

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110718\
 Data File : VL032740.D
 Acq On : 8 Nov 2018 9:49
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 11/12/2018 12:30:25 PM

Quant Time: Nov 08 12:17:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 2
 QLast Update : Thu Oct 25 05:15:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1362311	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	3400844	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3521654m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2654405	10.12	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1752836	12.629	ppbv	100
3) Chlorodifluoromethane	3.02	51	999587	9.382	ppbv	98
4) Chloromethane	3.18	50	517956	8.700	ppbv	95
5) Vinyl Chloride	3.30	62	540048	8.374	ppbv	99
6) Bromomethane	3.52	94	351370	8.739	ppbv	94
7) Chloroethane	3.61	64	212034	8.929	ppbv	90
8) Dichlorotetrafluoroethane	3.23	85	1355142	9.263	ppbv	93
9) Propene	3.04	41	386768	8.821	ppbv	100
10) Heptane	8.26	43	1703422	10.082	ppbv	100
11) Trichlorofluoromethane	4.01	101	1610249	8.882	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1586902	10.525	ppbv	94
13) Ethanol	3.66	45	100567	8.025	ppbv	96
14) Bromoethene	3.80	108	469945	9.223	ppbv	98
15) Acetone	3.91	43	1058604	8.415	ppbv	97
16) 1,3-Butadiene	3.37	39	454300	9.817	ppbv	82
17) tert-Butyl alcohol	4.36	59	120217	3.249	ppbv #	100
18) 1,1-Dichloroethene	4.36	96	698811	10.550	ppbv	98
19) Isopropyl Alcohol	4.03	45	696756	7.777	ppbv	99
20) Methylene Chloride	4.42	84	614129	9.617	ppbv	91
21) Allyl Chloride	4.49	41	1159573	11.227	ppbv	96
22) trans-1,2-Dichloroethene	4.97	96	670247	9.865	ppbv	91
23) Vinyl Acetate	5.17	43	2220719	9.962	ppbv	100
24) 1,1-Dichloroethane	5.10	63	1542880	8.817	ppbv	99
25) Ethyl Acetate	5.78	43	2819932	9.739	ppbv	99
26) Hexane	5.79	57	1261346	9.206	ppbv	95
27) Carbon Disulfide	4.63	76	1804240	10.856	ppbv	98
28) Methyl tert-Butyl Ether	5.13	73	1643722	8.348	ppbv	99
29) Chloroform	5.86	83	2287859	10.454	ppbv	96
30) Cyclohexane	7.26	84	1136396	10.479	ppbv	97
31) cis-1,2-Dichloroethene	5.65	61	1313951	10.343	ppbv	96
32) 1,1,1-Trichloroethane	6.63	97	2309756	10.385	ppbv	99
34) 2-Butanone	5.34	43	1825699	10.014	ppbv	99
35) Carbon Tetrachloride	7.15	117	2526718	10.468	ppbv	100
36) Benzene	7.02	78	2725750	9.870	ppbv	98
37) 1,2-Dichloroethane	6.43	62	1821937	10.756	ppbv	100
38) Trichloroethene	7.97	130	1104172	10.801	ppbv	98
39) 1,2-Dichloropropane	7.75	63	1028181	9.641	ppbv #	88
40) 1,4-Dioxane	7.97	88	380914	10.458	ppbv #	99
41) Tetrahydrofuran	6.16	42	1078773	10.619	ppbv	99
42) Bromodichloromethane	7.93	83	2544197	10.720	ppbv	99
43) Methyl Methacrylate	8.15	69	1121927	11.085	ppbv	95

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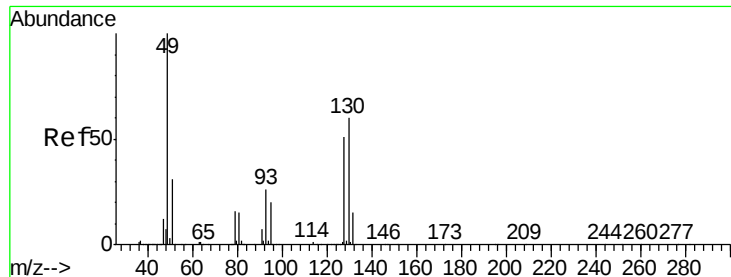
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	4680229	9.927	ppbv	98
45) t-1,3-Dichloropropene	9.43	75	1582576	11.681	ppbv	100
46) cis-1,3-Dichloropropene	8.85	75	1880258	12.147	ppbv	97
47) 1,1,2-Trichloroethane	9.62	97	1274522	10.114	ppbv	96
48) Dibromochloromethane	10.46	129	2195560	10.453	ppbv	100
49) Bromoform	13.21	173	1952572	11.830	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	3051245	11.297	ppbv	98
51) 2-Hexanone	10.28	43	2275342	11.333	ppbv	97
52) Tetrachloroethene	11.38	164	997058	10.355	ppbv	97
53) Toluene	9.96	91	3254150	10.279	ppbv	98
54) 1,2-Dibromoethane	10.77	107	1863650	10.881	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.29	131	1585096	10.293	ppbv	98
57) Chlorobenzene	12.32	112	2560307	9.886	ppbv	95
58) Ethyl Benzene	12.88	91	4502631	11.006	ppbv	99
59) m/p-Xylene	13.16	91	7423975m	20.377	ppbv	
60) o-Xylene	13.86	91	3715777	10.573	ppbv	99
61) Styrene	13.70	104	2657884	11.280	ppbv	99
62) Isopropylbenzene	14.84	105	5294337	10.645	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	2696927	9.795	ppbv	99
64) n-propylbenzene	15.73	120	1359281m	10.996	ppbv	
65) tert-Butylbenzene	16.92	119	4673038	11.032	ppbv	99
66) Benzyl Chloride	17.17	91	2587315	11.830	ppbv	99
67) sec-Butylbenzene	17.47	105	6661752	11.058	ppbv	99
69) p-Isopropyltoluene	17.83	119	5485549	11.490	ppbv	99
70) n-Butylbenzene	18.72	91	5726477	11.651	ppbv	99
71) 2-Chlorotoluene	15.63	91	4113906	11.638	ppbv	100
72) 4-Ethyltoluene	16.01	105	4350442	11.623	ppbv	100
73) 1,3,5-Trimethylbenzene	16.17	105	4157148	11.403	ppbv	98
74) 1,2,4-Trimethylbenzene	16.94	105	4272166	10.973	ppbv	93
75) 1,3-Dichlorobenzene	17.18	146	2456139	10.971	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2420360	11.715	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	2399016	11.310	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1538465	15.351	ppbv	99
79) Naphthalene	22.43	128	3290415	13.597	ppbv	99
80) Naphthalene, 2-methyl-	25.13	142	842750	14.321	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	1726887	13.779	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.01 min

Lab File: VL032740.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1362311

Ion Ratio Lower Upper

49 100

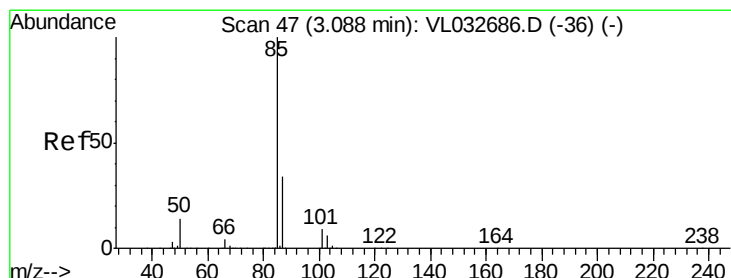
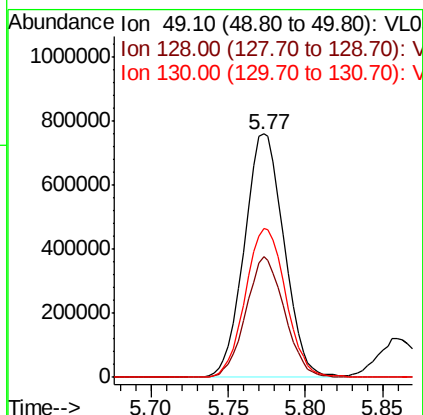
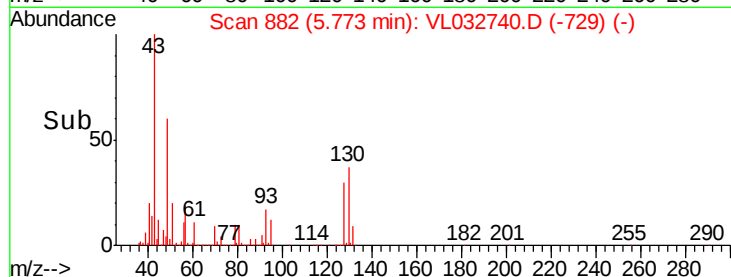
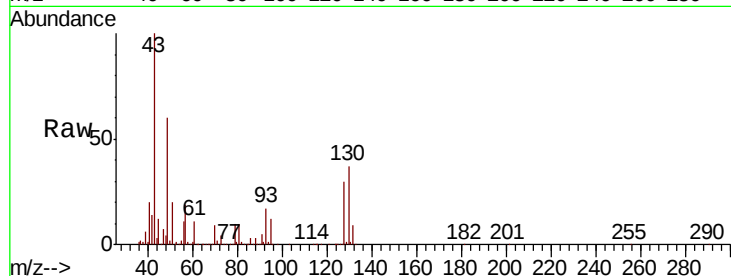
128 48.4 22.3 66.8

130 62.3 28.4 85.3

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 12.629 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032740.D

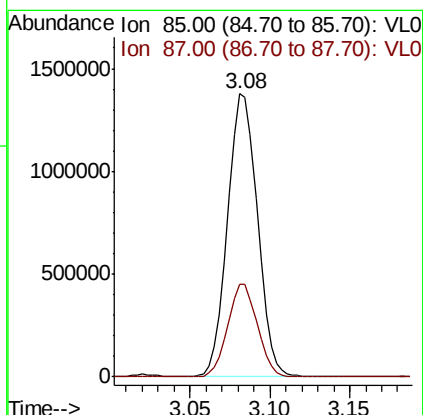
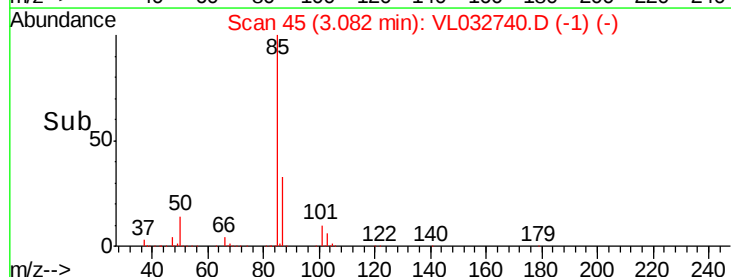
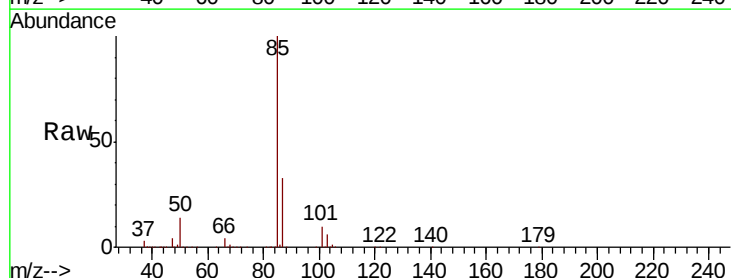
Acq: 8 Nov 2018 9:49

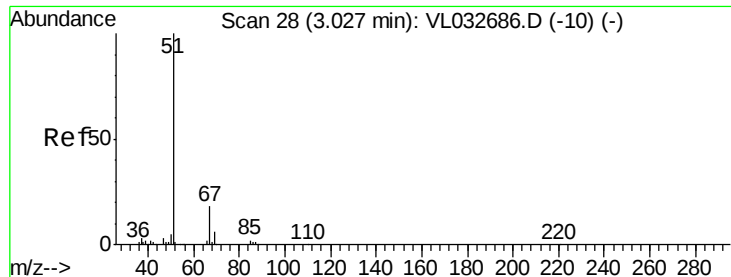
Tgt Ion: 85 Resp: 1752836

Ion Ratio Lower Upper

85 100

87 32.6 26.2 39.2





#3

Chlorodifluoromethane

Concen: 9.382 ppbv

RT: 3.02 min Scan# 26

Delta R.T. -0.00 min

Lab File: VL032740.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 999587

Ion Ratio Lower Upper

51 100

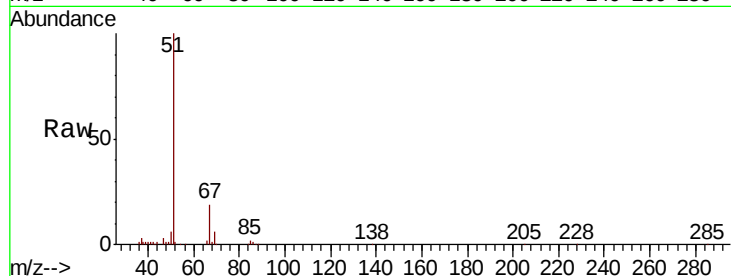
67 19.9 15.2 22.8

Manual Integrations

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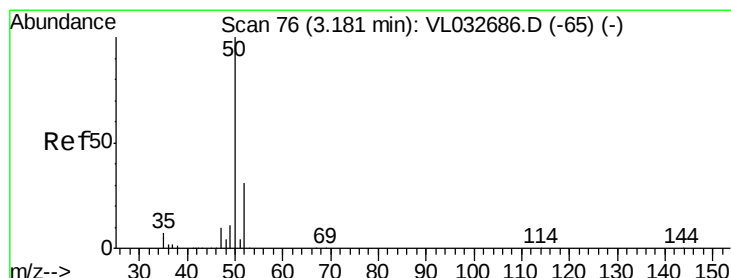
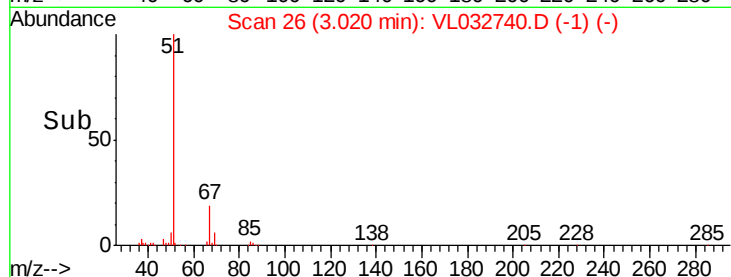
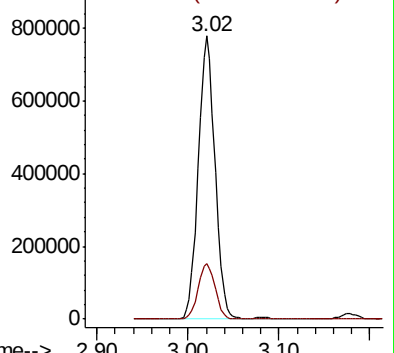
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 8.700 ppbv

RT: 3.18 min Scan# 75

Delta R.T. -0.00 min

Lab File: VL032740.D

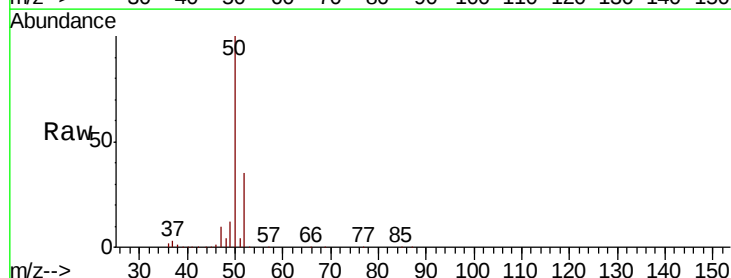
Acq: 8 Nov 2018 9:49

Tgt Ion: 50 Resp: 517956

Ion Ratio Lower Upper

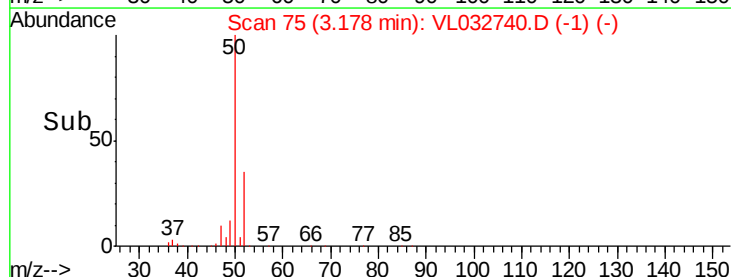
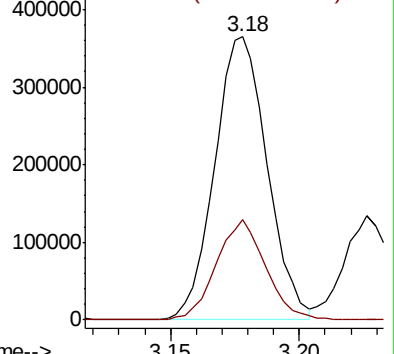
50 100

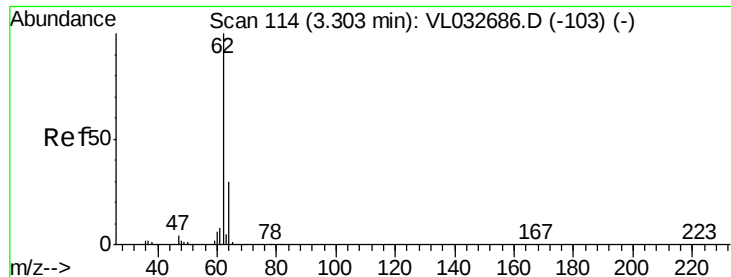
52 35.4 25.9 38.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.374 ppbv

RT: 3.30 min Scan# 112

Delta R.T. -0.00 min

Lab File: VL032740.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 540048

Ion Ratio Lower Upper

62 100

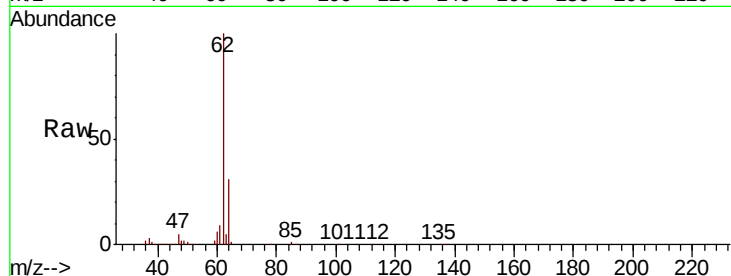
64 31.4 25.5 38.3

Manual Integrations

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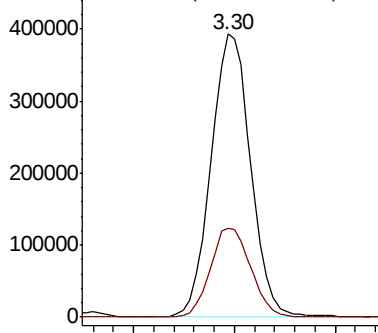
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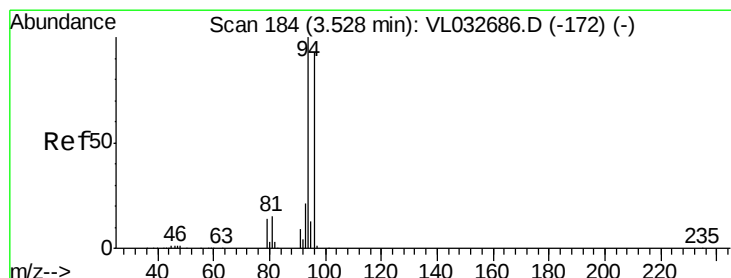
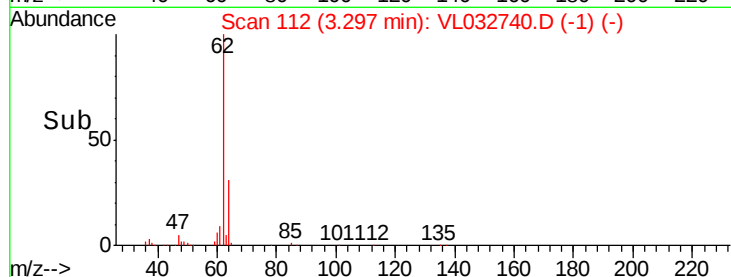


Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



Time-->



#6

Bromomethane

Concen: 8.739 ppbv

RT: 3.52 min Scan# 182

Delta R.T. -0.00 min

Lab File: VL032740.D

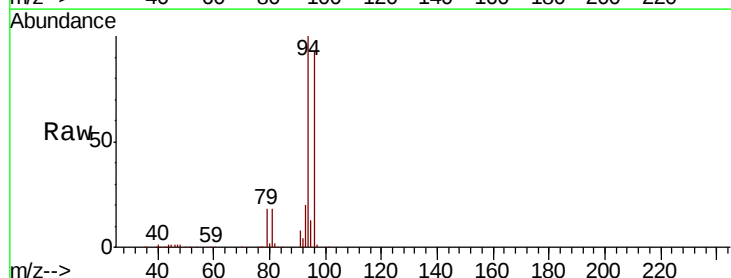
Acq: 8 Nov 2018 9:49

Tgt Ion: 94 Resp: 351370

Ion Ratio Lower Upper

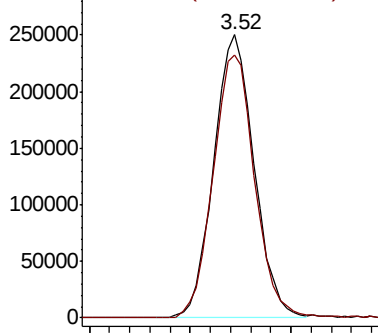
94 100

96 92.8 69.8 104.8

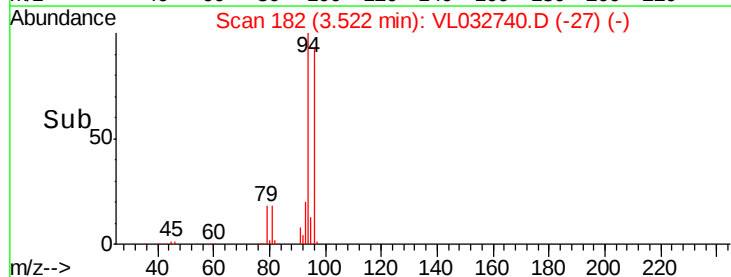


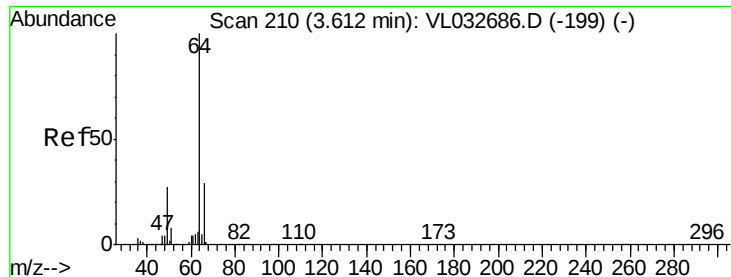
Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



Time-->





#7

Chloroethane

Concen: 8.929 ppbv

RT: 3.61 min Scan# 209

Delta R.T. -0.00 min

Lab File: VL032740.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 212034

Ion Ratio Lower Upper

64 100

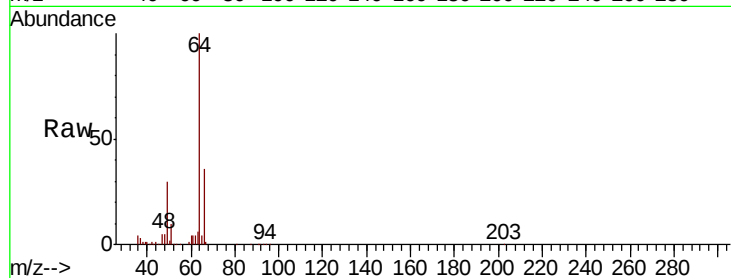
66 35.7 24.4 36.6

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.61

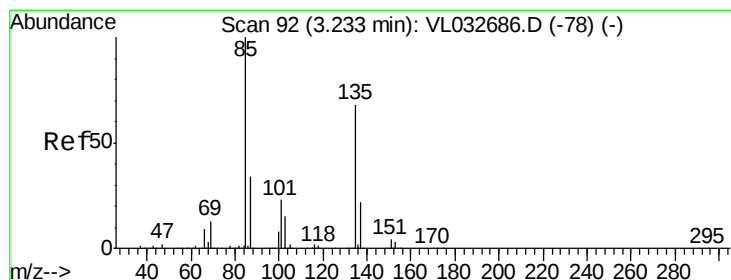
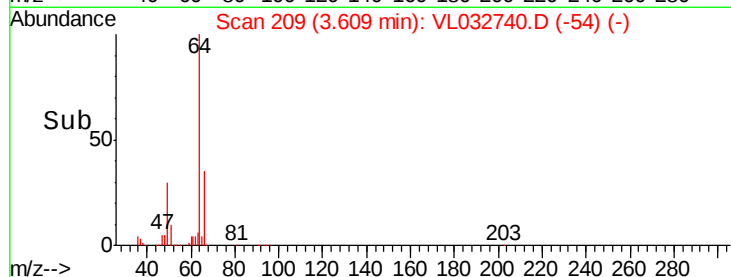
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.263 ppbv

RT: 3.23 min Scan# 90

Delta R.T. -0.00 min

Lab File: VL032740.D

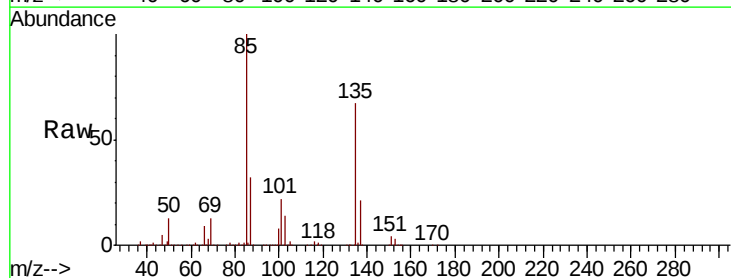
Acq: 8 Nov 2018 9:49

Tgt Ion: 85 Resp: 1355142

Ion Ratio Lower Upper

85 100

135 66.7 49.0 73.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1200000

1000000

800000

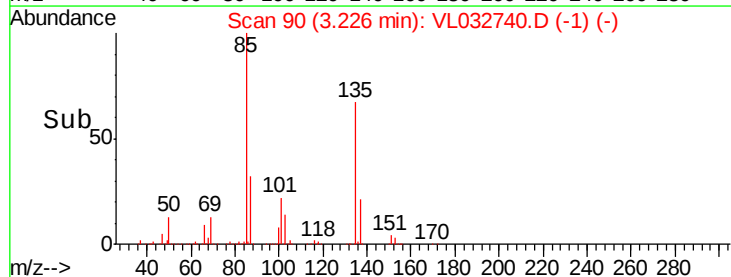
600000

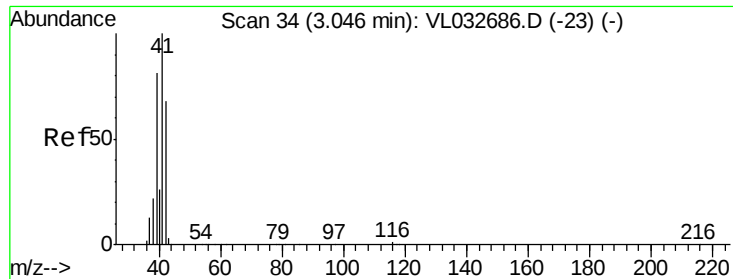
400000

200000

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Time-->





#9

Propene

Concen: 8.821 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL032740.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 386768

Ion Ratio Lower Upper

41 100

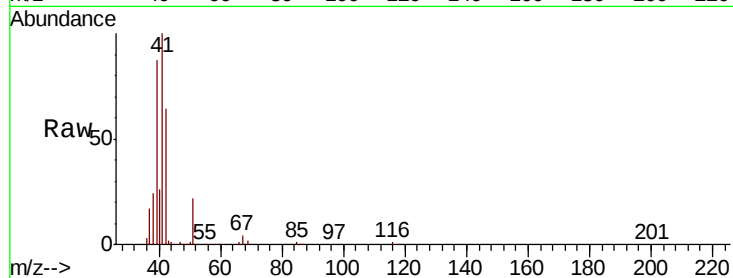
42 69.3 55.4 83.0

Manual Integrations

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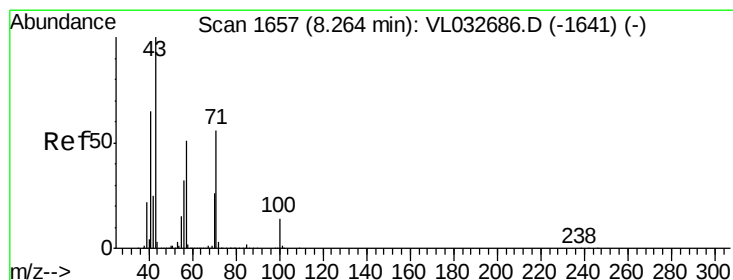
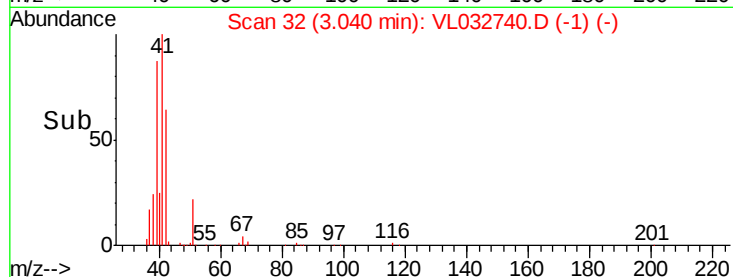
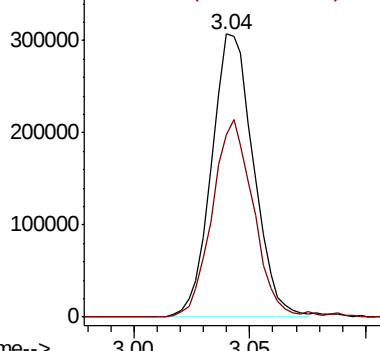
MMDadoda

11/12/2018 12:30:25 PM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 10.082 ppbv

RT: 8.26 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VL032740.D

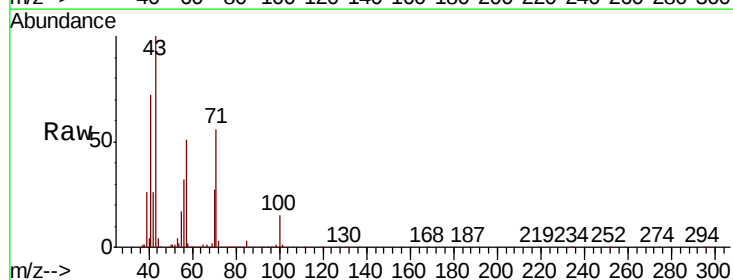
Acq: 8 Nov 2018 9:49

Tgt Ion: 43 Resp: 1703422

Ion Ratio Lower Upper

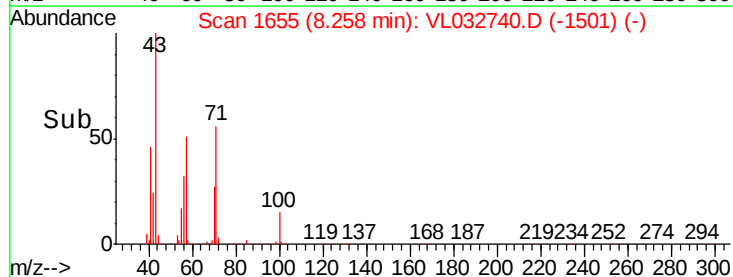
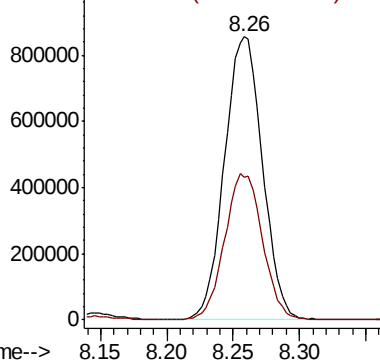
43 100

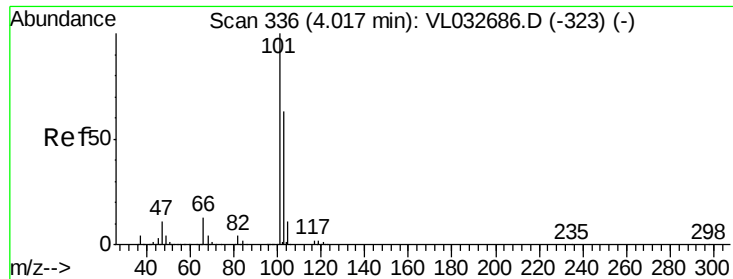
57 51.6 41.5 62.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 8.882 ppbv

RT: 4.01 min Scan# 334

Delta R.T. -0.00 min

Lab File: VL032740.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:101 Resp: 1610249

Ion Ratio Lower Upper

101 100

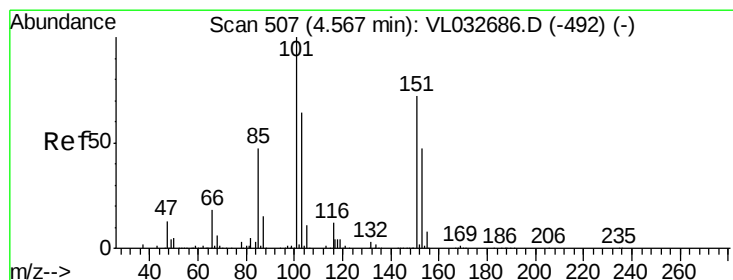
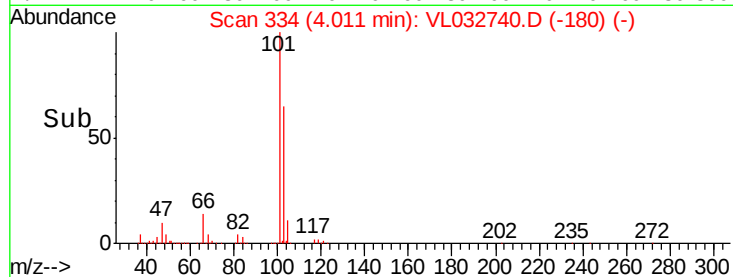
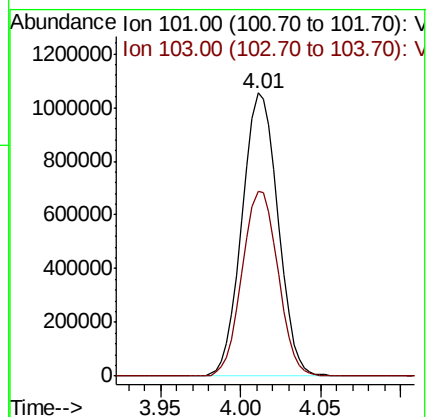
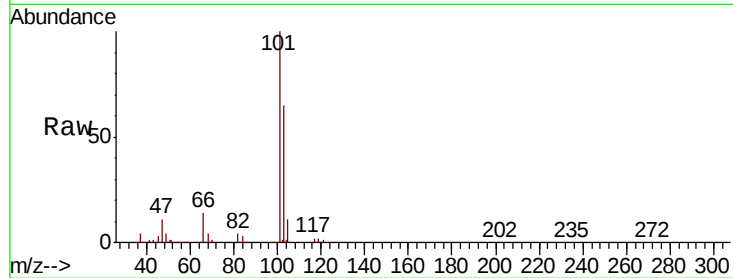
103 65.4 51.4 77.2

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 10.525 ppbv

RT: 4.56 min Scan# 505

Delta R.T. -0.00 min

Lab File: VL032740.D

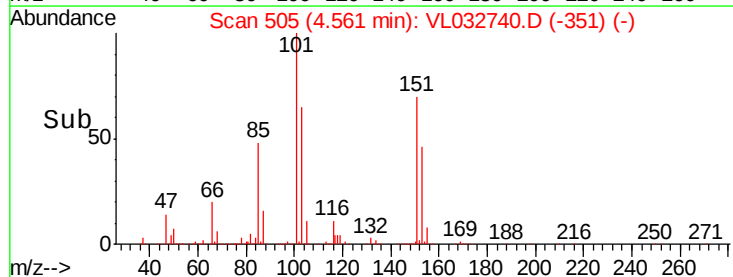
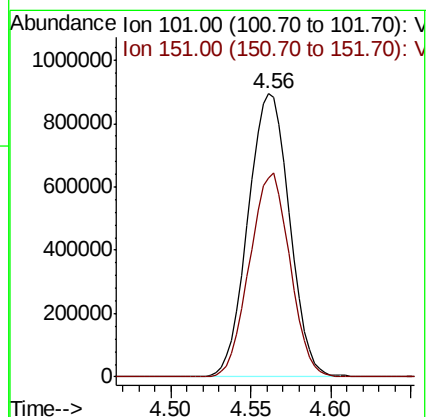
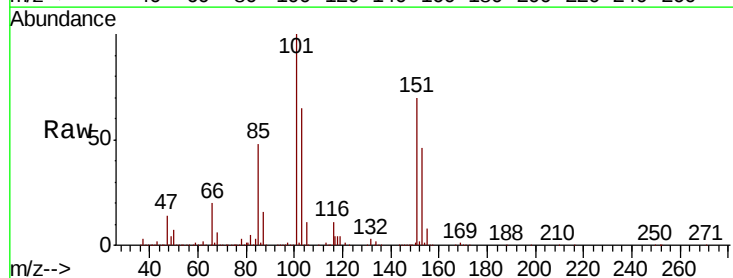
Acq: 8 Nov 2018 9:49

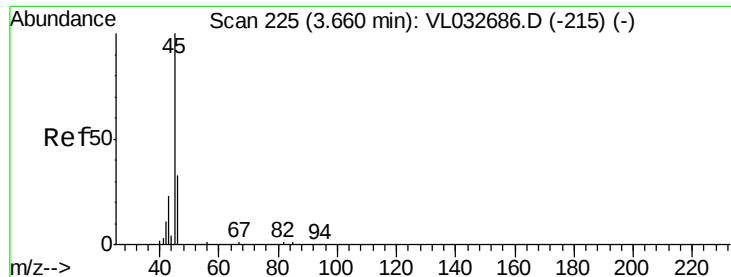
Tgt Ion:101 Resp: 1586902

Ion Ratio Lower Upper

101 100

151 70.1 52.3 78.5





#13

Ethanol

Concen: 8.025 ppbv

RT: 3.66 min Scan# 225

Delta R.T. -0.00 min

Lab File: VL032740.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 100567

Ion Ratio Lower Upper

45 100

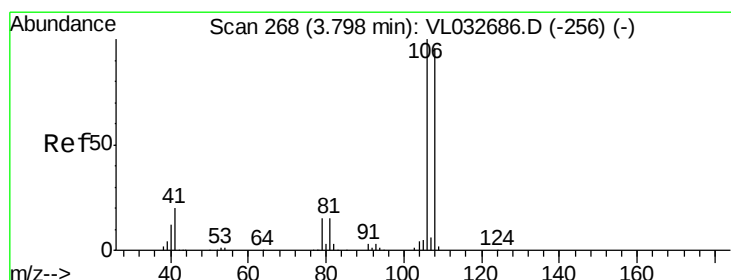
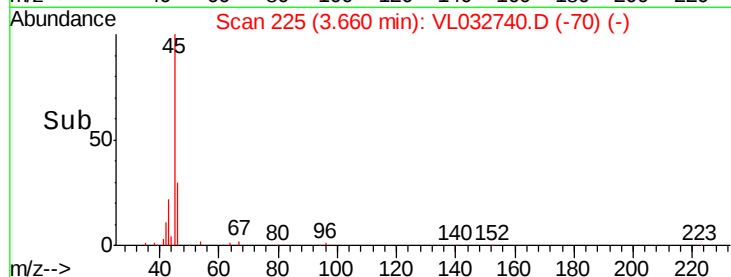
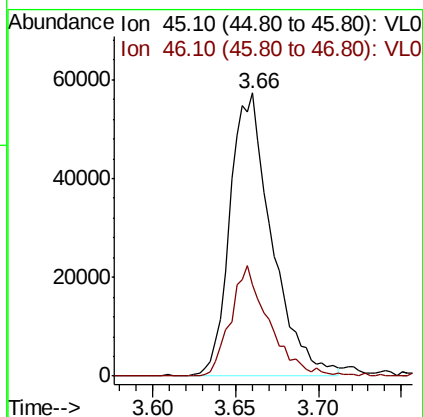
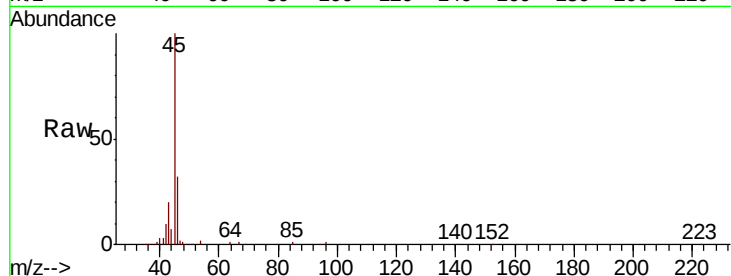
46 36.2 15.4 61.8

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#14

Bromoethene

Concen: 9.223 ppbv

RT: 3.80 min Scan# 267

Delta R.T. -0.00 min

Lab File: VL032740.D

Acq: 8 Nov 2018 9:49

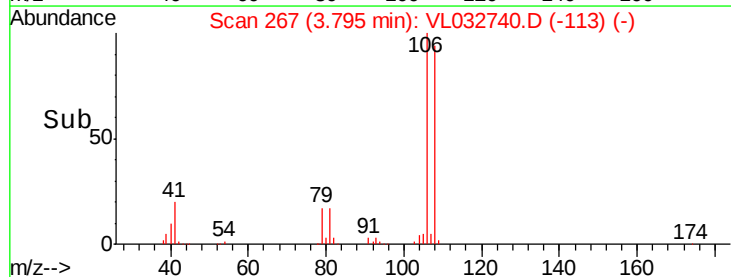
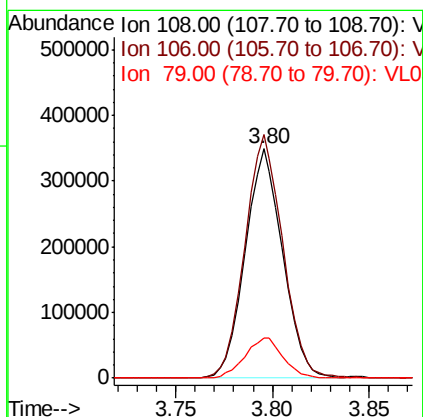
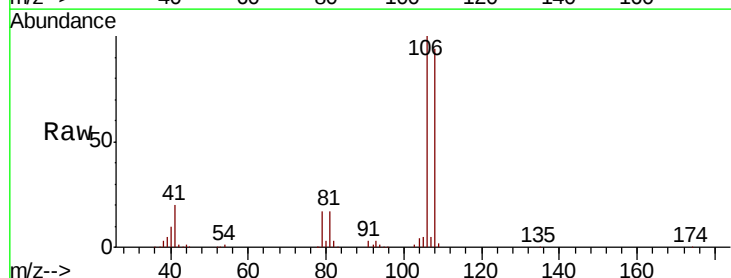
Tgt Ion: 108 Resp: 469945

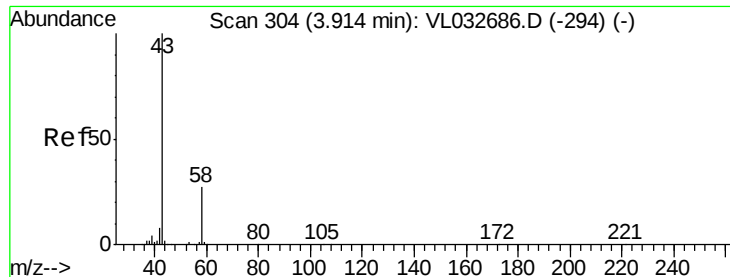
Ion Ratio Lower Upper

108 100

106 108.1 85.0 127.4

79 18.2 13.7 20.5





#15

Acetone

Concen: 8.415 ppbv

RT: 3.91 min Scan# 303

Delta R.T. -0.00 min

Lab File: VL032740.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1058604

Ion Ratio Lower Upper

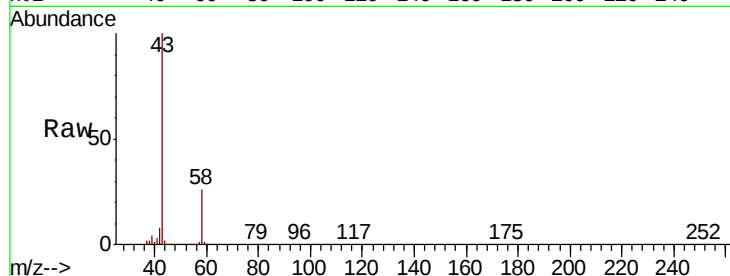
43 100

58 26.2 22.1 33.1

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.91

800000

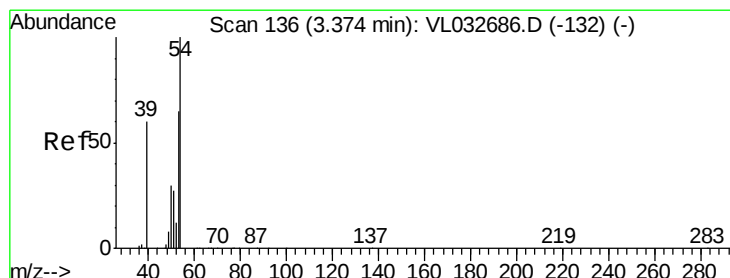
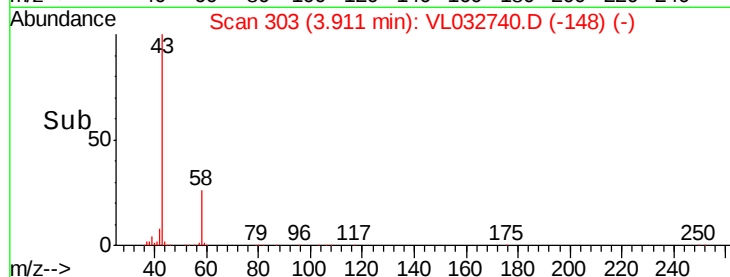
600000

400000

200000

0

Time-->



#16

1,3-Butadiene

Concen: 9.817 ppbv

RT: 3.37 min Scan# 135

Delta R.T. -0.00 min

Lab File: VL032740.D

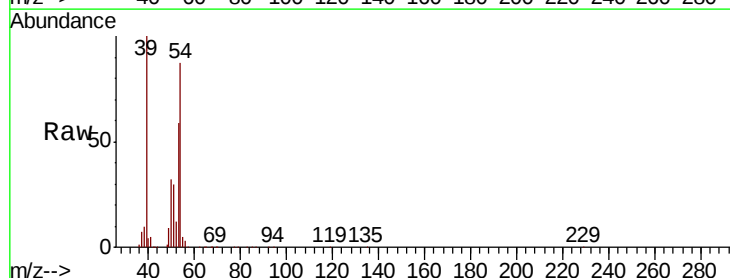
Acq: 8 Nov 2018 9:49

Tgt Ion: 39 Resp: 454300

Ion Ratio Lower Upper

39 100

54 93.7 90.4 135.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.37

400000

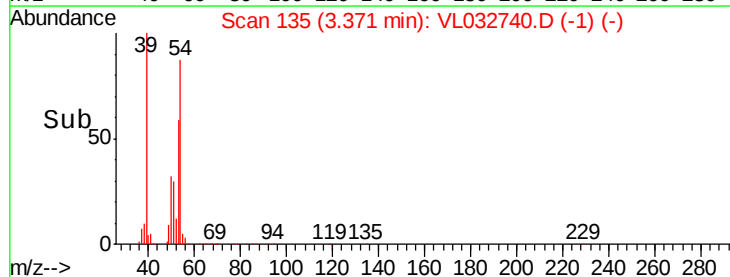
300000

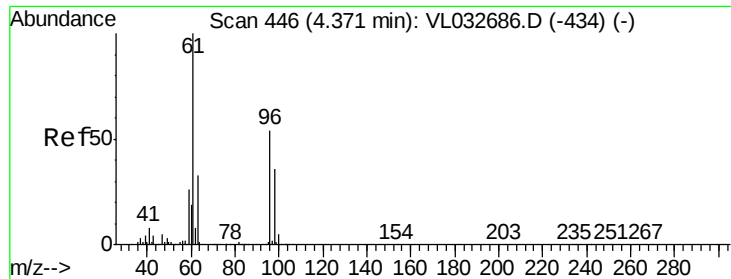
200000

100000

0

Time-->





#17

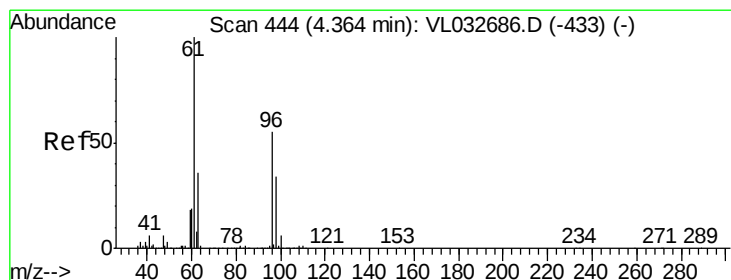
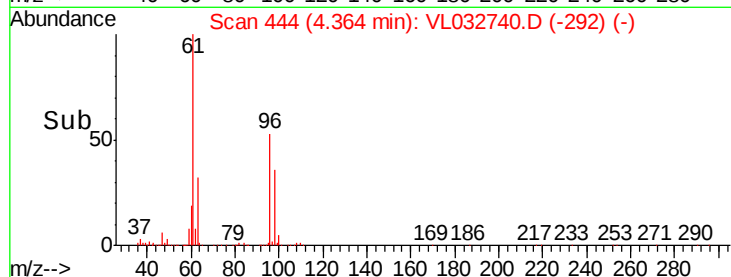
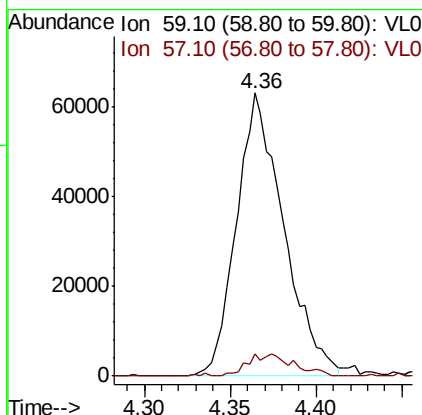
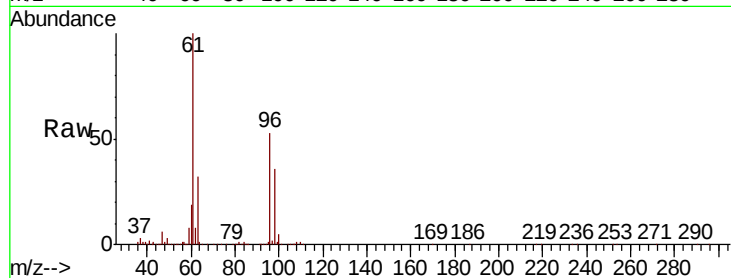
tert-Butyl alcohol
Concen: 3.249 ppbv
RT: 4.36 min Scan# 444
Delta R.T. -0.01 min
Lab File: VL032740.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	7.8	0.0	0.0#

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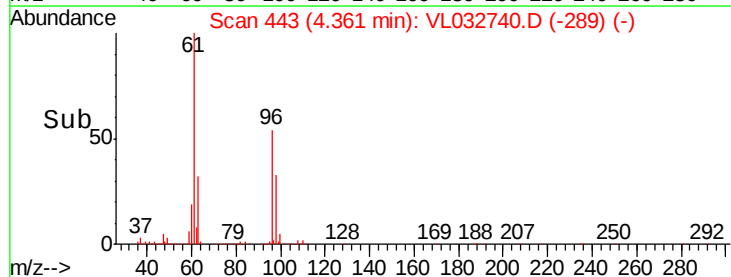
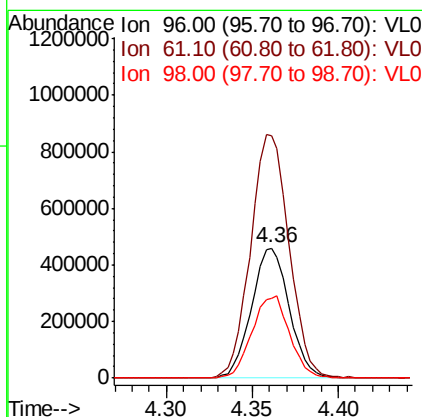
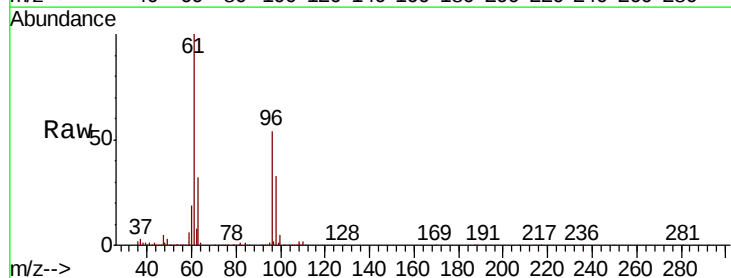
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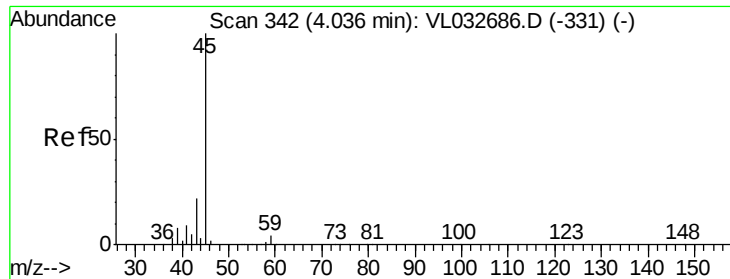


#18

1,1-Dichloroethene
Concen: 10.550 ppbv
RT: 4.36 min Scan# 443
Delta R.T. -0.00 min
Lab File: VL032740.D
Acq: 8 Nov 2018 9:49

Tgt Ion	Ratio	Lower	Upper
96	100		
61	186.4	151.6	227.4
98	61.2	50.6	75.8





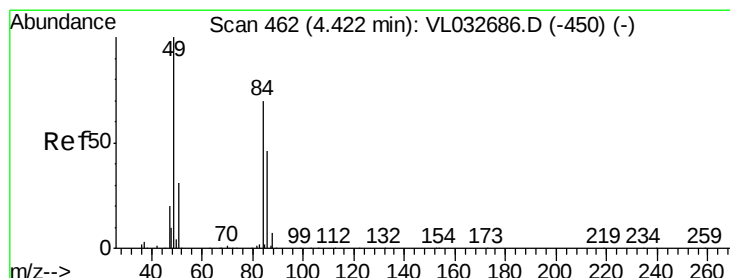
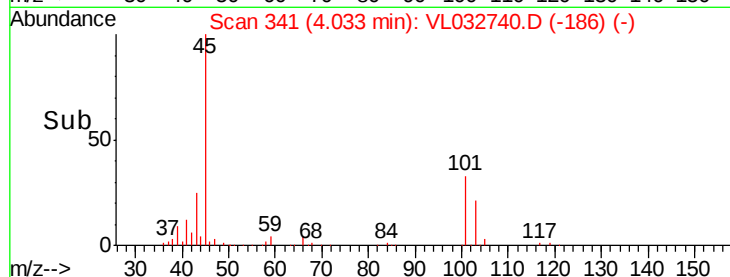
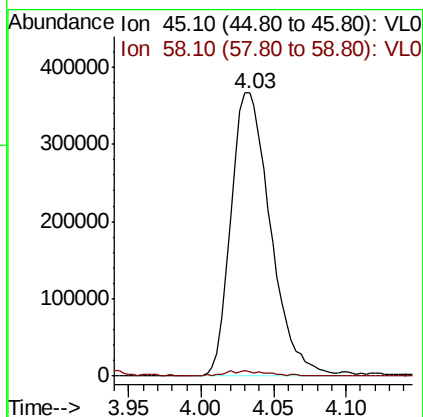
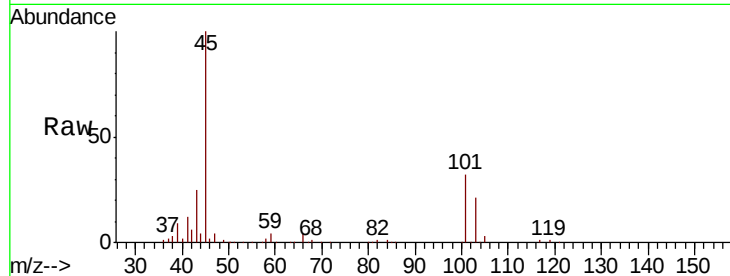
#19
Isopropyl Alcohol
Concen: 7.777 ppbv
RT: 4.03 min Scan# 341
Delta R.T. -0.00 min
Lab File: VL032740.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
45	100		
58	2.1	2.0	3.0

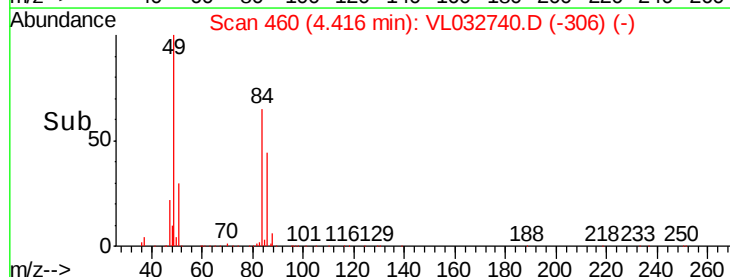
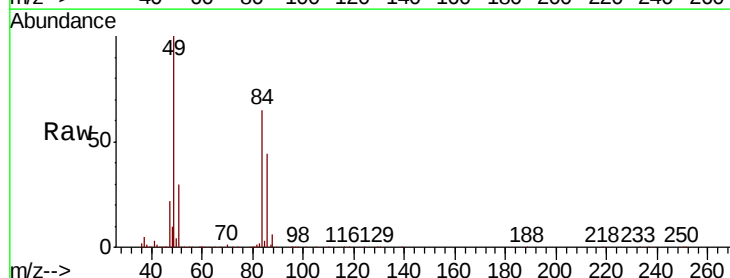
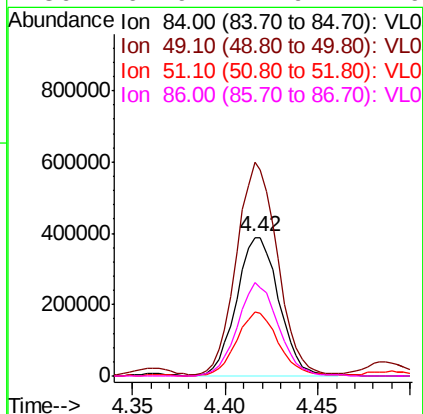
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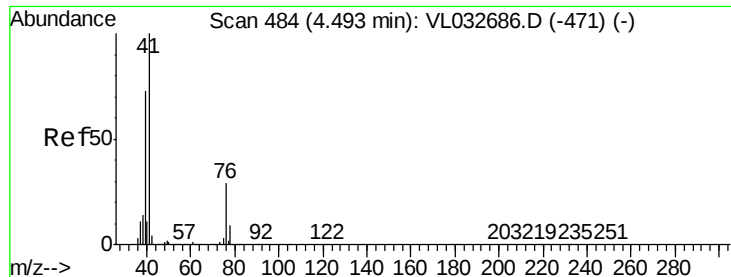
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#20
Methylene Chloride
Concen: 9.617 ppbv
RT: 4.42 min Scan# 460
Delta R.T. -0.00 min
Lab File: VL032740.D
Acq: 8 Nov 2018 9:49

Tgt Ion	Ratio	Lower	Upper
84	100		
49	154.1	113.5	170.3
51	46.5	34.8	52.2
86	67.9	47.9	71.9





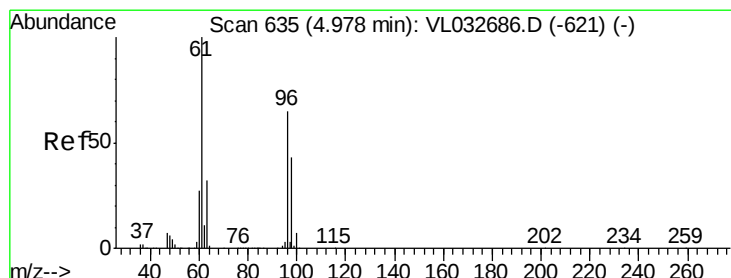
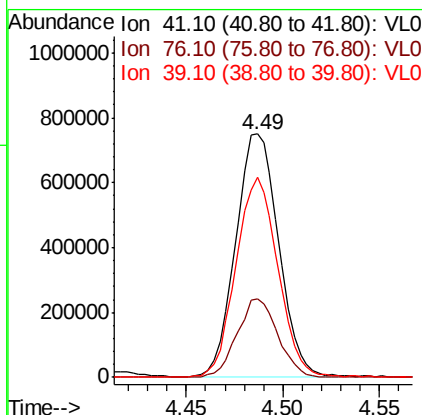
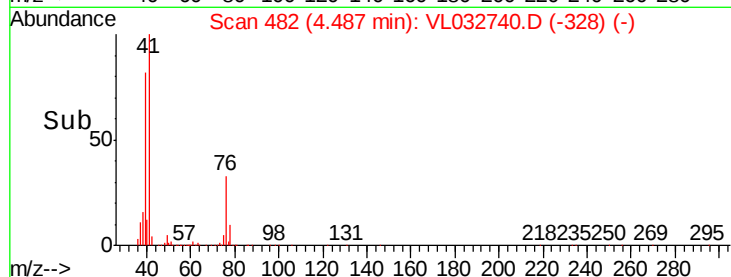
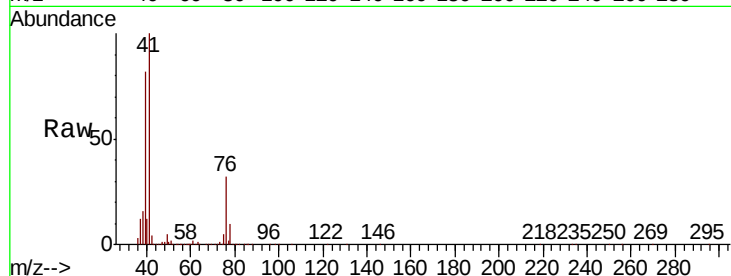
#21
Allvl Chloride
Concen: 11.227 ppbv
RT: 4.49 min Scan# 482
Delta R.T. -0.00 min
Lab File: VL032740.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 41 Resp: 1159573
Ion Ratio Lower Upper
41 100
76 30.7 24.3 36.5
39 80.6 60.3 90.5

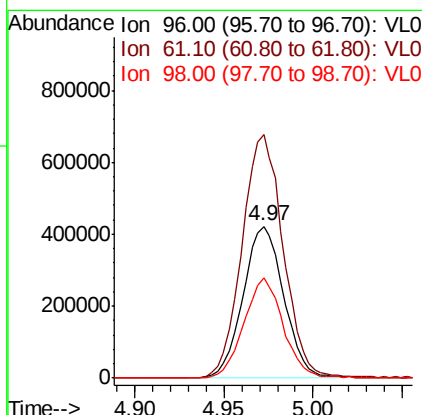
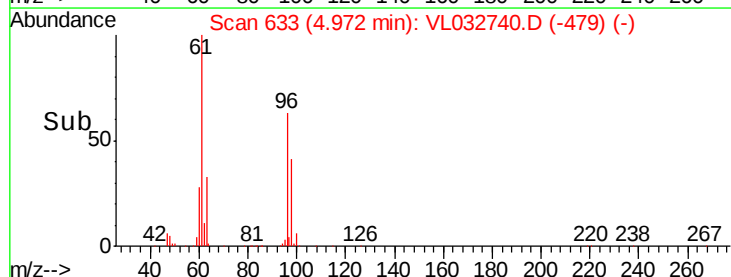
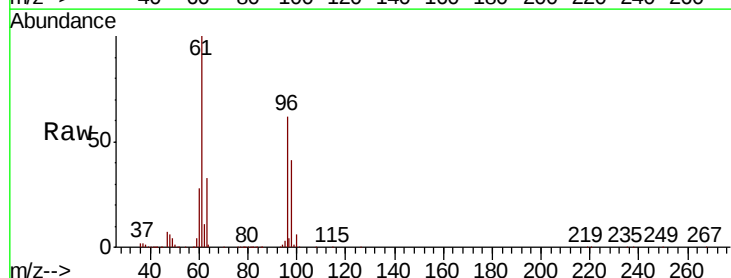
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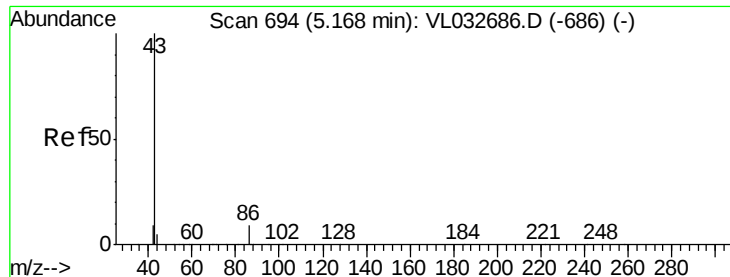
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#22
trans-1,2-Dichloroethene
Concen: 9.865 ppbv
RT: 4.97 min Scan# 633
Delta R.T. -0.00 min
Lab File: VL032740.D
Acq: 8 Nov 2018 9:49

Tgt Ion: 96 Resp: 670247
Ion Ratio Lower Upper
96 100
61 160.2 140.4 210.6
98 65.6 55.0 82.6





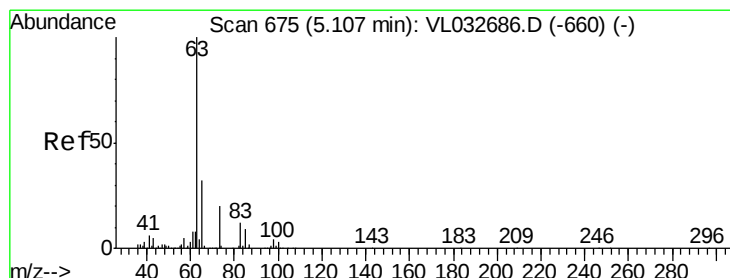
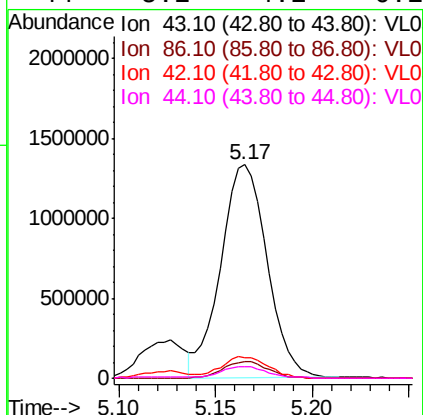
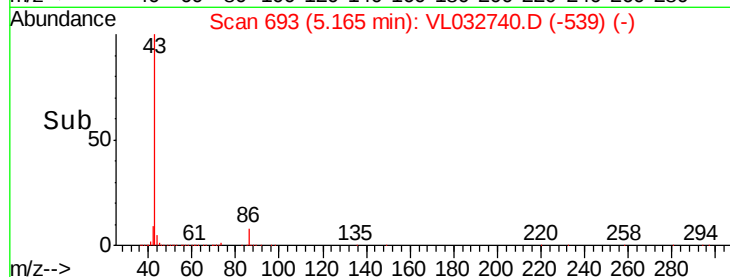
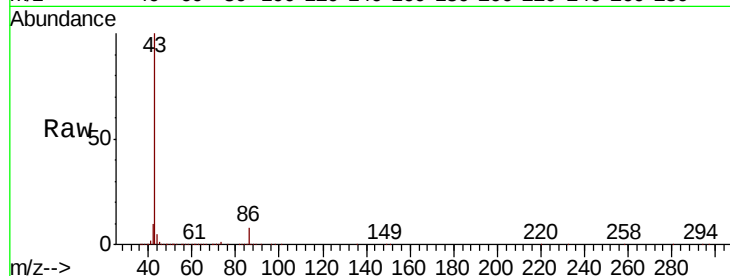
#23
 Vinyl Acetate
 Concen: 9.962 ppbv
 RT: 5.17 min Scan# 693
 Delta R.T. -0.00 min
 Lab File: VL032740.D
 Acq: 8 Nov 2018 9:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	7.6	6.1	9.1	
42	9.4	7.4	11.2	
44	5.2	4.2	6.2	

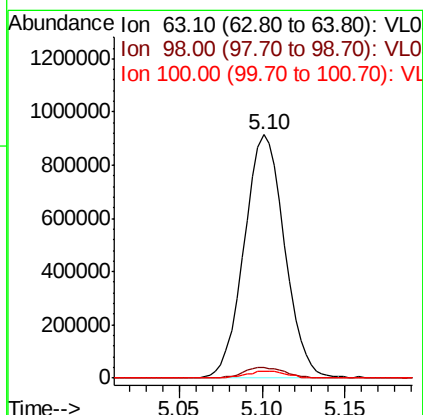
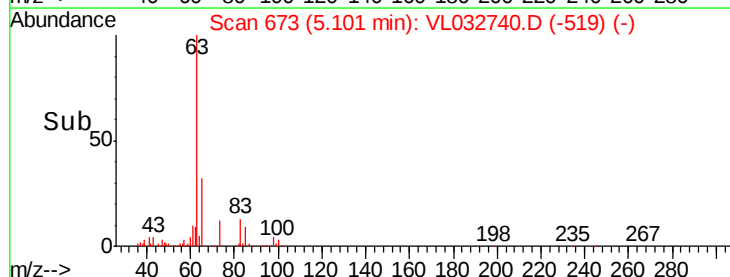
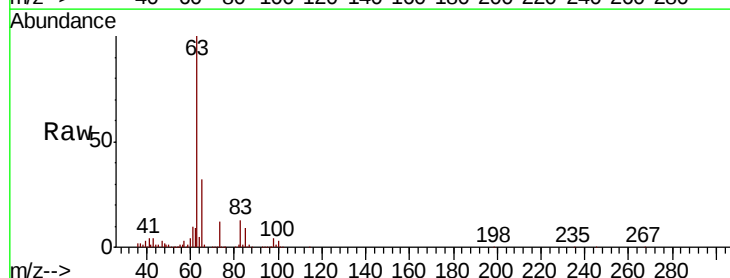
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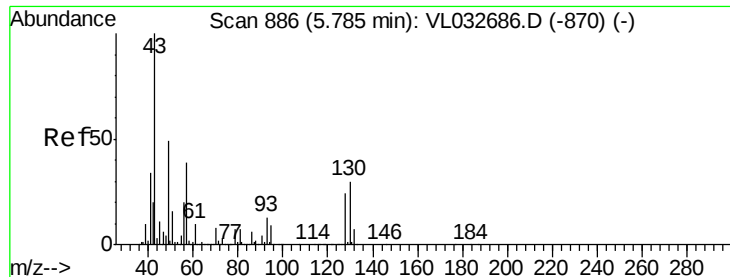
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#24
 1,1-Dichloroethane
 Concen: 8.817 ppbv
 RT: 5.10 min Scan# 673
 Delta R.T. -0.00 min
 Lab File: VL032740.D
 Acq: 8 Nov 2018 9:49

Tgt Ion	Ion	Ratio	Lower	Upper
63	100			
98	4.1	2.1	6.3	
100	2.8	1.2	3.6	





#25

Ethyl Acetate

Concen: 9.739 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.00 min

Lab File: VL032740.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2819932

Ion Ratio Lower Upper

43 100

45 9.9 8.0 12.0

61 9.4 8.0 12.0

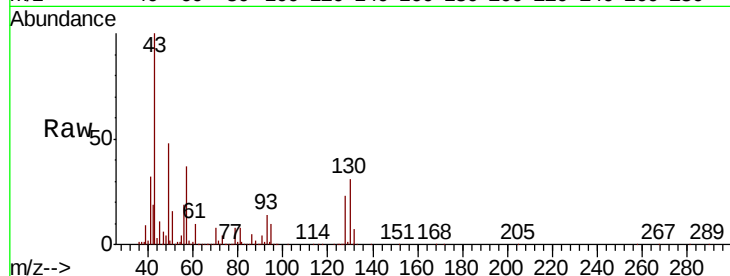
70 7.3 5.9 8.9

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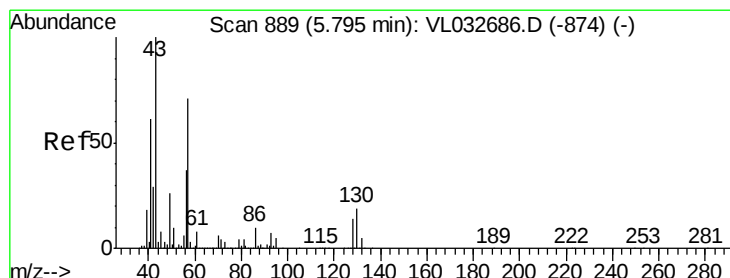
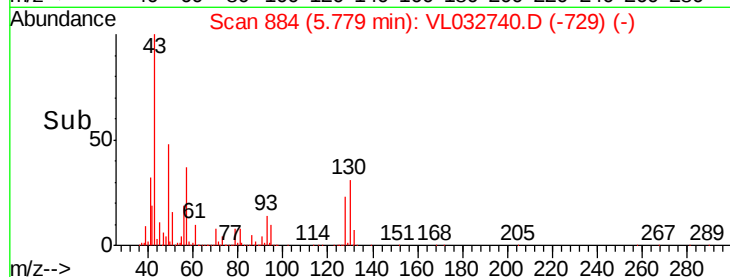
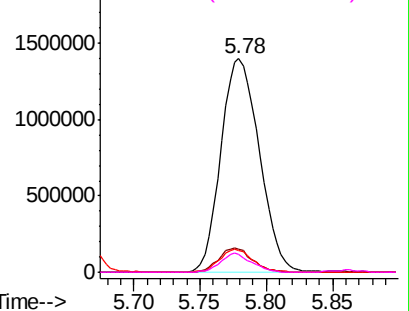


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.206 ppbv

RT: 5.79 min Scan# 887

Delta R.T. -0.00 min

Lab File: VL032740.D

Acq: 8 Nov 2018 9:49

Tgt Ion: 57 Resp: 1261346

Ion Ratio Lower Upper

57 100

41 90.5 67.4 101.0

43 224.6 171.9 257.9

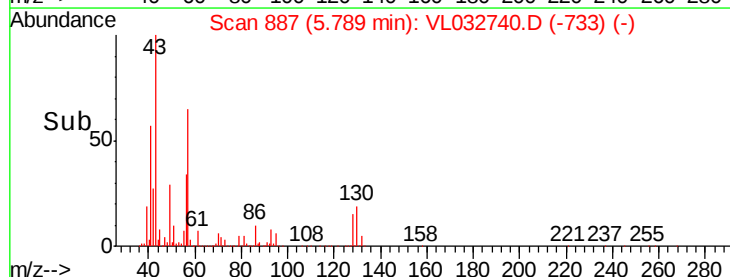
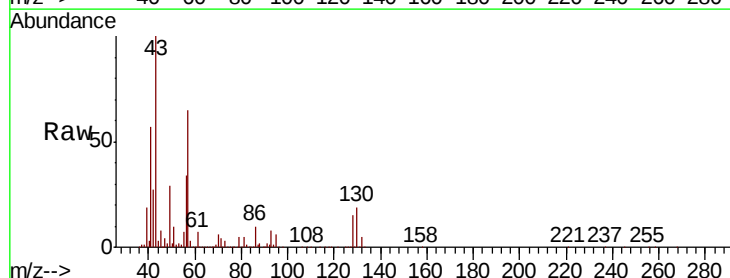
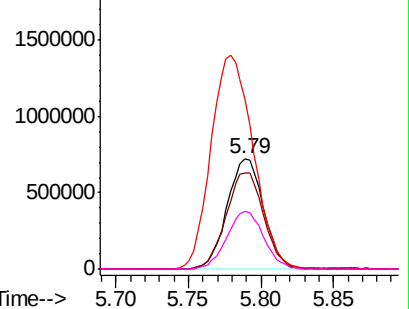
56 53.1 42.6 63.8

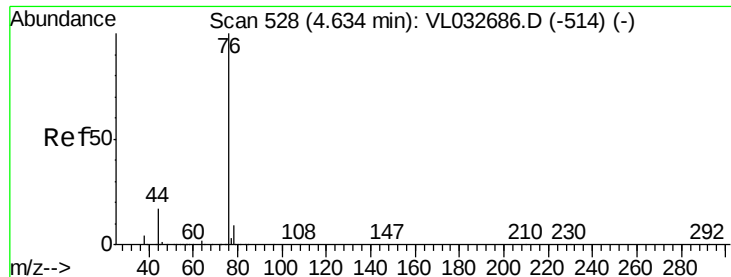
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 10.856 ppbv

RT: 4.63 min Scan# 526

Delta R.T. -0.00 min

Lab File: VL032740.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1804240

Ion Ratio Lower Upper

76 100

44 18.6 13.7 20.5

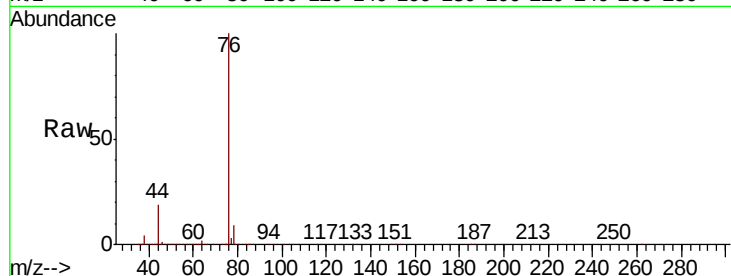
78 9.3 7.4 11.2

Manual Integrations

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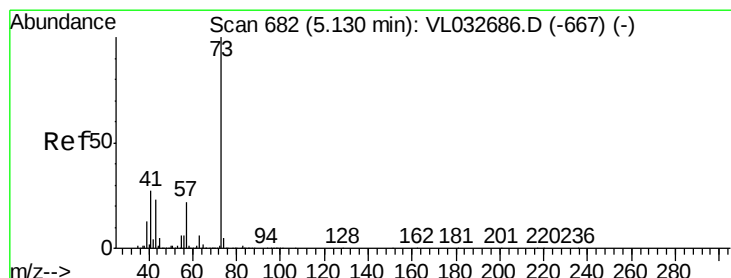
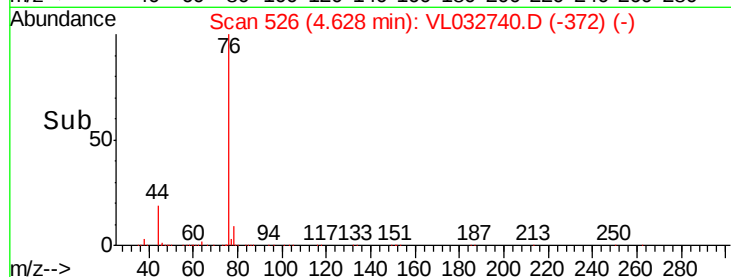
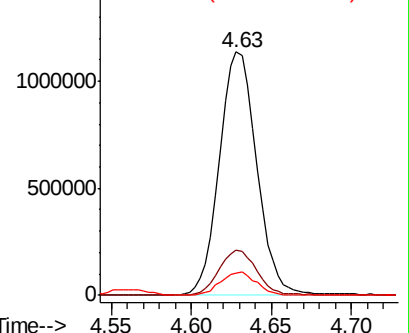
11/12/2018 12:30:25 PM



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 8.348 ppbv

RT: 5.13 min Scan# 681

Delta R.T. -0.00 min

Lab File: VL032740.D

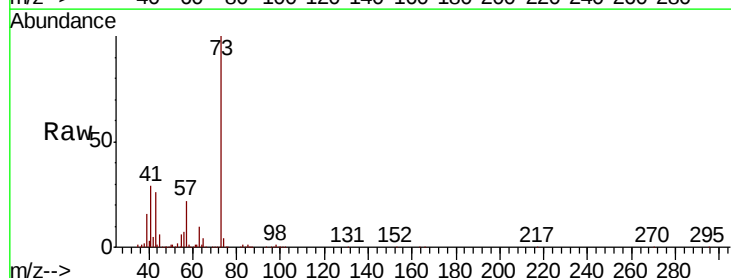
Acq: 8 Nov 2018 9:49

Tgt Ion: 73 Resp: 1643722

Ion Ratio Lower Upper

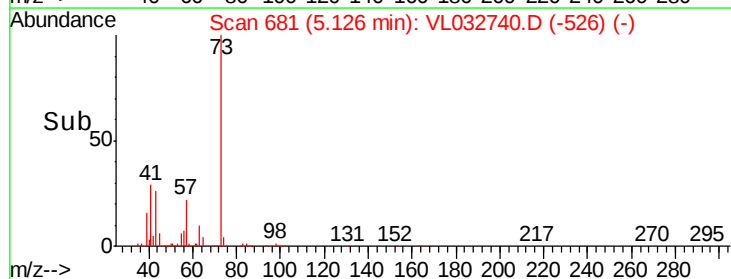
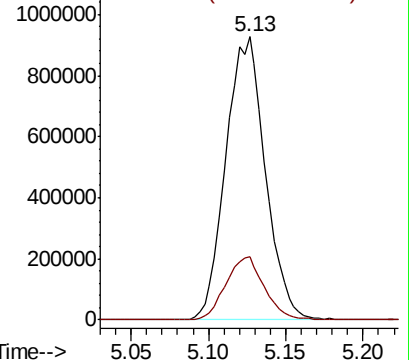
73 100

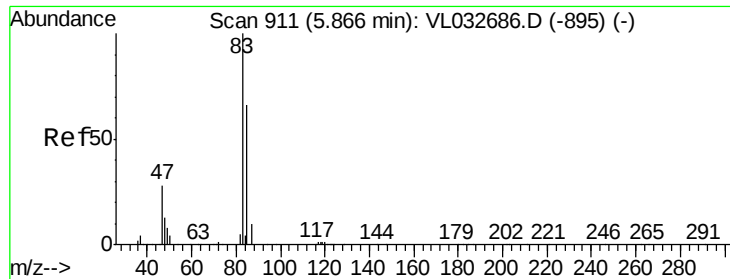
57 21.9 18.0 27.0



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





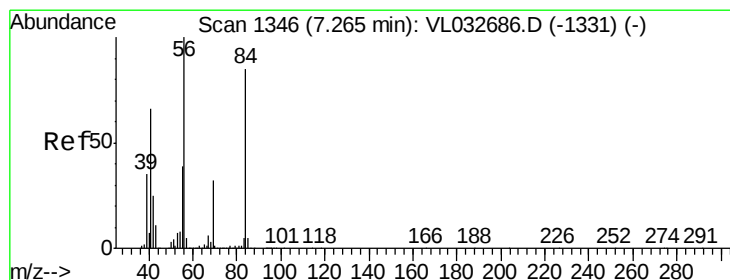
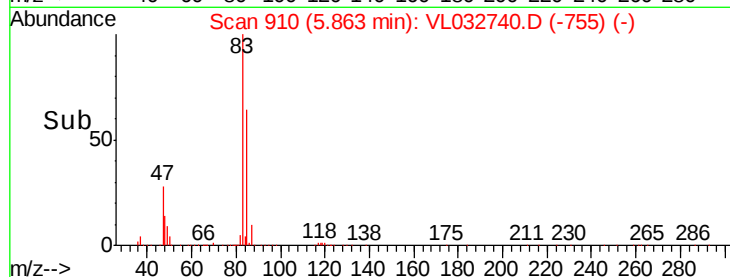
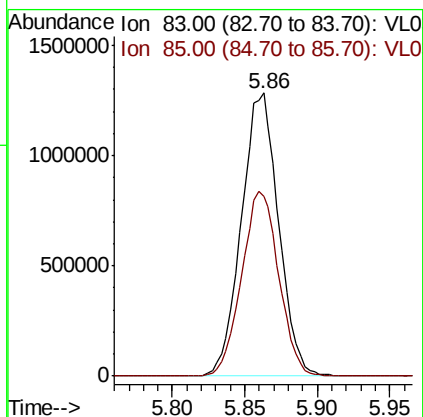
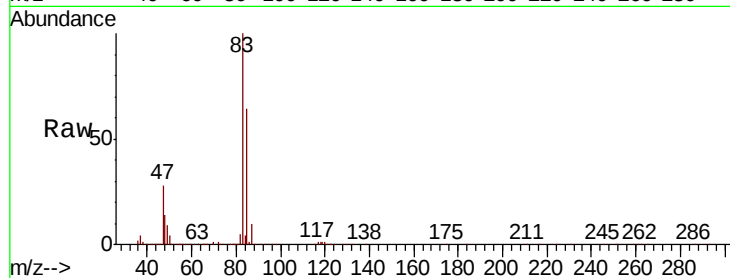
#29
Chloroform
Concen: 10.454 ppbv
RT: 5.86 min Scan# 910
Delta R.T. -0.00 min
Lab File: VL032740.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 2287859
Ion Ratio Lower Upper
83 100
85 63.5 53.0 79.6

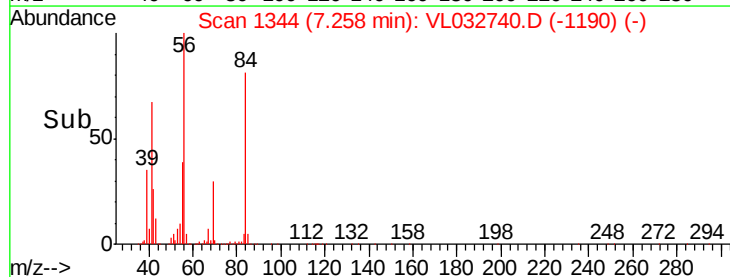
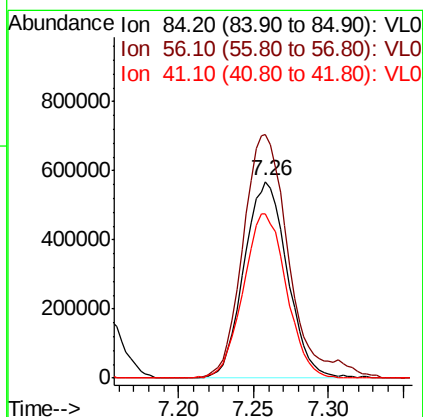
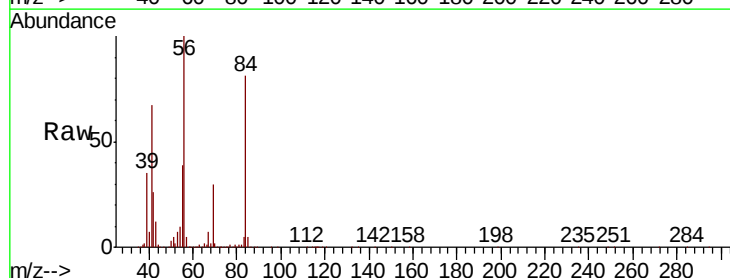
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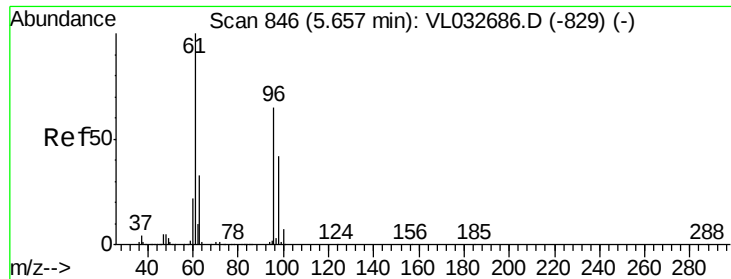
MMDadoda
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#30
Cyclohexane
Concen: 10.479 ppbv
RT: 7.26 min Scan# 1344
Delta R.T. -0.00 min
Lab File: VL032740.D
Acq: 8 Nov 2018 9:49

Tgt Ion: 84 Resp: 1136396
Ion Ratio Lower Upper
84 100
56 132.9 108.3 162.5
41 84.3 64.8 97.2





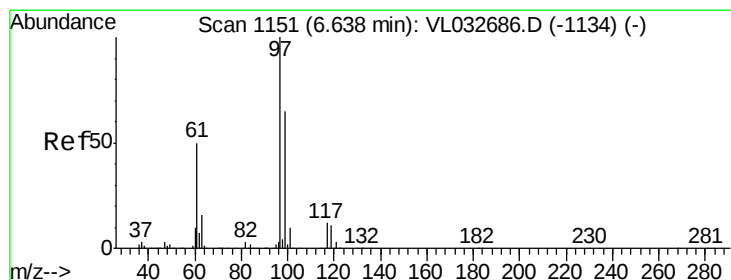
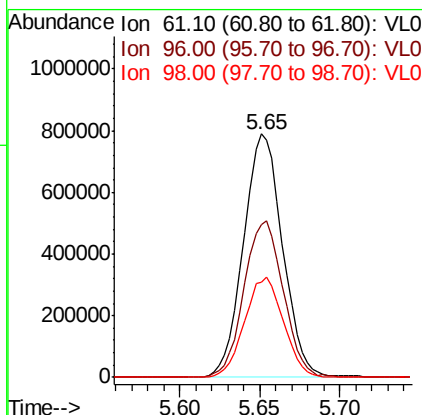
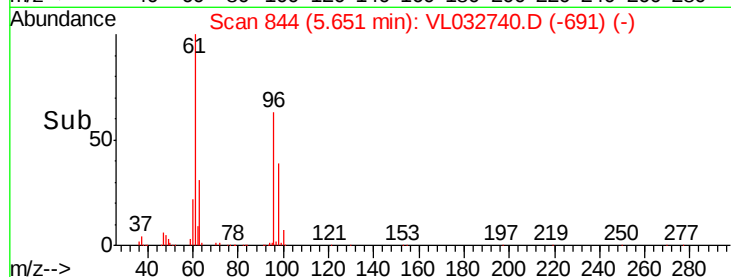
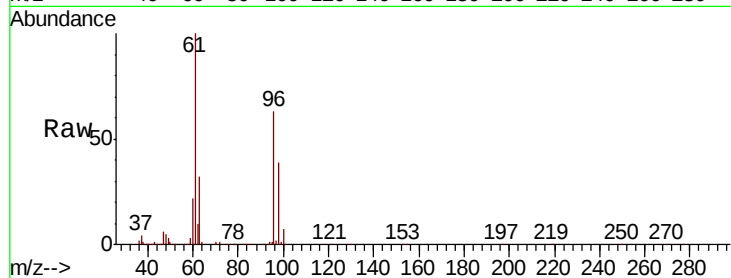
#31
 cis-1,2-Dichloroethene
 Concen: 10.343 ppbv
 RT: 5.65 min Scan# 844
 Delta R.T. -0.01 min
 Lab File: VL032740.D
 Acq: 8 Nov 2018 9:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	62.5	51.8	77.6
98	38.8	33.8	50.6

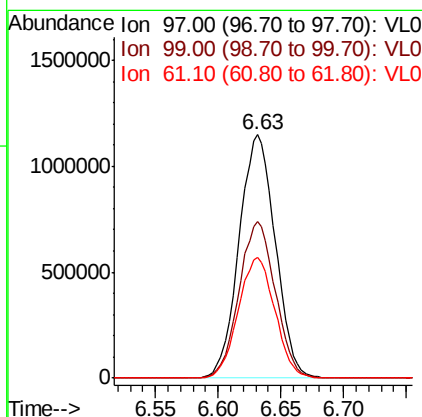
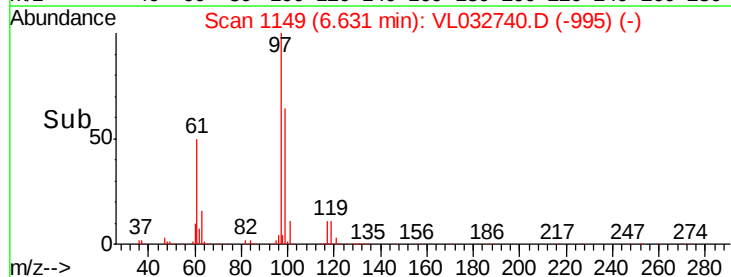
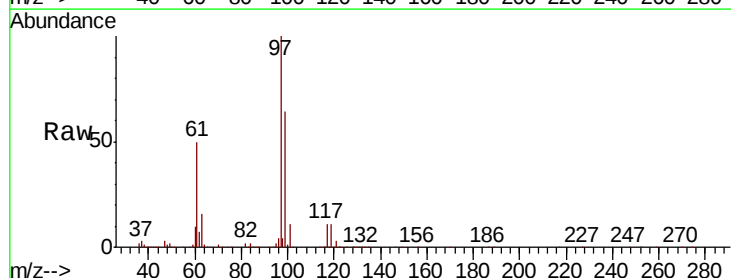
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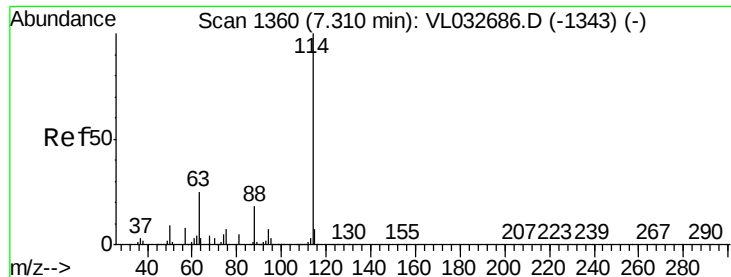
MMDadoda
 11/12/2018 12:30:25 PM



#32
 1,1,1-Trichloroethane
 Concen: 10.385 ppbv
 RT: 6.63 min Scan# 1149
 Delta R.T. -0.00 min
 Lab File: VL032740.D
 Acq: 8 Nov 2018 9:49

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	52.0	78.0
61	50.0	40.7	61.1





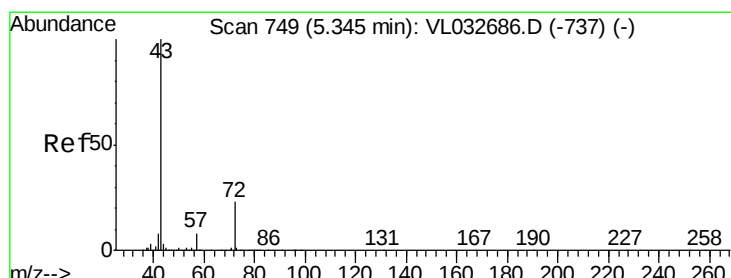
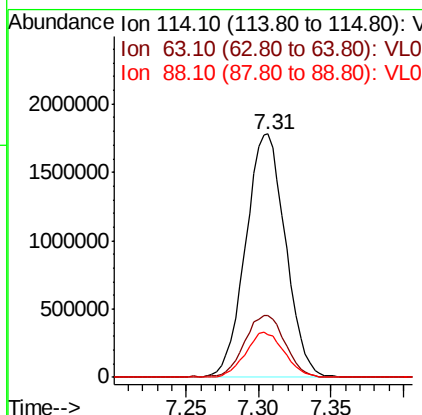
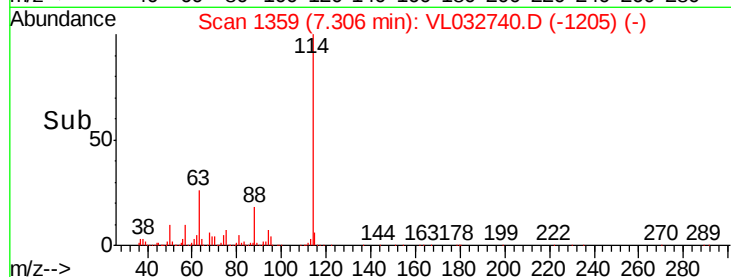
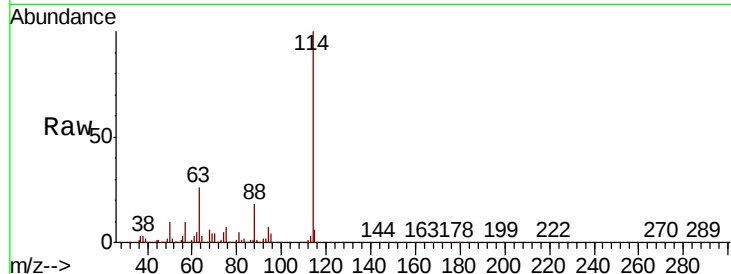
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.31 min Scan# 1359
 Delta R.T. -0.00 min
 Lab File: VL032740.D
 Acq: 8 Nov 2018 9:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:114 Resp: 3400844
 Ion Ratio Lower Upper
 114 100
 63 26.4 21.7 32.5
 88 18.1 14.9 22.3

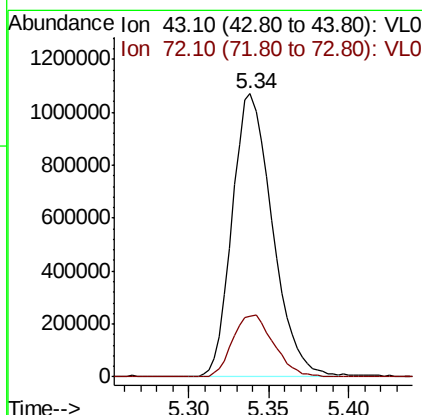
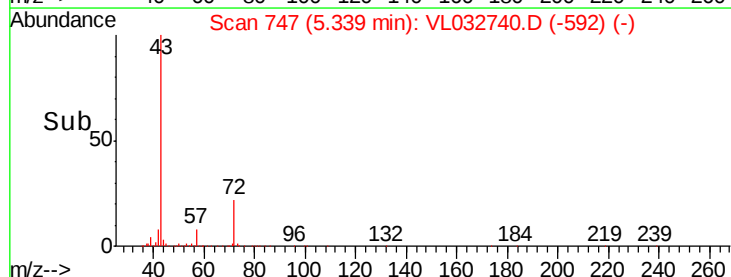
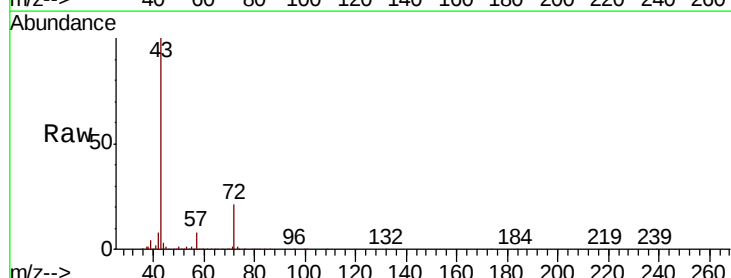
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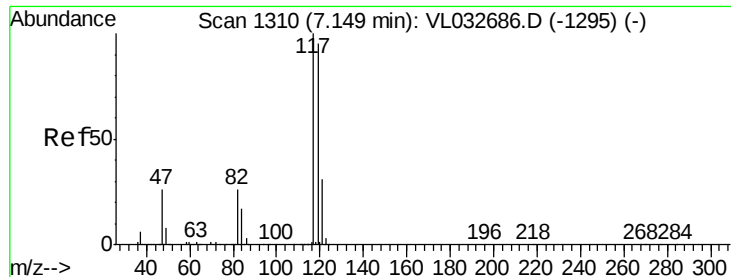
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 11/12/2018 12:30:25 PM



#34
 2-Butanone
 Concen: 10.014 ppbv
 RT: 5.34 min Scan# 747
 Delta R.T. -0.00 min
 Lab File: VL032740.D
 Acq: 8 Nov 2018 9:49

Tgt Ion: 43 Resp: 1825699
 Ion Ratio Lower Upper
 43 100
 72 22.7 18.6 27.8





#35

Carbon Tetrachloride

Concen: 10.468 ppbv

RT: 7.15 min Scan# 1309

Delta R.T. -0.00 min

Lab File: VL032740.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 2526718

Ion Ratio Lower Upper

117 100

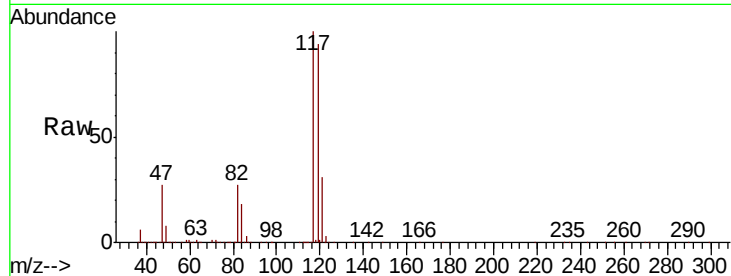
119 94.5 75.7 113.5

121 30.7 24.7 37.1

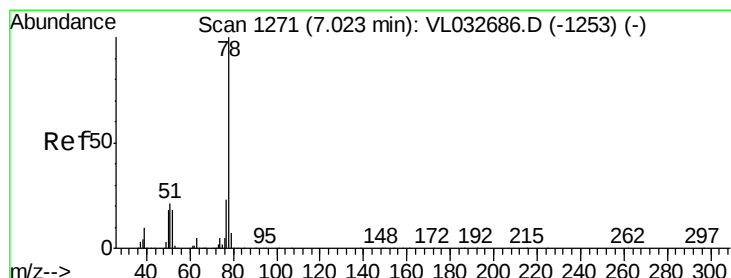
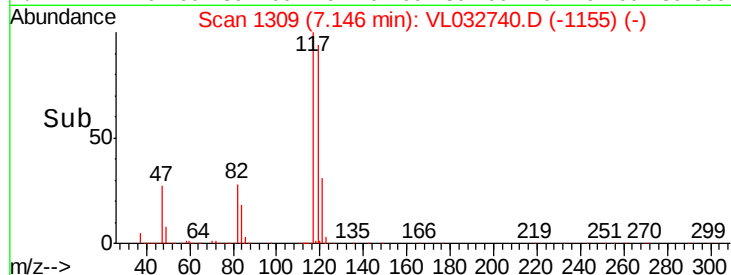
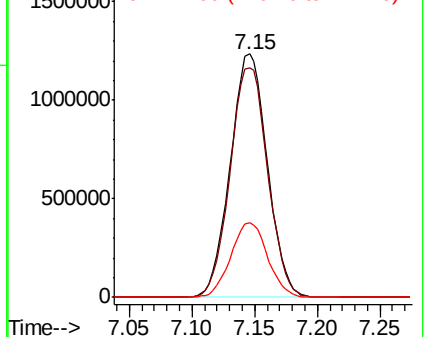
Manual Integrations
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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.870 ppbv

RT: 7.02 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VL032740.D

Acq: 8 Nov 2018 9:49

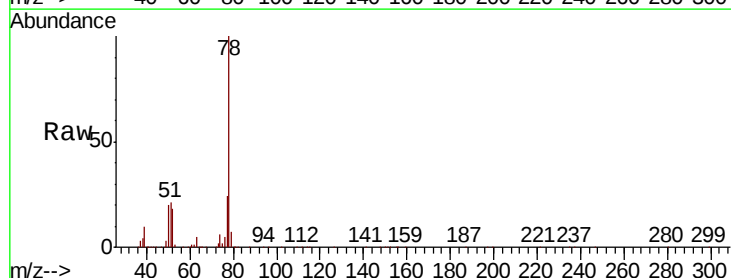
Tgt Ion: 78 Resp: 2725750

Ion Ratio Lower Upper

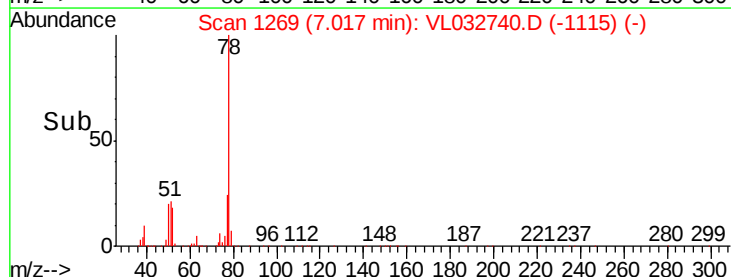
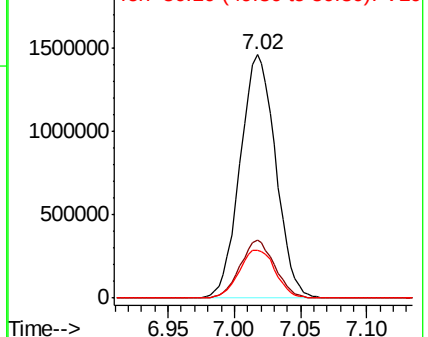
78 100

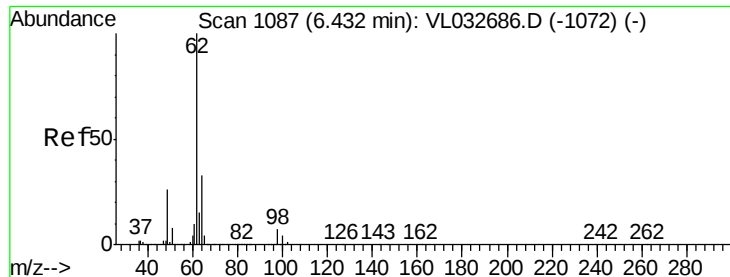
77 23.7 18.1 27.1

50 19.5 15.1 22.7



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





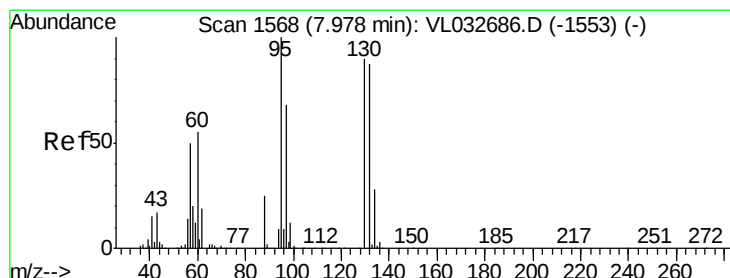
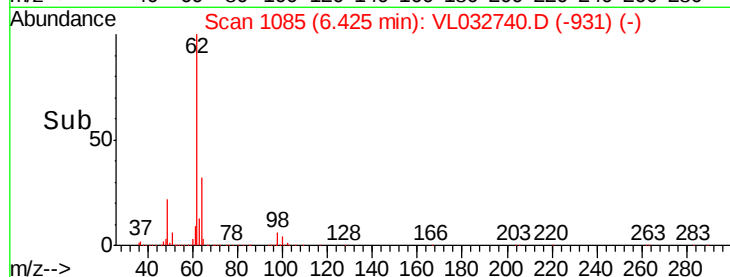
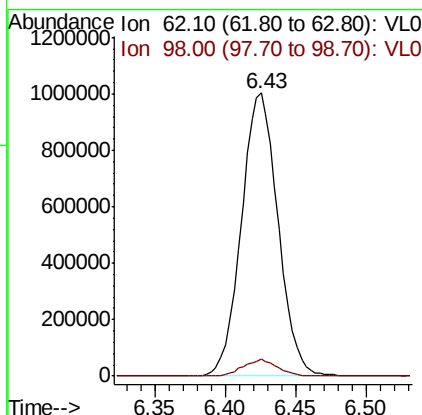
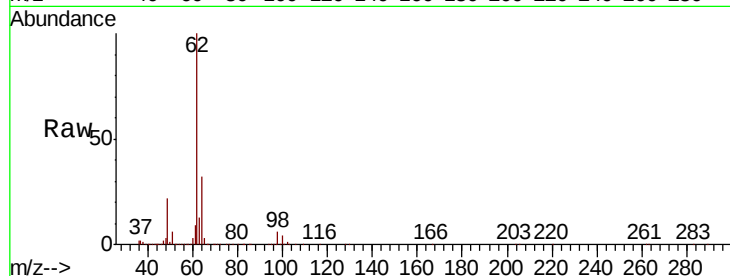
#37
 1,2-Dichloroethane
 Concen: 10.756 ppbv
 RT: 6.43 min Scan# 1085
 Delta R.T. -0.00 min
 Lab File: VL032740.D
 Acq: 8 Nov 2018 9:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.5	4.4	6.6

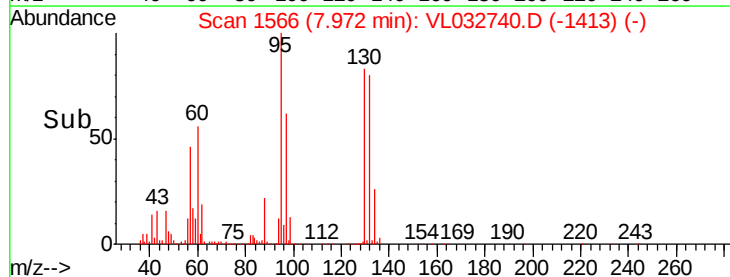
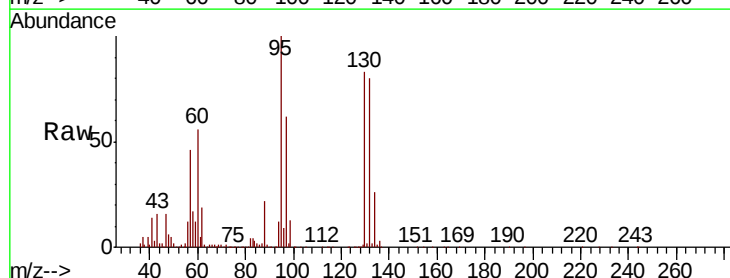
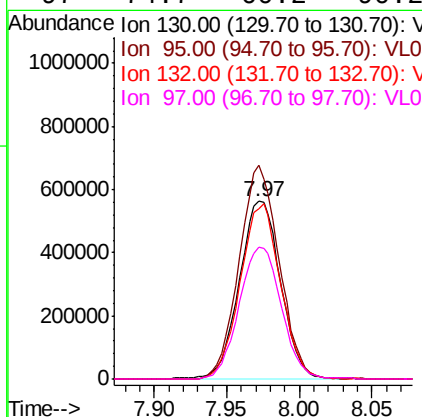
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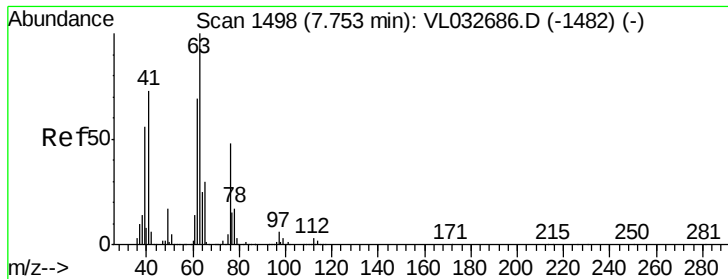
MMDadoda
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#38
 Trichloroethene
 Concen: 10.801 ppbv
 RT: 7.97 min Scan# 1566
 Delta R.T. -0.01 min
 Lab File: VL032740.D
 Acq: 8 Nov 2018 9:49

Tgt Ion	Ratio	Lower	Upper
130	100		
95	120.6	93.4	140.0
132	96.0	76.5	114.7
97	74.7	60.2	90.2





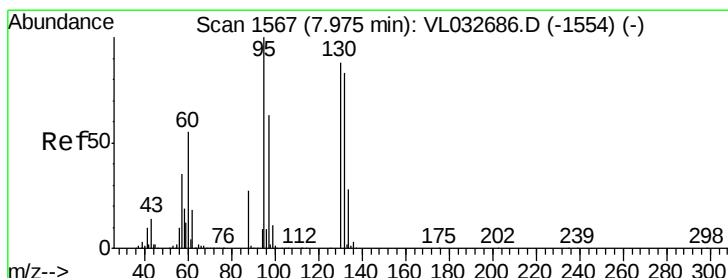
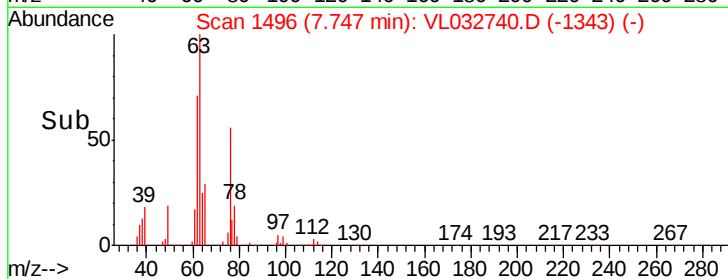
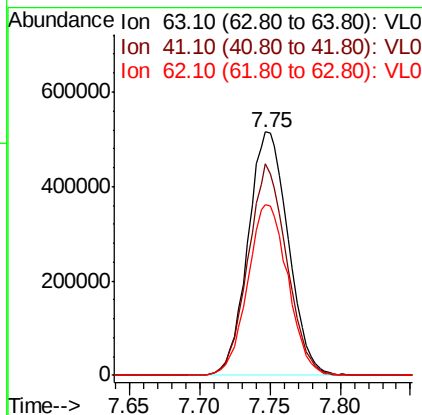
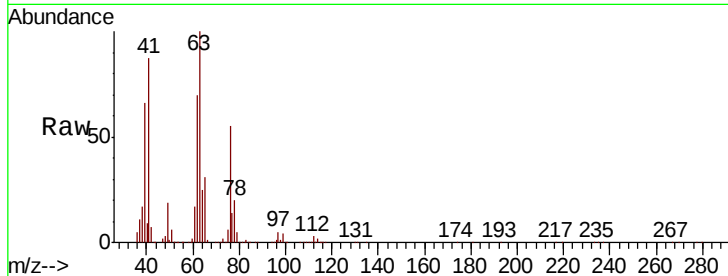
#39
 1,2-Dichloropropane
 Concen: 9.641 ppbv
 RT: 7.75 min Scan# 1496
 Delta R.T. -0.01 min
 Lab File: VL032740.D
 Acq: 8 Nov 2018 9:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	87.0	56.2	84.4#
62	70.3	54.4	81.6

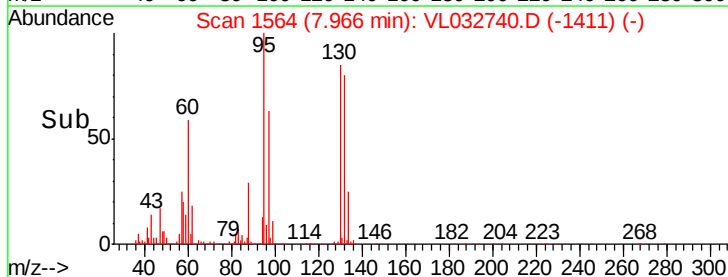
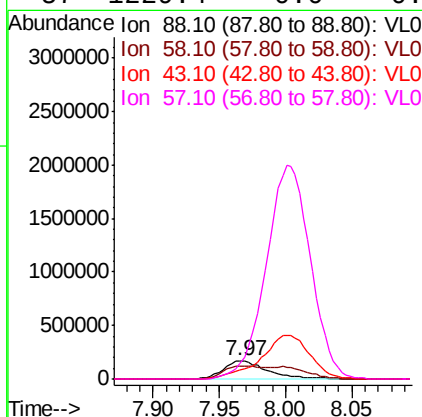
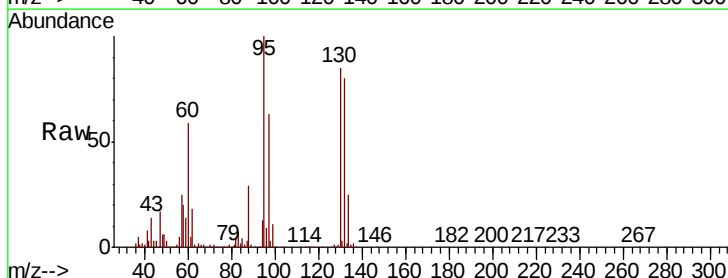
Manual Integrations
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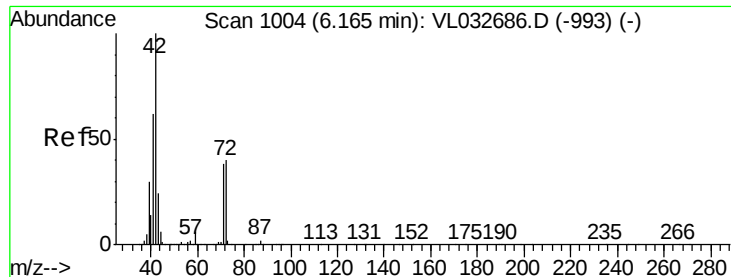
MMDadoda
 11/12/2018 12:30:25 PM



#40
 1,4-Dioxane
 Concen: 10.458 ppbv
 RT: 7.97 min Scan# 1564
 Delta R.T. -0.01 min
 Lab File: VL032740.D
 Acq: 8 Nov 2018 9:49

Tgt Ion	Ratio	Lower	Upper
88	100		
58	128.7	104.0	156.0
43	277.1	0.0	0.0#
57	1229.4	0.0	0.0#





#41

Tetrahydrofuran

Concen: 10.619 ppbv

RT: 6.16 min Scan# 1002

Delta R.T. -0.00 min

Lab File: VL032740.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_L

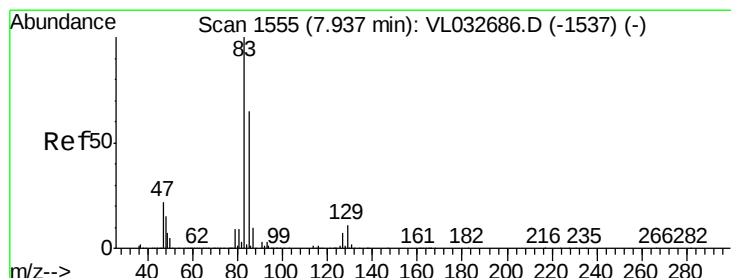
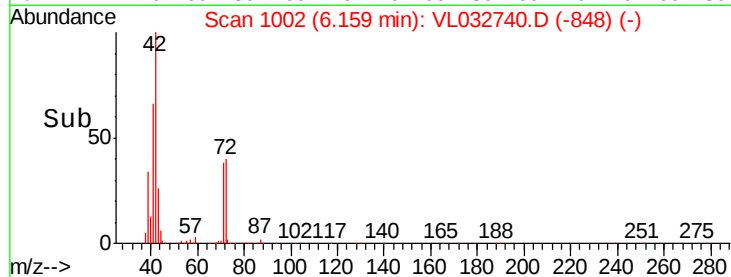
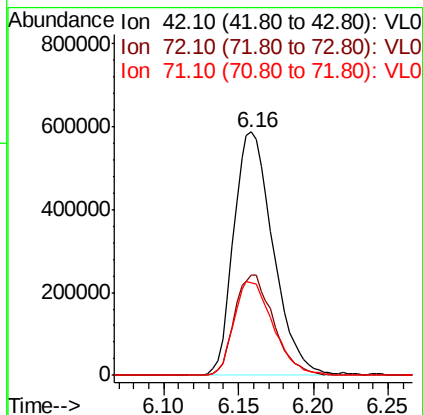
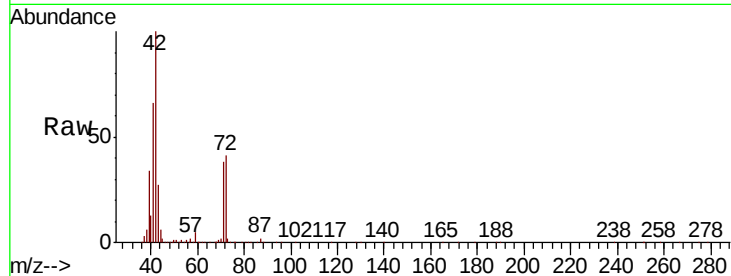
ClientSampleId :

VSTDCCC010EC

Tot Ion:	42	Resp:	1078773
Ion	Ratio	Lower	Upper
42	100		
72	41.0	32.4	48.6
71	38.8	31.3	46.9

Manual Integrations
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#42

Bromodichloromethane

Concen: 10.720 ppbv

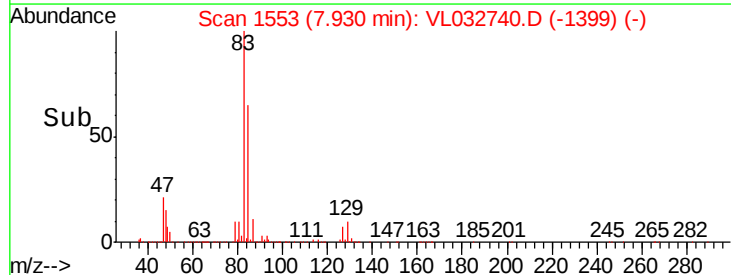
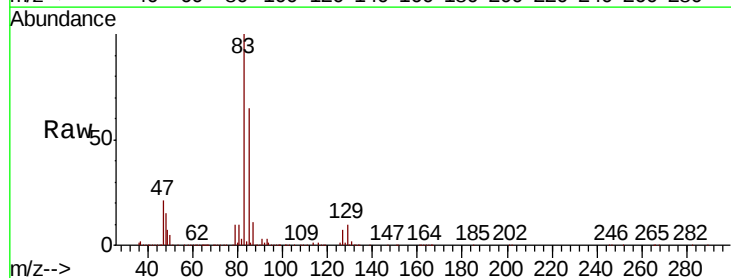
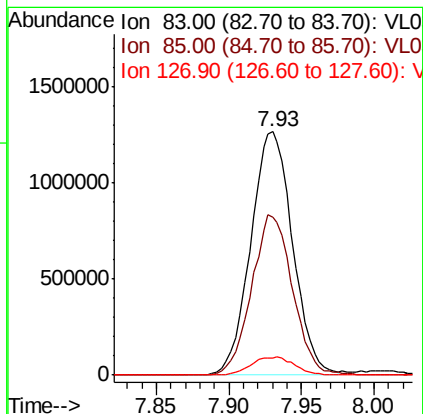
RT: 7.93 min Scan# 1553

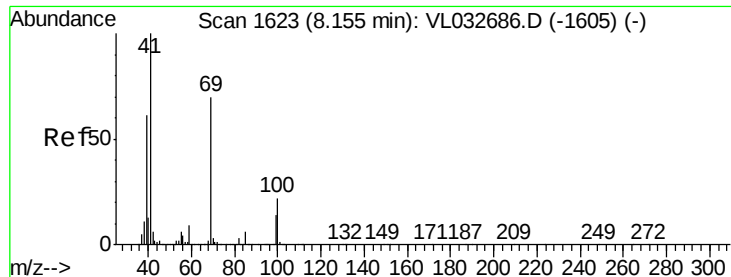
Delta R.T. -0.00 min

Lab File: VL032740.D

Acq: 8 Nov 2018 9:49

Tgt Ion:	83	Resp:	2544197
Ion	Ratio	Lower	Upper
83	100		
85	64.6	52.4	78.6
127	7.3	6.1	9.1





#43

Methyl Methacrylate

Concen: 11.085 ppbv

RT: 8.15 min Scan# 1620

Delta R.T. -0.01 min

Lab File: VL032740.D

Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_L

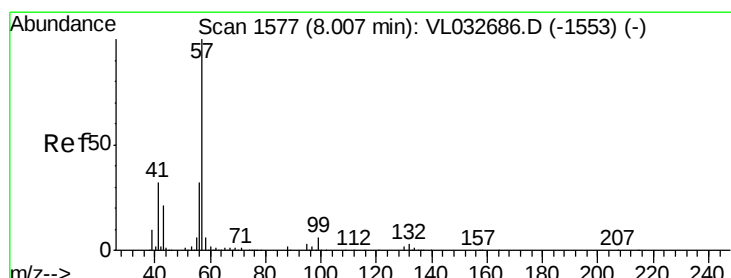
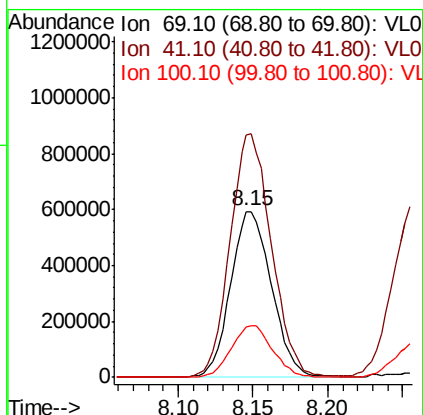
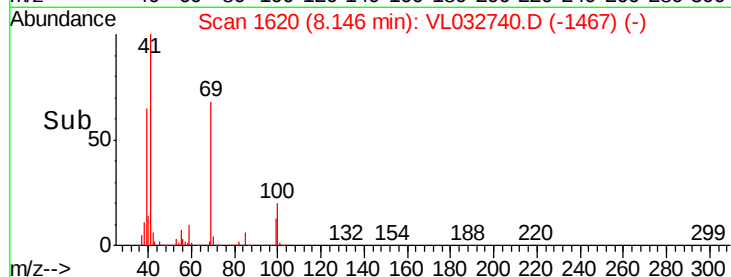
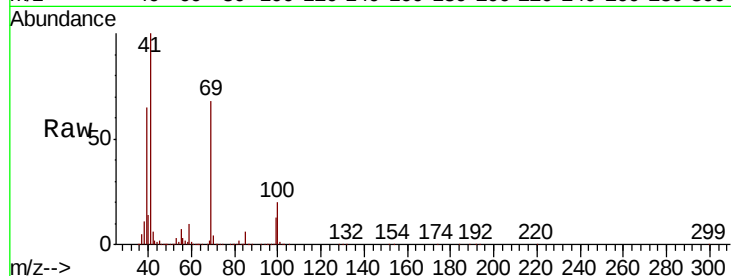
ClientSampleId :
VSTDCCC010EC

Tot Ion: 69 Resp: 1121927

Ion	Ratio	Lower	Upper
69	100		
41	148.7	113.2	169.8
100	31.7	24.4	36.6

Manual Integrations
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#44

2,2,4-Trimethylpentane

Concen: 9.927 ppbv

RT: 8.00 min Scan# 1575

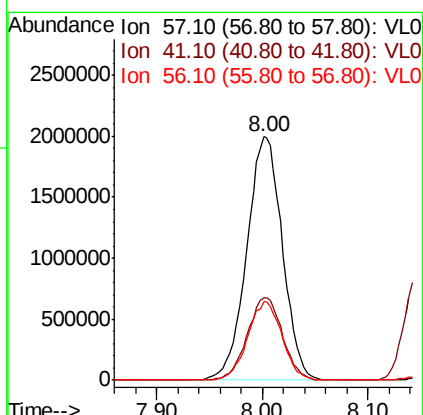
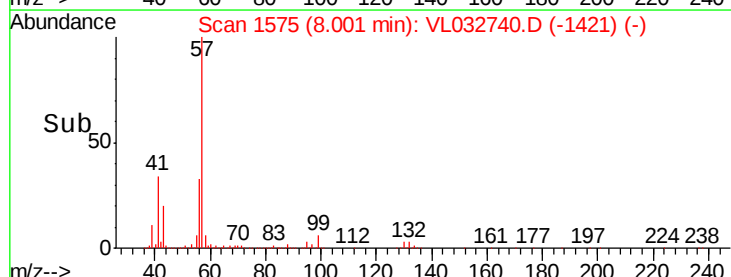
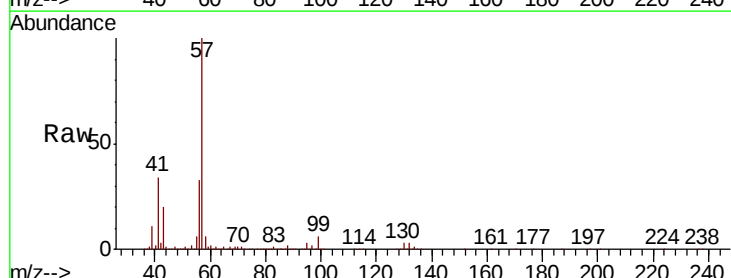
Delta R.T. -0.00 min

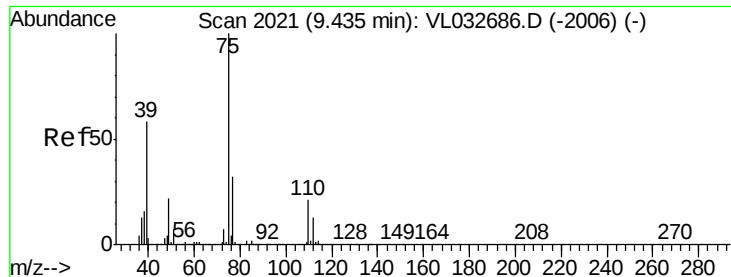
Lab File: VL032740.D

Acq: 8 Nov 2018 9:49

Tgt Ion: 57 Resp: 4680229

Ion	Ratio	Lower	Upper
57	100		
41	33.6	24.7	37.1
56	31.2	25.0	37.4





#45

t-1,3-Dichloropropene

Concen: 11.681 ppbv

RT: 9.43 min Scan# 2019

Delta R.T. -0.00 min

Lab File: VL032740.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 75 Resp: 1582576

Ion Ratio Lower Upper

75 100

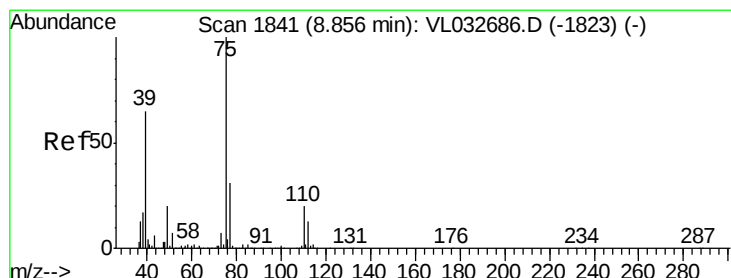
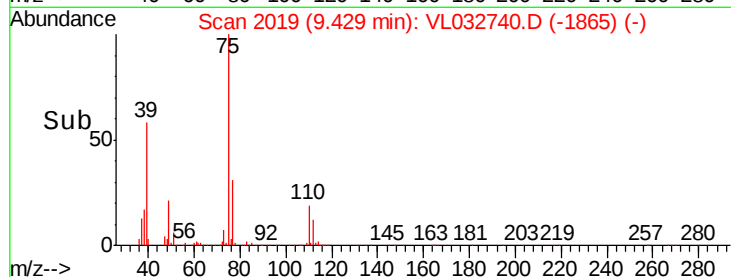
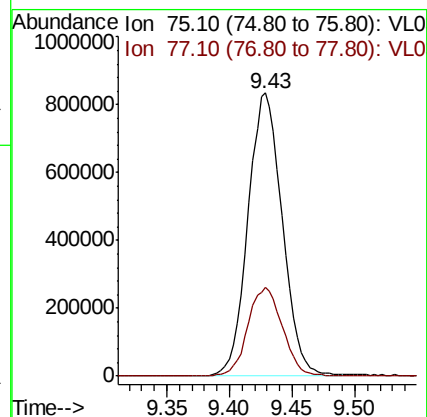
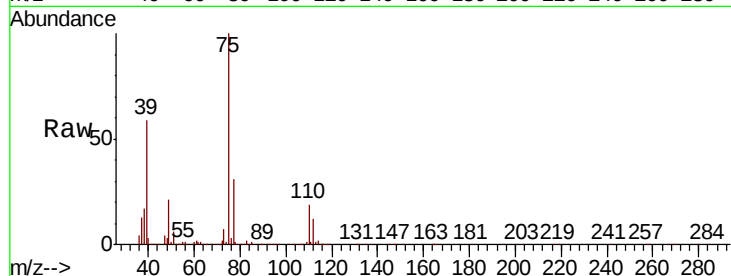
77 31.4 25.3 37.9

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#46

cis-1,3-Dichloropropene

Concen: 12.147 ppbv

RT: 8.85 min Scan# 1838

Delta R.T. -0.01 min

Lab File: VL032740.D

Acq: 8 Nov 2018 9:49

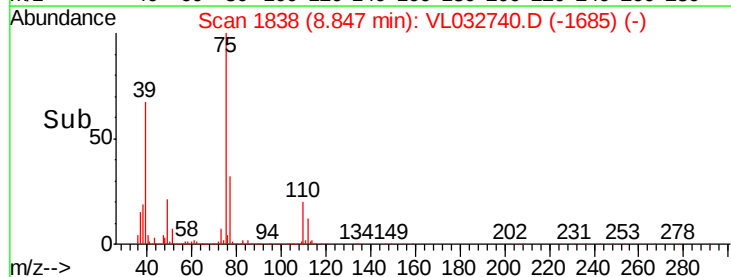
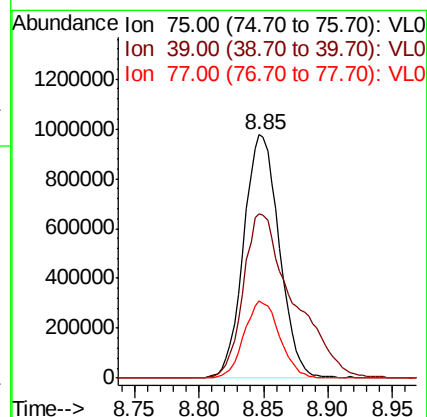
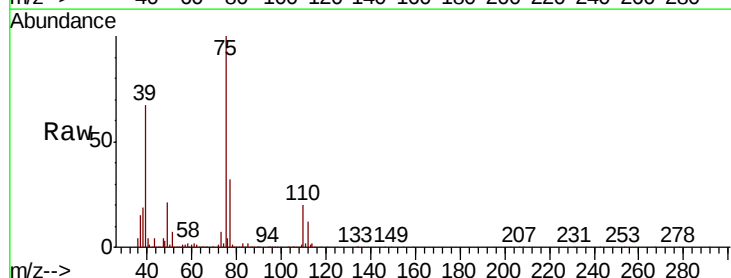
Tgt Ion: 75 Resp: 1880258

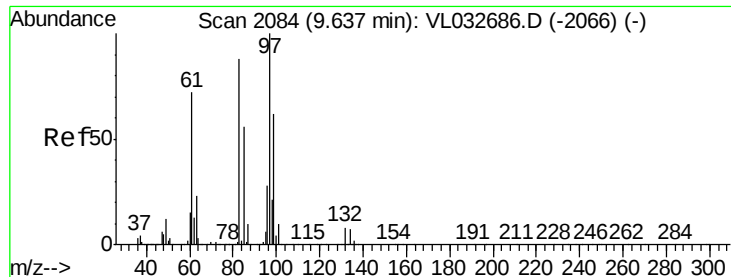
Ion Ratio Lower Upper

75 100

39 67.3 50.9 76.3

77 31.9 25.8 38.6





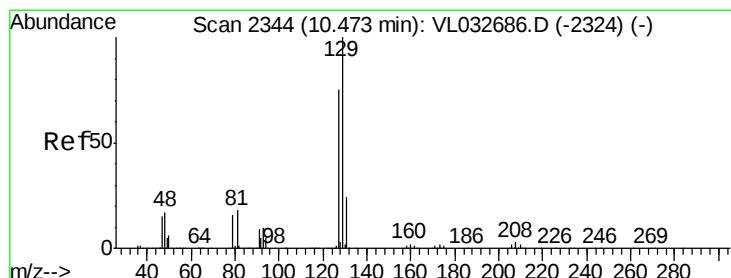
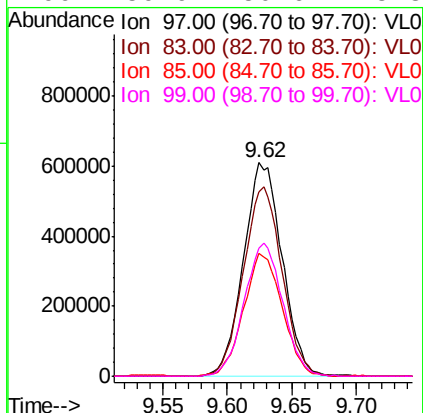
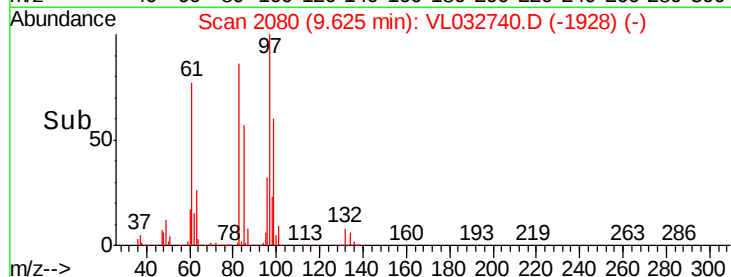
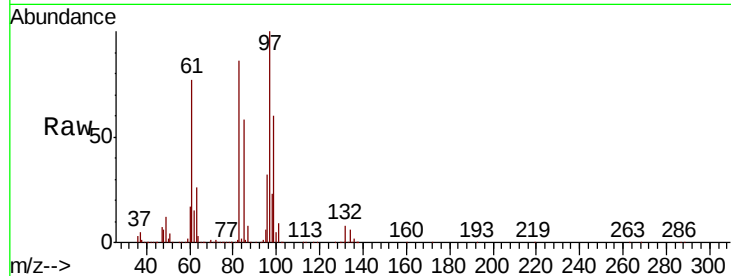
#47
 1,1,2-Trichloroethane
 Concen: 10.114 ppbv
 RT: 9.62 min Scan# 2080
 Delta R.T. -0.01 min
 Lab File: VL032740.D
 Acq: 8 Nov 2018 9:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	86.0	73.5	110.3	
85	57.4	45.8	68.6	
99	59.9	50.6	75.8	

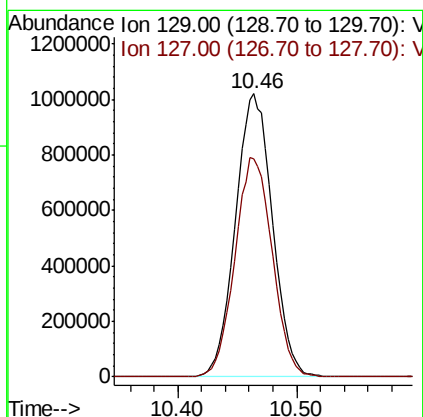
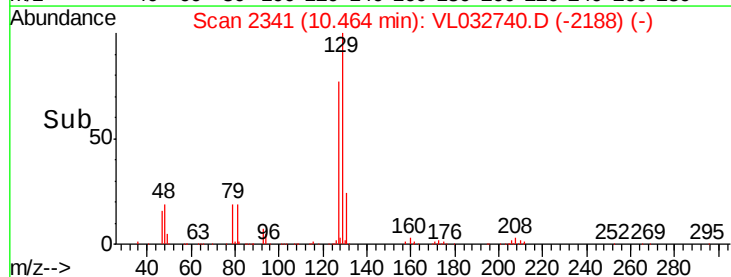
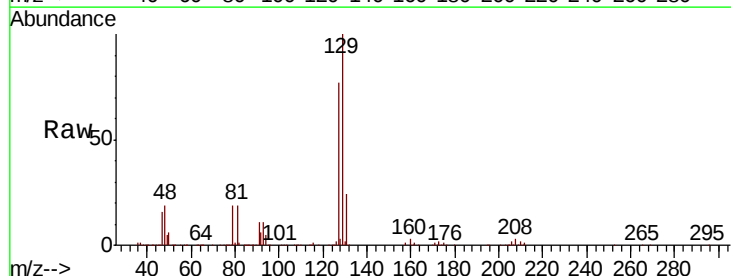
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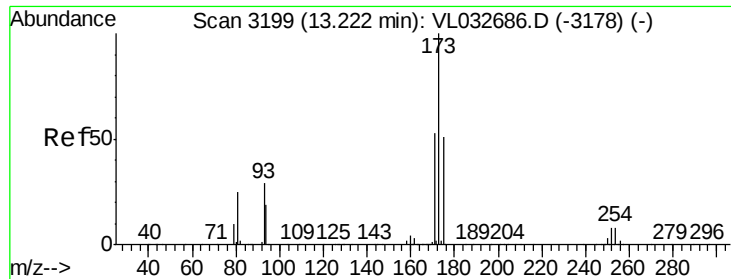
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#48
 Dibromochloromethane
 Concen: 10.453 ppbv
 RT: 10.46 min Scan# 2341
 Delta R.T. -0.01 min
 Lab File: VL032740.D
 Acq: 8 Nov 2018 9:49

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.4	39.1	117.5	





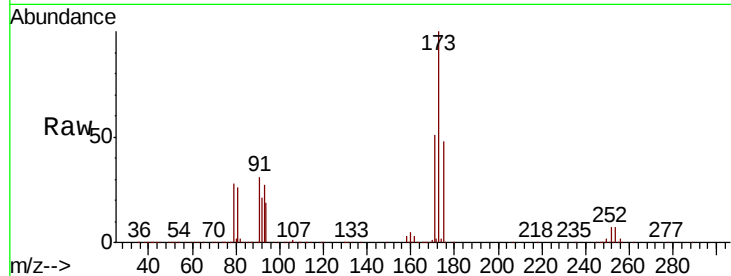
#49
Bromoform
Concen: 11.830 ppbv
RT: 13.21 min Scan# 3196
Delta R.T. -0.01 min
Lab File: VL032740.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

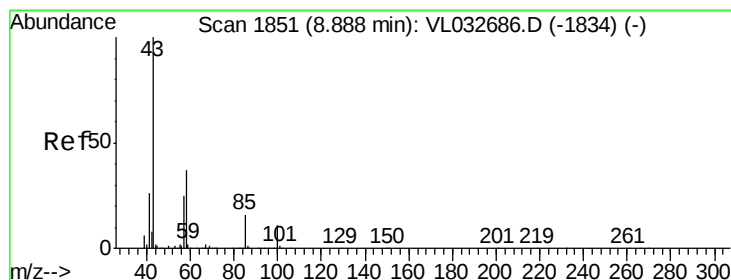
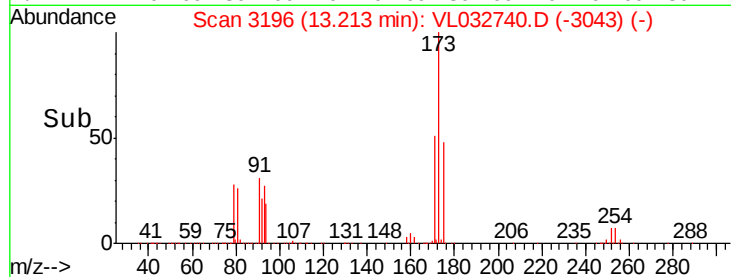
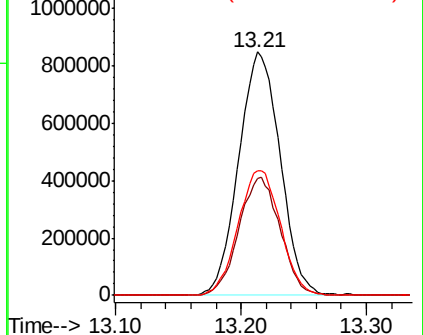
Tot Ion:173 Resp: 1952572
Ion Ratio Lower Upper
173 100
175 48.4 39.0 58.4
171 52.5 42.2 63.2

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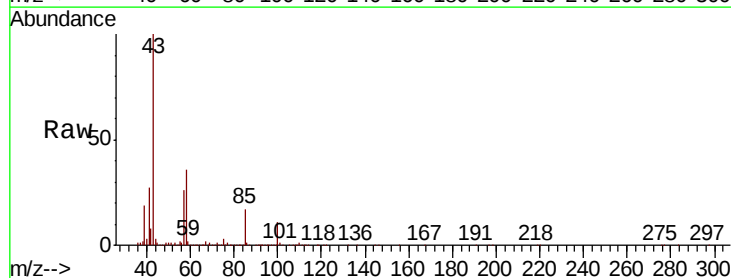


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

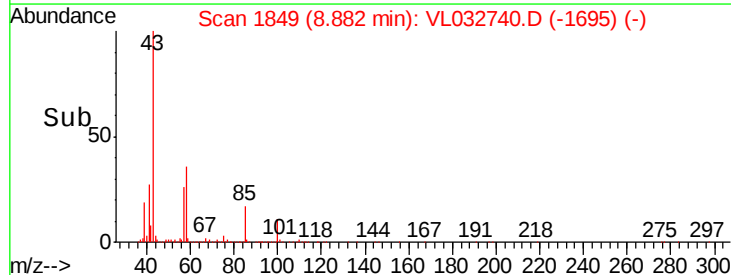
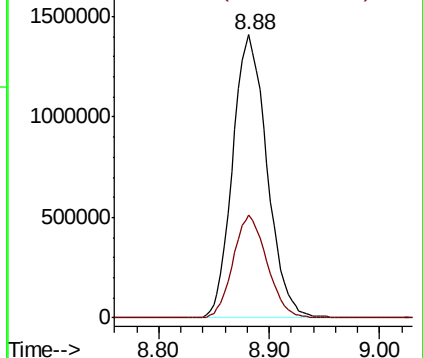


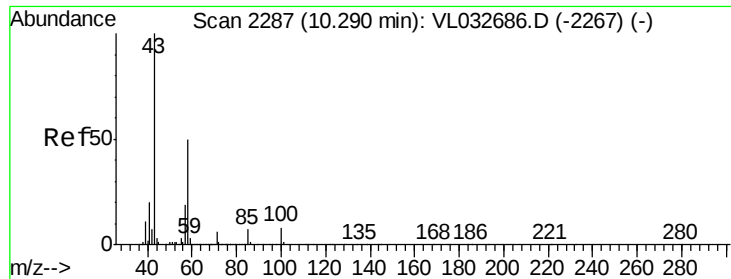
#50
4-Methyl-2-Pentanone
Concen: 11.297 ppbv
RT: 8.88 min Scan# 1849
Delta R.T. -0.00 min
Lab File: VL032740.D
Acq: 8 Nov 2018 9:49

Tgt Ion: 43 Resp: 3051245
Ion Ratio Lower Upper
43 100
58 35.7 29.7 44.5



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





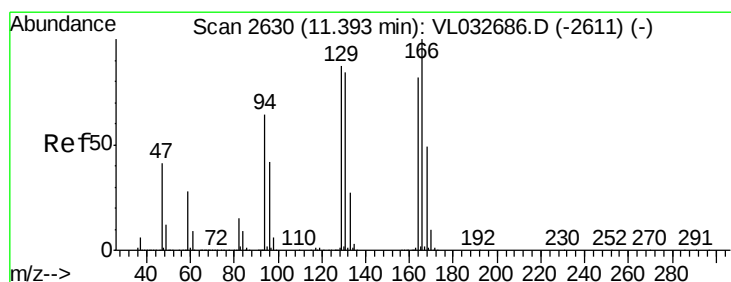
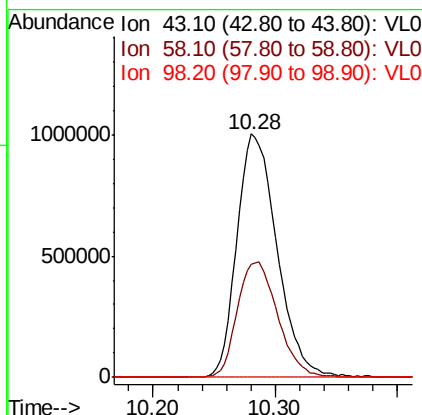
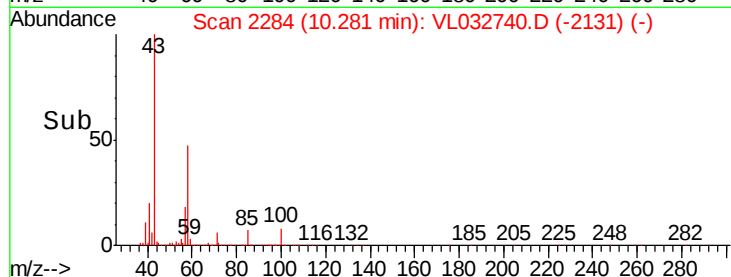
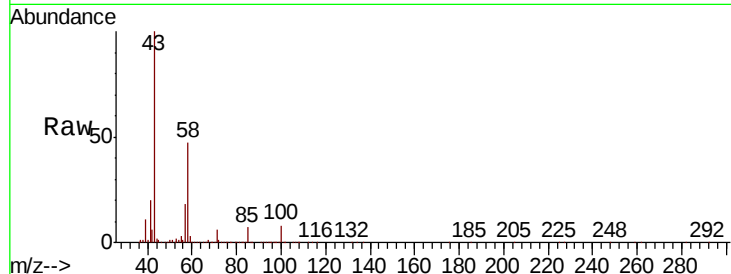
#51
2-Hexanone
Concen: 11.333 ppbv
RT: 10.28 min Scan# 2284
Delta R.T. -0.01 min
Lab File: VL032740.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:	43	Resp:	2275342
Ion	Ratio	Lower	Upper
43	100		
58	48.2	40.4	60.6
98	0.5	0.4	0.6

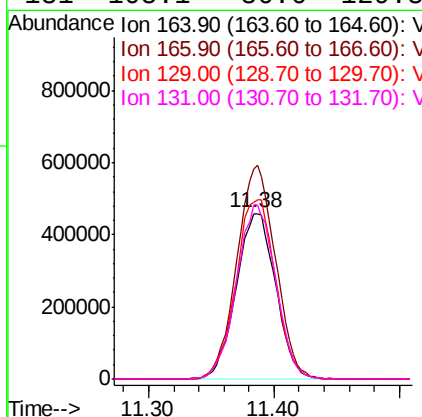
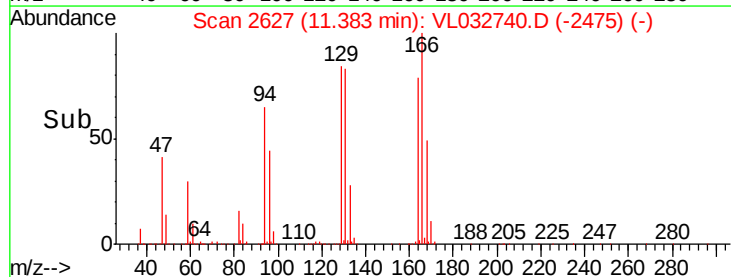
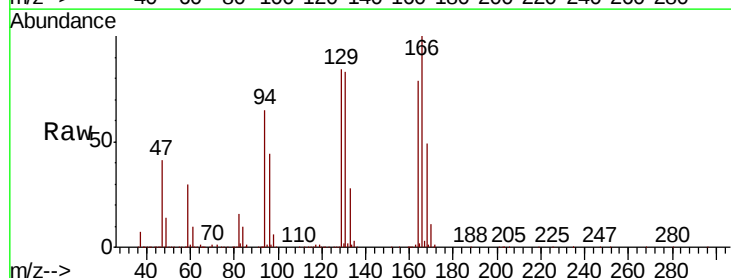
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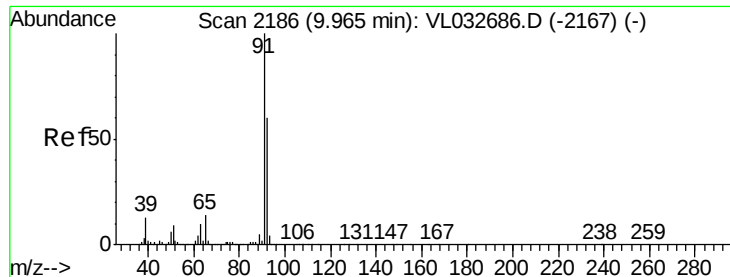
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#52
Tetrachloroethene
Concen: 10.355 ppbv
RT: 11.38 min Scan# 2627
Delta R.T. -0.01 min
Lab File: VL032740.D
Acq: 8 Nov 2018 9:49

Tgt Ion:	164	Resp:	997058
Ion	Ratio	Lower	Upper
164	100		
166	126.8	100.5	150.7
129	106.3	90.0	135.0
131	105.1	86.6	129.8





#53

Toluene

Concen: 10.279 ppbv

RT: 9.96 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL032740.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 3254150

Ion Ratio Lower Upper

91 100

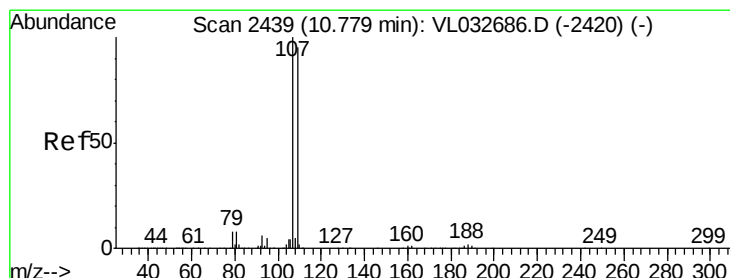
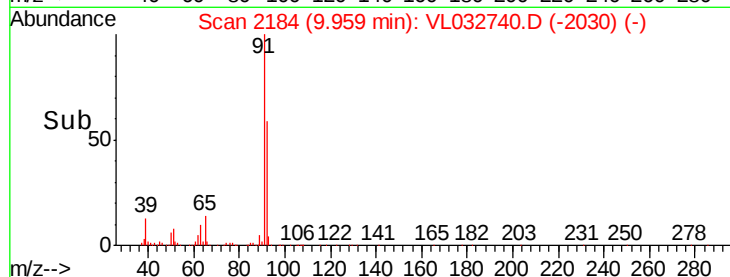
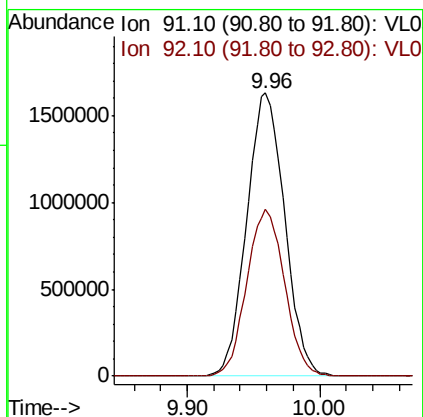
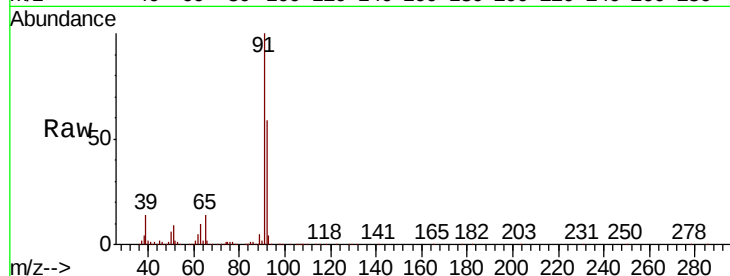
92 58.8 48.4 72.6

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#54

1,2-Dibromoethane

Concen: 10.881 ppbv

RT: 10.77 min Scan# 2437

Delta R.T. -0.00 min

Lab File: VL032740.D

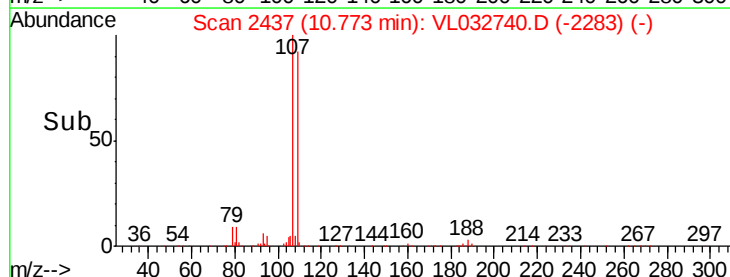
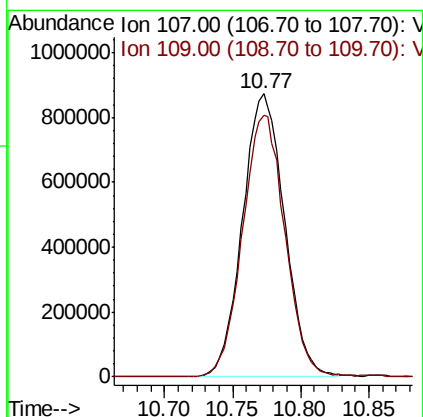
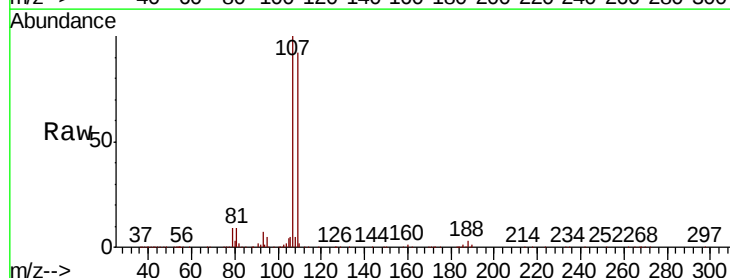
Acq: 8 Nov 2018 9:49

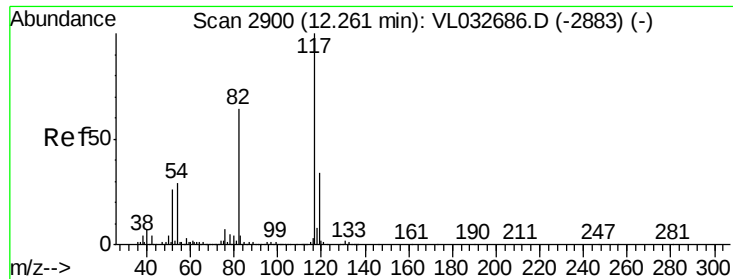
Tgt Ion: 107 Resp: 1863650

Ion Ratio Lower Upper

107 100

109 92.4 75.3 112.9





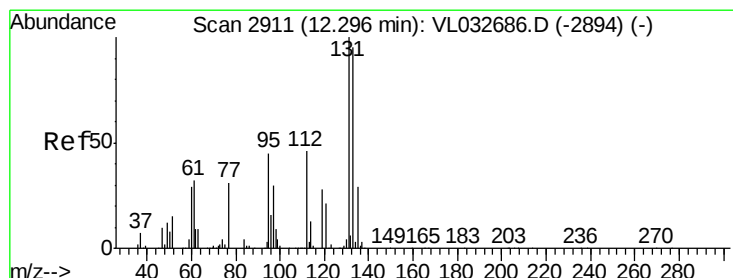
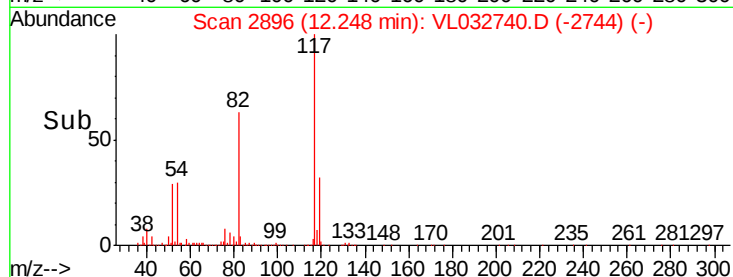
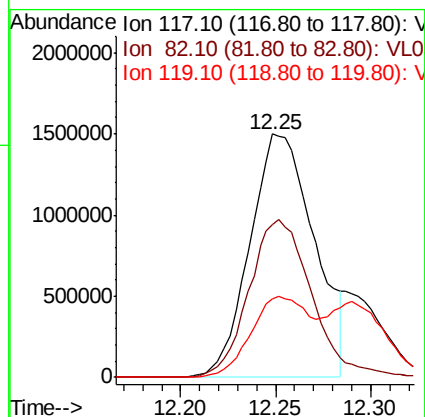
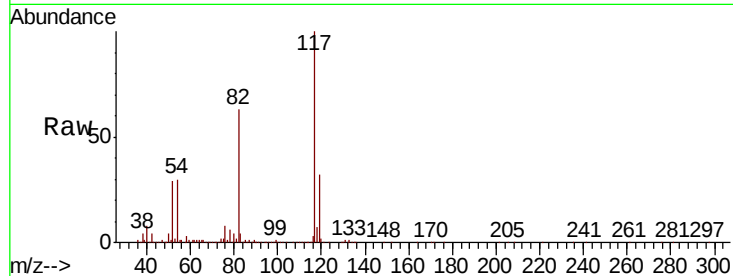
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.25 min Scan# 2896
Delta R.T. -0.01 min
Lab File: VL032740.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 3521654
Ion Ratio Lower Upper
117 100
82 63.8 52.7 79.1
119 31.8 26.7 40.1

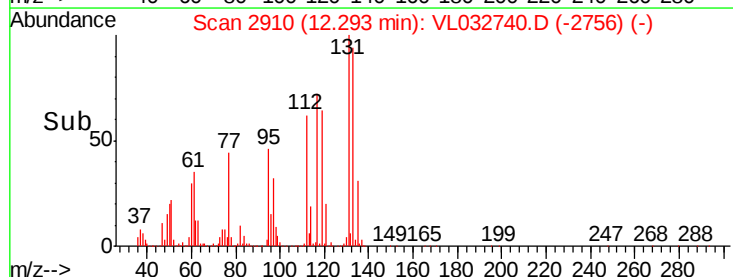
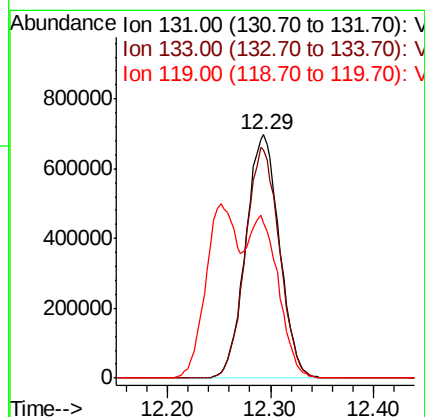
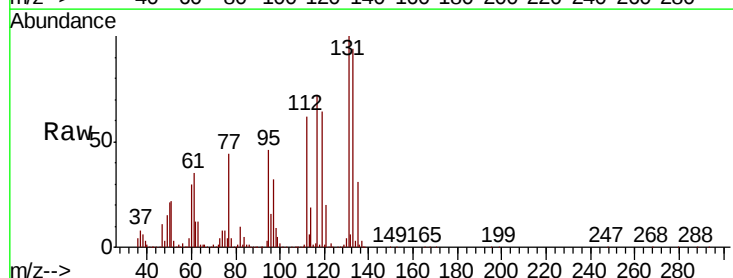
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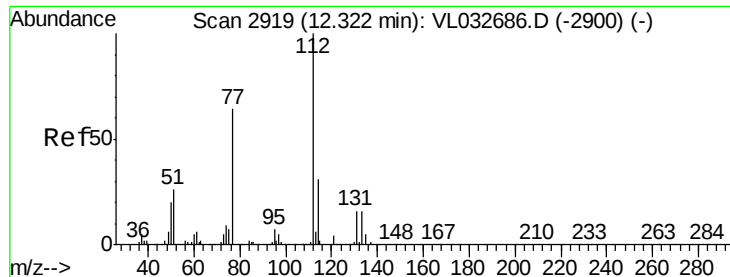
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 10.293 ppbv
RT: 12.29 min Scan# 2910
Delta R.T. -0.00 min
Lab File: VL032740.D
Acq: 8 Nov 2018 9:49

Tgt Ion:131 Resp: 1585096
Ion Ratio Lower Upper
131 100
133 95.5 75.4 113.2
119 63.3 49.1 73.7





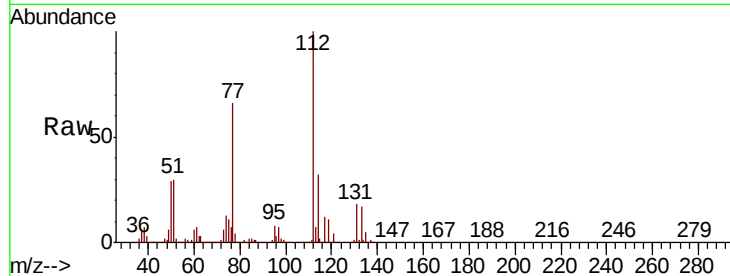
#57
Chlorobenzene
Concen: 9.886 ppbv
RT: 12.32 min Scan# 2917
Delta R.T. -0.00 min
Lab File: VL032740.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
112	100		
77	66.2	56.8	85.2
114	32.1	30.3	37.1

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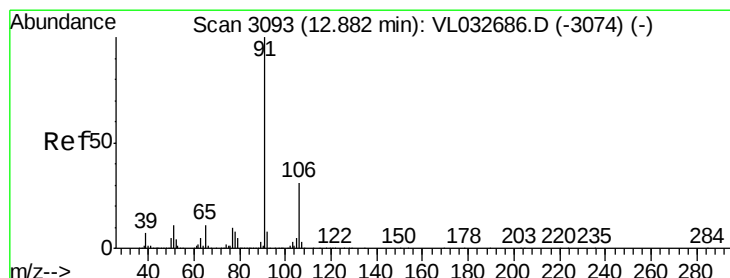
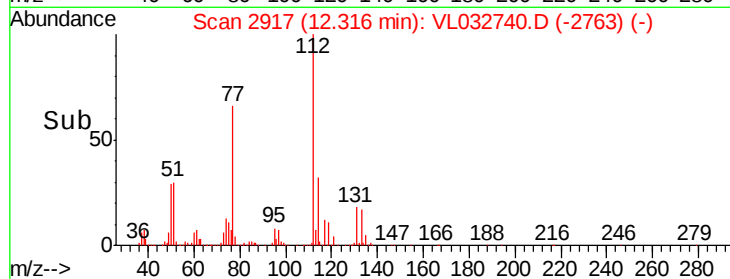
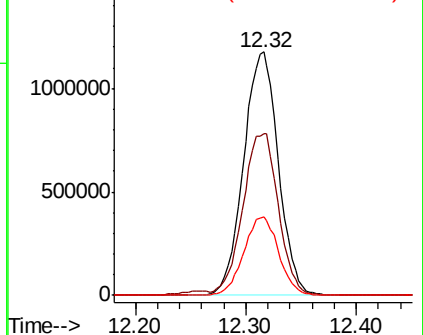


Abundance

Ion 112.10 (111.80 to 112.80): V

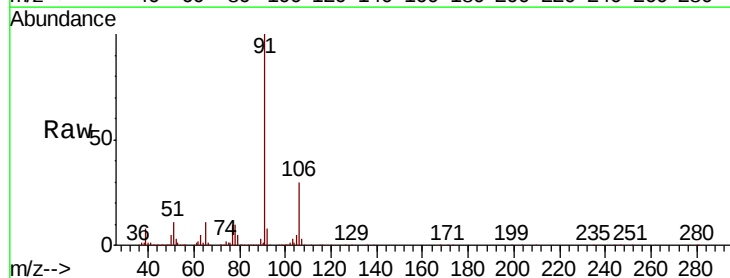
Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58
Ethyl Benzene
Concen: 11.006 ppbv
RT: 12.88 min Scan# 3091
Delta R.T. -0.01 min
Lab File: VL032740.D
Acq: 8 Nov 2018 9:49

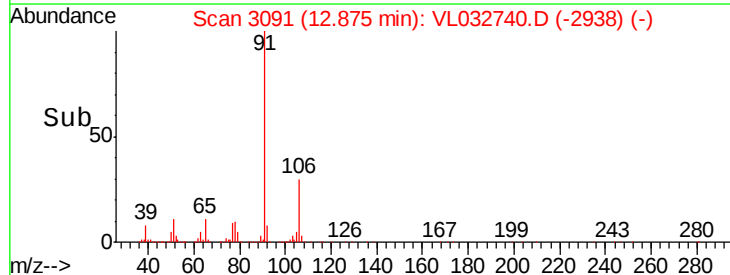
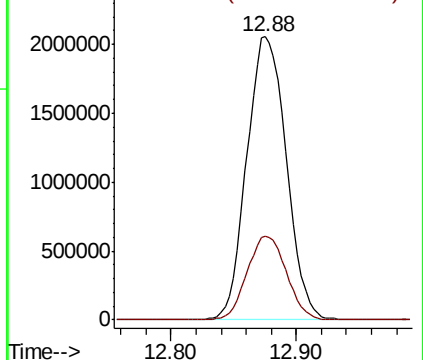
Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.8	24.2	36.2

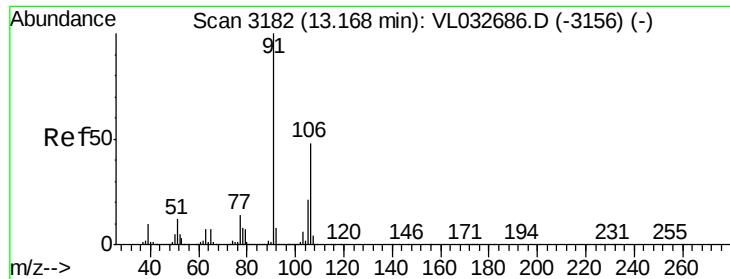


Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





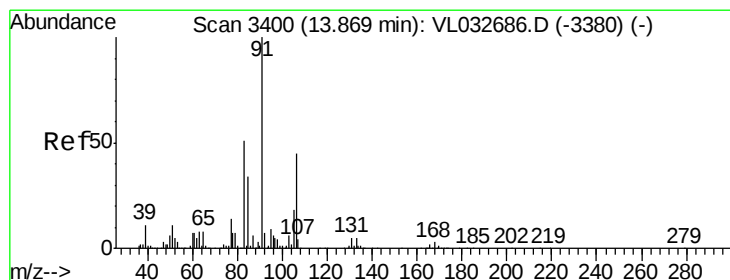
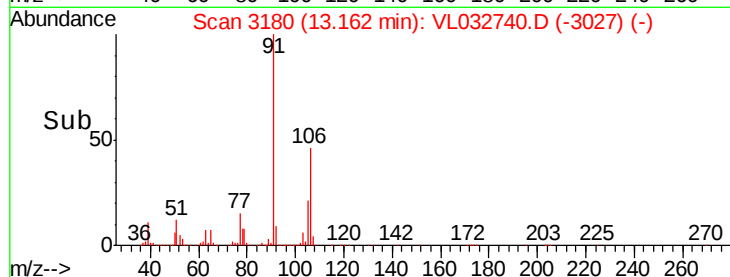
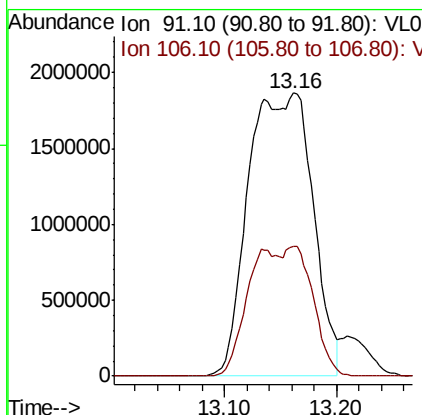
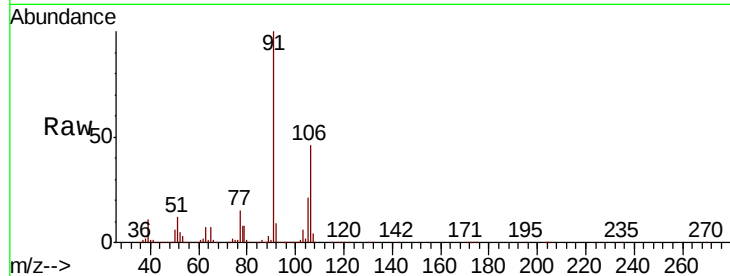
#59
m/p-Xylene
Concen: 20.377 ppbv m
RT: 13.16 min Scan# 3180
Delta R.T. -0.01 min
Lab File: VL032740.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 7423975
Ion Ratio Lower Upper
91 100
106 44.9 35.9 53.9

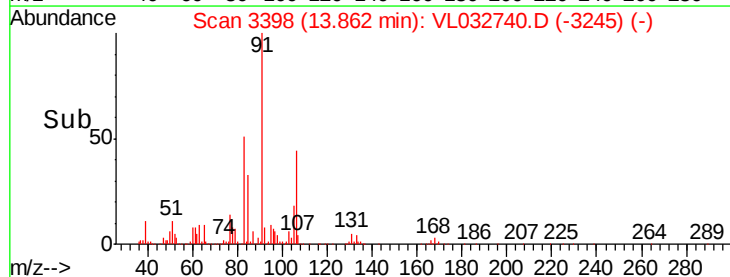
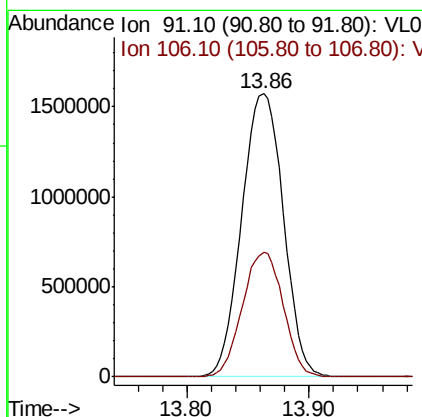
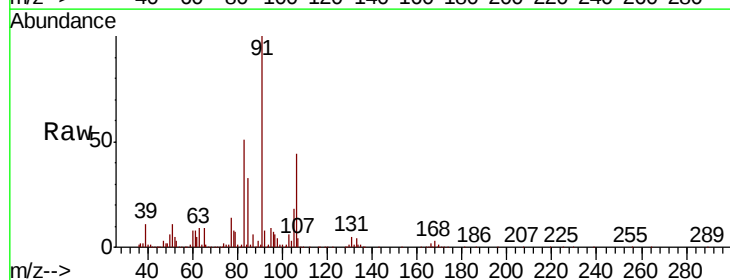
Manual Integrations
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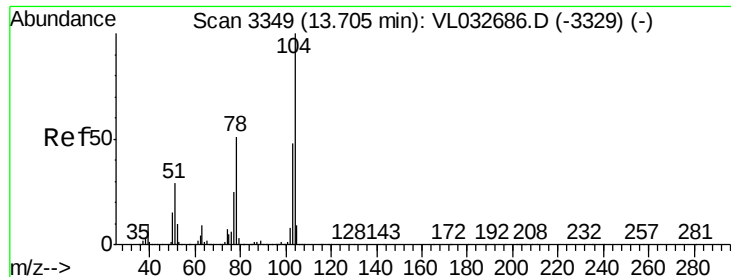
MMDadoda
11/12/2018 12:30:25 PM



#60
o-Xylene
Concen: 10.573 ppbv
RT: 13.86 min Scan# 3398
Delta R.T. -0.01 min
Lab File: VL032740.D
Acq: 8 Nov 2018 9:49

Tgt Ion: 91 Resp: 3715777
Ion Ratio Lower Upper
91 100
106 43.1 22.1 66.1





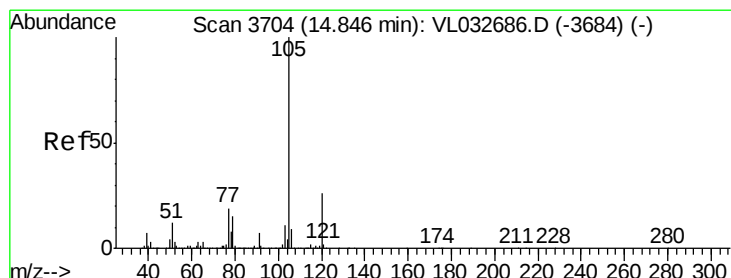
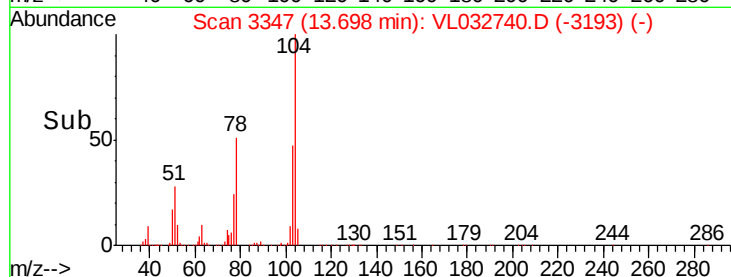
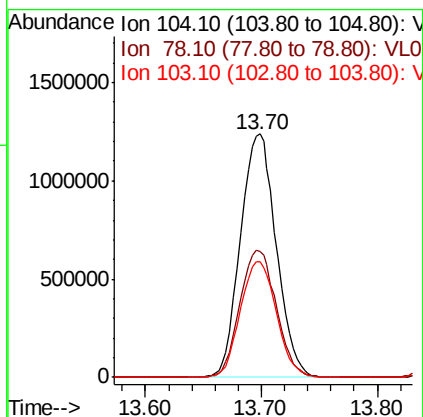
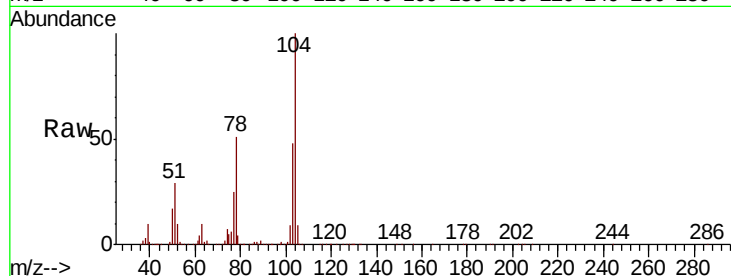
#61
Stvrene
Concen: 11.280 ppbv
RT: 13.70 min Scan# 3347
Delta R.T. -0.00 min
Lab File: VL032740.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.3	42.8	64.2
103	48.0	37.4	56.0

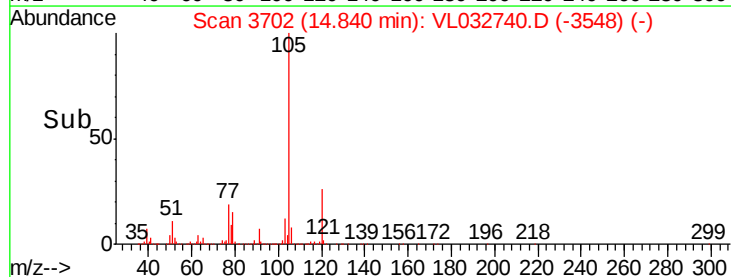
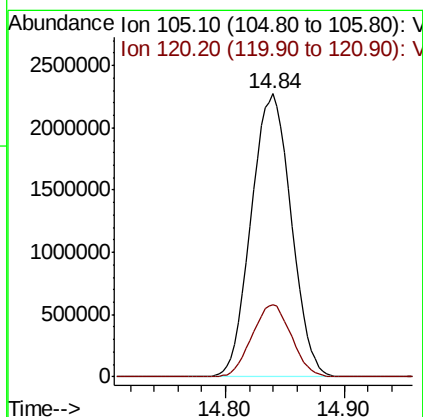
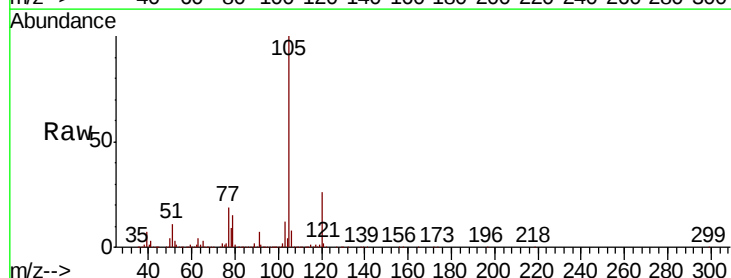
Manual Integrations
APPROVED

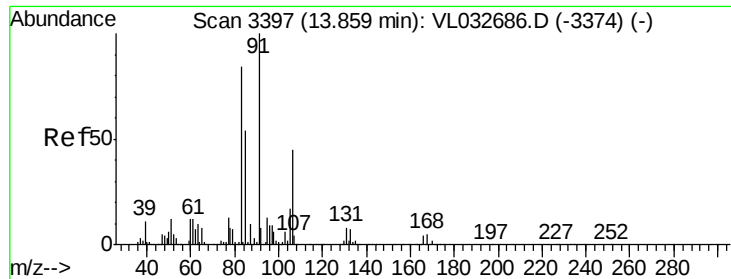
MMDadoda
11/12/2018 12:30:25 PM



#62
Isopropylbenzene
Concen: 10.645 ppbv
RT: 14.84 min Scan# 3702
Delta R.T. -0.00 min
Lab File: VL032740.D
Acq: 8 Nov 2018 9:49

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.1	20.5	30.7





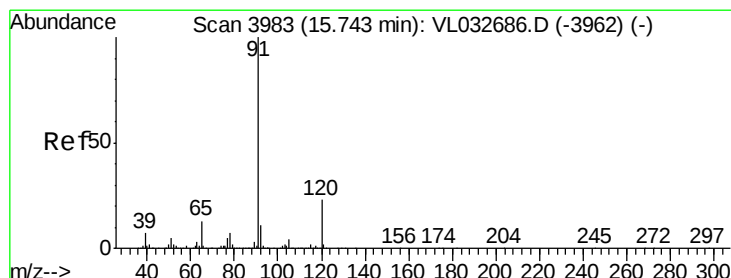
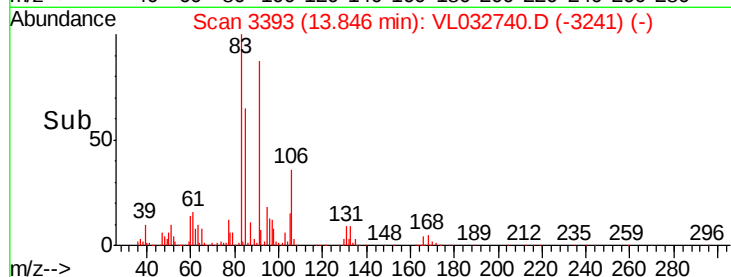
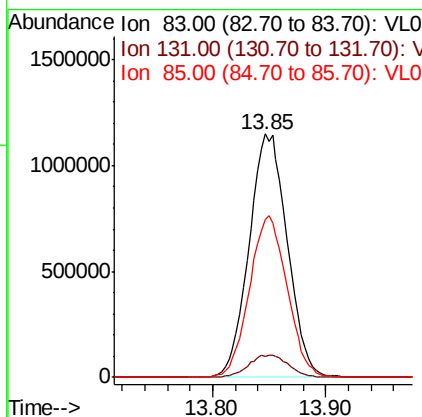
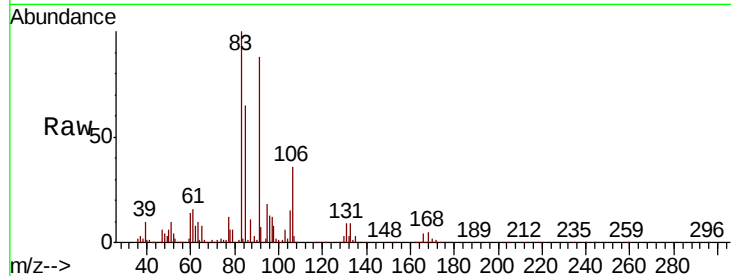
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.795 ppbv
 RT: 13.85 min Scan# 3393
 Delta R.T. -0.01 min
 Lab File: VL032740.D
 Acq: 8 Nov 2018 9:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	83	Resp	2696927
Ion Ratio	Lower	Upper	
83	100		
131	9.5	4.3	12.9
85	65.4	32.3	96.9

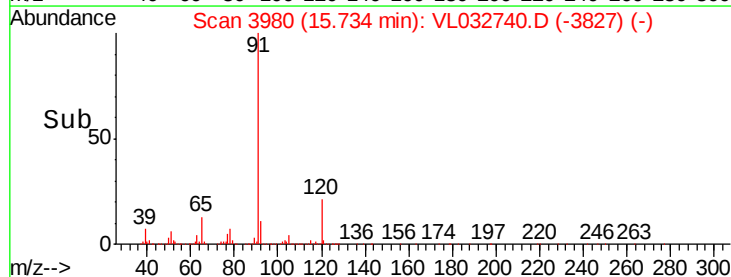
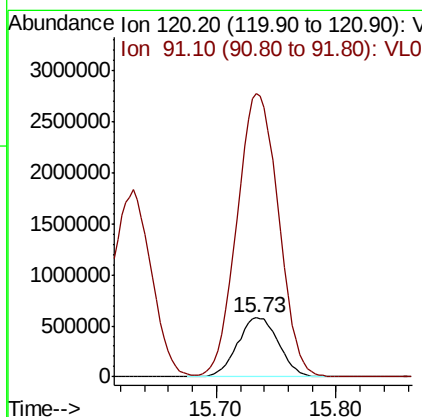
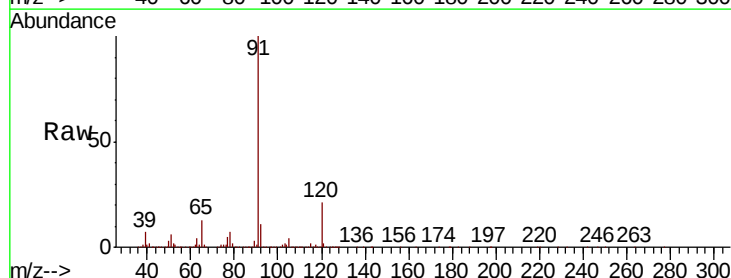
Manual Integrations
 APPROVED

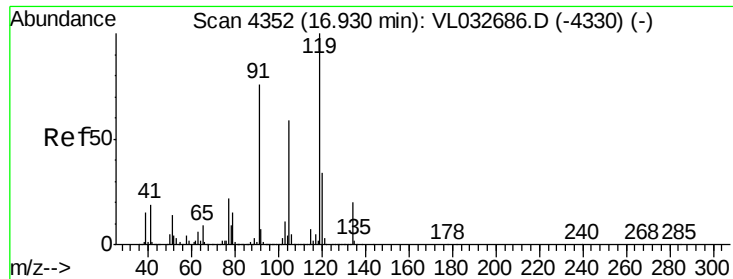
MMDadoda
 11/12/2018 12:30:25 PM



#64
 n-propylbenzene
 Concen: 10.996 ppbv m
 RT: 15.73 min Scan# 3980
 Delta R.T. -0.01 min
 Lab File: VL032740.D
 Acq: 8 Nov 2018 9:49

Tgt Ion	120	Resp	1359281
Ion Ratio	Lower	Upper	
120	100		
91	483.8	390.2	585.2





#65

tert-Butylbenzene

Concen: 11.032 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. -0.00 min

Lab File: VL032740.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 119 Resp: 4673038

Ion Ratio Lower Upper

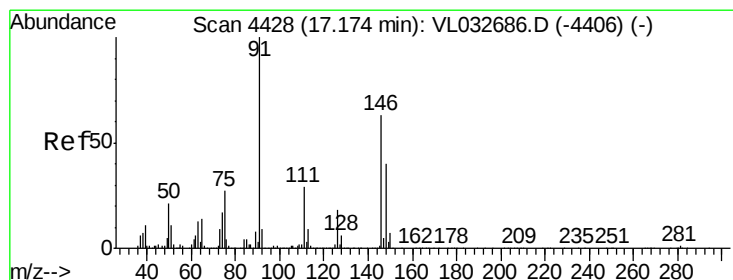
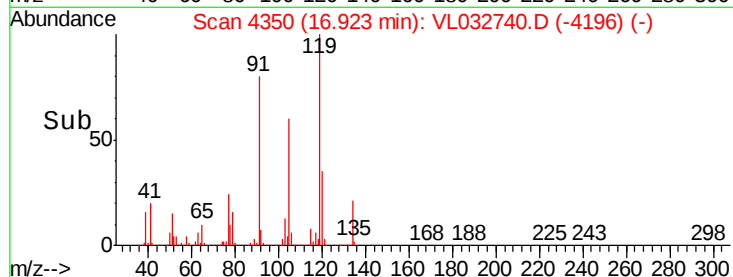
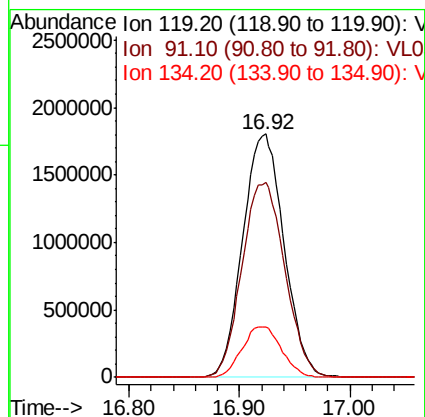
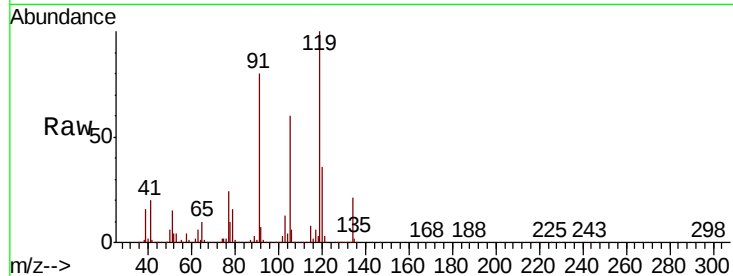
119 100

91 83.5 67.8 101.8

134 19.9 15.8 23.8

Manual Integrations
APPROVED

MMDadoda
11/12/2018 12:30:25 PM



#66

Benzyl Chloride

Concen: 11.830 ppbv

RT: 17.17 min Scan# 4426

Delta R.T. -0.01 min

Lab File: VL032740.D

Acq: 8 Nov 2018 9:49

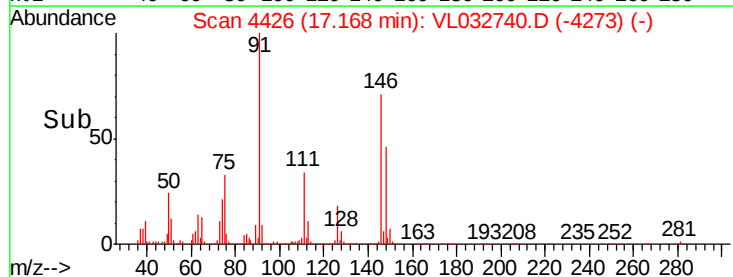
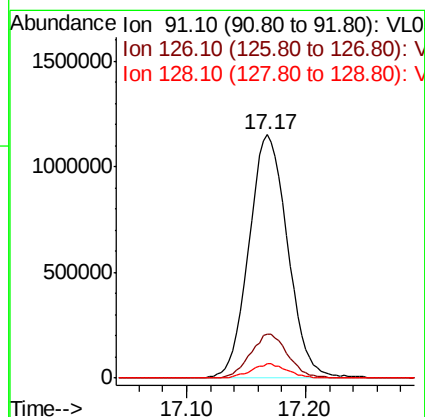
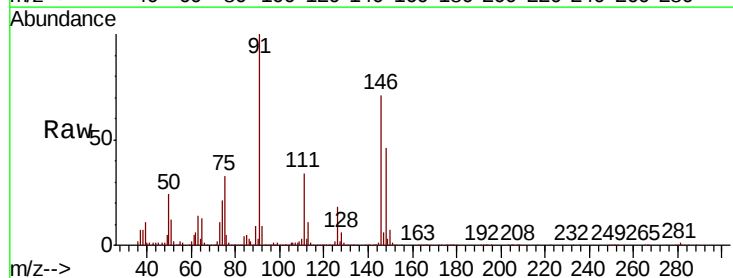
Tgt Ion: 91 Resp: 2587315

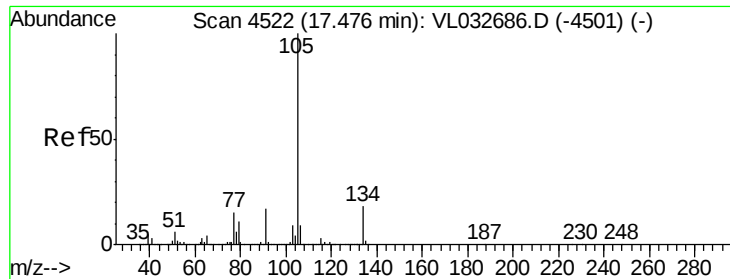
Ion Ratio Lower Upper

91 100

126 17.7 13.9 20.9

128 5.6 4.3 6.5





#67

sec-Butylbenzene

Concen: 11.058 ppbv

RT: 17.47 min Scan# 4520

Delta R.T. -0.01 min

Lab File: VL032740.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 6661752

Ion Ratio Lower Upper

105 100

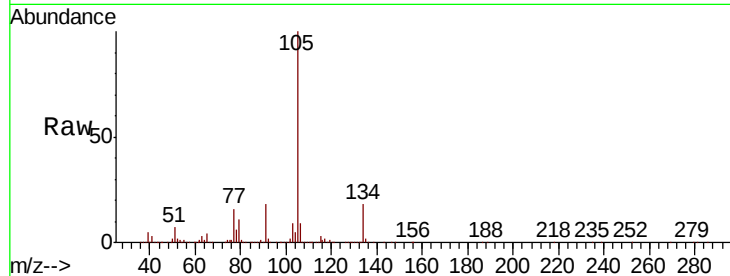
134 18.0 14.2 21.2

Manual Integrations

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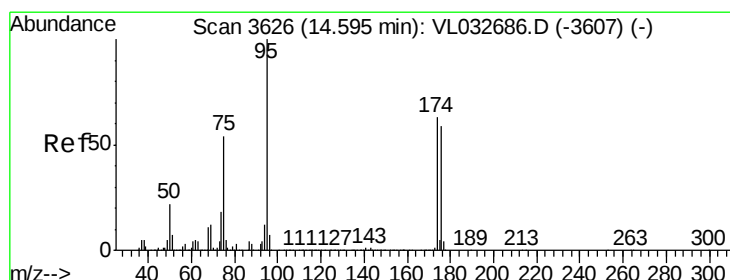
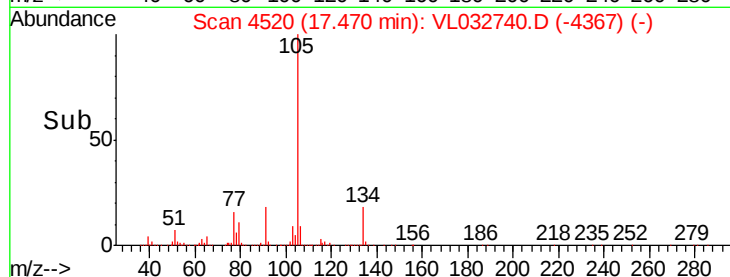
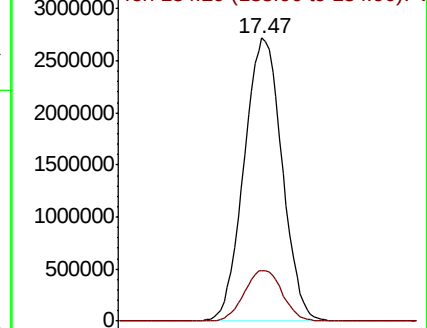
MMDadoda

11/12/2018 12:30:25 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.123 ppbv

RT: 14.59 min Scan# 3624

Delta R.T. -0.00 min

Lab File: VL032740.D

Acq: 8 Nov 2018 9:49

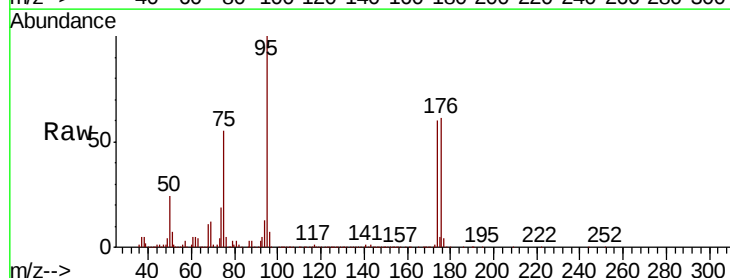
Tgt Ion: 95 Resp: 2654405

Ion Ratio Lower Upper

95 100

174 62.9 46.0 69.0

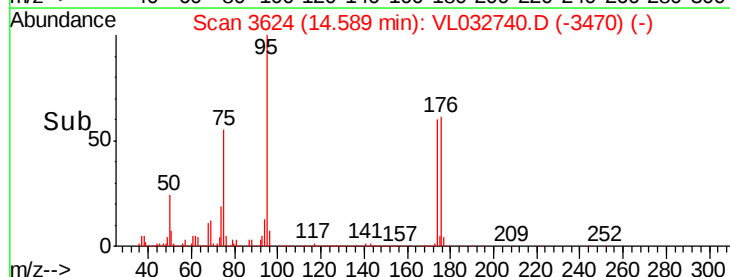
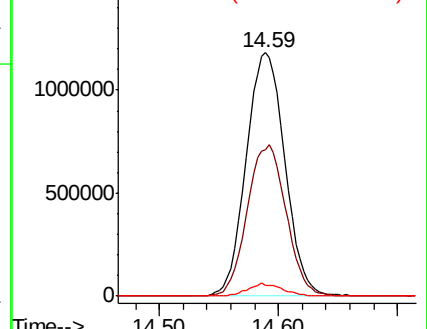
175 4.8 3.4 5.0

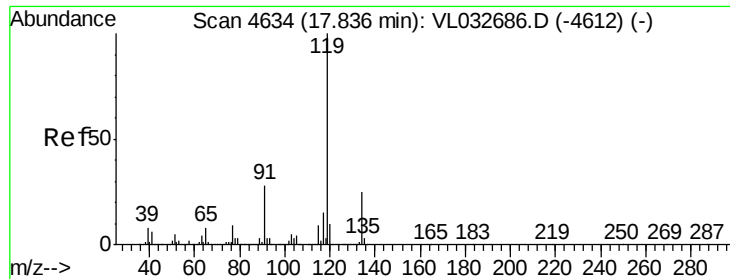


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





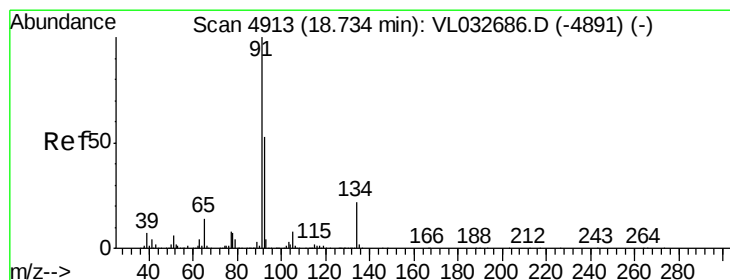
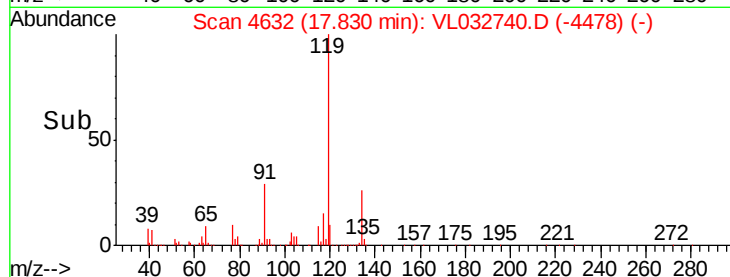
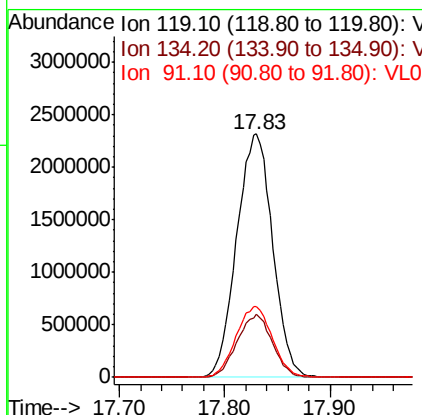
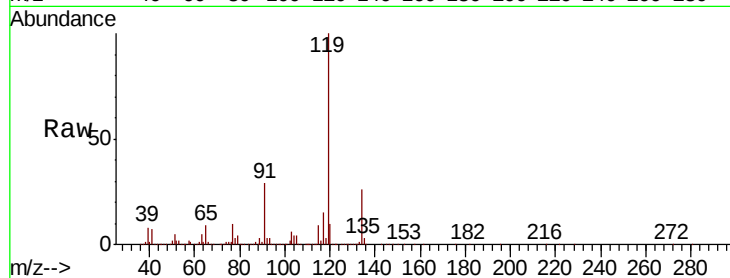
#69
 p-Isopropyltoluene
 Concen: 11.490 ppbv
 RT: 17.83 min Scan# 4632
 Delta R.T. -0.00 min
 Lab File: VL032740.D
 Acq: 8 Nov 2018 9:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.2	30.2
91	29.3	24.0	36.0

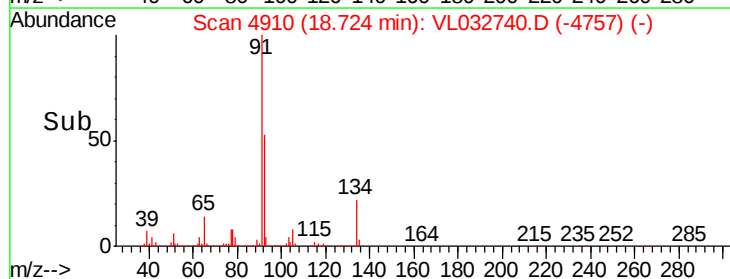
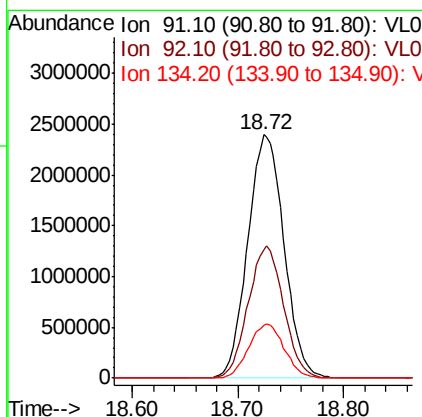
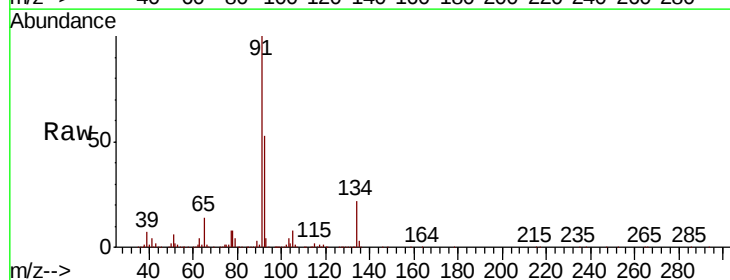
Manual Integrations
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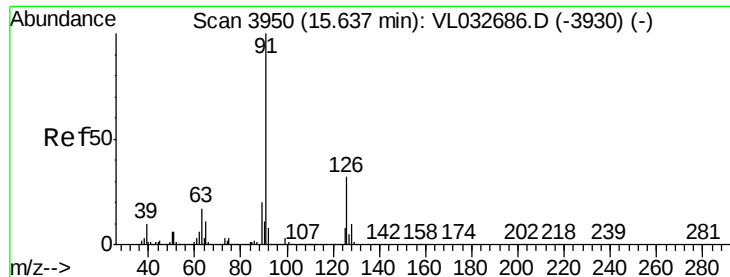
MMDadoda
 11/12/2018 12:30:25 PM



#70
 n-Butylbenzene
 Concen: 11.651 ppbv
 RT: 18.72 min Scan# 4910
 Delta R.T. -0.01 min
 Lab File: VL032740.D
 Acq: 8 Nov 2018 9:49

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.1	43.0	64.4
134	21.9	17.0	25.6





#71

2-Chlorotoluene

Concen: 11.638 ppbv

RT: 15.63 min Scan# 3948

Delta R.T. -0.00 min

Lab File: VL032740.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 4113906

Ion Ratio Lower Upper

91 100

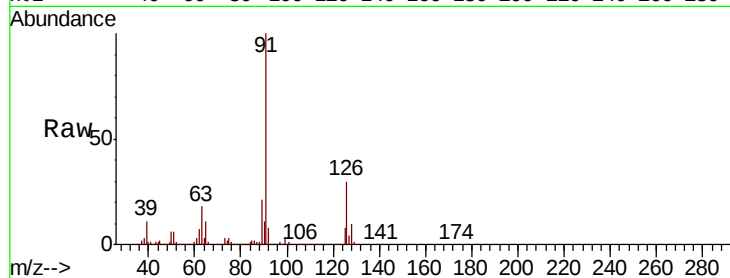
126 29.8 11.8 47.4

Manual Integrations

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11/12/2018 12:30:25 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

3000000

2500000

2000000

1500000

1000000

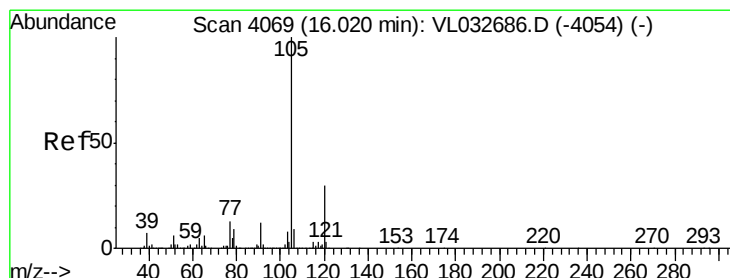
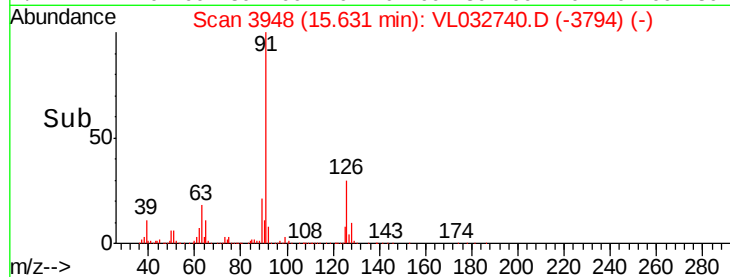
500000

0

15.60

15.70

Time-->



#72

4-Ethyltoluene

Concen: 11.623 ppbv

RT: 16.01 min Scan# 4067

Delta R.T. -0.00 min

Lab File: VL032740.D

Acq: 8 Nov 2018 9:49

Tgt Ion:105 Resp: 4350442

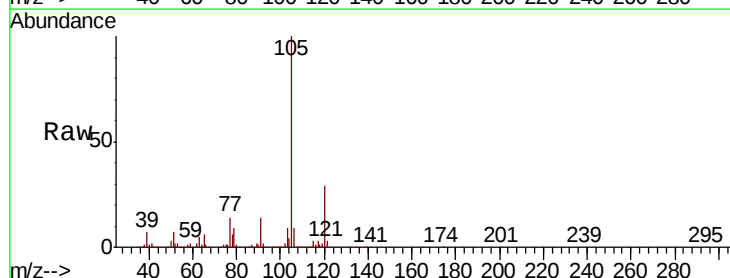
Ion Ratio Lower Upper

105 100

120 29.4 23.7 35.5

91 13.2 10.4 15.6

77 14.0 11.4 17.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

3000000

2500000

2000000

1500000

1000000

500000

0

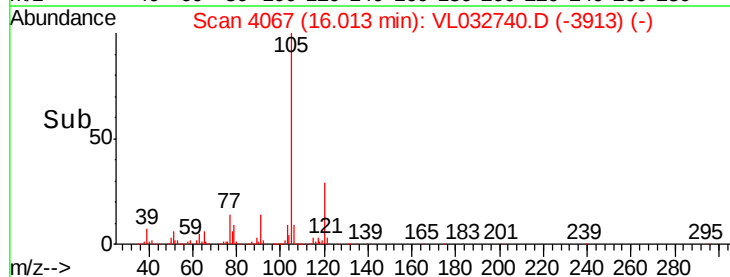
15.95

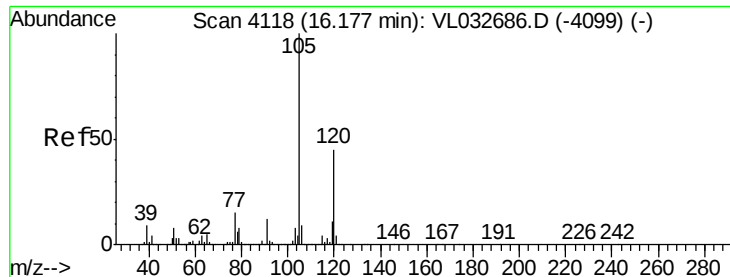
16.00

16.05

16.10

Time-->





#73

1,3,5-Trimethylbenzene

Concen: 11.403 ppbv

RT: 16.17 min Scan# 4116

Delta R.T. -0.01 min

Lab File: VL032740.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 4157148

Ion Ratio Lower Upper

105 100

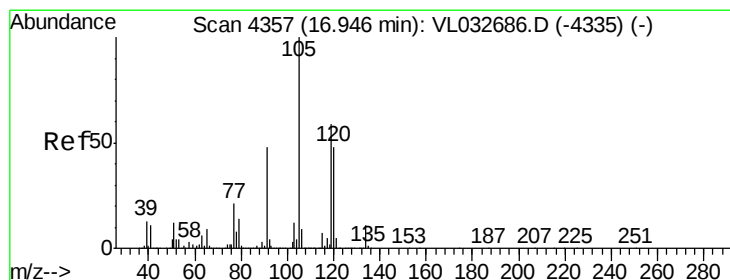
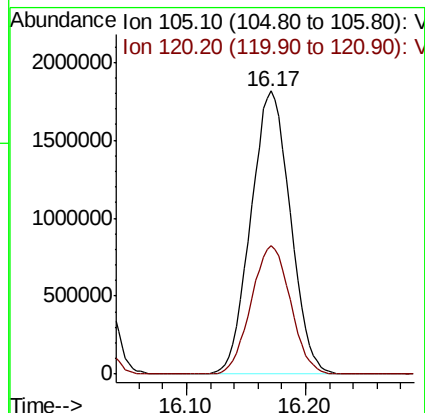
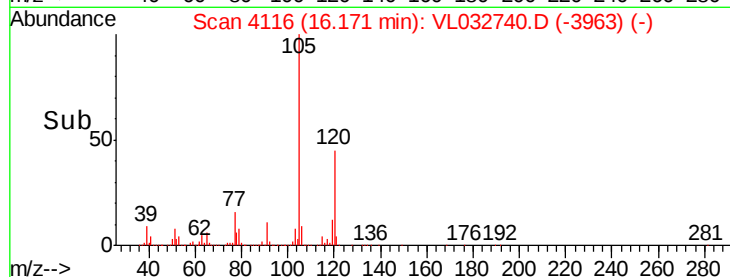
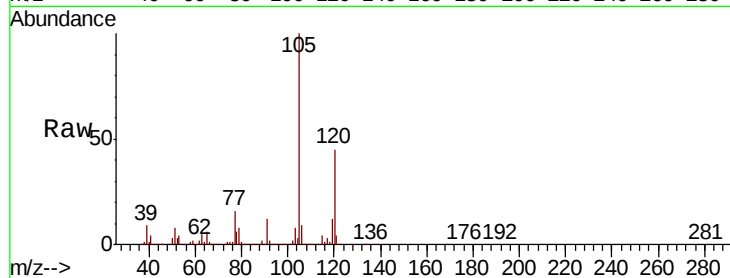
120 45.4 35.4 53.2

Manual Integrations

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11/12/2018 12:30:25 PM



#74

1,2,4-Trimethylbenzene

Concen: 10.973 ppbv

RT: 16.94 min Scan# 4355

Delta R.T. -0.01 min

Lab File: VL032740.D

Acq: 8 Nov 2018 9:49

Tgt Ion:105 Resp: 4272166

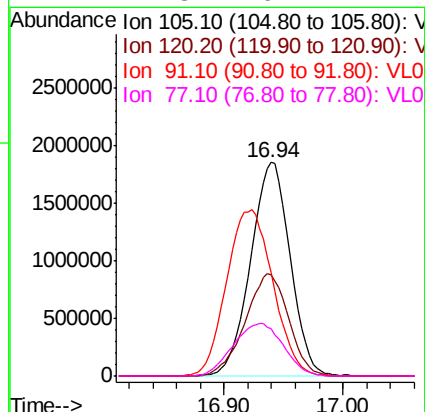
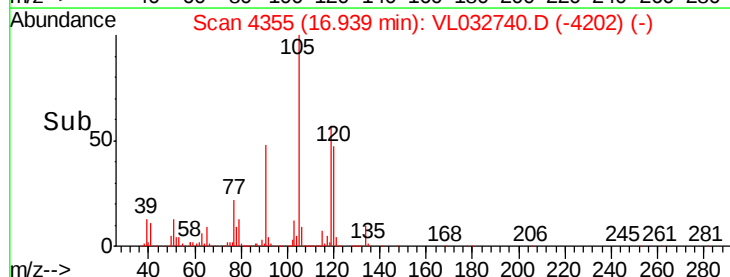
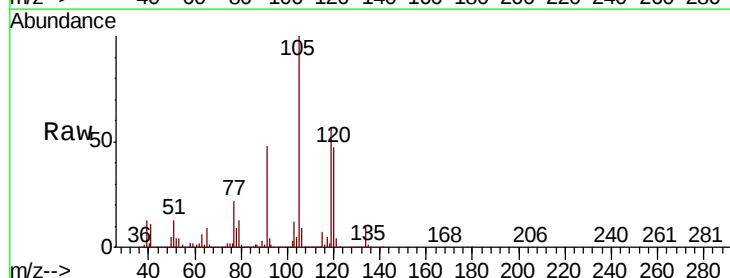
Ion Ratio Lower Upper

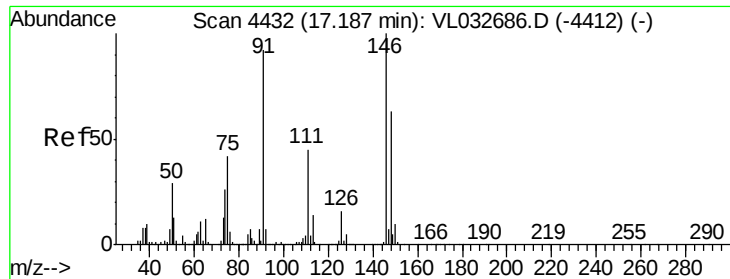
105 100

120 47.2 35.8 53.8

91 48.3 33.2 49.8

77 22.3 16.2 24.4





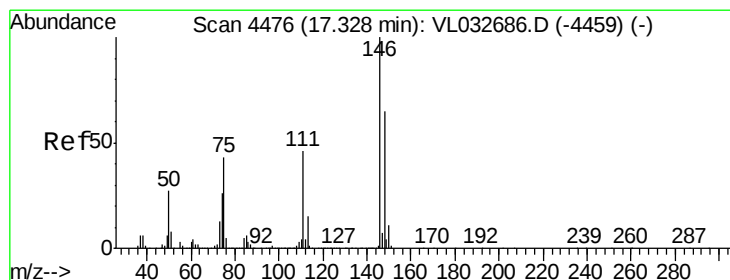
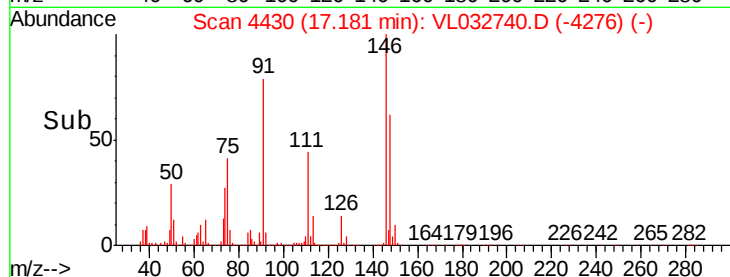
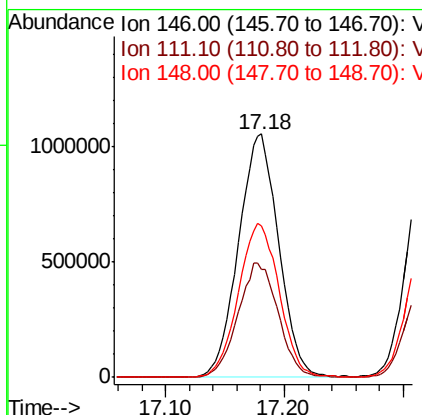
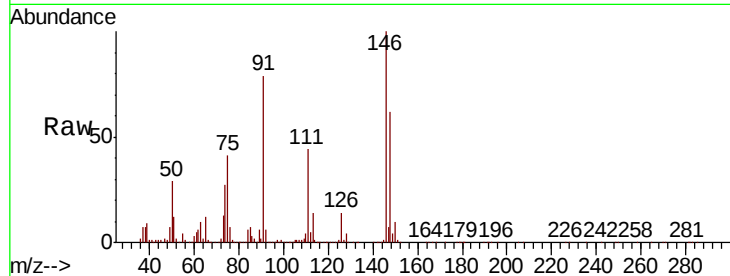
#75
 1,3-Dichlorobenzene
 Concen: 10.971 ppbv
 RT: 17.18 min Scan# 4430
 Delta R.T. -0.00 min
 Lab File: VL032740.D
 Acq: 8 Nov 2018 9:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.2	24.4	73.2
148	64.4	31.9	95.9

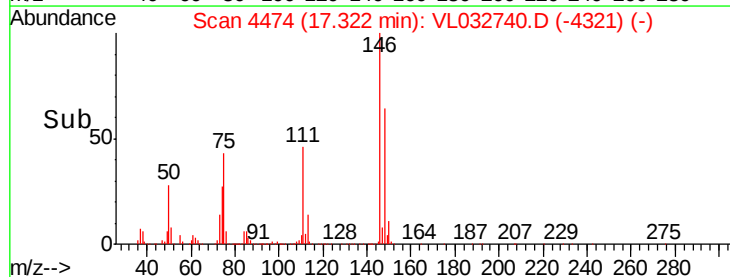
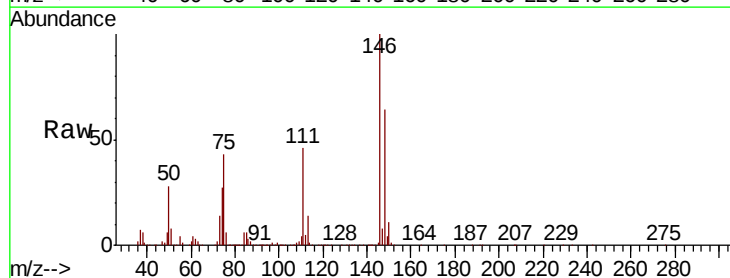
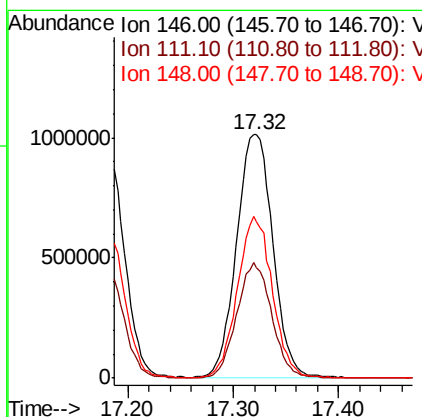
Manual Integrations
 APPROVED

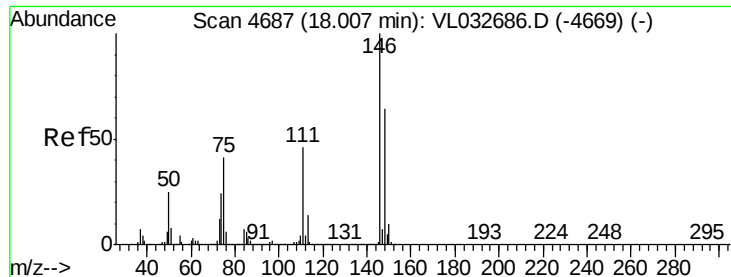
MMDadoda
 11/12/2018 12:30:25 PM



#76
 1,4-Dichlorobenzene
 Concen: 11.715 ppbv
 RT: 17.32 min Scan# 4474
 Delta R.T. -0.01 min
 Lab File: VL032740.D
 Acq: 8 Nov 2018 9:49

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.6	23.7	71.1
148	64.2	32.1	96.3





#77

1,2-Dichlorobenzene

Concen: 11.310 ppbv

RT: 18.00 min Scan# 4685

Delta R.T. -0.01 min

Lab File: VL032740.D

Acq: 8 Nov 2018 9:49

Instrument :

MSVOA_L

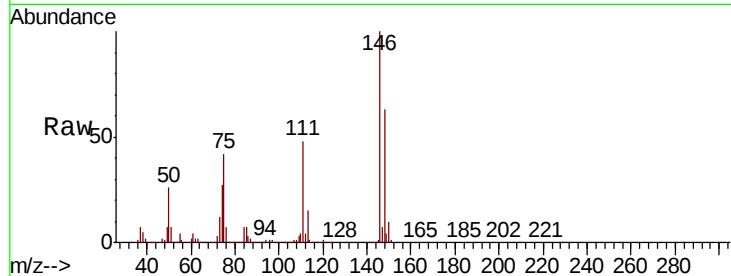
ClientSampleId :

VSTDCCC010EC

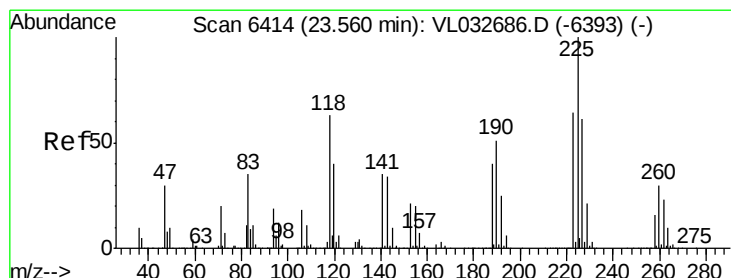
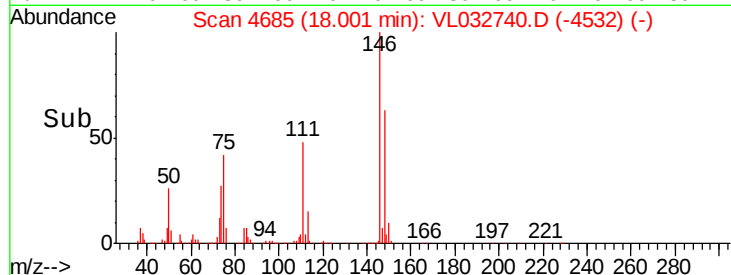
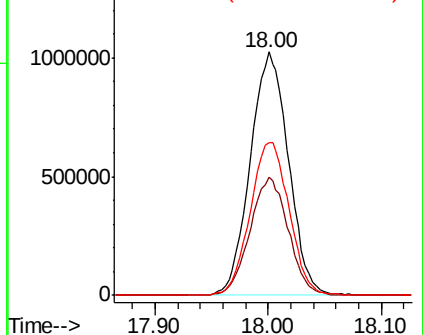
Tot Ion:	146	Resp:	2399016
Ion	Ratio	Lower	Upper
146	100		
111	48.8	25.3	75.8
148	64.3	31.9	95.9

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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



#78

Hexachloro-1,3-Butadiene

Concen: 15.351 ppbv

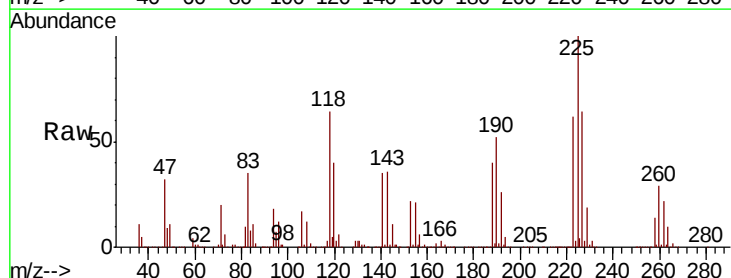
RT: 23.55 min Scan# 6412

Delta R.T. -0.00 min

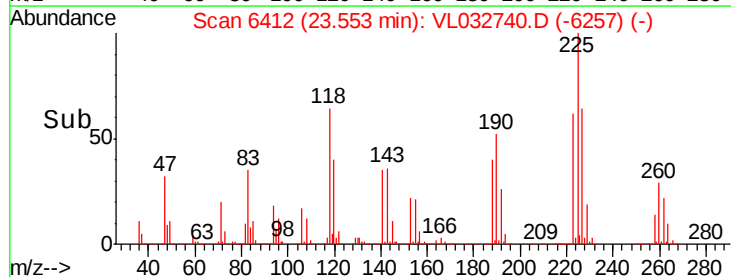
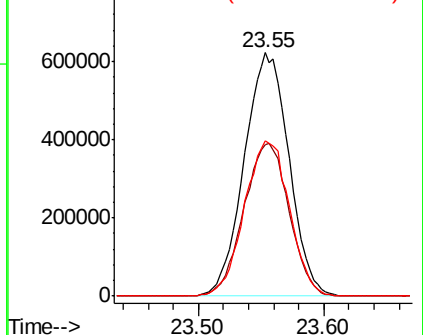
Lab File: VL032740.D

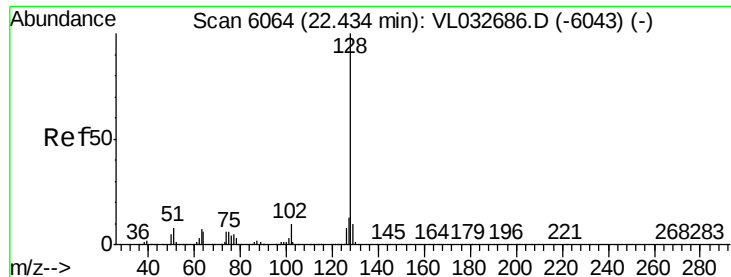
Acq: 8 Nov 2018 9:49

Tgt Ion:	225	Resp:	1538465
Ion	Ratio	Lower	Upper
225	100		
223	63.8	50.7	76.1
227	64.4	50.7	76.1



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V





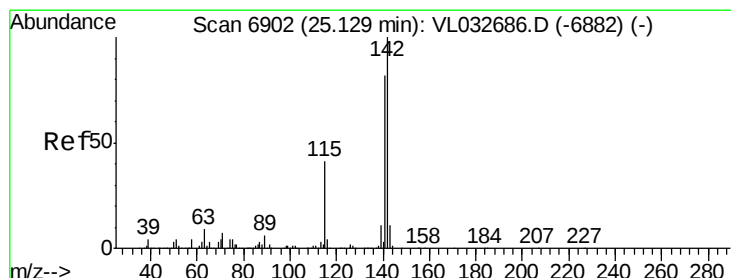
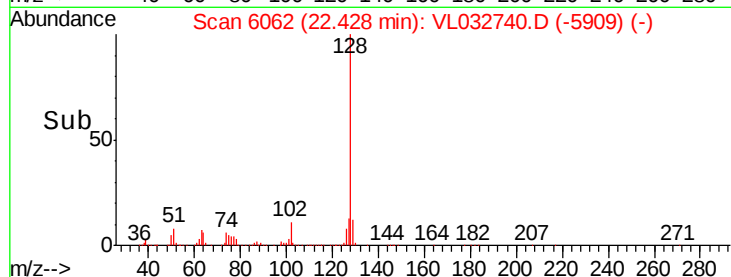
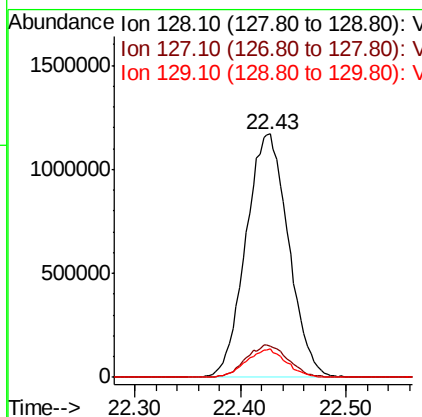
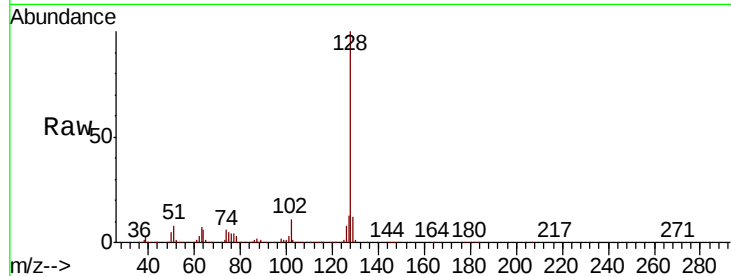
#79
Naphthalene
Concen: 13.597 ppbv
RT: 22.43 min Scan# 6062
Delta R.T. -0.01 min
Lab File: VL032740.D
Acq: 8 Nov 2018 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	11.5	8.6	13.0

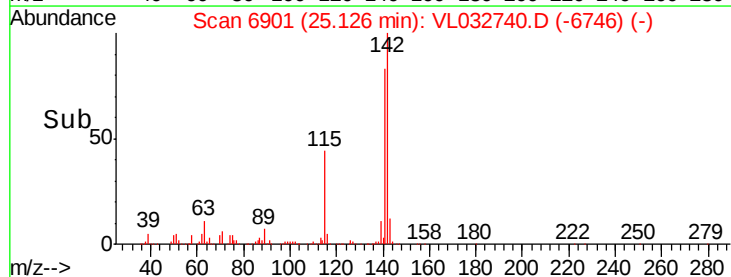
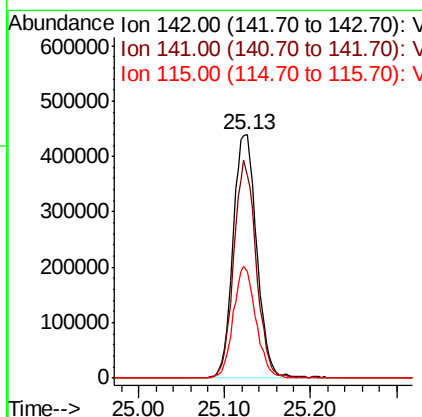
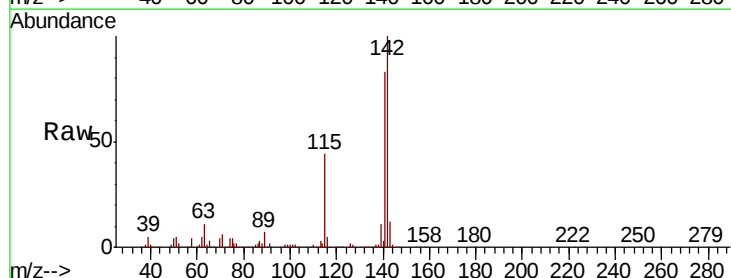
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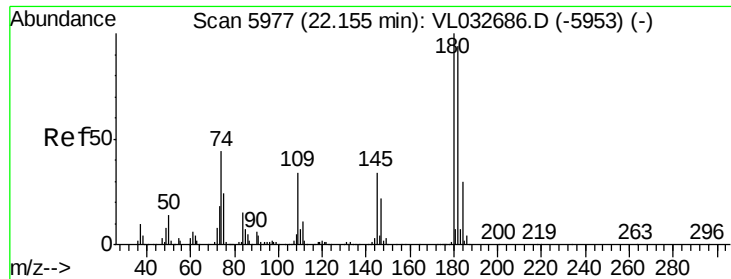
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#80
Naphthalene, 2-methyl-
Concen: 14.321 ppbv
RT: 25.13 min Scan# 6901
Delta R.T. -0.00 min
Lab File: VL032740.D
Acq: 8 Nov 2018 9:49

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.8	67.5	101.3
115	43.7	33.5	50.3





#81
 1,2,4-Trichlorobenzene
 Concen: 13.779 ppbv
 RT: 22.15 min Scan# 5976
 Delta R.T. -0.00 min
 Lab File: VL032740.D
 Acq: 8 Nov 2018 9:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.5	114.7
184	30.4	24.7	37.1

Manual Integrations
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