

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL060118\
 Data File : VL032046.D
 Acq On : 2 Jun 2018 9:05
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 6/4/2018 3:36:03 PM

Quant Time: Jun 03 14:18:24 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL053118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 01 02:31:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.87	49	1299152	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.41	114	2583332	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.37	117	2578745m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.70	95	1850802	9.29	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.90%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.15	85	1309389	8.38	ppbv	100
3) Chlorodifluoromethane	3.09	51	1233271	10.09	ppbv	98
4) Chloromethane	3.24	50	661666	10.67	ppbv	96
5) Vinyl Chloride	3.37	62	681450	9.90	ppbv	97
6) Bromomethane	3.59	94	481604	10.18	ppbv	97
7) Chloroethane	3.68	64	285767	9.75	ppbv	97
8) Dichlorotetrafluoroethane	3.29	85	1691241	9.93	ppbv	99
9) Propene	3.11	41	477350	11.96	ppbv	98
10) Heptane	8.37	43	1593576	11.26	ppbv	99
11) Trichlorofluoromethane	4.09	101	2464829	10.25	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.65	101	1984589	12.03	ppbv	100
13) Ethanol	3.73	45	134220	8.60	ppbv	99
14) Bromoethene	3.87	108	546587	9.43	ppbv	98
15) Acetone	3.99	43	1399662	8.93	ppbv	99
16) 1,3-Butadiene	3.44	39	606908	10.61	ppbv	92
17) tert-Butyl alcohol	4.45	59	929304	12.37	ppbv	100
18) 1,1-Dichloroethene	4.44	96	788128	10.99	ppbv	93
19) Isopropyl Alcohol	4.11	45	1190327	11.48	ppbv	99
20) Methylene Chloride	4.50	84	833884	11.72	ppbv	98
21) Allyl Chloride	4.57	41	1461424	13.24	ppbv	99
22) trans-1,2-Dichloroethene	5.06	96	922238	11.96	ppbv	97
23) Vinyl Acetate	5.25	43	2399344	11.31	ppbv	99
24) 1,1-Dichloroethane	5.19	63	2118264	10.26	ppbv	99
25) Ethyl Acetate	5.87	43	3212188	10.35	ppbv	100
26) Hexane	5.88	57	1503634	10.43	ppbv	98
27) Carbon Disulfide	4.72	76	2543467	13.46	ppbv	100
28) Methyl tert-Butyl Ether	5.21	73	2092820	11.72	ppbv	99
29) Chloroform	5.95	83	2392502	9.83	ppbv	100
30) Cyclohexane	7.36	84	993574	11.67	ppbv	97
31) cis-1,2-Dichloroethene	5.75	61	1427727	11.00	ppbv	95
32) 1,1,1-Trichloroethane	6.73	97	1992460	10.05	ppbv	99
34) 2-Butanone	5.43	43	2165178	10.66	ppbv	99
35) Carbon Tetrachloride	7.25	117	2026729	9.20	ppbv	100
36) Benzene	7.12	78	2443859	10.77	ppbv	98
37) 1,2-Dichloroethane	6.52	62	1643420	10.03	ppbv	99
38) Trichloroethene	8.08	130	1000185	11.48	ppbv	98
39) 1,2-Dichloropropane	7.86	63	904614	10.81	ppbv	99
40) 1,4-Dioxane	8.08	88	366882	10.19	ppbv #	1
41) Tetrahydrofuran	6.26	42	974081m	11.16	ppbv	
42) Bromodichloromethane	8.04	83	2090937	10.22	ppbv	94
43) Methyl Methacrylate	8.25	69	926154	11.72	ppbv	98

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Manual Integrations
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Quant Time: Jun 03 14:18:24 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.11	57	4095597	10.54	ppbv	99
45) t-1,3-Dichloropropene	9.54	75	1327233	12.42	ppbv	100
46) cis-1,3-Dichloropropene	8.96	75	1624749	11.97	ppbv	98
47) 1,1,2-Trichloroethane	9.74	97	995102	9.63	ppbv	94
48) Dibromochloromethane	10.58	129	1719242	10.05	ppbv	99
49) Bromoform	13.33	173	1351123	10.06	ppbv	99
50) 4-Methyl-2-Pentanone	8.99	43	2125657	10.76	ppbv	100
51) 2-Hexanone	10.39	43	1965640	11.09	ppbv #	100
52) Tetrachloroethene	11.50	164	914399	10.15	ppbv	99
53) Toluene	10.07	91	2805279	11.05	ppbv	100
54) 1,2-Dibromoethane	10.89	107	1522908	10.07	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.41	131	1167118	9.38	ppbv	98
57) Chlorobenzene	12.43	112	2175854	9.24	ppbv	98
58) Ethyl Benzene	12.99	91	3883487	10.71	ppbv	98
59) m/p-Xylene	13.28	91	6417326m	20.19	ppbv	
60) o-Xylene	13.98	91	3249387	10.19	ppbv	99
61) Styrene	13.81	104	782585	12.70	ppbv	99
62) Isopropylbenzene	14.95	105	4075009	10.02	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.96	83	2116391	8.57	ppbv	99
64) n-propylbenzene	15.85	120	1028630	10.13	ppbv	99
65) tert-Butylbenzene	17.03	119	3524669	9.92	ppbv	100
66) Benzyl Chloride	17.29	91	366025	9.27	ppbv	96
67) sec-Butylbenzene	17.58	105	4961236	9.62	ppbv	100
69) p-Isopropyltoluene	17.94	119	4031230	10.09	ppbv	99
70) n-Butylbenzene	18.84	91	4107314	9.98	ppbv	100
71) 2-Chlorotoluene	15.75	91	3107298	10.40	ppbv	99
72) 4-Ethyltoluene	16.12	105	3444434	10.86	ppbv	99
73) 1,3,5-Trimethylbenzene	16.28	105	3053765	10.43	ppbv	100
74) 1,2,4-Trimethylbenzene	17.05	105	3223772	9.77	ppbv	96
75) 1,3-Dichlorobenzene	17.30	146	2019318	8.91	ppbv	99
76) 1,4-Dichlorobenzene	17.44	146	2038712	9.44	ppbv	99
77) 1,2-Dichlorobenzene	18.12	146	1957005	9.13	ppbv	100
78) Hexachloro-1,3-Butadiene	23.66	225	722033	8.49	ppbv	99
79) Naphthalene	22.56	128	2333168	12.49	ppbv	99
80) Naphthalene, 2-methyl-	25.21	142	1190491	25.84	ppbv	100
81) 1,2,4-Trichlorobenzene	22.28	180	1208879	11.03	ppbv	99

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

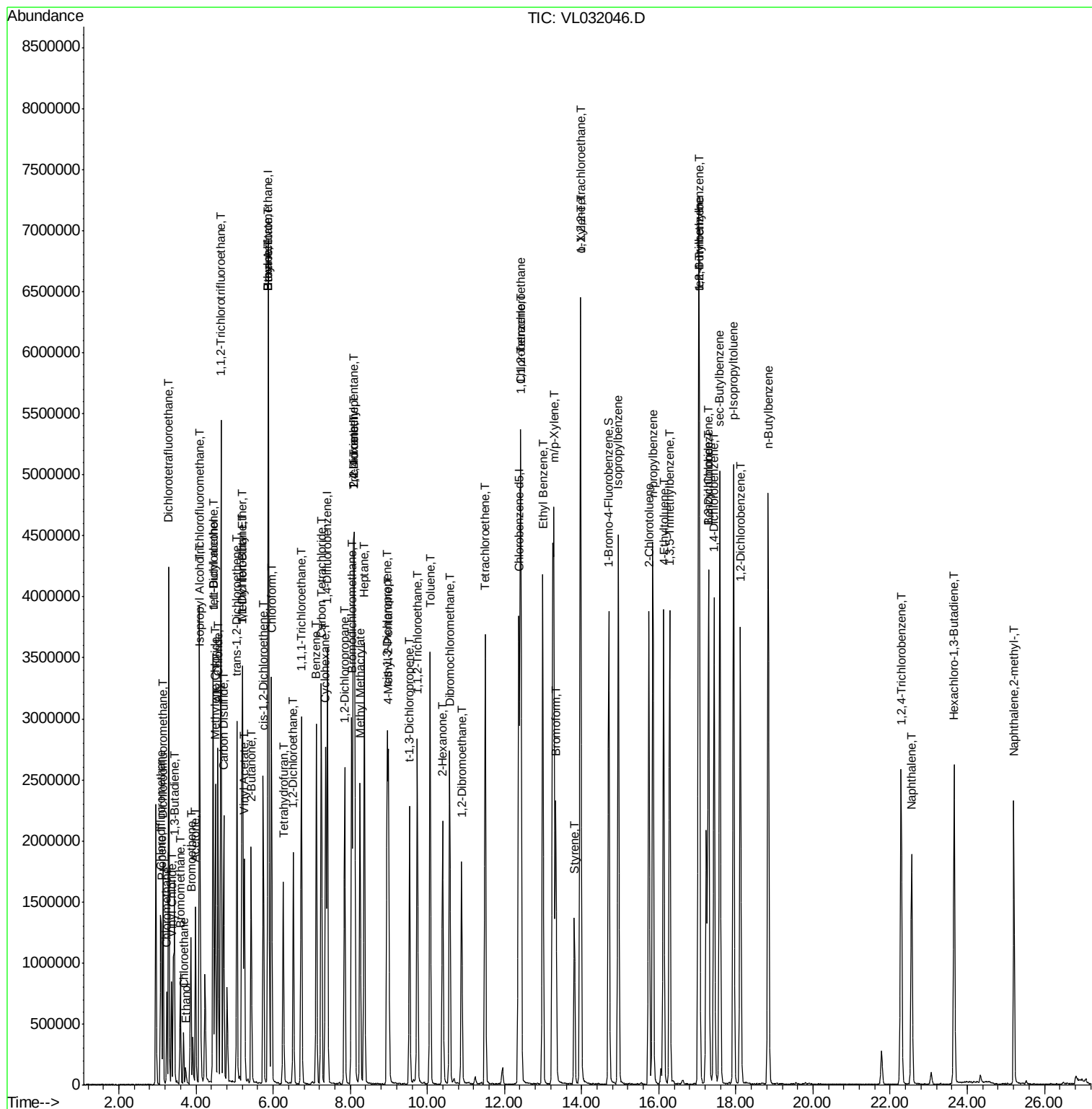
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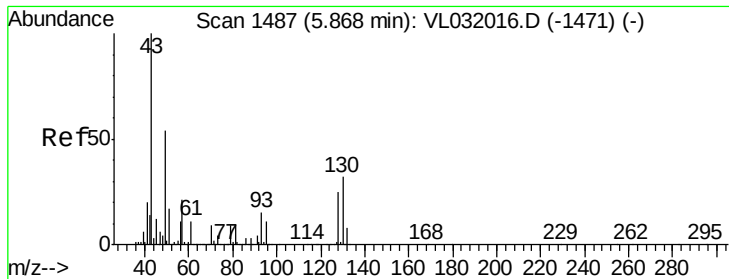
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun
QLast Update : Fri Jun 01 02:31:35 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.87 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1299152

Ion Ratio Lower Upper

49 100

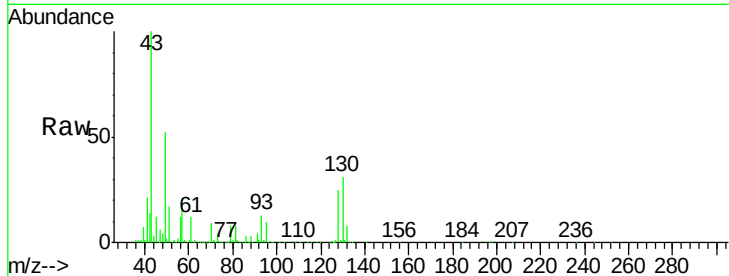
128 49.1 24.1 72.3

130 61.7 30.9 92.8

Manual Integrations
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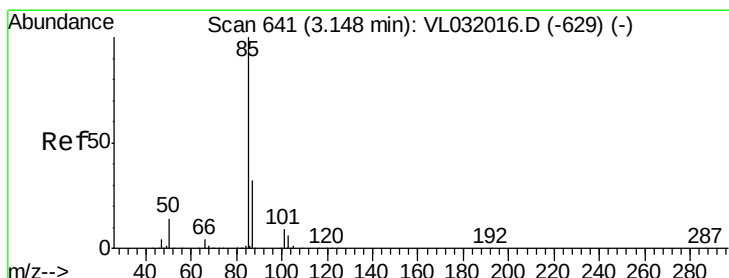
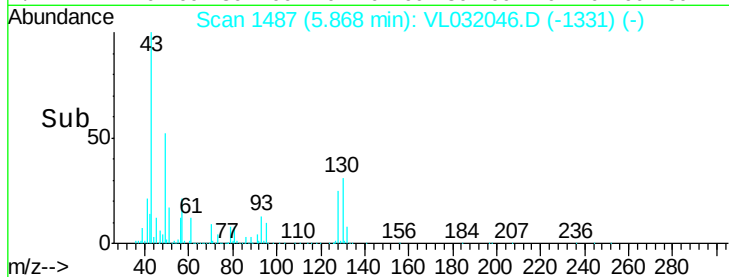
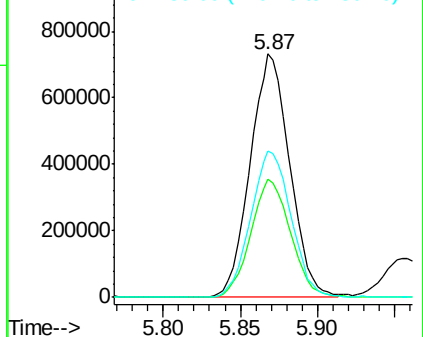
6/4/2018 3:36:03 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 8.38 ppbv

RT: 3.15 min Scan# 641

Delta R.T. 0.00 min

Lab File: VL032046.D

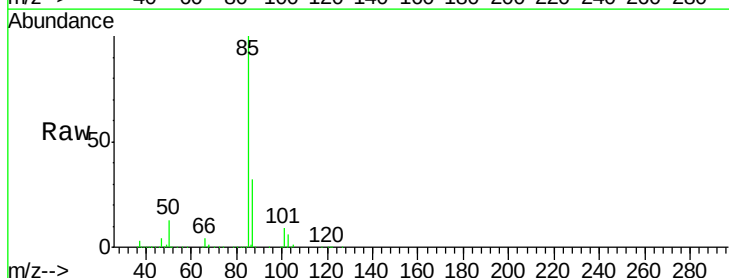
Acq: 2 Jun 2018 9:05

Tgt Ion: 85 Resp: 1309389

Ion Ratio Lower Upper

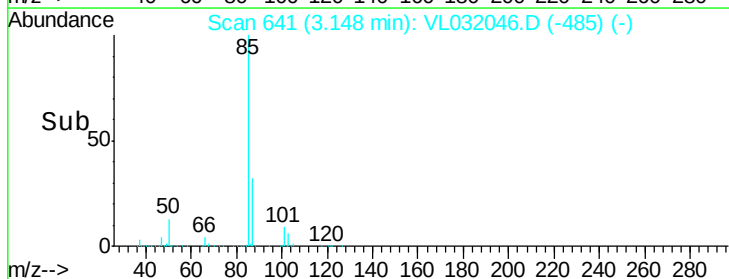
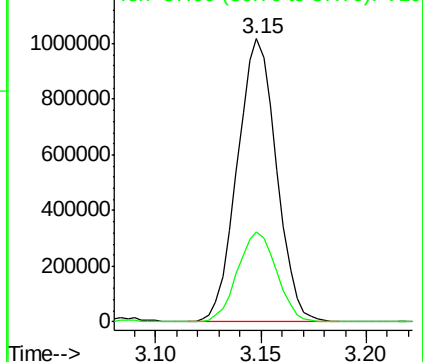
85 100

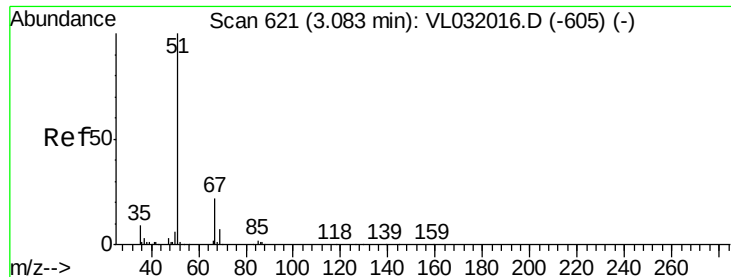
87 31.6 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 10.09 ppbv

RT: 3.09 min Scan# 622

Delta R.T. 0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

Tot Ion: 51 Resp: 1233271

Ion Ratio Lower Upper

51 100

67 20.5 17.2 25.8

Instrument :

MSVOA_L

ClientSampleId :

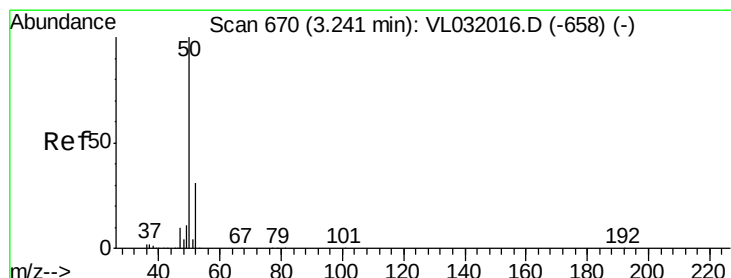
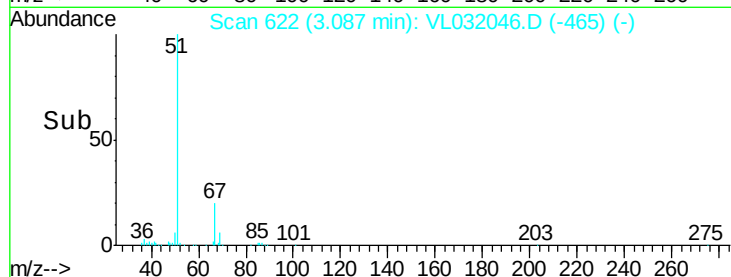
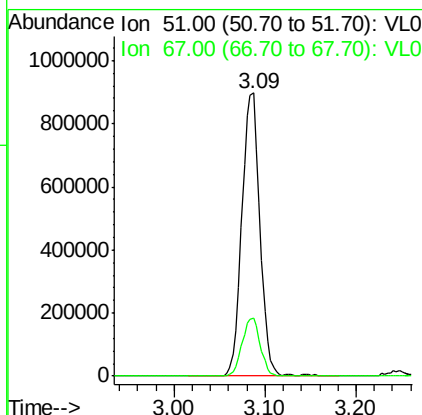
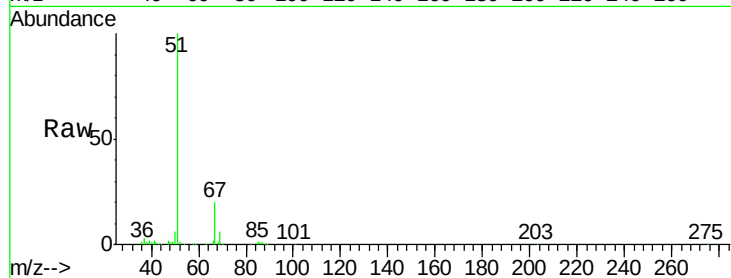
VSTDCCC010EC

Manual Integrations

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#4

Chloromethane

Concen: 10.67 ppbv

RT: 3.24 min Scan# 671

Delta R.T. 0.00 min

Lab File: VL032046.D

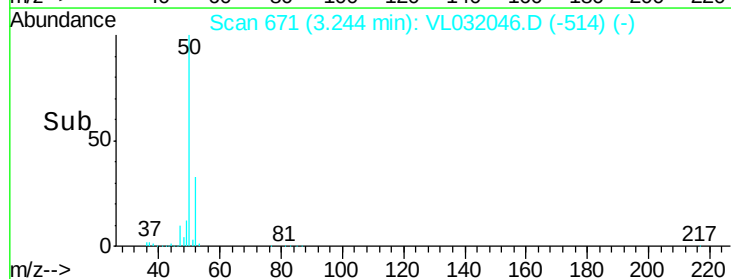
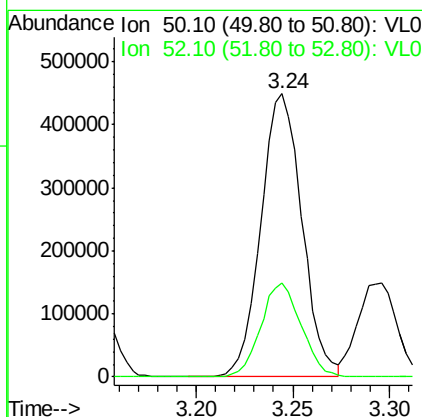
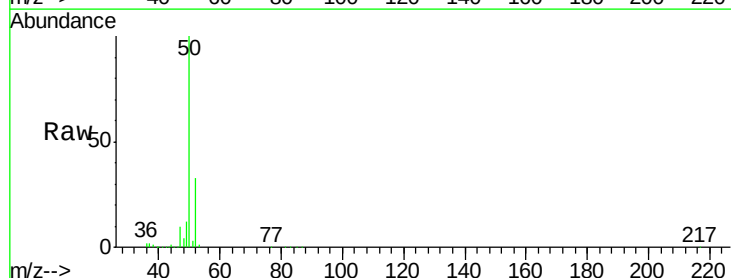
Acq: 2 Jun 2018 9:05

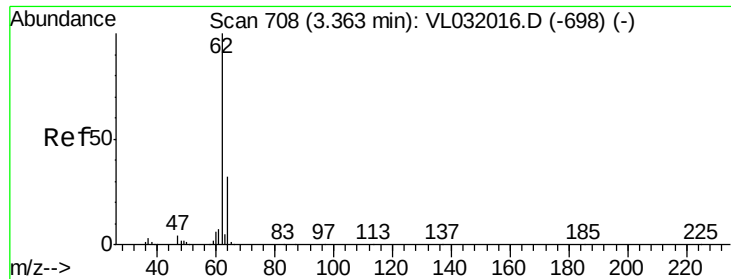
Tgt Ion: 50 Resp: 661666

Ion Ratio Lower Upper

50 100

52 33.2 25.0 37.6





#5

Vinyl Chloride

Concen: 9.90 ppbv

RT: 3.37 min Scan# 709

Delta R.T. 0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 681450

Ion Ratio Lower Upper

62 100

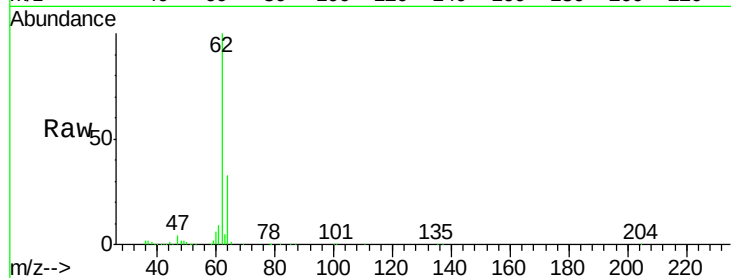
64 33.2 25.2 37.8

Manual Integrations

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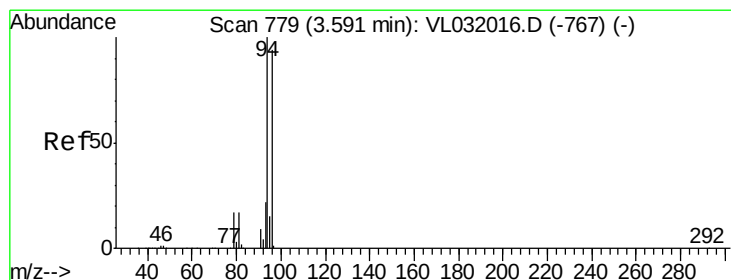
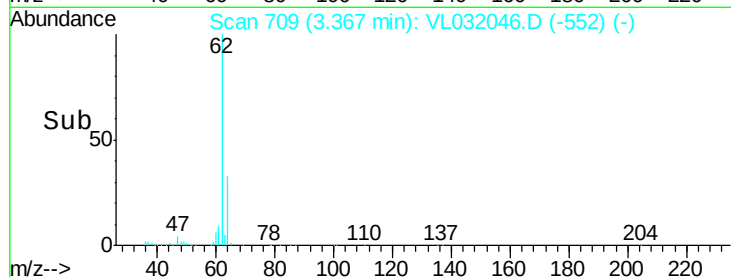
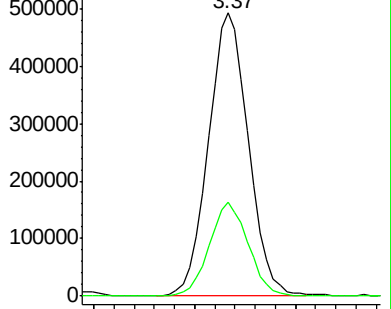
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.18 ppbv

RT: 3.59 min Scan# 780

Delta R.T. 0.00 min

Lab File: VL032046.D

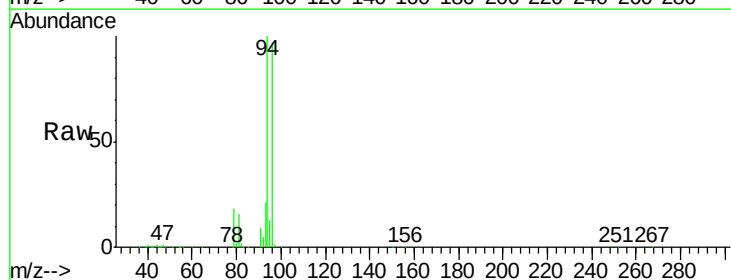
Acq: 2 Jun 2018 9:05

Tgt Ion: 94 Resp: 481604

Ion Ratio Lower Upper

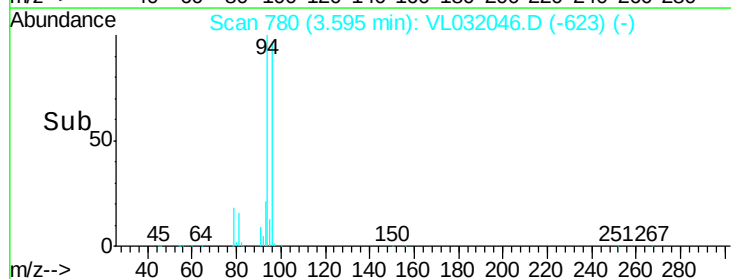
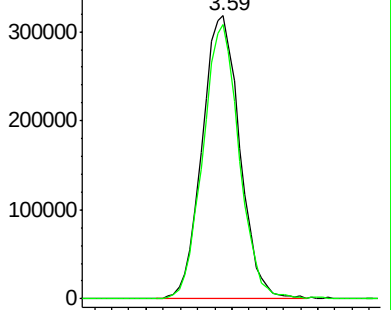
94 100

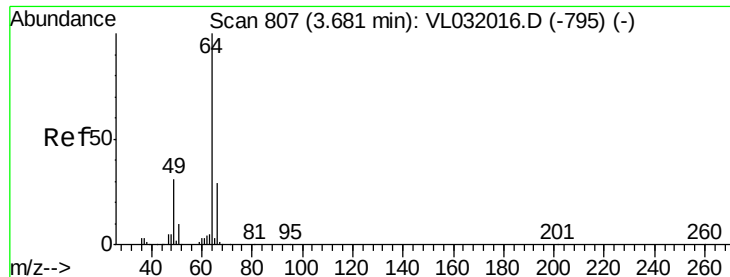
96 96.9 75.1 112.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.75 ppbv

RT: 3.68 min Scan# 807

Delta R.T. 0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

Instrument :

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ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 285767

Ion Ratio Lower Upper

64 100

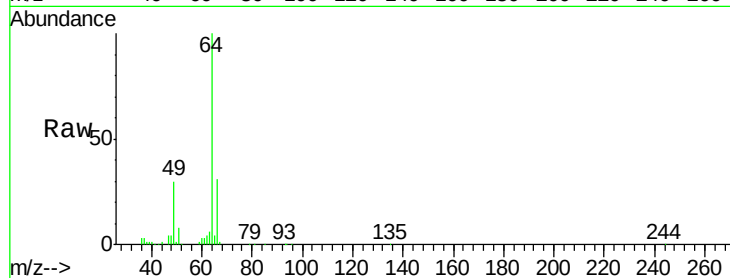
66 30.9 23.4 35.2

Manual Integrations

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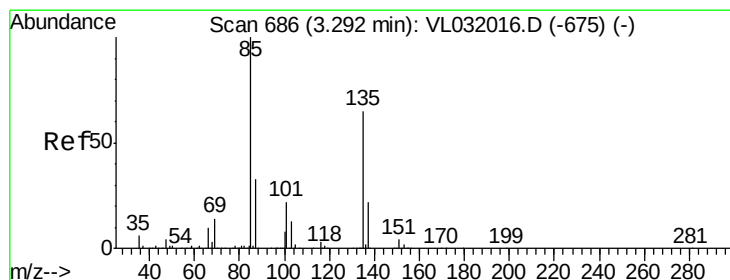
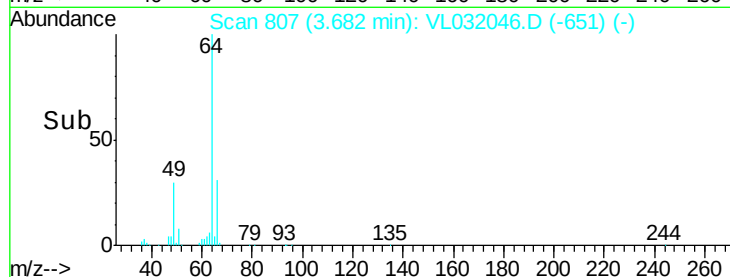
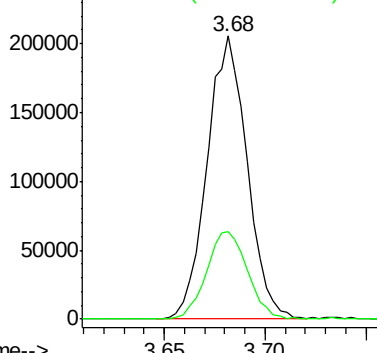
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.93 ppbv

RT: 3.29 min Scan# 686

Delta R.T. 0.00 min

Lab File: VL032046.D

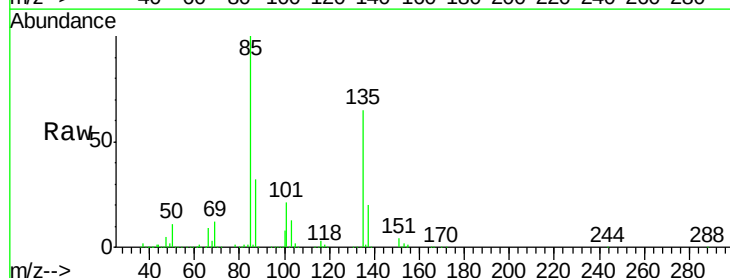
Acq: 2 Jun 2018 9:05

Tgt Ion: 85 Resp: 1691241

Ion Ratio Lower Upper

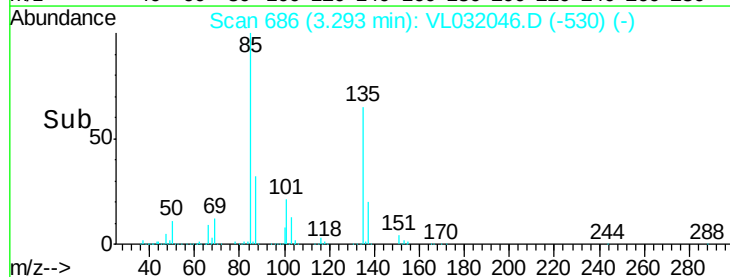
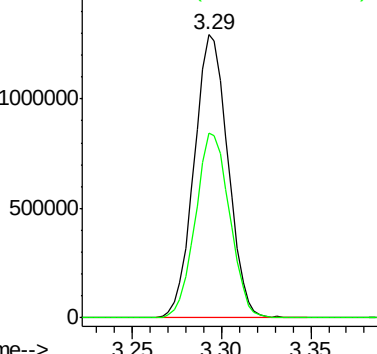
85 100

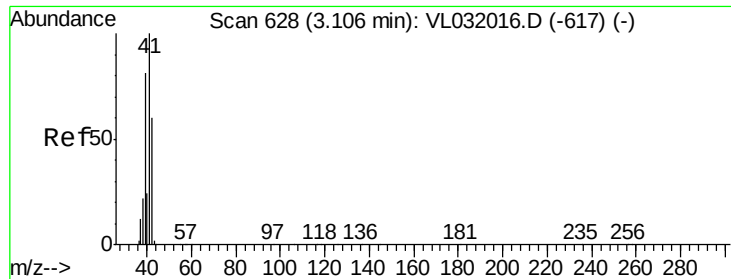
135 66.4 52.6 79.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 11.96 ppbv

RT: 3.11 min Scan# 628

Delta R.T. 0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 477350

Ion Ratio Lower Upper

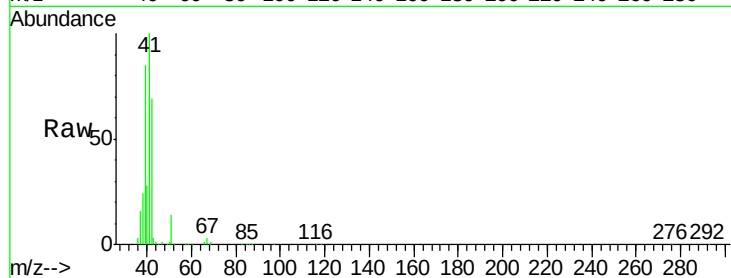
41 100

42 69.9 54.4 81.6

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6/4/2018 3:36:03 PM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.11

400000

300000

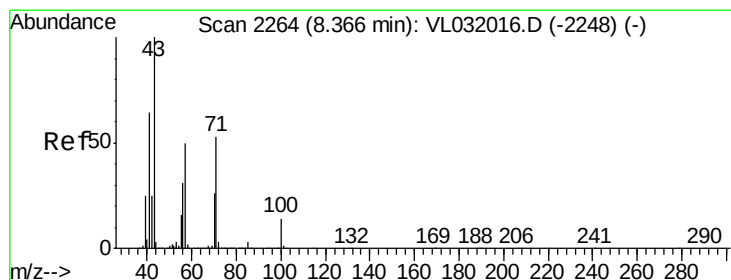
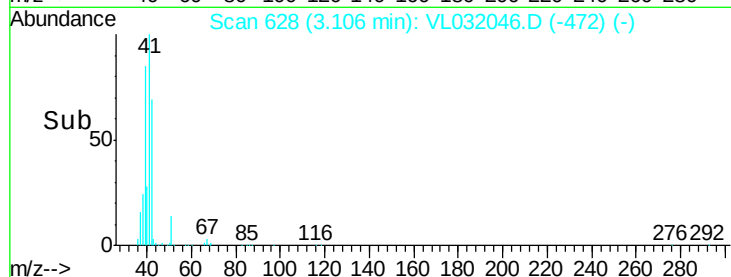
200000

100000

0

3.05 3.10 3.15

Time-->



#10

Heptane

Concen: 11.26 ppbv

RT: 8.37 min Scan# 2264

Delta R.T. 0.00 min

Lab File: VL032046.D

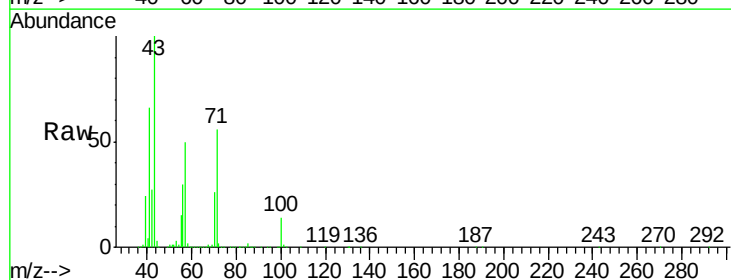
Acq: 2 Jun 2018 9:05

Tgt Ion: 43 Resp: 1593576

Ion Ratio Lower Upper

43 100

57 51.6 41.7 62.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.37

800000

600000

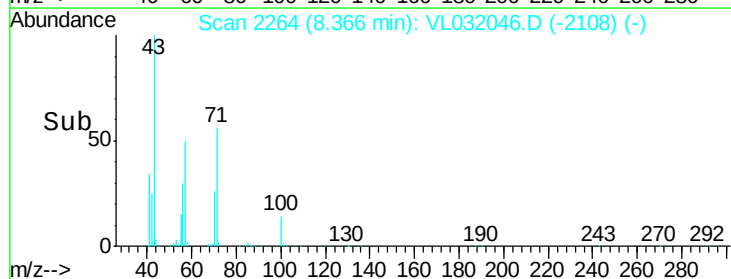
400000

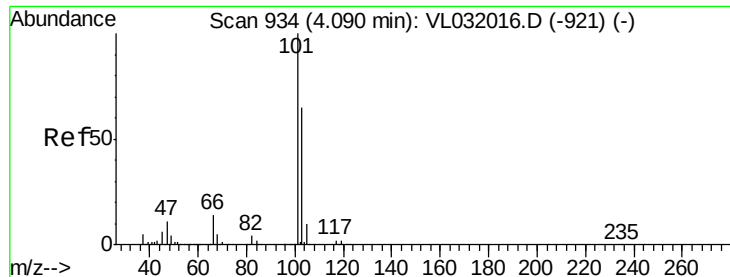
200000

0

8.30 8.35 8.40 8.45

Time-->





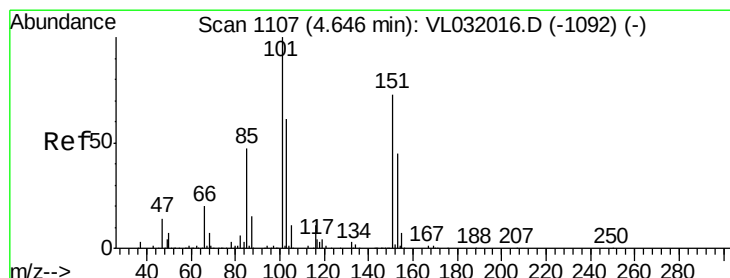
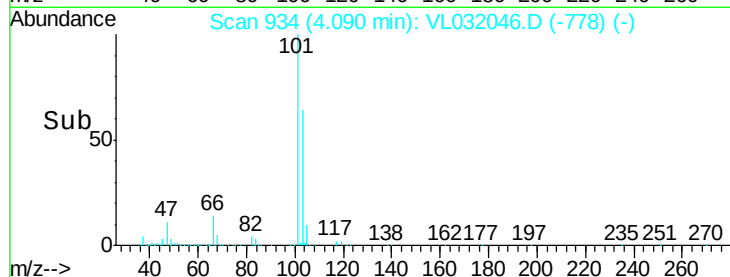
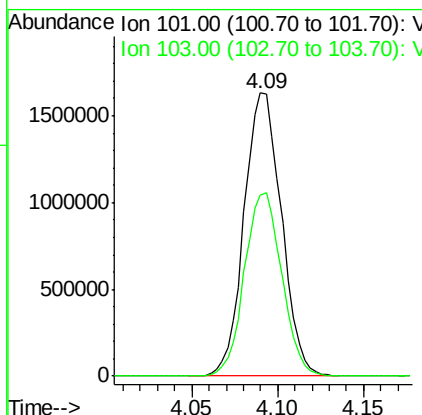
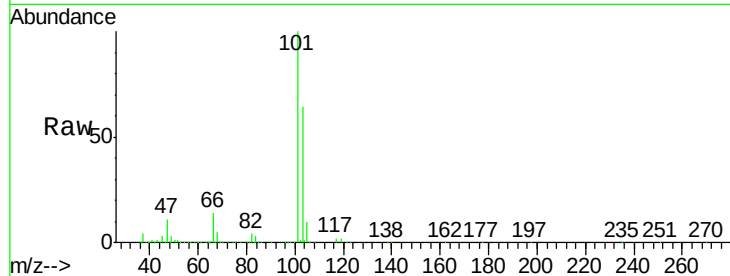
#11
 Trichlorofluoromethane
 Concen: 10.25 ppbv
 RT: 4.09 min Scan# 934
 Delta R.T. 0.00 min
 Lab File: VL032046.D
 Acq: 2 Jun 2018 9:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 2464829
 Ion Ratio Lower Upper
 101 100
 103 64.1 52.0 78.0

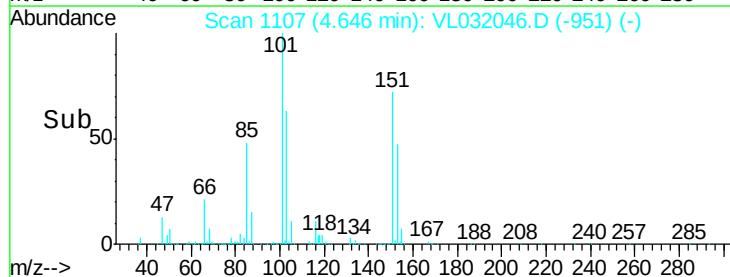
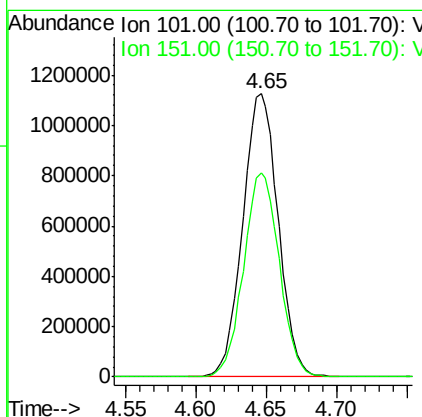
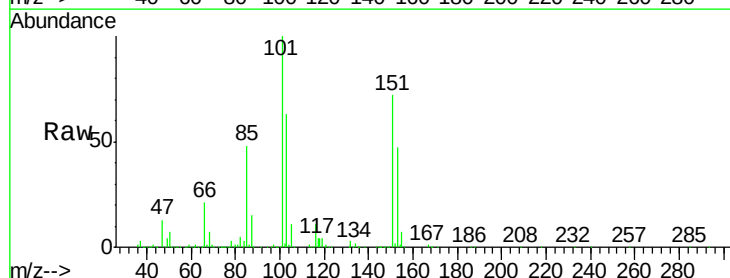
Manual Integrations
 APPROVED

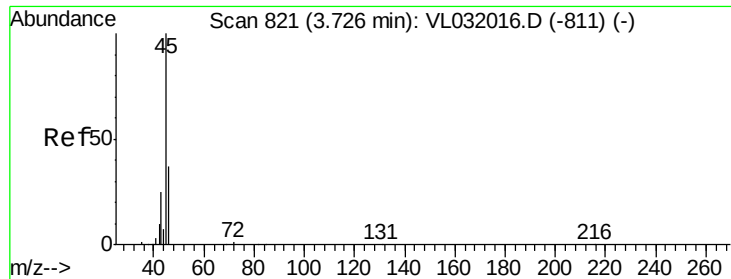
MMDadoda
 6/4/2018 3:36:03 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 12.03 ppbv
 RT: 4.65 min Scan# 1107
 Delta R.T. 0.00 min
 Lab File: VL032046.D
 Acq: 2 Jun 2018 9:05

Tgt Ion:101 Resp: 1984589
 Ion Ratio Lower Upper
 101 100
 151 72.8 58.2 87.4





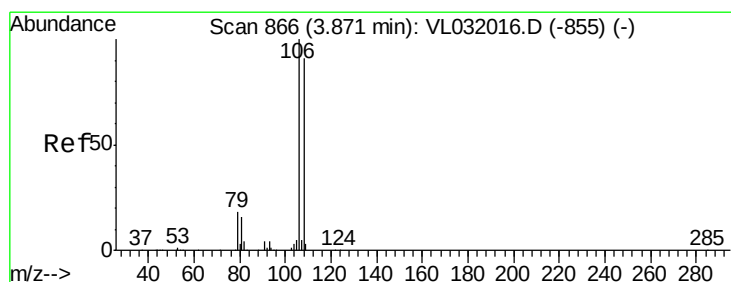
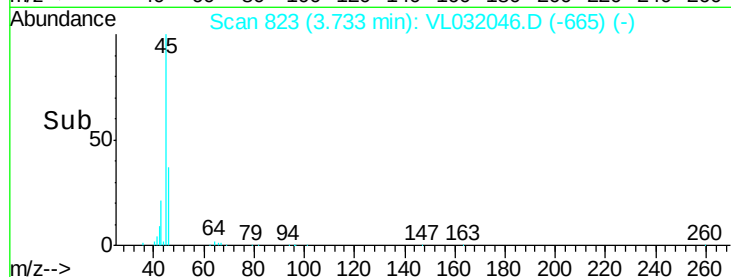
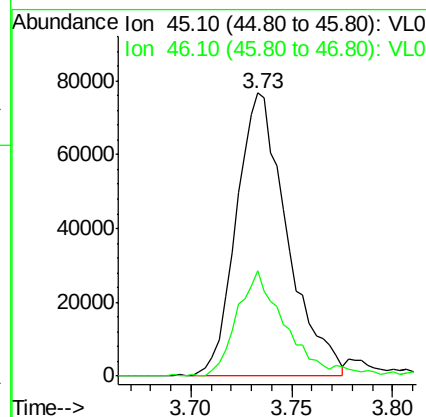
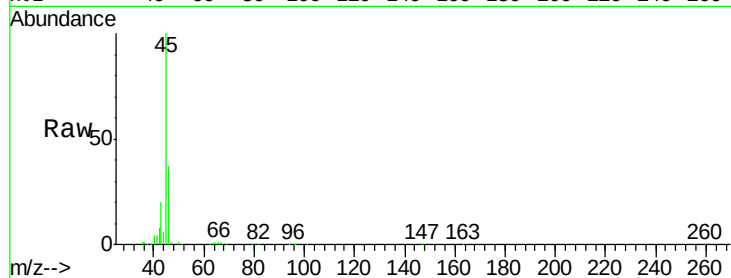
#13
Ethanol
Concen: 8.60 ppbv
RT: 3.73 min Scan# 823
Delta R.T. 0.01 min
Lab File: VL032046.D
Acq: 2 Jun 2018 9:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 45 Resp: 134220
Ion Ratio Lower Upper
45 100
46 36.5 14.9 59.5

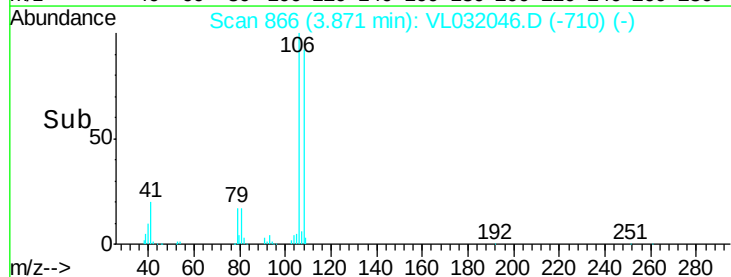
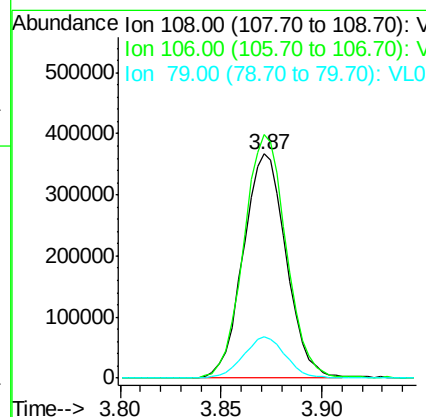
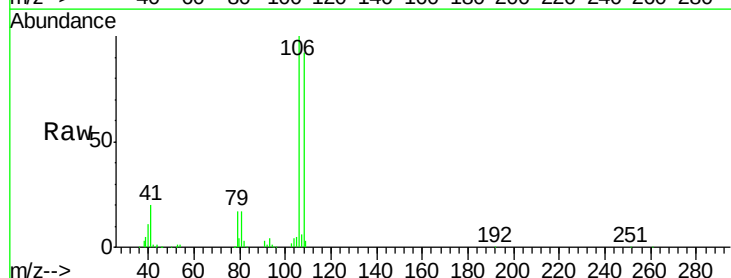
Manual Integrations
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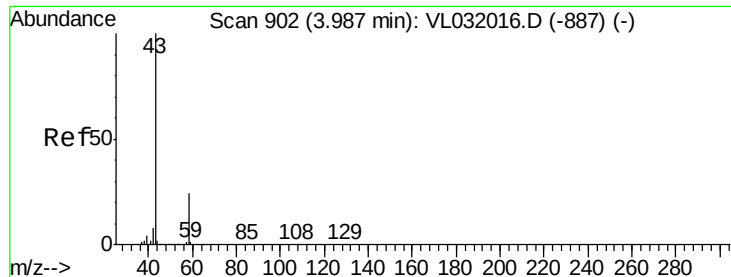
MMDadoda
6/4/2018 3:36:03 PM



#14
Bromoethene
Concen: 9.43 ppbv
RT: 3.87 min Scan# 866
Delta R.T. 0.00 min
Lab File: VL032046.D
Acq: 2 Jun 2018 9:05

Tgt Ion: 108 Resp: 546587
Ion Ratio Lower Upper
108 100
106 108.3 85.1 127.7
79 18.3 15.2 22.8





#15

Acetone

Concen: 8.93 ppbv

RT: 3.99 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1399662

Ion Ratio Lower Upper

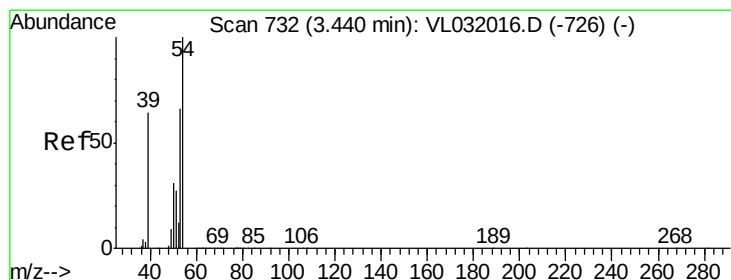
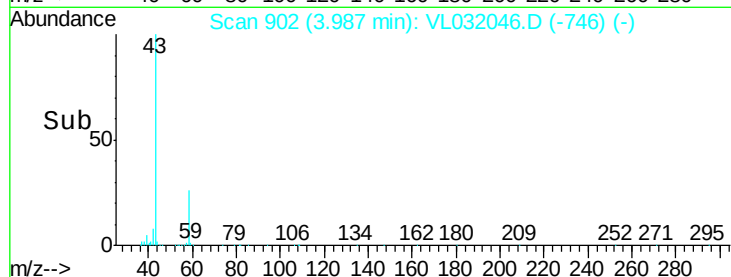
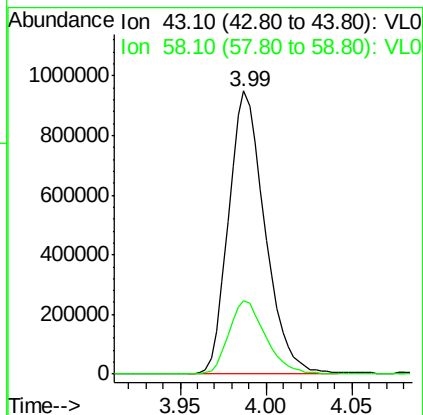
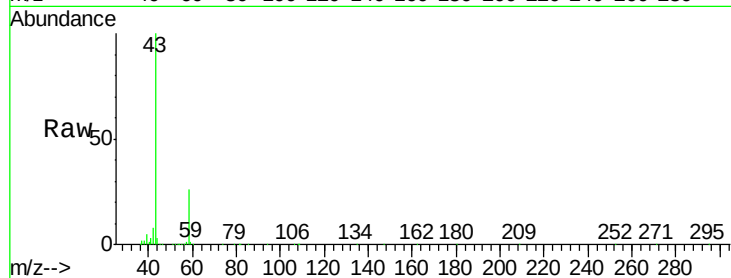
43 100

58 26.5 20.7 31.1

Manual Integrations
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MMDadoda

6/4/2018 3:36:03 PM



#16

1,3-Butadiene

Concen: 10.61 ppbv

RT: 3.44 min Scan# 732

Delta R.T. 0.00 min

Lab File: VL032046.D

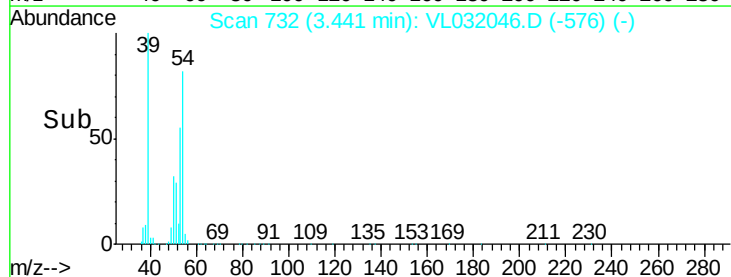
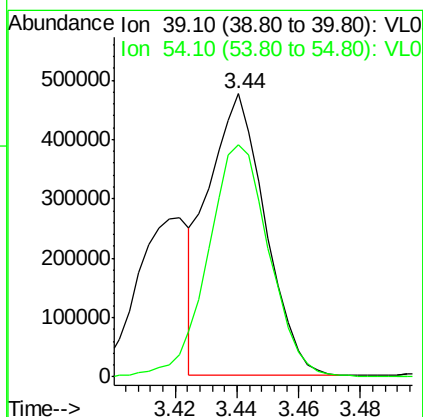
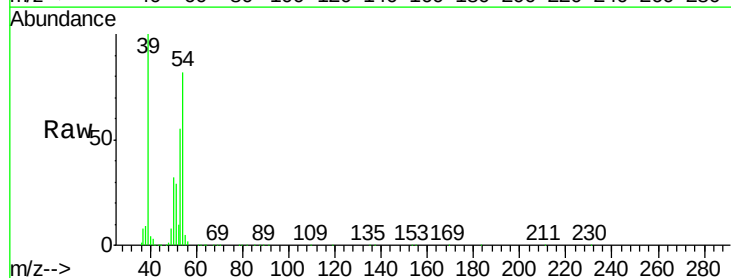
Acq: 2 Jun 2018 9:05

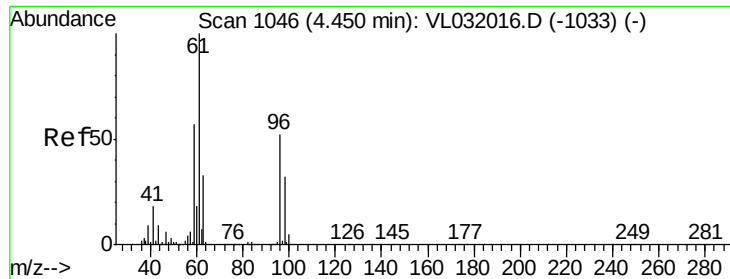
Tgt Ion: 39 Resp: 606908

Ion Ratio Lower Upper

39 100

54 89.3 65.7 98.5





#17

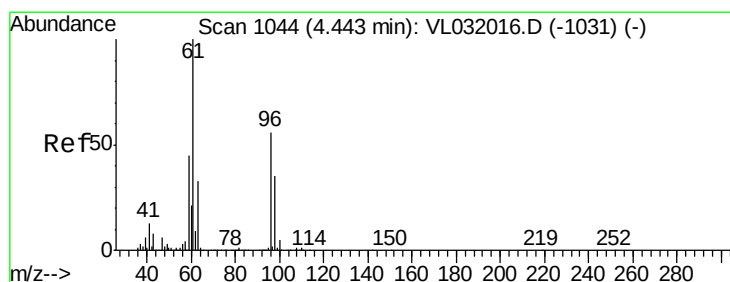
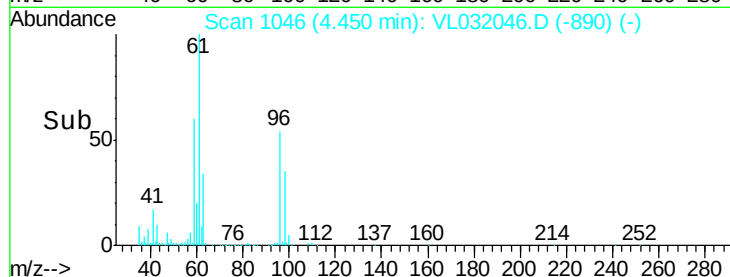
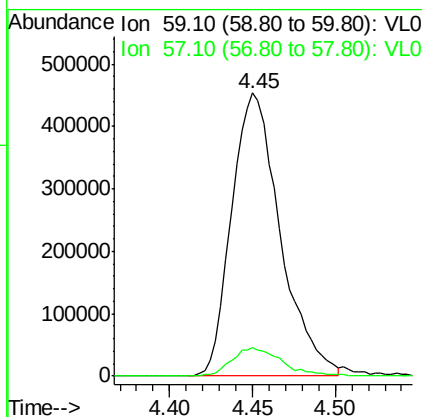
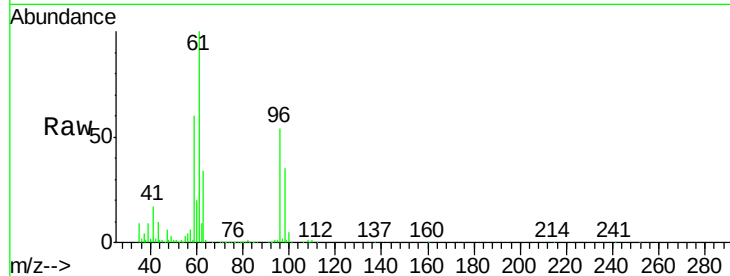
tert-Butyl alcohol
Concen: 12.37 ppbv
RT: 4.45 min Scan# 1046
Delta R.T. 0.00 min
Lab File: VL032046.D
Acq: 2 Jun 2018 9:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	59	Resp	929304
Ion Ratio	59	100	
Lower	57	10.5	8.3
Upper			12.5

Manual Integrations
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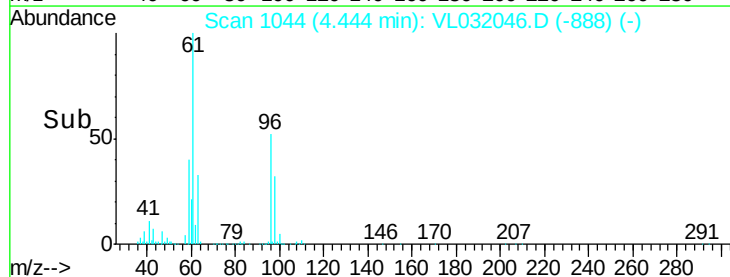
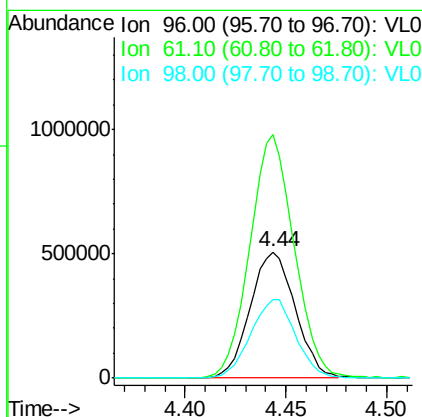
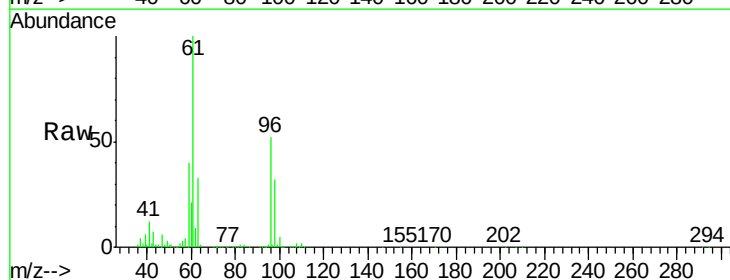
MMDadoda
6/4/2018 3:36:03 PM

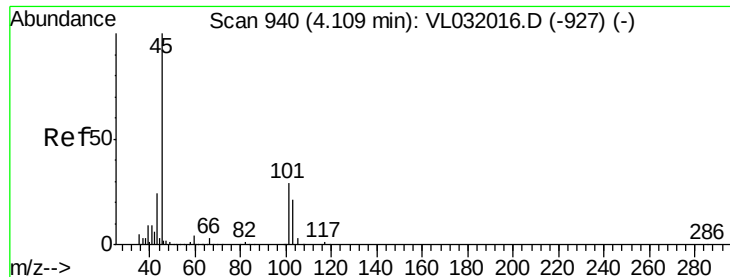


#18

1,1-Dichloroethene
Concen: 10.99 ppbv
RT: 4.44 min Scan# 1044
Delta R.T. 0.00 min
Lab File: VL032046.D
Acq: 2 Jun 2018 9:05

Tgt Ion	96	Resp	788128
Ion Ratio	96	100	
Lower	61	193.1	143.5
Upper	98	62.2	50.0





#19

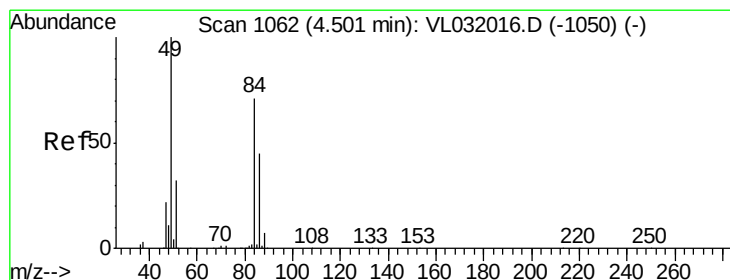
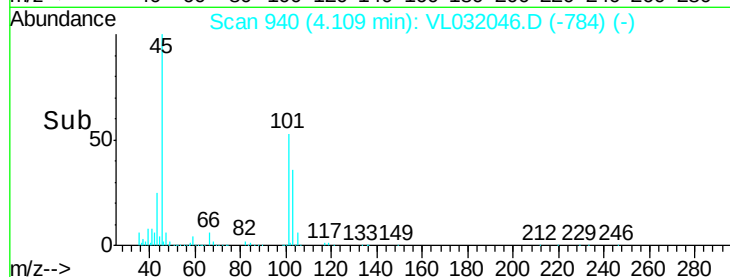
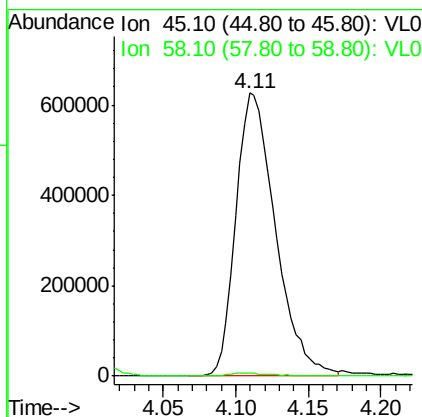
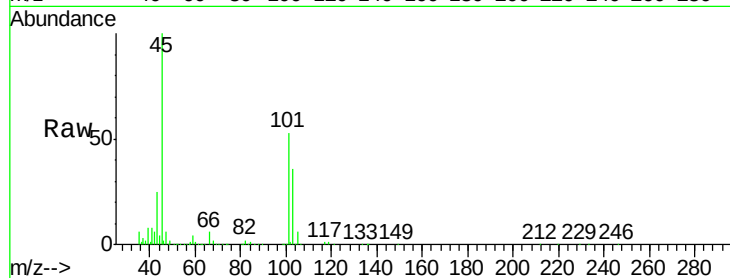
Isopropyl Alcohol
 Concen: 11.48 ppbv
 RT: 4.11 min Scan# 940
 Delta R.T. 0.00 min
 Lab File: VL032046.D
 Acq: 2 Jun 2018 9:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 45 Resp: 1190327
 Ion Ratio Lower Upper
 45 100
 58 1.5 1.5 2.3

Manual Integrations
 APPROVED

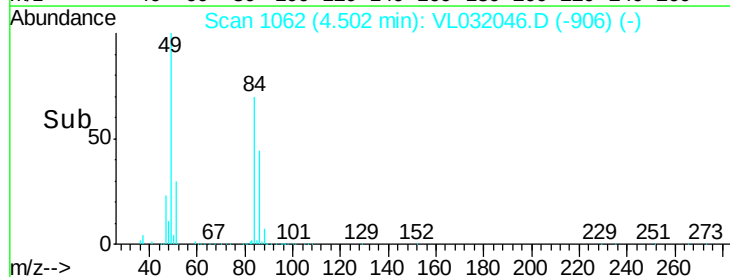
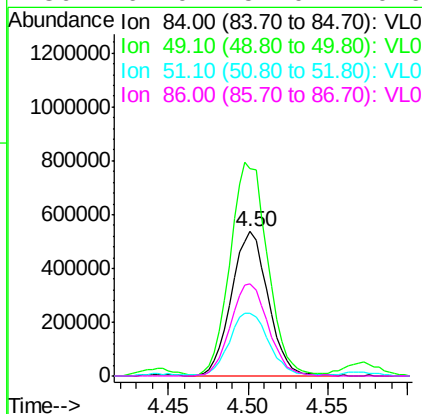
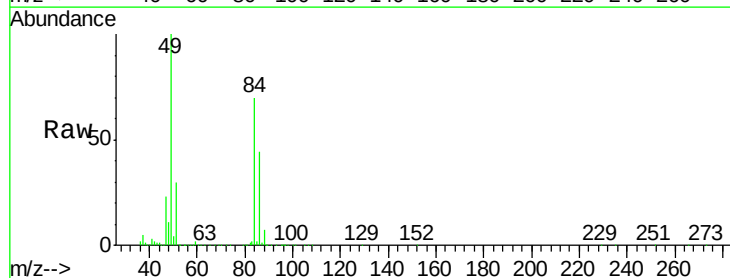
MMDadoda
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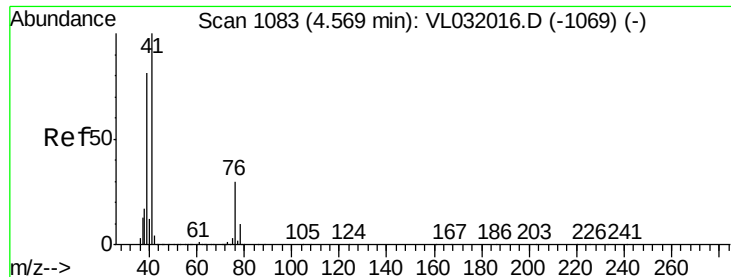


#20

Methylene Chloride
 Concen: 11.72 ppbv
 RT: 4.50 min Scan# 1062
 Delta R.T. 0.00 min
 Lab File: VL032046.D
 Acq: 2 Jun 2018 9:05

Tgt Ion: 84 Resp: 833884
 Ion Ratio Lower Upper
 84 100
 49 143.2 113.0 169.4
 51 43.0 36.4 54.6
 86 64.0 51.0 76.6





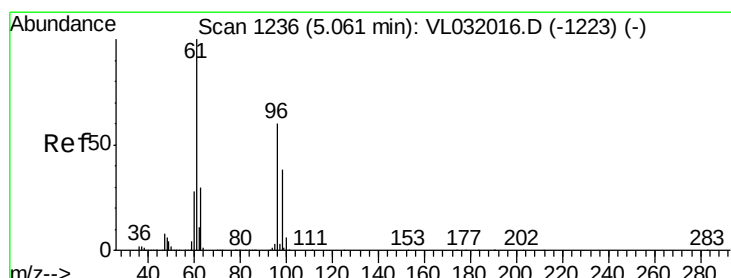
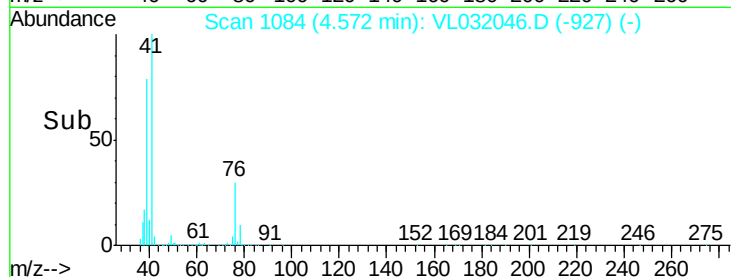
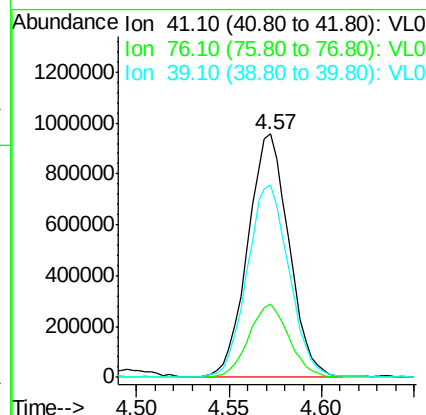
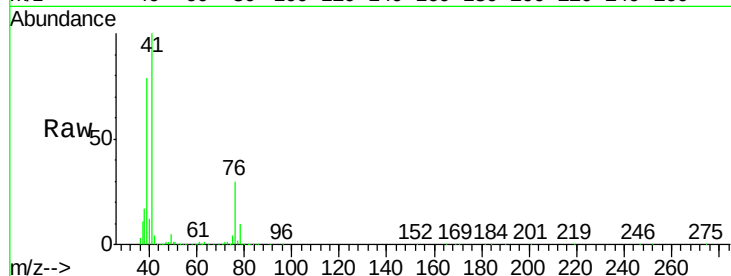
#21
 Allvl Chloride
 Concen: 13.24 ppbv
 RT: 4.57 min Scan# 1084
 Delta R.T. 0.00 min
 Lab File: VL032046.D
 Acq: 2 Jun 2018 9:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.0	23.9	35.9
39	81.5	65.9	98.9

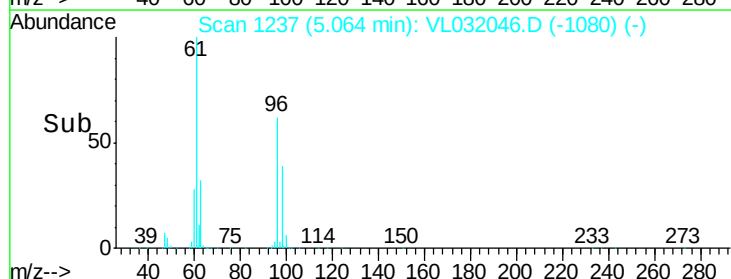
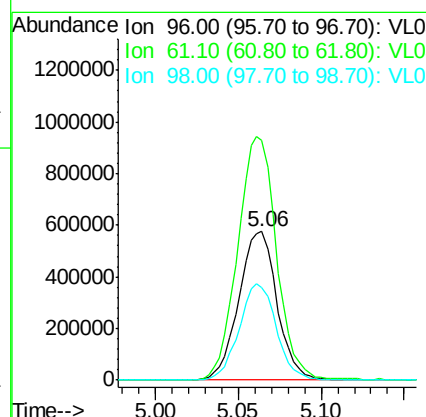
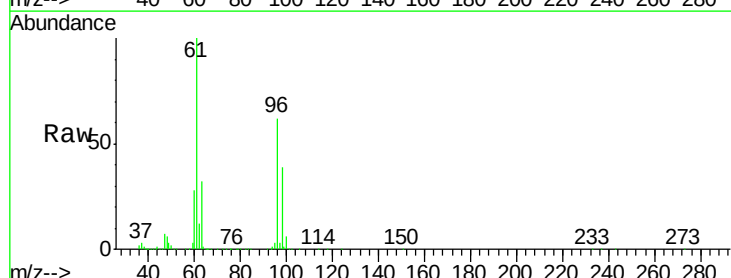
Manual Integrations
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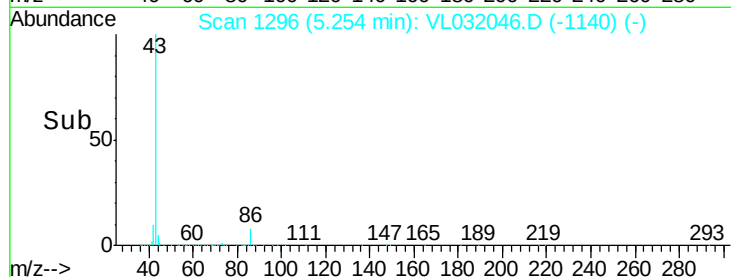
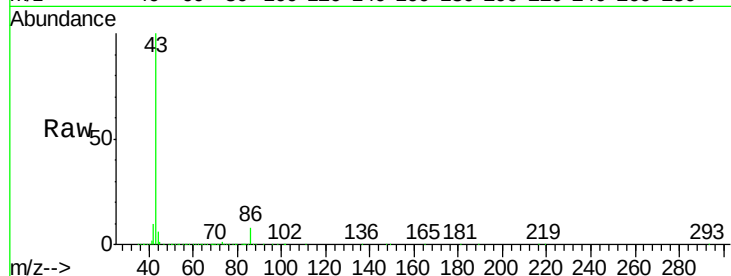
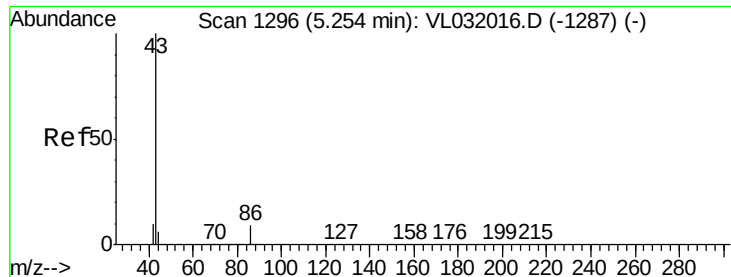
MMDadoda
 6/4/2018 3:36:03 PM



#22
 trans-1,2-Dichloroethene
 Concen: 11.96 ppbv
 RT: 5.06 min Scan# 1237
 Delta R.T. 0.00 min
 Lab File: VL032046.D
 Acq: 2 Jun 2018 9:05

Tgt Ion	Ratio	Lower	Upper
96	100		
61	161.4	133.3	199.9
98	62.5	51.0	76.4





#23

Vinyl Acetate

Concen: 11.31 ppbv

RT: 5.25 min Scan# 1296

Delta R.T. 0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

Tot Ion: 43 Resp: 2399344

Ion Ratio Lower Upper

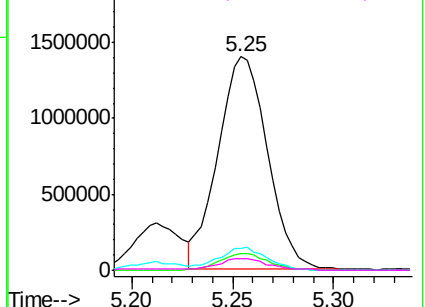
43 100

86 7.9 6.2 9.4

42 10.0 8.7 13.1

44 5.6 4.6 6.8

Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



Instrument :

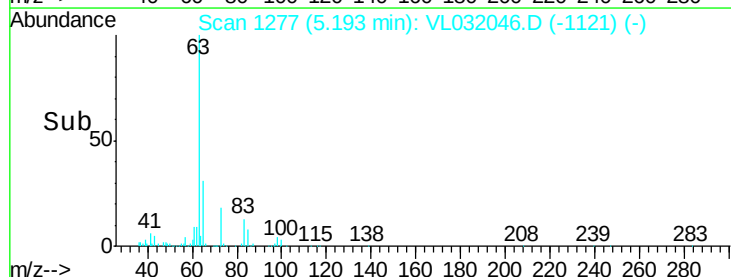
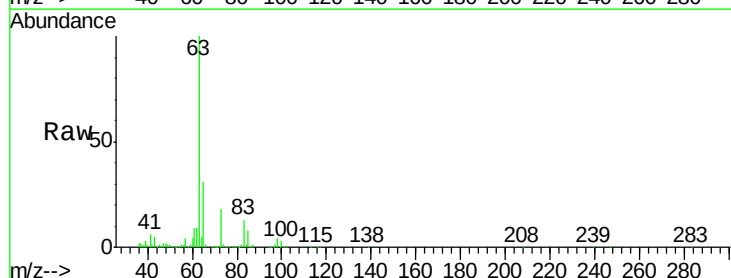
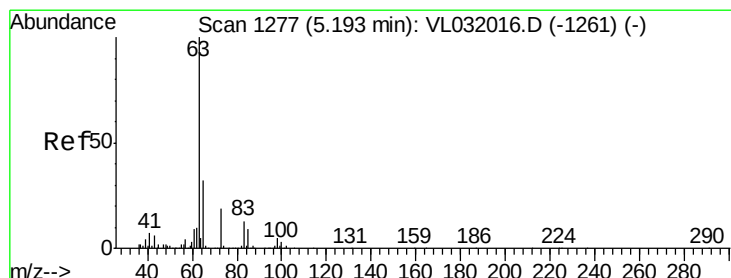
MSVOA_L

ClientSampleId :

VSTDCCC010EC

Manual Integrations
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MMDadoda
6/4/2018 3:36:03 PM



#24

1,1-Dichloroethane

Concen: 10.26 ppbv

RT: 5.19 min Scan# 1277

Delta R.T. 0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

Tgt Ion: 63 Resp: 2118264

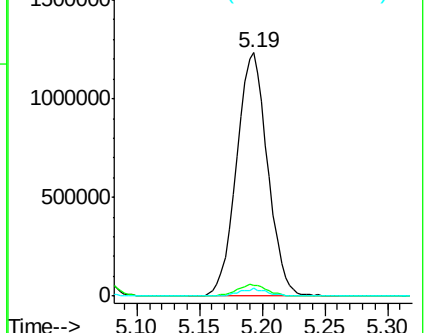
Ion Ratio Lower Upper

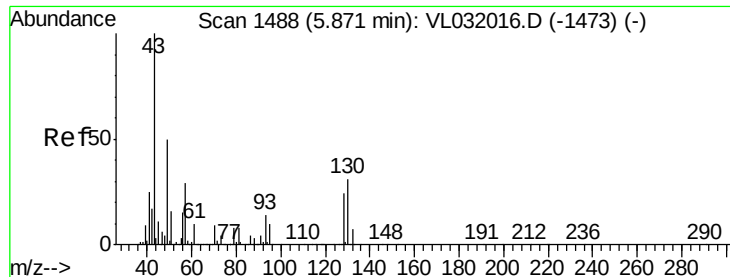
63 100

98 4.2 2.4 7.1

100 3.1 1.5 4.5

Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0





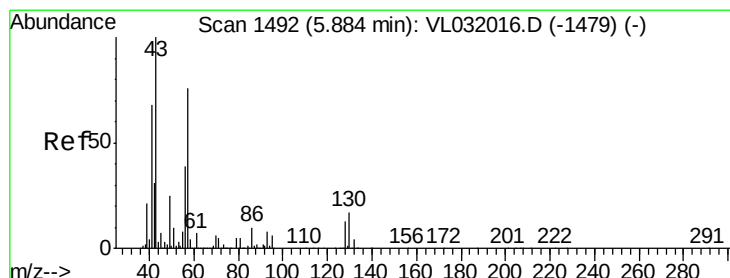
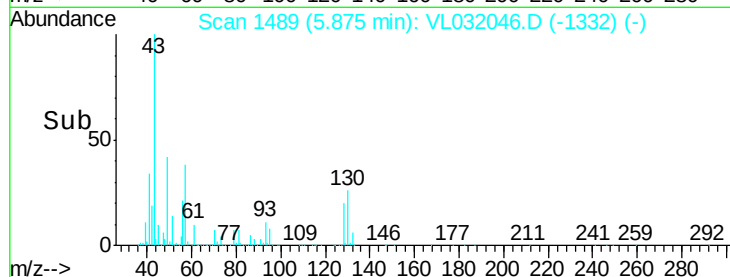
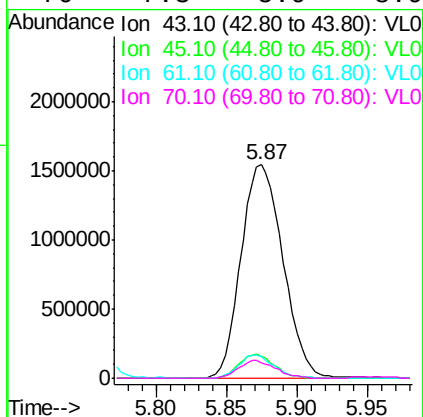
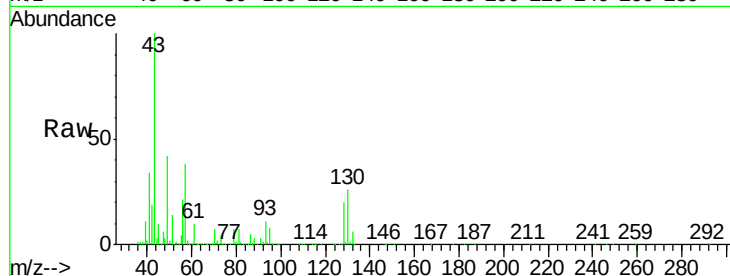
#25
Ethyl Acetate
Concen: 10.35 ppbv
RT: 5.87 min Scan# 1489
Delta R.T. 0.00 min
Lab File: VL032046.D
Acq: 2 Jun 2018 9:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	43	Resp	3212188
Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.8	11.6
61	9.2	7.4	11.2
70	7.3	5.9	8.9

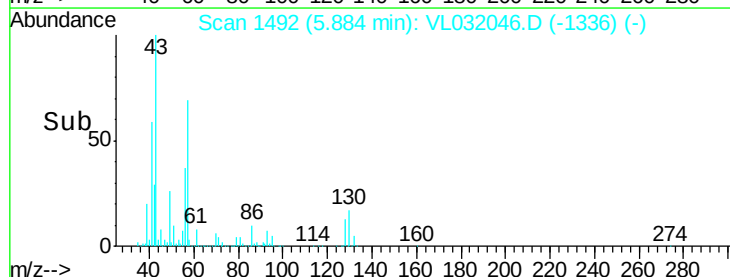
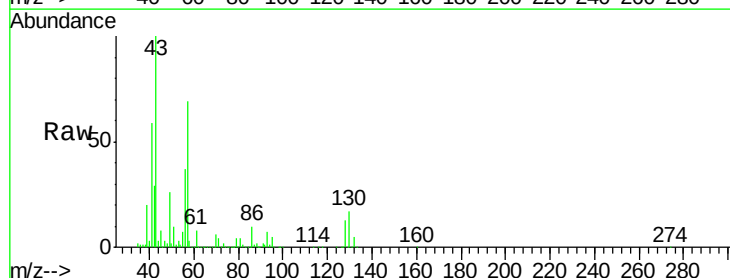
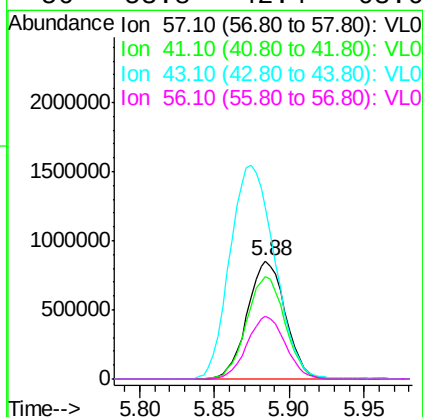
Manual Integrations
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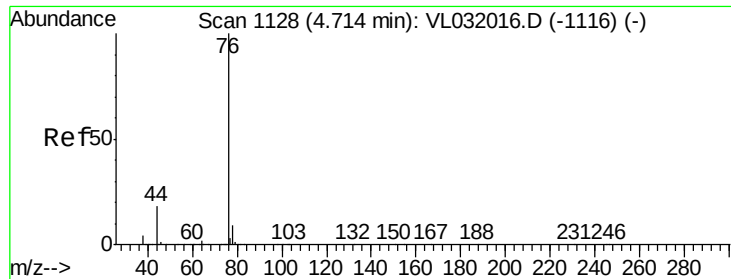
MMDadoda
6/4/2018 3:36:03 PM



#26
Hexane
Concen: 10.43 ppbv
RT: 5.88 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VL032046.D
Acq: 2 Jun 2018 9:05

Tgt Ion	57	Resp	1503634
Ion	Ratio	Lower	Upper
57	100		
41	87.9	71.4	107.2
43	214.7	168.6	252.8
56	53.8	42.4	63.6





#27

Carbon Disulfide

Concen: 13.46 ppbv

RT: 4.72 min Scan# 1129

Delta R.T. 0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 2543467

Ion Ratio Lower Upper

76 100

44 18.8 14.9 22.3

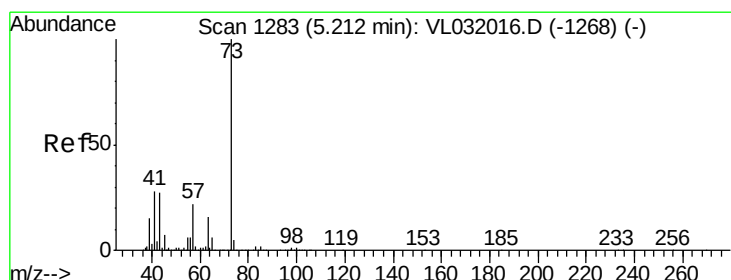
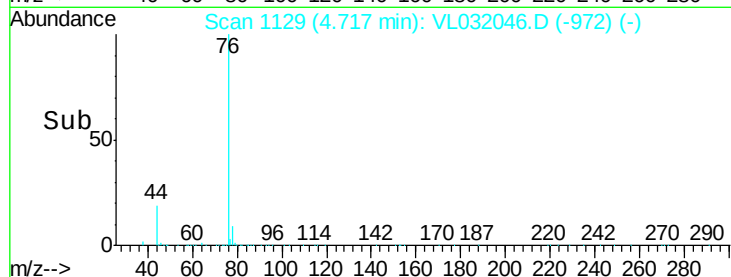
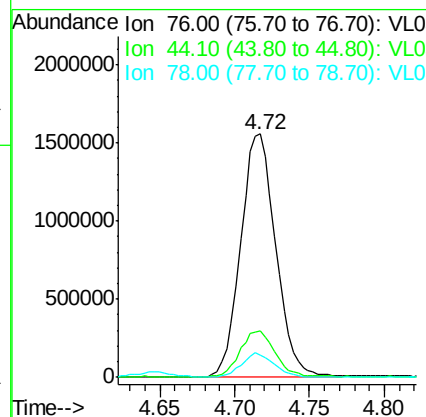
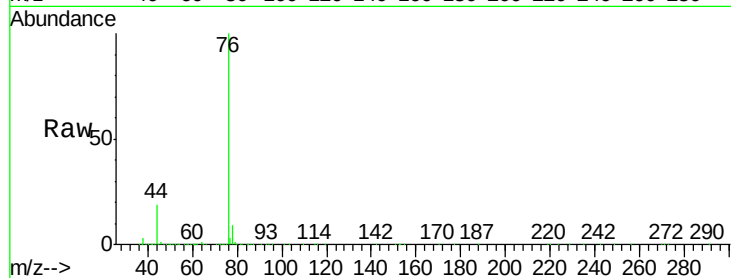
78 9.5 7.6 11.4

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#28

Methyl tert-Butyl Ether

Concen: 11.72 ppbv

RT: 5.21 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VL032046.D

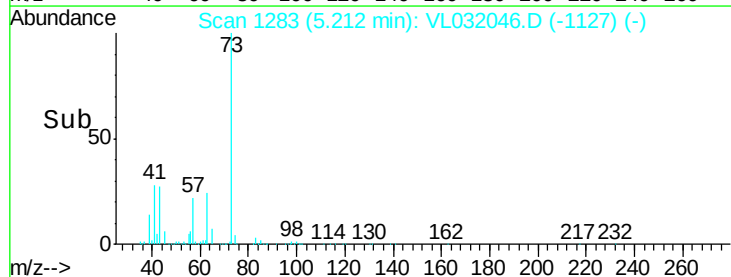
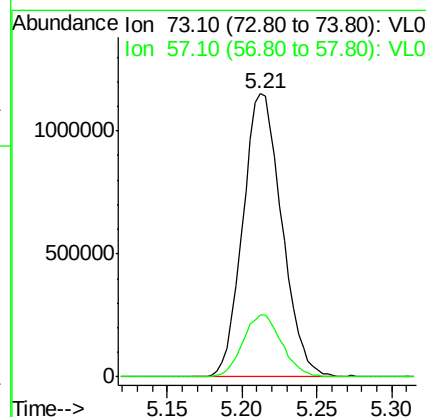
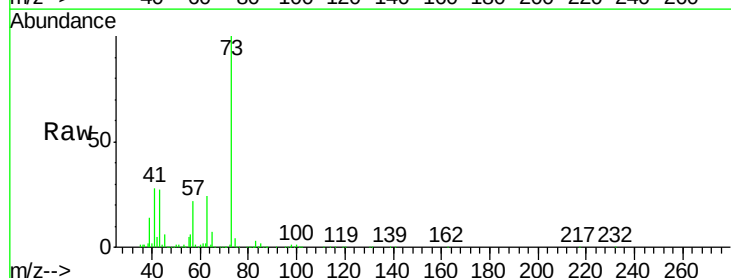
Acq: 2 Jun 2018 9:05

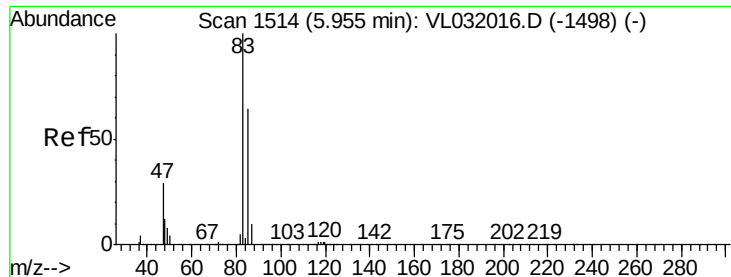
Tgt Ion: 73 Resp: 2092820

Ion Ratio Lower Upper

73 100

57 22.1 17.8 26.8





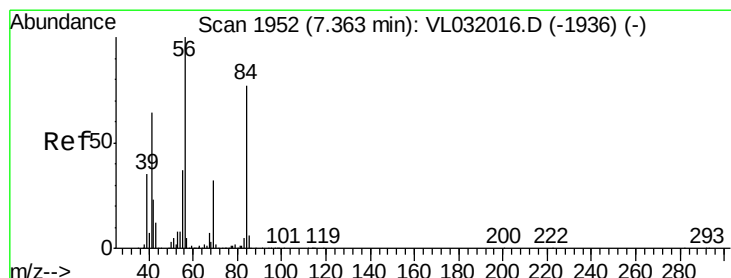
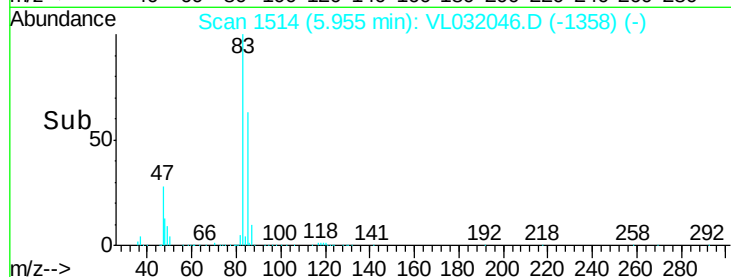
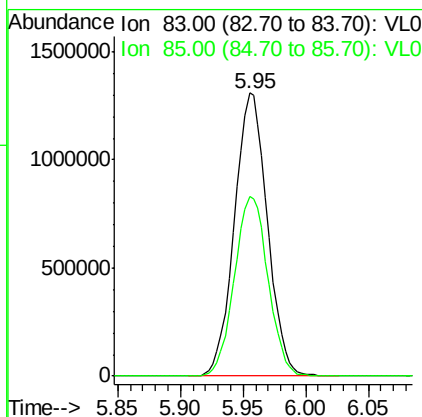
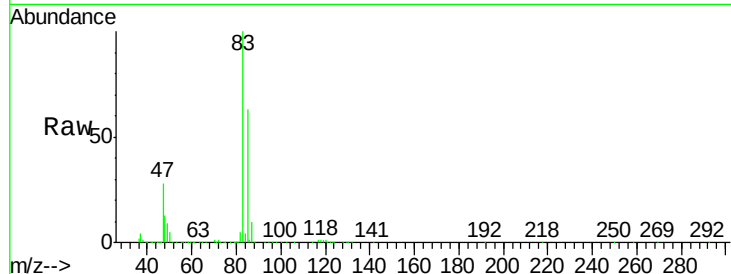
#29
Chloroform
Concen: 9.83 ppbv
RT: 5.95 min Scan# 1514
Delta R.T. 0.00 min
Lab File: VL032046.D
Acq: 2 Jun 2018 9:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 2392502
Ion Ratio Lower Upper
83 100
85 63.2 50.9 76.3

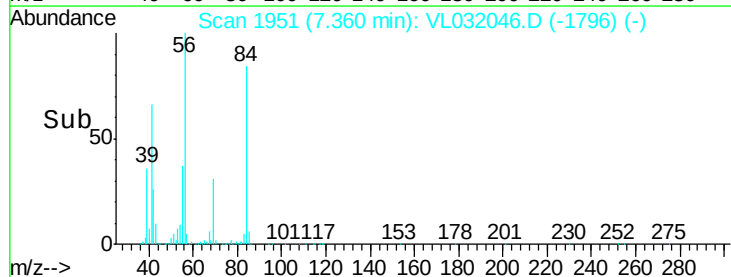
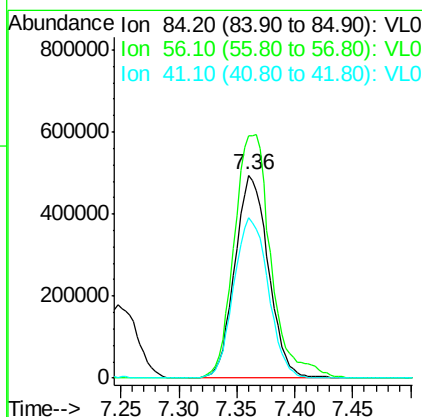
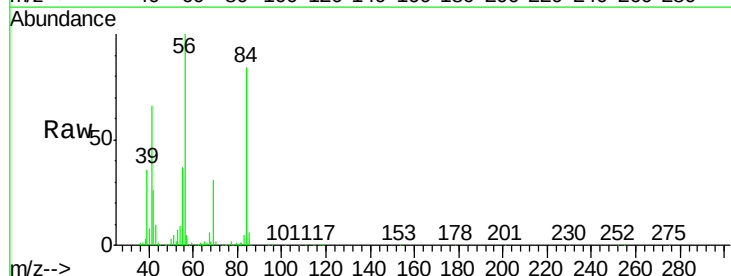
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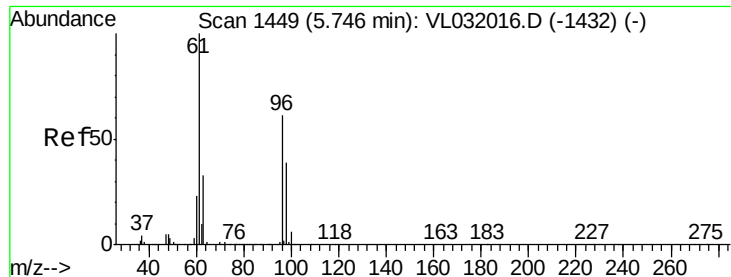
MMDadoda
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#30
Cyclohexane
Concen: 11.67 ppbv
RT: 7.36 min Scan# 1951
Delta R.T. -0.00 min
Lab File: VL032046.D
Acq: 2 Jun 2018 9:05

Tgt Ion: 84 Resp: 993574
Ion Ratio Lower Upper
84 100
56 132.0 108.6 162.8
41 81.5 66.8 100.2





#31

cis-1,2-Dichloroethene

Concen: 11.00 ppbv

RT: 5.75 min Scan# 1449

Delta R.T. 0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 61 Resp: 1427727

Ion	Ratio	Lower	Upper
61	100		
96	64.9	49.0	73.6
98	41.9	31.2	46.8

61 100

96 64.9 49.0 73.6

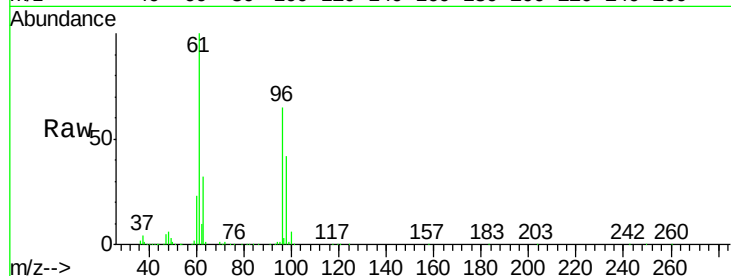
98 41.9 31.2 46.8

Manual Integrations

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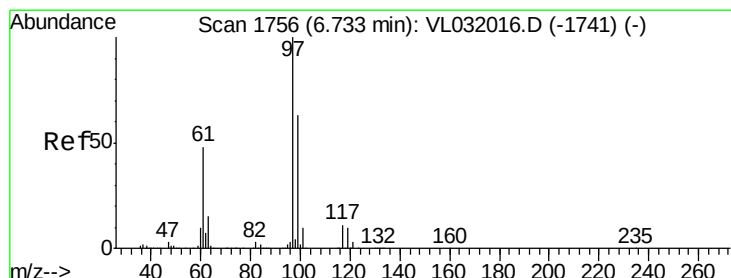
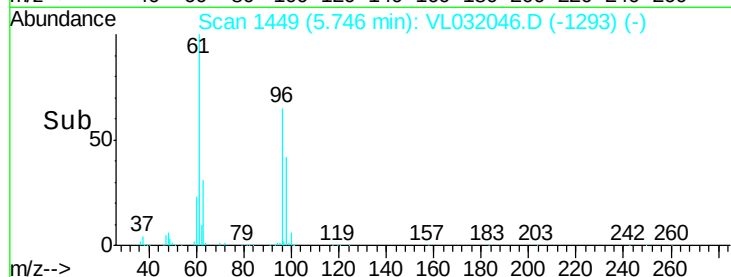
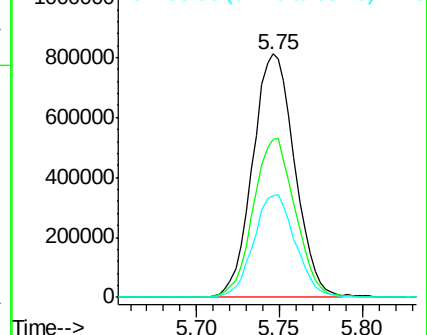
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Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 10.05 ppbv

RT: 6.73 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

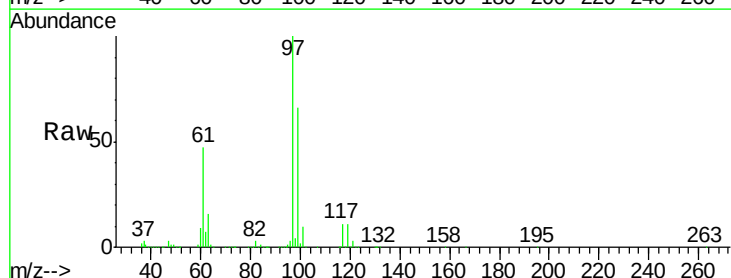
Tgt Ion: 97 Resp: 1992460

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.5	77.3
61	48.1	39.4	59.2

97 100

99 64.5 51.5 77.3

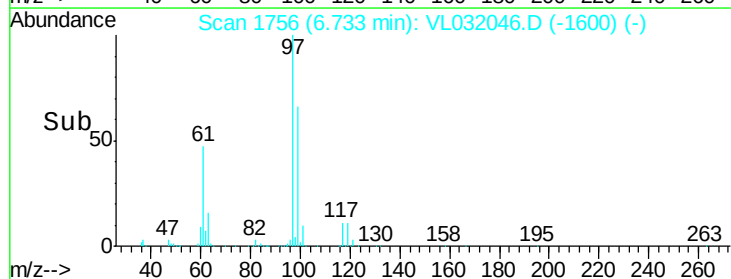
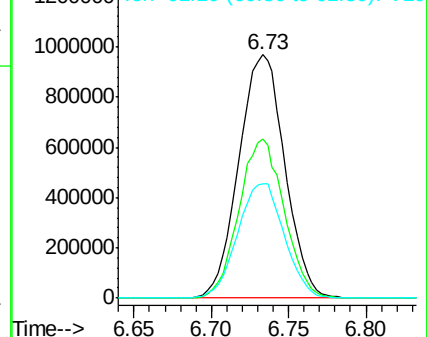
61 48.1 39.4 59.2

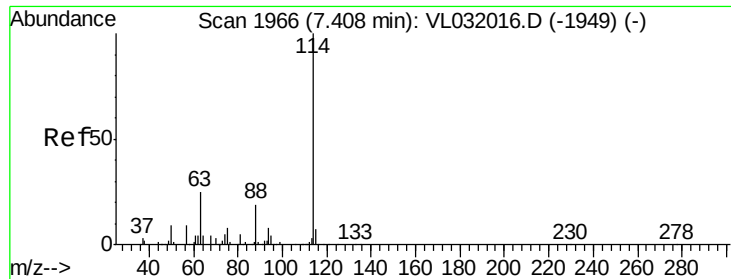


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0





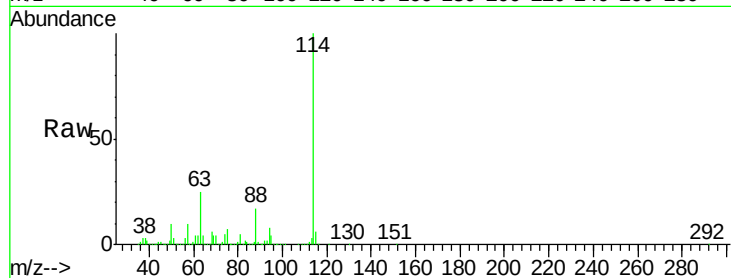
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.41 min Scan# 1965
 Delta R.T. -0.00 min
 Lab File: VL032046.D
 Acq: 2 Jun 2018 9:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

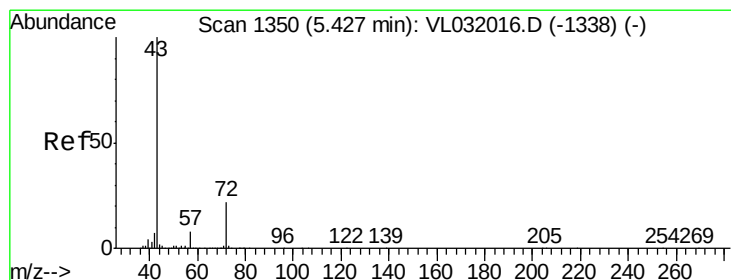
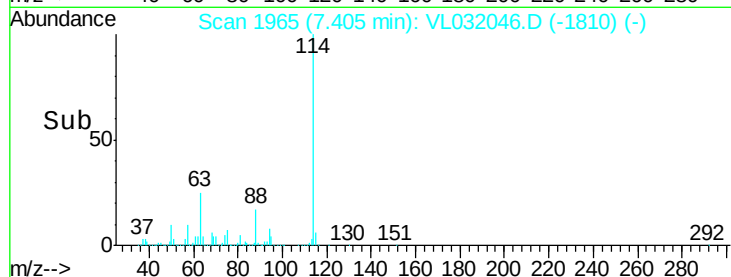
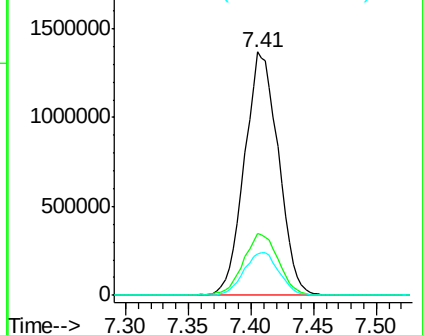
Tot Ion	Ratio	Lower	Upper
114	100		
63	26.5	21.1	31.7
88	18.1	14.8	22.2

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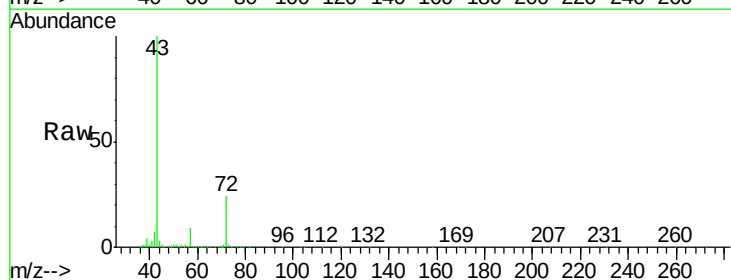


Abundance Ion 114.10 (113.80 to 114.80): VL0

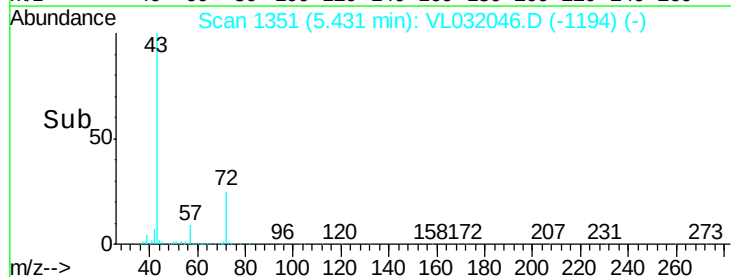
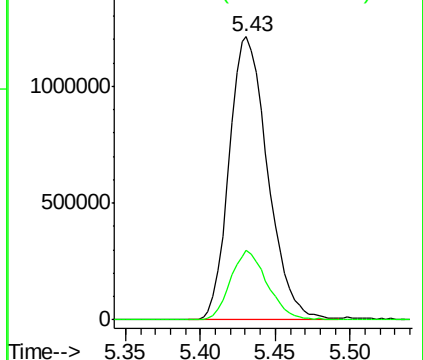


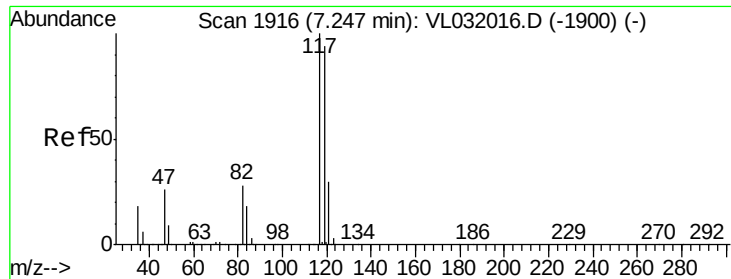
#34
 2-Butanone
 Concen: 10.66 ppbv
 RT: 5.43 min Scan# 1351
 Delta R.T. 0.00 min
 Lab File: VL032046.D
 Acq: 2 Jun 2018 9:05

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.7	18.6	27.8



Abundance Ion 43.10 (42.80 to 43.80): VL0





#35

Carbon Tetrachloride

Concen: 9.20 ppbv

RT: 7.25 min Scan# 1916

Delta R.T. 0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 2026729

Ion Ratio Lower Upper

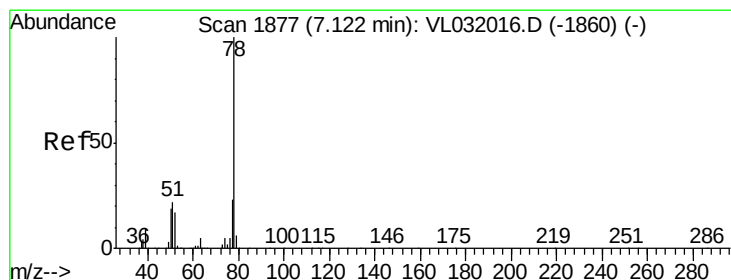
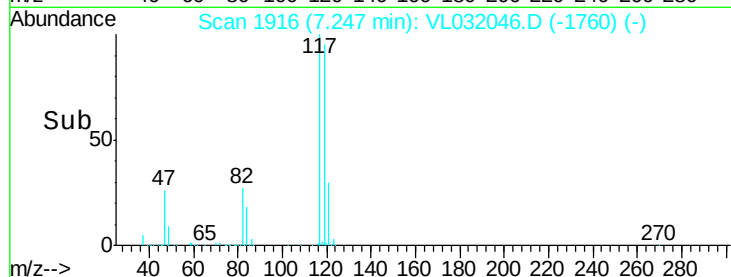
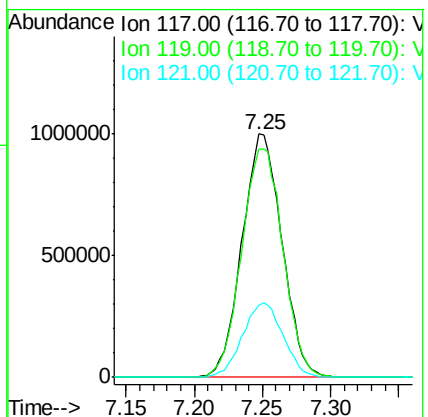
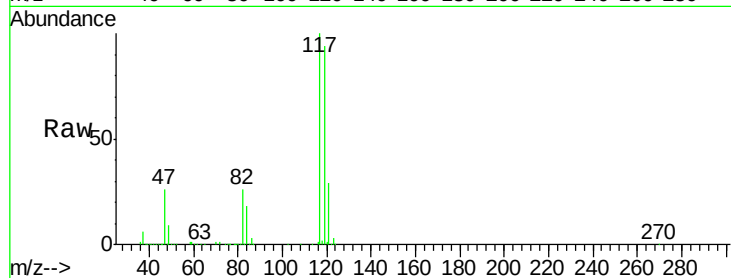
117 100

119 93.8 75.3 112.9

121 29.5 24.1 36.1

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6/4/2018 3:36:03 PM



#36

Benzene

Concen: 10.77 ppbv

RT: 7.12 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

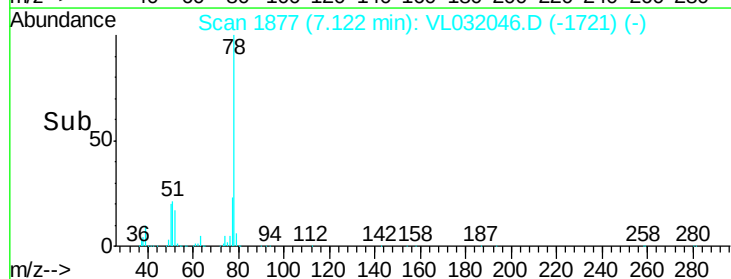
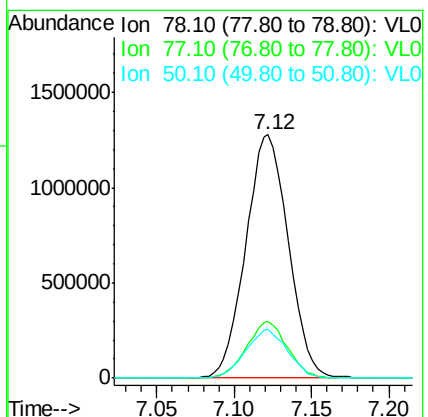
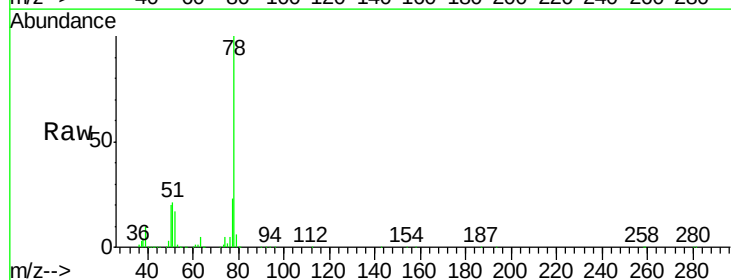
Tgt Ion: 78 Resp: 2443859

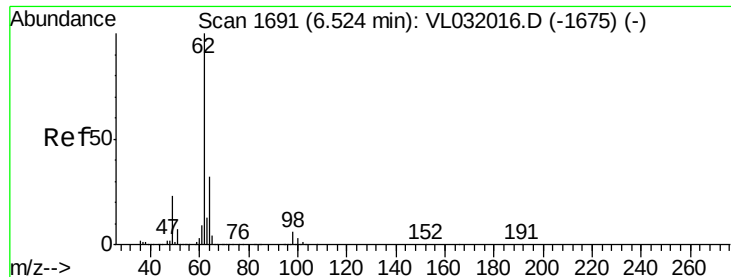
Ion Ratio Lower Upper

78 100

77 23.4 18.1 27.1

50 20.0 14.9 22.3





#37

1,2-Dichloroethane

Concen: 10.03 ppbv

RT: 6.52 min Scan# 1691

Delta R.T. 0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 1643420

Ion Ratio Lower Upper

62 100

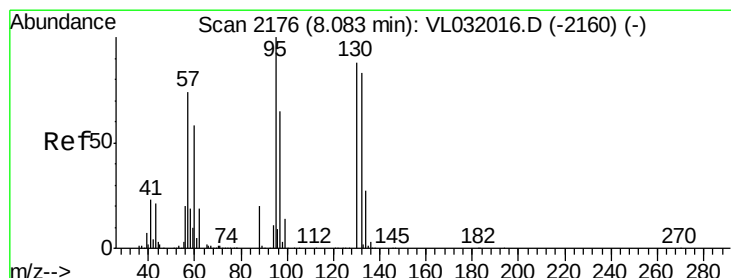
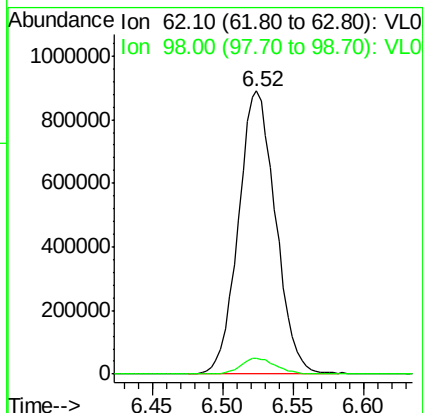
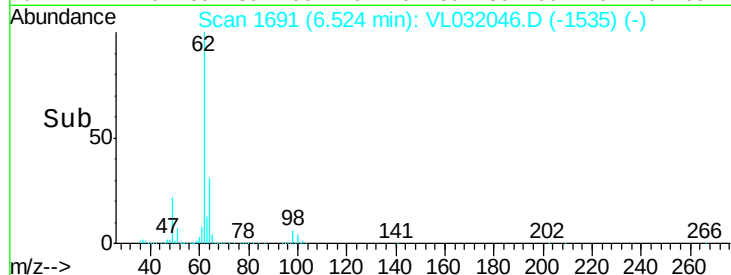
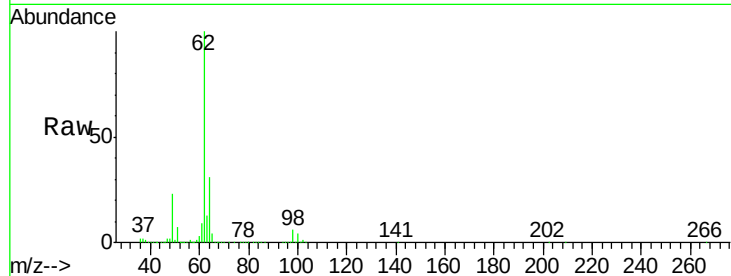
98 5.5 4.2 6.4

Manual Integrations

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6/4/2018 3:36:03 PM



#38

Trichloroethene

Concen: 11.48 ppbv

RT: 8.08 min Scan# 2175

Delta R.T. -0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

Tgt Ion:130 Resp: 1000185

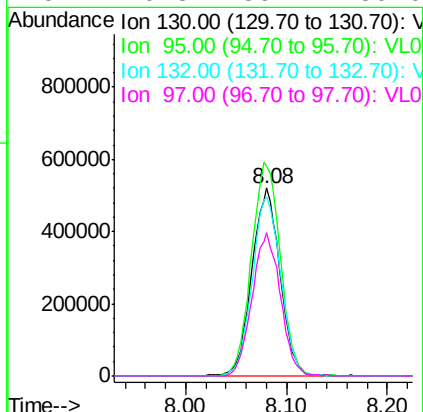
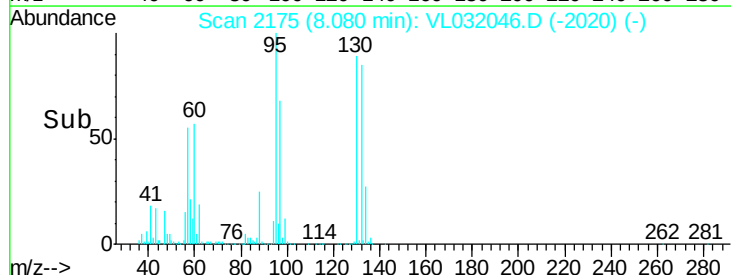
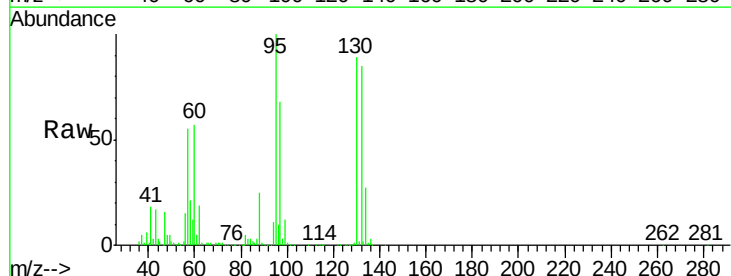
Ion Ratio Lower Upper

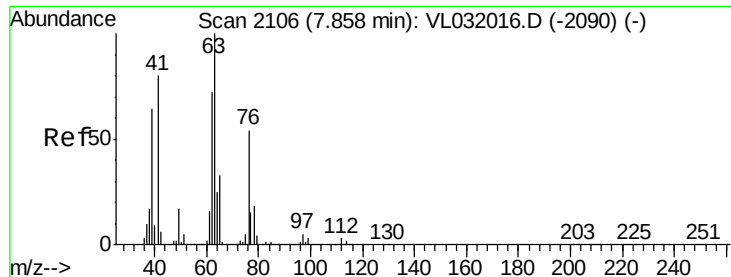
130 100

95 112.0 90.7 136.1

132 95.7 75.6 113.4

97 76.3 59.4 89.0





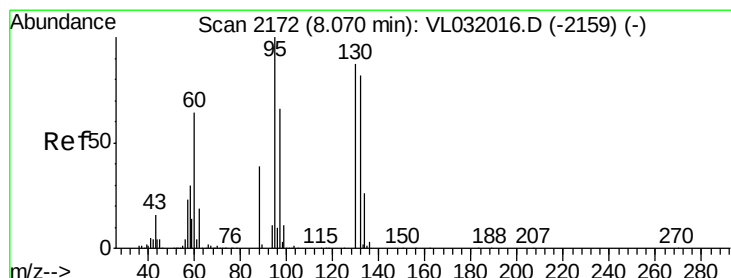
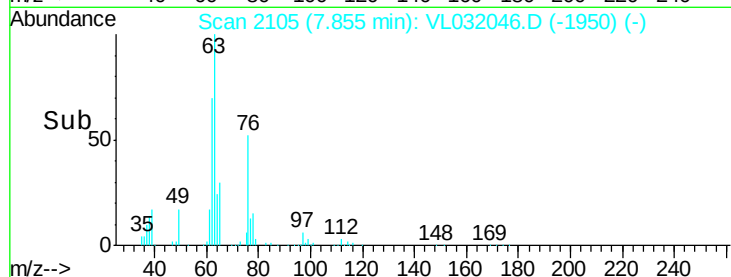
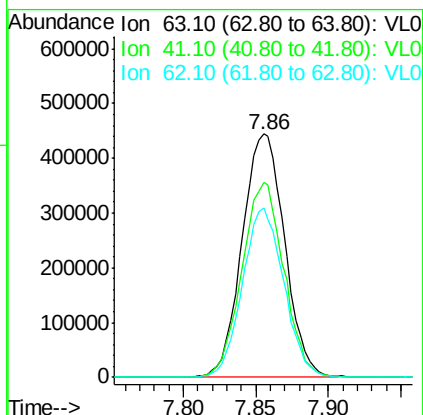
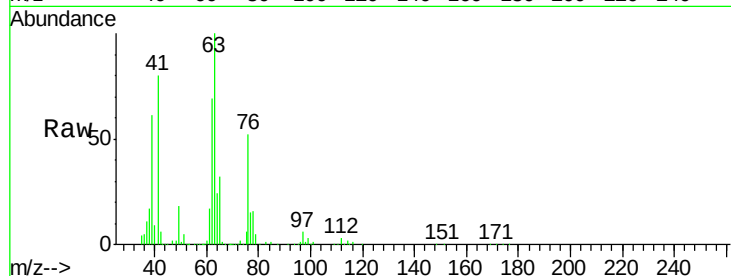
#39
 1,2-Dichloropropane
 Concen: 10.81 ppbv
 RT: 7.86 min Scan# 2105
 Delta R.T. -0.00 min
 Lab File: VL032046.D
 Acq: 2 Jun 2018 9:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	80.0	64.0	96.0
62	69.4	57.6	86.4

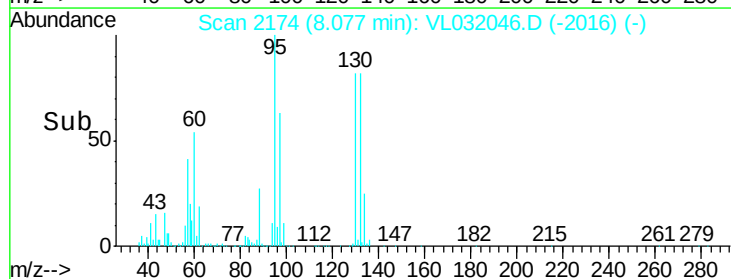
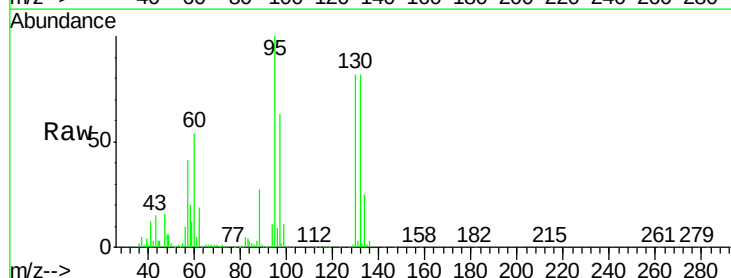
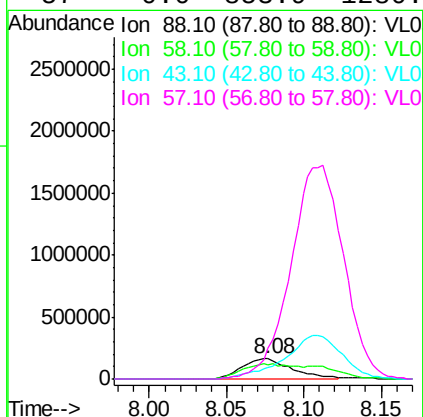
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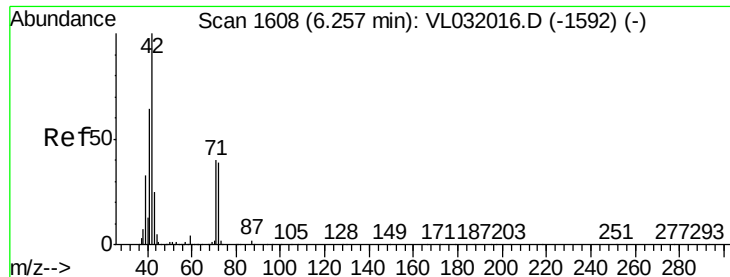
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#40
 1,4-Dioxane
 Concen: 10.19 ppbv
 RT: 8.08 min Scan# 2174
 Delta R.T. 0.01 min
 Lab File: VL032046.D
 Acq: 2 Jun 2018 9:05

Tgt Ion	Ratio	Lower	Upper
88	100		
58	126.3	100.5	150.7
43	0.0	193.8	290.6#
57	0.0	853.9	1280.9#





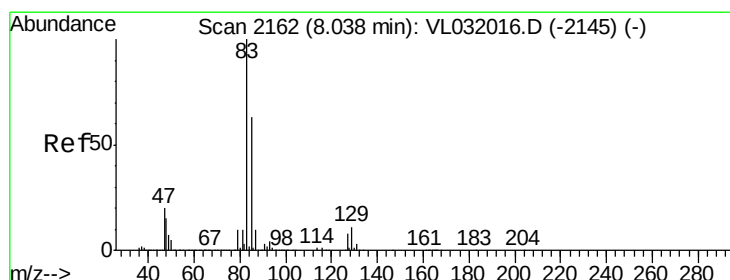
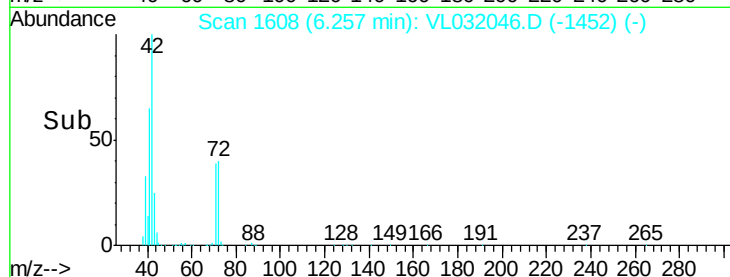
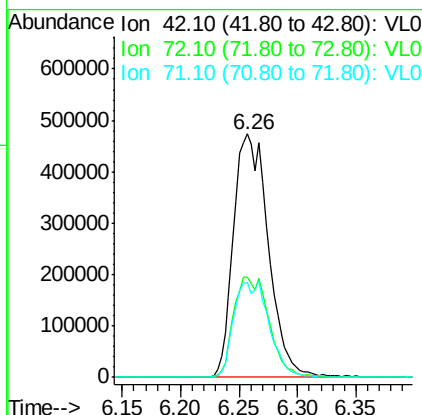
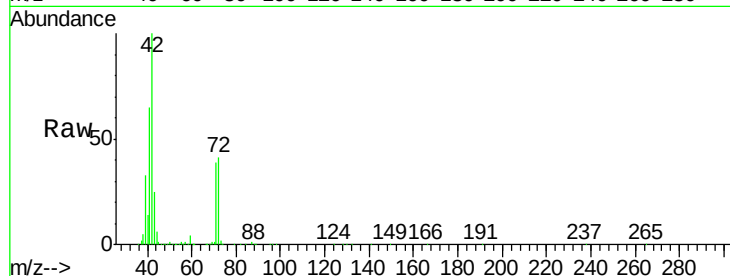
#41
Tetrahydrofuran
Concen: 11.16 ppbv m
RT: 6.26 min Scan# 1608
Delta R.T. 0.00 min
Lab File: VL032046.D
Acq: 2 Jun 2018 9:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.0	32.3	48.5
71	0.0	32.3	48.5#

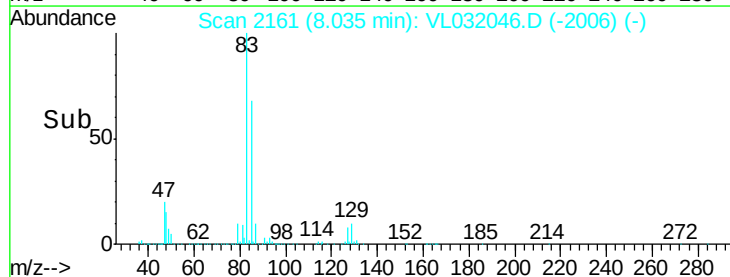
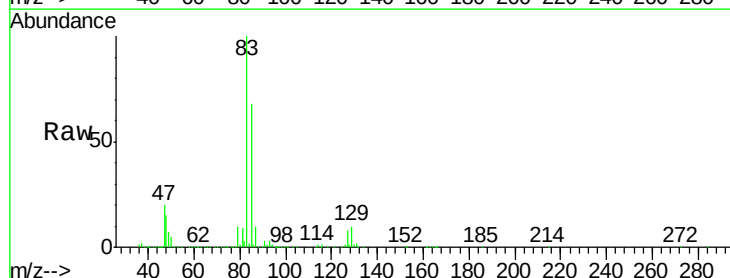
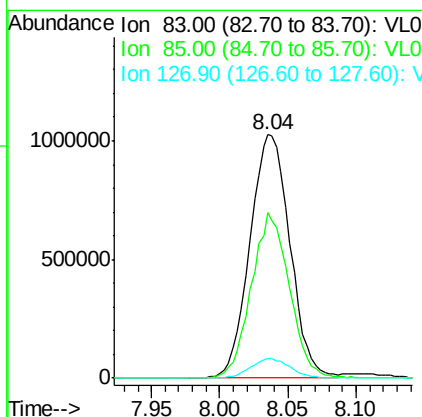
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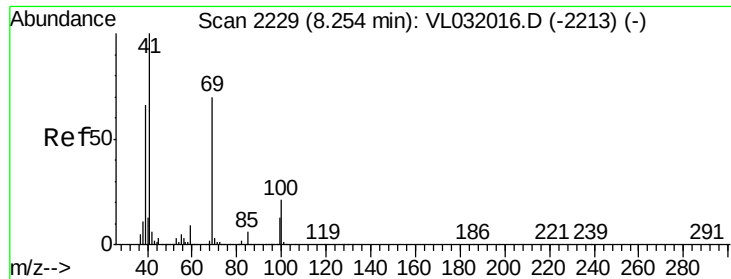
MMDadoda
6/4/2018 3:36:03 PM



#42
Bromodichloromethane
Concen: 10.22 ppbv
RT: 8.04 min Scan# 2161
Delta R.T. -0.00 min
Lab File: VL032046.D
Acq: 2 Jun 2018 9:05

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.9	50.3	75.5
127	7.9	6.6	9.8





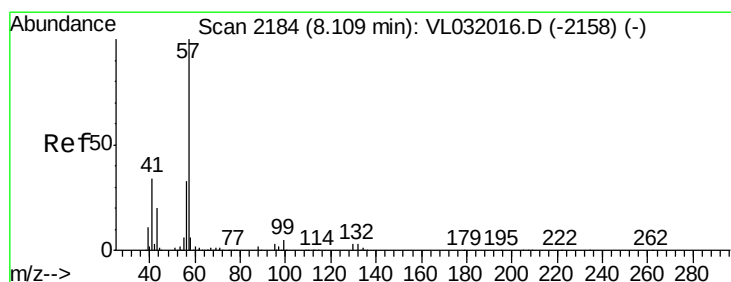
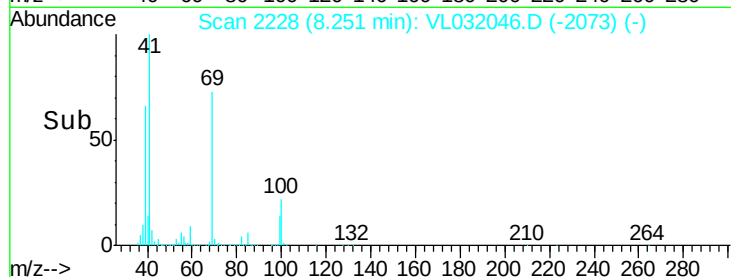
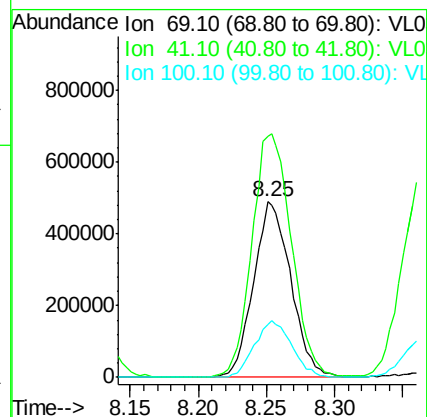
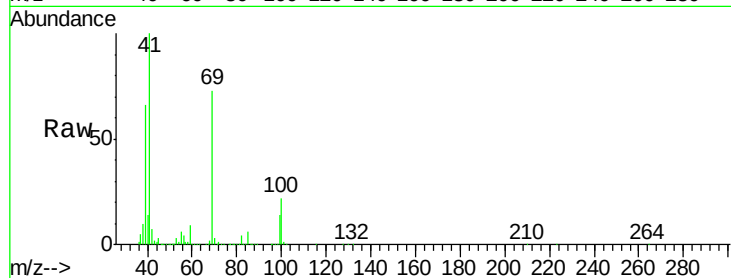
#43
Methyl Methacrylate
Concen: 11.72 ppbv
RT: 8.25 min Scan# 2228
Delta R.T. -0.00 min
Lab File: VL032046.D
Acq: 2 Jun 2018 9:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	147.1	115.5	173.3	
100	32.4	25.4	38.0	

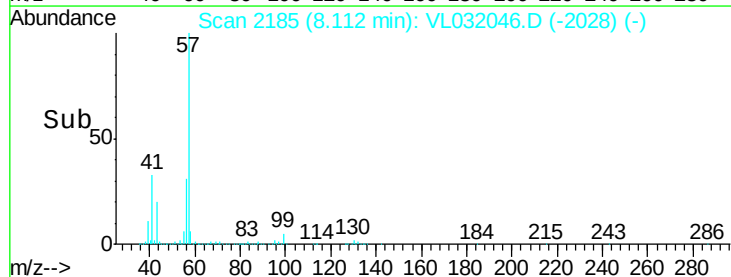
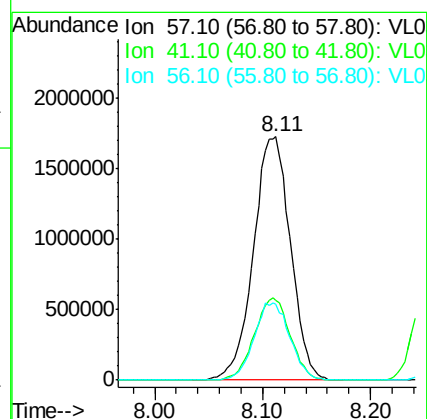
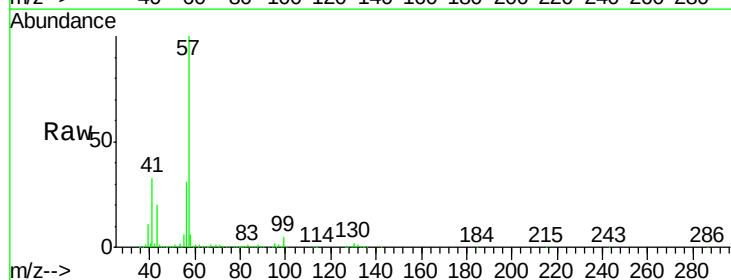
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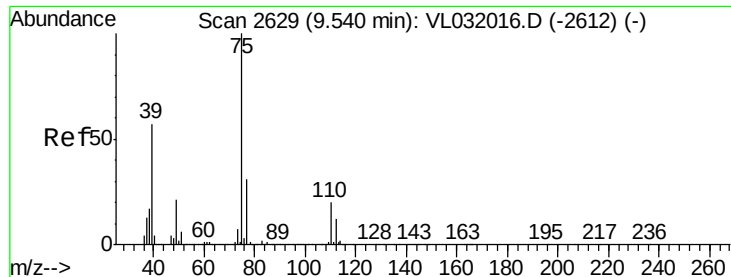
MMDadoda
6/4/2018 3:36:03 PM



#44
2,2,4-Trimethylpentane
Concen: 10.54 ppbv
RT: 8.11 min Scan# 2185
Delta R.T. 0.00 min
Lab File: VL032046.D
Acq: 2 Jun 2018 9:05

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	32.8	26.6	40.0	
56	30.8	24.9	37.3	





#45

t-1,3-Dichloropropene

Concen: 12.42 ppbv

RT: 9.54 min Scan# 2628

Delta R.T. -0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

Tot Ion: 75 Resp: 1327233

Ion Ratio Lower Upper

75 100

77 31.0 25.0 37.4

Instrument :

MSVOA_L

ClientSampleId :

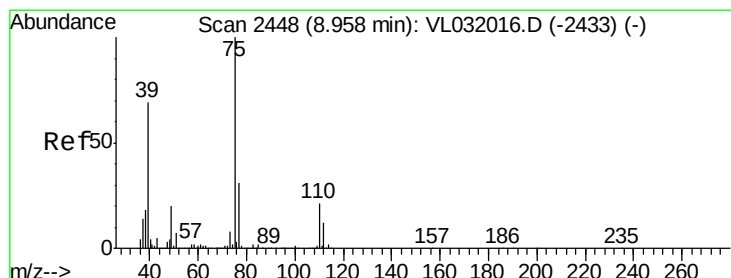
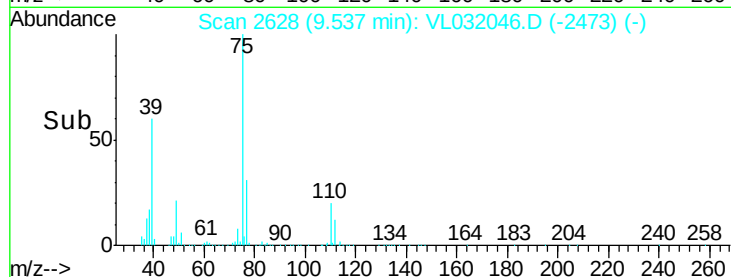
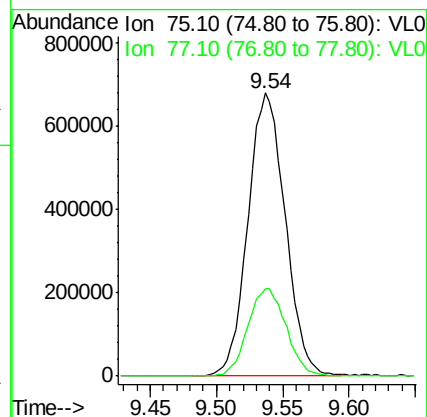
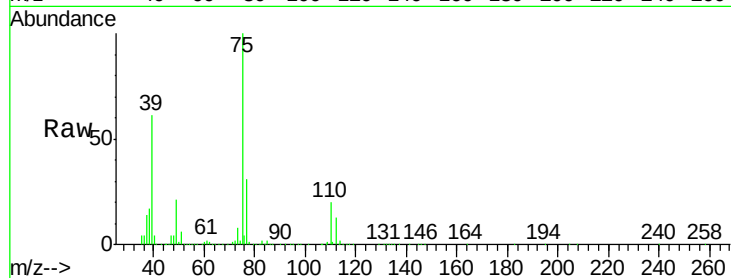
VSTDCCC010EC

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6/4/2018 3:36:03 PM



#46

cis-1,3-Dichloropropene

Concen: 11.97 ppbv

RT: 8.96 min Scan# 2448

Delta R.T. 0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

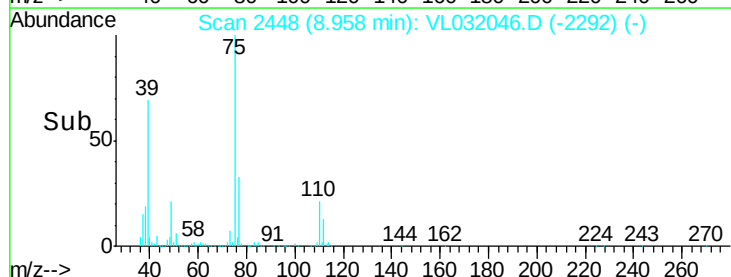
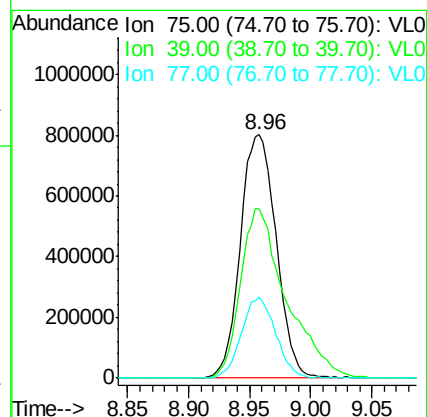
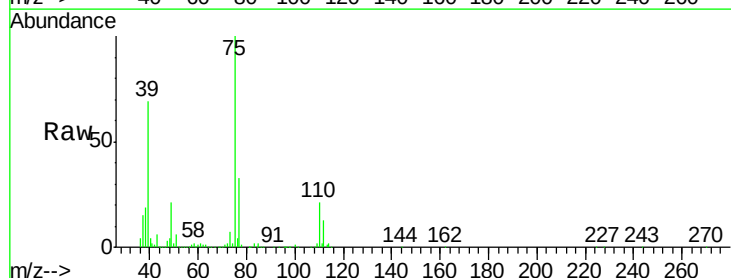
Tgt Ion: 75 Resp: 1624749

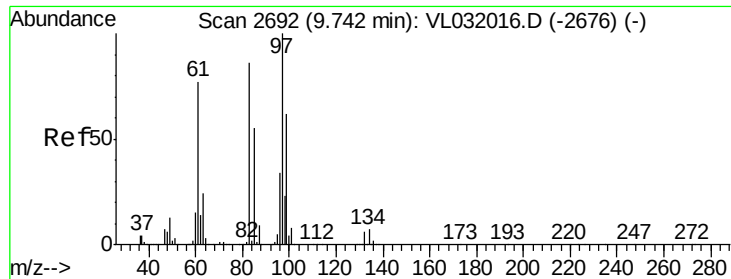
Ion Ratio Lower Upper

75 100

39 69.4 55.0 82.6

77 33.3 25.0 37.6





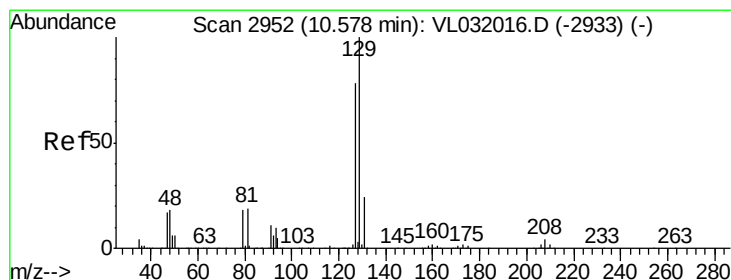
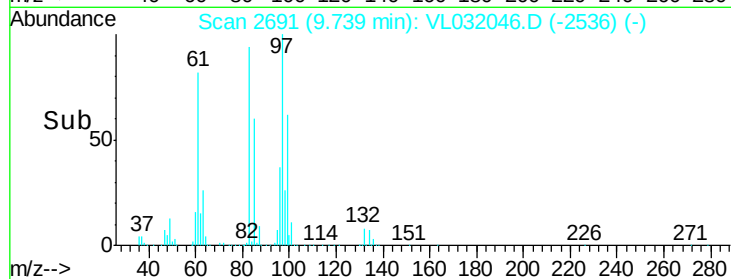
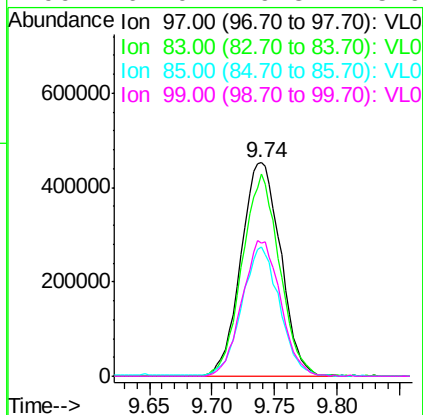
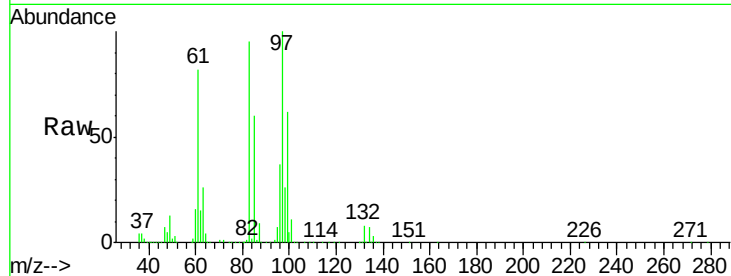
#47
 1,1,2-Trichloroethane
 Concen: 9.63 ppbv
 RT: 9.74 min Scan# 2691
 Delta R.T. -0.00 min
 Lab File: VL032046.D
 Acq: 2 Jun 2018 9:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:	97	Resp:	995102
Ion Ratio	Lower	Upper	
97	100		
83	94.4	69.1	103.7
85	60.3	44.5	66.7
99	62.0	49.3	73.9

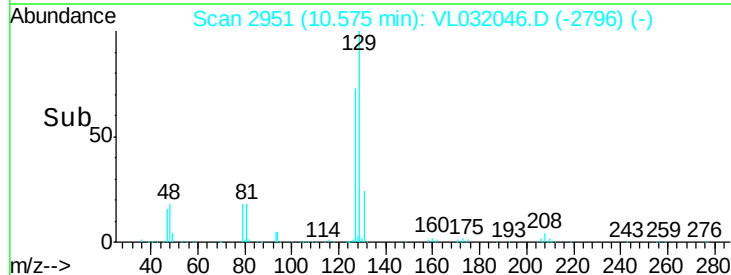
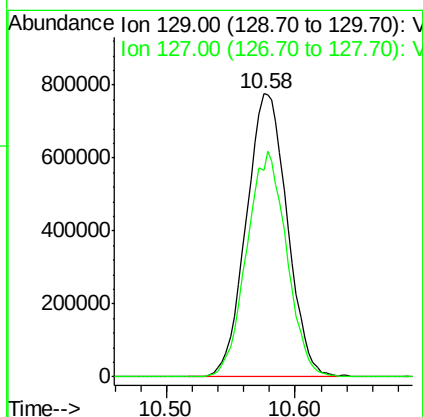
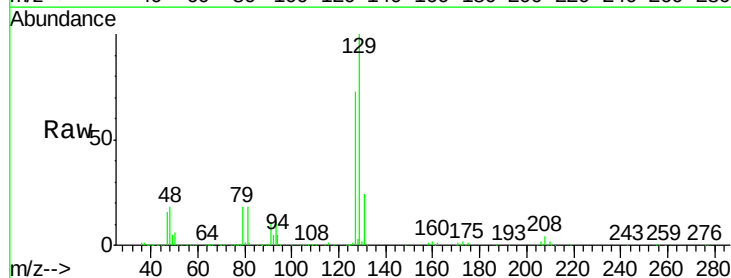
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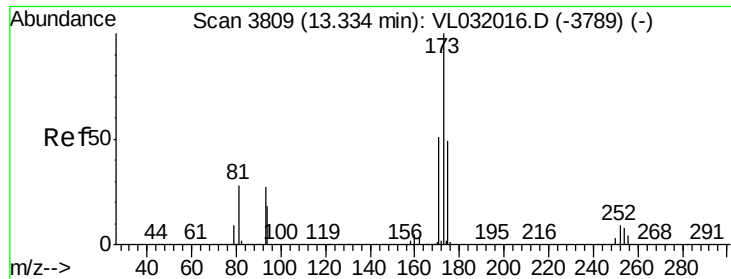
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#48
 Dibromochloromethane
 Concen: 10.05 ppbv
 RT: 10.58 min Scan# 2951
 Delta R.T. -0.00 min
 Lab File: VL032046.D
 Acq: 2 Jun 2018 9:05

Tgt Ion:	129	Resp:	1719242
Ion Ratio	Lower	Upper	
129	100		
127	77.6	39.3	117.9





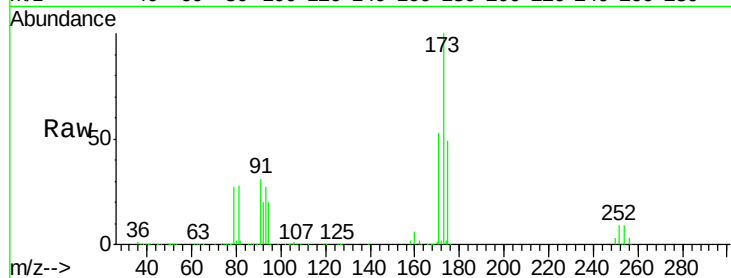
#49
Bromoform
Concen: 10.06 ppbv
RT: 13.33 min Scan# 3808
Delta R.T. -0.00 min
Lab File: VL032046.D
Acq: 2 Jun 2018 9:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

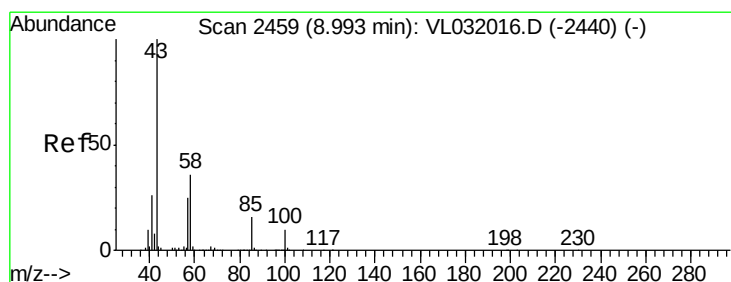
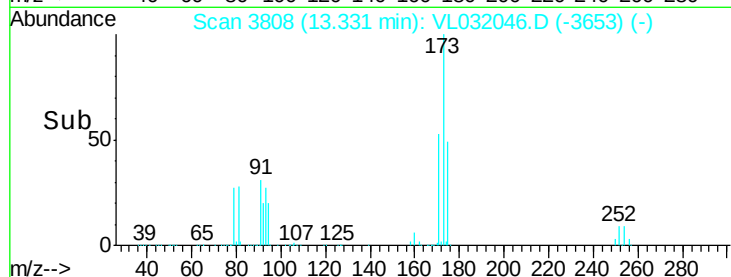
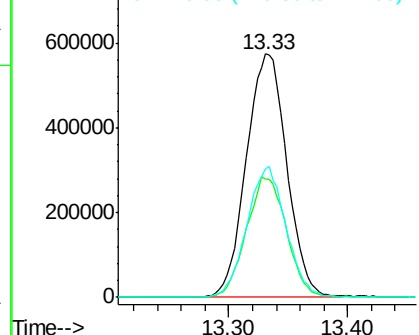
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.1	39.8	59.8
171	52.2	41.7	62.5

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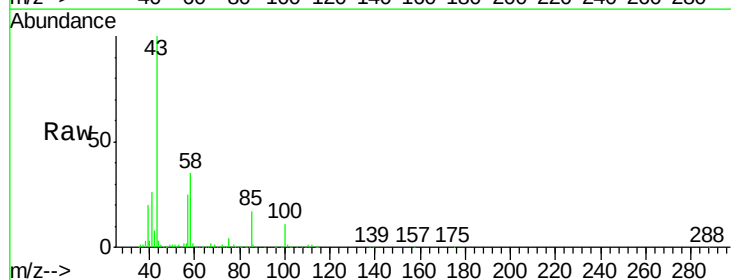


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

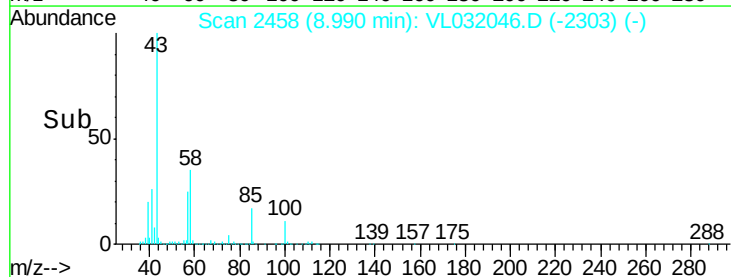
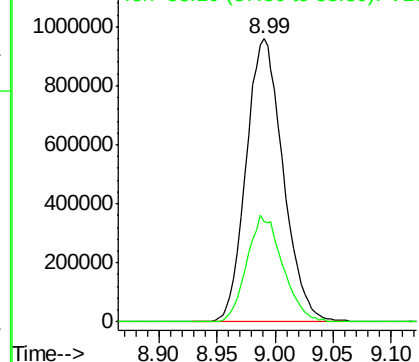


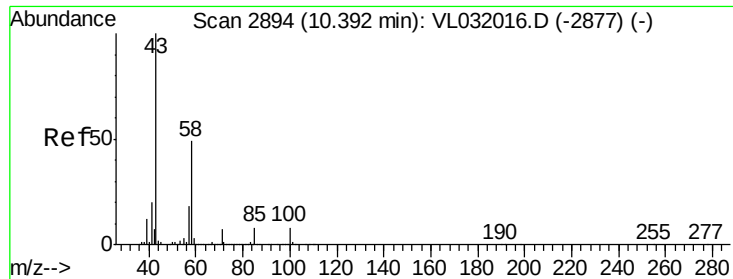
#50
4-Methyl-2-Pentanone
Concen: 10.76 ppbv
RT: 8.99 min Scan# 2458
Delta R.T. -0.00 min
Lab File: VL032046.D
Acq: 2 Jun 2018 9:05

Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.6	29.1	43.7



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





#51

2-Hexanone

Concen: 11.09 ppbv

RT: 10.39 min Scan# 2894

Delta R.T. 0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1965640

Ion Ratio Lower Upper

43 100

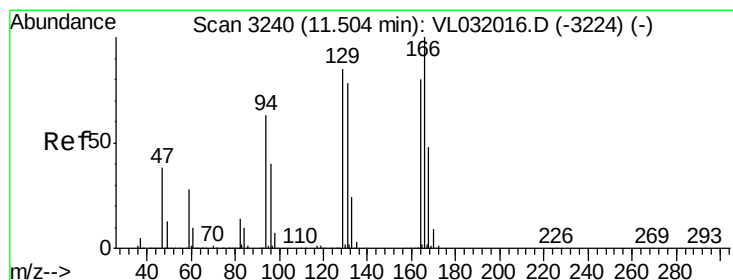
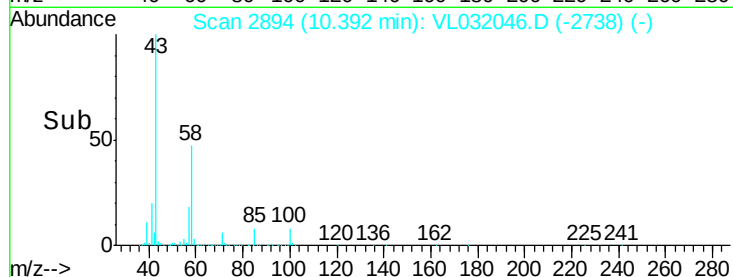
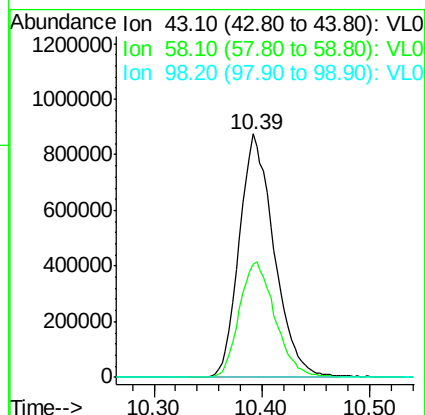
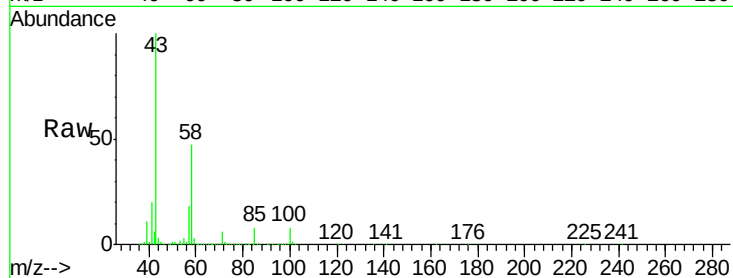
58 48.8 39.0 58.6

98 0.4 0.4 0.6#

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6/4/2018 3:36:03 PM



#52

Tetrachloroethene

Concen: 10.15 ppbv

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

Tgt Ion: 164 Resp: 914399

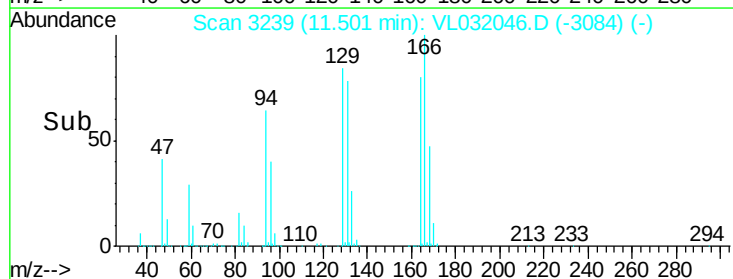
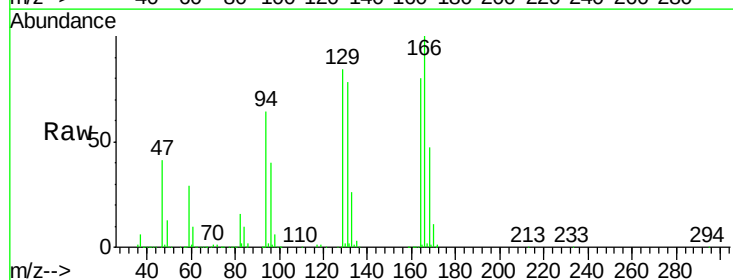
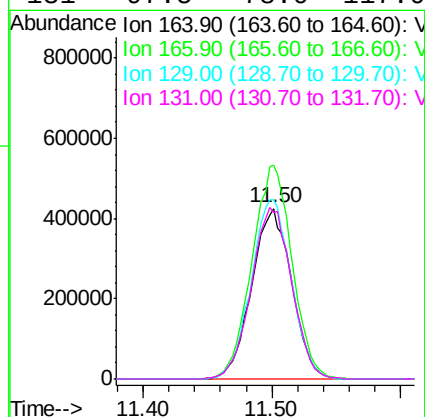
Ion Ratio Lower Upper

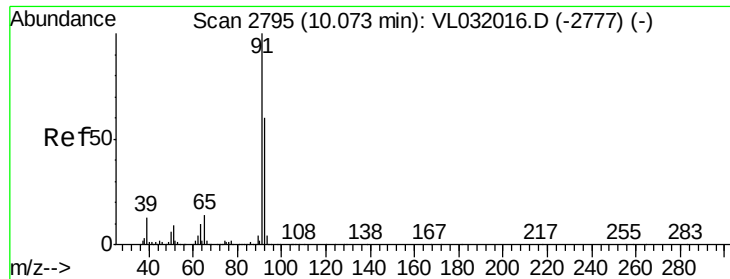
164 100

166 125.1 100.2 150.2

129 105.1 85.4 128.0

131 97.5 78.0 117.0





#53

Toluene

Concen: 11.05 ppbv

RT: 10.07 min Scan# 2794

Delta R.T. -0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2805279

Ion Ratio Lower Upper

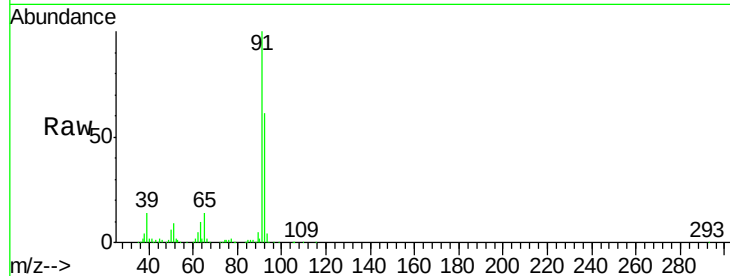
91 100

92 59.9 48.2 72.2

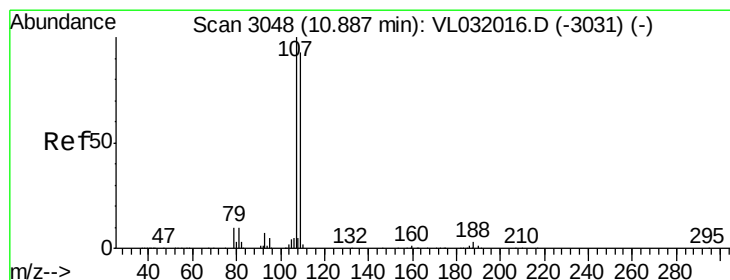
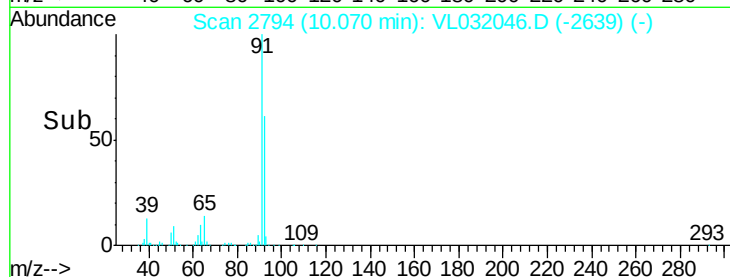
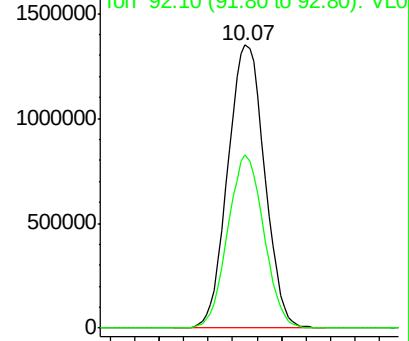
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Abundance Ion 91.10 (90.80 to 91.80): VL0



#54

1,2-Dibromoethane

Concen: 10.07 ppbv

RT: 10.89 min Scan# 3048

Delta R.T. 0.00 min

Lab File: VL032046.D

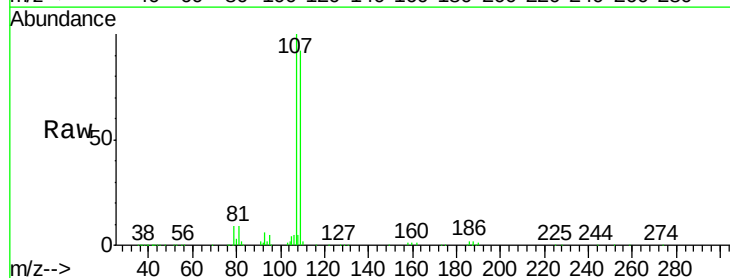
Acq: 2 Jun 2018 9:05

Tgt Ion: 107 Resp: 1522908

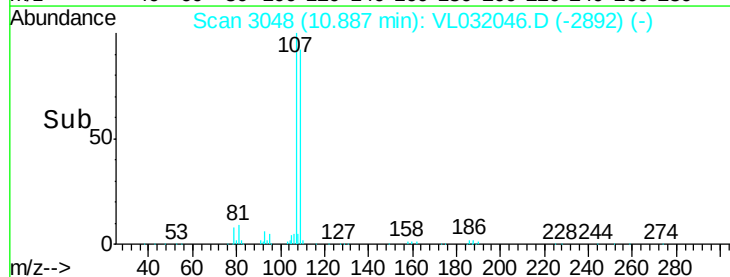
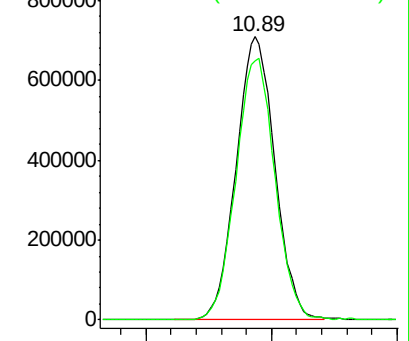
Ion Ratio Lower Upper

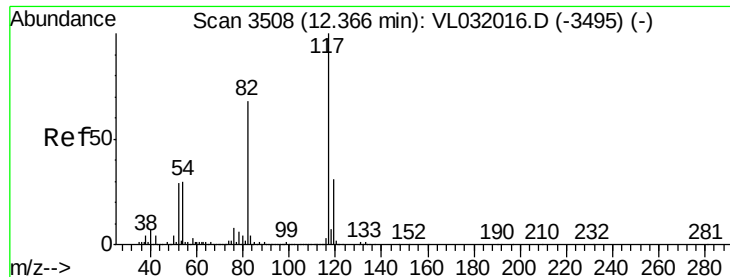
107 100

109 91.5 74.6 111.8



Abundance Ion 107.00 (106.70 to 107.70): V





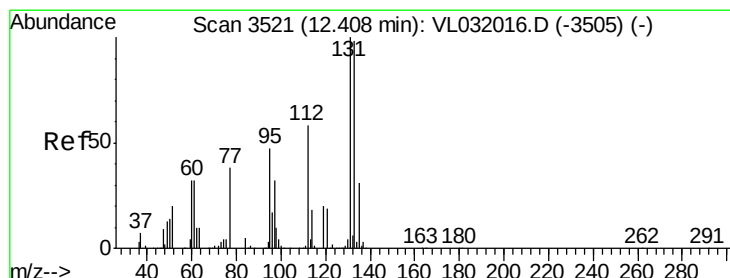
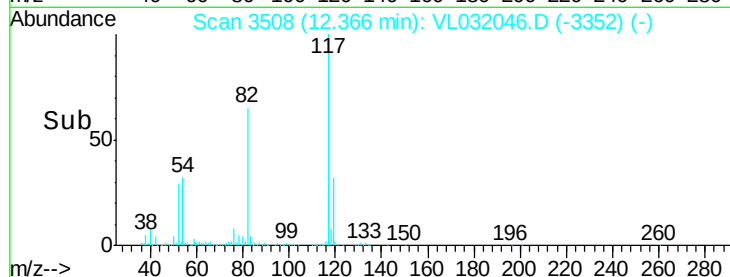
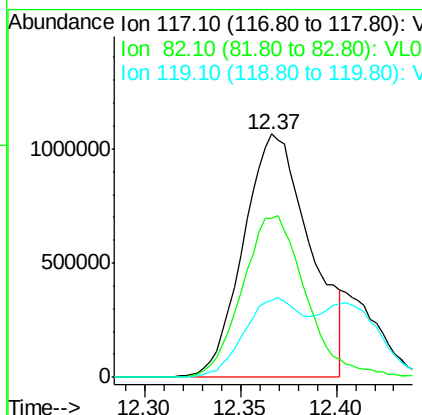
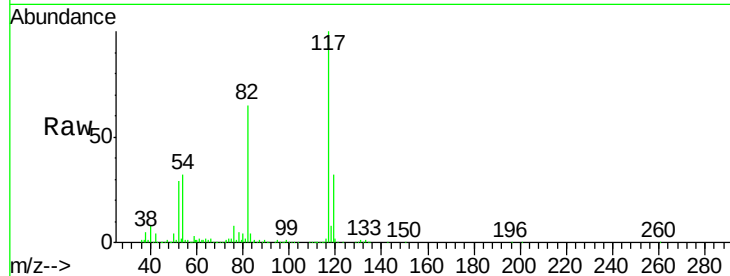
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.37 min Scan# 3508
Delta R.T. 0.00 min
Lab File: VL032046.D
Acq: 2 Jun 2018 9:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 2578745
Ion Ratio Lower Upper
117 100
82 63.7 52.7 79.1
119 26.6 25.5 38.3

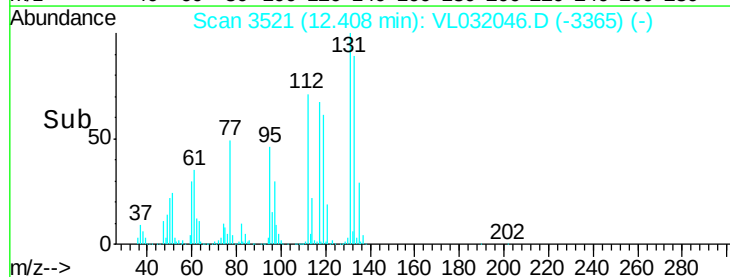
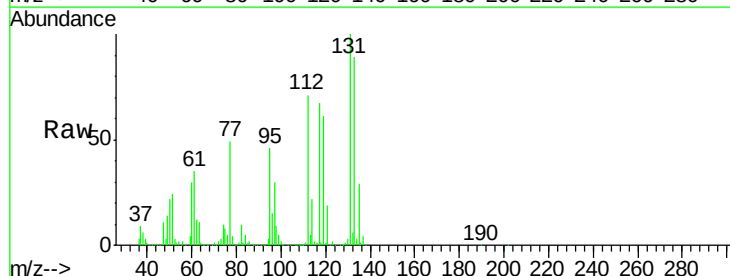
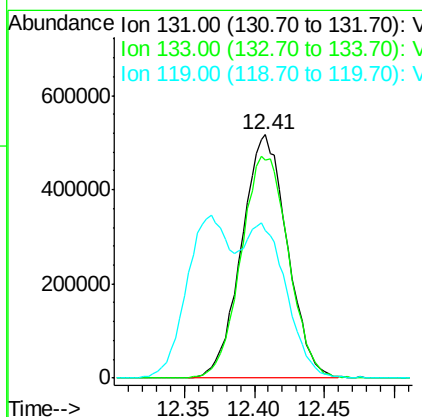
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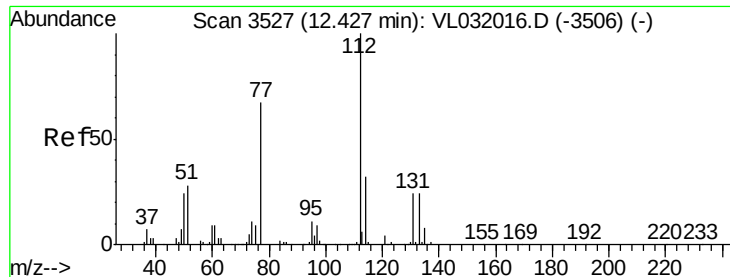
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6/4/2018 3:36:03 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 9.38 ppbv
RT: 12.41 min Scan# 3521
Delta R.T. 0.00 min
Lab File: VL032046.D
Acq: 2 Jun 2018 9:05

Tgt Ion:131 Resp: 1167118
Ion Ratio Lower Upper
131 100
133 95.1 76.7 115.1
119 58.0 49.2 73.8





#57

Chlorobenzene

Concen: 9.24 ppbv

RT: 12.43 min Scan# 3527

Delta R.T. 0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:112 Resp: 2175854

Ion Ratio Lower Upper

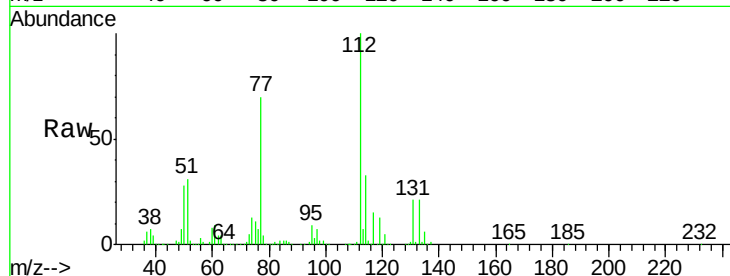
112 100

77 69.6 54.3 81.5

114 32.6 28.6 35.0

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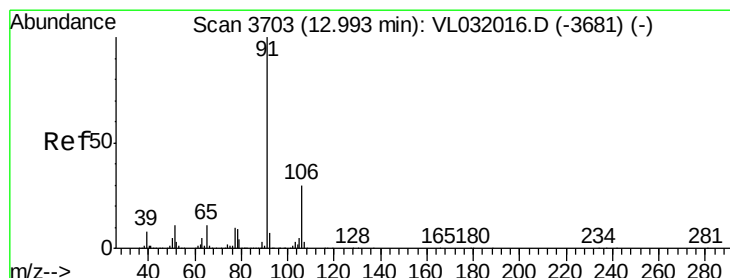
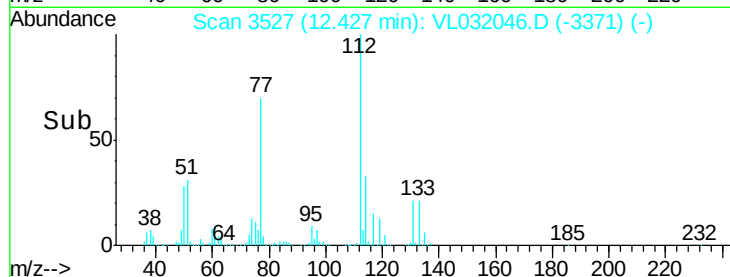
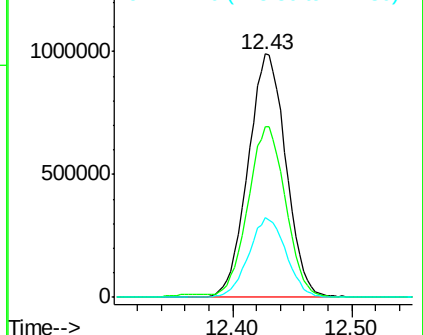
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.71 ppbv

RT: 12.99 min Scan# 3702

Delta R.T. -0.00 min

Lab File: VL032046.D

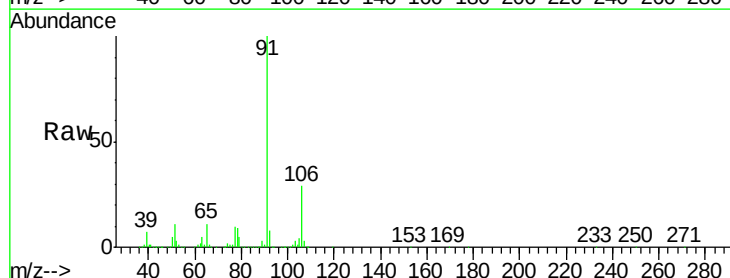
Acq: 2 Jun 2018 9:05

Tgt Ion: 91 Resp: 3883487

Ion Ratio Lower Upper

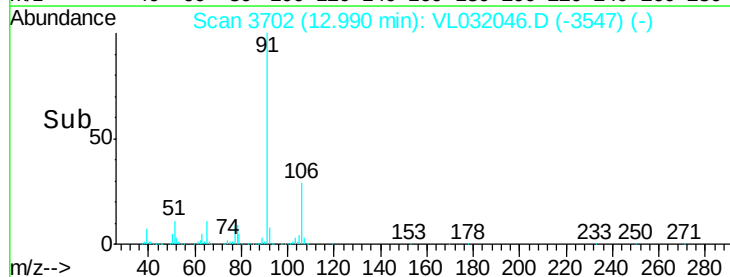
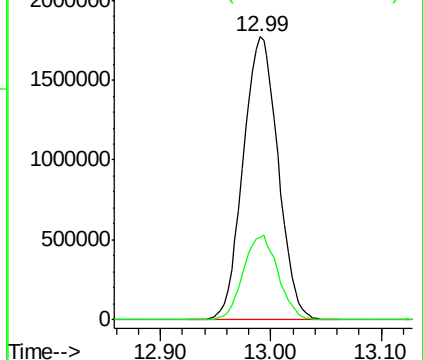
91 100

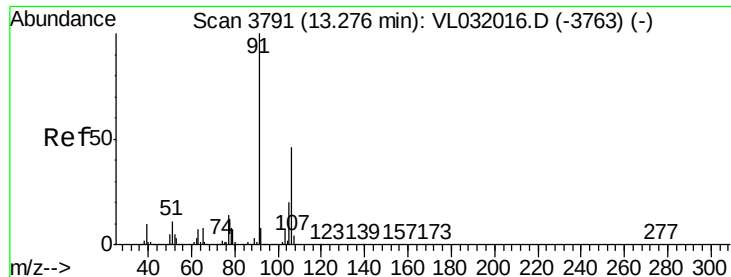
106 29.3 24.2 36.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





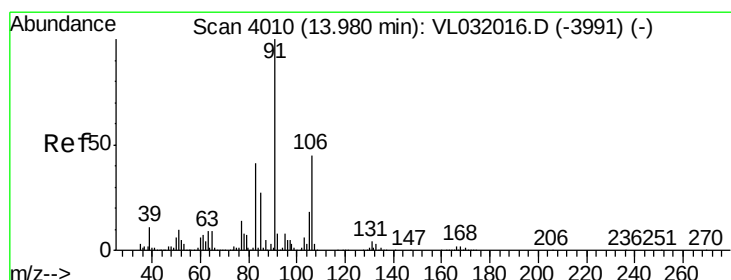
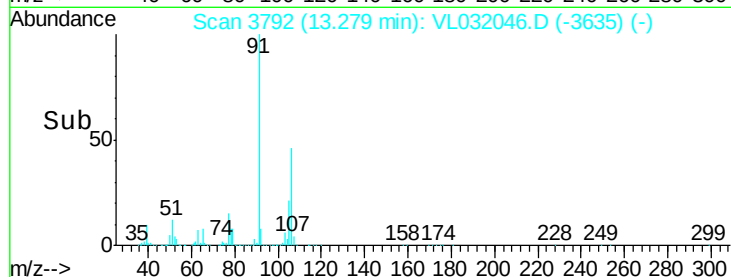
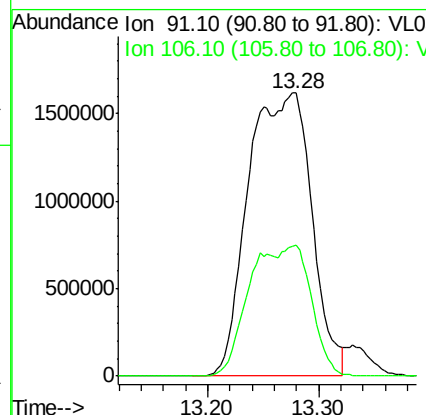
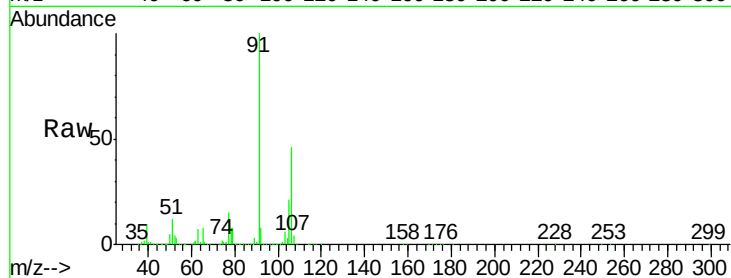
#59
m/p-Xylene
Concen: 20.19 ppbv m
RT: 13.28 min Scan# 3792
Delta R.T. 0.00 min
Lab File: VL032046.D
Acq: 2 Jun 2018 9:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 6417326
Ion Ratio Lower Upper
91 100
106 45.1 35.7 53.5

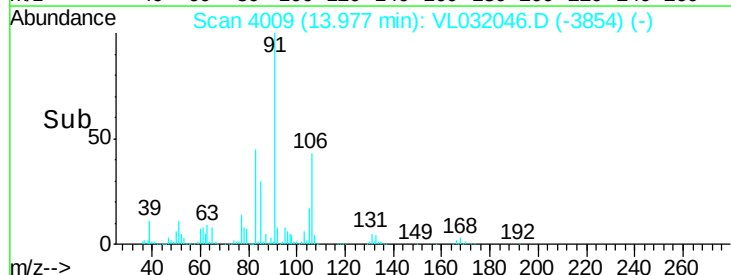
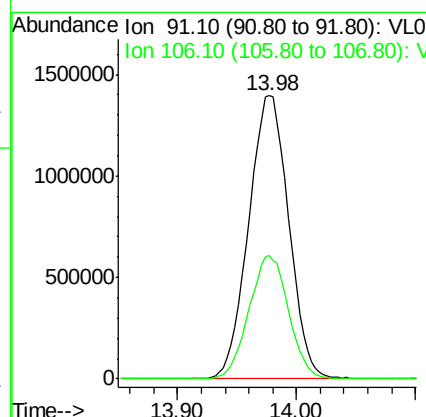
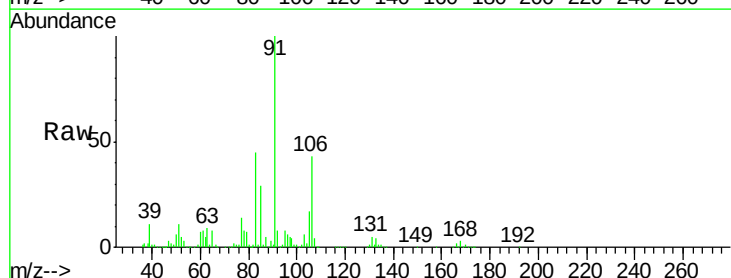
Manual Integrations
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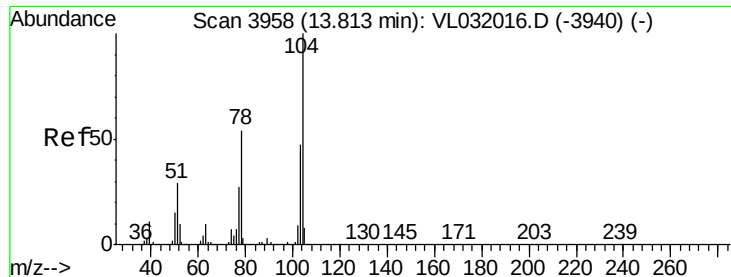
MMDadoda
6/4/2018 3:36:03 PM



#60
o-Xylene
Concen: 10.19 ppbv
RT: 13.98 min Scan# 4009
Delta R.T. -0.00 min
Lab File: VL032046.D
Acq: 2 Jun 2018 9:05

Tgt Ion: 91 Resp: 3249387
Ion Ratio Lower Upper
91 100
106 43.0 21.9 65.5





#61

Stvrene

Concen: 12.70 ppbv

RT: 13.81 min Scan# 3958

Delta R.T. 0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

Instrument :

MSVOA_L

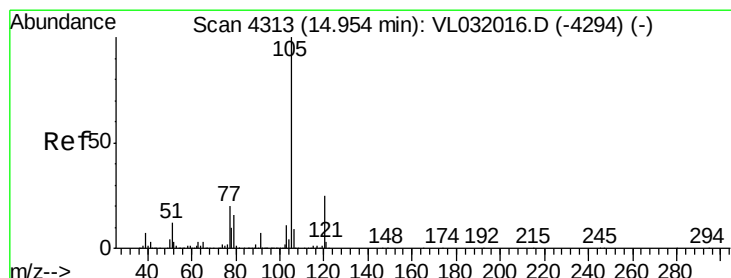
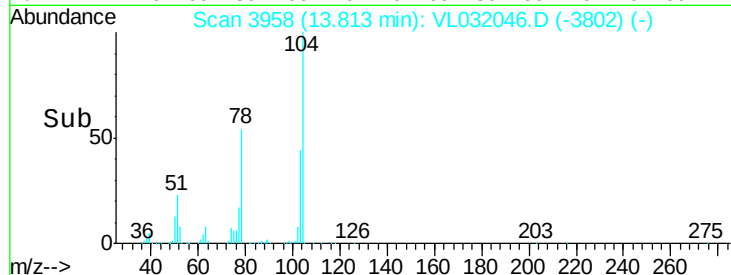
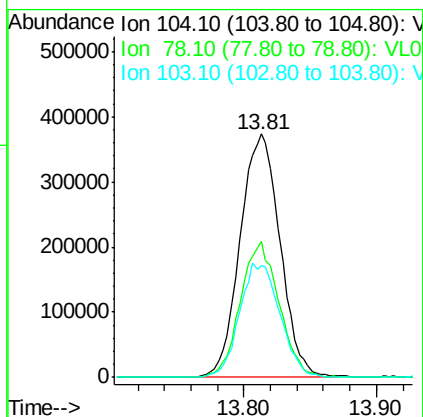
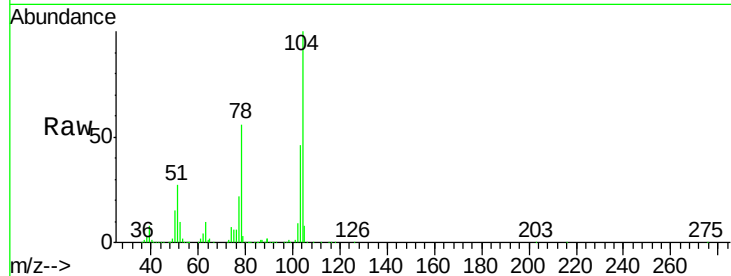
ClientSampleId :

VSTDCCC010EC

Tot Ion:	104	Resp:	782585
Ion Ratio	Lower	Upper	
104	100		
78	54.4	43.0	64.4
103	47.5	37.4	56.2

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#62

Isopropylbenzene

Concen: 10.02 ppbv

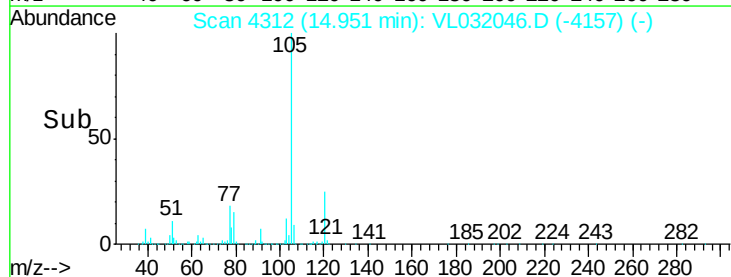
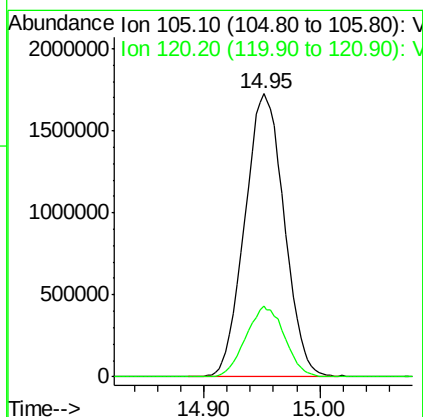
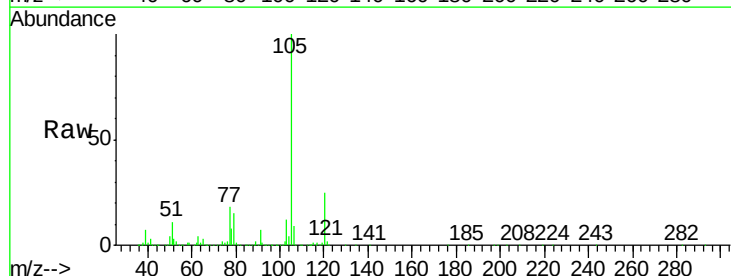
RT: 14.95 min Scan# 4312

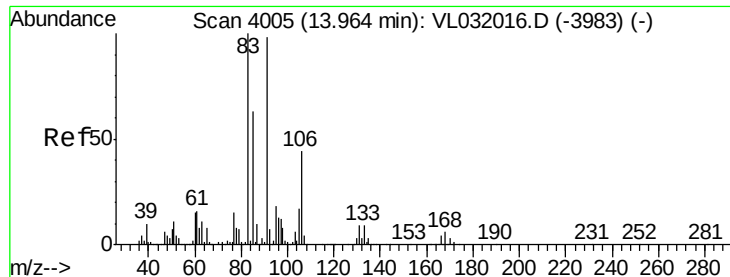
Delta R.T. -0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

Tgt Ion:	105	Resp:	4075009
Ion Ratio	Lower	Upper	
105	100		
120	24.7	19.8	29.8





#63

1,1,2,2-Tetrachloroethane

Concen: 8.57 ppbv

RT: 13.96 min Scan# 4005

Delta R.T. 0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 2116391

Ion Ratio Lower Upper

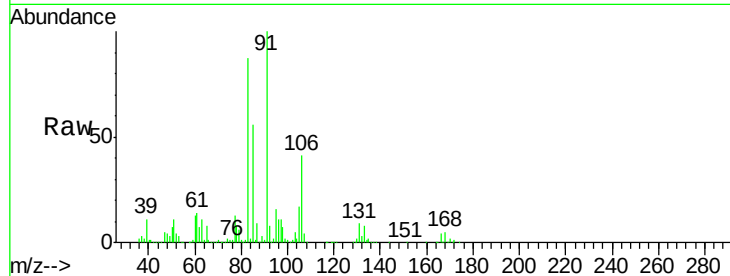
83 100

131 9.8 4.7 14.0

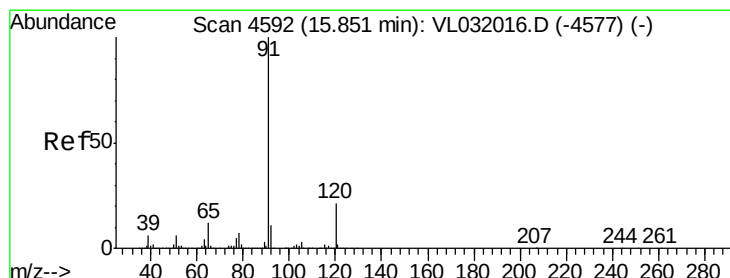
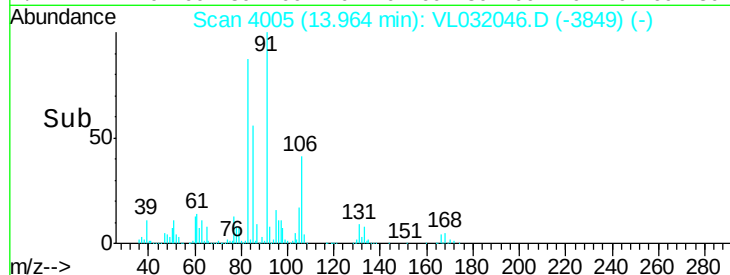
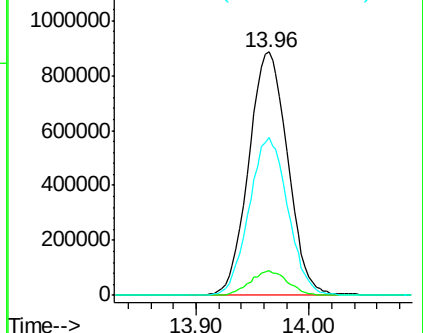
85 64.9 32.2 96.6

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Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 10.13 ppbv

RT: 15.85 min Scan# 4591

Delta R.T. -0.00 min

Lab File: VL032046.D

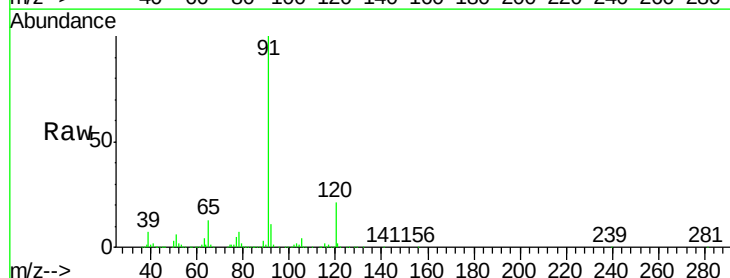
Acq: 2 Jun 2018 9:05

Tgt Ion:120 Resp: 1028630

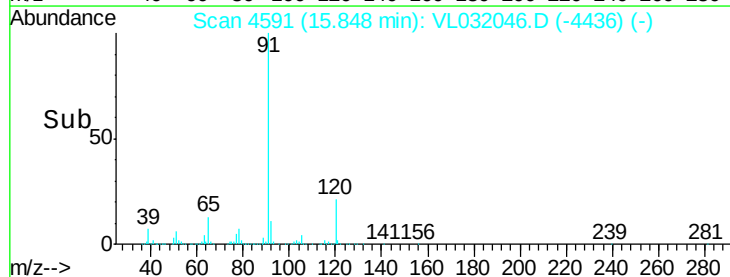
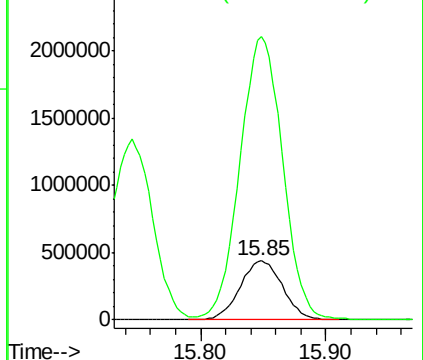
Ion Ratio Lower Upper

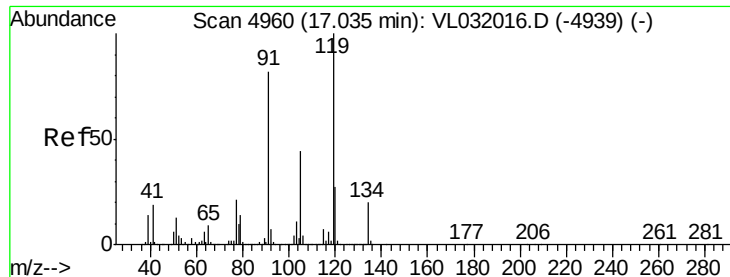
120 100

91 485.0 391.1 586.7



Abundance Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0





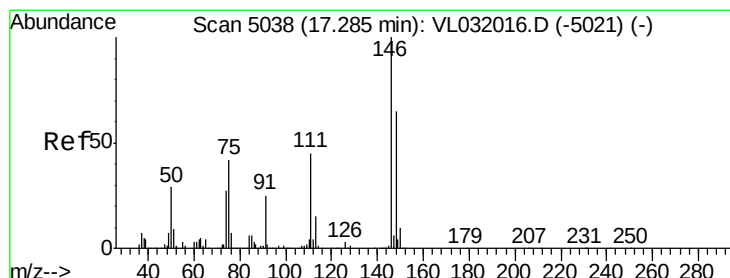
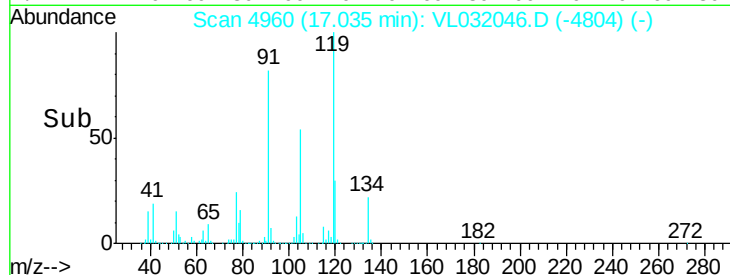
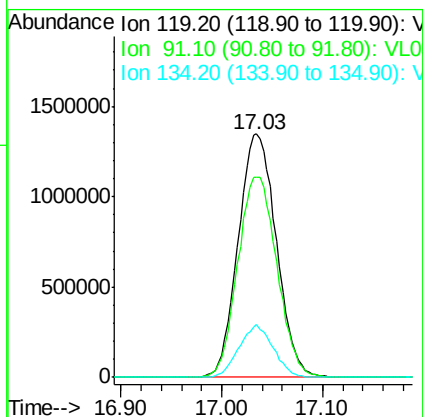
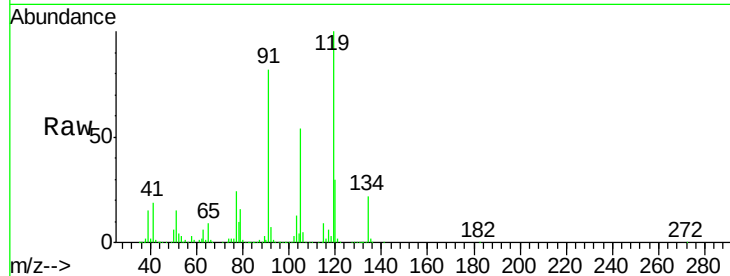
#65
 tert-Butylbenzene
 Concen: 9.92 ppbv
 RT: 17.03 min Scan# 4960
 Delta R.T. 0.00 min
 Lab File: VL032046.D
 Acq: 2 Jun 2018 9:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	84.9	68.2	102.4
134	19.4	15.6	23.4

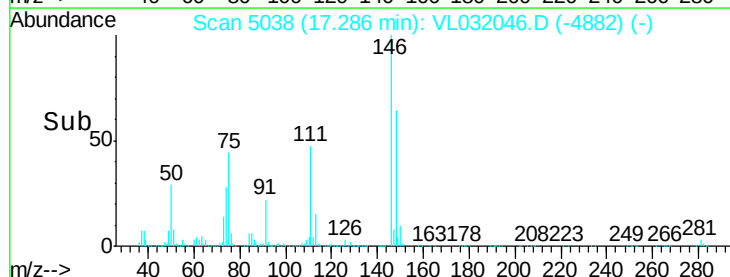
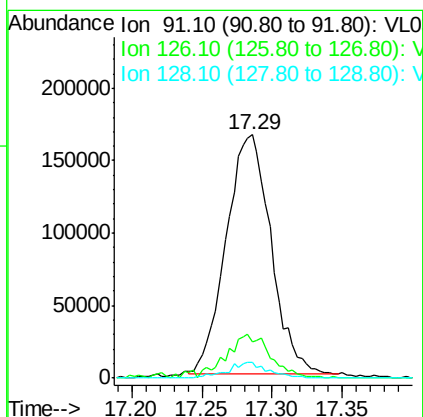
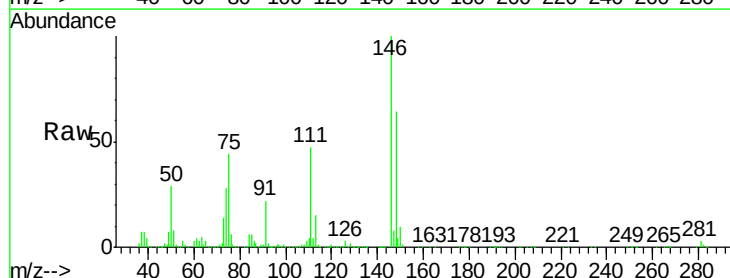
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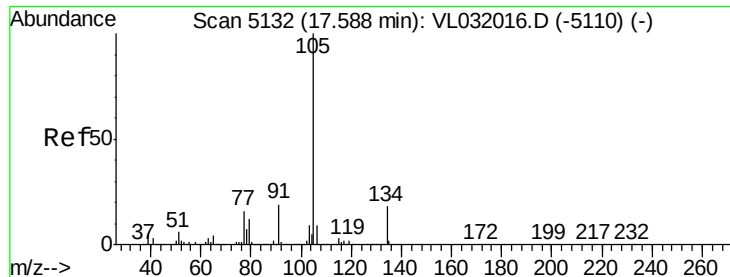
MMDadoda
 6/4/2018 3:36:03 PM



#66
 Benzyl Chloride
 Concen: 9.27 ppbv
 RT: 17.29 min Scan# 5038
 Delta R.T. 0.00 min
 Lab File: VL032046.D
 Acq: 2 Jun 2018 9:05

Tgt Ion	Ratio	Lower	Upper
91	100		
126	20.0	14.2	21.2
128	6.1	4.5	6.7





#67

sec-Butylbenzene

Concen: 9.62 ppbv

RT: 17.58 min Scan# 5131

Delta R.T. -0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 4961236

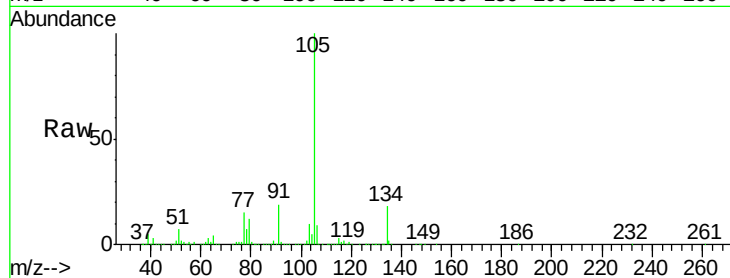
Ion Ratio Lower Upper

105 100

134 18.1 14.4 21.6

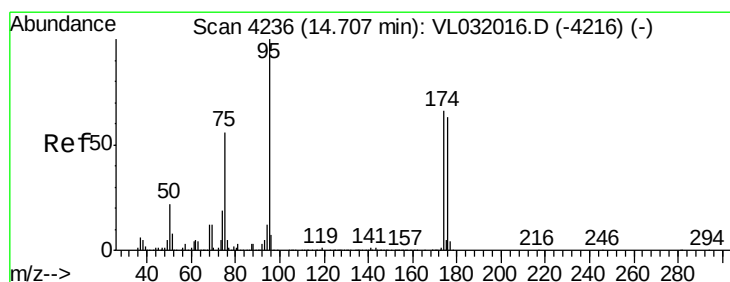
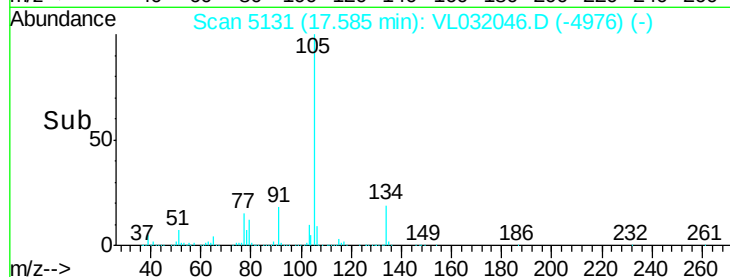
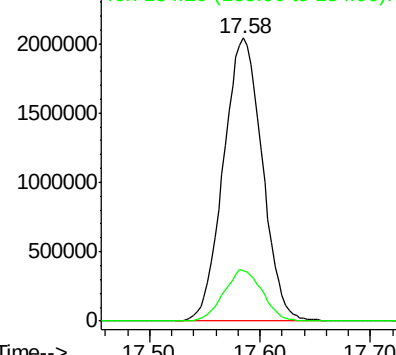
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.29 ppbv

RT: 14.70 min Scan# 4235

Delta R.T. -0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

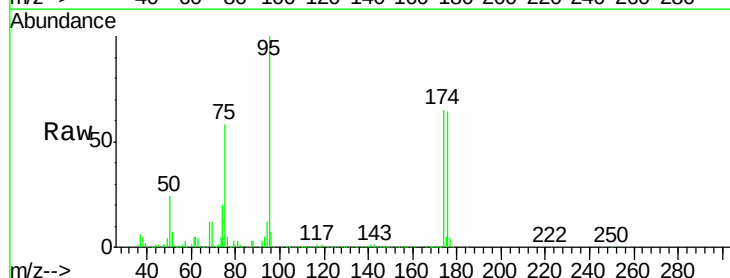
Tgt Ion: 95 Resp: 1850802

Ion Ratio Lower Upper

95 100

174 65.4 53.2 79.8

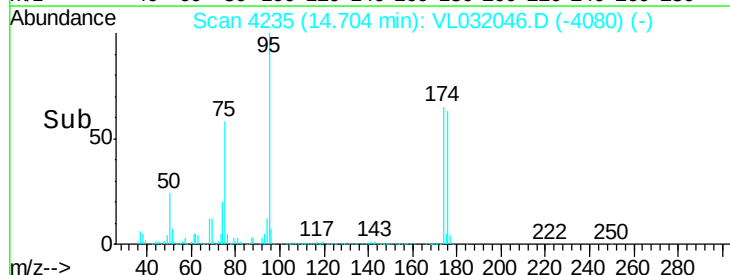
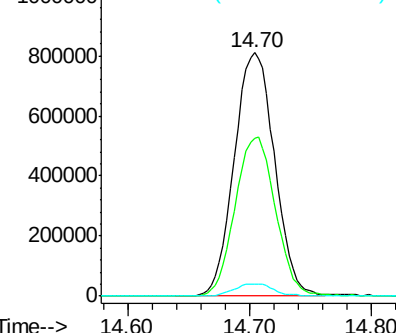
175 4.9 3.7 5.5

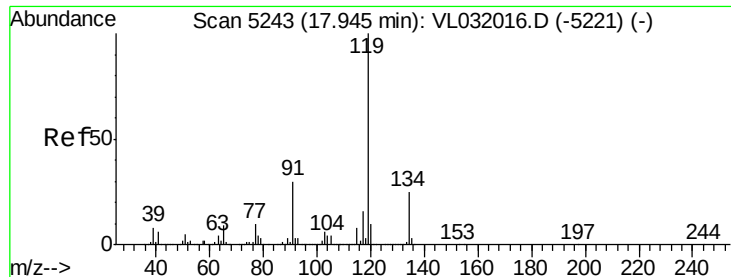


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 10.09 ppbv

RT: 17.94 min Scan# 5241

Delta R.T. -0.01 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 4031230

Ion Ratio Lower Upper

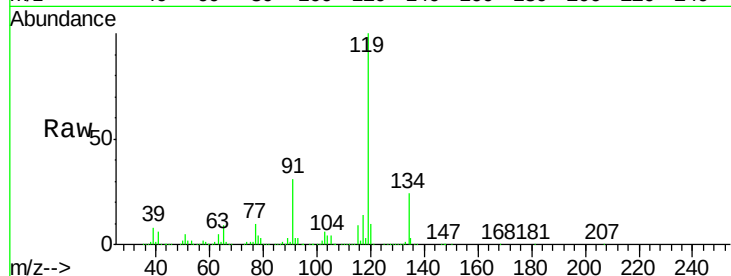
119 100

134 24.5 19.9 29.9

91 30.6 24.1 36.1

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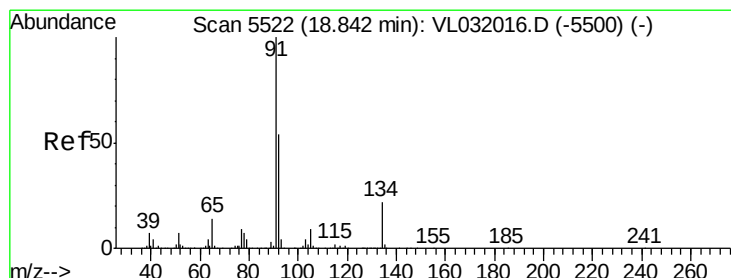
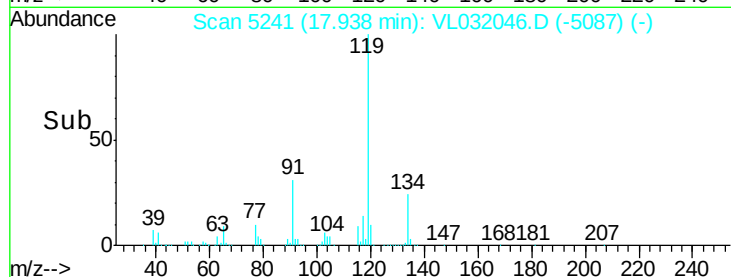
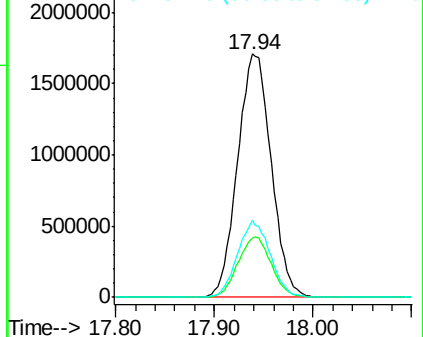
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Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 9.98 ppbv

RT: 18.84 min Scan# 5521

Delta R.T. -0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

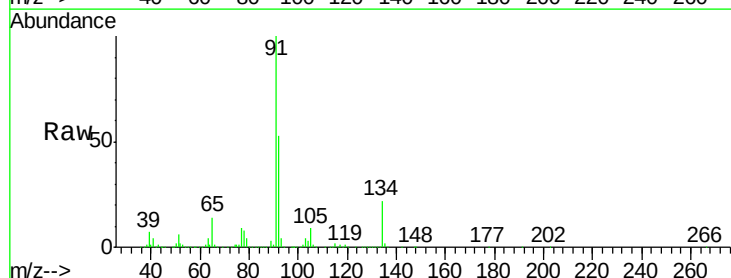
Tgt Ion: 91 Resp: 4107314

Ion Ratio Lower Upper

91 100

92 53.1 42.5 63.7

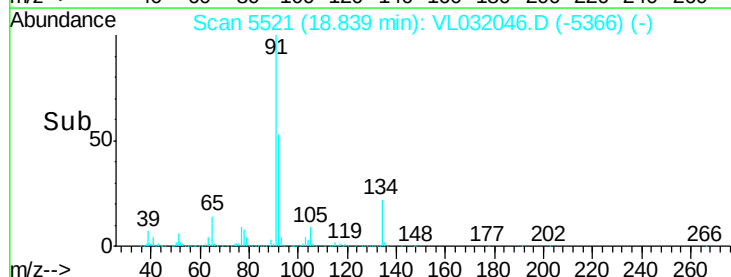
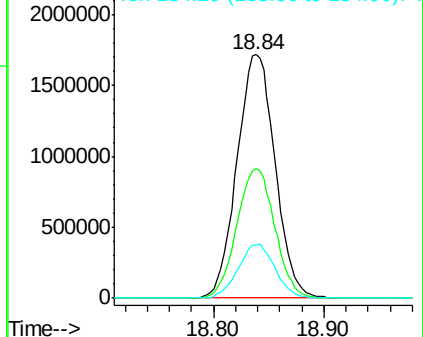
134 21.6 17.4 26.2

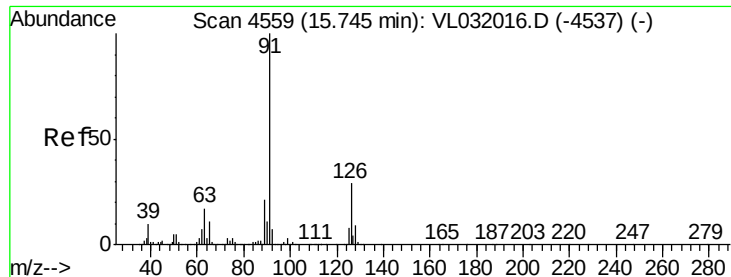


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





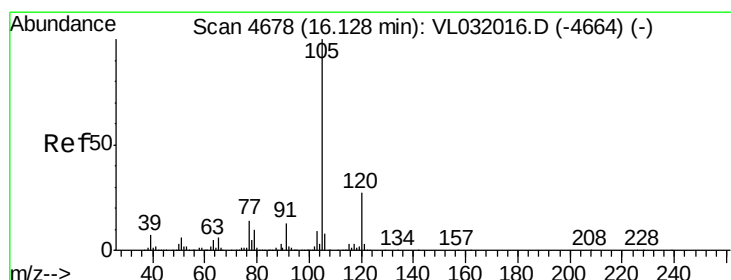
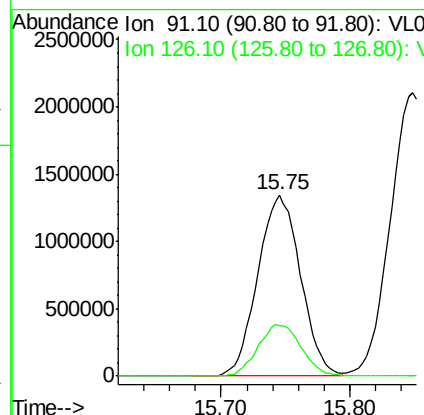
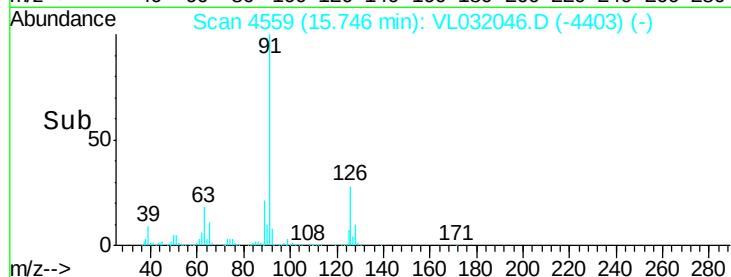
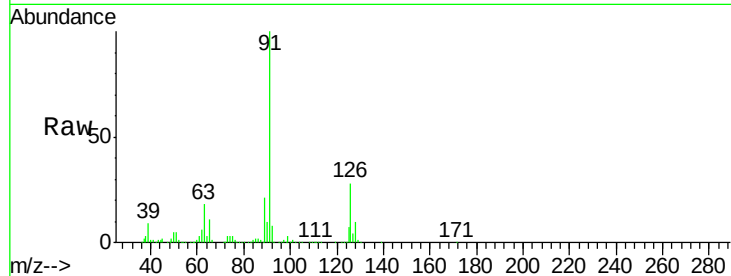
#71
 2-Chlorotoluene
 Concen: 10.40 ppbv
 RT: 15.75 min Scan# 4559
 Delta R.T. 0.00 min
 Lab File: VL032046.D
 Acq: 2 Jun 2018 9:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 91 Resp: 3107298
 Ion Ratio Lower Upper
 91 100
 126 28.9 11.7 46.7

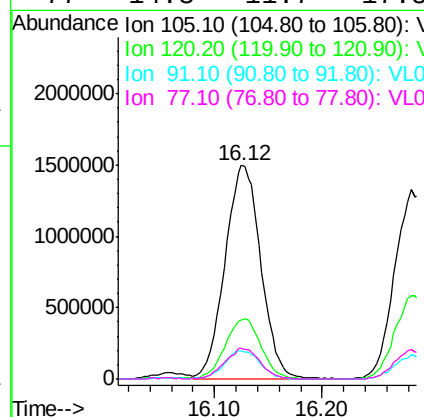
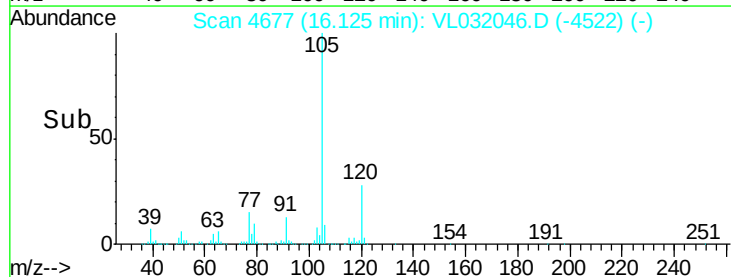
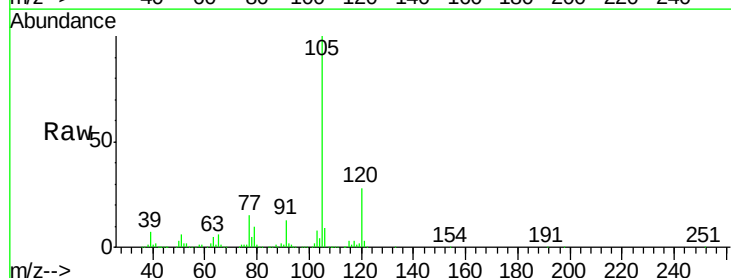
Manual Integrations
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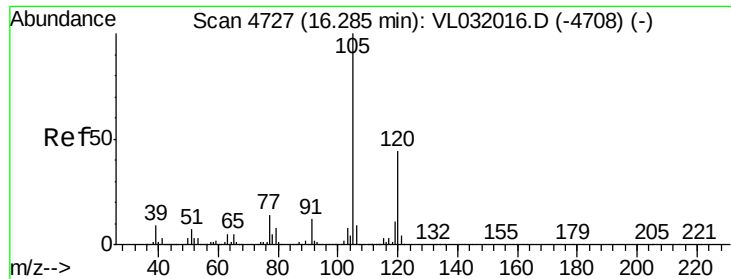
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#72
 4-Ethyltoluene
 Concen: 10.86 ppbv
 RT: 16.12 min Scan# 4677
 Delta R.T. -0.00 min
 Lab File: VL032046.D
 Acq: 2 Jun 2018 9:05

Tgt Ion: 105 Resp: 3444434
 Ion Ratio Lower Upper
 105 100
 120 28.4 23.4 35.0
 91 13.8 10.7 16.1
 77 14.3 11.7 17.5





#73

1,3,5-Trimethylbenzene

Concen: 10.43 ppbv

RT: 16.28 min Scan# 4726

Delta R.T. -0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 3053765

Ion Ratio Lower Upper

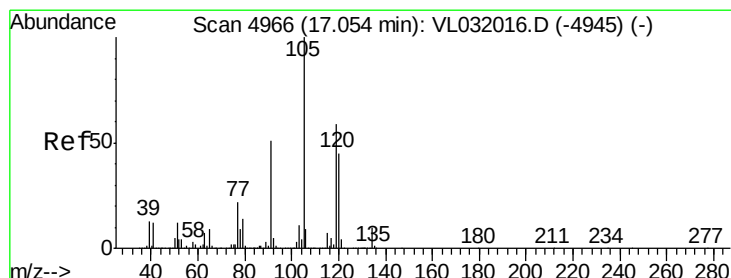
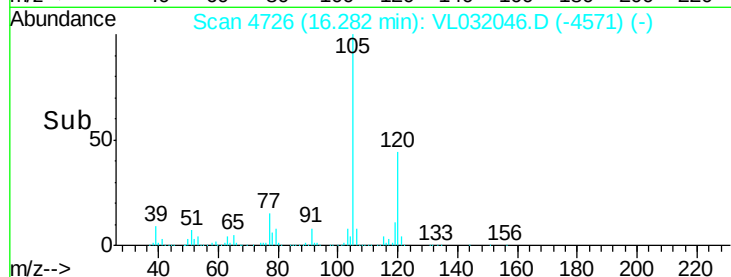
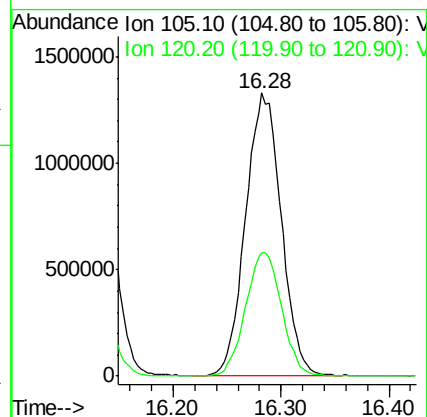
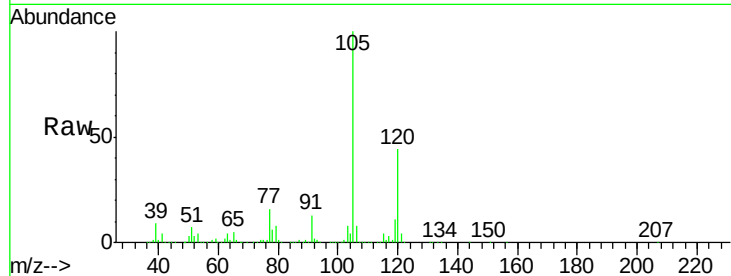
105 100

120 43.5 35.0 52.4

Manual Integrations
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6/4/2018 3:36:03 PM



#74

1,2,4-Trimethylbenzene

Concen: 9.77 ppbv

RT: 17.05 min Scan# 4966

Delta R.T. 0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

Tgt Ion:105 Resp: 3223772

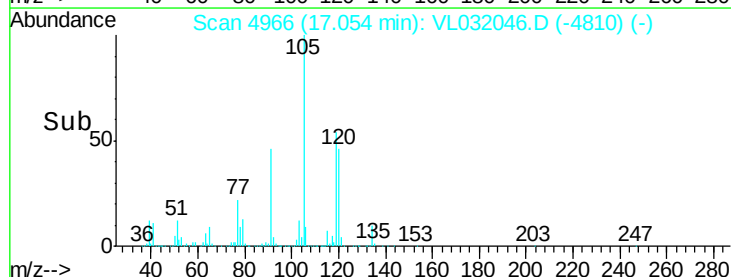
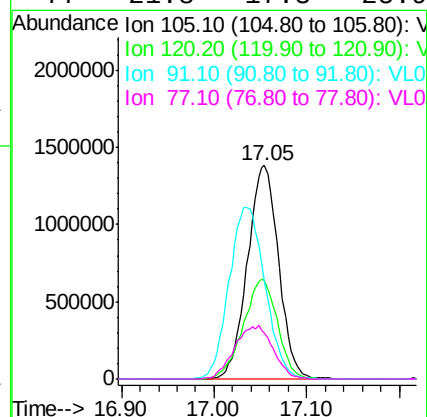
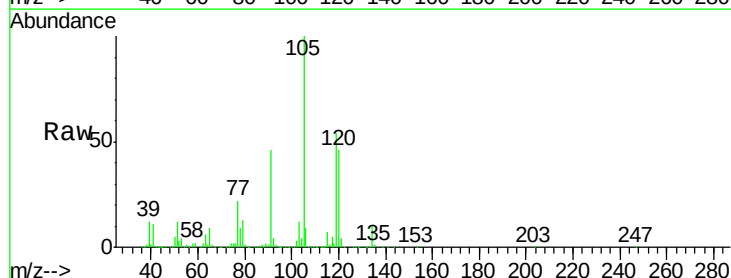
Ion Ratio Lower Upper

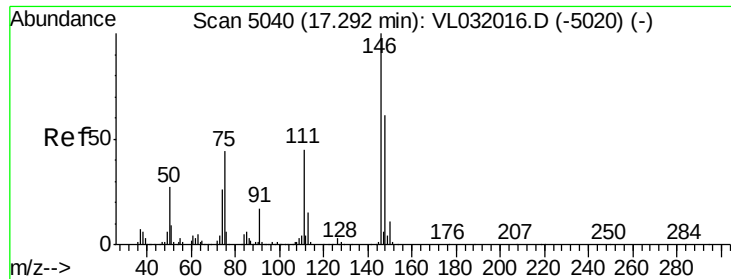
105 100

120 45.9 36.0 54.0

91 46.2 41.4 62.0

77 21.8 17.3 25.9





#75

1,3-Dichlorobenzene

Concen: 8.91 ppbv

RT: 17.30 min Scan# 5041

Delta R.T. 0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 2019318

Ion Ratio Lower Upper

146 100

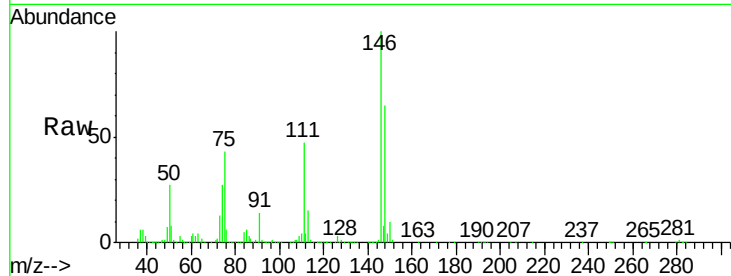
111 47.3 23.7 71.1

148 65.0 32.1 96.5

Manual Integrations
APPROVED

MMDadoda

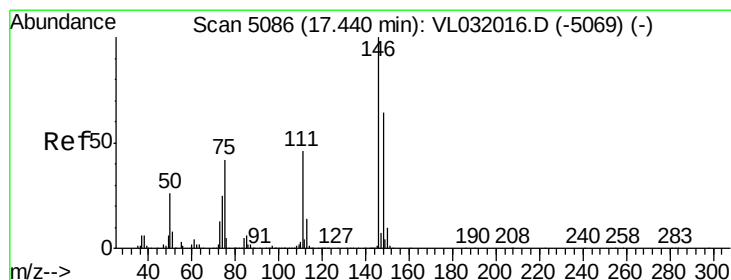
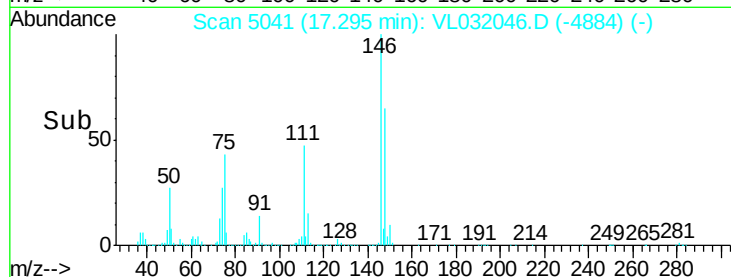
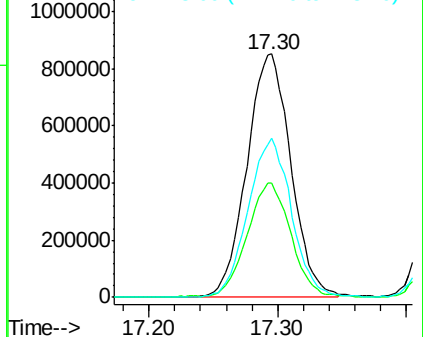
6/4/2018 3:36:03 PM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 9.44 ppbv

RT: 17.44 min Scan# 5085

Delta R.T. -0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

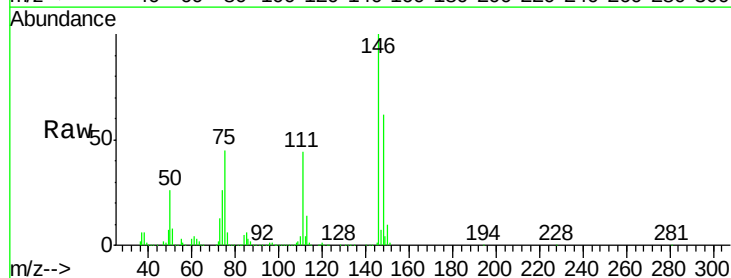
Tgt Ion:146 Resp: 2038712

Ion Ratio Lower Upper

146 100

111 45.5 22.4 67.0

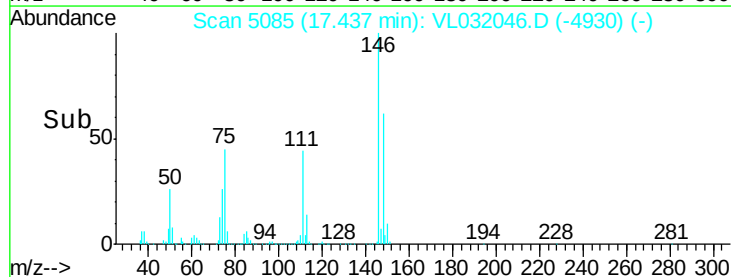
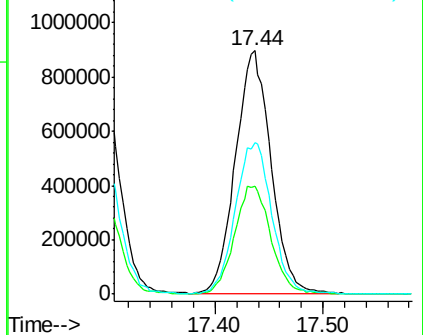
148 64.6 32.1 96.3

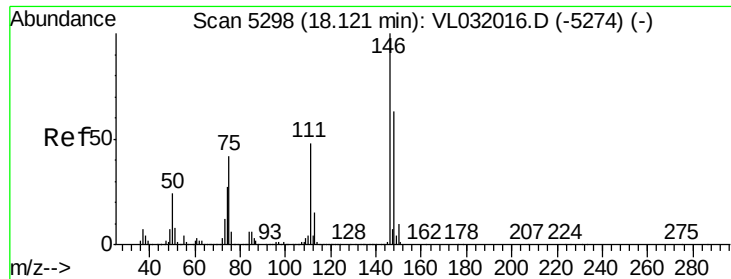


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





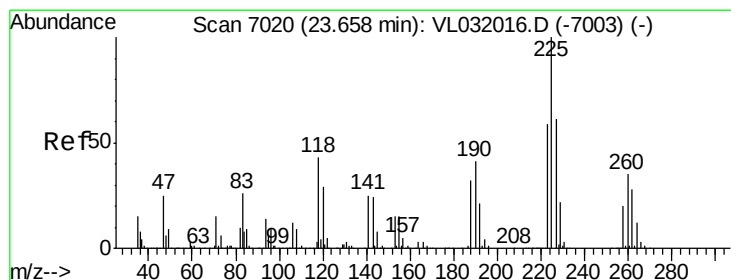
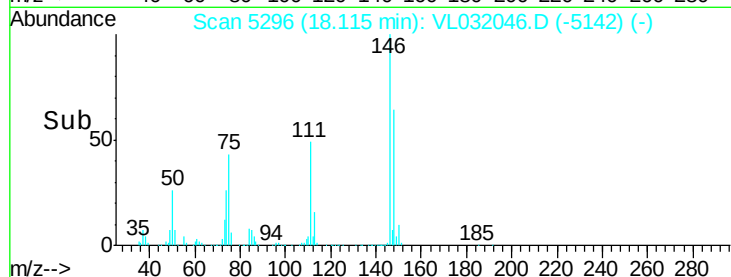
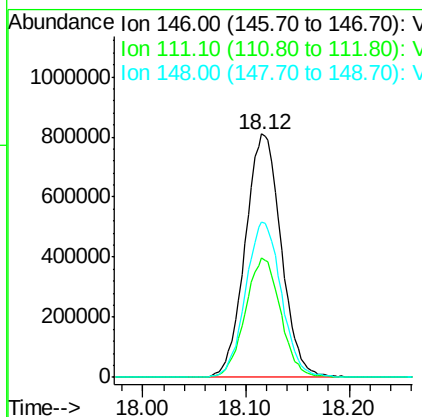
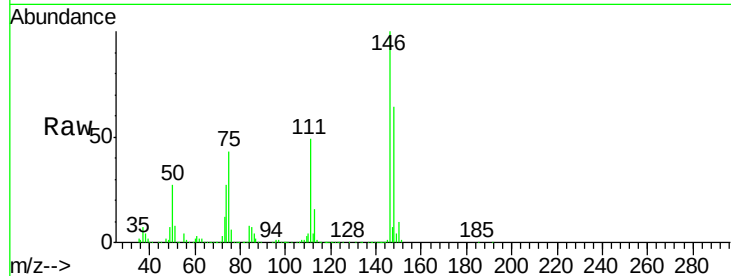
#77
 1,2-Dichlorobenzene
 Concen: 9.13 ppbv
 RT: 18.12 min Scan# 5296
 Delta R.T. -0.01 min
 Lab File: VL032046.D
 Acq: 2 Jun 2018 9:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.4	24.2	72.6
148	63.7	32.0	96.2

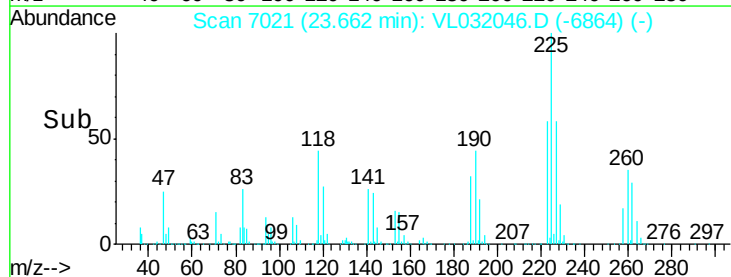
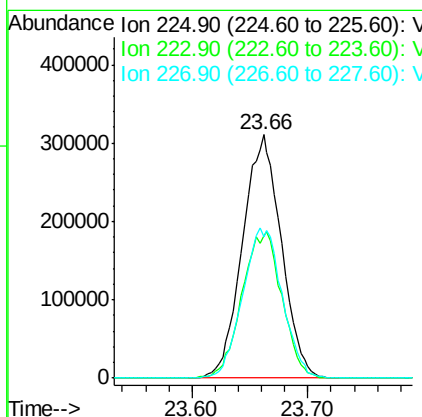
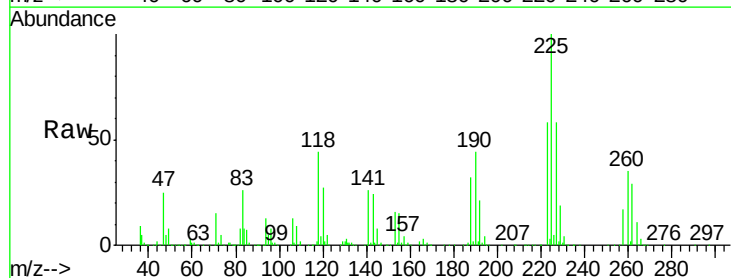
Manual Integrations
 APPROVED

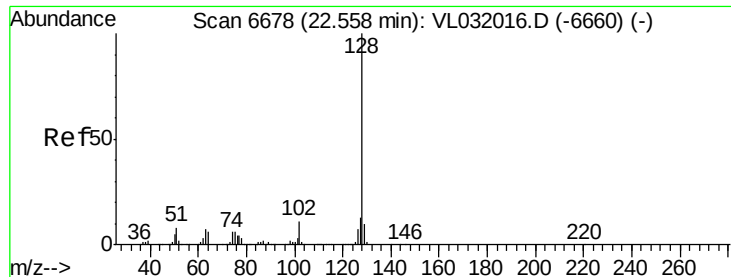
MMDadoda
 6/4/2018 3:36:03 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.49 ppbv
 RT: 23.66 min Scan# 7021
 Delta R.T. 0.00 min
 Lab File: VL032046.D
 Acq: 2 Jun 2018 9:05

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.9	49.4	74.2
227	63.0	51.2	76.8





#79

Naphthalene

Concen: 12.49 ppbv

RT: 22.56 min Scan# 6677

Delta R.T. -0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:128 Resp: 2333168

Ion Ratio Lower Upper

128 100

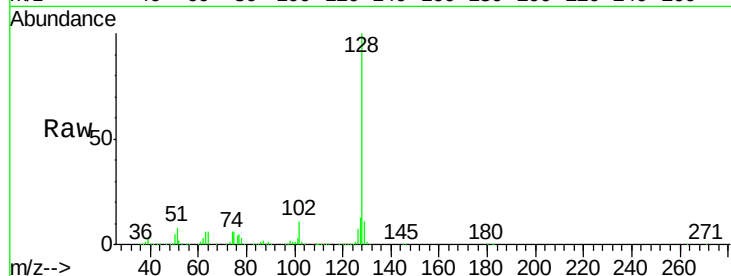
127 12.8 10.2 15.2

129 10.8 8.2 12.2

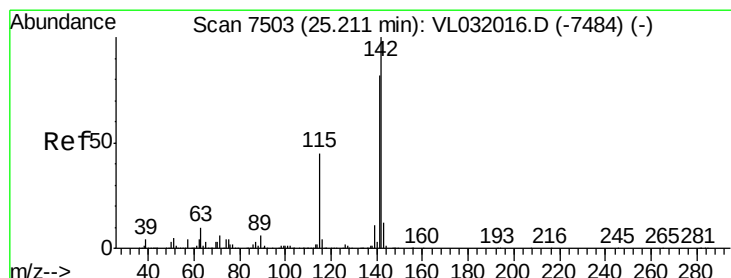
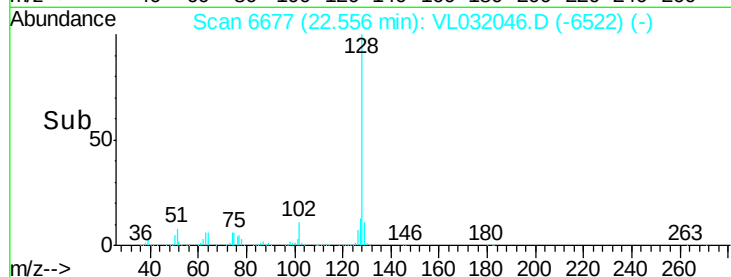
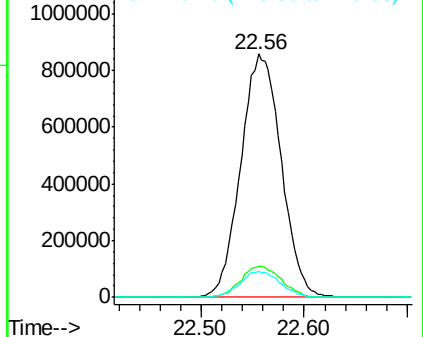
Manual Integrations
APPROVED

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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 25.84 ppbv

RT: 25.21 min Scan# 7502

Delta R.T. -0.00 min

Lab File: VL032046.D

Acq: 2 Jun 2018 9:05

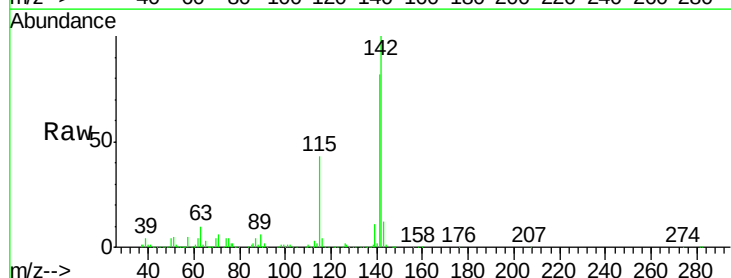
Tgt Ion:142 Resp: 1190491

Ion Ratio Lower Upper

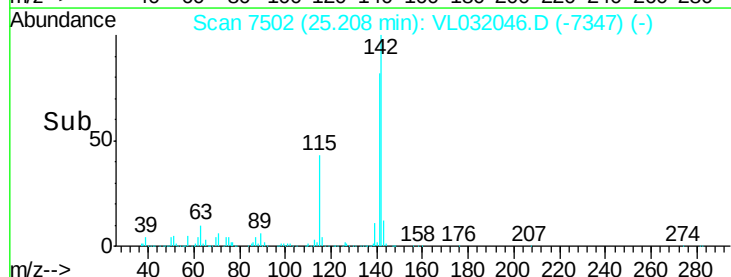
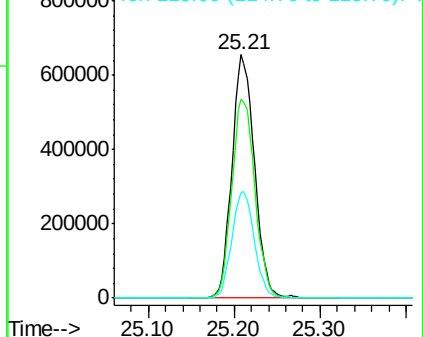
142 100

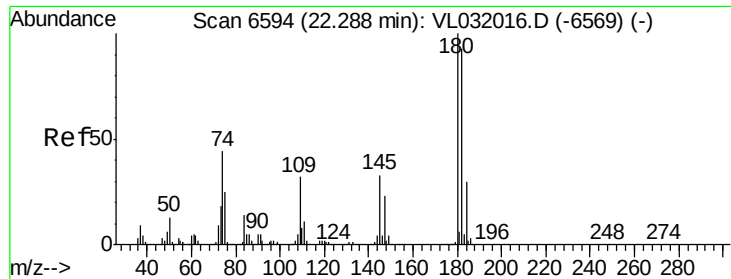
141 84.6 67.4 101.2

115 43.7 35.3 52.9



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 11.03 ppbv
 RT: 22.28 min Scan# 6592
 Delta R.T. -0.01 min
 Lab File: VL032046.D
 Acq: 2 Jun 2018 9:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.2	77.8	116.6
184	30.7	24.9	37.3

Manual Integrations
 APPROVED

MMDadoda
 6/4/2018 3:36:03 PM

