

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062918\
 Data File : VL032151.D
 Acq On : 29 Jun 2018 21:55
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 7/2/2018 4:25:11 PM

Quant Time: Jun 29 22:25:05 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 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	1592187	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.39	114	4242075	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.35	117	4053219m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.69	95	3060193	10.16	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	2258470	13.53	ppbv	100
3) Chlorodifluoromethane	3.07	51	2533569	12.26	ppbv	96
4) Chloromethane	3.23	50	1433312	12.98	ppbv	100
5) Vinyl Chloride	3.35	62	1397846	12.27	ppbv	98
6) Bromomethane	3.58	94	826530	12.49	ppbv	98
7) Chloroethane	3.67	64	504592	11.95	ppbv	98
8) Dichlorotetrafluoroethane	3.28	85	2884521	12.56	ppbv	97
9) Propene	3.09	41	1188464	11.77	ppbv	98
10) Heptane	8.35	43	3467517	12.11	ppbv	99
11) Trichlorofluoromethane	4.08	101	2912085	13.24	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.63	101	1933051	12.98	ppbv	97
13) Ethanol	3.72	45	287062	9.44	ppbv	99
14) Bromoethene	3.86	108	981531	13.45	ppbv	98
15) Acetone	3.97	43	2352811	11.12	ppbv	100
16) 1,3-Butadiene	3.42	39	1275131	12.83	ppbv	90
17) tert-Butyl alcohol	4.44	59	1495996	11.76	ppbv	99
18) 1,1-Dichloroethene	4.43	96	939116	12.84	ppbv	99
19) Isopropyl Alcohol	4.10	45	1876208	11.30	ppbv	94
20) Methylene Chloride	4.49	84	831285	11.63	ppbv	99
21) Allyl Chloride	4.56	41	1722018	13.12	ppbv	97
22) trans-1,2-Dichloroethene	5.04	96	1036673	13.93	ppbv	97
23) Vinyl Acetate	5.24	43	4524003	14.05	ppbv	98
24) 1,1-Dichloroethane	5.18	63	2774827	11.45	ppbv	99
25) Ethyl Acetate	5.86	43	5075165	10.94	ppbv	100
26) Hexane	5.87	57	2273245	11.05	ppbv	94
27) Carbon Disulfide	4.70	76	2479439	12.06	ppbv	99
28) Methyl tert-Butyl Ether	5.19	73	3920528	15.07	ppbv	100
29) Chloroform	5.94	83	3530125	13.00	ppbv	99
30) Cyclohexane	7.34	84	2277316	13.45	ppbv	98
31) cis-1,2-Dichloroethene	5.73	61	2468194	13.48	ppbv	98
32) 1,1,1-Trichloroethane	6.71	97	3650151	12.90	ppbv	99
34) 2-Butanone	5.41	43	3636889	10.56	ppbv	100
35) Carbon Tetrachloride	7.23	117	3793204	12.88	ppbv	99
36) Benzene	7.10	78	5439646	11.83	ppbv	97
37) 1,2-Dichloroethane	6.50	62	2850968	12.05	ppbv	99
38) Trichloroethene	8.06	130	1816187	10.24	ppbv	96
39) 1,2-Dichloropropane	7.84	63	2118168	12.54	ppbv	95
40) 1,4-Dioxane	8.05	88	687842	8.74	ppbv #	1
41) Tetrahydrofuran	6.24	42	2151107	10.46	ppbv	99
42) Bromodichloromethane	8.02	83	4223275	13.20	ppbv	99
43) Methyl Methacrylate	8.24	69	2246607	12.35	ppbv	98

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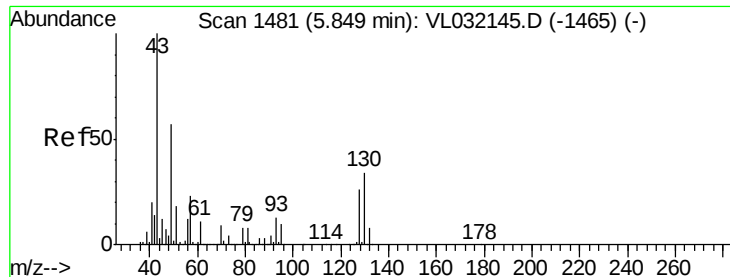
Manual Integrations
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Quant Time: Jun 29 22:25:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 2018
 QLast Update : Fri Jun 29 20:36:18 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.09	57	8593676	11.38	ppbv	98
45) t-1,3-Dichloropropene	9.52	75	3049917	13.55	ppbv	100
46) cis-1,3-Dichloropropene	8.94	75	3493546	12.13	ppbv	99
47) 1,1,2-Trichloroethane	9.72	97	2205693	11.54	ppbv	99
48) Dibromochloromethane	10.56	129	3442471	12.03	ppbv	99
49) Bromoform	13.32	173	2843851	12.98	ppbv	99
50) 4-Methyl-2-Pentanone	8.97	43	5755971	10.78	ppbv	99
51) 2-Hexanone	10.38	43	4746020	8.93	ppbv	100
52) Tetrachloroethene	11.48	164	1661507	9.77	ppbv	96
53) Toluene	10.05	91	6124854	11.03	ppbv	100
54) 1,2-Dibromoethane	10.87	107	3274881	11.58	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.39	131	2277440	12.64	ppbv	87
57) Chlorobenzene	12.41	112	4312785	11.23	ppbv	97
58) Ethyl Benzene	12.97	91	8186040	11.59	ppbv	98
59) m/p-Xylene	13.26	91	12800543m	22.91	ppbv	
60) o-Xylene	13.96	91	6193895	11.17	ppbv	97
61) Styrene	13.80	104	5420802	32.74	ppbv	95
62) Isopropylbenzene	14.94	105	9177029	12.42	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.94	83	4385821	10.19	ppbv	100
64) n-propylbenzene	15.83	120	2442371	12.69	ppbv	94
65) tert-Butylbenzene	17.02	119	7550903	11.61	ppbv	95
66) Benzyl Chloride	17.27	91	5621540	67.74	ppbv	97
67) sec-Butylbenzene	17.57	105	11123179	11.73	ppbv	99
69) p-Isopropyltoluene	17.93	119	9137774	11.76	ppbv	97
70) n-Butylbenzene	18.82	91	9783667	11.97	ppbv	99
71) 2-Chlorotoluene	15.73	91	7309395	12.90	ppbv	96
72) 4-Ethyltoluene	16.11	105	7977882	12.75	ppbv	98
73) 1,3,5-Trimethylbenzene	16.27	105	7483895	13.36	ppbv	97
74) 1,2,4-Trimethylbenzene	17.04	105	7114855	11.95	ppbv	96
75) 1,3-Dichlorobenzene	17.28	146	4007055	11.00	ppbv	97
76) 1,4-Dichlorobenzene	17.42	146	4245430	11.46	ppbv	97
77) 1,2-Dichlorobenzene	18.10	146	4174770	11.02	ppbv	98
78) Hexachloro-1,3-Butadiene	23.64	225	1463308	14.19	ppbv	99
79) Naphthalene	22.54	128	8159418	13.12	ppbv	100
80) Naphthalene, 2-methyl-	25.20	142	4302129	11.55	ppbv	97
81) 1,2,4-Trichlorobenzene	22.26	180	3584952	14.72	ppbv	100

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.85 min Scan# 1482

Delta R.T. -0.01 min

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ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 1592187

Ion Ratio Lower Upper

49 100

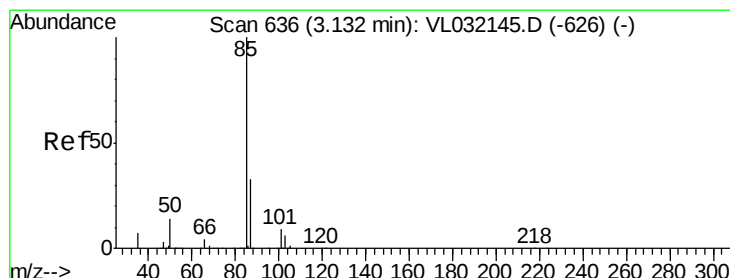
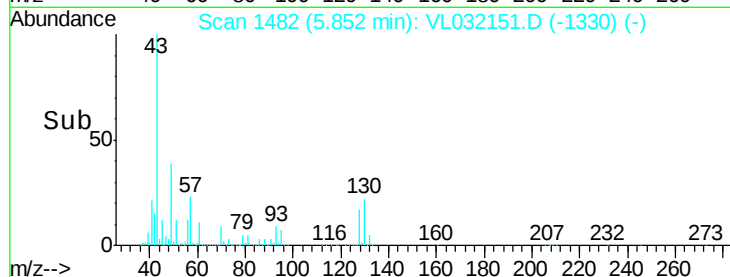
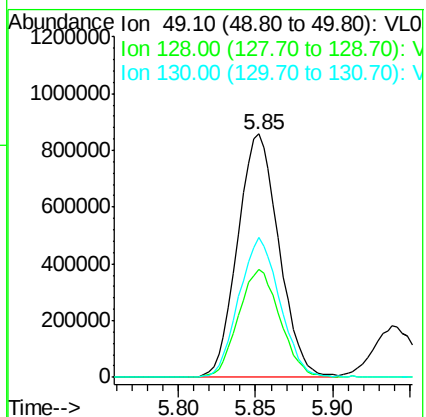
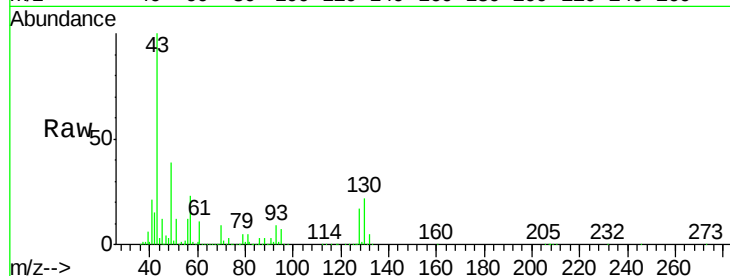
128 45.0 23.4 70.0

130 57.3 30.3 90.9

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#2

Dichlorodifluoromethane

Concen: 13.53 ppbv

RT: 3.13 min Scan# 637

Delta R.T. -0.01 min

Lab File: VL032151.D

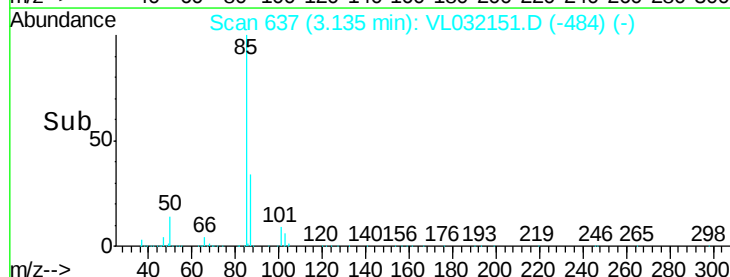
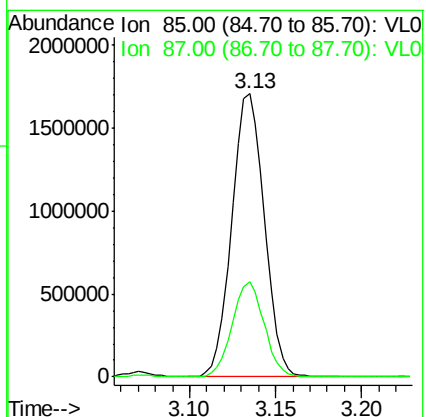
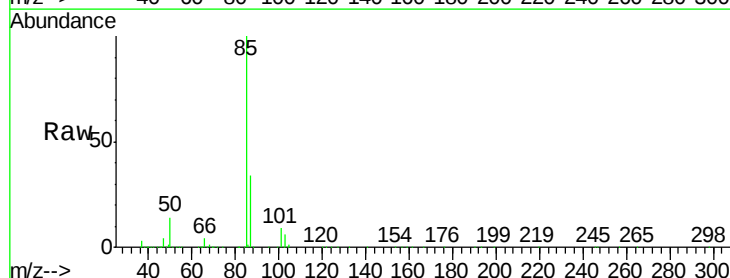
Acq: 29 Jun 2018 21:55

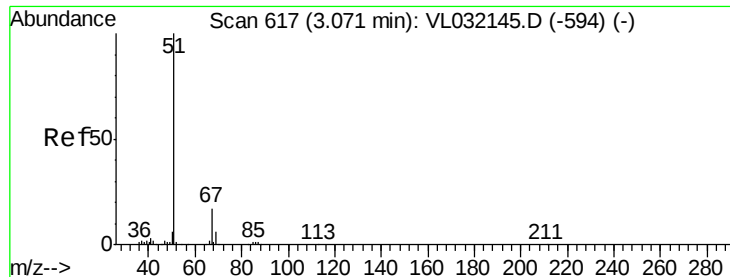
Tgt Ion: 85 Resp: 2258470

Ion Ratio Lower Upper

85 100

87 33.5 26.7 40.1





#3

Chlorodifluoromethane

Concen: 12.26 ppbv

RT: 3.07 min Scan# 617

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 51 Resp: 2533569

Ion Ratio Lower Upper

51 100

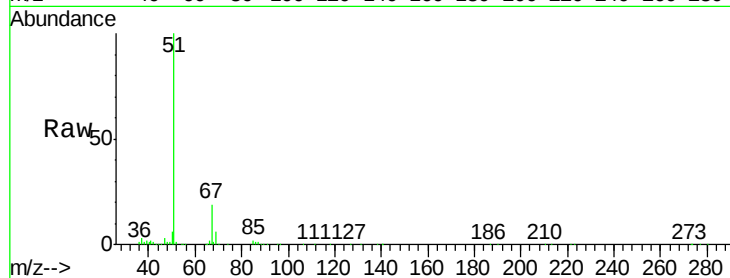
67 18.4 13.2 19.8

Manual Integrations

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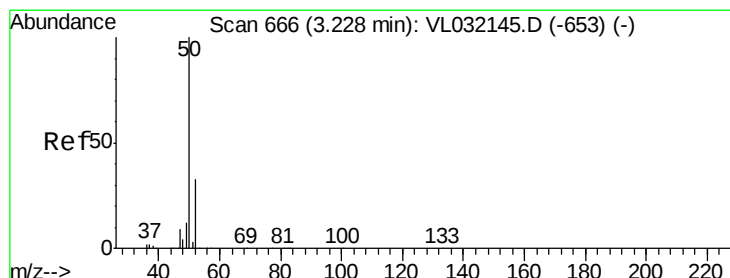
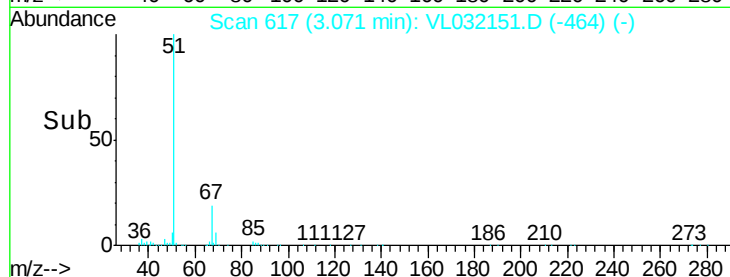
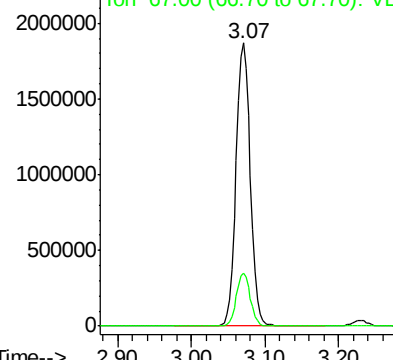
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 12.98 ppbv

RT: 3.23 min Scan# 666

Delta R.T. -0.01 min

Lab File: VL032151.D

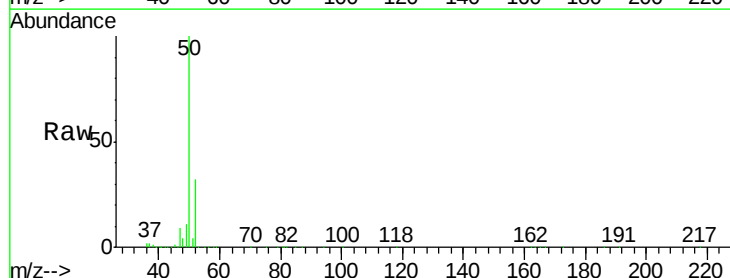
Acq: 29 Jun 2018 21:55

Tgt Ion: 50 Resp: 1433312

Ion Ratio Lower Upper

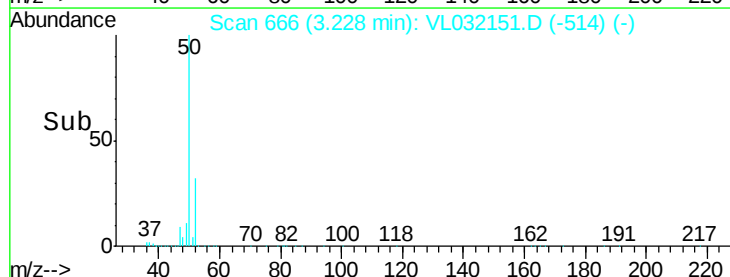
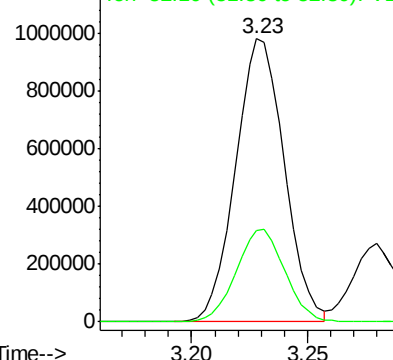
50 100

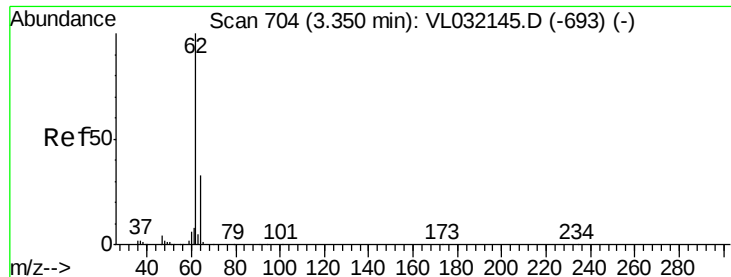
52 32.4 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 12.27 ppbv

RT: 3.35 min Scan# 705

Delta R.T. -0.00 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 1397846

Ion Ratio Lower Upper

62 100

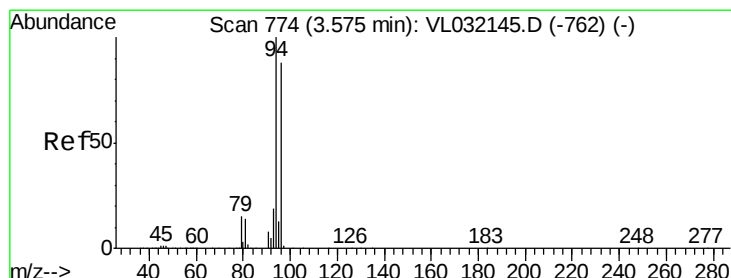
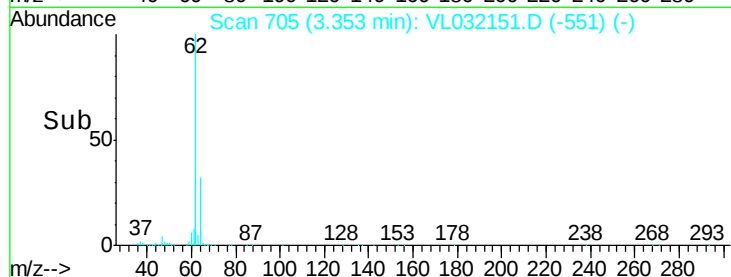
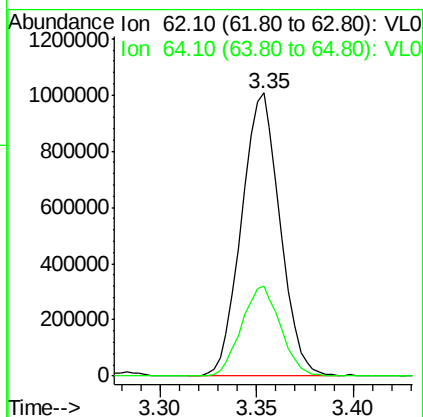
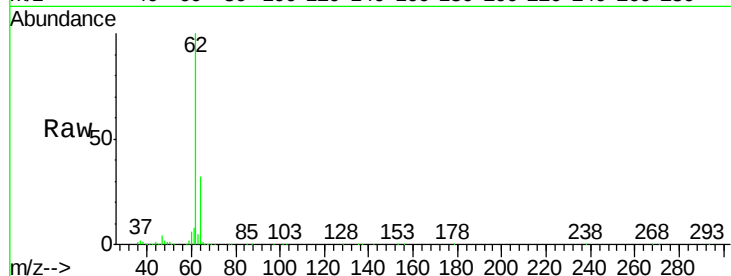
64 31.7 26.1 39.1

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#6

Bromomethane

Concen: 12.49 ppbv

RT: 3.58 min Scan# 775

Delta R.T. -0.01 min

Lab File: VL032151.D

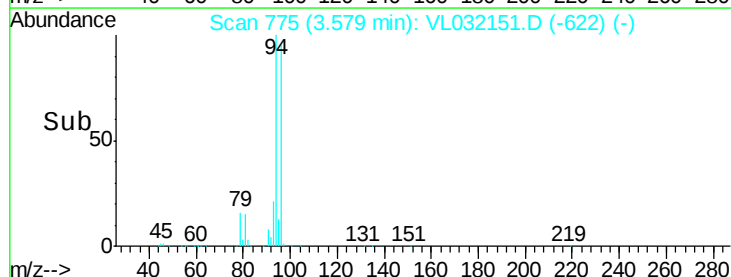
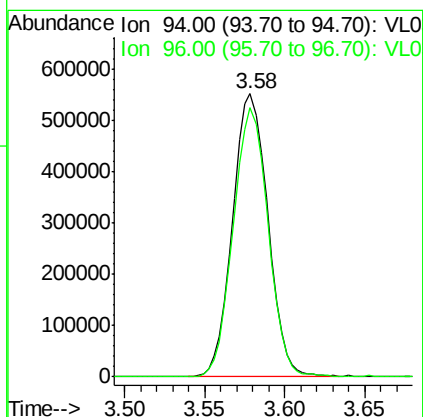
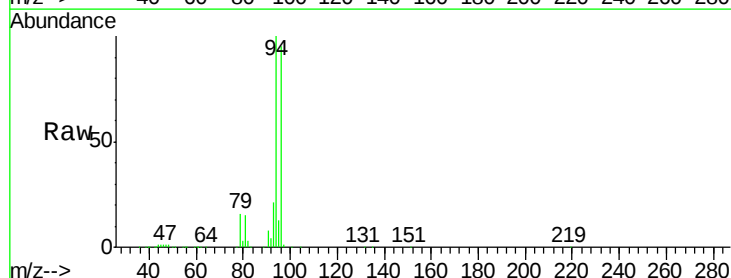
Acq: 29 Jun 2018 21:55

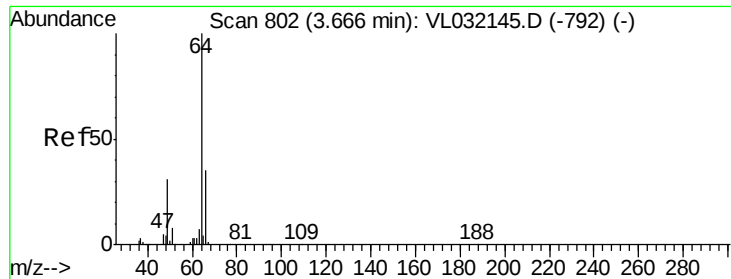
Tgt Ion: 94 Resp: 826530

Ion Ratio Lower Upper

94 100

96 95.4 74.7 112.1





#7

Chloroethane

Concen: 11.95 ppbv

RT: 3.67 min Scan# 802

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 504592

Ion Ratio Lower Upper

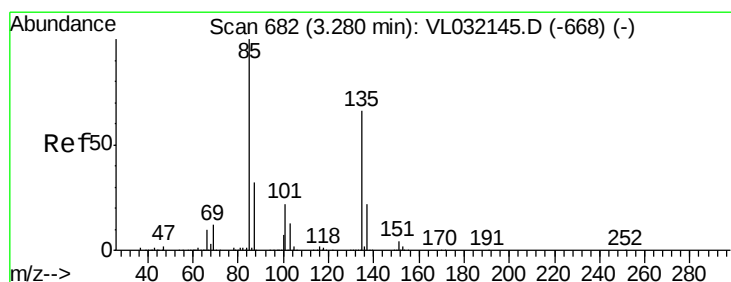
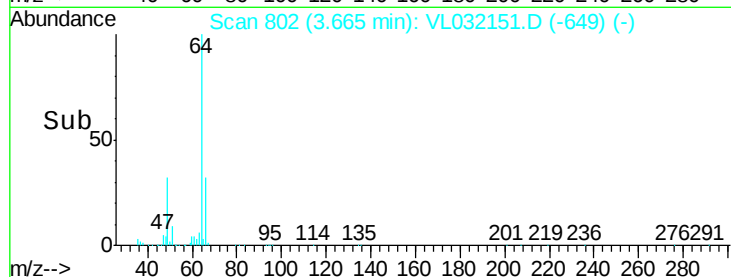
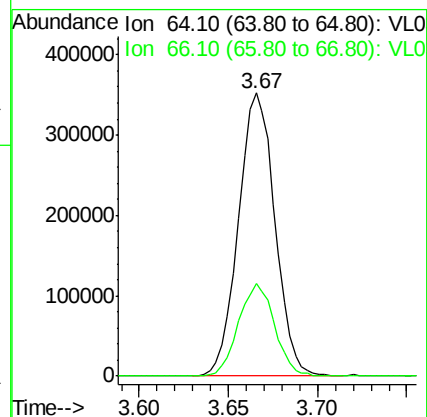
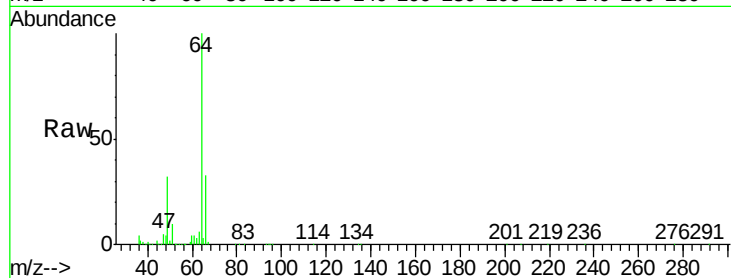
64 100

66 32.5 26.9 40.3

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#8

Dichlorotetrafluoroethane

Concen: 12.56 ppbv

RT: 3.28 min Scan# 682

Delta R.T. -0.01 min

Lab File: VL032151.D

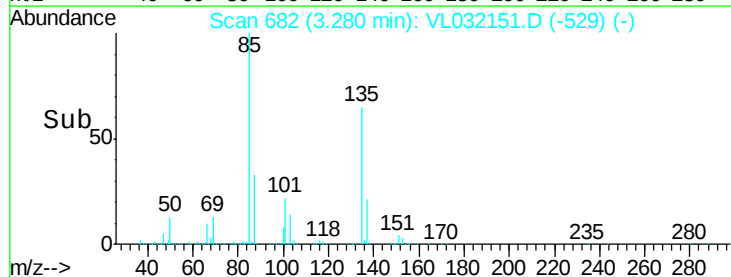
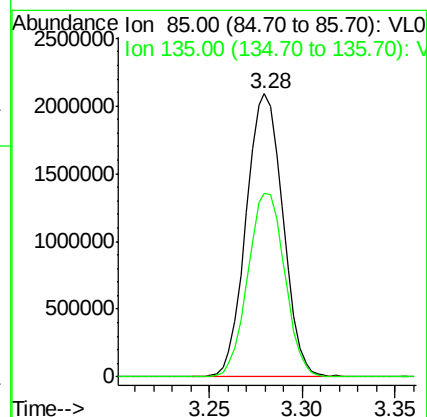
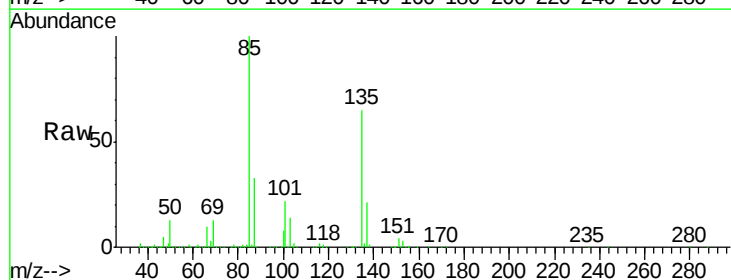
Acq: 29 Jun 2018 21:55

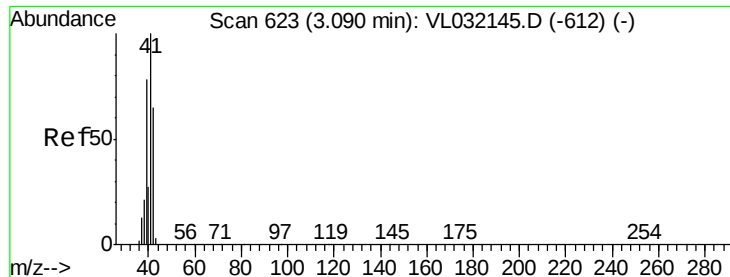
Tgt Ion: 85 Resp: 2884521

Ion Ratio Lower Upper

85 100

135 65.6 54.6 82.0





#9

Propene

Concen: 11.77 ppbv

RT: 3.09 min Scan# 624

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

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ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 1188464

Ion Ratio Lower Upper

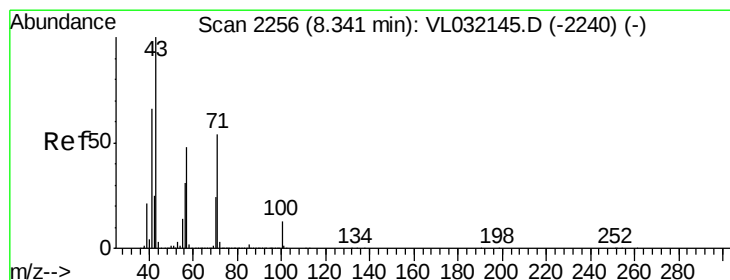
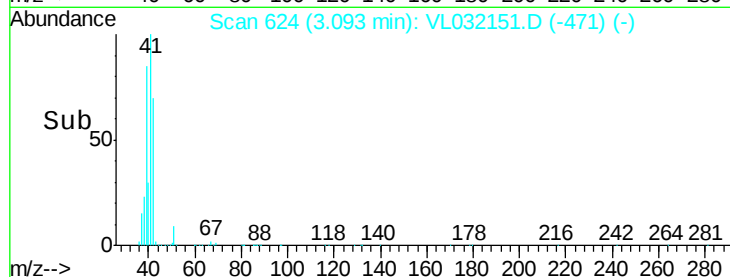
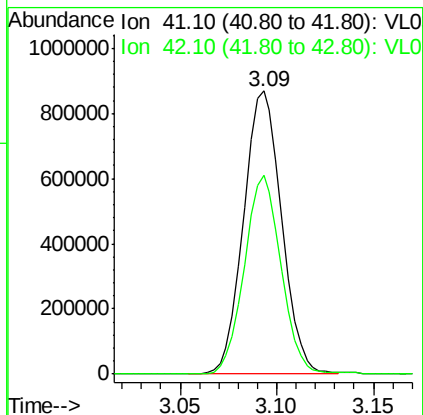
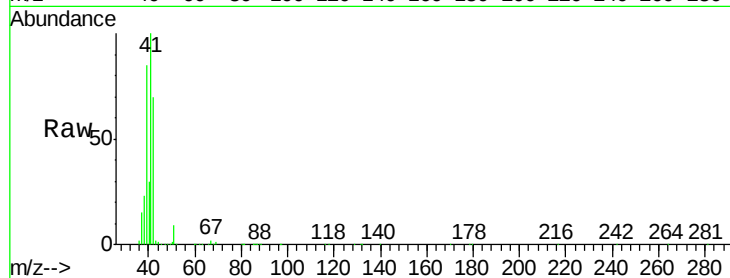
41 100

42 68.4 56.2 84.4

Manual Integrations
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#10

Heptane

Concen: 12.11 ppbv

RT: 8.35 min Scan# 2258

Delta R.T. -0.01 min

Lab File: VL032151.D

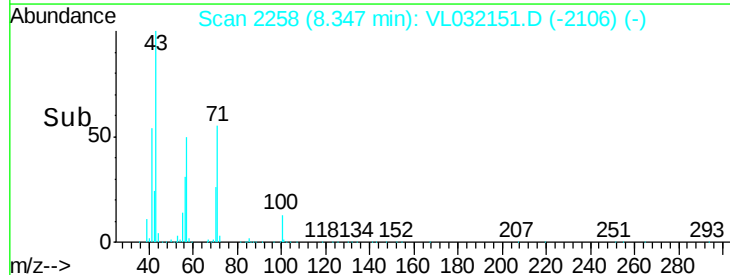
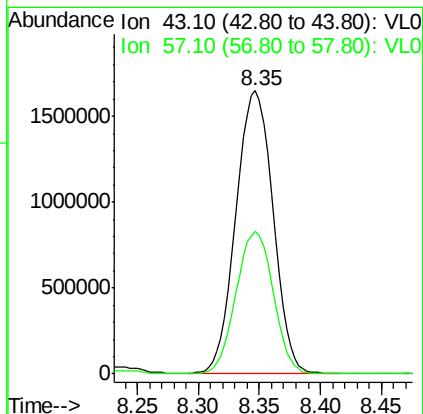
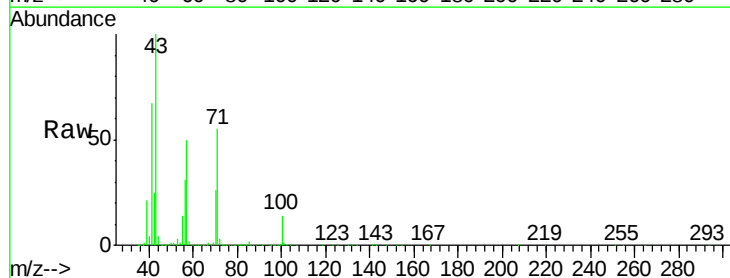
Acq: 29 Jun 2018 21:55

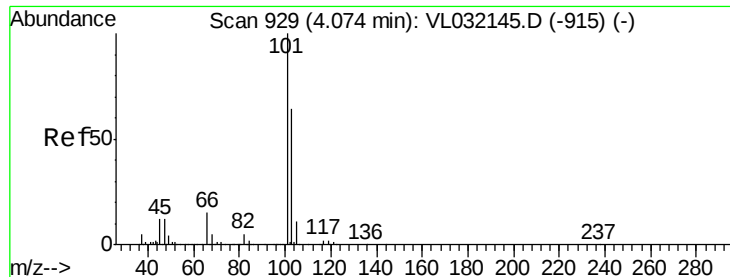
Tgt Ion: 43 Resp: 3467517

Ion Ratio Lower Upper

43 100

57 50.5 39.8 59.8





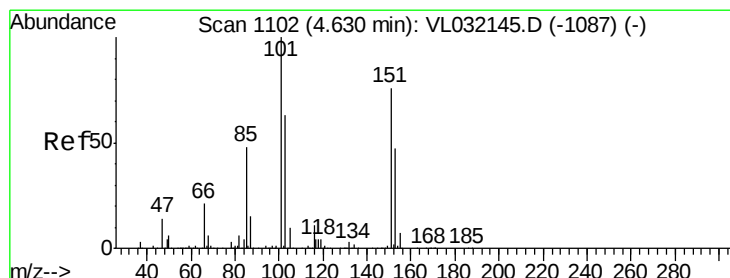
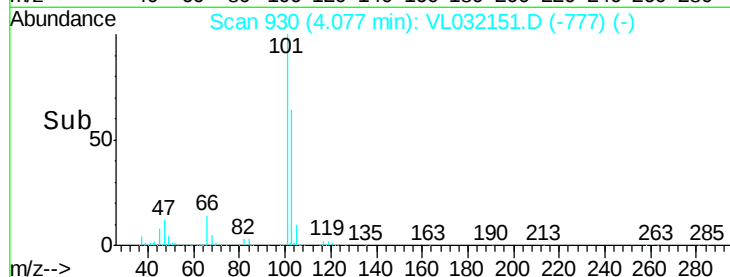
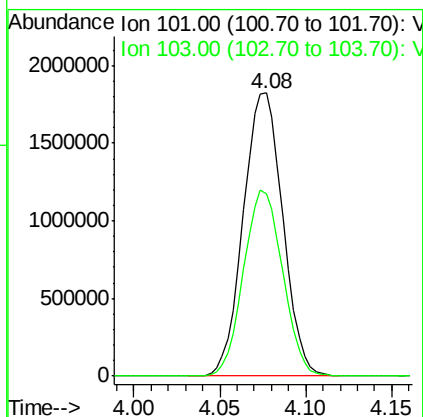
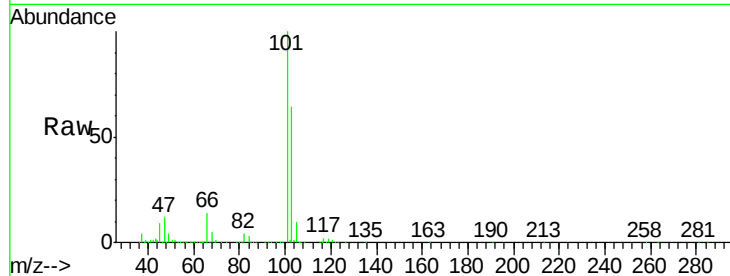
#11
 Trichlorofluoromethane
 Concen: 13.24 ppbv
 RT: 4.08 min Scan# 930
 Delta R.T. -0.01 min
 Lab File: VL032151.D
 Acq: 29 Jun 2018 21:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:101 Resp: 2912085
 Ion Ratio Lower Upper
 101 100
 103 64.2 51.4 77.0

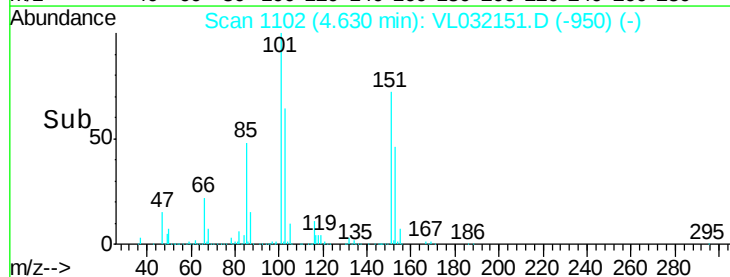
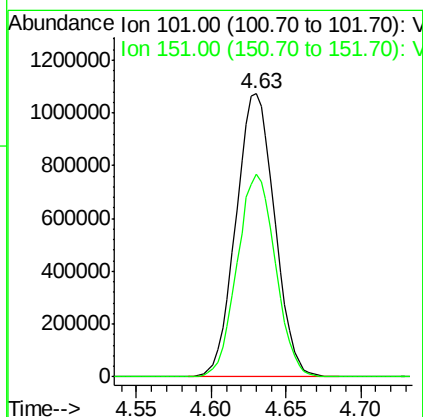
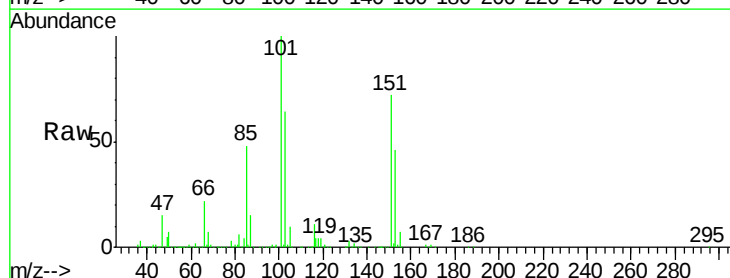
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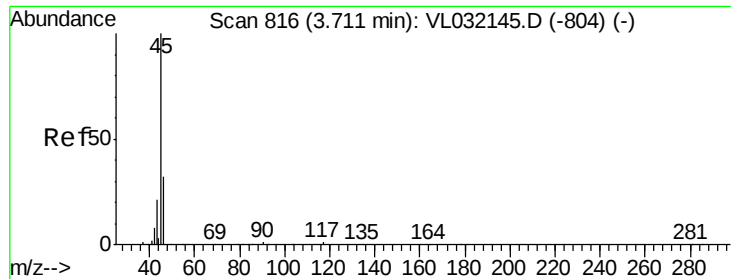
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 12.98 ppbv
 RT: 4.63 min Scan# 1102
 Delta R.T. -0.01 min
 Lab File: VL032151.D
 Acq: 29 Jun 2018 21:55

Tgt Ion:101 Resp: 1933051
 Ion Ratio Lower Upper
 101 100
 151 70.9 58.8 88.2





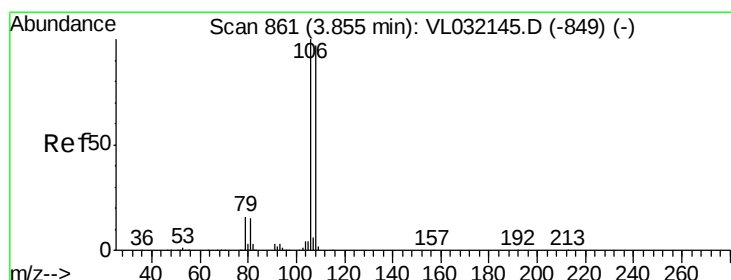
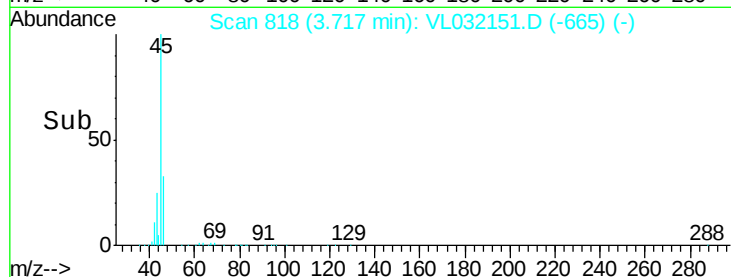
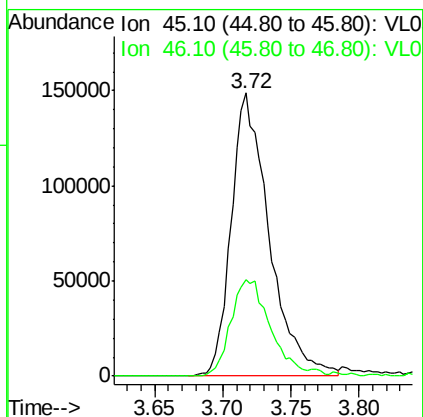
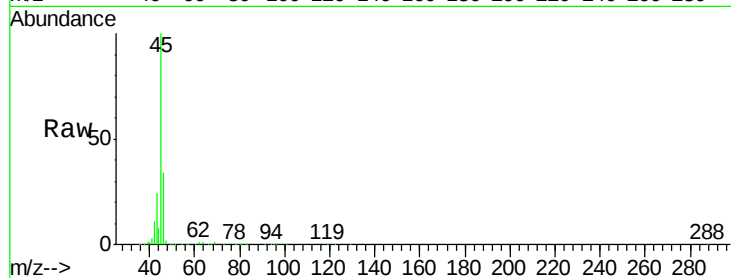
#13
Ethanol
Concen: 9.44 ppbv
RT: 3.72 min Scan# 818
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
45	100		
46	37.0	14.6	58.4

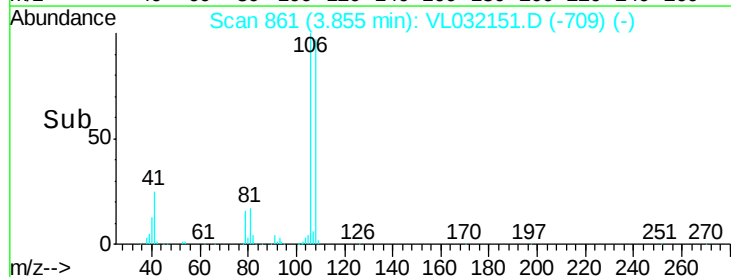
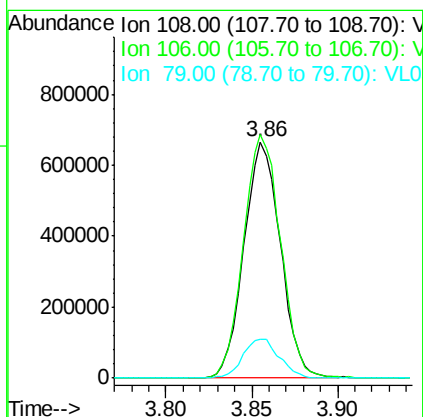
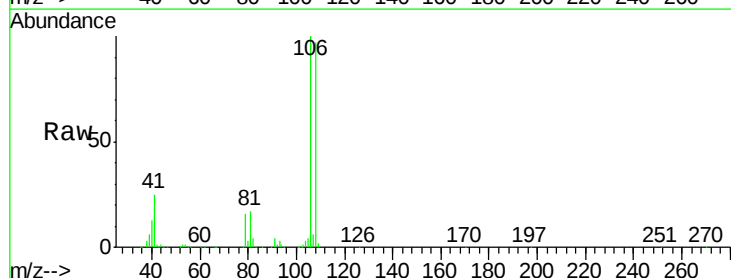
Manual Integrations
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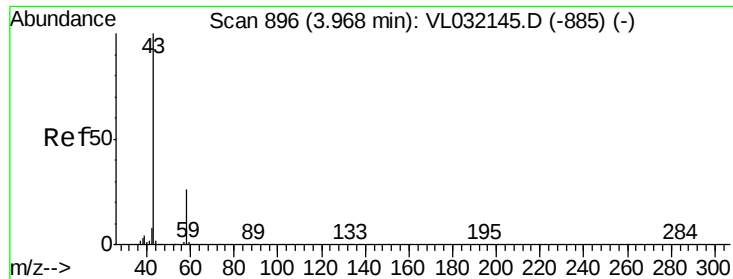
MMDadoda
7/2/2018 4:25:11 PM



#14
Bromoethene
Concen: 13.45 ppbv
RT: 3.86 min Scan# 861
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Tgt Ion	Ratio	Lower	Upper
108	100		
106	105.4	86.3	129.5
79	16.8	12.7	19.1





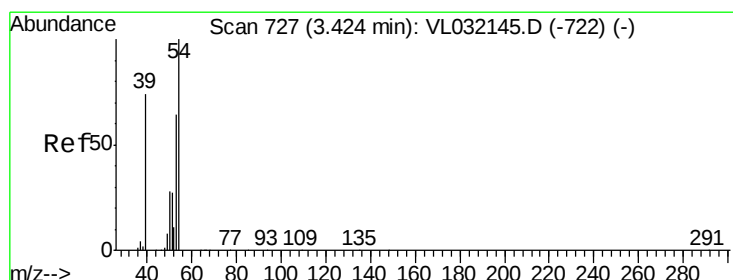
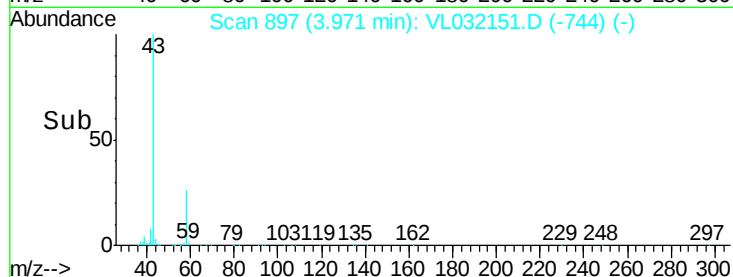
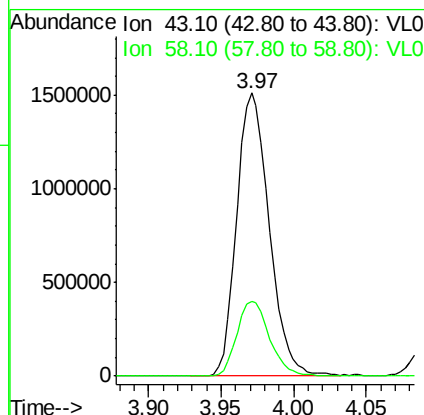
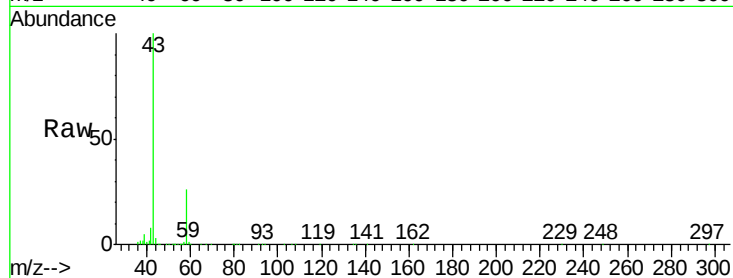
#15
Acetone
Concen: 11.12 ppbv
RT: 3.97 min Scan# 897
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 2352811
Ion Ratio Lower Upper
43 100
58 26.7 21.4 32.0

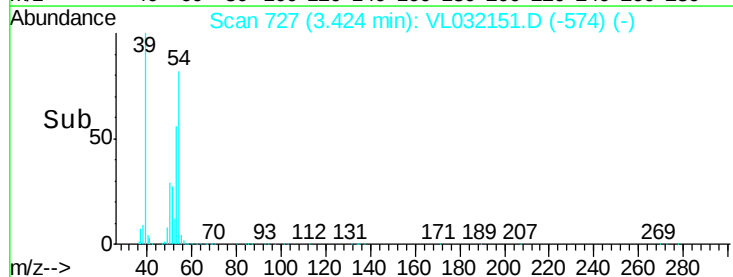
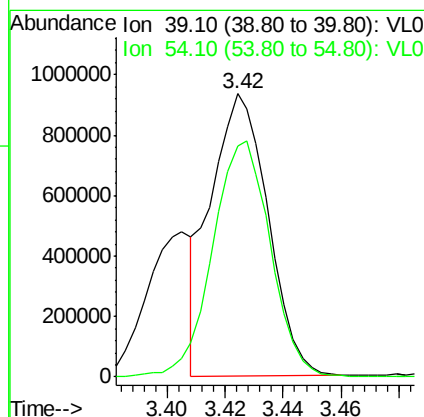
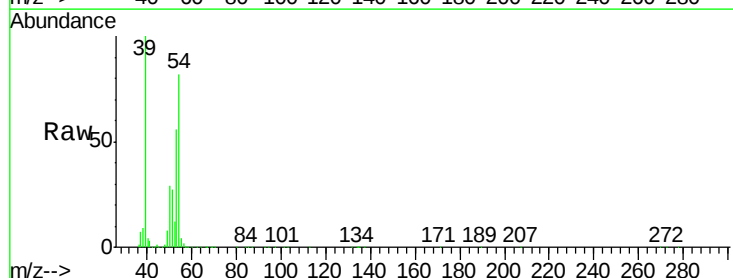
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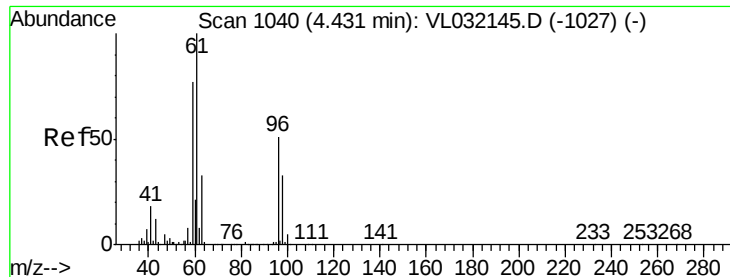
MMDadoda
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#16
1,3-Butadiene
Concen: 12.83 ppbv
RT: 3.42 min Scan# 727
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Tgt Ion: 39 Resp: 1275131
Ion Ratio Lower Upper
39 100
54 85.4 75.8 113.6





#17

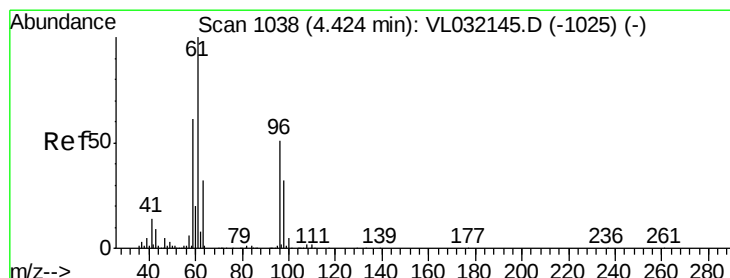
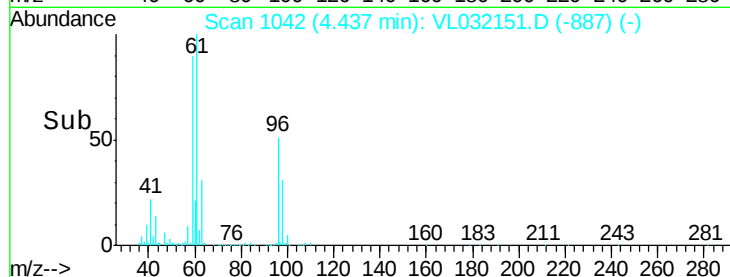
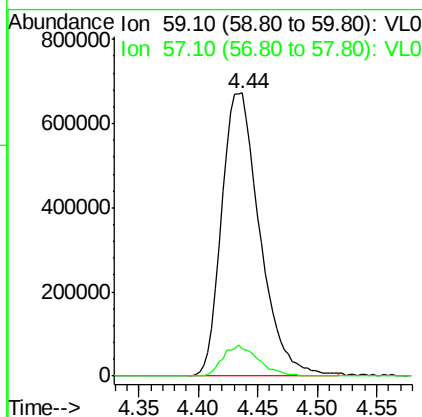
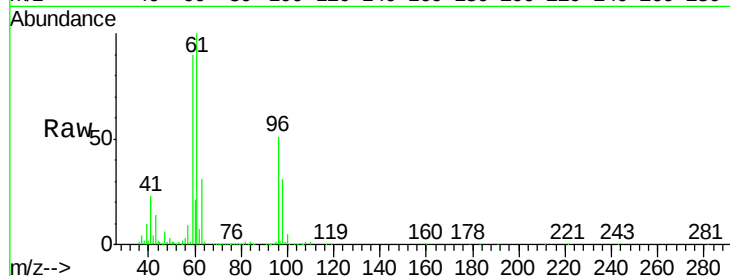
tert-Butyl alcohol
Concen: 11.76 ppbv
RT: 4.44 min Scan# 1042
Delta R.T. -0.00 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 59 Resp: 1495996
Ion Ratio Lower Upper
59 100
57 10.5 8.2 12.2

Manual Integrations
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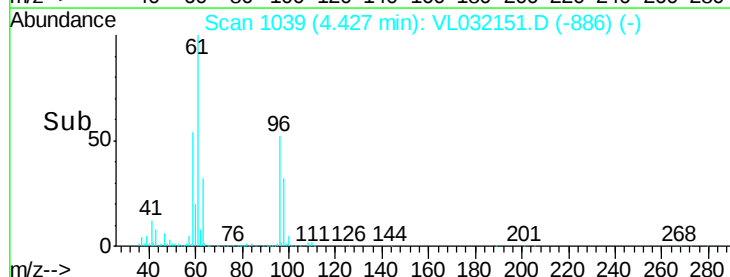
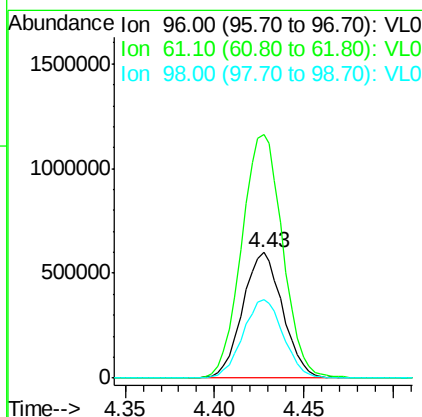
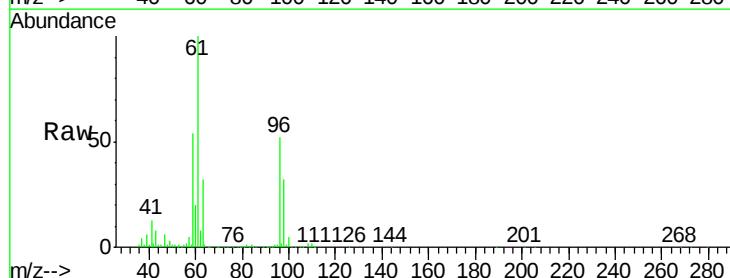
MMDadoda
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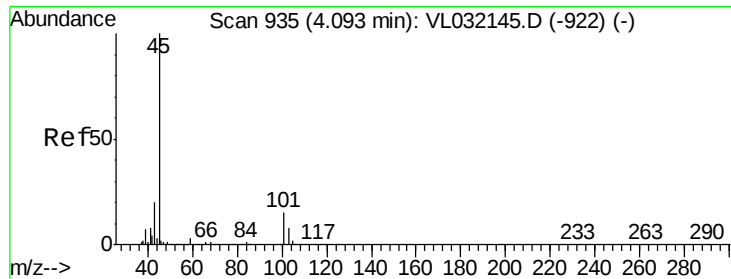


#18

1,1-Dichloroethene
Concen: 12.84 ppbv
RT: 4.43 min Scan# 1039
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Tgt Ion: 96 Resp: 939116
Ion Ratio Lower Upper
96 100
61 193.4 154.1 231.1
98 62.3 50.3 75.5





#19

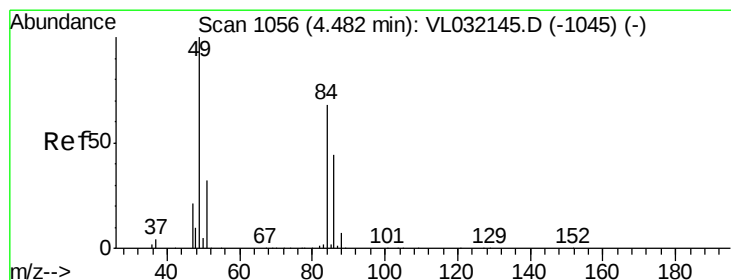
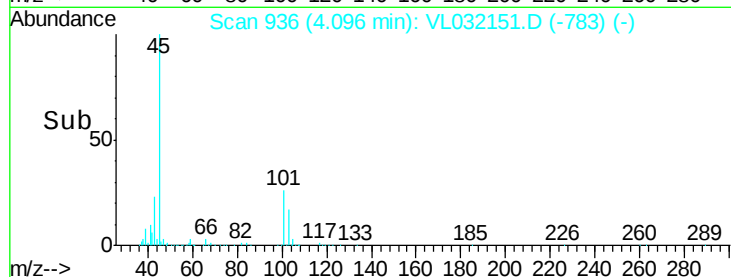
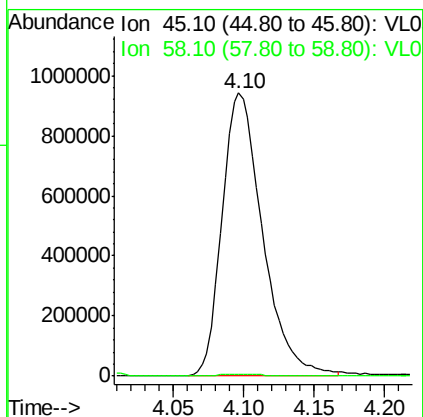
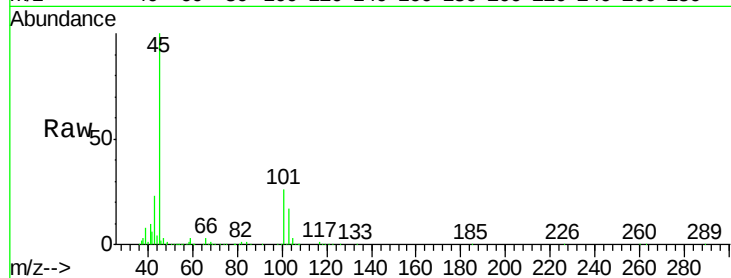
Isopropyl Alcohol
 Concen: 11.30 ppbv
 RT: 4.10 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VL032151.D
 Acq: 29 Jun 2018 21:55

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC015

Tot Ion: 45 Resp: 1876208
 Ion Ratio Lower Upper
 45 100
 58 33.4 29.4 44.0

Manual Integrations
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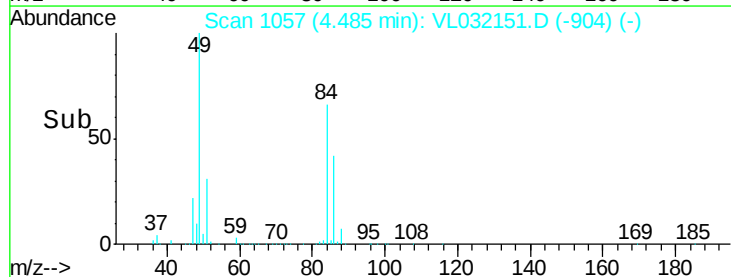
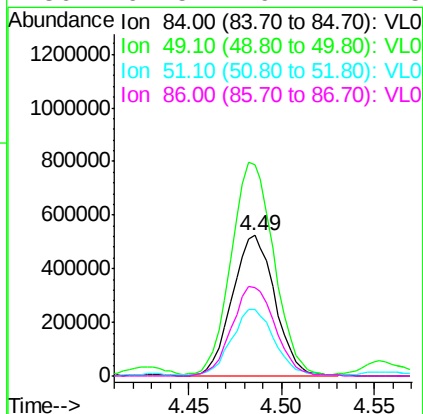
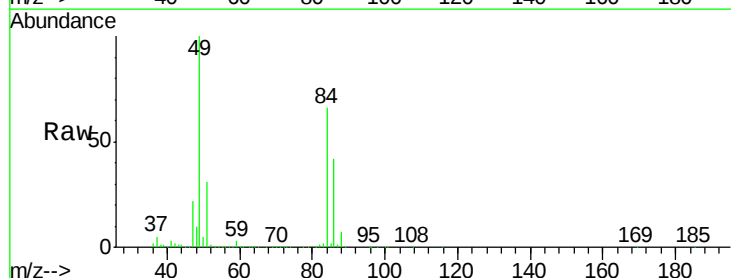
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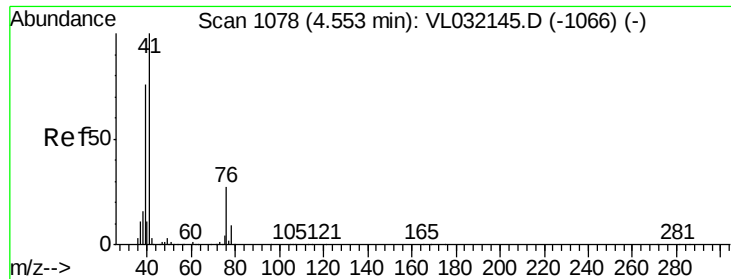


#20

Methylene Chloride
 Concen: 11.63 ppbv
 RT: 4.49 min Scan# 1057
 Delta R.T. -0.01 min
 Lab File: VL032151.D
 Acq: 29 Jun 2018 21:55

Tgt Ion: 84 Resp: 831285
 Ion Ratio Lower Upper
 84 100
 49 149.6 119.6 179.4
 51 46.8 36.3 54.5
 86 62.5 49.7 74.5





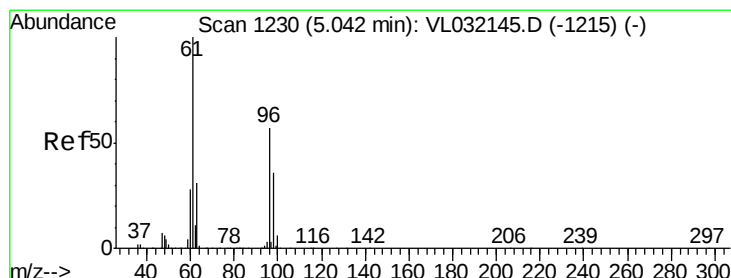
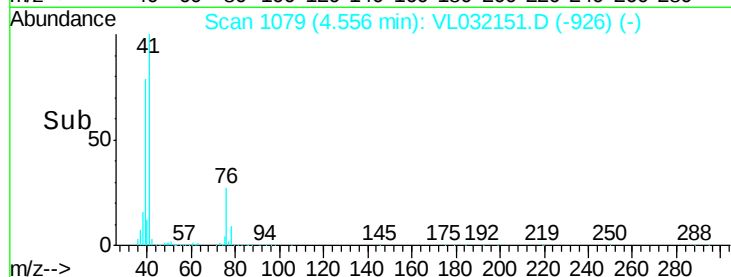
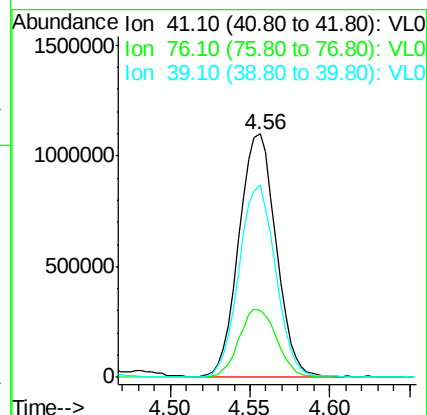
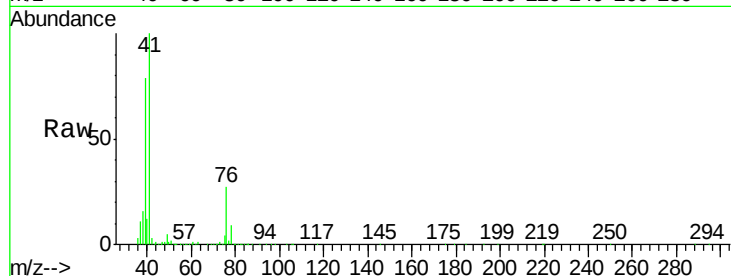
#21
Allvl Chloride
Concen: 13.12 ppbv
RT: 4.56 min Scan# 1079
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.8	22.5	33.7
39	78.8	60.5	90.7

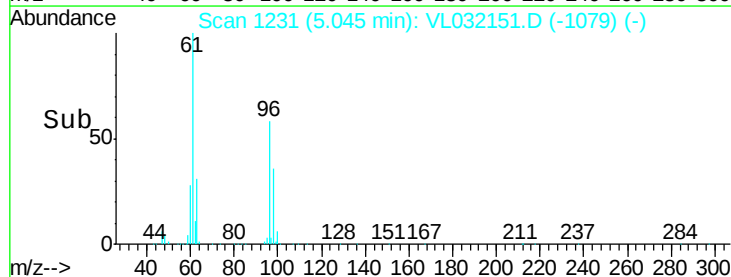
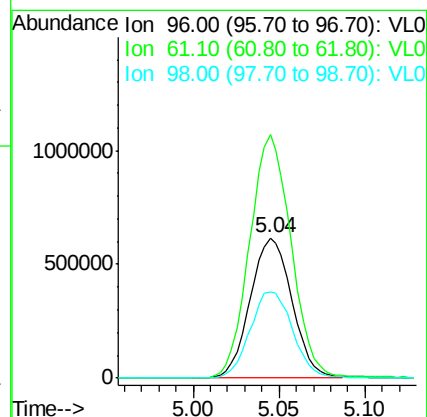
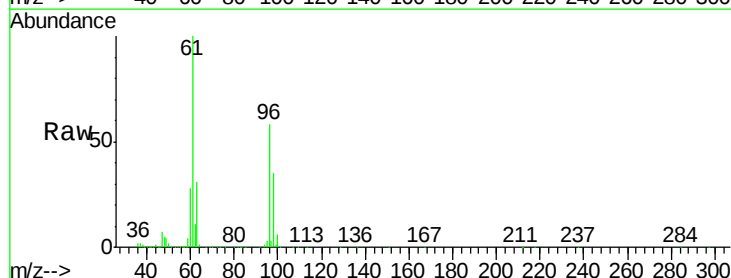
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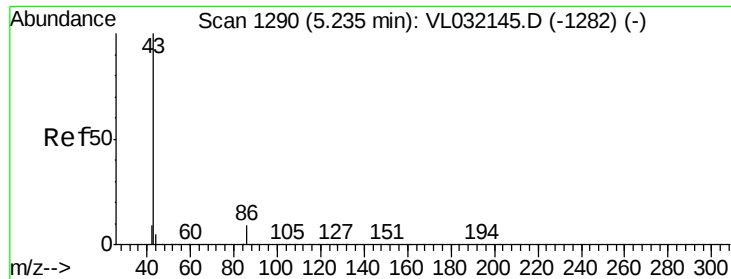
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#22
trans-1,2-Dichloroethene
Concen: 13.93 ppbv
RT: 5.04 min Scan# 1231
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Tgt Ion	Ratio	Lower	Upper
96	100		
61	173.8	135.2	202.8
98	61.3	49.7	74.5





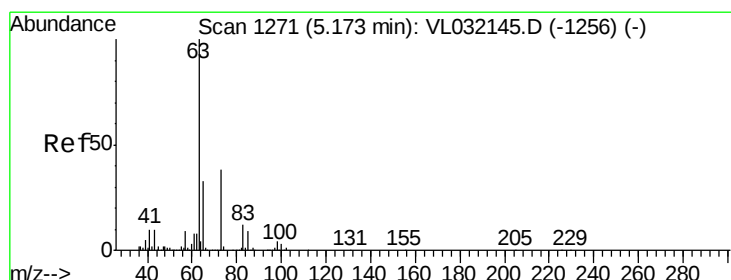
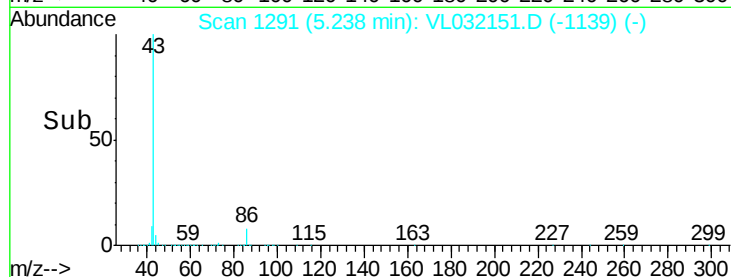
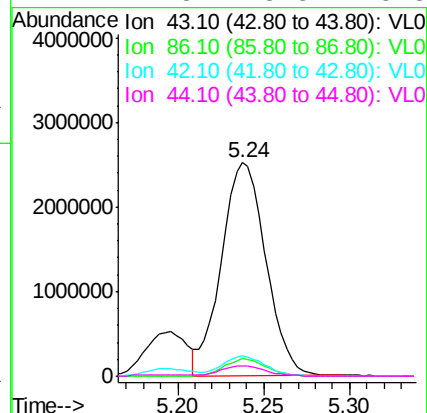
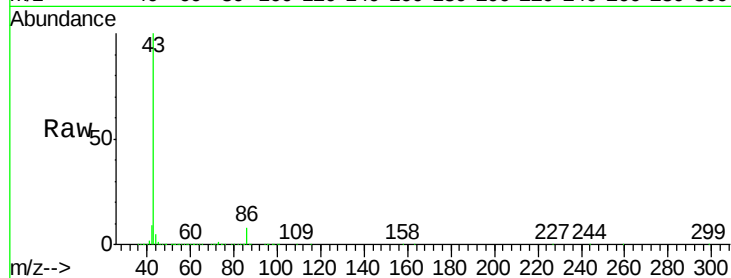
#23
 Vinyl Acetate
 Concen: 14.05 ppbv
 RT: 5.24 min Scan# 1291
 Delta R.T. -0.01 min
 Lab File: VL032151.D
 Acq: 29 Jun 2018 21:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	43	Resp	4524003
Ion	Ratio	Lower	Upper
43	100		
86	8.4	6.2	9.4
42	9.5	6.9	10.3
44	4.8	3.8	5.8

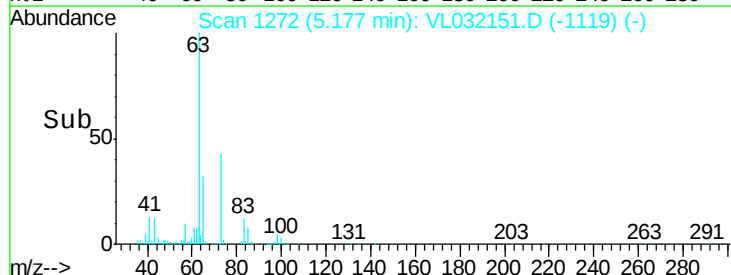
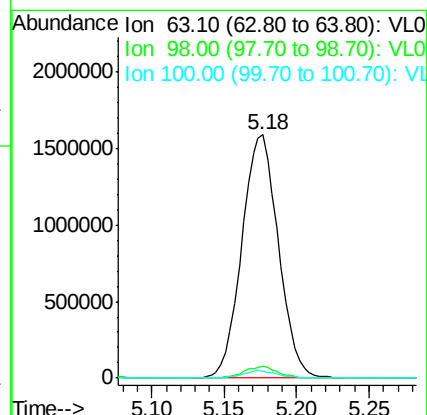
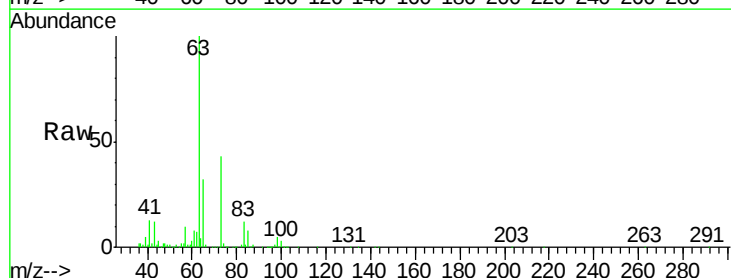
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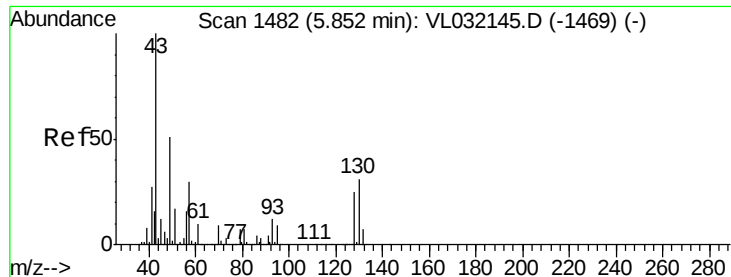
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#24
 1,1-Dichloroethane
 Concen: 11.45 ppbv
 RT: 5.18 min Scan# 1272
 Delta R.T. -0.01 min
 Lab File: VL032151.D
 Acq: 29 Jun 2018 21:55

Tgt Ion	63	Resp	2774827
Ion	Ratio	Lower	Upper
63	100		
98	4.6	2.4	7.2
100	2.8	1.7	5.0





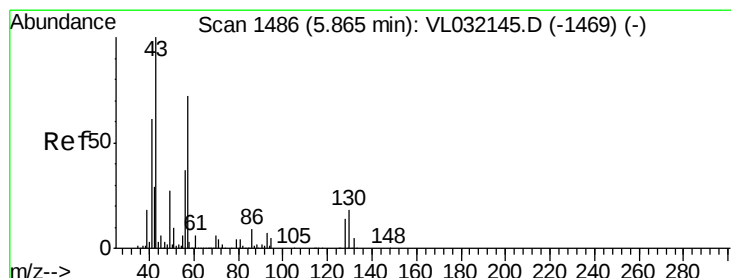
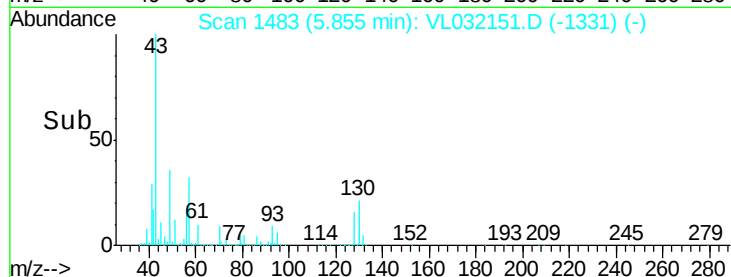
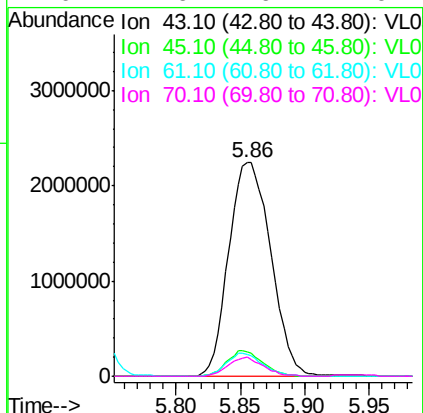
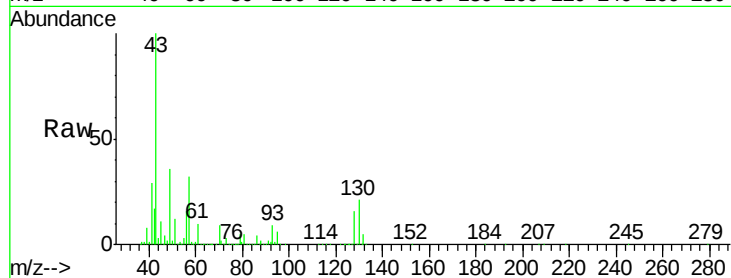
#25
Ethyl Acetate
Concen: 10.94 ppbv
RT: 5.86 min Scan# 1483
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	43	Resp	5075165
Ion	Ratio	Lower	Upper
43	100		
45	10.1	7.8	11.8
61	9.3	7.4	11.0
70	7.6	6.1	9.1

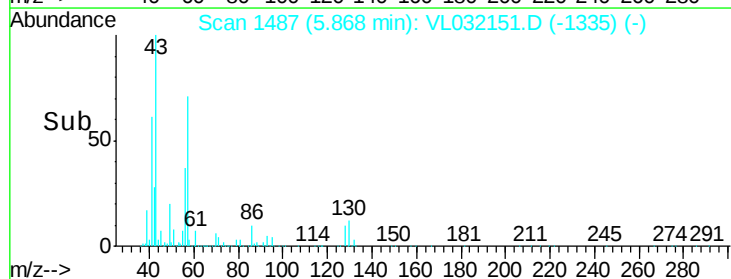
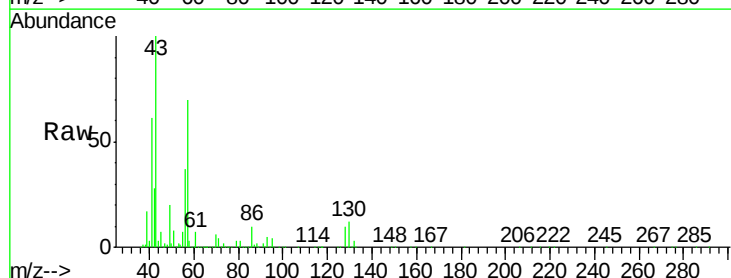
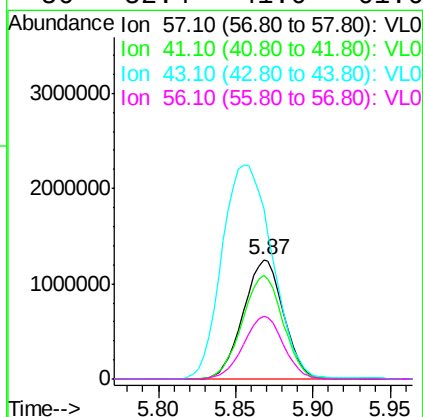
Manual Integrations
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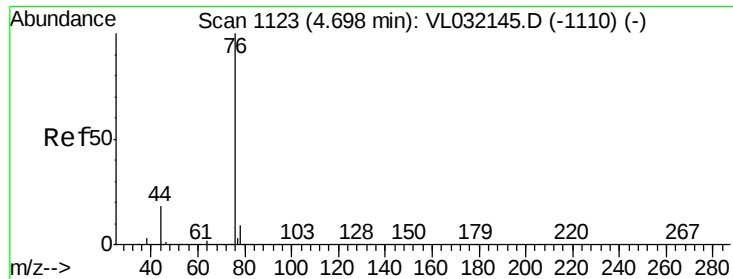
MMDadoda
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#26
Hexane
Concen: 11.05 ppbv
RT: 5.87 min Scan# 1487
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Tgt Ion	57	Resp	2273245
Ion	Ratio	Lower	Upper
57	100		
41	87.6	68.6	103.0
43	224.2	168.6	252.8
56	52.4	41.0	61.6





#27

Carbon Disulfide

Concen: 12.06 ppbv

RT: 4.70 min Scan# 1123

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 2479439

Ion Ratio Lower Upper

76 100

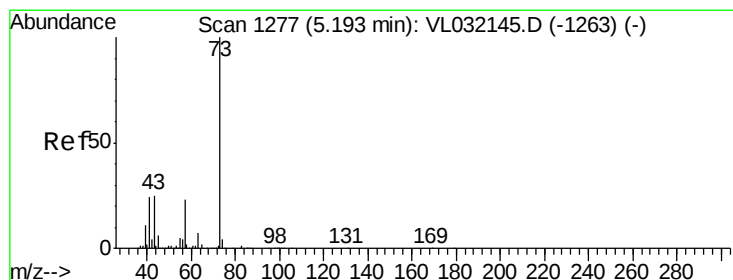
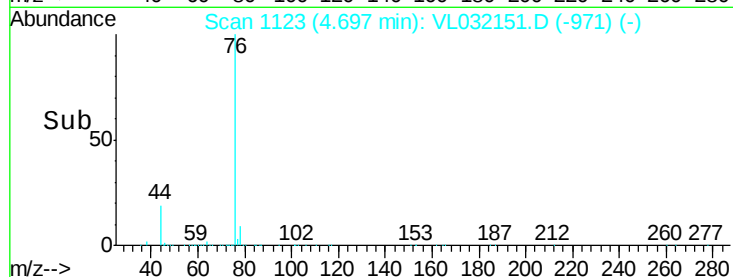
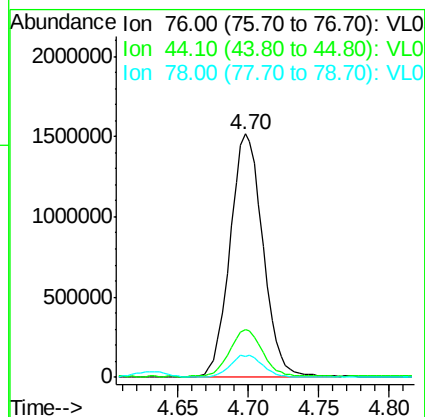
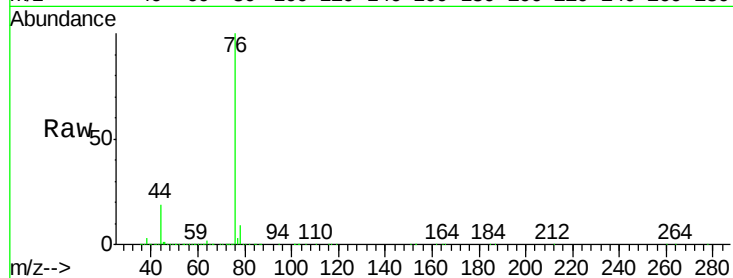
44 19.3 15.1 22.7

78 9.3 7.2 10.8

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 15.07 ppbv

RT: 5.19 min Scan# 1277

Delta R.T. -0.01 min

Lab File: VL032151.D

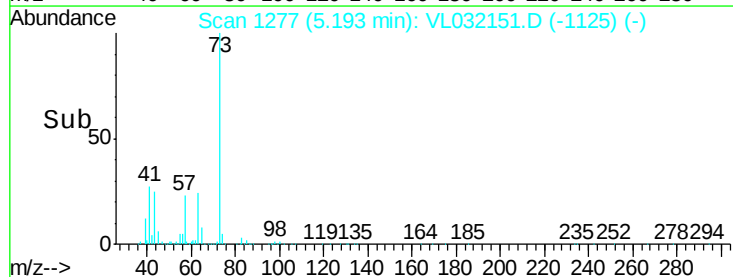
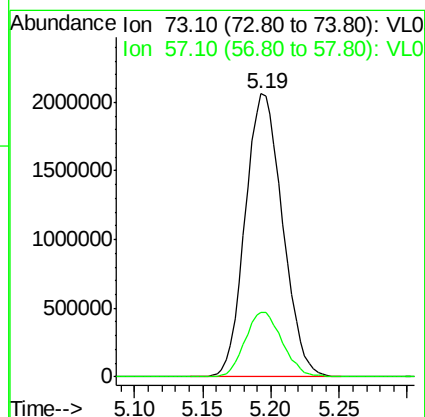
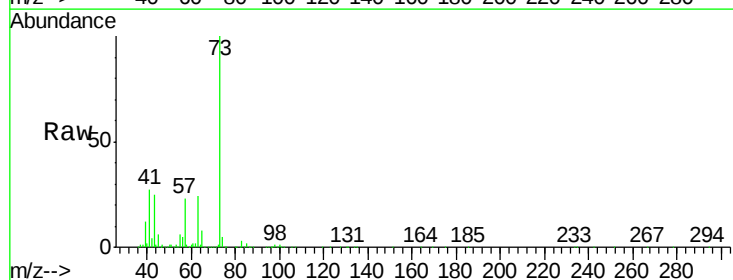
Acq: 29 Jun 2018 21:55

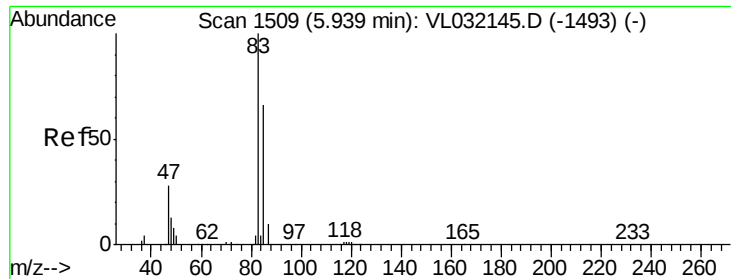
Tgt Ion: 73 Resp: 3920528

Ion Ratio Lower Upper

73 100

57 23.1 18.6 27.8





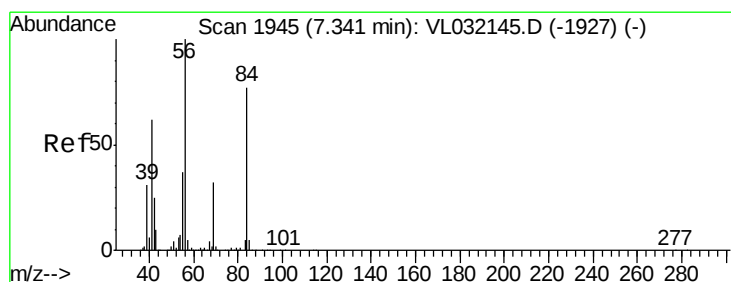
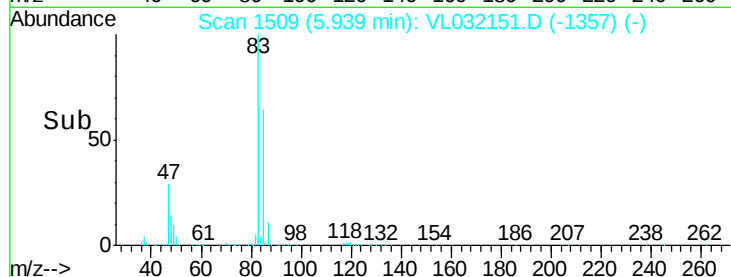
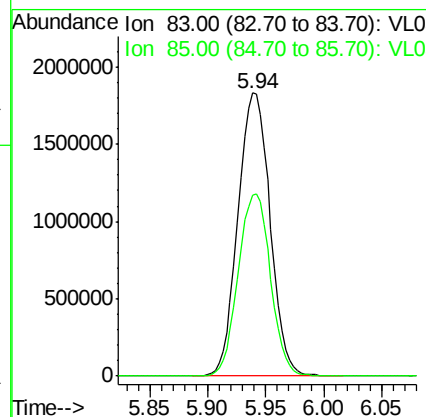
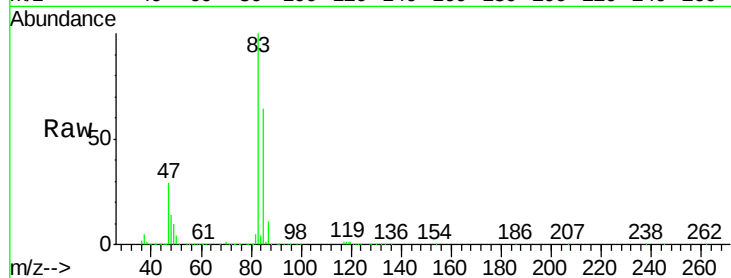
#29
Chloroform
Concen: 13.00 ppbv
RT: 5.94 min Scan# 1509
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 3530125
Ion Ratio Lower Upper
83 100
85 63.8 51.6 77.4

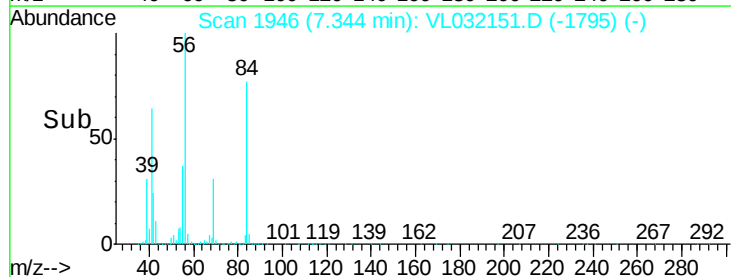
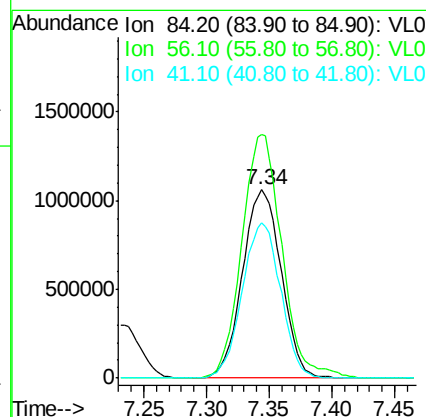
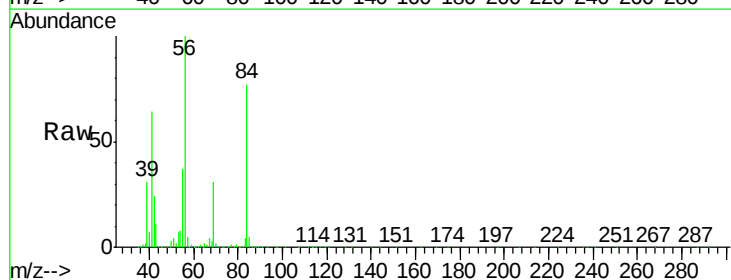
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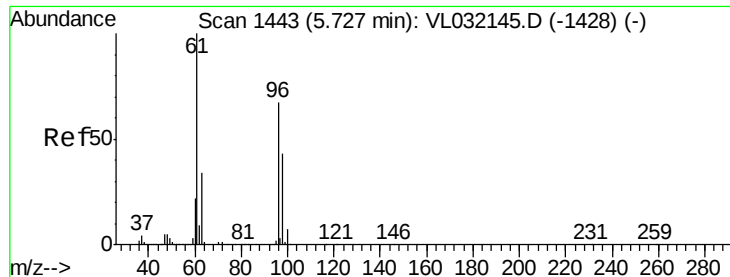
MMDadoda
7/2/2018 4:25:11 PM



#30
Cyclohexane
Concen: 13.45 ppbv
RT: 7.34 min Scan# 1946
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Tgt Ion: 84 Resp: 2277316
Ion Ratio Lower Upper
84 100
56 133.9 109.1 163.7
41 81.9 64.6 96.8





#31

cis-1,2-Dichloroethene

Concen: 13.48 ppbv

RT: 5.73 min Scan# 1444

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 61 Resp: 2468194

Ion Ratio Lower Upper

61 100

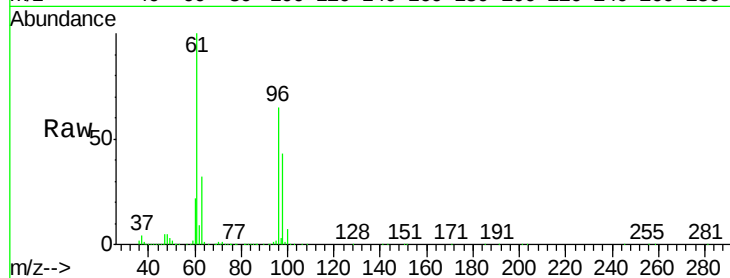
96 65.2 54.2 81.4

98 42.6 34.6 52.0

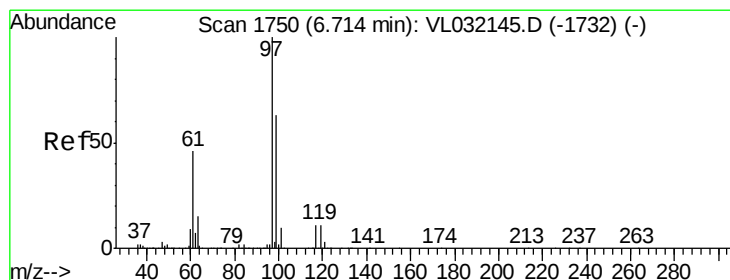
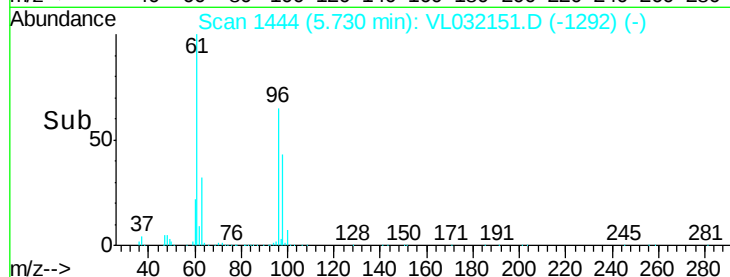
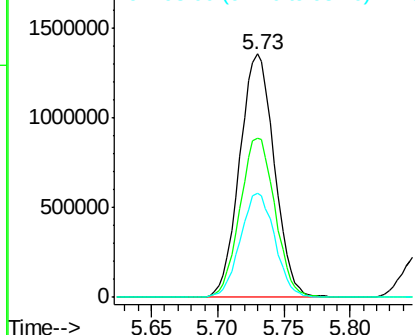
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Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 12.90 ppbv

RT: 6.71 min Scan# 1750

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

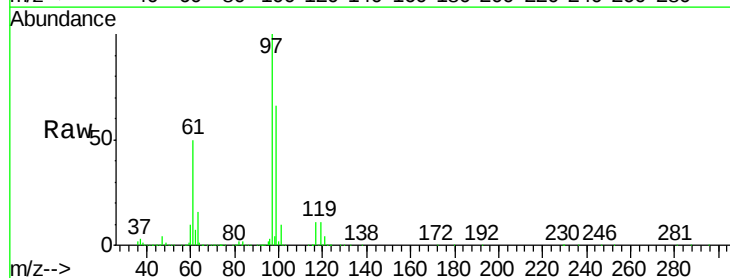
Tgt Ion: 97 Resp: 3650151

Ion Ratio Lower Upper

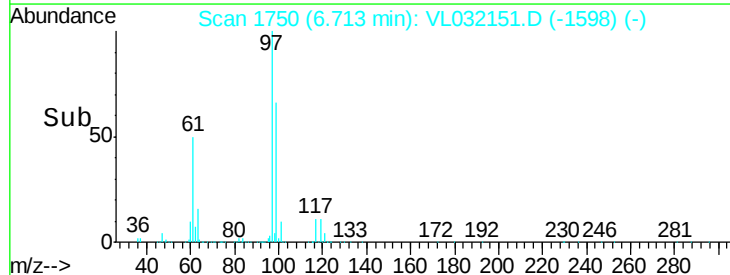
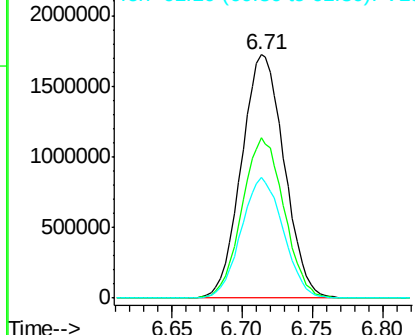
97 100

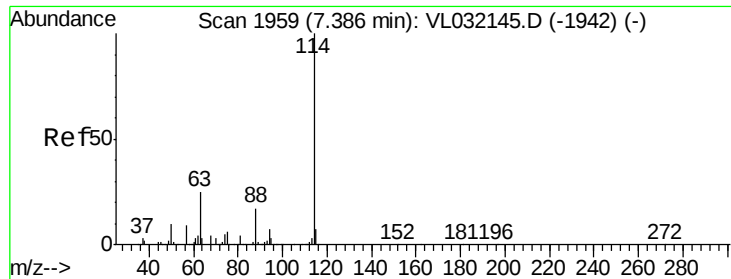
99 65.0 51.3 76.9

61 49.0 38.4 57.6



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0





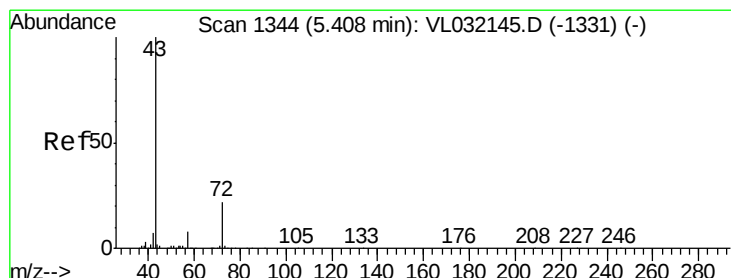
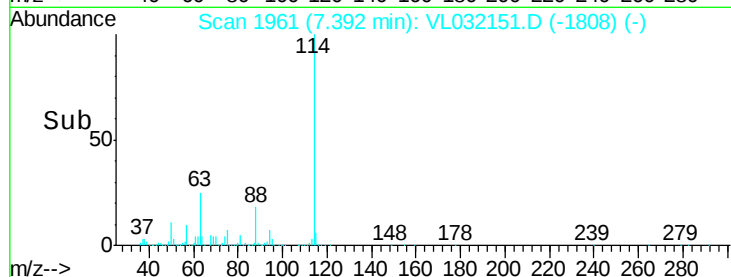
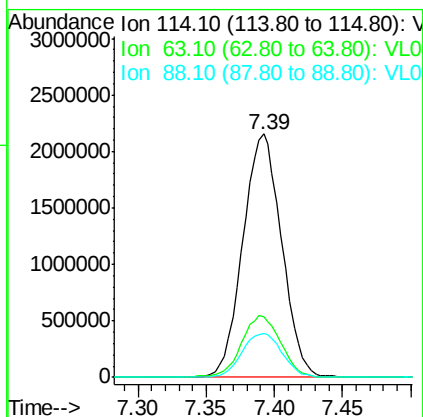
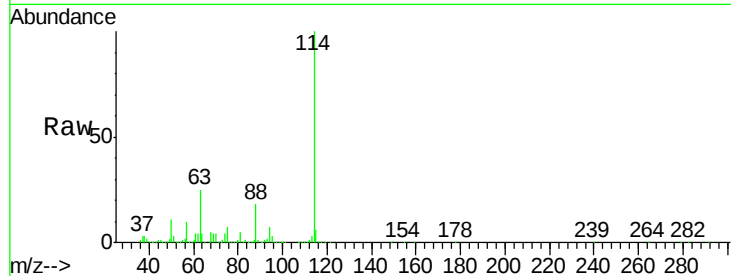
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.39 min Scan# 1961
 Delta R.T. -0.01 min
 Lab File: VL032151.D
 Acq: 29 Jun 2018 21:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.9	19.1	28.7
88	18.8	13.9	20.9

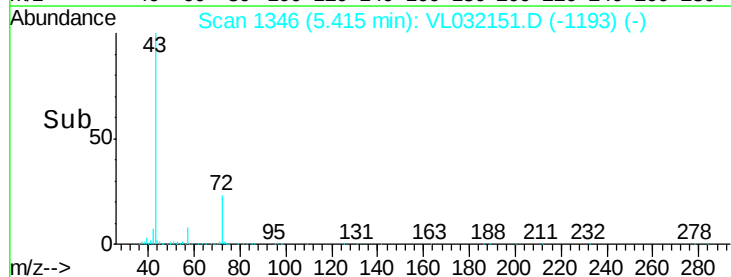
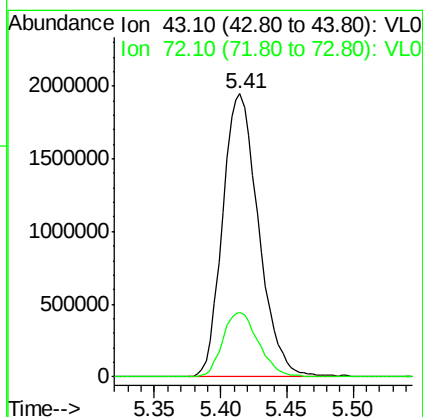
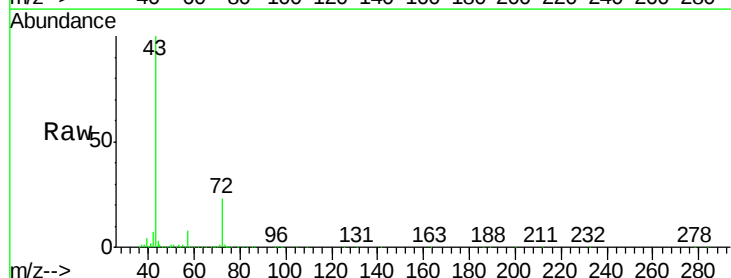
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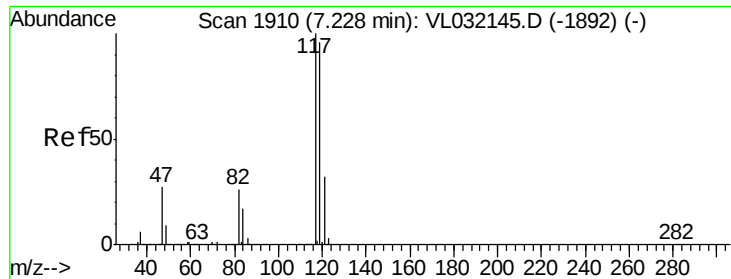
MMDadoda
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#34
 2-Butanone
 Concen: 10.56 ppbv
 RT: 5.41 min Scan# 1346
 Delta R.T. -0.01 min
 Lab File: VL032151.D
 Acq: 29 Jun 2018 21:55

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.2	18.4	27.6





#35

Carbon Tetrachloride

Concen: 12.88 ppbv

RT: 7.23 min Scan# 1911

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 3793204

Ion Ratio Lower Upper

117 100

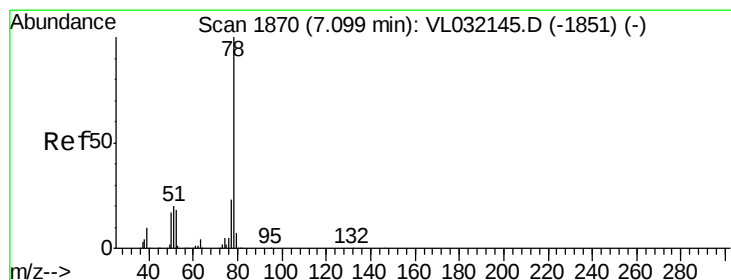
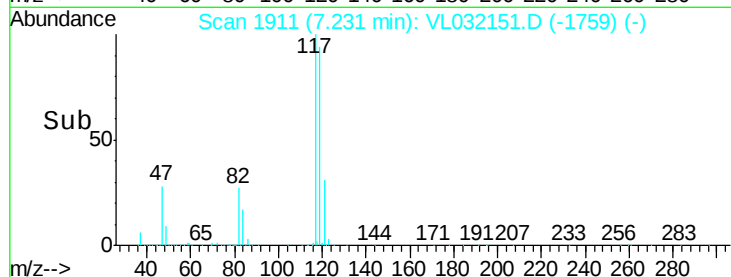
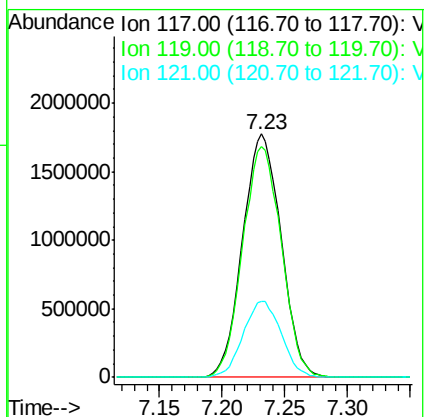
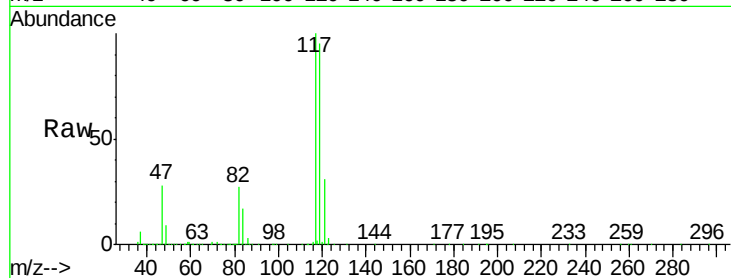
119 94.6 74.8 112.2

121 31.2 24.0 36.0

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#36

Benzene

Concen: 11.83 ppbv

RT: 7.10 min Scan# 1871

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

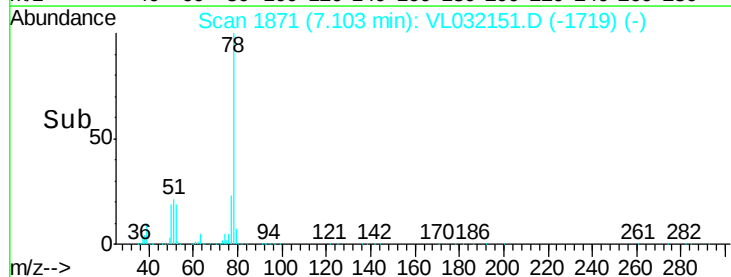
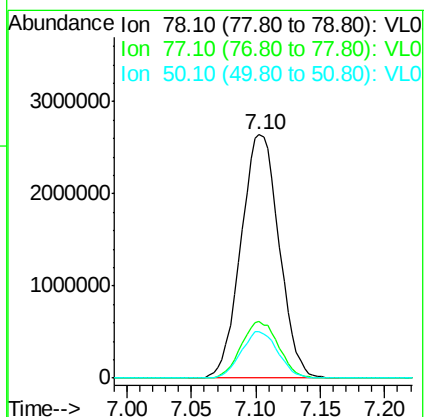
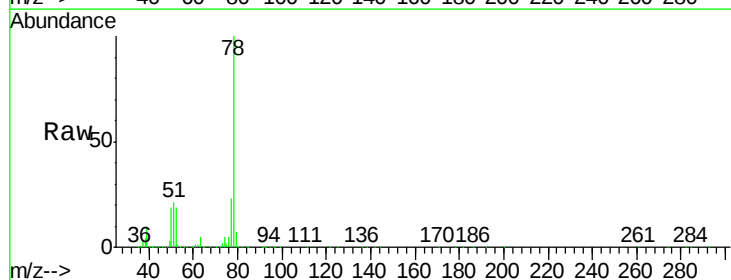
Tgt Ion: 78 Resp: 5439646

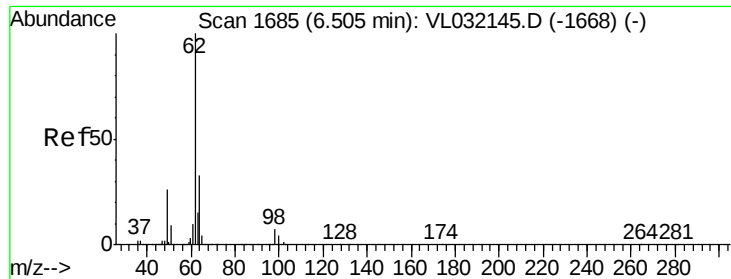
Ion Ratio Lower Upper

78 100

77 23.5 17.7 26.5

50 18.8 14.0 21.0





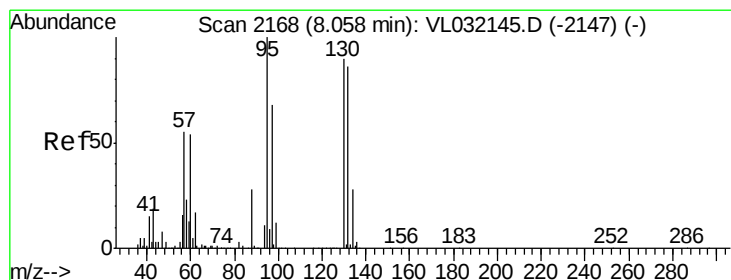
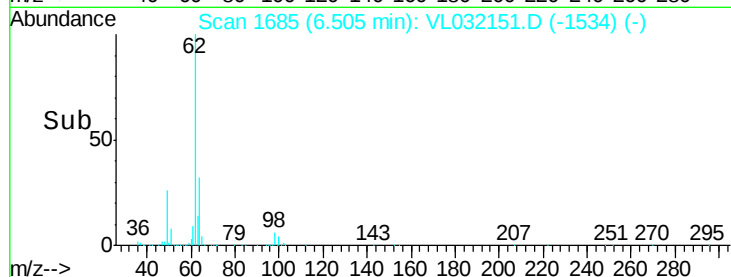
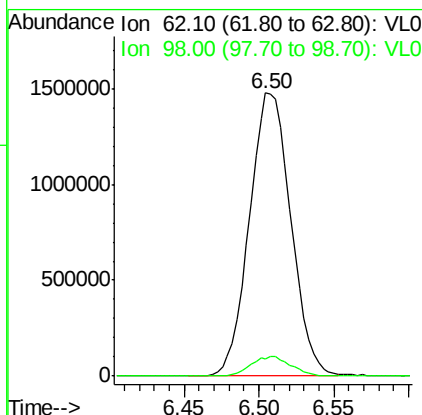
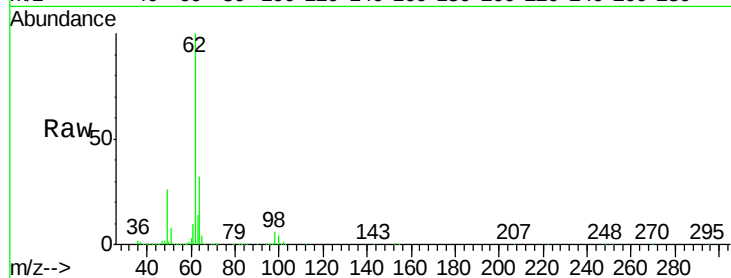
#37
 1,2-Dichloroethane
 Concen: 12.05 ppbv
 RT: 6.50 min Scan# 1685
 Delta R.T. -0.01 min
 Lab File: VL032151.D
 Acq: 29 Jun 2018 21:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 62 Resp: 2850968
 Ion Ratio Lower Upper
 62 100
 98 6.8 5.8 8.6

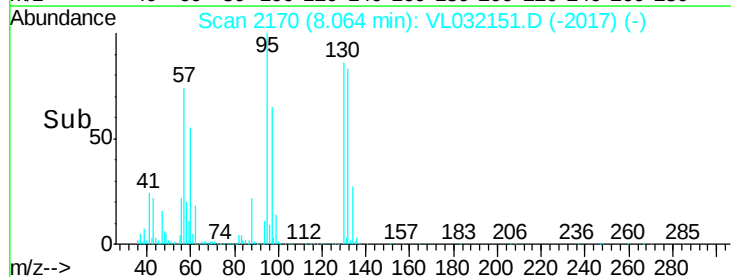
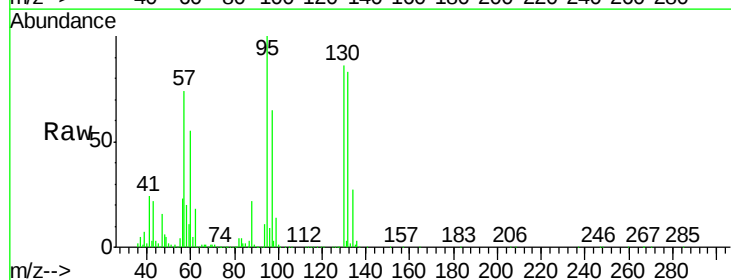
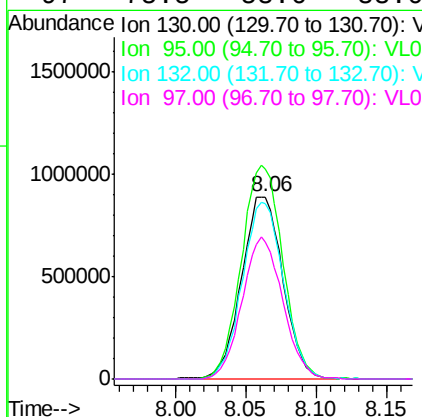
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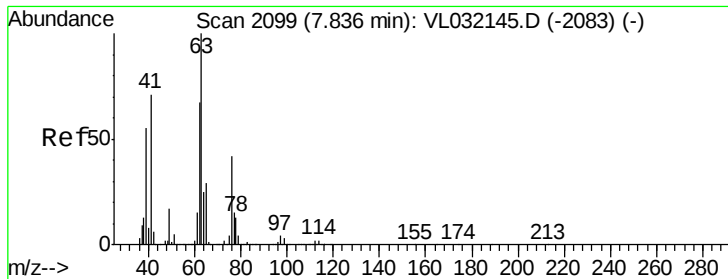
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#38
 Trichloroethene
 Concen: 10.24 ppbv
 RT: 8.06 min Scan# 2170
 Delta R.T. -0.01 min
 Lab File: VL032151.D
 Acq: 29 Jun 2018 21:55

Tgt Ion:130 Resp: 1816187
 Ion Ratio Lower Upper
 130 100
 95 116.0 88.1 132.1
 132 96.3 74.6 112.0
 97 75.5 58.6 88.0





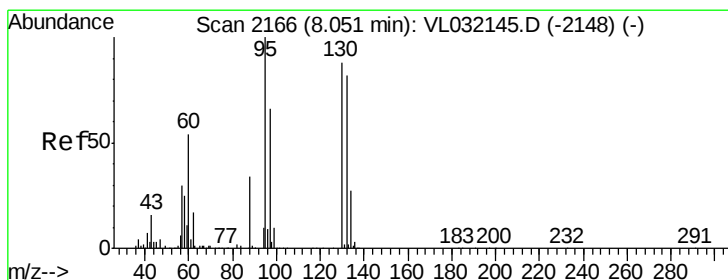
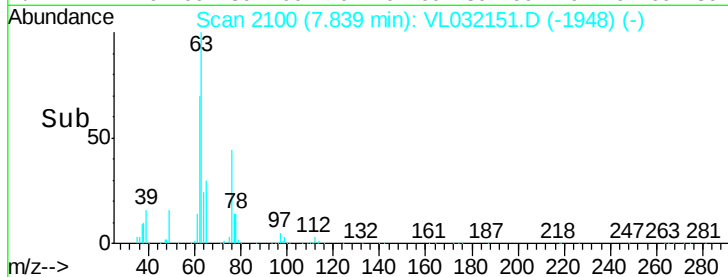
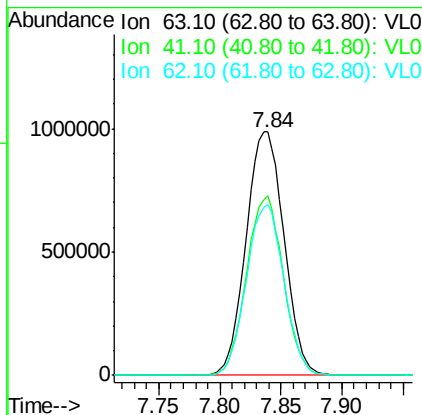
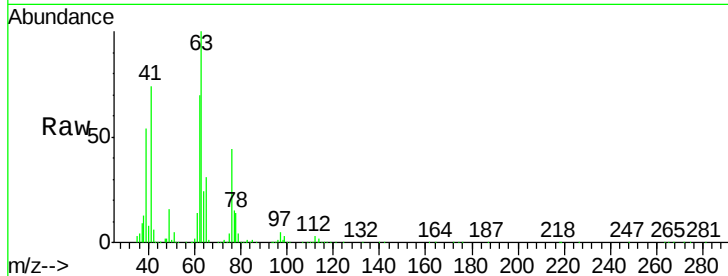
#39
 1,2-Dichloropropane
 Concen: 12.54 ppbv
 RT: 7.84 min Scan# 2100
 Delta R.T. -0.01 min
 Lab File: VL032151.D
 Acq: 29 Jun 2018 21:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
63	100		
41	73.4	53.3	79.9
62	70.1	54.8	82.2

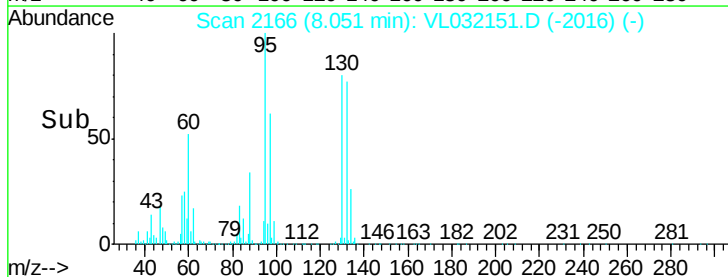
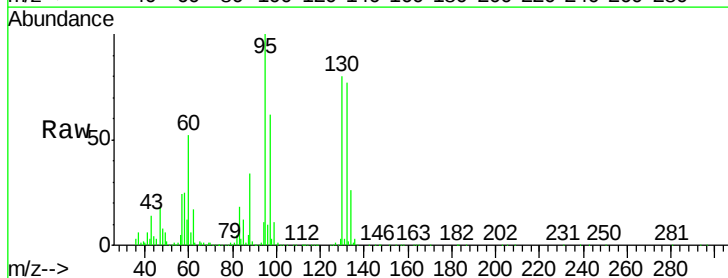
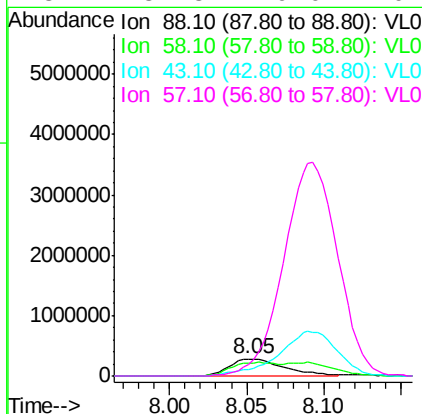
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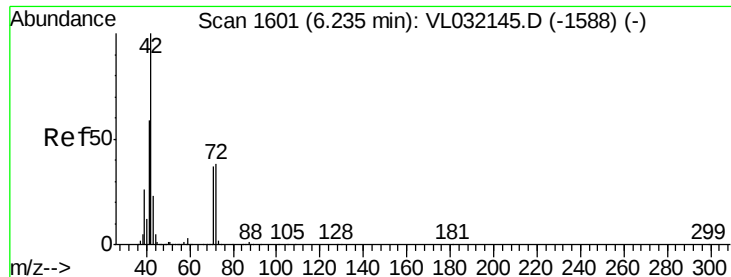
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#40
 1,4-Dioxane
 Concen: 8.74 ppbv
 RT: 8.05 min Scan# 2166
 Delta R.T. -0.02 min
 Lab File: VL032151.D
 Acq: 29 Jun 2018 21:55

Tgt Ion	Ratio	Lower	Upper
88	100		
58	139.5	47.4	71.0#
43	283.2	0.0	0.0#
57	1252.5	0.0	0.0#





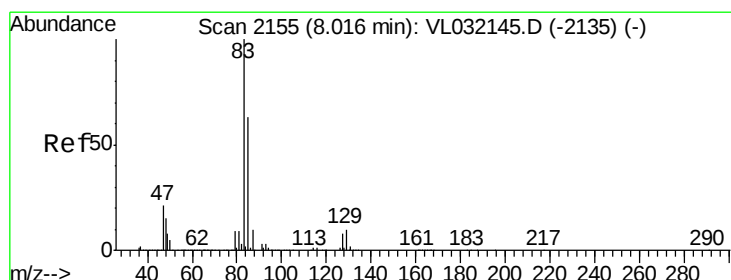
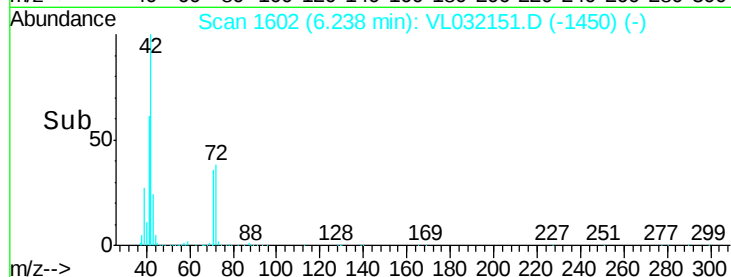
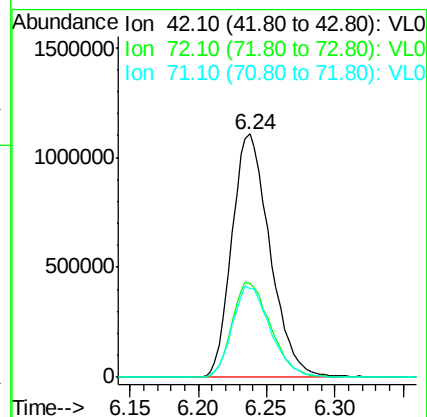
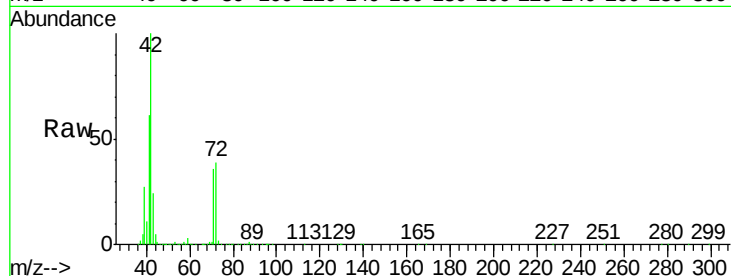
#41
Tetrahydrofuran
Concen: 10.46 ppbv
RT: 6.24 min Scan# 1602
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.6	31.1	46.7
71	37.6	29.5	44.3

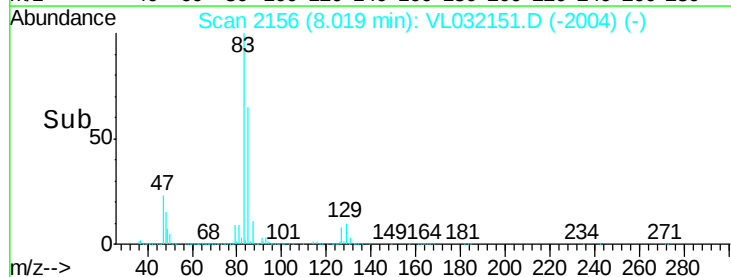
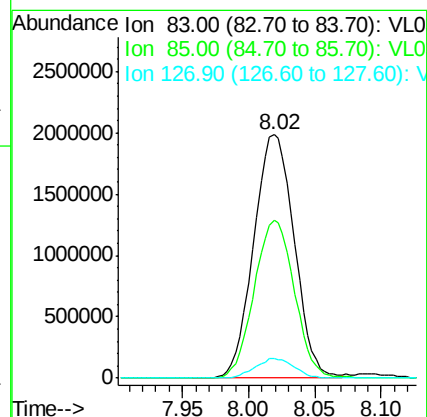
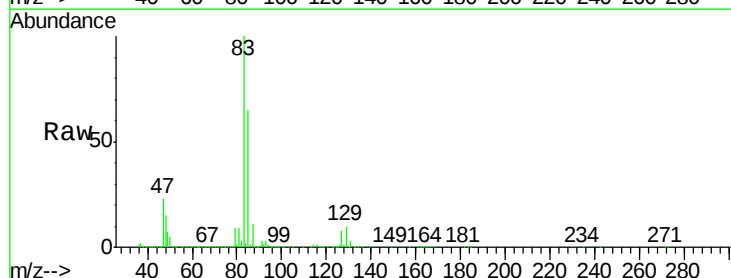
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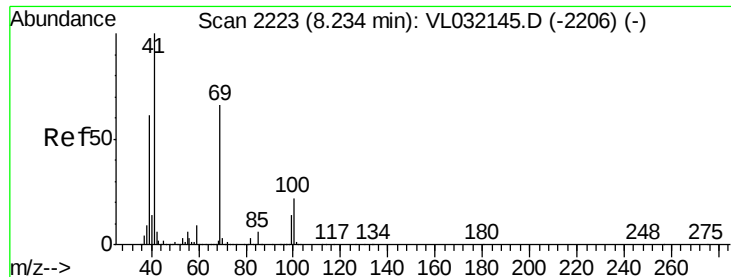
MMDadoda
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#42
Bromodichloromethane
Concen: 13.20 ppbv
RT: 8.02 min Scan# 2156
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.0	52.6	79.0
127	8.0	6.5	9.7





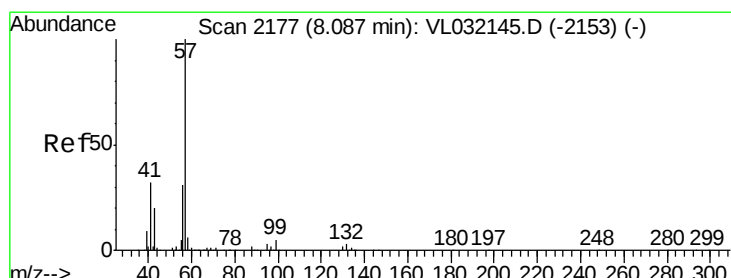
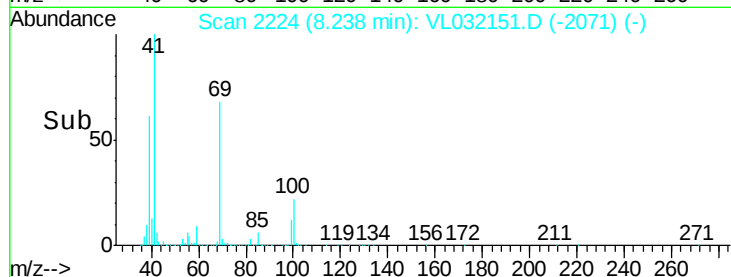
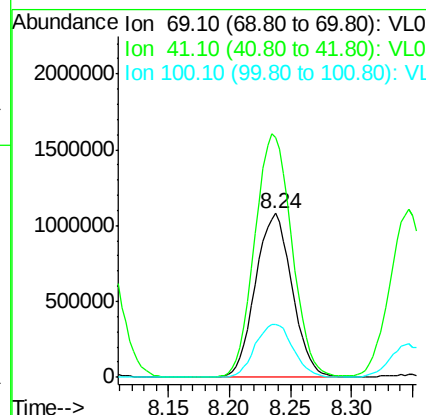
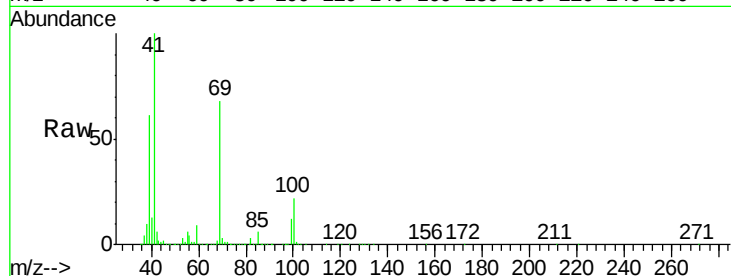
#43
Methyl Methacrylate
Concen: 12.35 ppbv
RT: 8.24 min Scan# 2224
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 69 Resp: 2246607
Ion Ratio Lower Upper
69 100
41 150.2 118.2 177.4
100 33.6 27.4 41.2

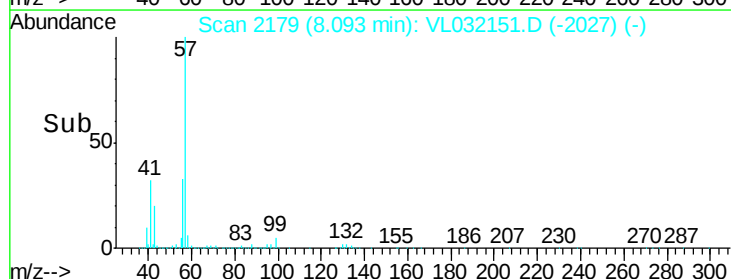
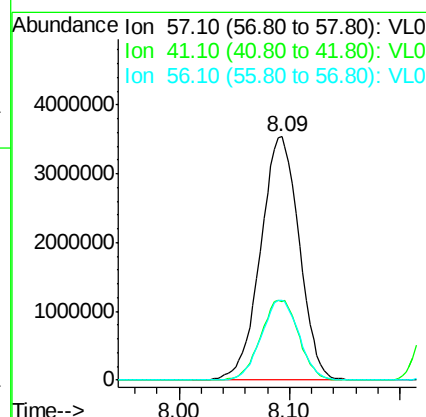
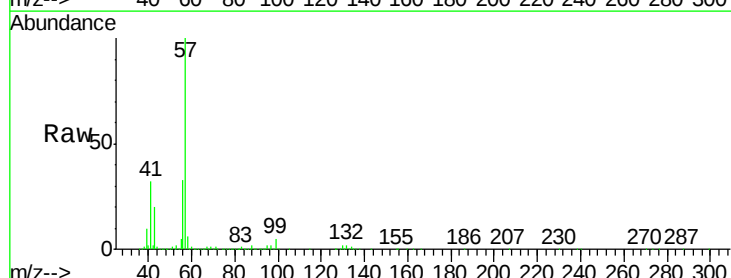
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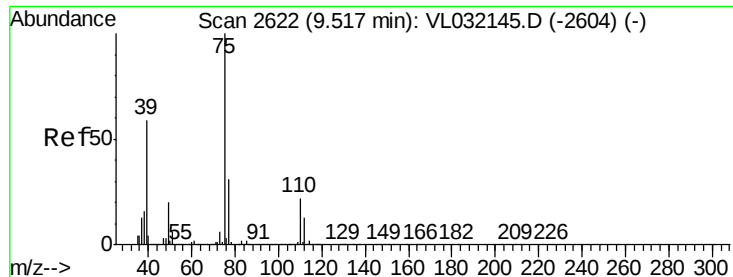
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 11.38 ppbv
RT: 8.09 min Scan# 2179
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Tgt Ion: 57 Resp: 8593676
Ion Ratio Lower Upper
57 100
41 32.2 24.3 36.5
56 31.9 25.1 37.7





#45

t-1,3-Dichloropropene

Concen: 13.55 ppbv

RT: 9.52 min Scan# 2623

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 75 Resp: 3049917

Ion Ratio Lower Upper

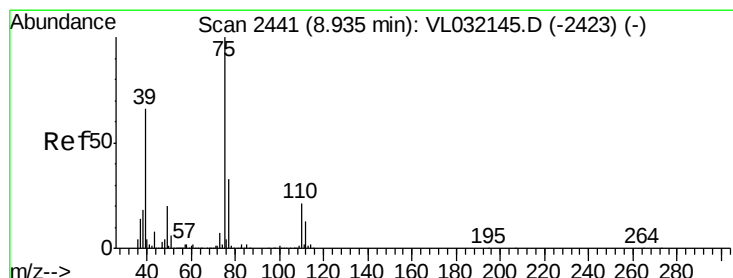
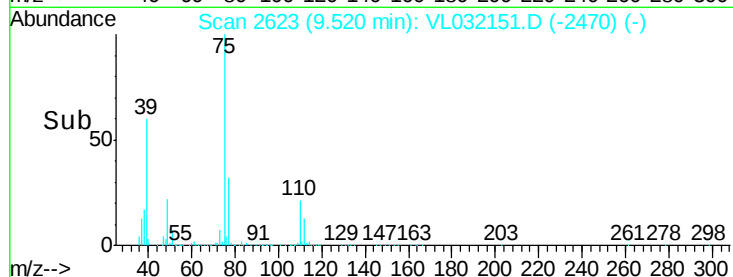
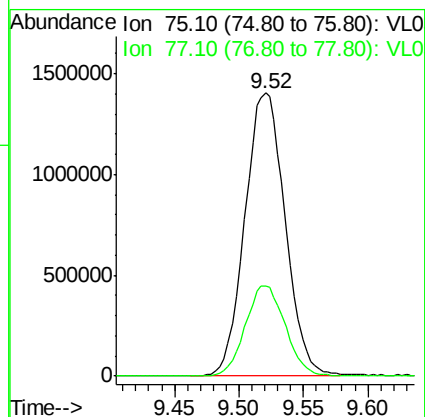
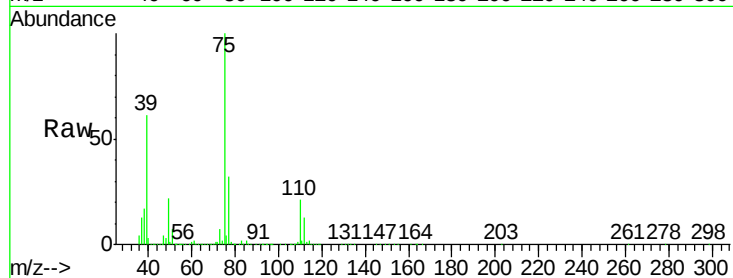
75 100

77 31.8 25.6 38.4

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#46

cis-1,3-Dichloropropene

Concen: 12.13 ppbv

RT: 8.94 min Scan# 2442

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

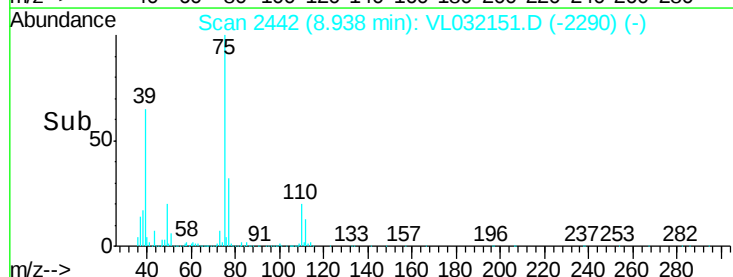
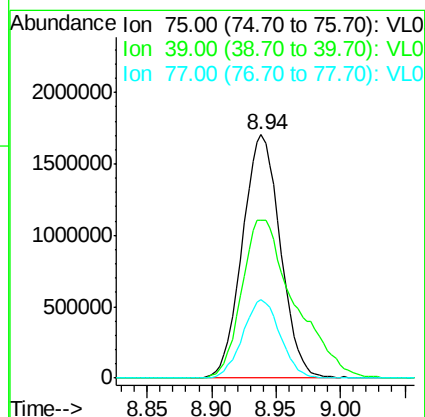
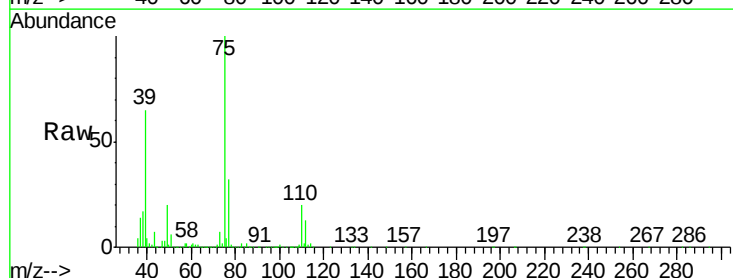
Tgt Ion: 75 Resp: 3493546

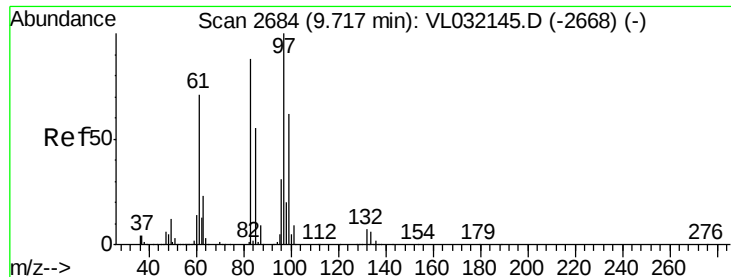
Ion Ratio Lower Upper

75 100

39 64.7 51.9 77.9

77 32.3 24.3 36.5





#47

1,1,2-Trichloroethane

Concen: 11.54 ppbv

RT: 9.72 min Scan# 2686

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampled :

VSTDIC015

Tot Ion: 97 Resp: 2205693

Ion Ratio Lower Upper

97 100

83 88.9 71.0 106.4

85 58.4 44.2 66.4

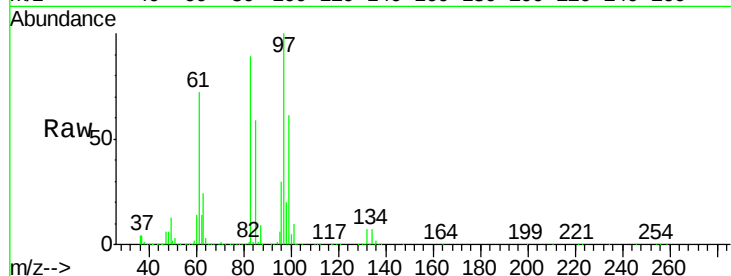
99 61.0 49.2 73.8

Manual Integrations

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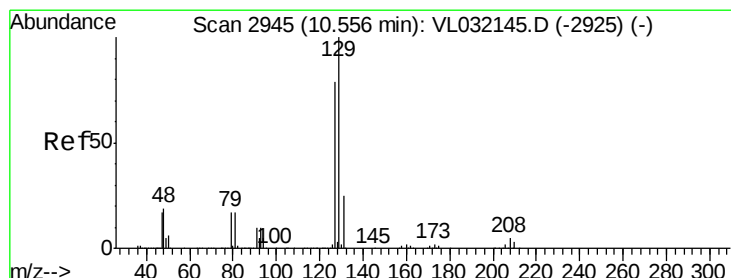
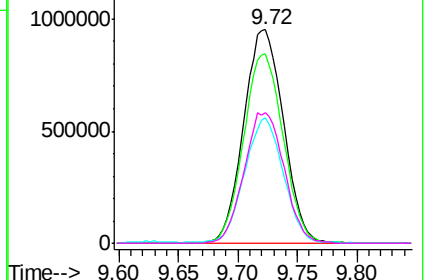
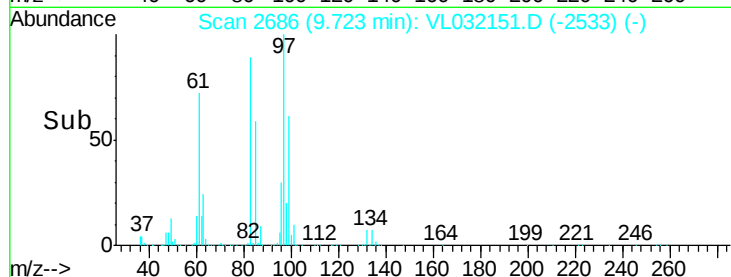


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 12.03 ppbv

RT: 10.56 min Scan# 2946

Delta R.T. -0.01 min

Lab File: VL032151.D

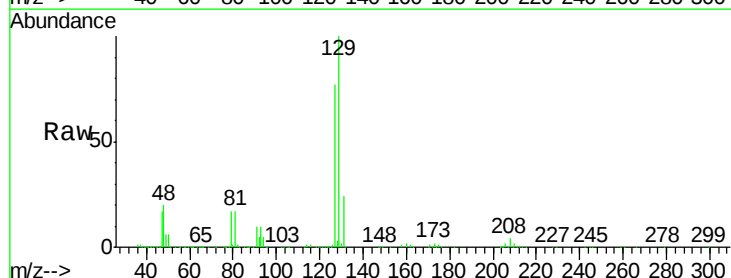
Acq: 29 Jun 2018 21:55

Tgt Ion: 129 Resp: 3442471

Ion Ratio Lower Upper

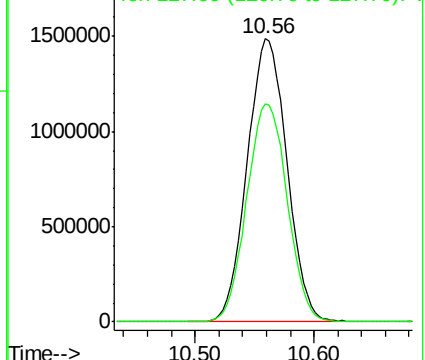
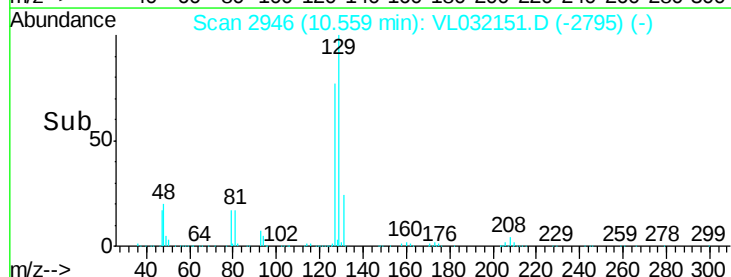
129 100

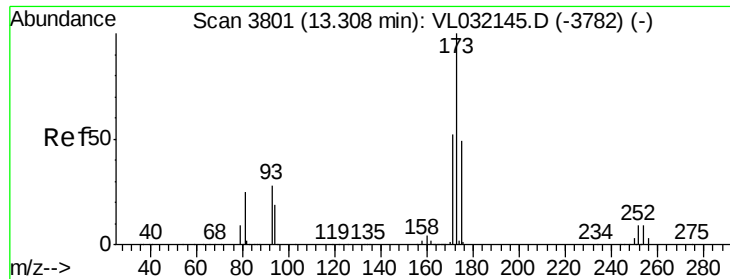
127 78.8 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 12.98 ppbv

RT: 13.32 min Scan# 3804

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:173 Resp: 2843851

Ion Ratio Lower Upper

173 100

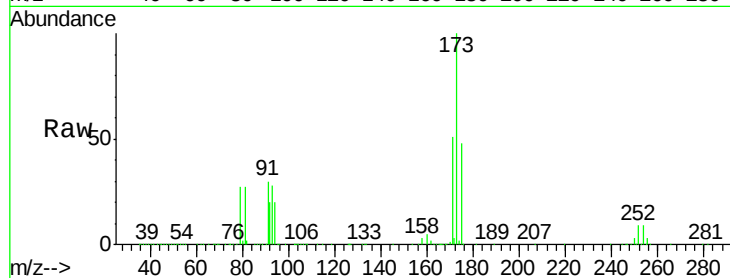
175 48.6 39.4 59.0

171 51.6 41.8 62.8

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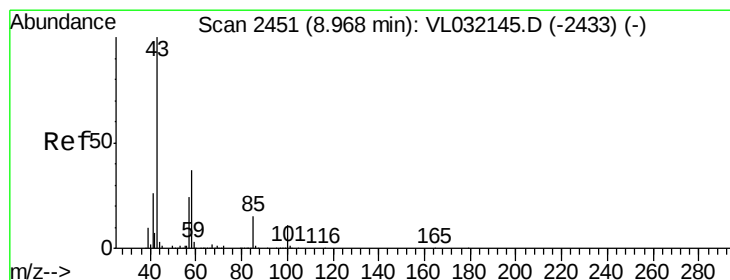
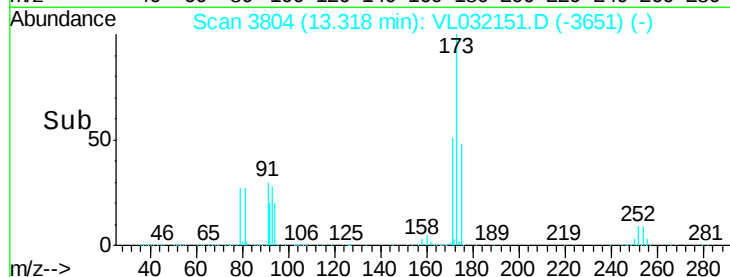
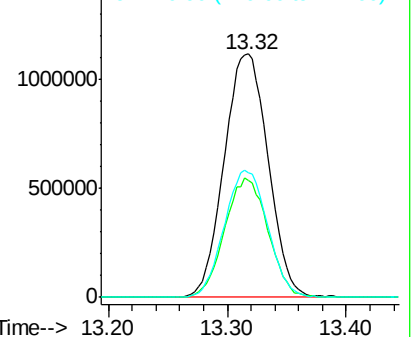
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.78 ppbv

RT: 8.97 min Scan# 2452

Delta R.T. -0.01 min

Lab File: VL032151.D

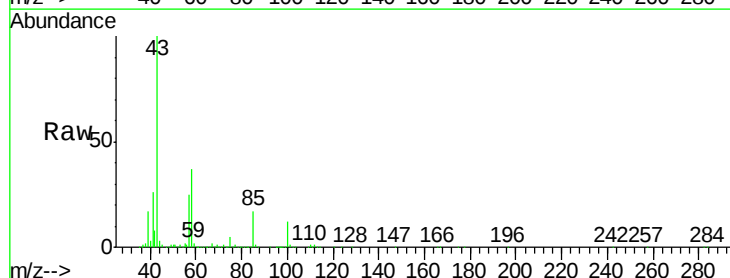
Acq: 29 Jun 2018 21:55

Tgt Ion: 43 Resp: 5755971

Ion Ratio Lower Upper

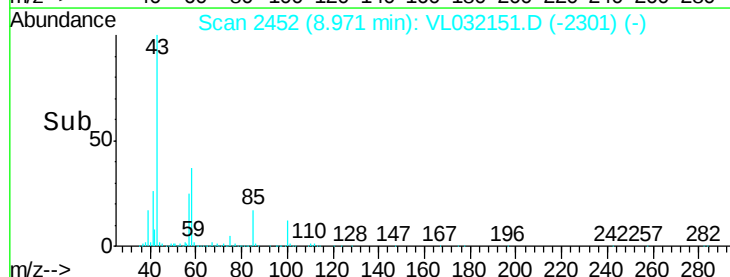
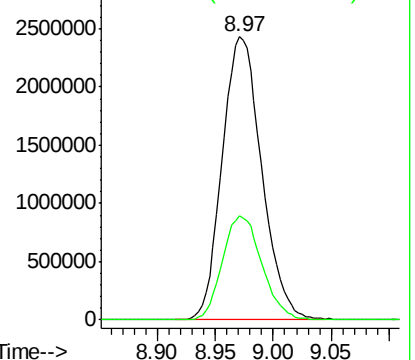
43 100

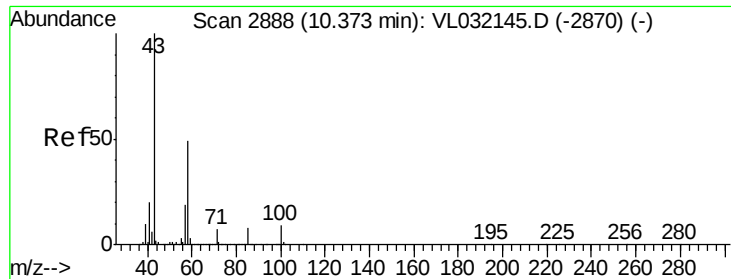
58 36.7 29.8 44.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





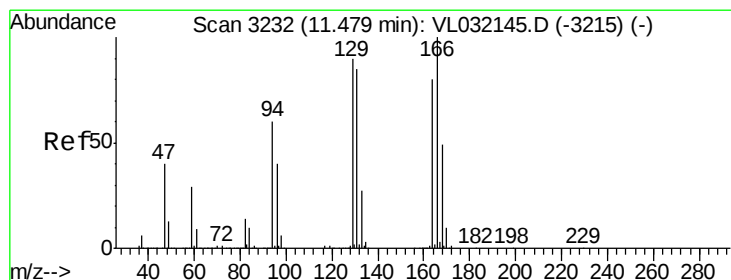
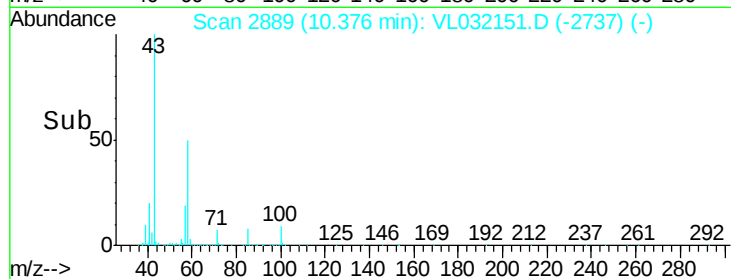
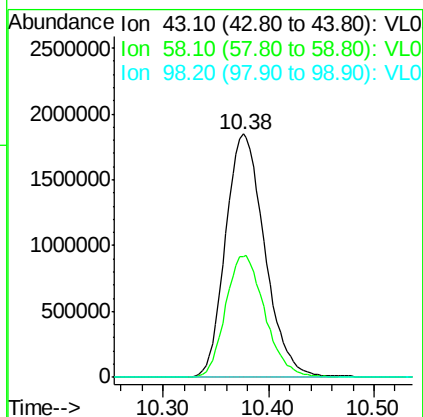
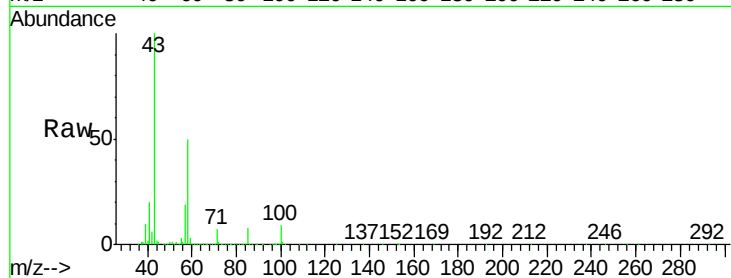
#51
2-Hexanone
Concen: 8.93 ppbv
RT: 10.38 min Scan# 2889
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 4746020
Ion Ratio Lower Upper
43 100
58 50.5 40.6 60.8
98 0.1 0.1 0.1

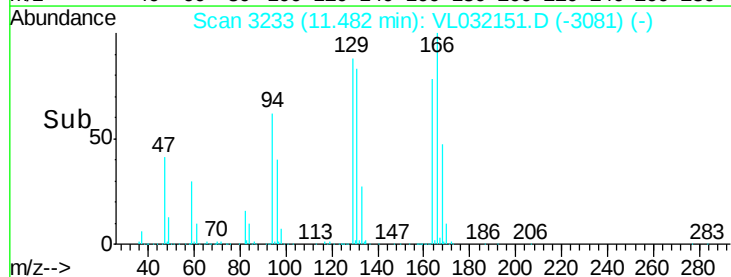
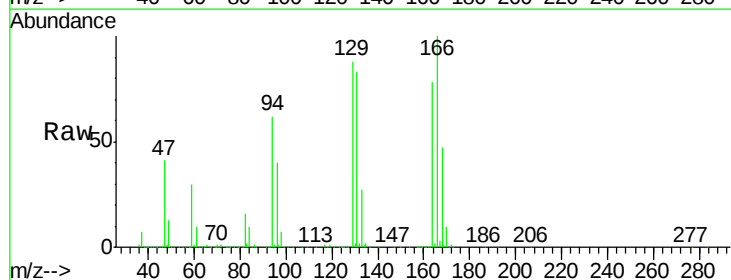
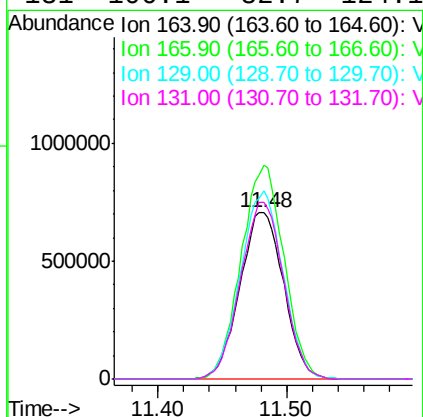
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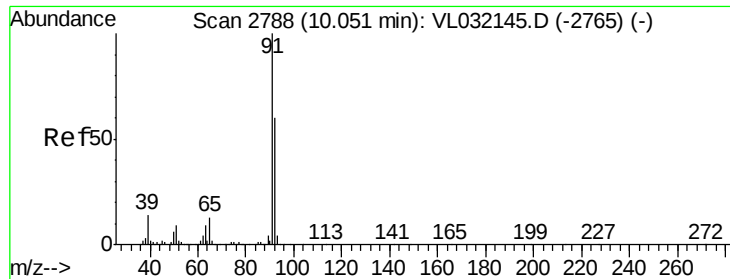
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#52
Tetrachloroethene
Concen: 9.77 ppbv
RT: 11.48 min Scan# 3233
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Tgt Ion: 164 Resp: 1661507
Ion Ratio Lower Upper
164 100
166 128.3 100.6 151.0
129 113.1 84.0 126.0
131 106.1 82.7 124.1





#53

Toluene

Concen: 11.03 ppbv

RT: 10.05 min Scan# 2789

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 6124854

Ion Ratio Lower Upper

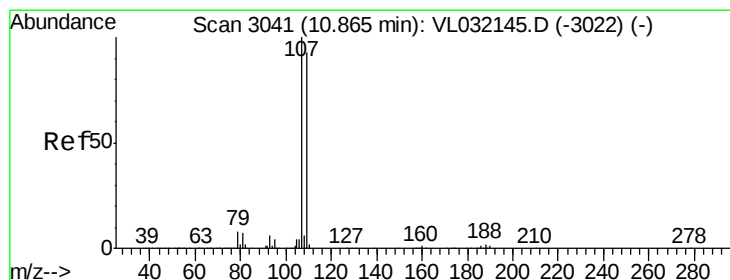
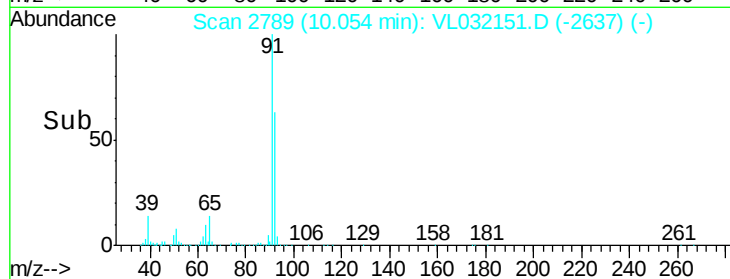
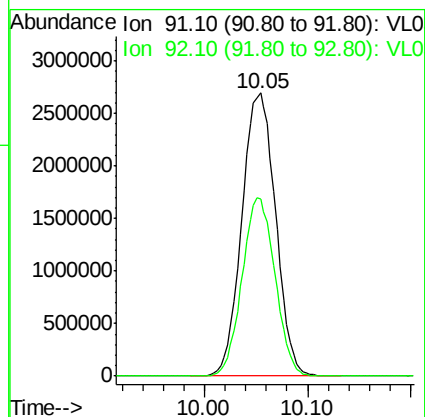
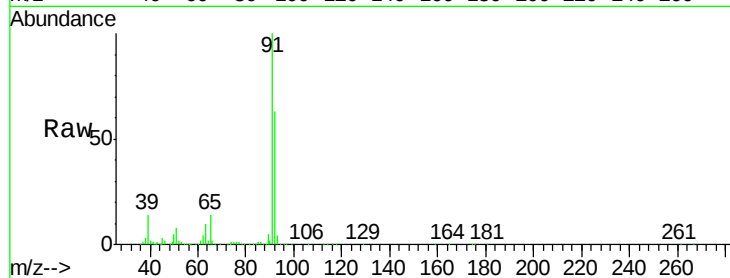
91 100

92 61.6 49.2 73.8

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#54

1,2-Dibromoethane

Concen: 11.58 ppbv

RT: 10.87 min Scan# 3043

Delta R.T. -0.01 min

Lab File: VL032151.D

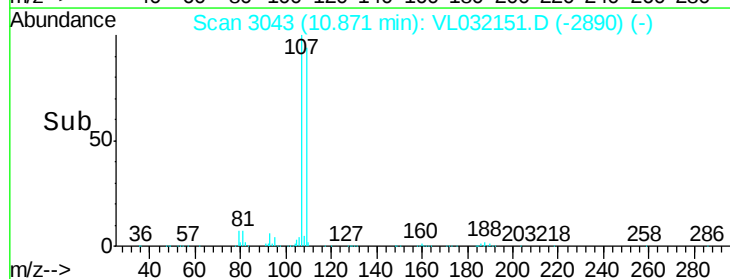
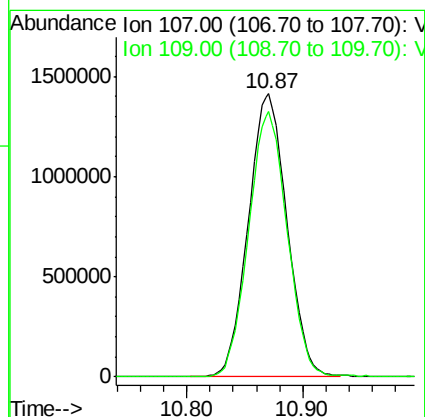
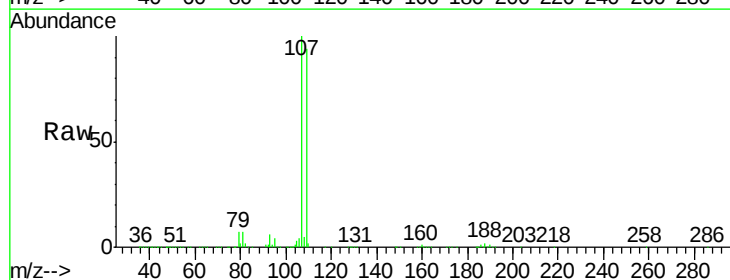
Acq: 29 Jun 2018 21:55

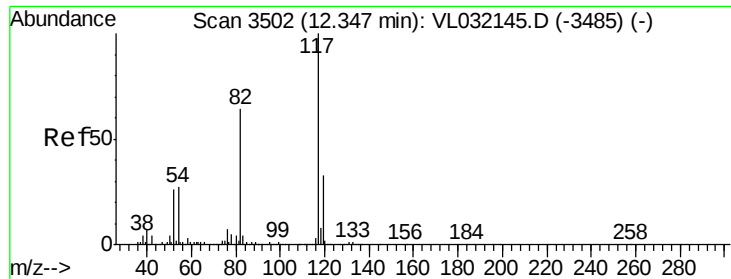
Tgt Ion: 107 Resp: 3274881

Ion Ratio Lower Upper

107 100

109 93.8 75.0 112.4





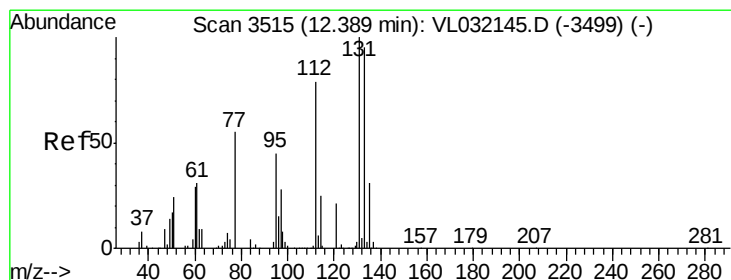
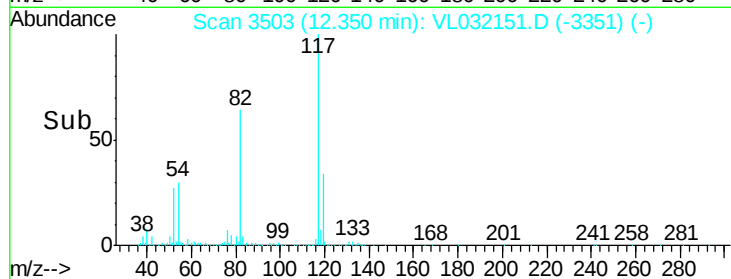
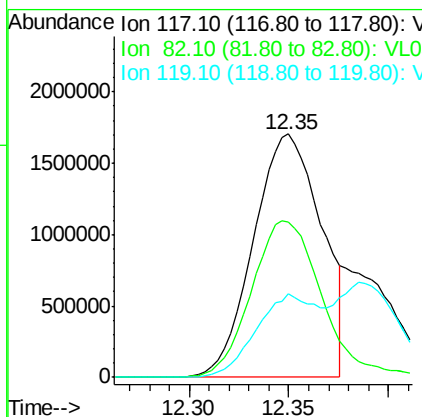
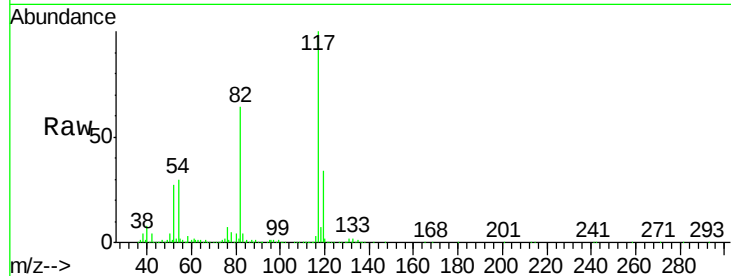
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.35 min Scan# 3503
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 4053219
Ion Ratio Lower Upper
117 100
82 66.6 47.8 71.8
119 32.3 43.3 64.9#

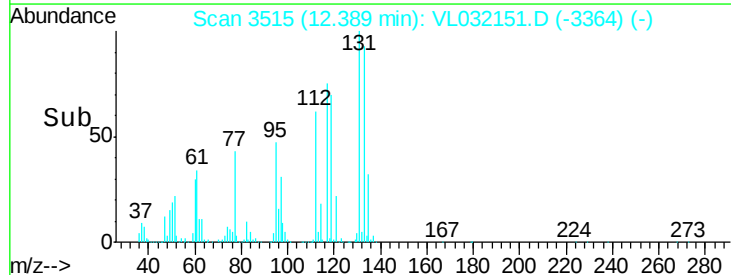
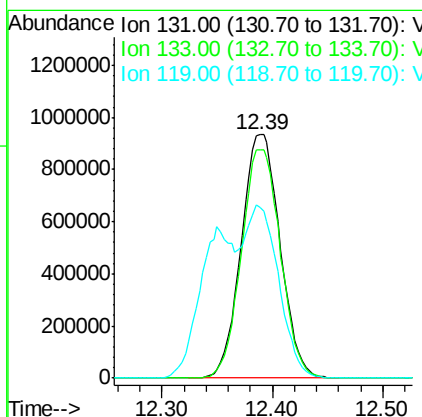
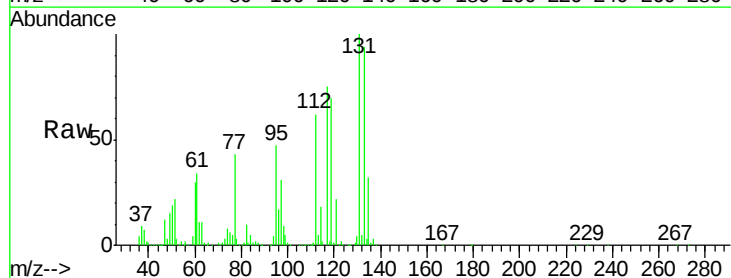
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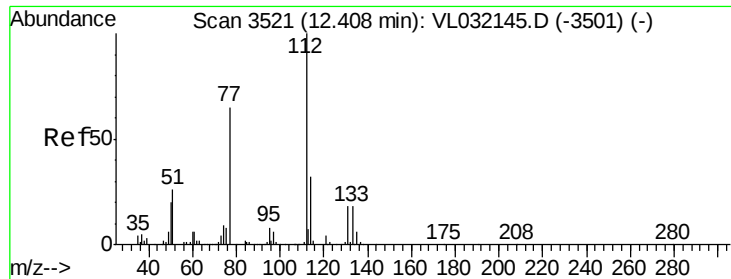
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#56
1,1,1,2-Tetrachloroethane
Concen: 12.64 ppbv
RT: 12.39 min Scan# 3515
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Tgt Ion:131 Resp: 2277440
Ion Ratio Lower Upper
131 100
133 94.7 75.5 113.3
119 120.8 118.4 177.6





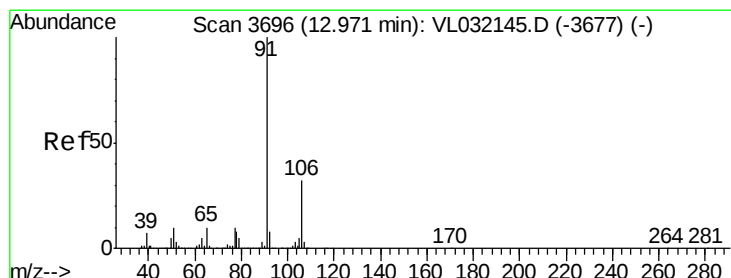
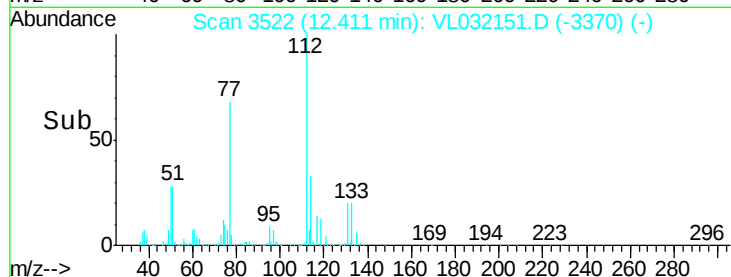
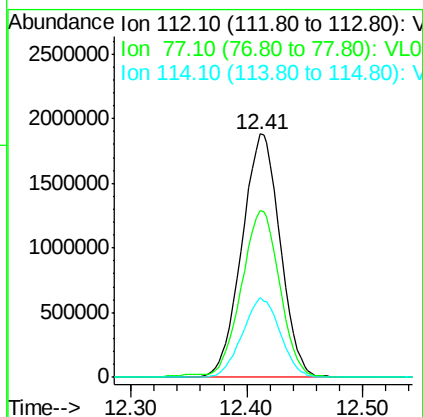
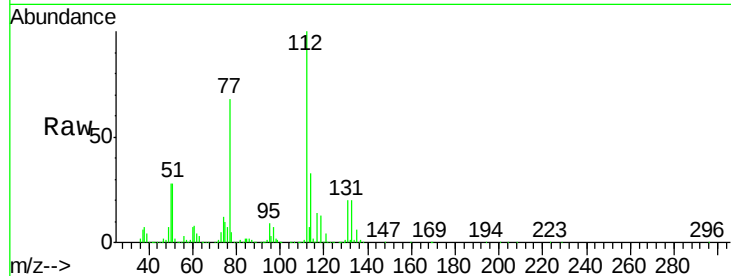
#57
Chlorobenzene
Concen: 11.23 ppbv
RT: 12.41 min Scan# 3522
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
112	100		
77	68.0	52.6	78.8
114	32.6	27.9	34.1

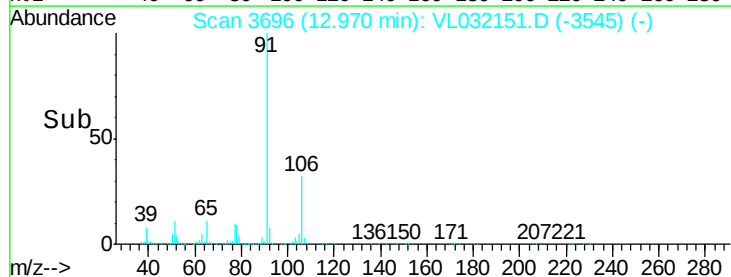
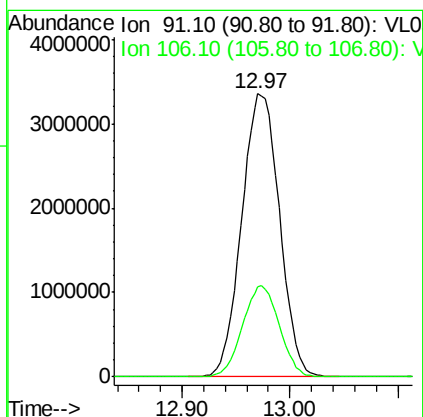
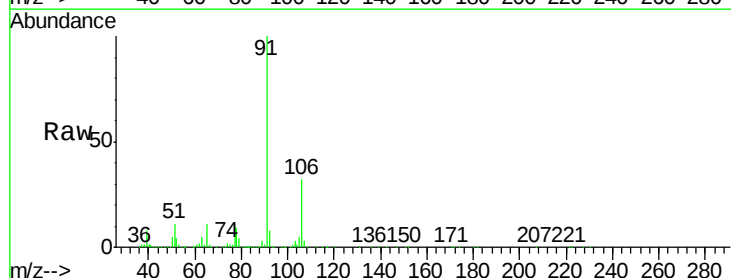
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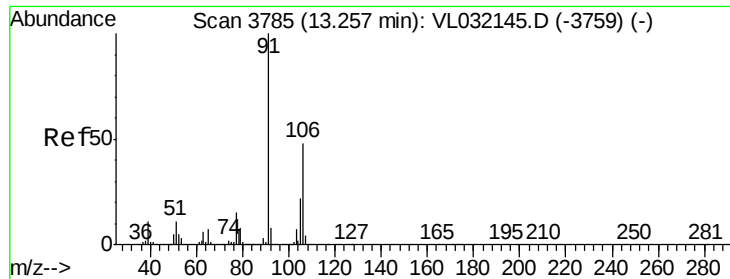
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#58
Ethyl Benzene
Concen: 11.59 ppbv
RT: 12.97 min Scan# 3696
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.7	26.5	39.7





#59

m/p-Xylene

Concen: 22.91 ppbv m

RT: 13.26 min Scan# 3786

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp:12800543

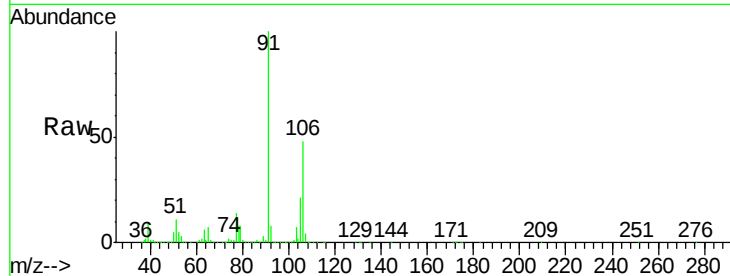
Ion Ratio Lower Upper

91 100

106 46.8 38.6 58.0

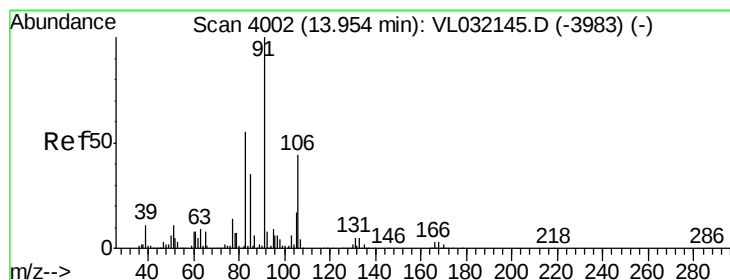
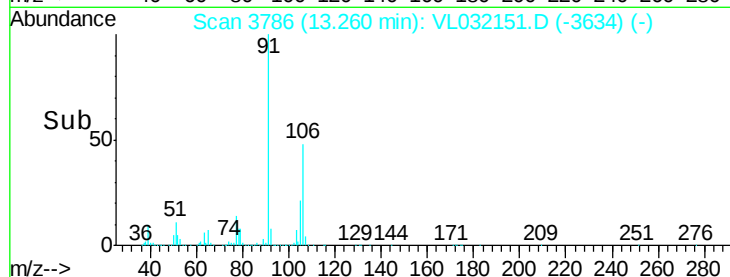
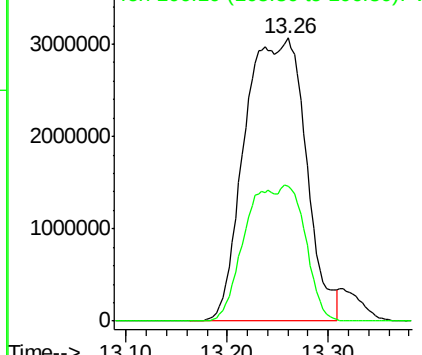
Manual Integrations
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 11.17 ppbv

RT: 13.96 min Scan# 4004

Delta R.T. -0.01 min

Lab File: VL032151.D

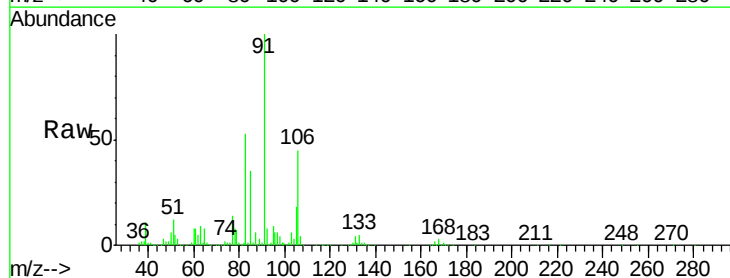
Acq: 29 Jun 2018 21:55

Tgt Ion: 91 Resp: 6193895

Ion Ratio Lower Upper

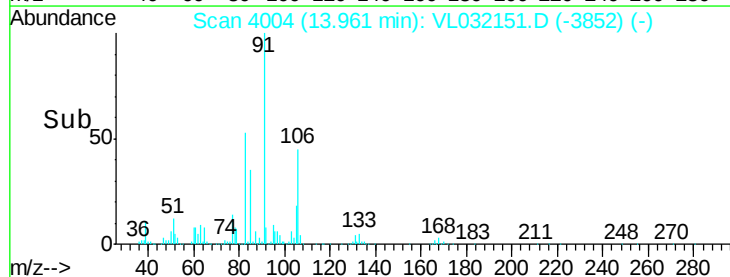
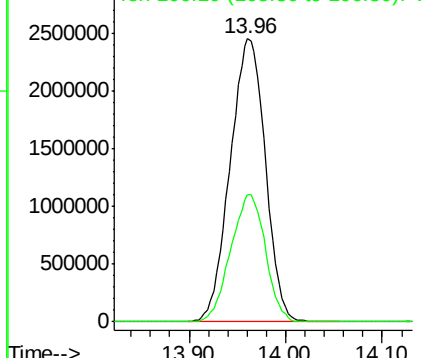
91 100

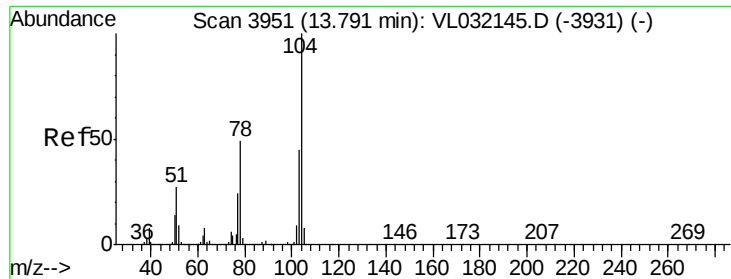
106 44.5 23.3 69.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





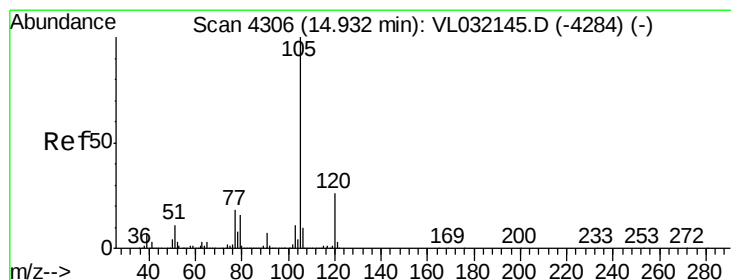
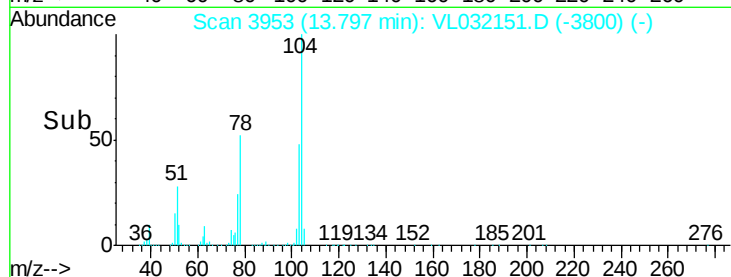
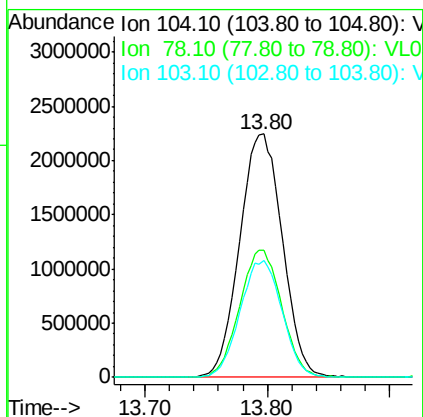
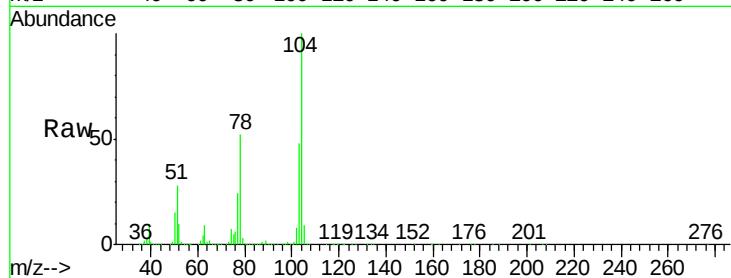
#61
Stvrene
Concen: 32.74 ppbv
RT: 13.80 min Scan# 3953
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
104	100		
78	51.7	37.9	56.9
103	47.5	36.6	55.0

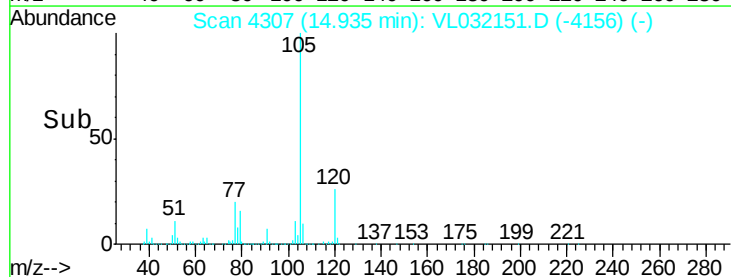
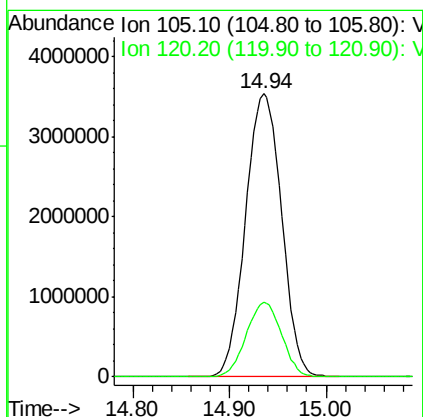
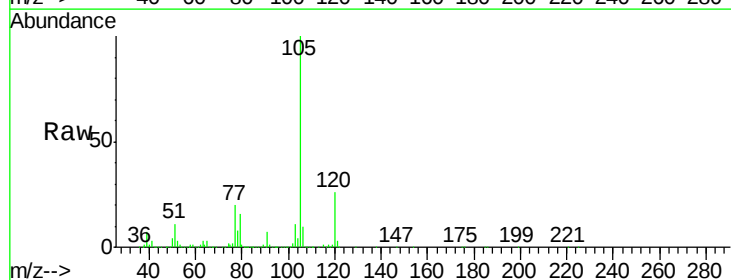
Manual Integrations
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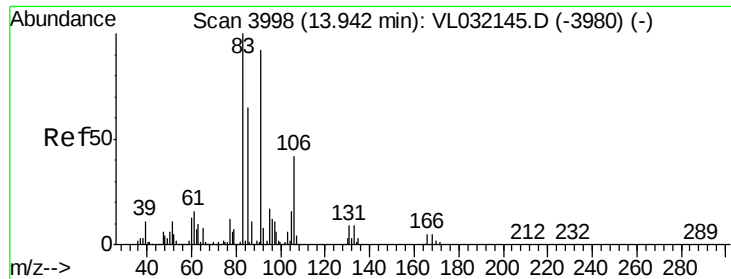
MMDadoda
7/2/2018 4:25:11 PM



#62
Isopropylbenzene
Concen: 12.42 ppbv
RT: 14.94 min Scan# 4307
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.7	21.0	31.4





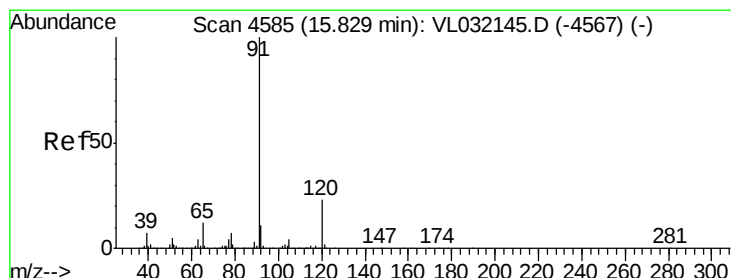
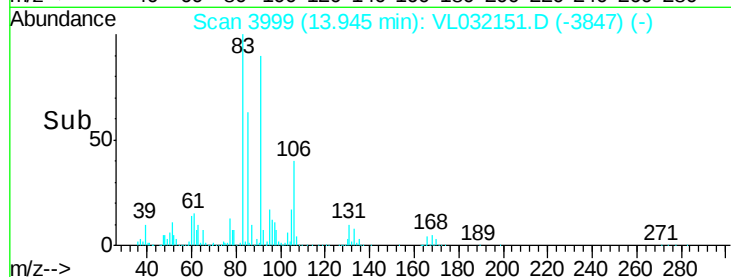
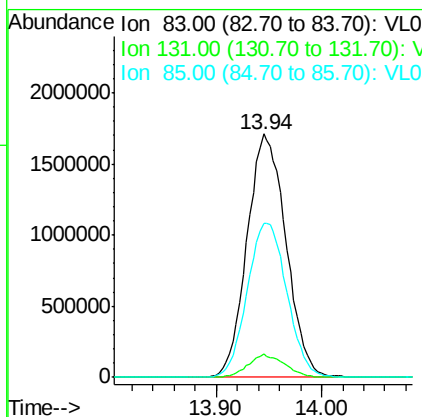
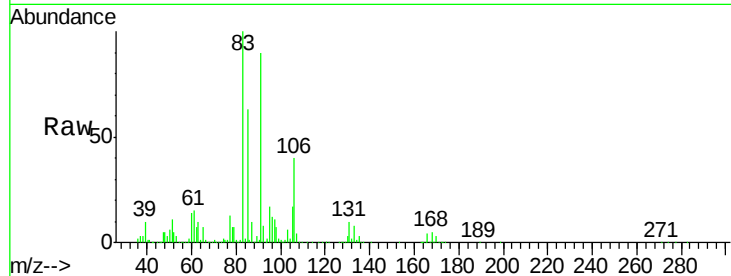
#63
 1,1,2,2-Tetrachloroethane
 Concen: 10.19 ppbv
 RT: 13.94 min Scan# 3999
 Delta R.T. -0.01 min
 Lab File: VL032151.D
 Acq: 29 Jun 2018 21:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 83 Resp: 4385821
 Ion Ratio Lower Upper
 83 100
 131 8.9 4.6 13.8
 85 64.7 32.4 97.2

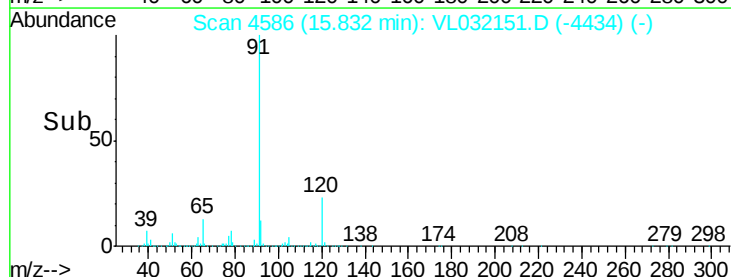
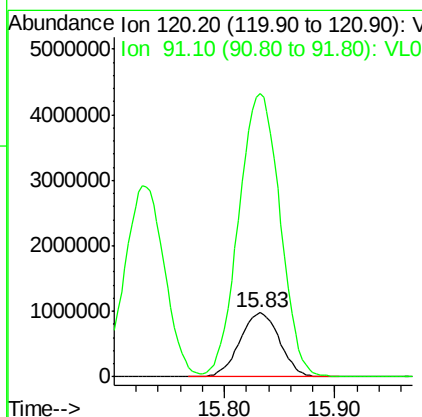
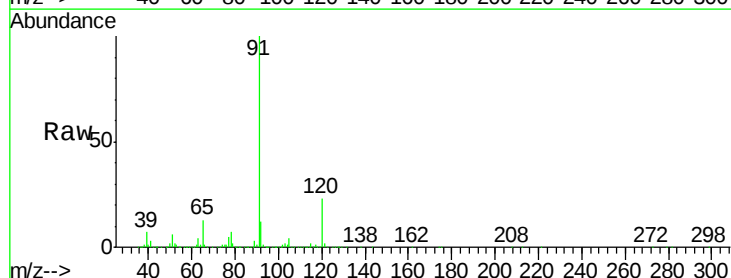
Manual Integrations
 APPROVED

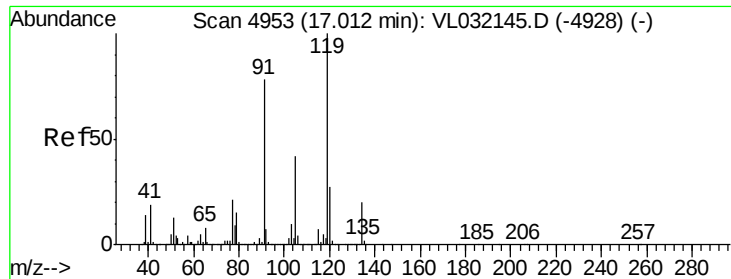
MMDadoda
 7/2/2018 4:25:11 PM



#64
 n-propylbenzene
 Concen: 12.69 ppbv
 RT: 15.83 min Scan# 4586
 Delta R.T. -0.01 min
 Lab File: VL032151.D
 Acq: 29 Jun 2018 21:55

Tgt Ion:120 Resp: 2442371
 Ion Ratio Lower Upper
 120 100
 91 461.1 357.4 536.0





#65

tert-Butylbenzene

Concen: 11.61 ppbv

RT: 17.02 min Scan# 4954

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:119 Resp: 7550903

Ion Ratio Lower Upper

119 100

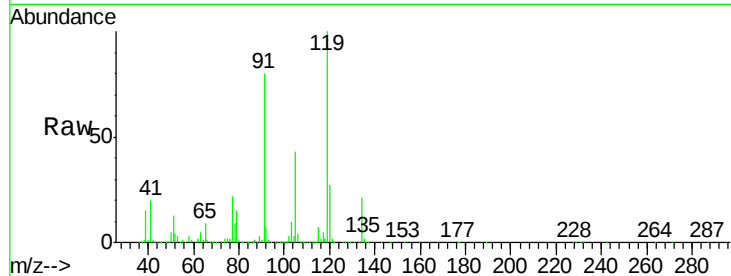
91 82.2 62.2 93.2

134 19.2 16.2 24.2

Manual Integrations
APPROVED

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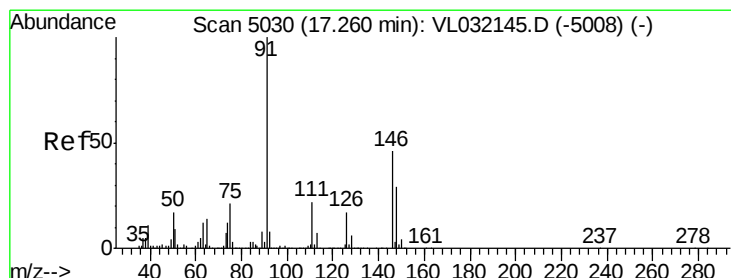
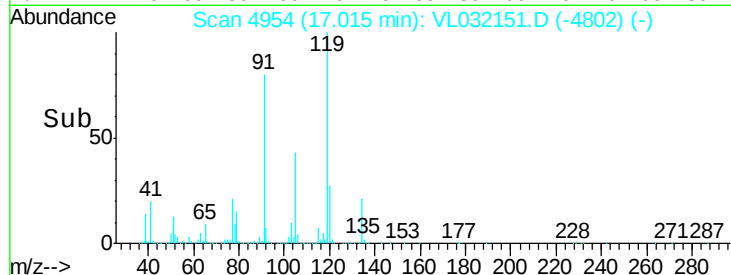
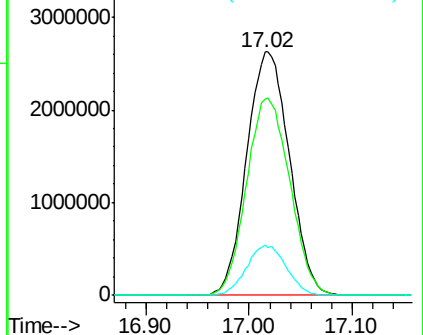
7/2/2018 4:25:11 PM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 67.74 ppbv

RT: 17.27 min Scan# 5032

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

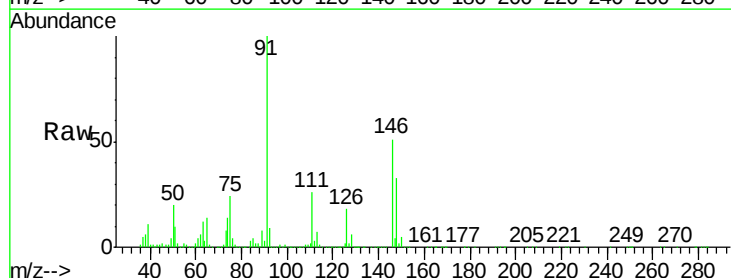
Tgt Ion: 91 Resp: 5621540

Ion Ratio Lower Upper

91 100

126 17.9 15.7 23.5

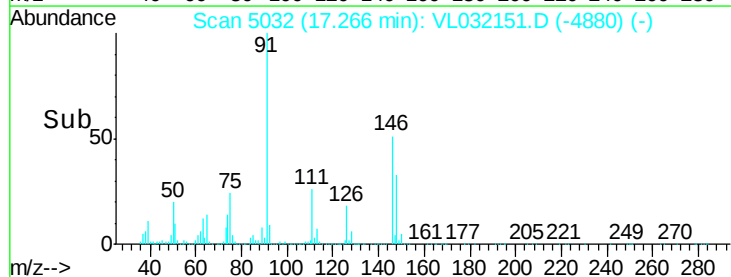
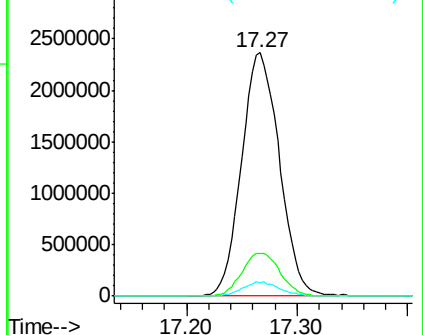
128 5.7 5.2 7.8

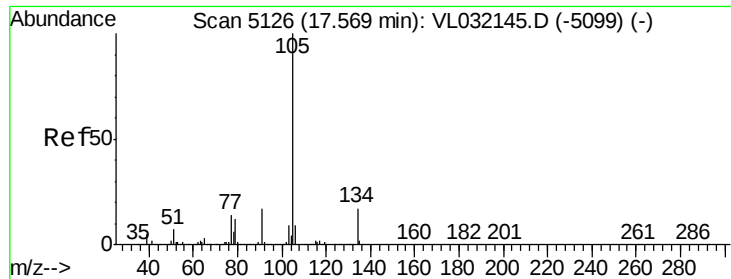


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 11.73 ppbv

RT: 17.57 min Scan# 5126

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp:11123179

Ion Ratio Lower Upper

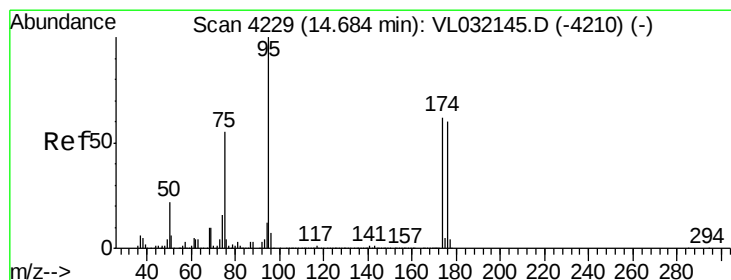
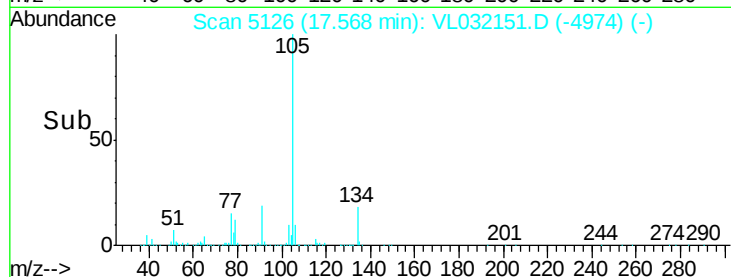
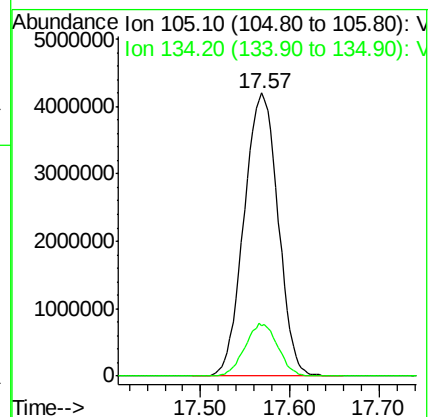
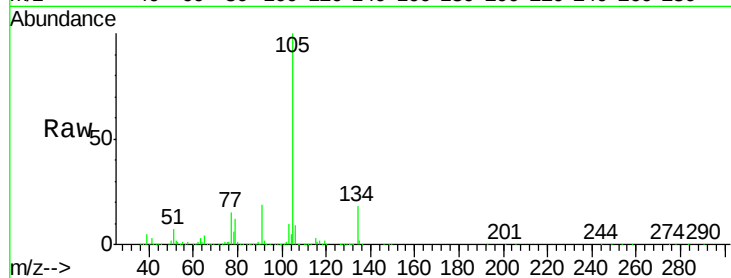
105 100

134 18.0 14.7 22.1

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.16 ppbv

RT: 14.69 min Scan# 4230

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

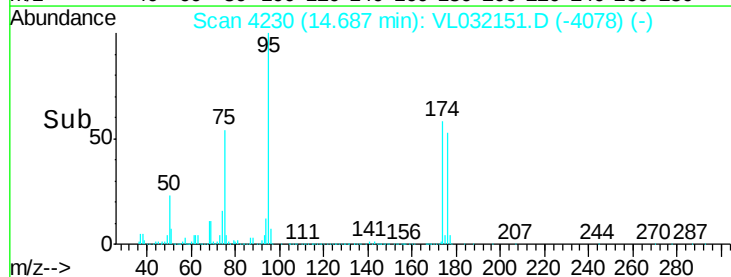
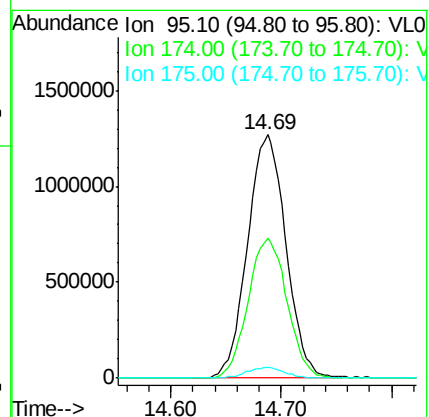
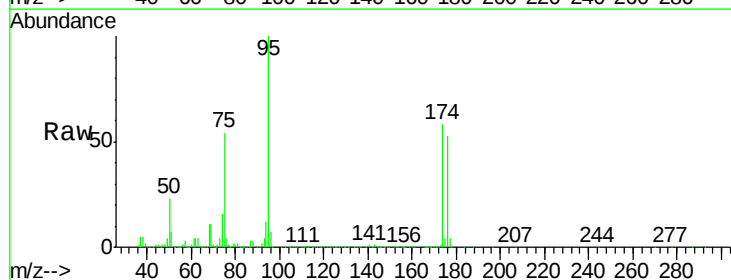
Tgt Ion: 95 Resp: 3060193

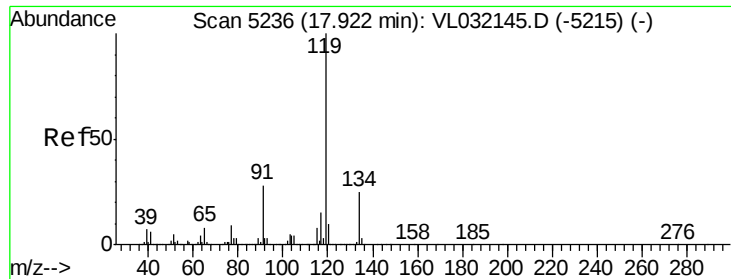
Ion Ratio Lower Upper

95 100

174 58.3 52.1 78.1

175 4.3 4.0 6.0





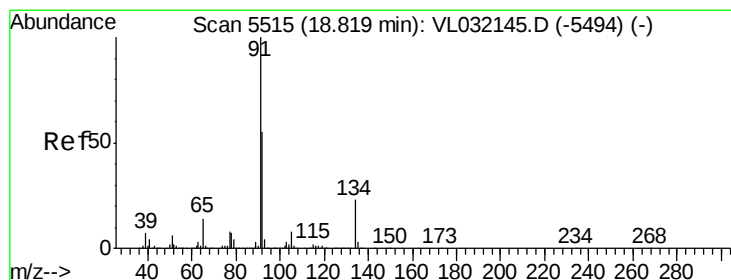
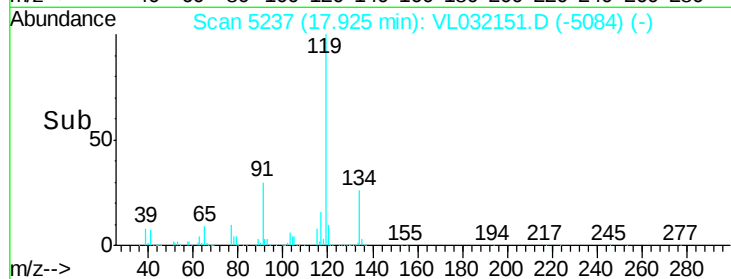
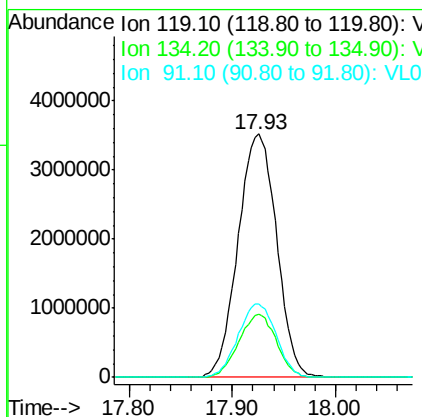
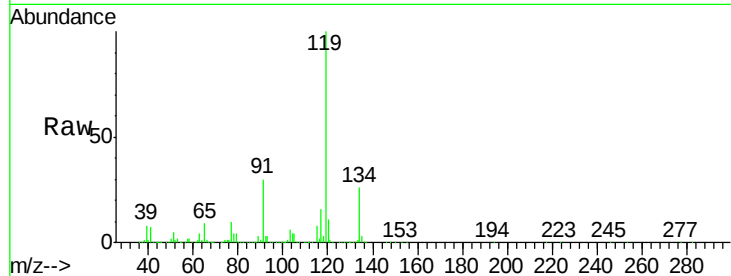
#69
p-Isopropyltoluene
Concen: 11.76 ppbv
RT: 17.93 min Scan# 5237
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:119 Resp: 9137774
Ion Ratio Lower Upper
119 100
134 25.3 20.7 31.1
91 29.8 21.8 32.8

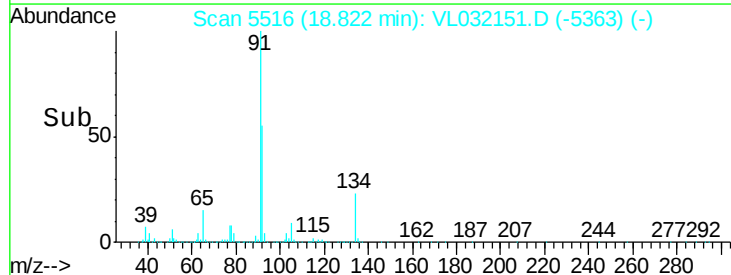
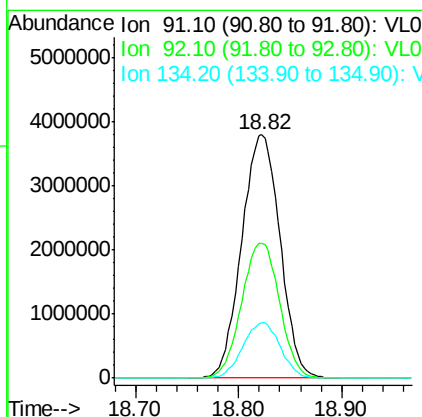
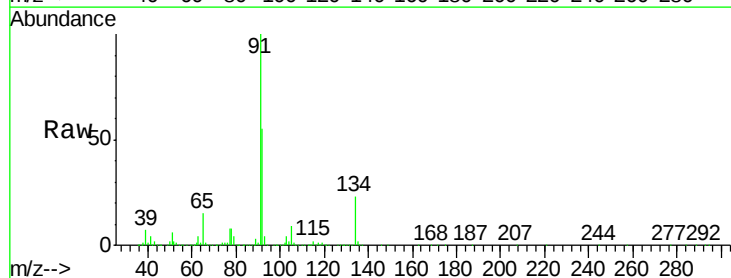
Manual Integrations
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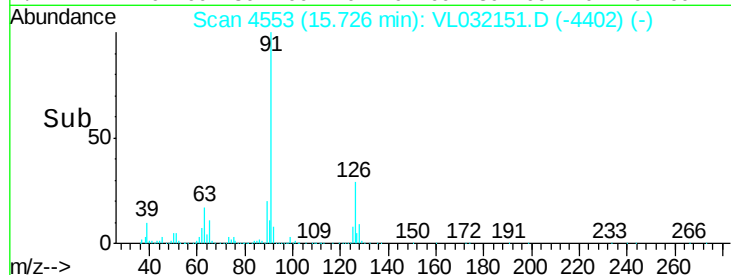
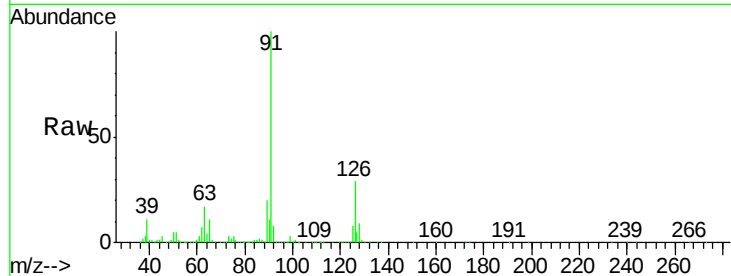
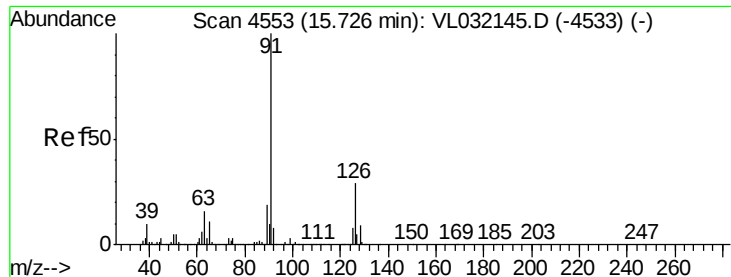
MMDadoda
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#70
n-Butylbenzene
Concen: 11.97 ppbv
RT: 18.82 min Scan# 5516
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Tgt Ion: 91 Resp: 9783667
Ion Ratio Lower Upper
91 100
92 55.2 43.7 65.5
134 22.4 18.9 28.3





#71

2-Chlorotoluene

Concen: 12.90 ppbv

RT: 15.73 min Scan# 4553

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Tot Ion: 91 Resp: 7309395

Ion Ratio Lower Upper

91 100

126 29.6 12.8 51.0

Instrument :

MSVOA_L

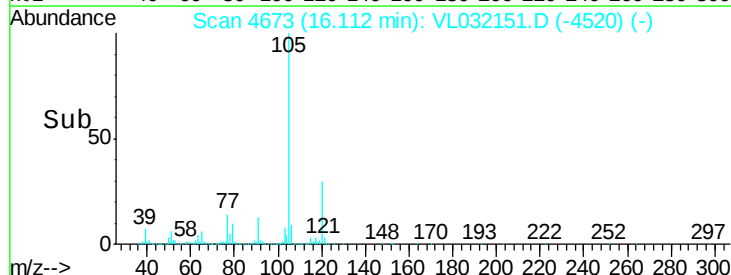
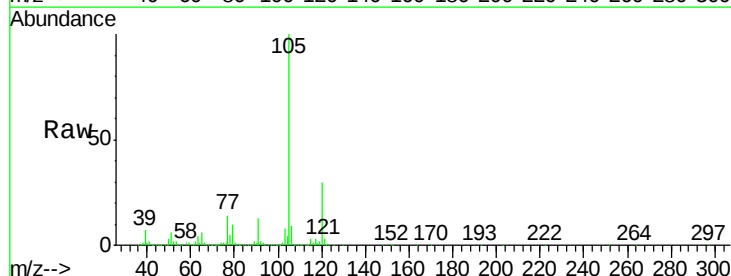
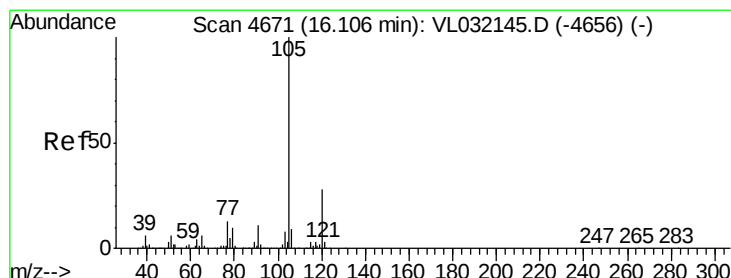
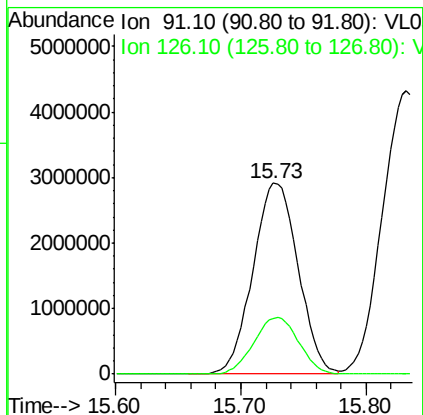
ClientSampleId :

VSTDIC015

Manual Integrations
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#72

4-Ethyltoluene

Concen: 12.75 ppbv

RT: 16.11 min Scan# 4673

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Tgt Ion:105 Resp: 7977882

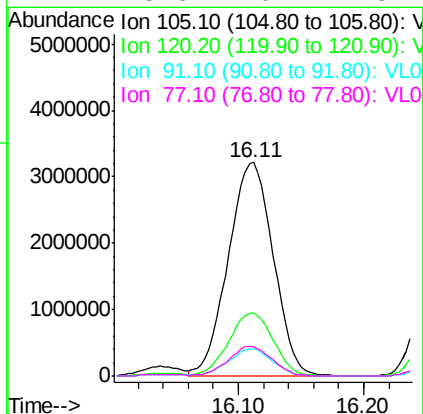
Ion Ratio Lower Upper

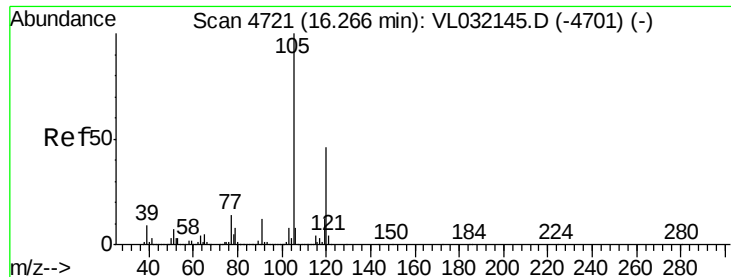
105 100

120 29.4 24.3 36.5

91 12.4 9.4 14.0

77 13.6 10.2 15.2





#73

1,3,5-Trimethylbenzene

Concen: 13.36 ppbv

RT: 16.27 min Scan# 4722

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 7483895

Ion Ratio Lower Upper

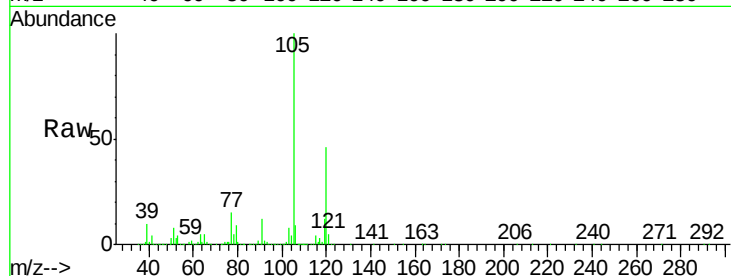
105 100

120 46.5 38.6 57.8

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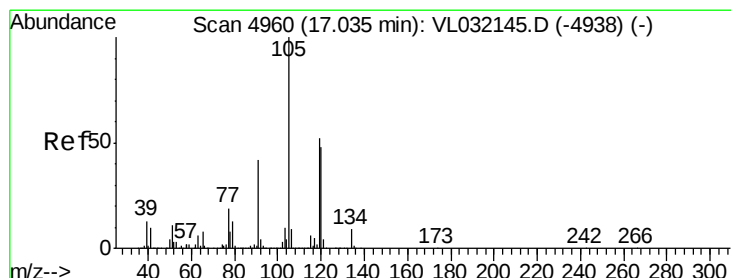
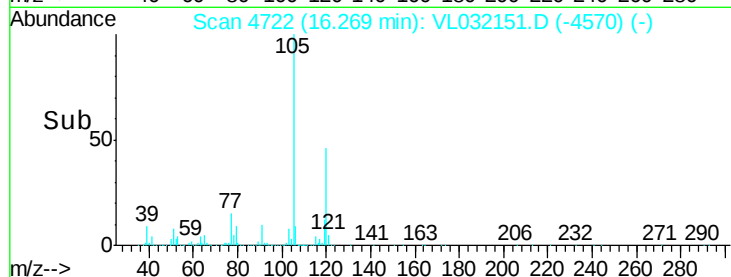
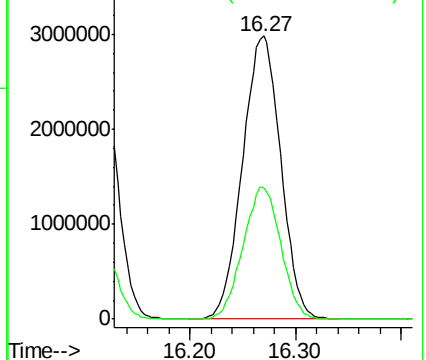
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 11.95 ppbv

RT: 17.04 min Scan# 4961

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Tgt Ion:105 Resp: 7114855

Ion Ratio Lower Upper

105 100

120 48.4 38.8 58.2

91 46.8 33.6 50.4

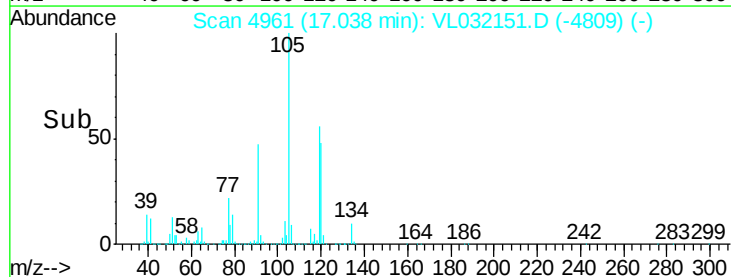
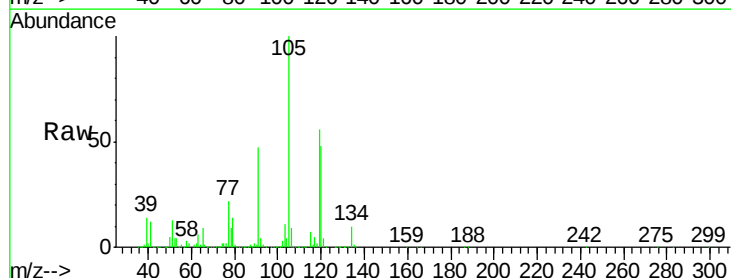
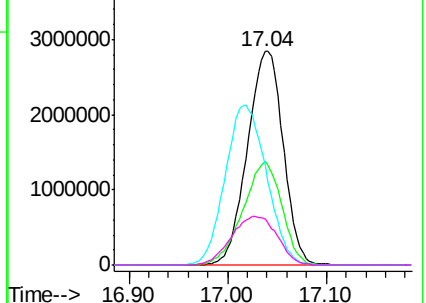
77 21.7 16.0 24.0

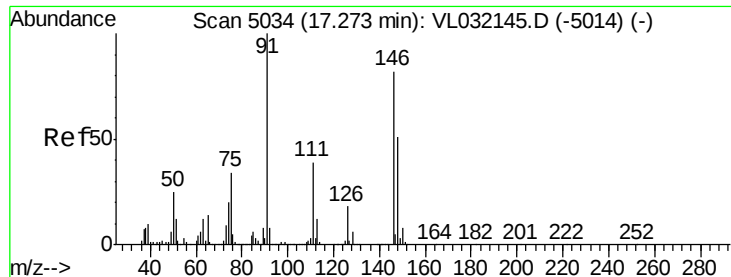
Abundance Ion 105.10 (104.80 to 105.80): V

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: 11.00 ppbv

RT: 17.28 min Scan# 5036

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 4007055

Ion Ratio Lower Upper

146 100

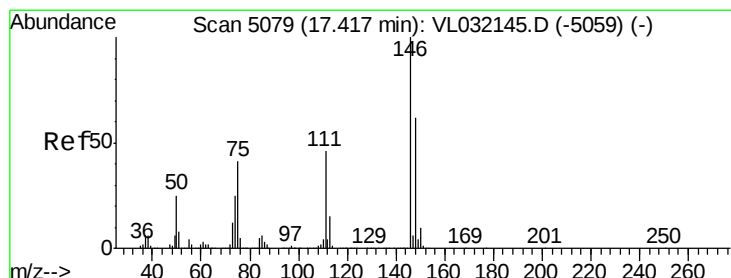
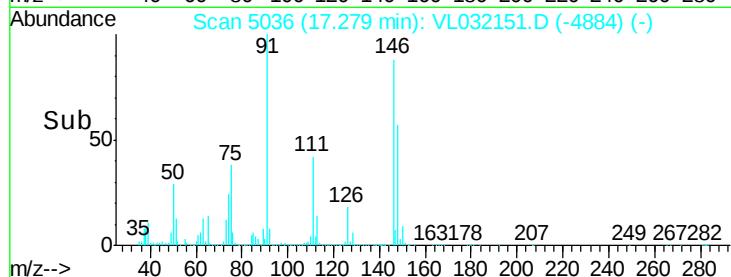
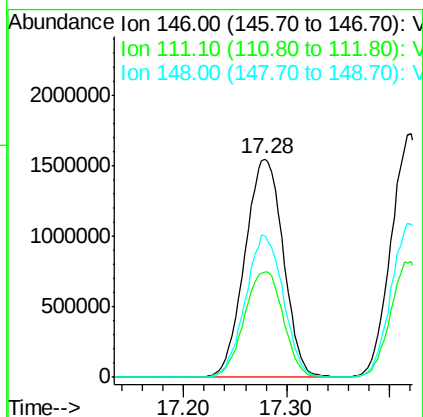
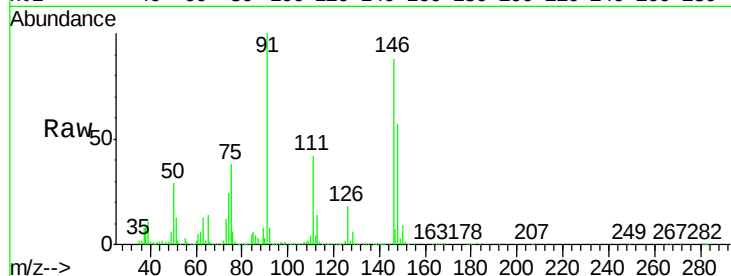
111 49.1 22.9 68.8

148 64.1 31.7 95.1

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 11.46 ppbv

RT: 17.42 min Scan# 5080

Delta R.T. -0.01 min

Lab File: VL032151.D

Acq: 29 Jun 2018 21:55

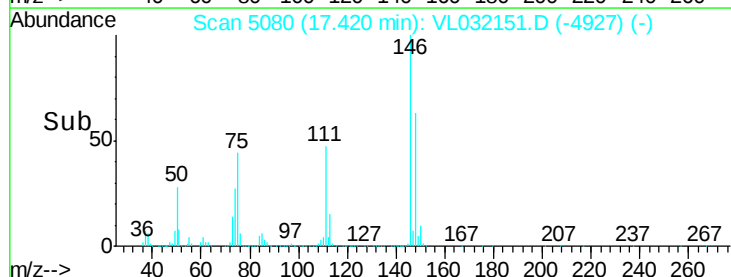
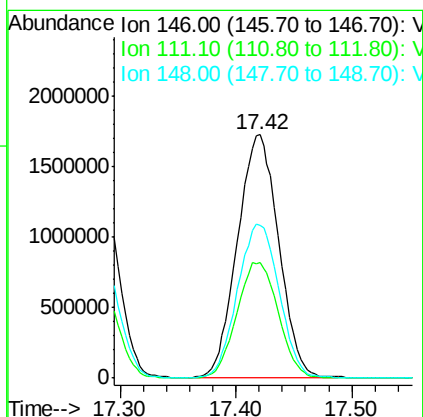
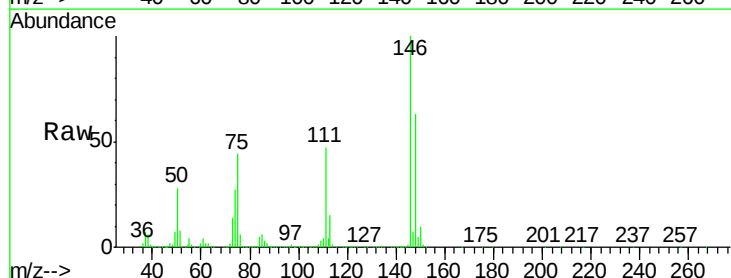
Tgt Ion:146 Resp: 4245430

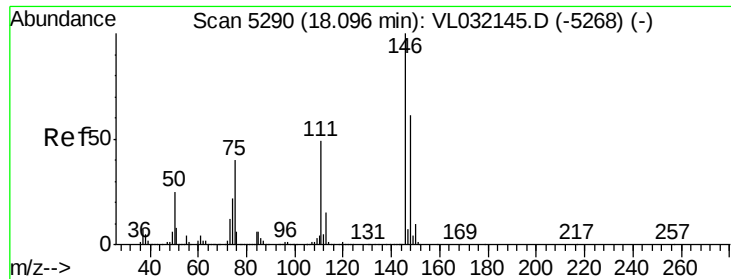
Ion Ratio Lower Upper

146 100

111 48.2 21.9 65.8

148 64.0 32.1 96.5





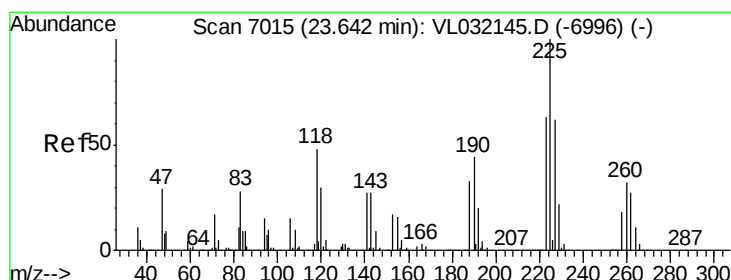
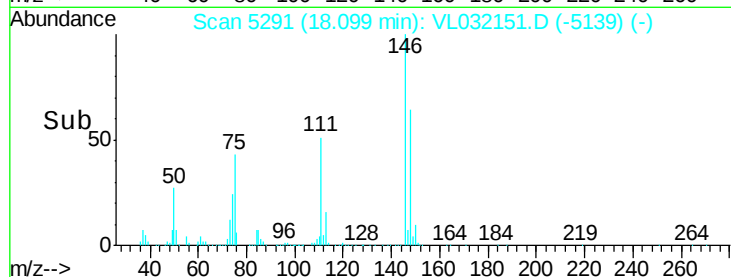
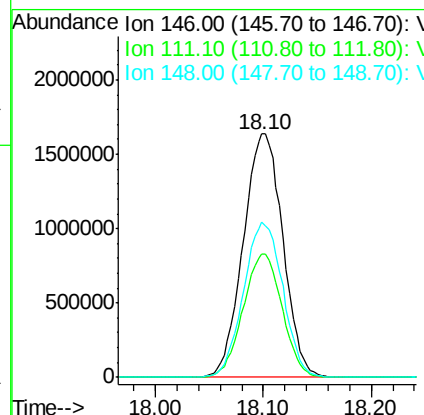
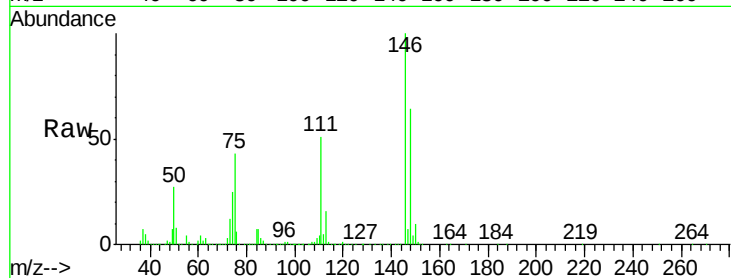
#77
 1,2-Dichlorobenzene
 Concen: 11.02 ppbv
 RT: 18.10 min Scan# 5291
 Delta R.T. -0.01 min
 Lab File: VL032151.D
 Acq: 29 Jun 2018 21:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:146 Resp: 4174770
 Ion Ratio Lower Upper
 146 100
 111 50.0 23.4 70.3
 148 63.3 32.0 96.0

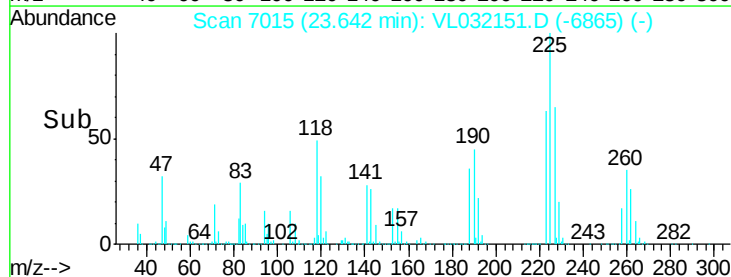
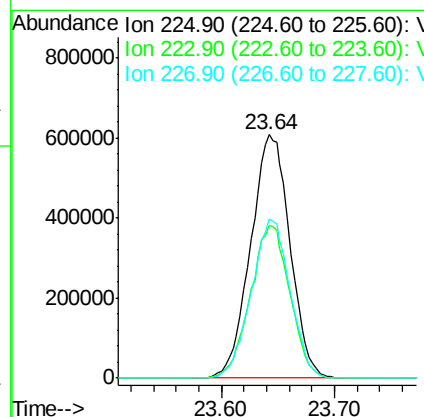
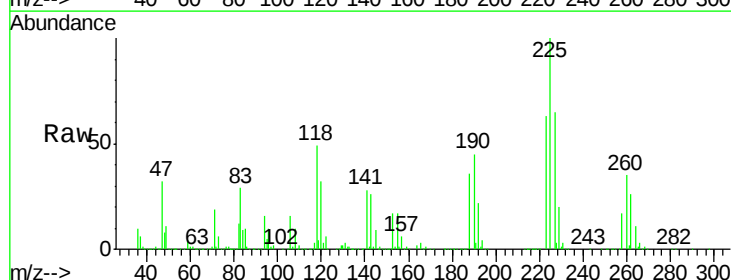
Manual Integrations
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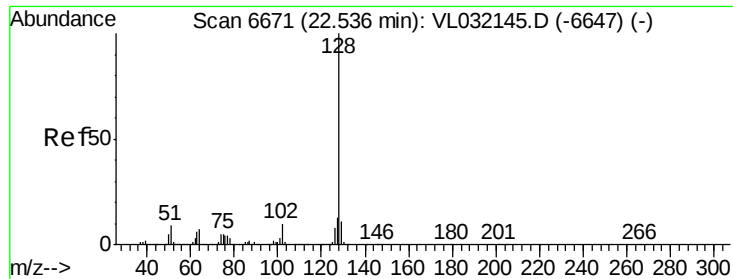
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#78
 Hexachloro-1,3-Butadiene
 Concen: 14.19 ppbv
 RT: 23.64 min Scan# 7015
 Delta R.T. -0.02 min
 Lab File: VL032151.D
 Acq: 29 Jun 2018 21:55

Tgt Ion:225 Resp: 1463308
 Ion Ratio Lower Upper
 225 100
 223 63.0 51.0 76.4
 227 64.6 51.4 77.0





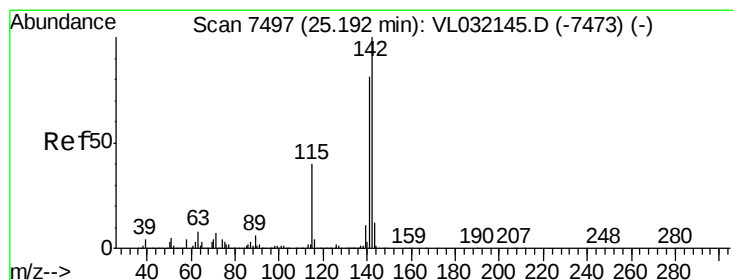
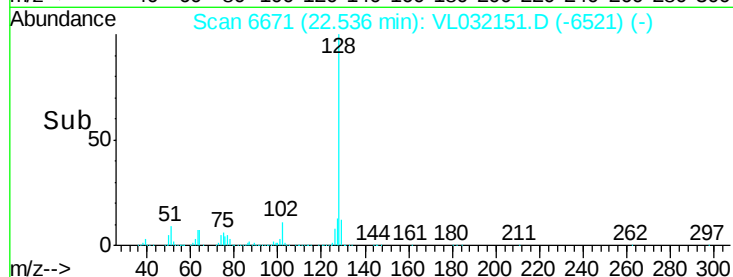
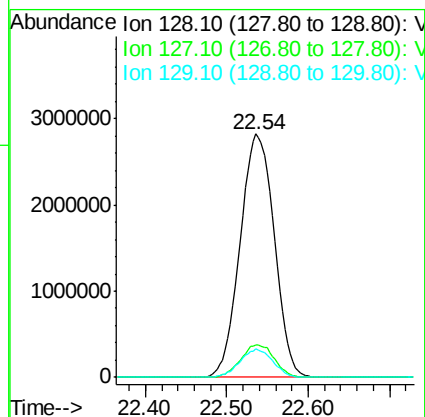
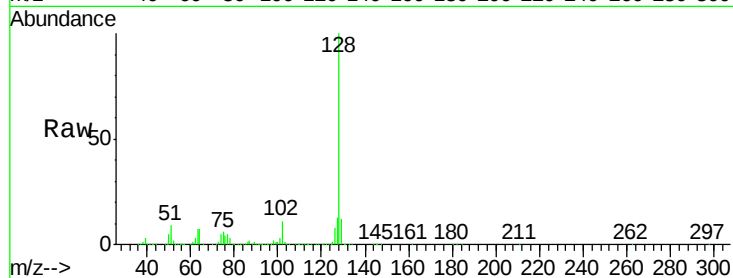
#79
Naphthalene
Concen: 13.12 ppbv
RT: 22.54 min Scan# 6671
Delta R.T. -0.02 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.5	15.7
129	11.5	9.0	13.6

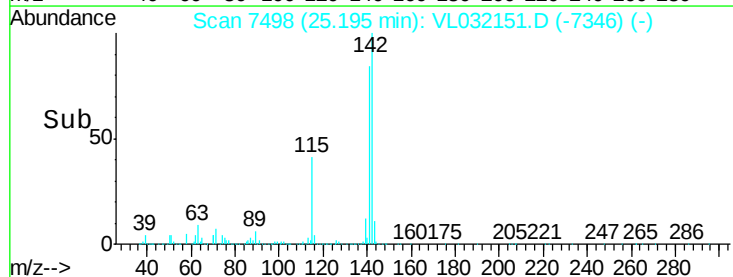
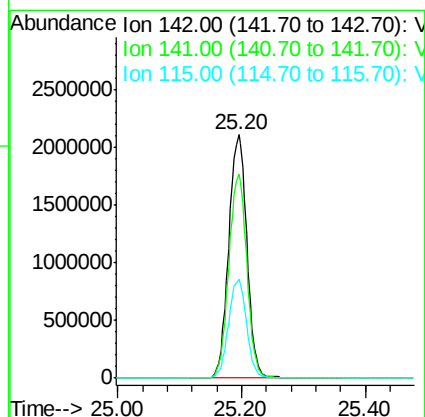
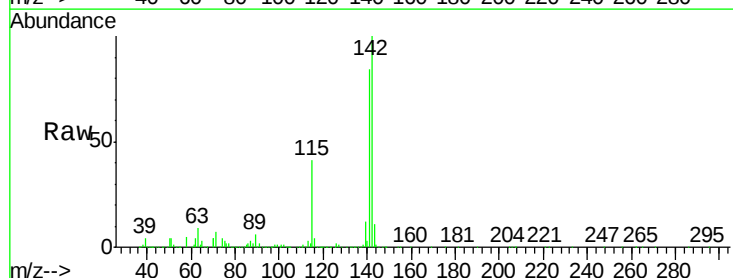
Manual Integrations
APPROVED

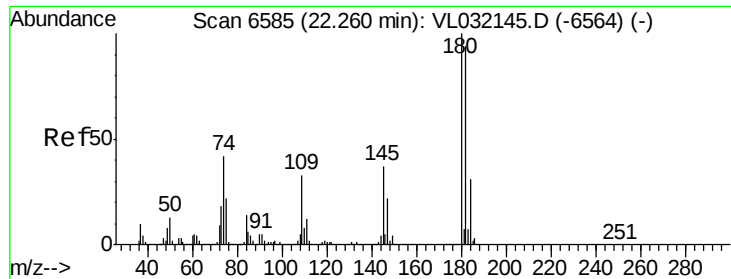
MMDadoda
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#80
Naphthalene, 2-methyl-
Concen: 11.55 ppbv
RT: 25.20 min Scan# 7498
Delta R.T. -0.01 min
Lab File: VL032151.D
Acq: 29 Jun 2018 21:55

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.5	65.8	98.6
115	40.3	29.4	44.0





#81
 1,2,4-Trichlorobenzene
 Concen: 14.72 ppbv
 RT: 22.26 min Scan# 6586
 Delta R.T. -0.01 min
 Lab File: VL032151.D
 Acq: 29 Jun 2018 21:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.2	114.4
184	30.4	24.4	36.6

Manual Integrations
 APPROVED

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