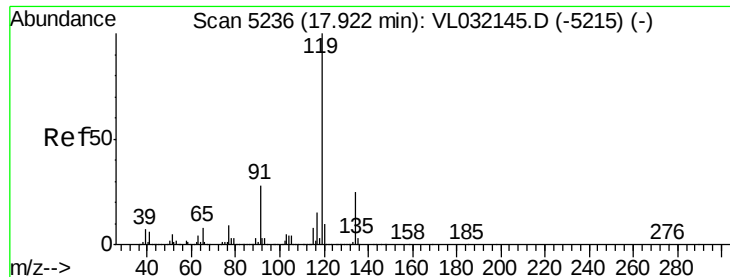


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





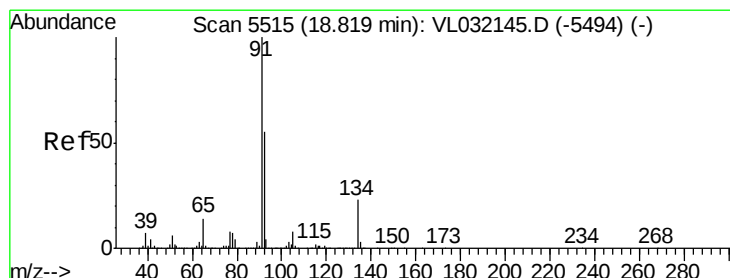
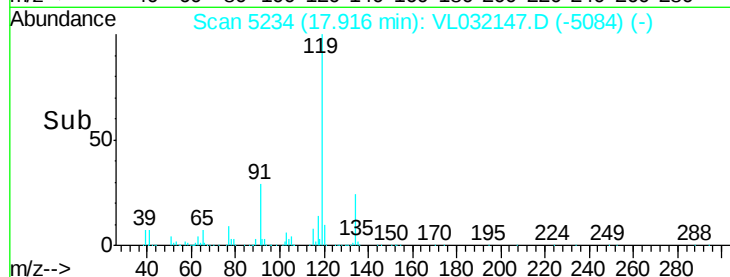
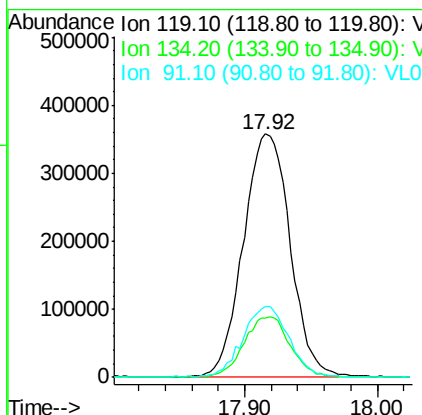
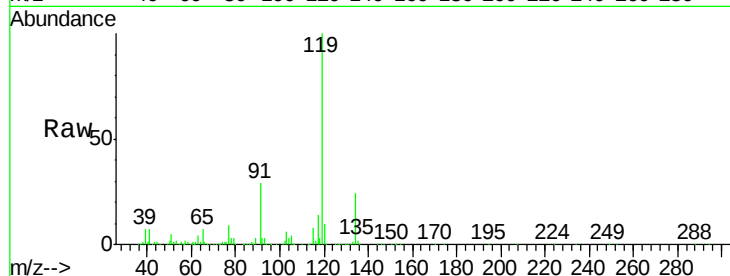
#69
 p-Isopropyltoluene
 Concen: 1.16 ppbv
 RT: 17.92 min Scan# 5234
 Delta R.T. -0.02 min
 Lab File: VL032147.D
 Acq: 29 Jun 2018 19:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.8	20.7	31.1
91	29.3	21.8	32.8

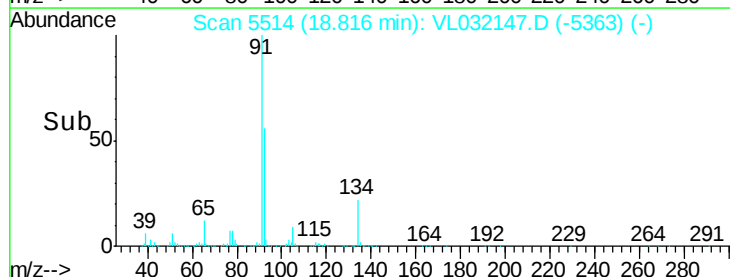
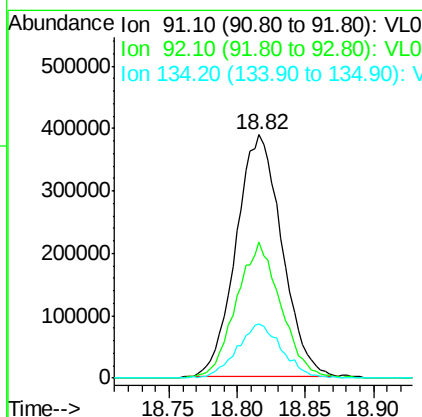
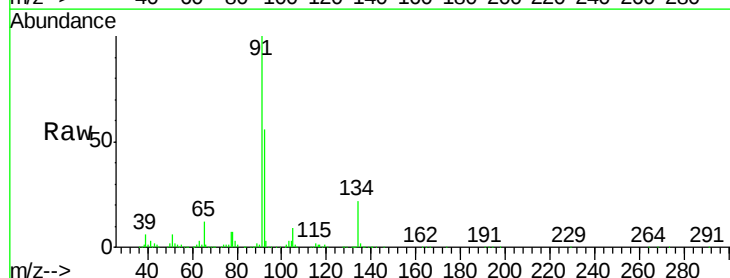
Manual Integrations
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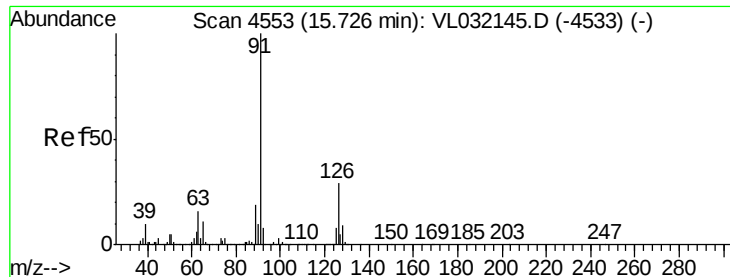
MMDadoda
 7/2/2018 4:24:55 PM



#70
 n-Butylbenzene
 Concen: 1.14 ppbv
 RT: 18.82 min Scan# 5514
 Delta R.T. -0.01 min
 Lab File: VL032147.D
 Acq: 29 Jun 2018 19:22

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.9	43.7	65.5
134	22.1	18.9	28.3





#71

2-Chlorotoluene

Concen: 1.19 ppbv

RT: 15.72 min Scan# 4552

Delta R.T. -0.02 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 657640

Ion Ratio Lower Upper

91 100

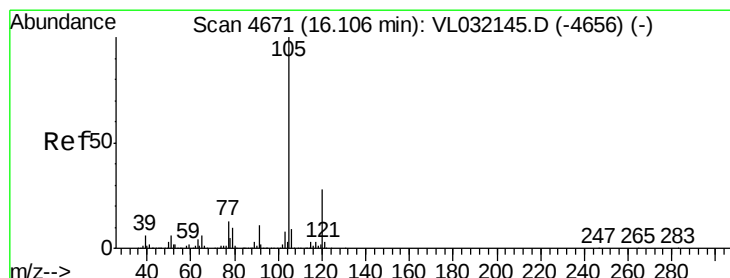
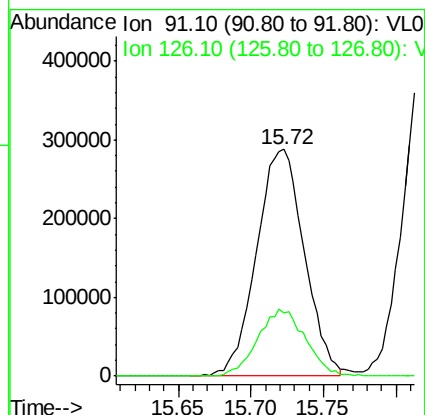
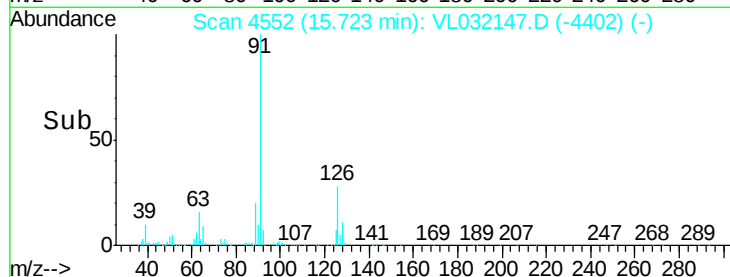
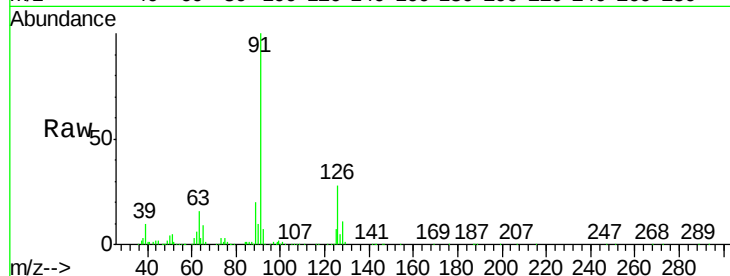
126 29.6 12.8 51.0

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#72

4-Ethyltoluene

Concen: 1.18 ppbv

RT: 16.10 min Scan# 4670

Delta R.T. -0.02 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

Tgt Ion: 105 Resp: 720390

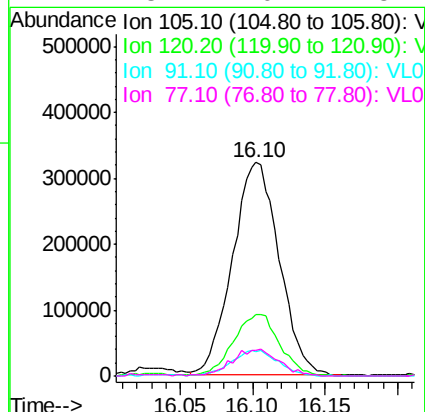
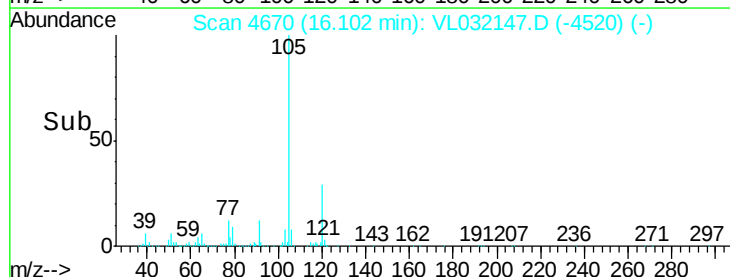
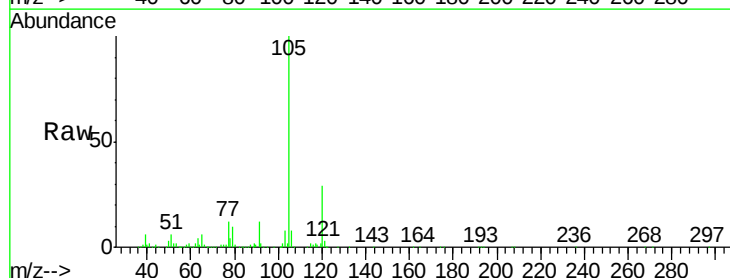
Ion Ratio Lower Upper

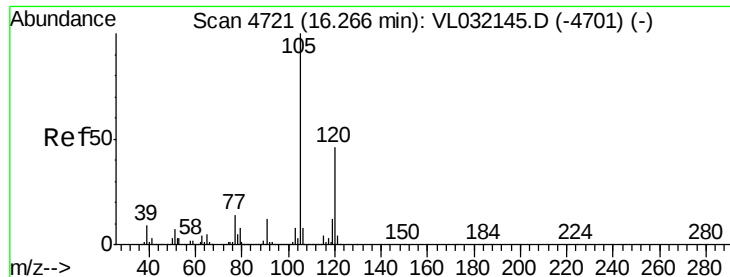
105 100

120 29.2 24.3 36.5

91 12.9 9.4 14.0

77 13.7 10.2 15.2





#73

1,3,5-Trimethylbenzene

Concen: 1.23 ppbv

RT: 16.26 min Scan# 4720

Delta R.T. -0.02 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:105 Resp: 669969

Ion Ratio Lower Upper

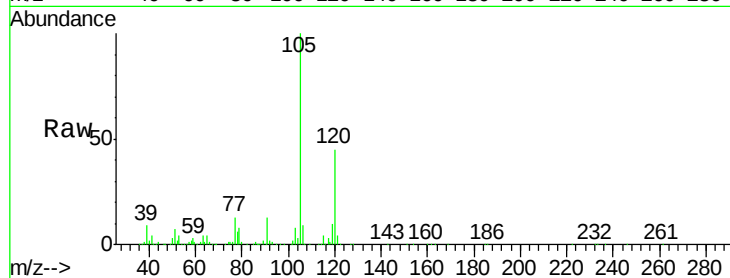
105 100

120 45.1 38.6 57.8

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.26

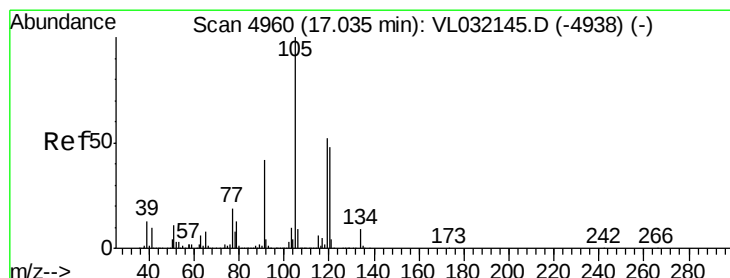
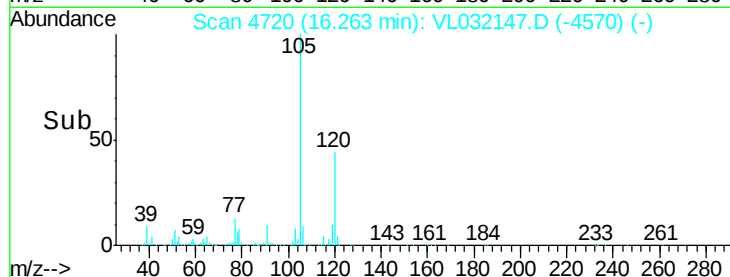
300000

200000

100000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 1.20 ppbv

RT: 17.02 min Scan# 4957

Delta R.T. -0.02 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

Tgt Ion:105 Resp: 694353

Ion Ratio Lower Upper

105 100

120 47.3 38.8 58.2

91 53.9 33.6 50.4#

77 22.2 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

400000

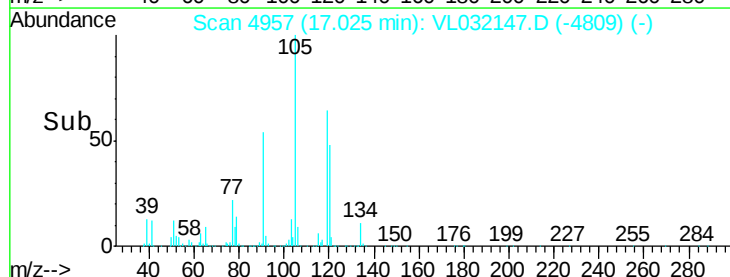
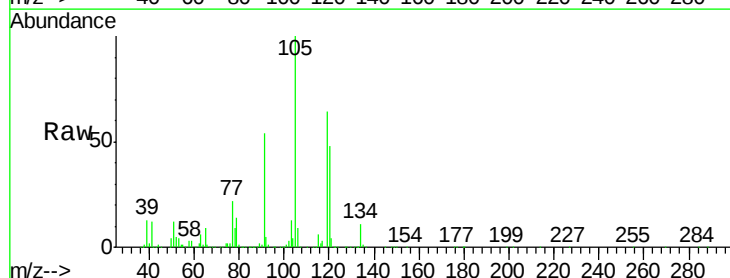
300000

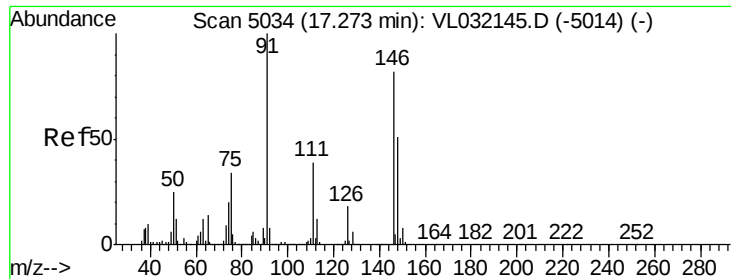
200000

100000

0

Time-->





#75

1,3-Dichlorobenzene

Concen: 1.12 ppbv

RT: 17.27 min Scan# 5033

Delta R.T. -0.02 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

Instrument :

MSVOA_L

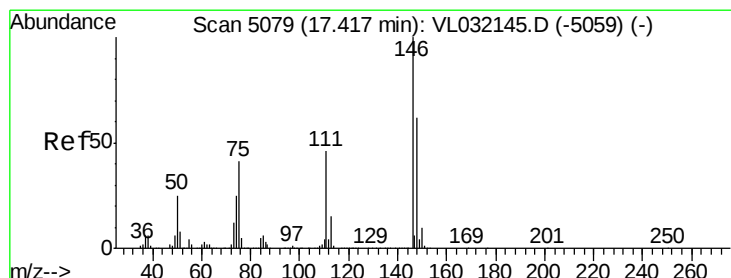
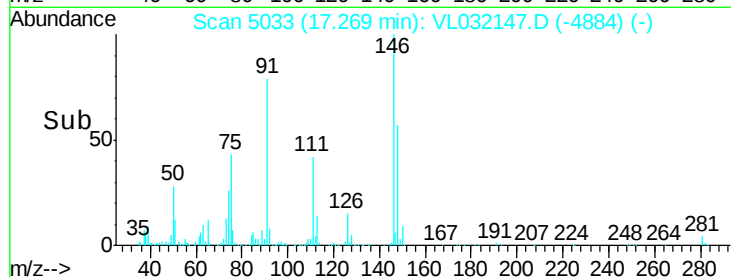
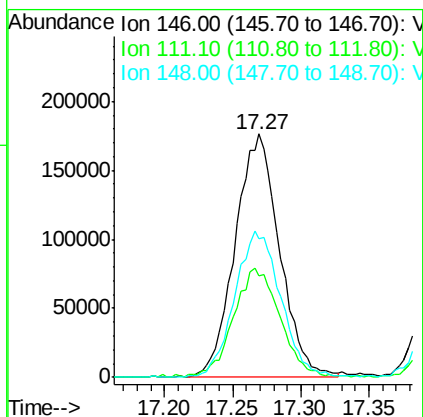
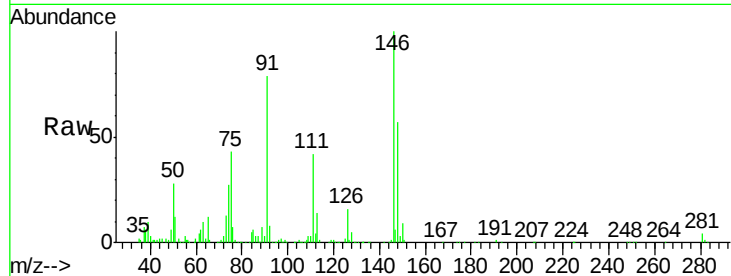
ClientSampleId :

VSTDIC001

Tot Ion:	146	Resp:	396341
Ion Ratio	Lower	Upper	
146	100		
111	48.1	22.9	68.8
148	63.2	31.7	95.1

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 1.04 ppbv

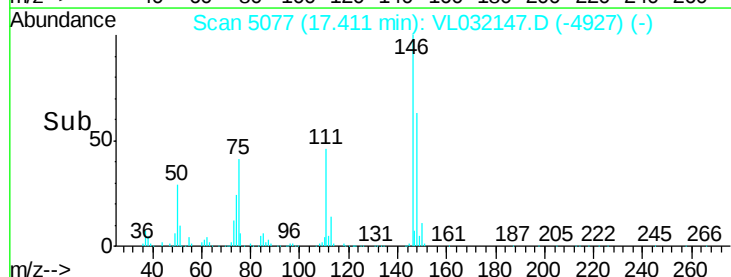
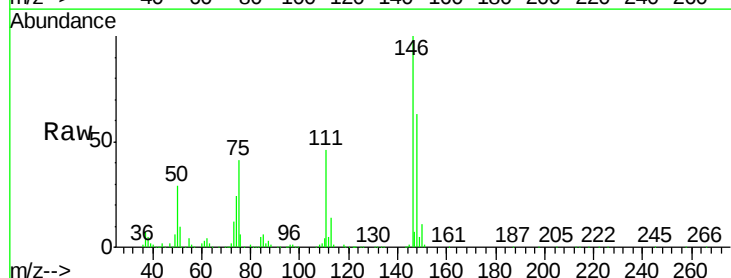
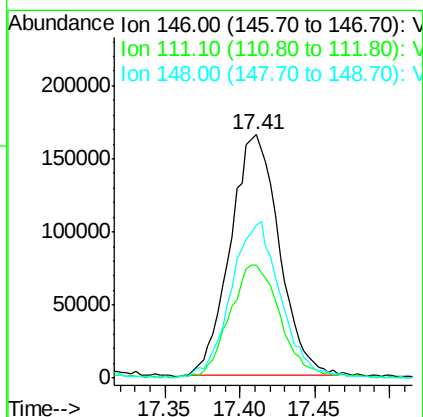
RT: 17.41 min Scan# 5077

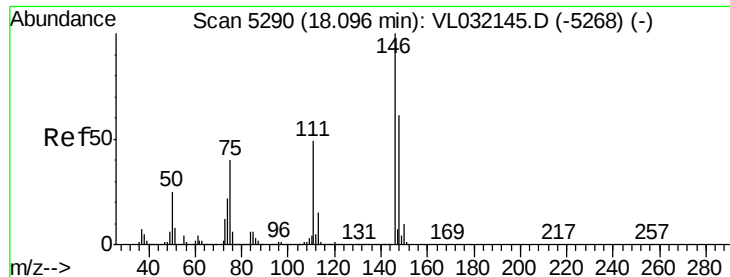
Delta R.T. -0.02 min

Lab File: VL032147.D

Acq: 29 Jun 2018 19:22

Tgt Ion:	146	Resp:	373397
Ion Ratio	Lower	Upper	
146	100		
111	50.2	21.9	65.8
148	66.7	32.1	96.5





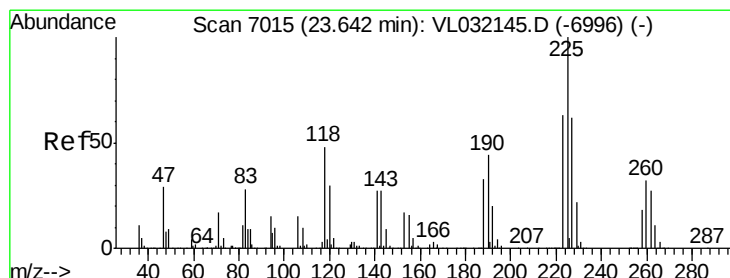
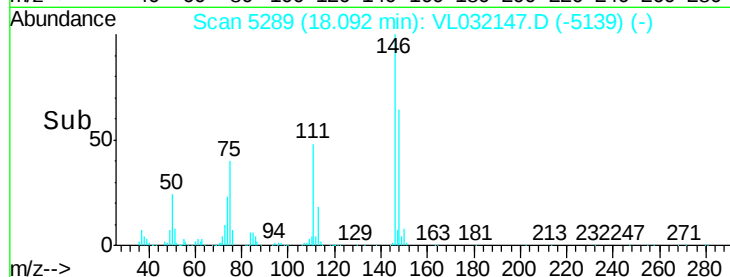
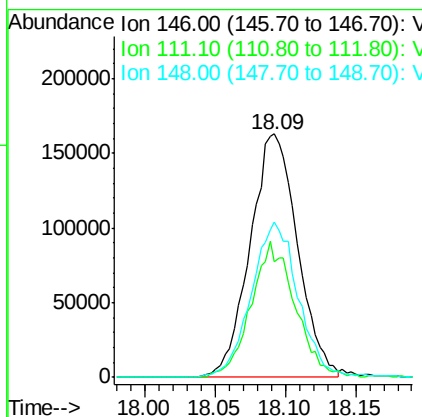
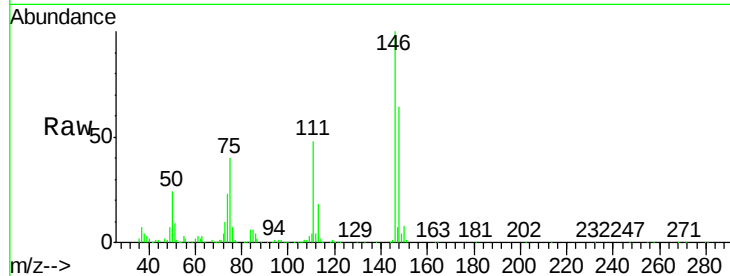
#77
 1,2-Dichlorobenzene
 Concen: 1.04 ppbv
 RT: 18.09 min Scan# 5289
 Delta R.T. -0.02 min
 Lab File: VL032147.D
 Acq: 29 Jun 2018 19:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	51.6	23.4	70.3
148	63.2	32.0	96.0

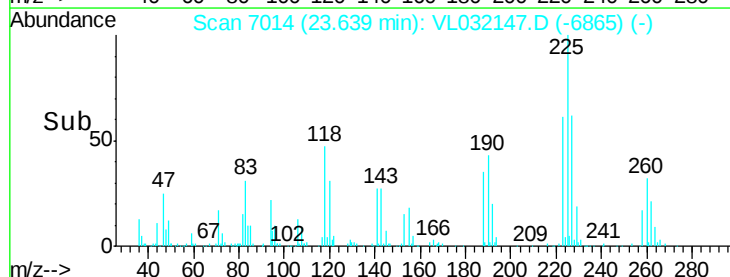
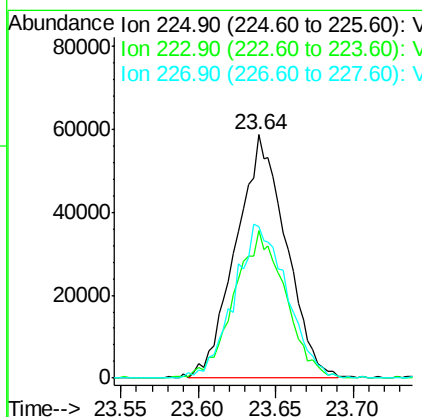
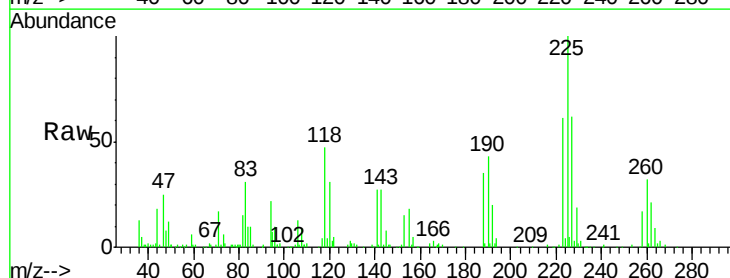
Manual Integrations
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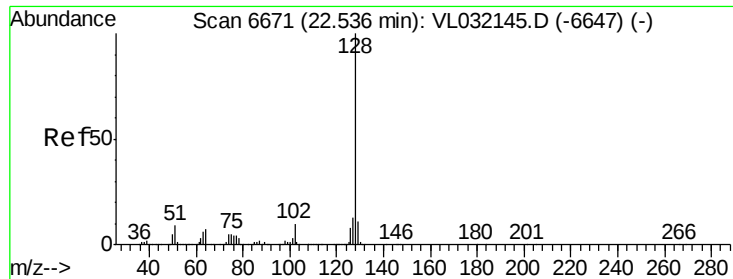
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#78
 Hexachloro-1,3-Butadiene
 Concen: 1.32 ppbv
 RT: 23.64 min Scan# 7014
 Delta R.T. -0.02 min
 Lab File: VL032147.D
 Acq: 29 Jun 2018 19:22

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.6	51.0	76.4
227	66.3	51.4	77.0





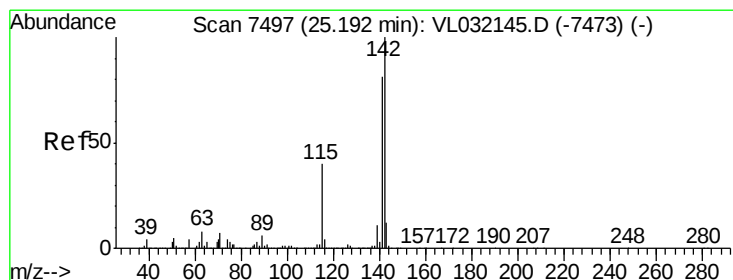
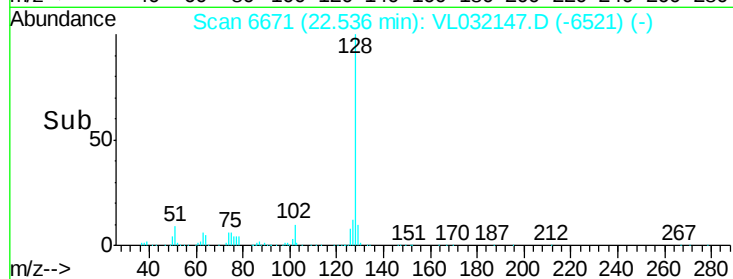
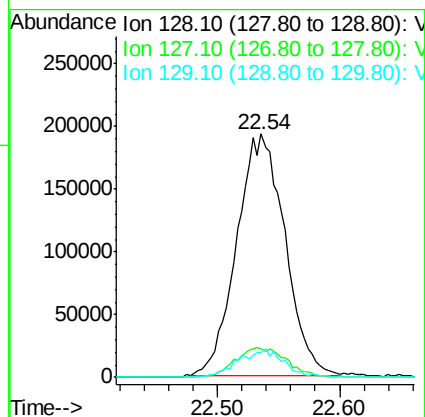
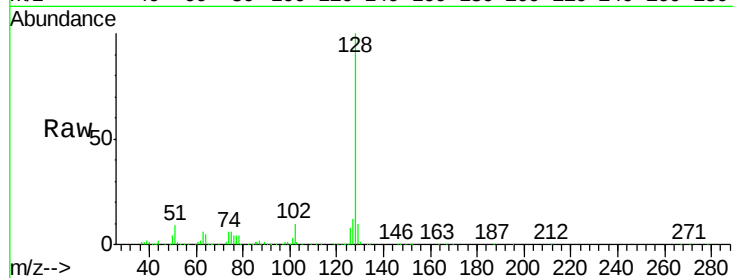
#79
Naphthalene
Concen: 0.86 ppbv
RT: 22.54 min Scan# 6671
Delta R.T. -0.02 min
Lab File: VL032147.D
Acq: 29 Jun 2018 19:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.1	10.5	15.7
129	10.0	9.0	13.6

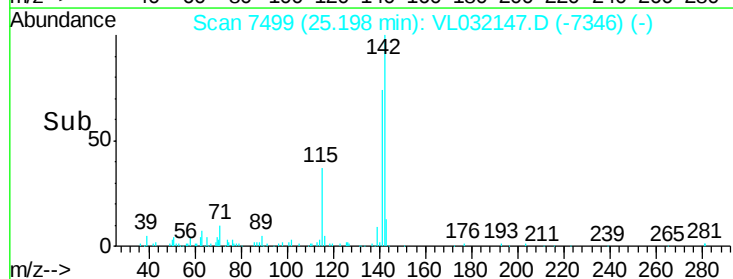
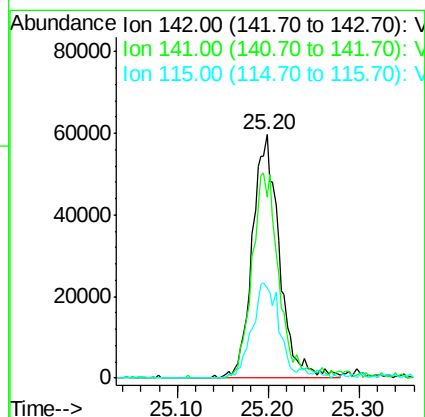
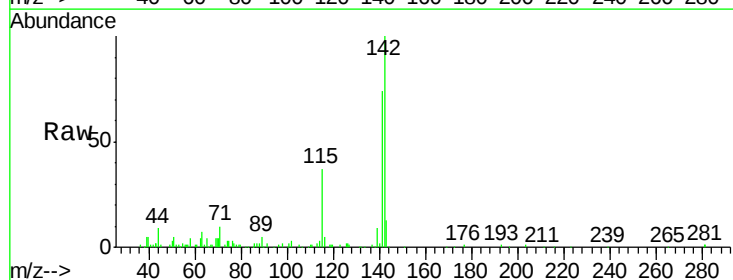
Manual Integrations
APPROVED

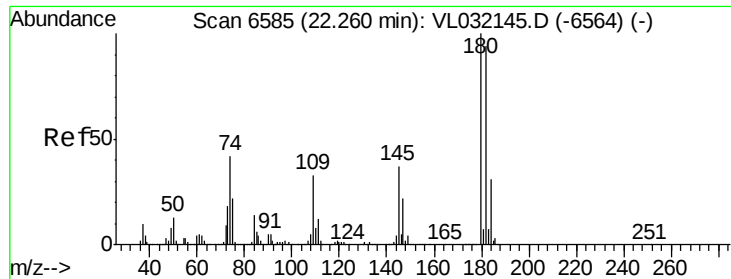
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#80
Naphthalene, 2-methyl-
Concen: 0.34 ppbv
RT: 25.20 min Scan# 7499
Delta R.T. -0.01 min
Lab File: VL032147.D
Acq: 29 Jun 2018 19:22

Tgt Ion	Ratio	Lower	Upper
142	100		
141	82.2	65.8	98.6
115	41.1	29.4	44.0





#81
 1,2,4-Trichlorobenzene
 Concen: 1.05 ppbv
 RT: 22.26 min Scan# 6585
 Delta R.T. -0.01 min
 Lab File: VL032147.D
 Acq: 29 Jun 2018 19:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
180	100	249038		
182	96.1		76.2	114.4
184	30.9		24.4	36.6

Manual Integrations
 APPROVED

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