

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL100915\
 Data File : VL026181.D
 Acq On : 9 Oct 2015 18:11
 Operator : SY/MD
 Sample : VL1009ABS01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1009ABS01

Manual Integrations
 APPROVED

MMdadoda
 10/12/2015 1:24:21 PM

Quant Time: Oct 10 00:22:10 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL100915AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct 0
 QLast Update : Fri Oct 09 16:23:14 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.67	49	868537	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	8.35	114	2521133	10.00	ppbv	0.02
55) Chlorobenzene-d5	13.77	117	2890889m	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.32	95	2288583	10.31	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.65	85	1569484	9.64	ppbv	98
3) Chlorodifluoromethane	3.58	51	836348	8.24	ppbv	99
4) Chloromethane	3.76	50	520676	9.10	ppbv	99
5) Vinyl Chloride	3.90	62	534817	9.27	ppbv	99
6) Bromomethane	4.15	94	404085	9.73	ppbv	96
7) Chloroethane	4.25	64	229737	9.17	ppbv	97
8) Dichlorotetrafluoroethane	3.82	85	1280786	9.01	ppbv	100
9) Propene	3.60	41	419937	9.02	ppbv	99
10) Heptane	9.38	43	1516505	9.37	ppbv	100
11) Trichlorofluoromethane	4.71	101	1496520	9.36	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	5.32	101	983710	9.09	ppbv	99
13) Ethanol	4.34	45	67703	9.88	ppbv	93
14) Bromoethene	4.46	108	417558	9.36	ppbv	99
15) Acetone	4.62	43	885892	7.89	ppbv	100
16) 1,3-Butadiene	3.98	39	470831	9.07	ppbv	100
17) tert-Butyl alcohol	5.14	59	654091	9.67	ppbv	99
18) 1,1-Dichloroethene	5.10	96	452570	9.24	ppbv	99
19) Isopropyl Alcohol	4.76	45	417795	9.55	ppbv #	98
20) Methylene Chloride	5.17	84	420121	8.79	ppbv	98
21) Allyl Chloride	5.24	41	685396	9.35	ppbv	100
22) trans-1,2-Dichloroethene	5.78	96	580582	9.25	ppbv	99
23) Vinyl Acetate	6.00	43	1844301	9.28	ppbv	99
24) 1,1-Dichloroethane	5.93	63	1241339	9.16	ppbv	99
25) Ethyl Acetate	6.69	43	1964209	9.05	ppbv	100
26) Hexane	6.68	57	958240	9.11	ppbv	99
27) Carbon Disulfide	5.40	76	1262642	10.02	ppbv	99
28) Methyl tert-Butyl Ether	5.97	73	1597744	9.43	ppbv	99
29) Chloroform	6.77	83	1463982	9.39	ppbv	99
30) Cyclohexane	8.31	84	967976	9.66	ppbv	100
31) cis-1,2-Dichloroethene	6.54	61	913352	9.53	ppbv	100
32) 1,1,1-Trichloroethane	7.62	97	1470382	9.88	ppbv	100
34) 2-Butanone	6.22	43	1245960	8.88	ppbv	100
35) Carbon Tetrachloride	8.18	117	1528425	9.57	ppbv	100
36) Benzene	8.05	78	2189553	9.08	ppbv	99
37) 1,2-Dichloroethane	7.40	62	1173123	9.08	ppbv	99
38) Trichloroethene	9.09	130	874667	7.90	ppbv	99
39) 1,2-Dichloropropane	8.85	63	806537	9.00	ppbv	98
40) 1,4-Dioxane	9.15	88	190803	12.94	ppbv #	1
41) Tetrahydrofuran	7.14	42	757158	9.58	ppbv	99
42) Bromodichloromethane	9.05	83	1613046	9.49	ppbv	100
43) Methyl Methacrylate	9.29	69	849024	10.00	ppbv	99

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Quant Time: Oct 10 00:22:10 2015
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct 09 2015
 QLast Update : Fri Oct 09 16:23:14 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.11	57	3536851	8.82	ppbv	99
45) t-1,3-Dichloropropene	10.68	75	1220762	10.44	ppbv	97
46) cis-1,3-Dichloropropene	10.05	75	1439402	10.03	ppbv	100
47) 1,1,2-Trichloroethane	10.91	97	957807	8.91	ppbv	99
48) Dibromochloromethane	11.83	129	1484072	9.74	ppbv	99
49) Bromoform	14.85	173	1174719	10.24	ppbv	99
50) 4-Methyl-2-Pentanone	10.12	43	1790738	9.65	ppbv	100
51) 2-Hexanone	11.65	43	1689770	10.13	ppbv #	99
52) Tetrachloroethene	12.82	164	928359	7.79	ppbv	98
53) Toluene	11.26	91	2858493	9.20	ppbv	100
54) 1,2-Dibromoethane	12.17	107	1461612	9.07	ppbv	97
56) 1,1,1,2-Tetrachloroethane	13.82	131	1089857	9.41	ppbv	98
57) Chlorobenzene	13.84	112	2314700	8.87	ppbv	100
58) Ethyl Benzene	14.44	91	4016156	9.56	ppbv	99
59) m/p-Xylene	14.75	91	6236289m	18.51	ppbv	
60) o-Xylene	15.52	91	3159571	8.95	ppbv	99
61) Styrene	15.34	104	1516433	10.50	ppbv	100
62) Isopropylbenzene	16.58	105	4362169	9.37	ppbv	100
63) 1,1,2,2-Tetrachloroethane	15.52	83	2104680	8.02	ppbv	100
64) n-propylbenzene	17.55	120	1191882	9.51	ppbv	99
65) tert-Butylbenzene	18.85	119	3746306	9.12	ppbv	100
66) Benzyl Chloride	19.13	91	1374190	11.26	ppbv	99
67) sec-Butylbenzene	19.44	105	5365038	9.37	ppbv	100
69) p-Isopropyltoluene	19.82	119	4407676	9.62	ppbv	100
70) n-Butylbenzene	20.78	91	4232242	9.64	ppbv	100
71) 2-Chlorotoluene	17.46	91	3286434	9.67	ppbv	98
72) 4-Ethyltoluene	17.85	105	3670636	9.74	ppbv	100
73) 1,3,5-Trimethylbenzene	18.02	105	3379813	9.54	ppbv	98
74) 1,2,4-Trimethylbenzene	18.86	105	3360664	9.05	ppbv	96
75) 1,3-Dichlorobenzene	19.15	146	2168971	9.13	ppbv	100
76) 1,4-Dichlorobenzene	19.30	146	2226803	9.29	ppbv	100
77) 1,2-Dichlorobenzene	20.06	146	2144404	9.23	ppbv	99
78) Hexachloro-1,3-Butadiene	24.69	225	703461	7.55	ppbv	99
79) Naphthalene	23.95	128	2072870	8.89	ppbv	100
80) Naphthalene, 2-methyl-	26.06	142	374620	7.16	ppbv	99
81) 1,2,4-Trichlorobenzene	23.76	180	984541	8.52	ppbv	99

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

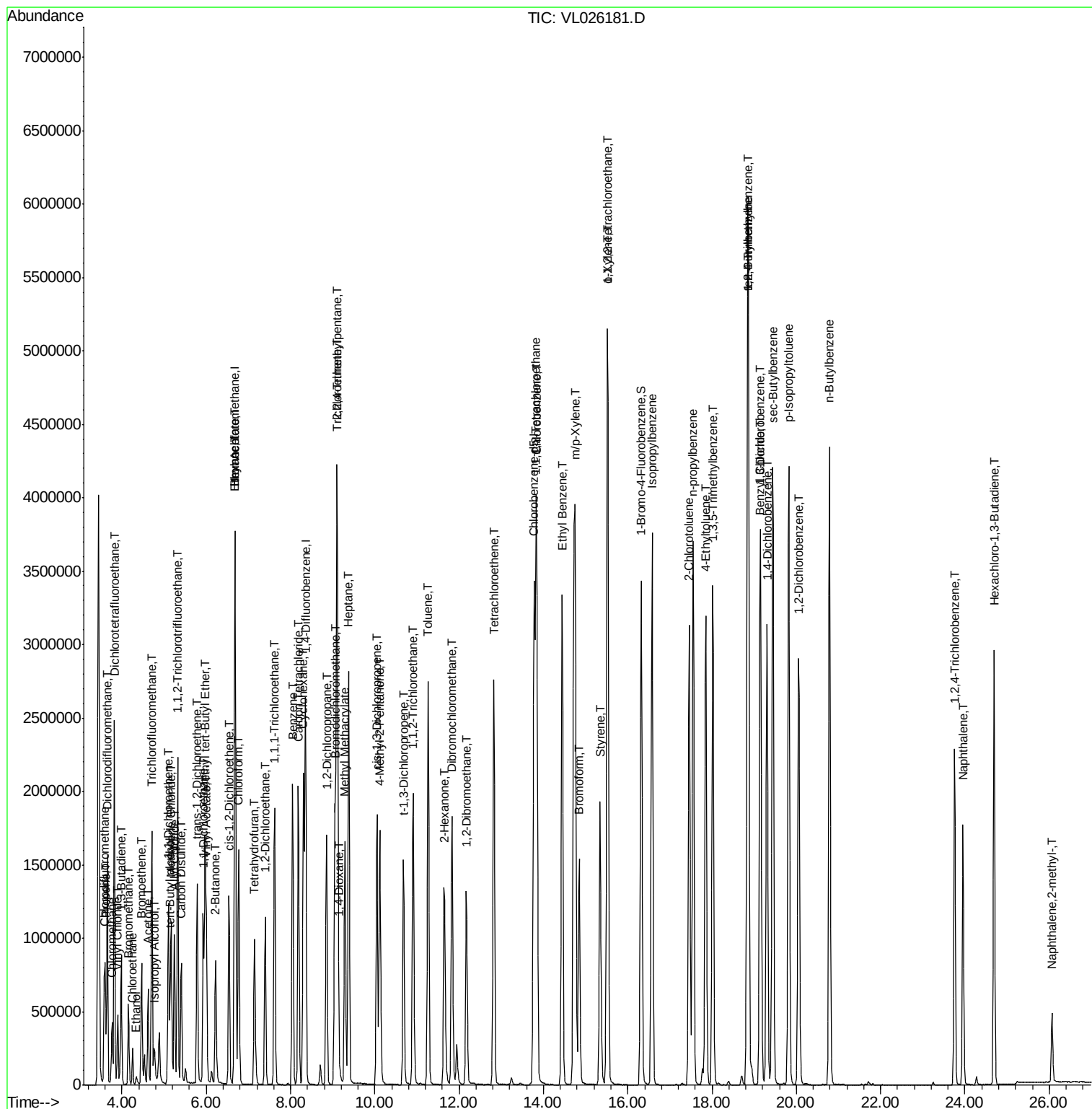
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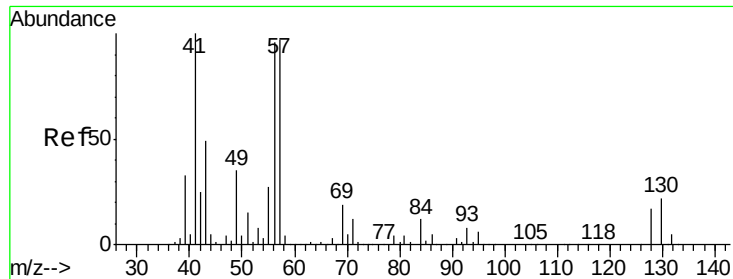
Instrument :
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ClientSampleId :
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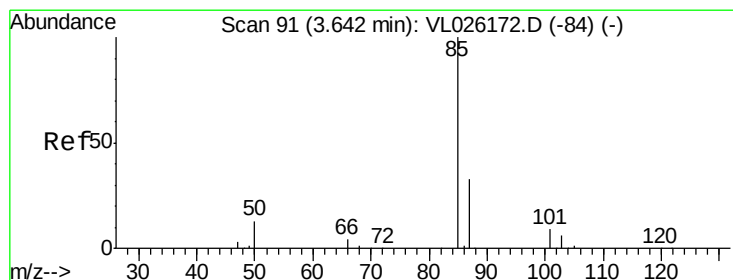
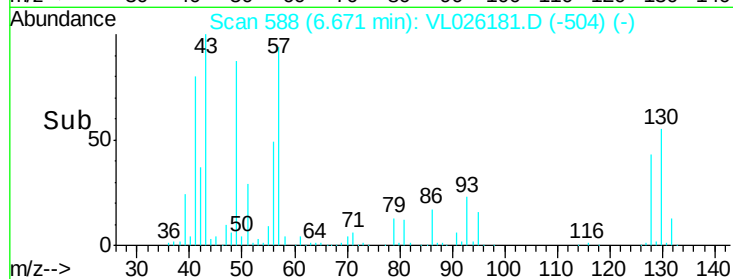
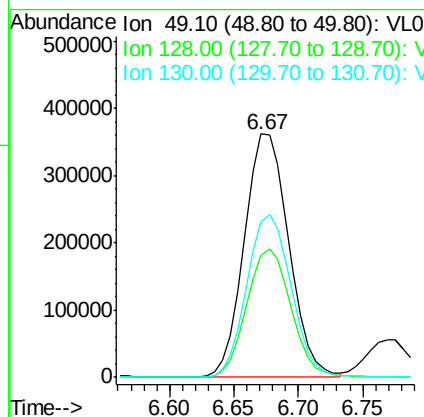
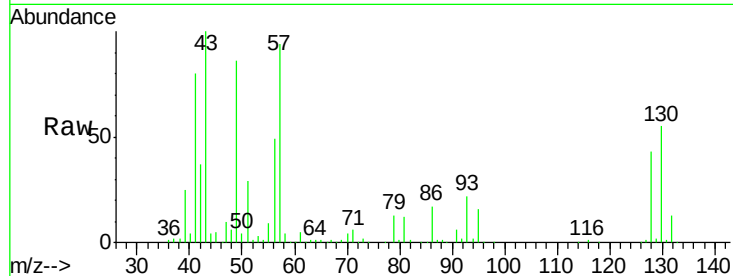
#1
 Bromochloromethane
 Concen: 10.00 ppbv
 RT: 6.67 min Scan# 588
 Delta R.T. 0.01 min
 Lab File: VL026181.D
 Acq: 9 Oct 2015 18:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1009ABS01

Tot Ion: 49 Resp: 868537
 Ion Ratio Lower Upper
 49 100
 128 52.9 26.3 78.8
 130 67.5 34.2 102.5

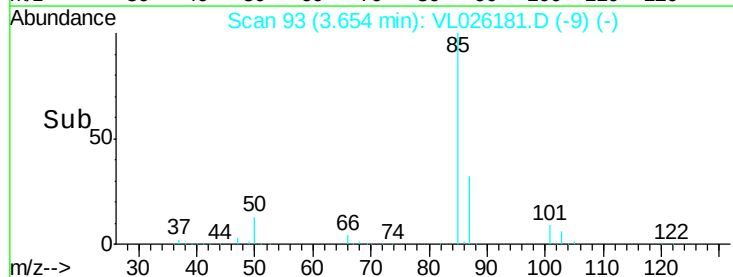
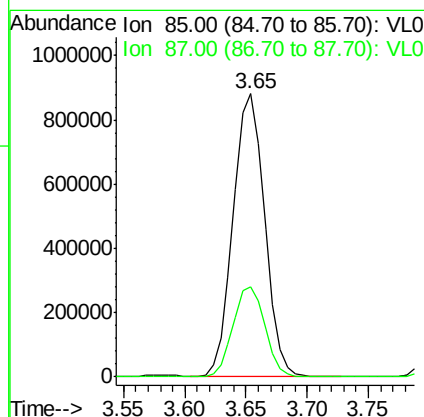
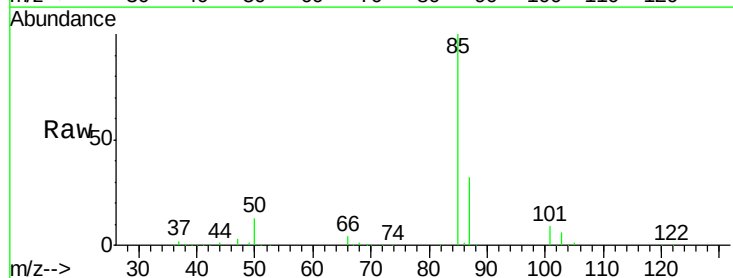
Manual Integrations
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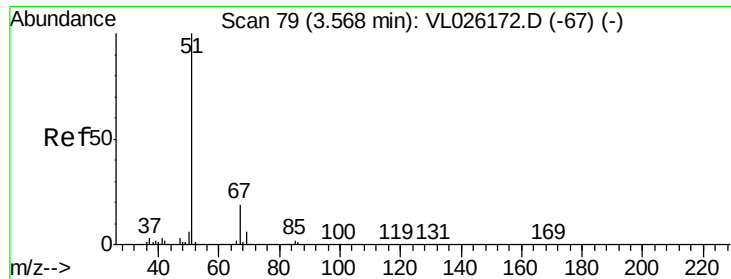
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#2
 Dichlorodifluoromethane
 Concen: 9.64 ppbv
 RT: 3.65 min Scan# 93
 Delta R.T. 0.01 min
 Lab File: VL026181.D
 Acq: 9 Oct 2015 18:11

Tgt Ion: 85 Resp: 1569484
 Ion Ratio Lower Upper
 85 100
 87 31.9 26.2 39.4





#3

Chlorodifluoromethane

Concen: 8.24 ppbv

RT: 3.58 min Scan# 81

Delta R.T. 0.01 min

Lab File: VL026181.D

Acq: 9 Oct 2015 18:11

Instrument :

MSVOA_L

ClientSampleId :

VL1009ABS01

Tot Ion: 51 Resp: 836348

Ion Ratio Lower Upper

51 100

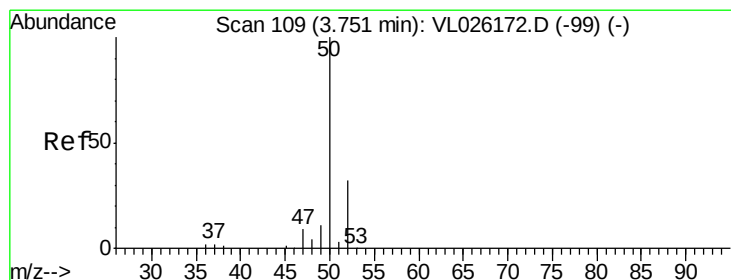
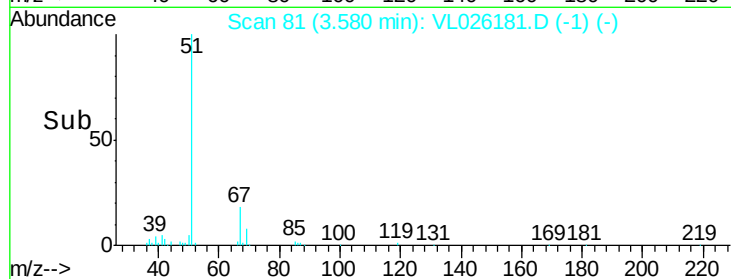
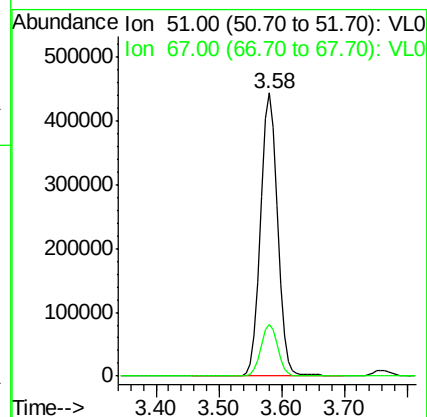
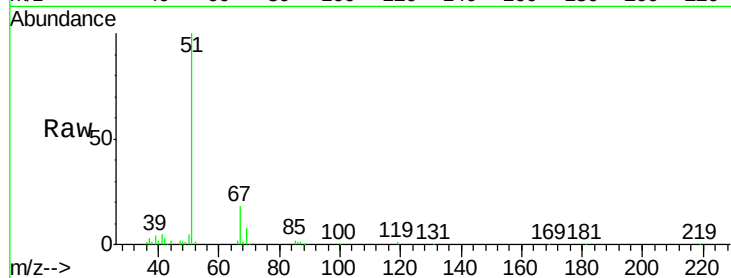
67 18.3 14.9 22.3

Manual Integrations

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#4

Chloromethane

Concen: 9.10 ppbv

RT: 3.76 min Scan# 111

Delta R.T. 0.01 min

Lab File: VL026181.D

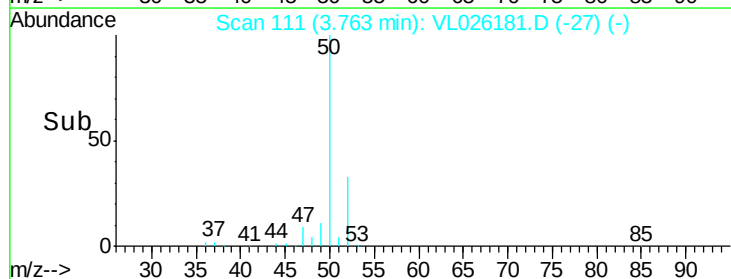
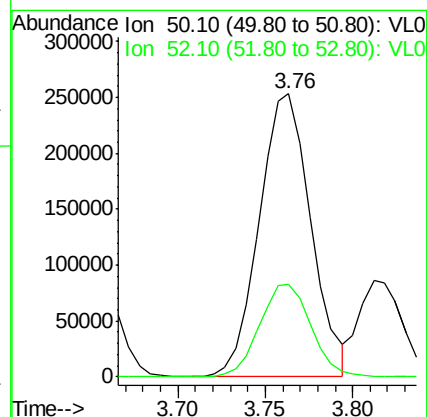
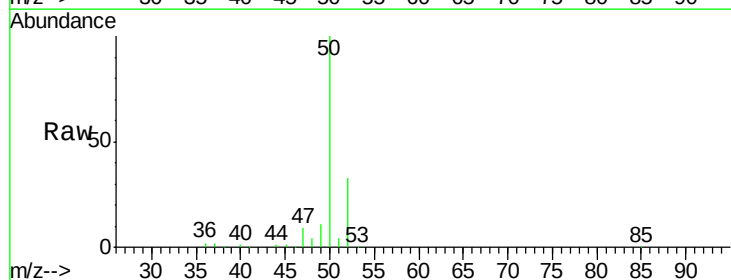
Acq: 9 Oct 2015 18:11

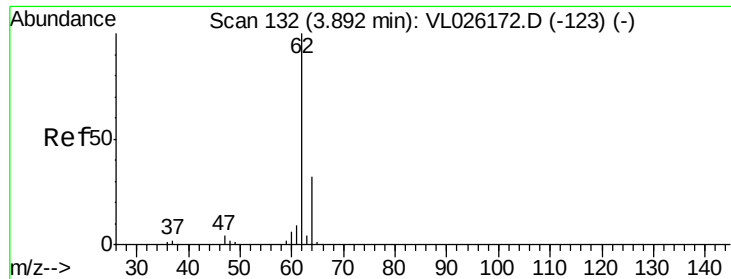
Tgt Ion: 50 Resp: 520676

Ion Ratio Lower Upper

50 100

52 32.8 25.9 38.9





#5

Vinyl Chloride

Concen: 9.27 ppbv

RT: 3.90 min Scan# 133

Delta R.T. 0.01 min

Lab File: VL026181.D

Acq: 9 Oct 2015 18:11

Instrument :

MSVOA_L

ClientSampleId :

VL1009ABS01

Tot Ion: 62 Resp: 534817

Ion Ratio Lower Upper

62 100

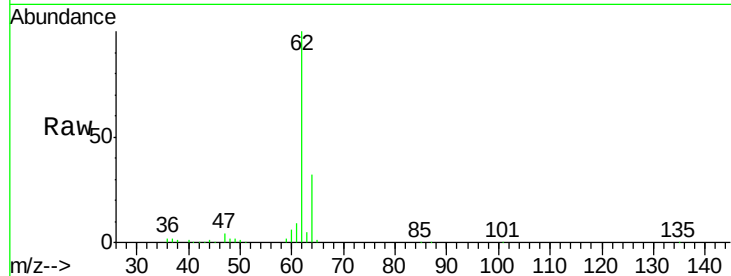
64 31.5 25.6 38.4

Manual Integrations

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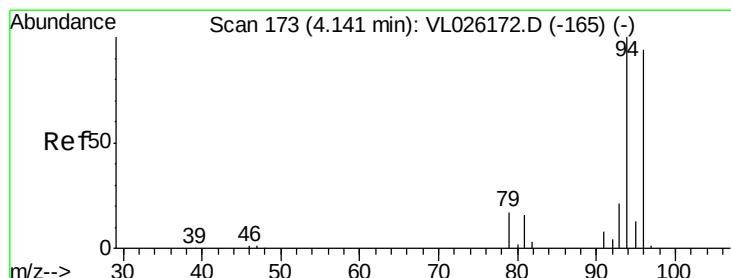
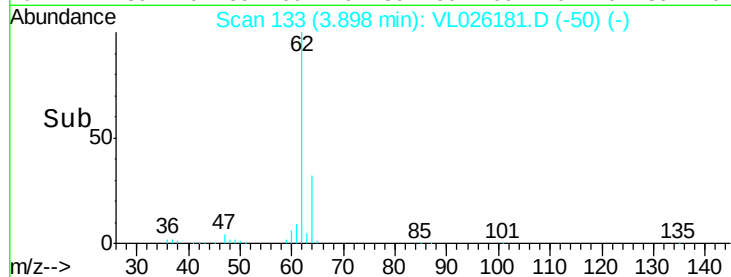
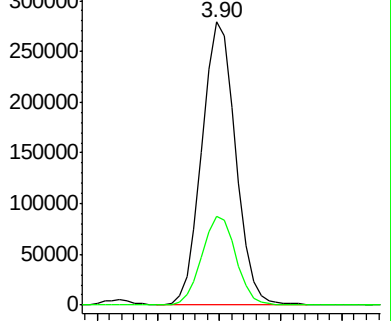
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.73 ppbv

RT: 4.15 min Scan# 175

Delta R.T. 0.01 min

Lab File: VL026181.D

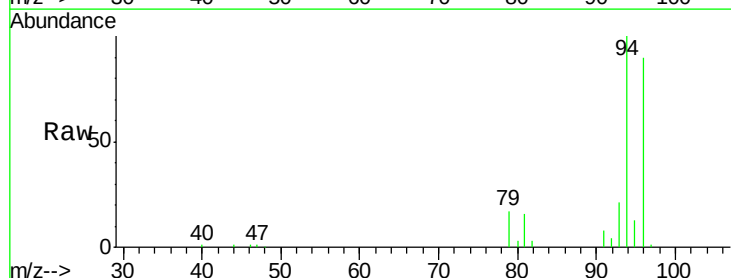
Acq: 9 Oct 2015 18:11

Tgt Ion: 94 Resp: 404085

Ion Ratio Lower Upper

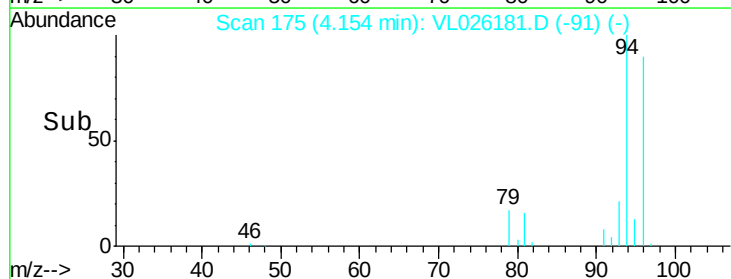
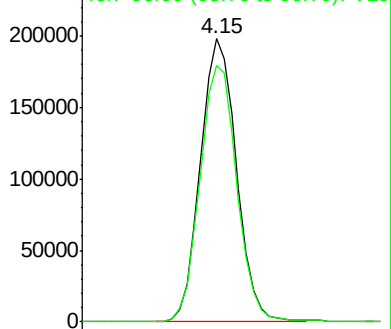
94 100

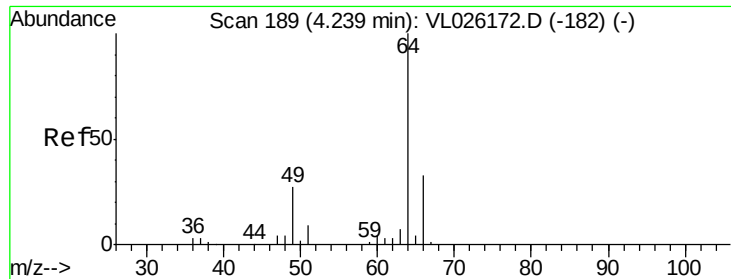
96 90.5 75.4 113.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.17 ppbv

RT: 4.25 min Scan# 191

Delta R.T. 0.01 min

Lab File: VL026181.D

Acq: 9 Oct 2015 18:11

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VL1009ABS01

Tot Ion: 64 Resp: 229737

Ion Ratio Lower Upper

64 100

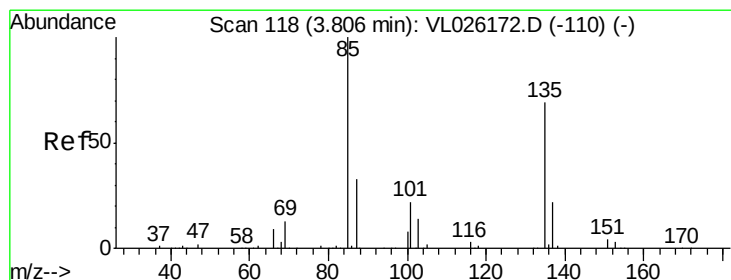
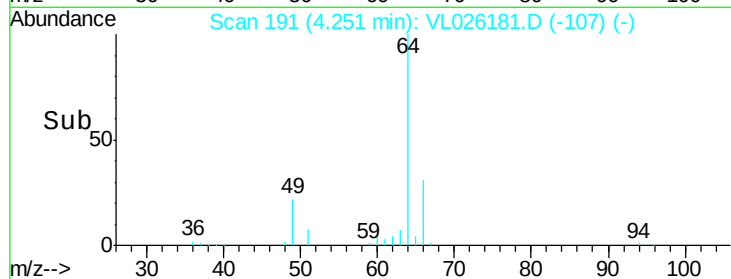
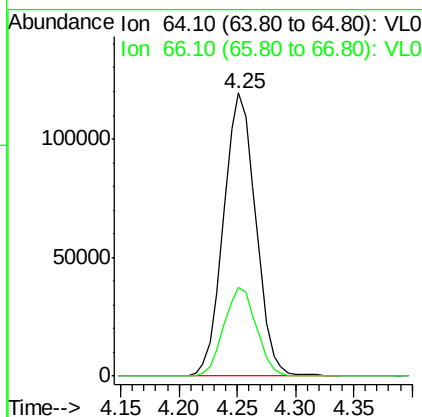
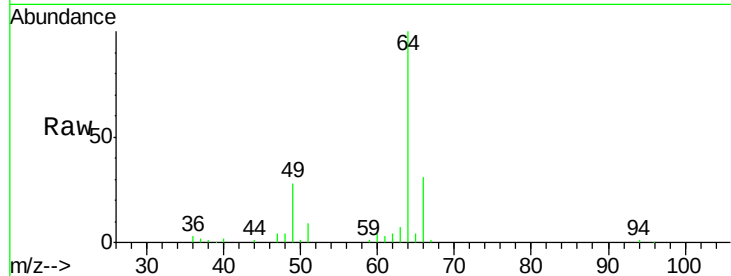
66 31.3 26.5 39.7

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 9.01 ppbv

RT: 3.82 min Scan# 120

Delta R.T. 0.01 min

Lab File: VL026181.D

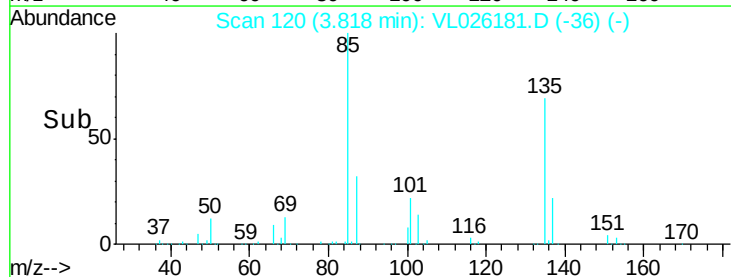
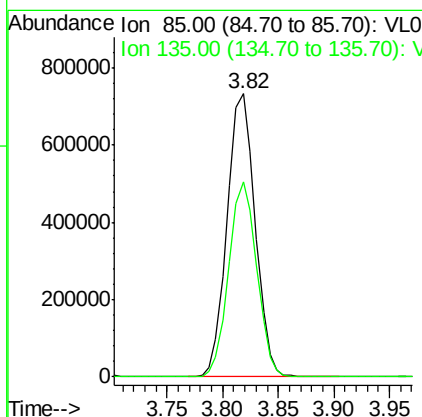
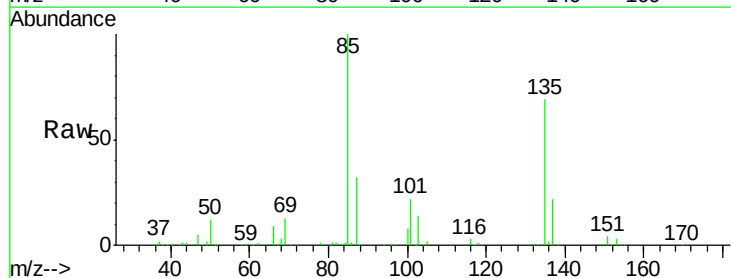
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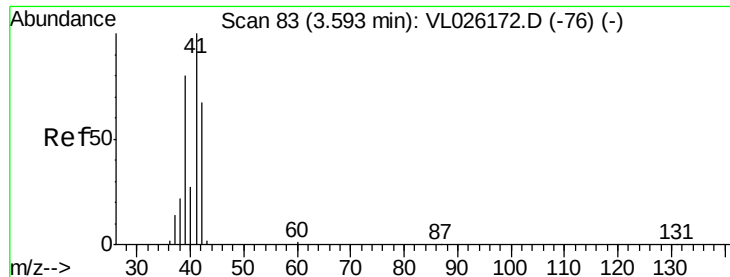
Tgt Ion: 85 Resp: 1280786

Ion Ratio Lower Upper

85 100

135 69.2 55.3 82.9





#9

Propene

Concen: 9.02 ppbv

RT: 3.60 min Scan# 85

Delta R.T. 0.01 min

Lab File: VL026181.D

Acq: 9 Oct 2015 18:11

Instrument :

MSVOA_L

ClientSampleId :

VL1009ABS01

Tot Ion: 41 Resp: 419937

Ion Ratio Lower Upper

41 100

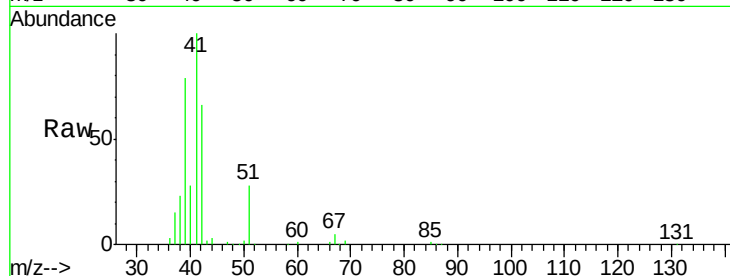
42 67.7 53.6 80.4

Manual Integrations

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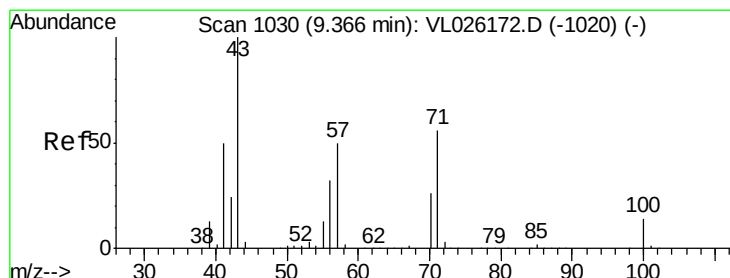
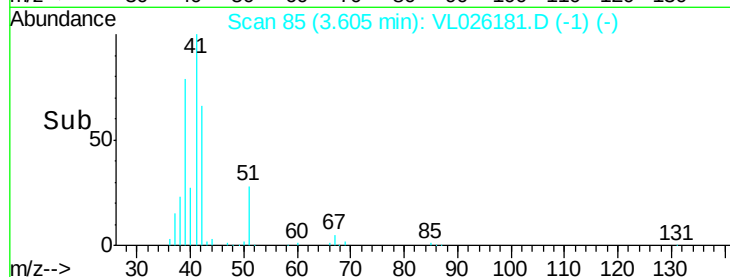
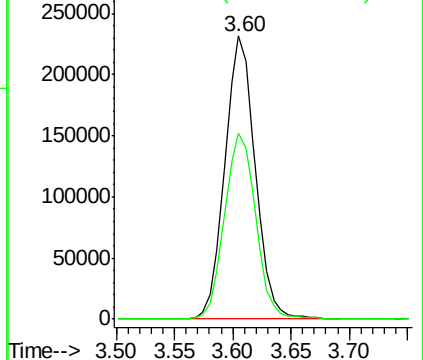
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 9.37 ppbv

RT: 9.38 min Scan# 1032

Delta R.T. 0.01 min

Lab File: VL026181.D

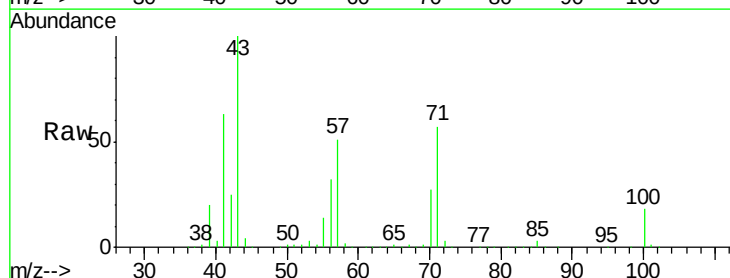
Acq: 9 Oct 2015 18:11

Tgt Ion: 43 Resp: 1516505

Ion Ratio Lower Upper

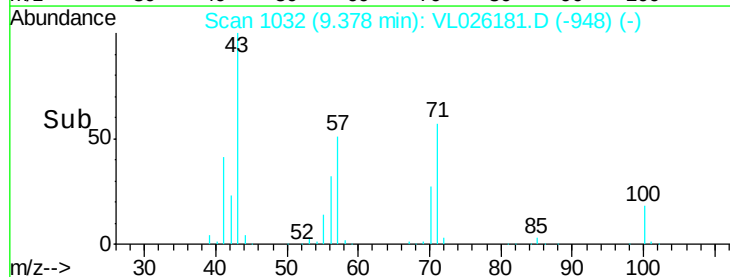
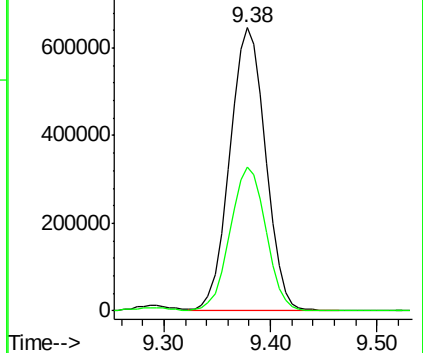
43 100

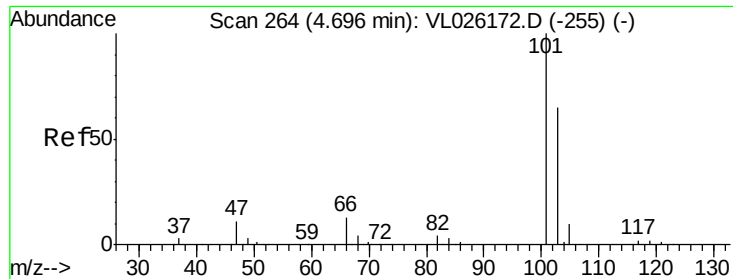
57 52.0 41.8 62.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





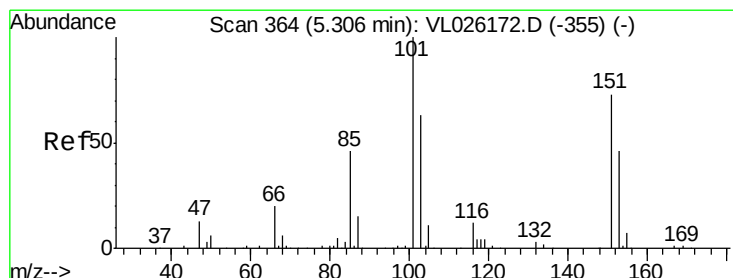
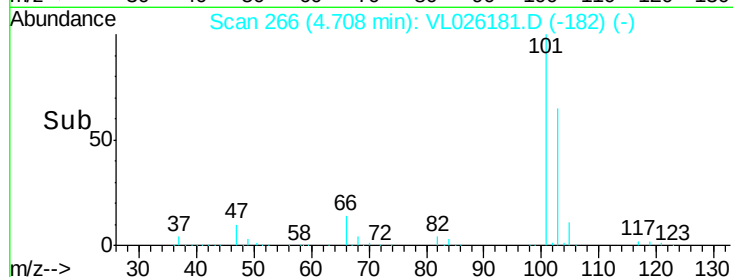
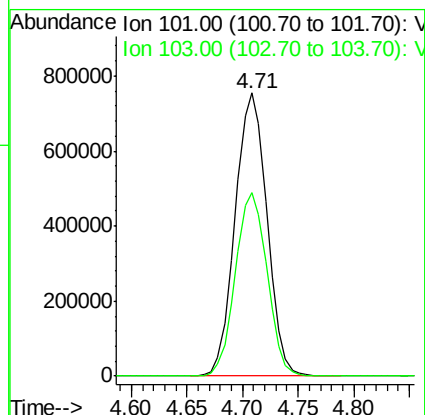
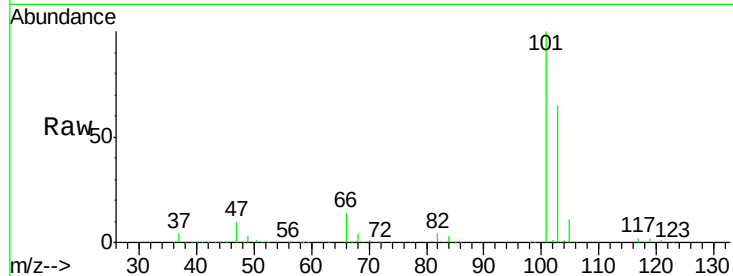
#11
 Trichlorofluoromethane
 Concen: 9.36 ppbv
 RT: 4.71 min Scan# 266
 Delta R.T. 0.01 min
 Lab File: VL026181.D
 Acq: 9 Oct 2015 18:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1009ABS01

Tot Ion:101 Resp: 1496520
 Ion Ratio Lower Upper
 101 100
 103 65.0 51.9 77.9

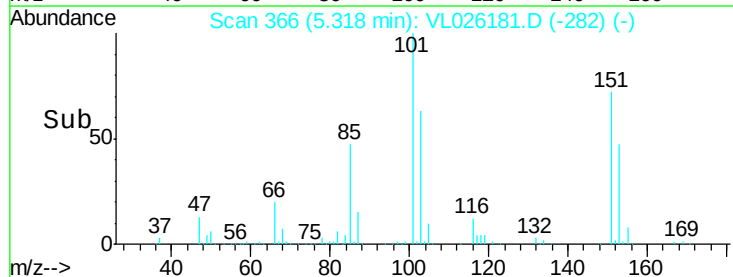
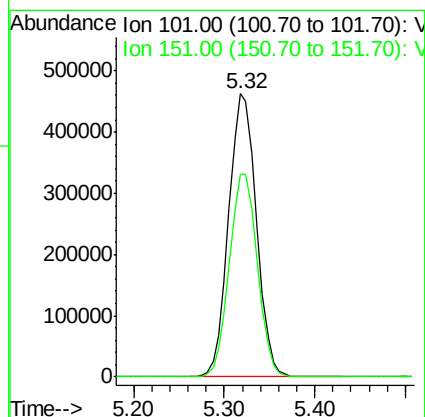
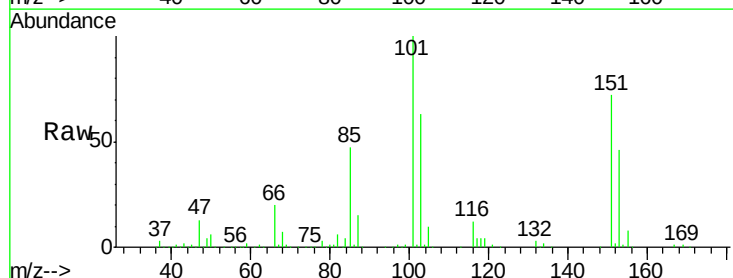
Manual Integrations
 APPROVED

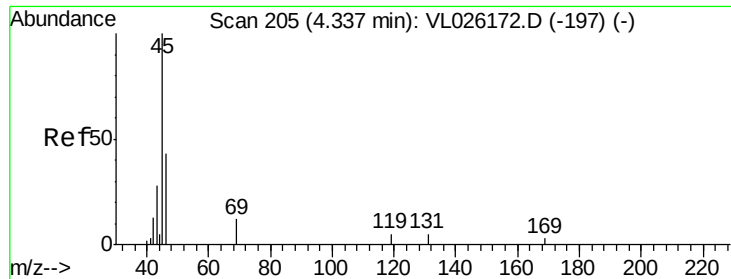
MMdadoda
 10/12/2015 1:24:21 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.09 ppbv
 RT: 5.32 min Scan# 366
 Delta R.T. 0.01 min
 Lab File: VL026181.D
 Acq: 9 Oct 2015 18:11

Tgt Ion:101 Resp: 983710
 Ion Ratio Lower Upper
 101 100
 151 72.8 59.0 88.6





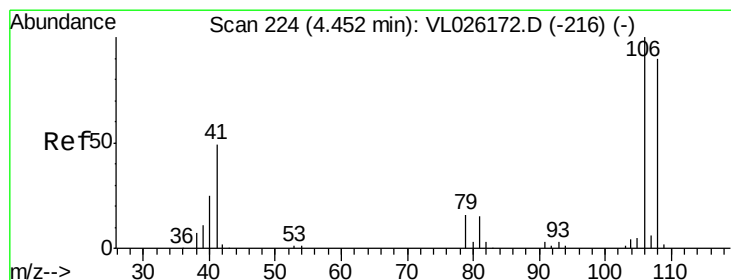
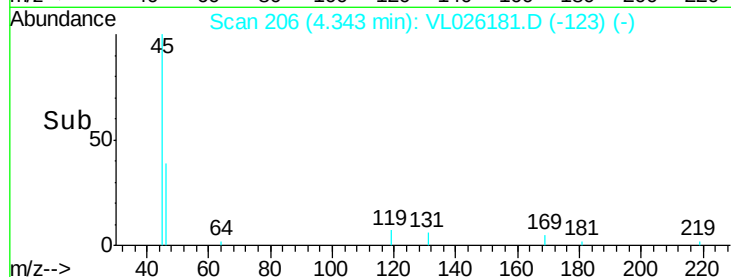
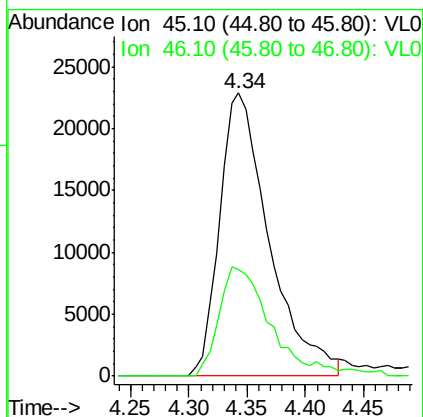
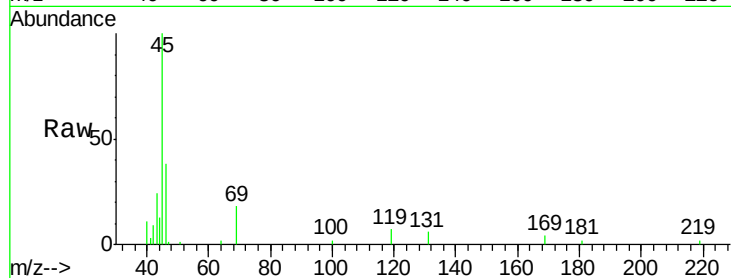
#13
Ethanol
Concen: 9.88 ppbv
RT: 4.34 min Scan# 206
Delta R.T. 0.01 min
Lab File: VL026181.D
Acq: 9 Oct 2015 18:11

Instrument :
MSVOA_L
ClientSampleId :
VL1009ABS01

Tot Ion: 45 Resp: 67703
Ion Ratio Lower Upper
45 100
46 41.0 18.1 72.5

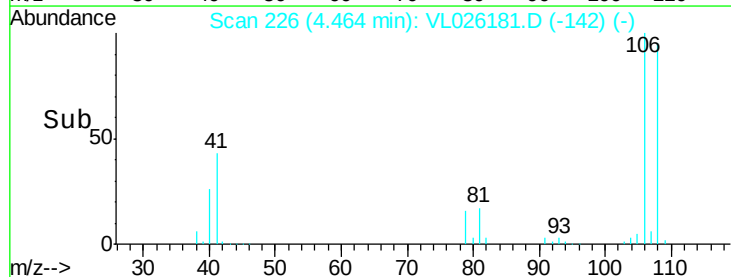
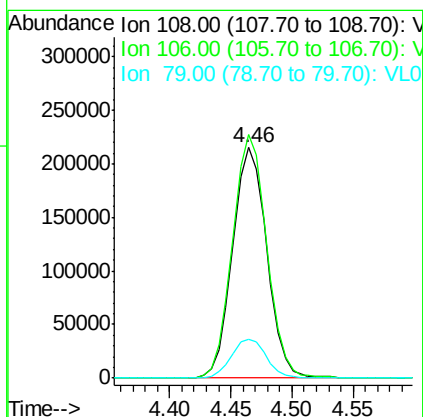
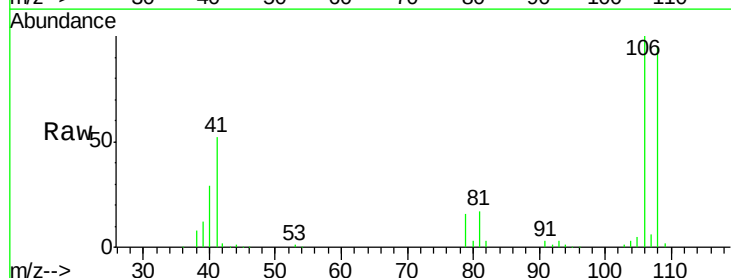
Manual Integrations
APPROVED

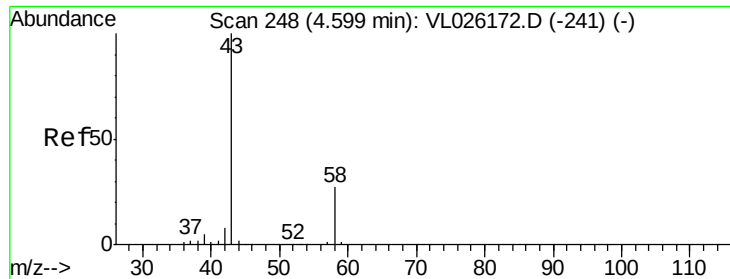
MMdadoda
10/12/2015 1:24:21 PM



#14
Bromoethene
Concen: 9.36 ppbv
RT: 4.46 min Scan# 226
Delta R.T. 0.01 min
Lab File: VL026181.D
Acq: 9 Oct 2015 18:11

Tgt Ion: 108 Resp: 417558
Ion Ratio Lower Upper
108 100
106 106.2 85.9 128.9
79 17.8 14.0 21.0





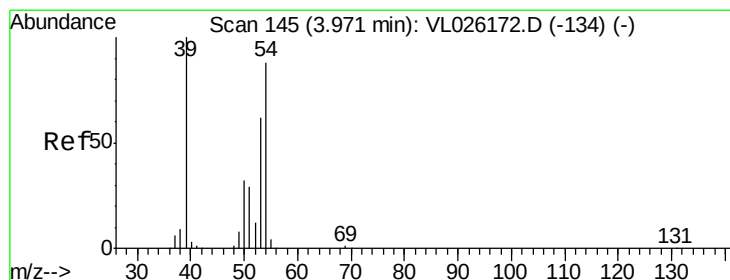
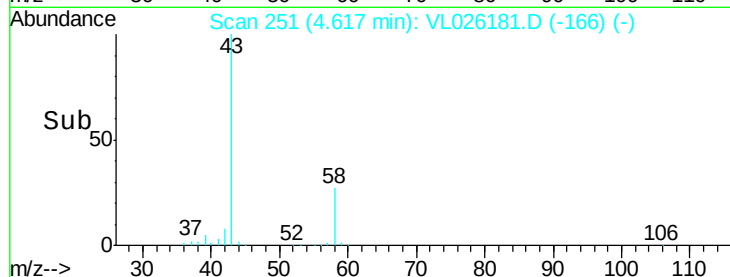
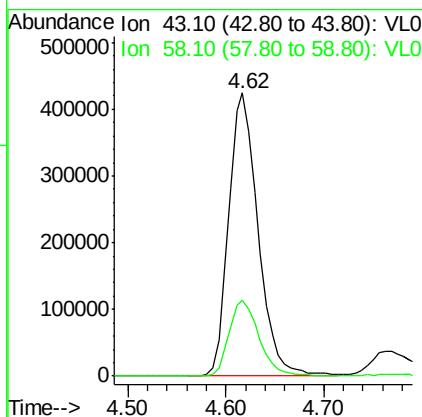
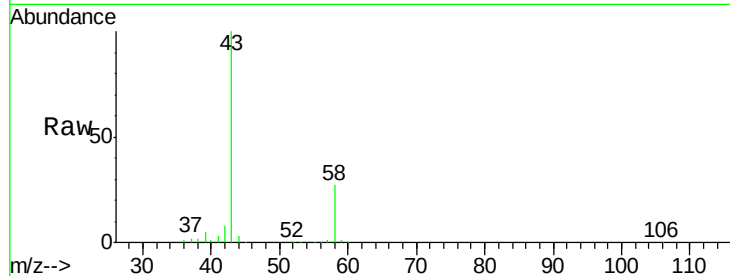
#15
Acetone
Concen: 7.89 ppbv
RT: 4.62 min Scan# 251
Delta R.T. 0.02 min
Lab File: VL026181.D
Acq: 9 Oct 2015 18:11

Instrument :
MSVOA_L
ClientSampleId :
VL1009ABS01

Tot Ion: 43 Resp: 885892
Ion Ratio Lower Upper
43 100
58 27.5 22.0 33.0

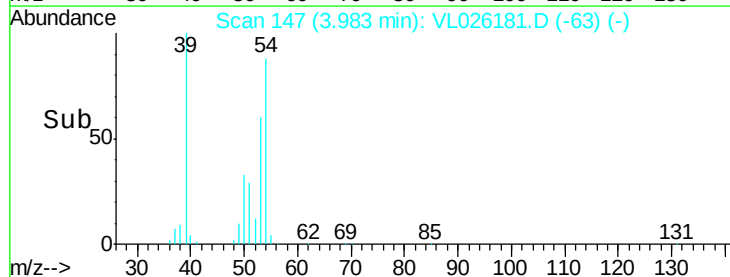
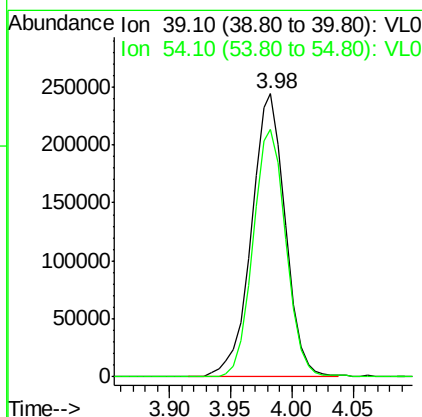
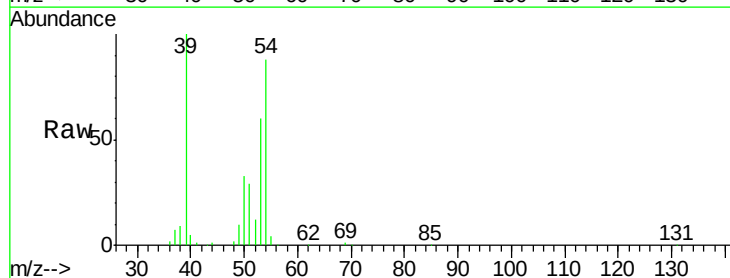
Manual Integrations
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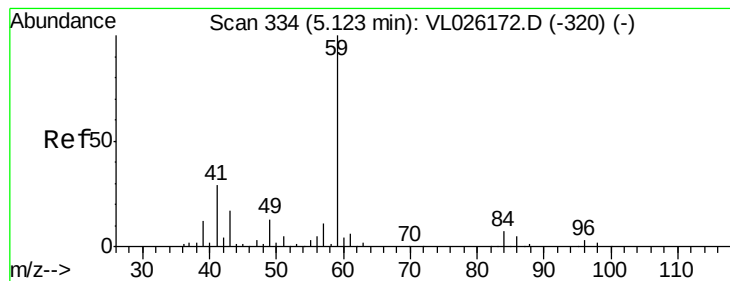
MMdadoda
10/12/2015 1:24:21 PM



#16
1,3-Butadiene
Concen: 9.07 ppbv
RT: 3.98 min Scan# 147
Delta R.T. 0.01 min
Lab File: VL026181.D
Acq: 9 Oct 2015 18:11

Tgt Ion: 39 Resp: 470831
Ion Ratio Lower Upper
39 100
54 85.0 67.9 101.9





#17

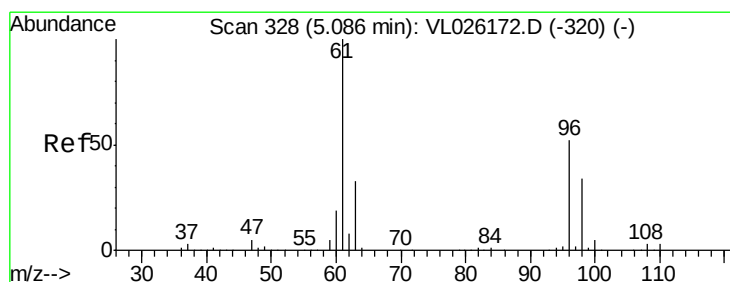
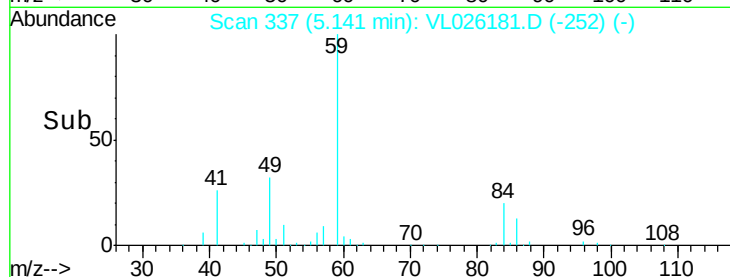
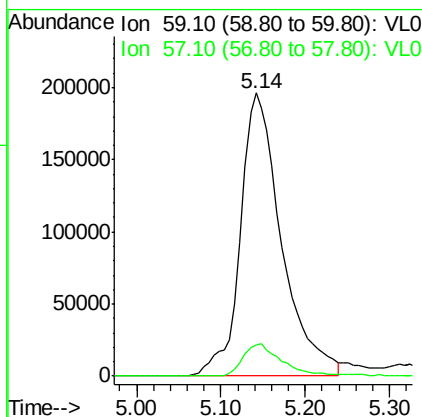
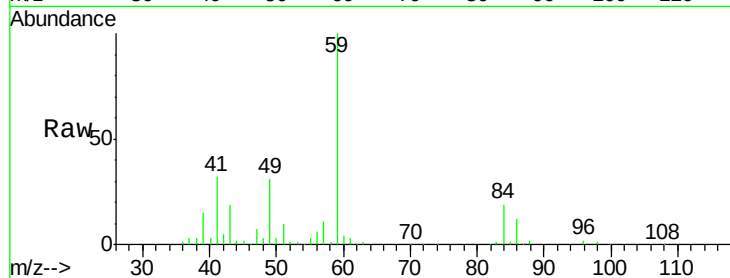
tert-Butyl alcohol
Concen: 9.67 ppbv
RT: 5.14 min Scan# 337
Delta R.T. 0.02 min
Lab File: VL026181.D
Acq: 9 Oct 2015 18:11

Instrument :
MSVOA_L
ClientSampleId :
VL1009ABS01

Tot Ion	59.10	Resp	654091
Ion Ratio	100	Lower	Upper
59	100		
57	11.5	8.8	13.2

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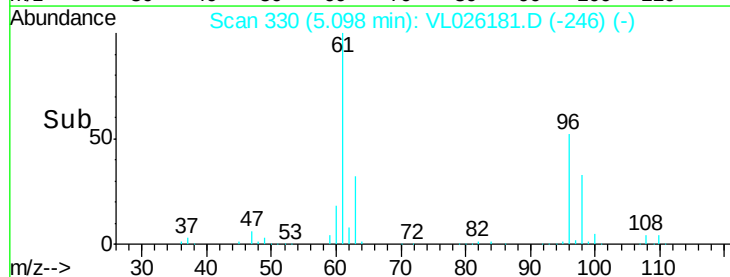
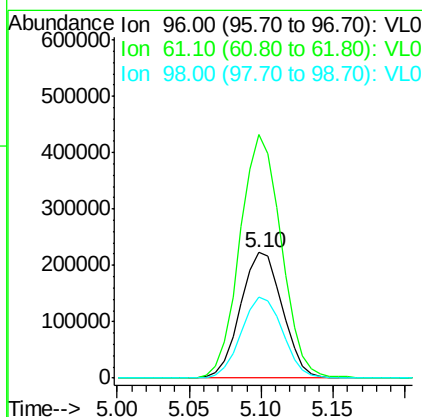
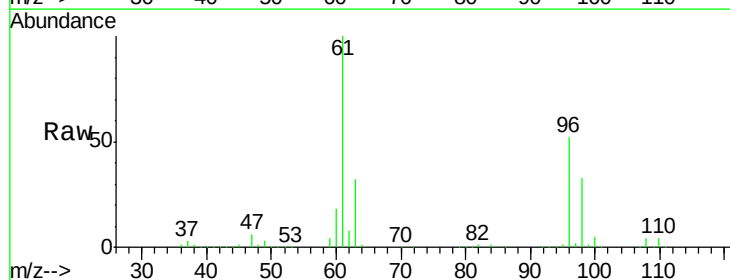
MMdadoda
10/12/2015 1:24:21 PM

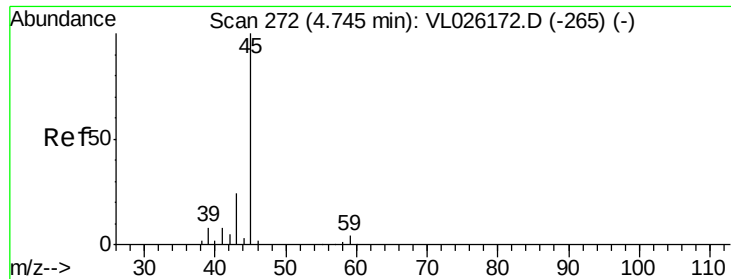


#18

1,1-Dichloroethene
Concen: 9.24 ppbv
RT: 5.10 min Scan# 330
Delta R.T. 0.01 min
Lab File: VL026181.D
Acq: 9 Oct 2015 18:11

Tgt Ion	96.00	Resp	452570
Ion Ratio	100	Lower	Upper
96	100		
61	193.6	153.2	229.8
98	64.5	52.1	78.1





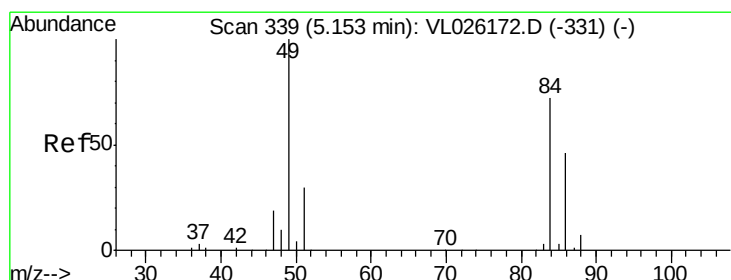
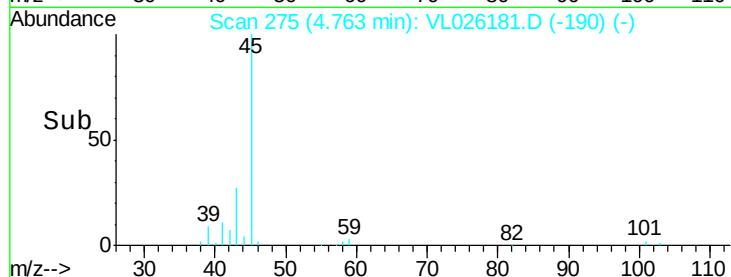
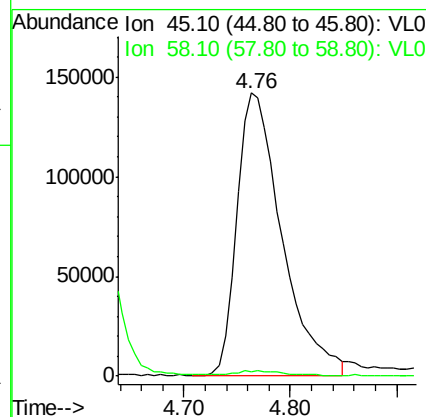
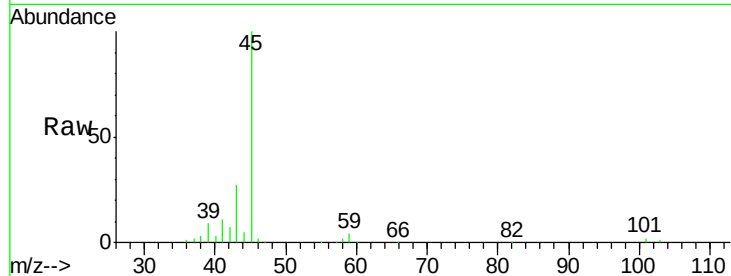
#19
Isopropyl Alcohol
Concen: 9.55 ppbv
RT: 4.76 min Scan# 275
Delta R.T. 0.02 min
Lab File: VL026181.D
Acq: 9 Oct 2015 18:11

Instrument :
MSVOA_L
ClientSampleId :
VL1009ABS01

Tot Ion: 45 Resp: 417795
Ion Ratio Lower Upper
45 100
58 2.7 1.7 2.5#

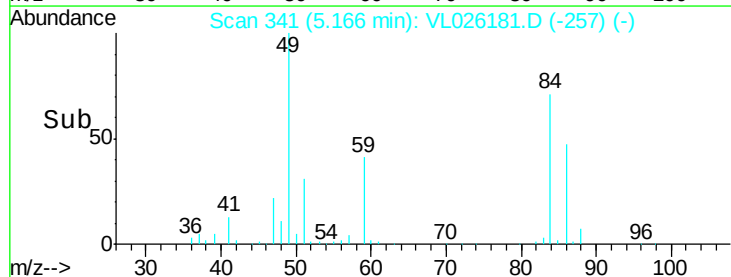
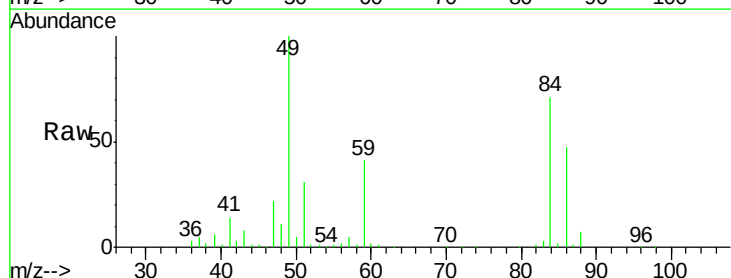
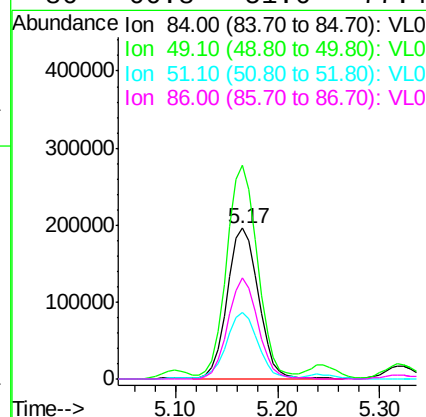
Manual Integrations
APPROVED

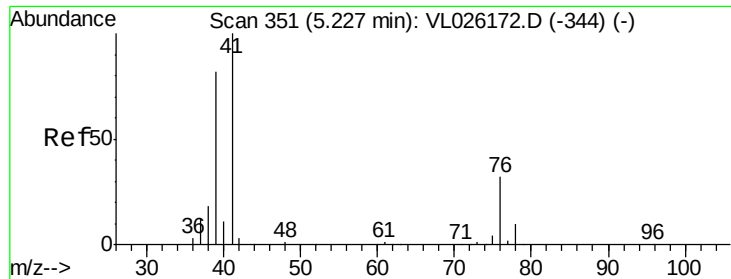
MMdadoda
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#20
Methylene Chloride
Concen: 8.79 ppbv
RT: 5.17 min Scan# 341
Delta R.T. 0.01 min
Lab File: VL026181.D
Acq: 9 Oct 2015 18:11

Tgt Ion: 84 Resp: 420121
Ion Ratio Lower Upper
84 100
49 139.8 111.3 166.9
51 43.5 33.0 49.6
86 66.8 51.6 77.4





#21

Allvl Chloride

Concen: 9.35 ppbv

RT: 5.24 min Scan# 354

Delta R.T. 0.02 min

Lab File: VL026181.D

Acq: 9 Oct 2015 18:11

Instrument :

MSVOA_L

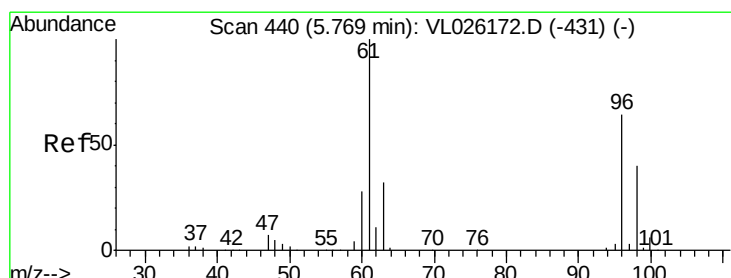
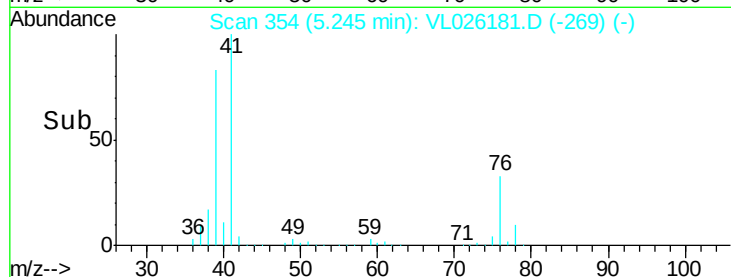
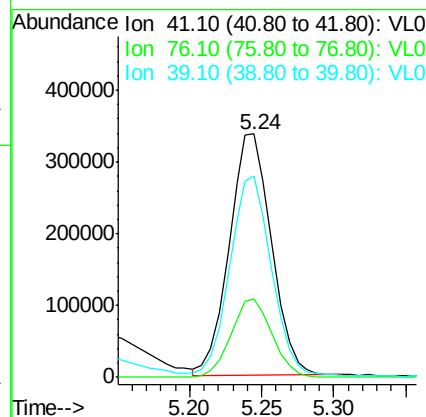
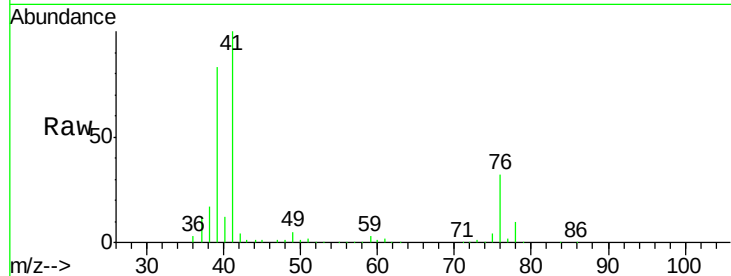
ClientSampleId :

VL1009ABS01

Tot Ion:	41	Resp:	685396
Ion Ratio	Lower	Upper	
41	100		
76	31.8	25.4	38.2
39	83.5	66.5	99.7

Manual Integrations
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MMdadoda
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#22

trans-1,2-Dichloroethene

Concen: 9.25 ppbv

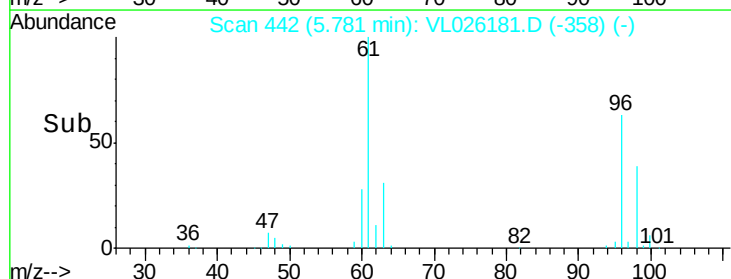
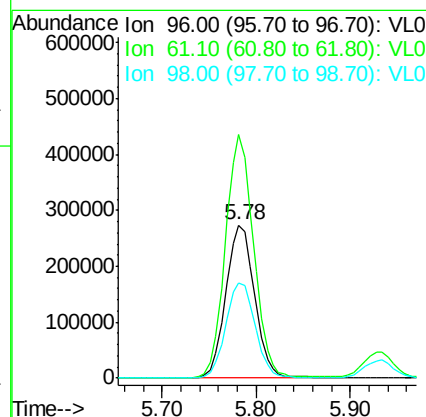
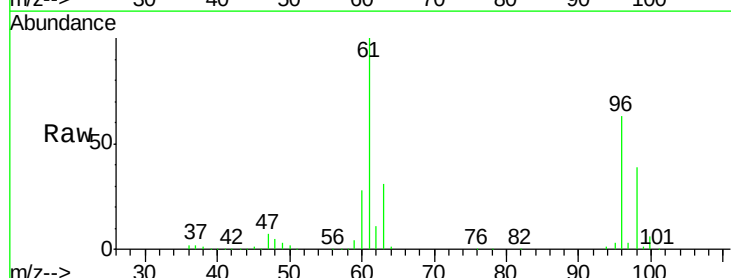
RT: 5.78 min Scan# 442

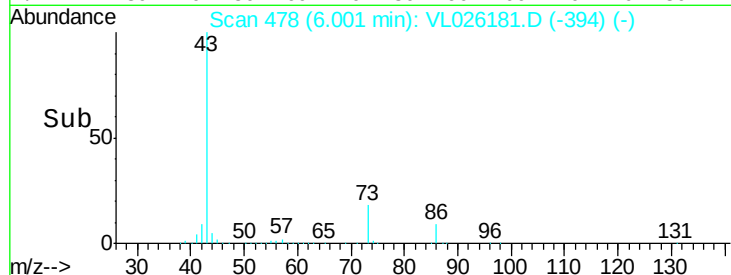
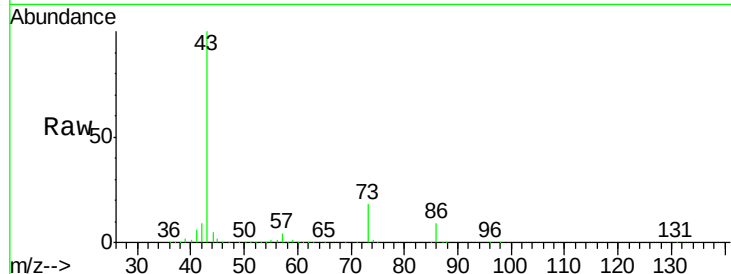
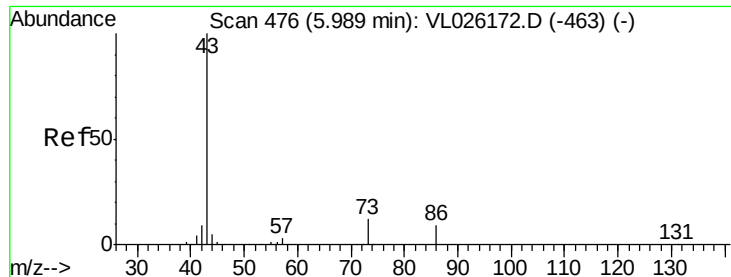
Delta R.T. 0.01 min

Lab File: VL026181.D

Acq: 9 Oct 2015 18:11

Tgt Ion:	96	Resp:	580582
Ion Ratio	Lower	Upper	
96	100		
61	159.3	125.8	188.6
98	62.3	50.6	75.8





#23

Vinyl Acetate

Concen: 9.28 ppbv

RT: 6.00 min Scan# 478

Delta R.T. 0.01 min

Lab File: VL026181.D

Acq: 9 Oct 2015 18:11

Tot Ion: 43 Resp: 1844301

Ion	Ratio	Lower	Upper
43	100		
86	8.5	7.2	10.8
42	9.0	7.4	11.2
44	4.8	3.9	5.9

Instrument :

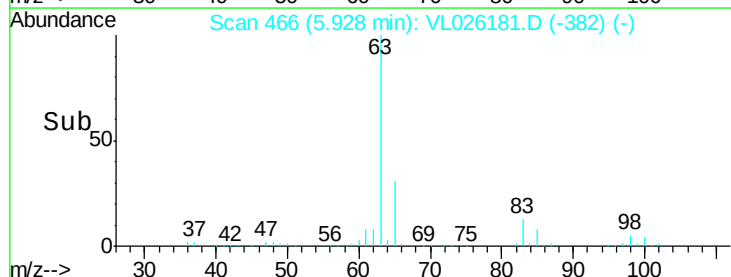
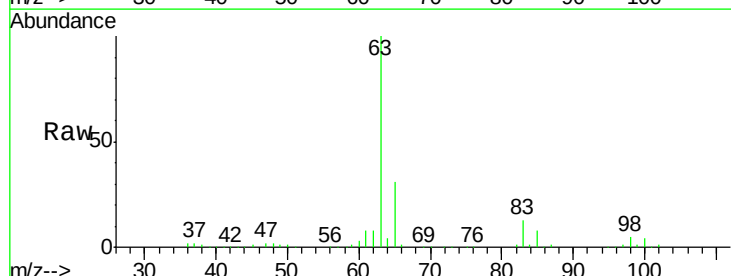
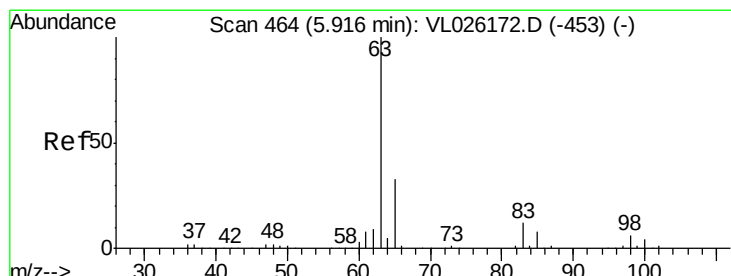
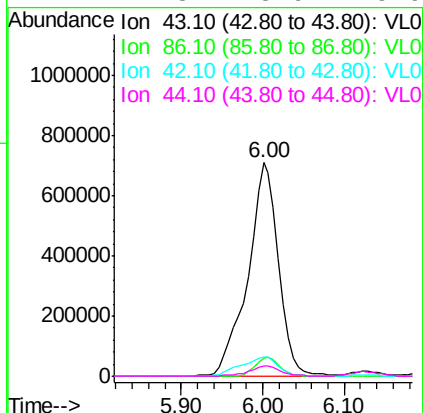
MSVOA_L

ClientSampleId :

VL1009ABS01

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#24

1,1-Dichloroethane

Concen: 9.16 ppbv

RT: 5.93 min Scan# 466

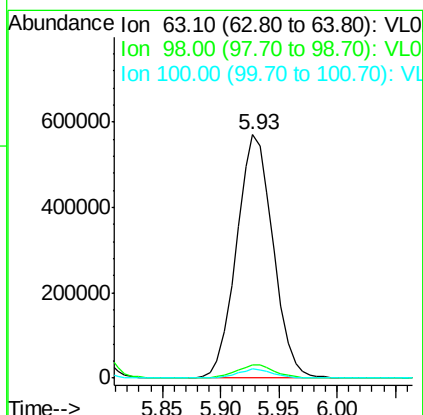
Delta R.T. 0.01 min

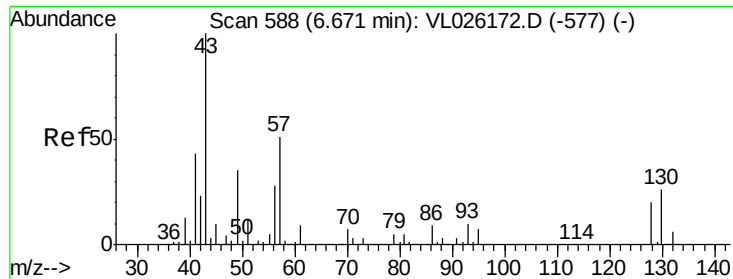
Lab File: VL026181.D

Acq: 9 Oct 2015 18:11

Tgt Ion: 63 Resp: 1241339

Ion	Ratio	Lower	Upper
63	100		
98	5.4	2.9	8.7
100	3.7	1.8	5.5





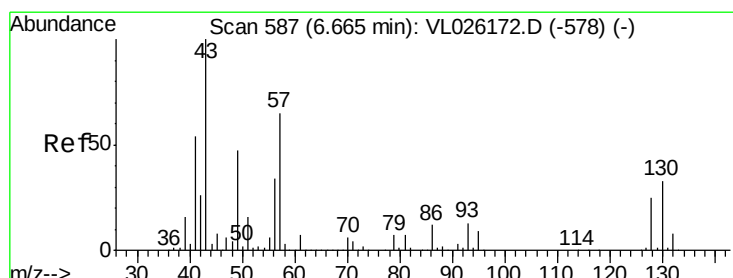
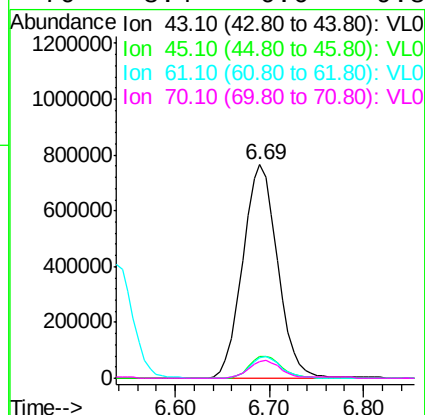
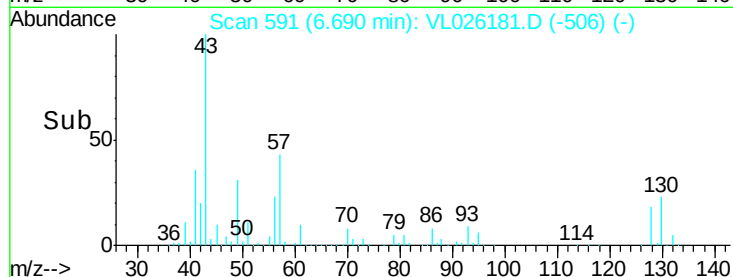
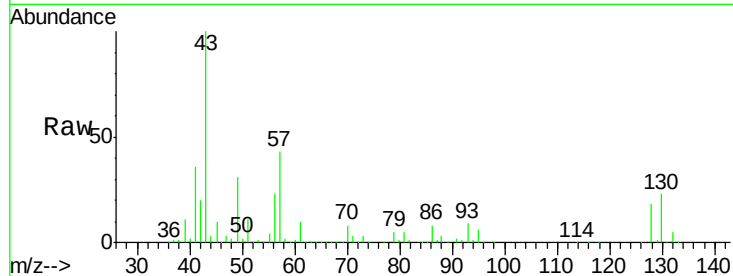
#25
Ethyl Acetate
Concen: 9.05 ppbv
RT: 6.69 min Scan# 591
Delta R.T. 0.02 min
Lab File: VL026181.D
Acq: 9 Oct 2015 18:11

Instrument :
MSVOA_L
ClientSampleId :
VL1009ABS01

Tot Ion	43	Resp	1964209
Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.7	11.5
61	9.3	7.4	11.2
70	8.4	6.6	9.8

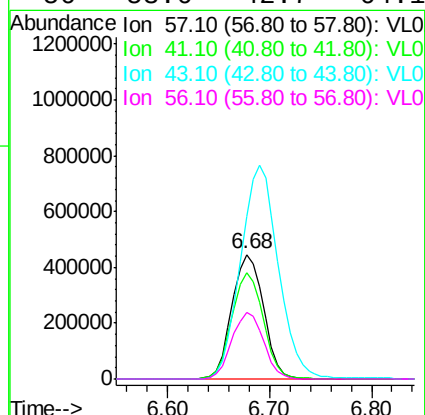
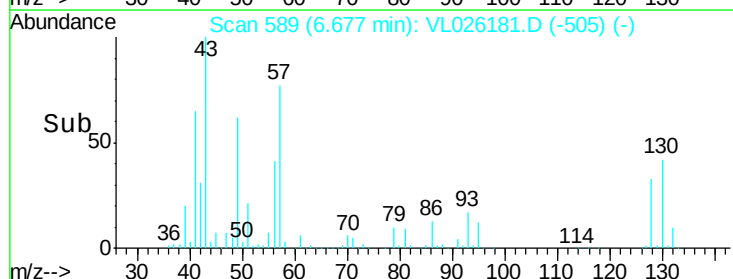
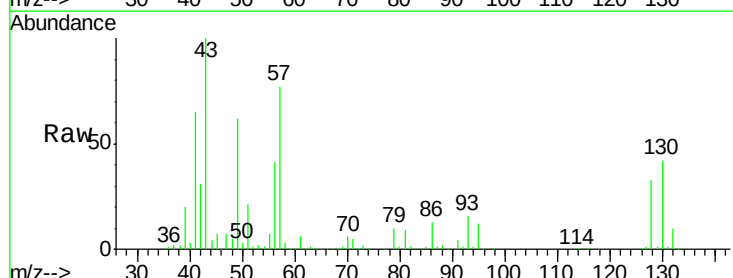
Manual Integrations
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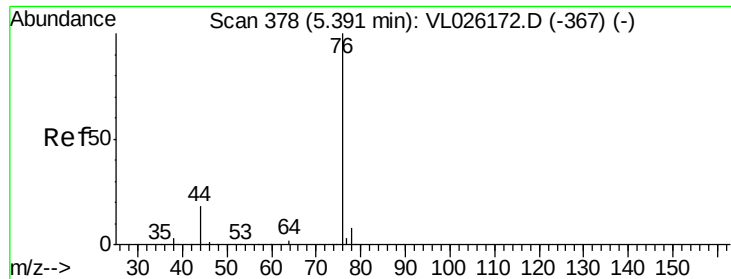
MMdadoda
10/12/2015 1:24:21 PM



#26
Hexane
Concen: 9.11 ppbv
RT: 6.68 min Scan# 589
Delta R.T. 0.01 min
Lab File: VL026181.D
Acq: 9 Oct 2015 18:11

Tgt Ion	57	Resp	958240
Ion	Ratio	Lower	Upper
57	100		
41	85.9	68.0	102.0
43	207.0	164.4	246.6
56	53.6	42.7	64.1





#27

Carbon Disulfide

Concen: 10.02 ppbv

RT: 5.40 min Scan# 380

Delta R.T. 0.01 min

Lab File: VL026181.D

Acq: 9 Oct 2015 18:11

Instrument :

MSVOA_L

ClientSampleId :

VL1009ABS01

Tot Ion: 76 Resp: 1262642

Ion Ratio Lower Upper

76 100

44 18.5 14.2 21.4

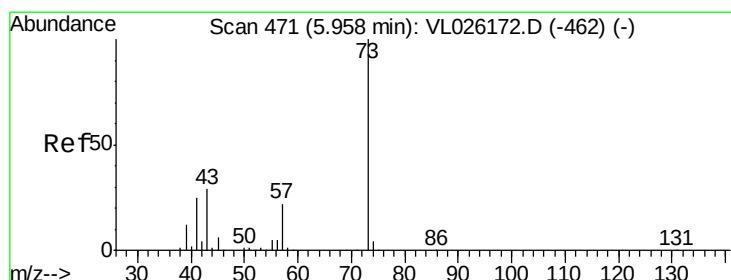
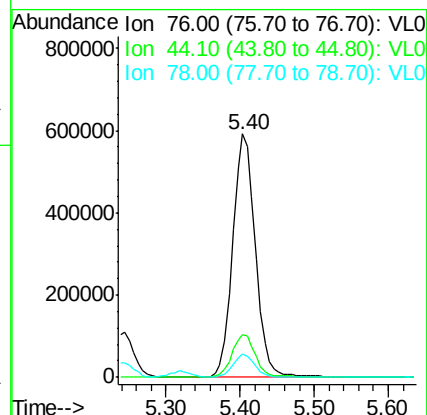
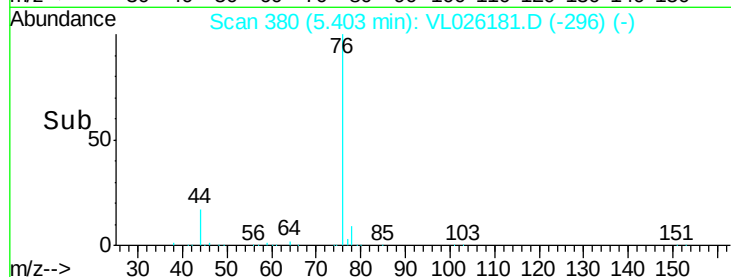
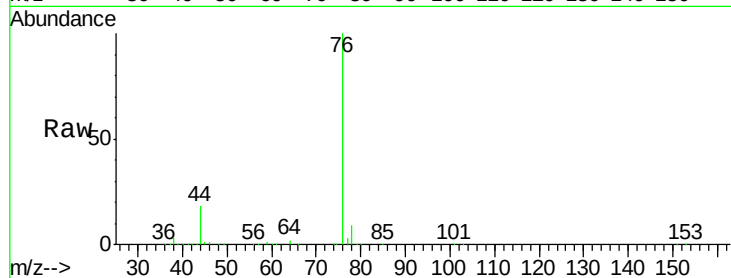
78 9.4 7.5 11.3

Manual Integrations

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#28

Methyl tert-Butyl Ether

Concen: 9.43 ppbv

RT: 5.97 min Scan# 473

Delta R.T. 0.01 min

Lab File: VL026181.D

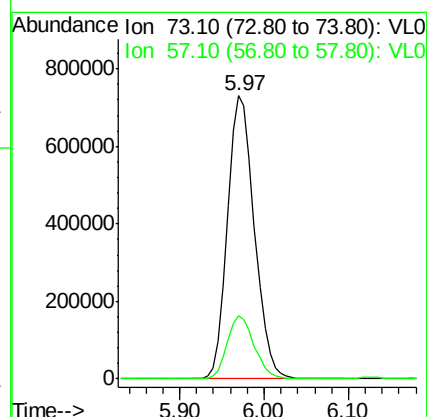
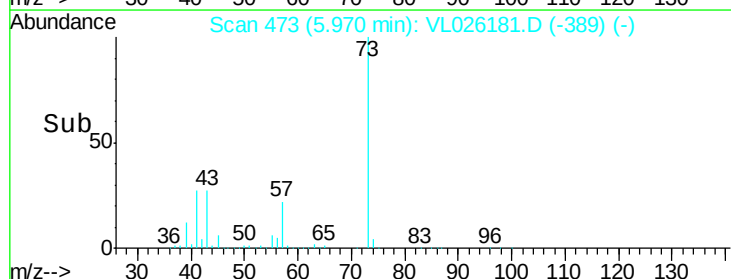
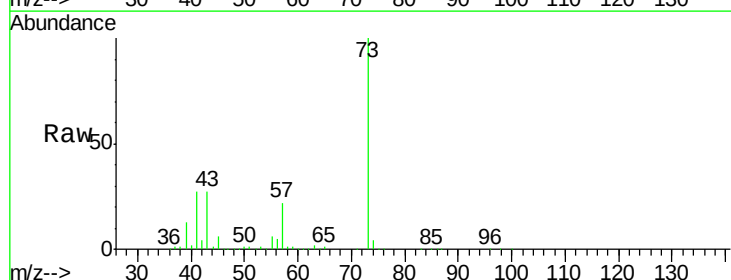
Acq: 9 Oct 2015 18:11

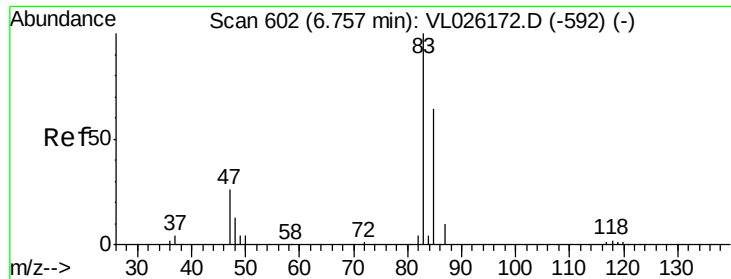
Tgt Ion: 73 Resp: 1597744

Ion Ratio Lower Upper

73 100

57 22.6 17.8 26.6





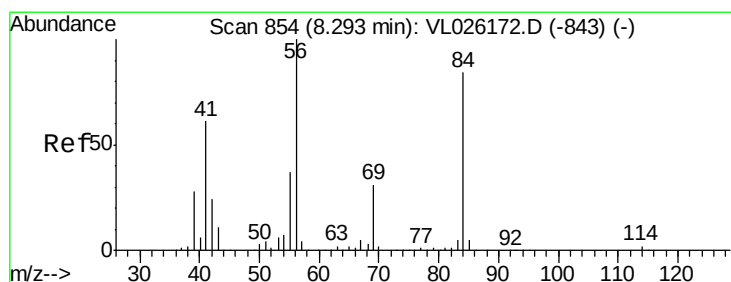
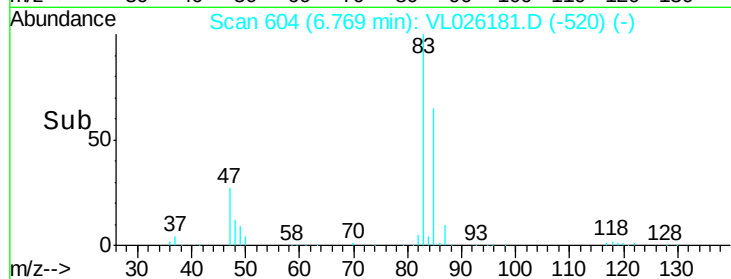
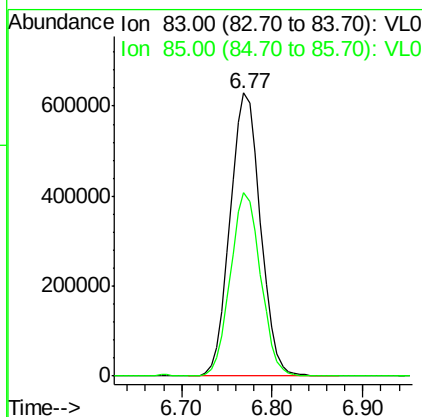
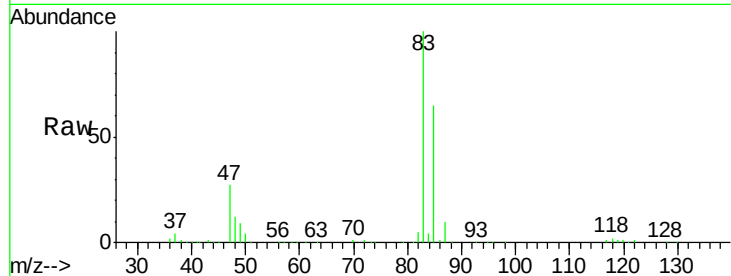
#29
Chloroform
Concen: 9.39 ppbv
RT: 6.77 min Scan# 604
Delta R.T. 0.01 min
Lab File: VL026181.D
Acq: 9 Oct 2015 18:11

Instrument :
MSVOA_L
ClientSampleId :
VL1009ABS01

Tot Ion: 83 Resp: 1463982
Ion Ratio Lower Upper
83 100
85 64.8 51.5 77.3

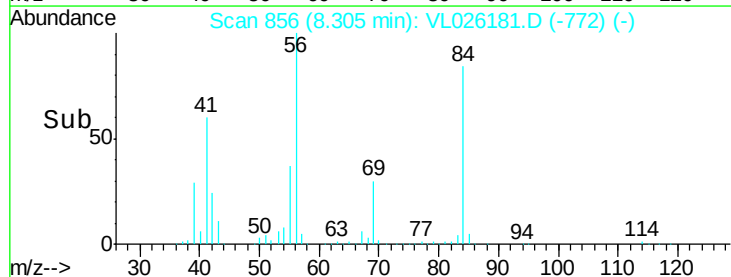
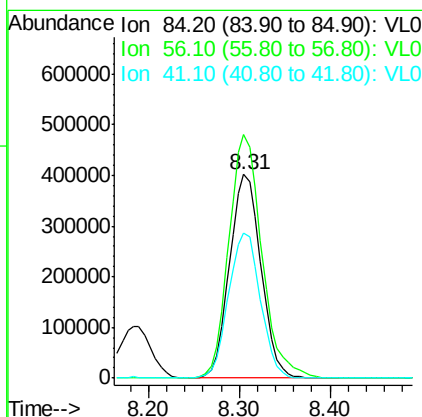
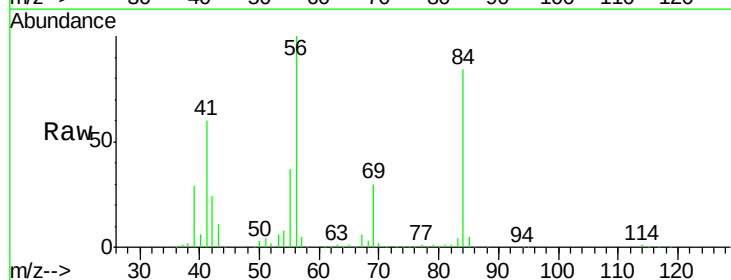
Manual Integrations
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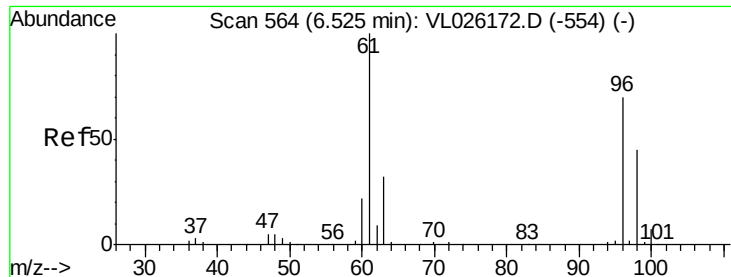
MMdadoda
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#30
Cyclohexane
Concen: 9.66 ppbv
RT: 8.31 min Scan# 856
Delta R.T. 0.01 min
Lab File: VL026181.D
Acq: 9 Oct 2015 18:11

Tgt Ion: 84 Resp: 967976
Ion Ratio Lower Upper
84 100
56 125.6 99.8 149.8
41 72.6 58.1 87.1





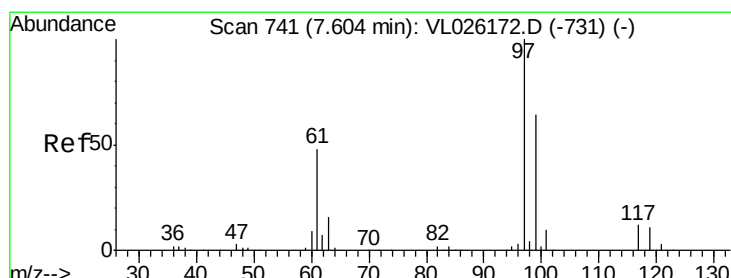
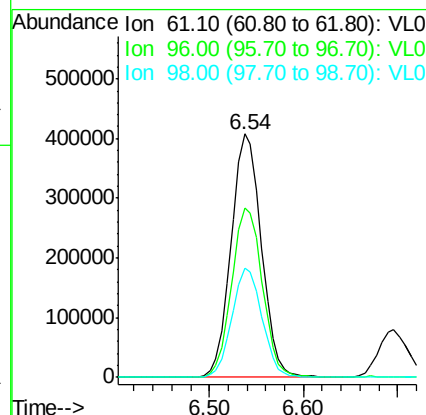
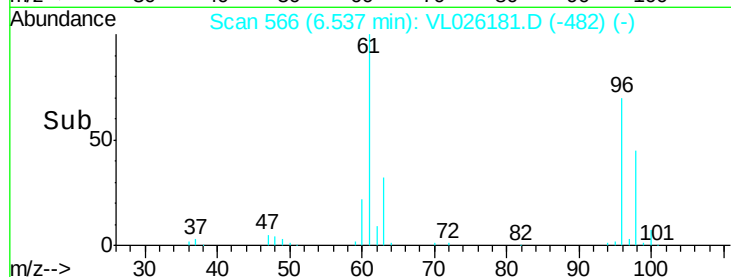
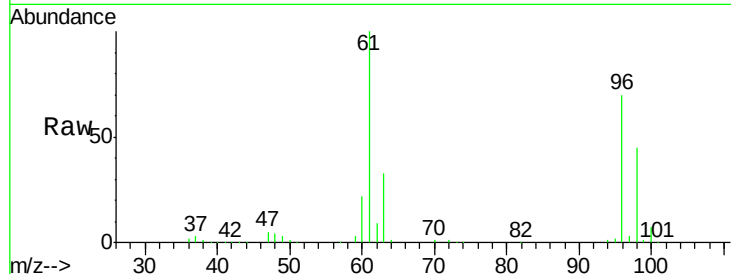
#31
 cis-1,2-Dichloroethene
 Concen: 9.53 ppbv
 RT: 6.54 min Scan# 566
 Delta R.T. 0.01 min
 Lab File: VL026181.D
 Acq: 9 Oct 2015 18:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1009ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	69.7	55.8	83.8
98	44.8	35.8	53.6

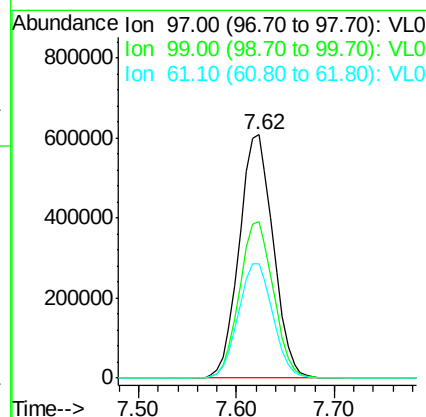
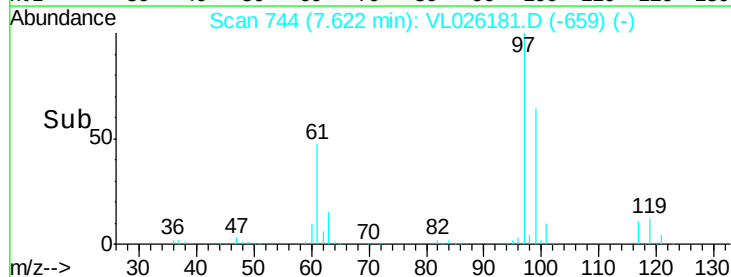
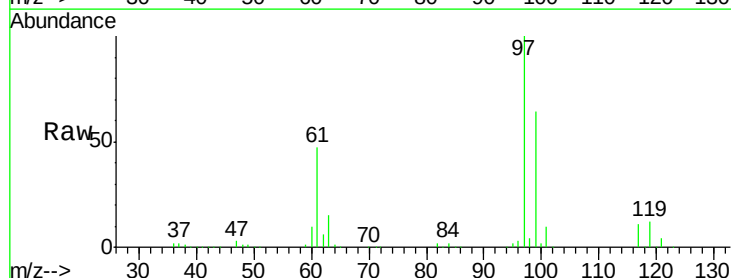
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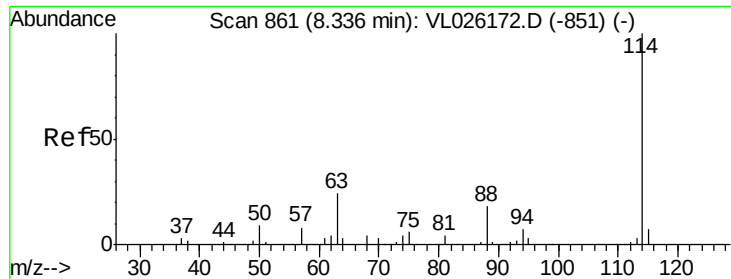
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#32
 1,1,1-Trichloroethane
 Concen: 9.88 ppbv
 RT: 7.62 min Scan# 744
 Delta R.T. 0.02 min
 Lab File: VL026181.D
 Acq: 9 Oct 2015 18:11

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.3	76.9
61	48.0	38.7	58.1





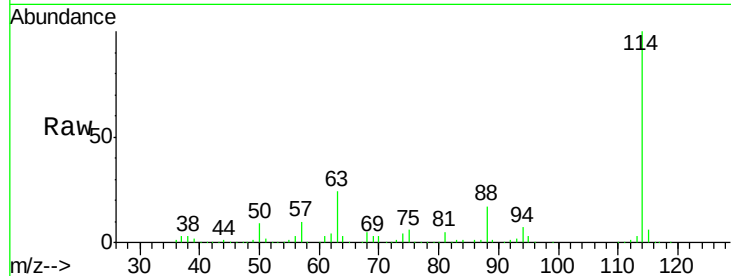
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.35 min Scan# 864
 Delta R.T. 0.02 min
 Lab File: VL026181.D
 Acq: 9 Oct 2015 18:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1009ABS01

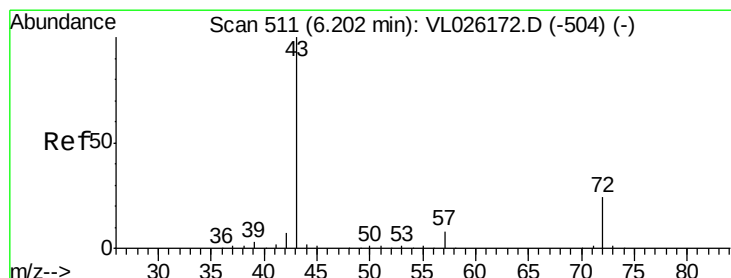
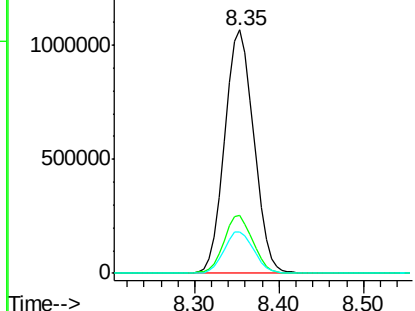
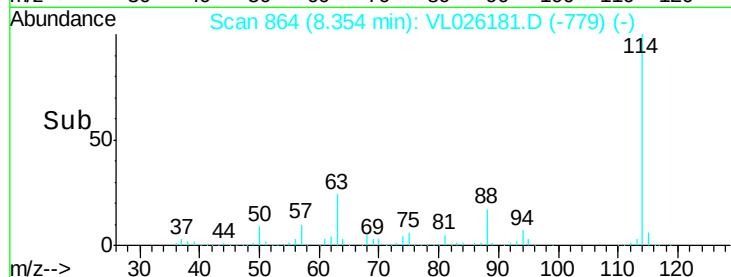
Tot Ion:114 Resp: 2521133
 Ion Ratio Lower Upper
 114 100
 63 23.9 19.0 28.6
 88 17.3 13.8 20.8

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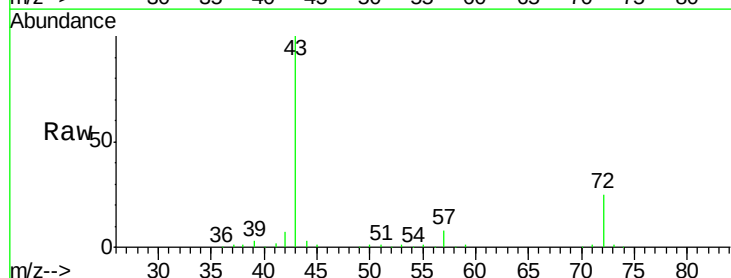


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

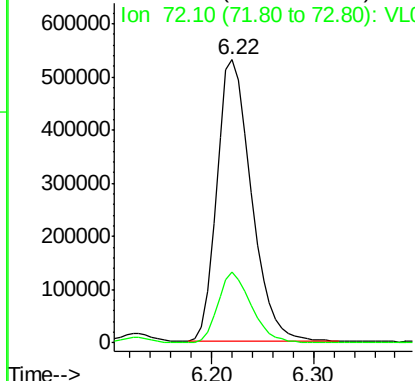
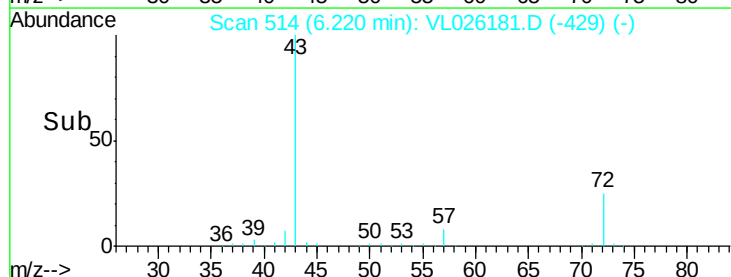


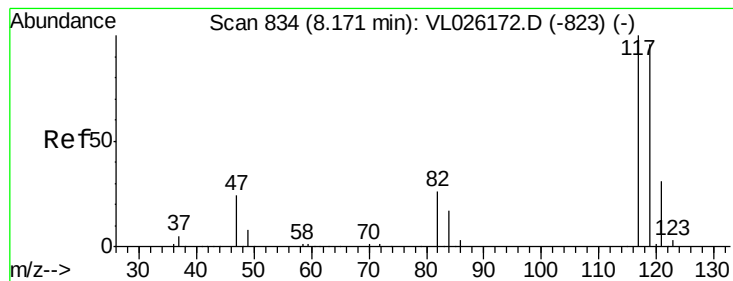
#34
 2-Butanone
 Concen: 8.88 ppbv
 RT: 6.22 min Scan# 514
 Delta R.T. 0.02 min
 Lab File: VL026181.D
 Acq: 9 Oct 2015 18:11

Tgt Ion: 43 Resp: 1245960
 Ion Ratio Lower Upper
 43 100
 72 24.6 19.6 29.4



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.57 ppbv

RT: 8.18 min Scan# 836

Delta R.T. 0.01 min

Lab File: VL026181.D

Acq: 9 Oct 2015 18:11

Instrument :

MSVOA_L

ClientSampleId :

VL1009ABS01

Tot Ion:117 Resp: 1528425

Ion Ratio Lower Upper

117 100

119 95.7 76.6 115.0

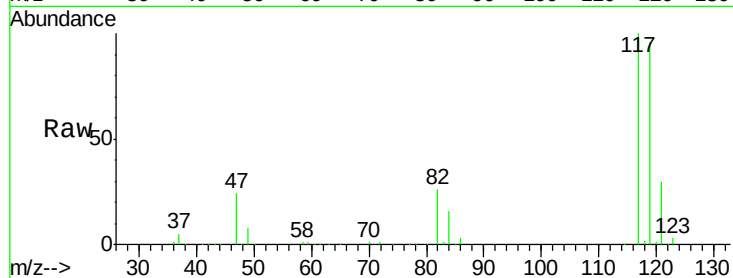
121 30.4 25.0 37.4

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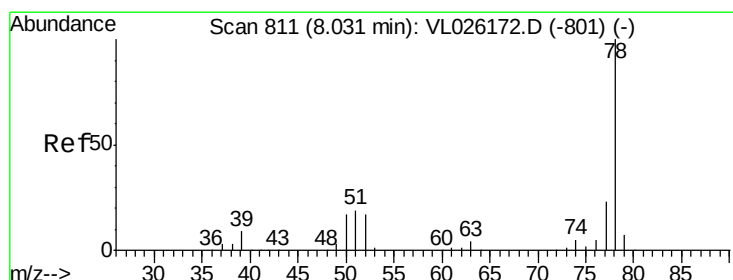
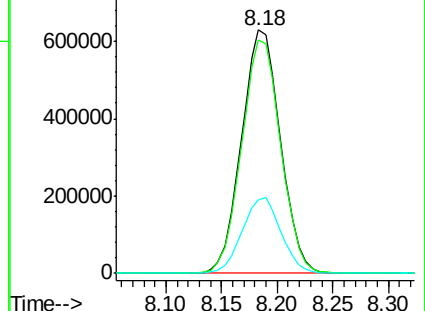
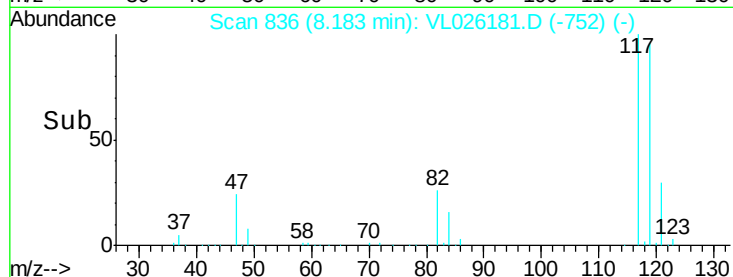
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.08 ppbv

RT: 8.05 min Scan# 814

Delta R.T. 0.02 min

Lab File: VL026181.D

Acq: 9 Oct 2015 18:11

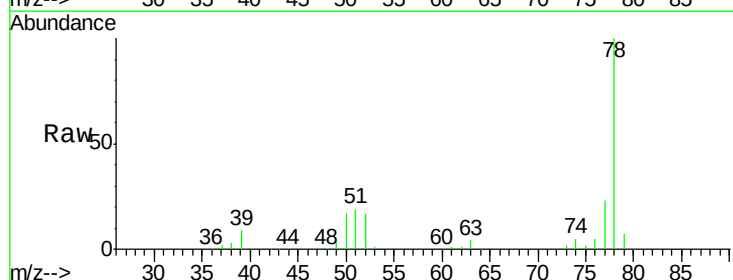
Tgt Ion: 78 Resp: 2189553

Ion Ratio Lower Upper

78 100

77 23.4 18.2 27.4

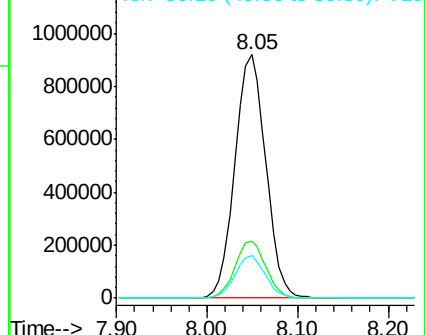
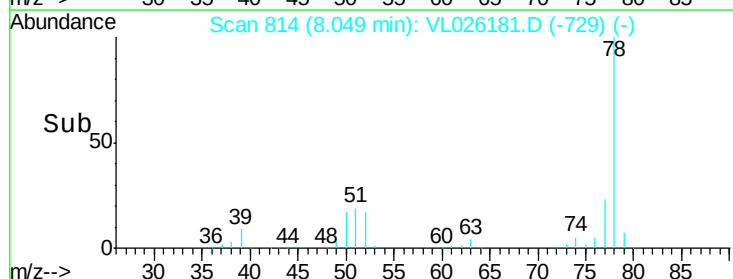
50 17.5 13.4 20.2

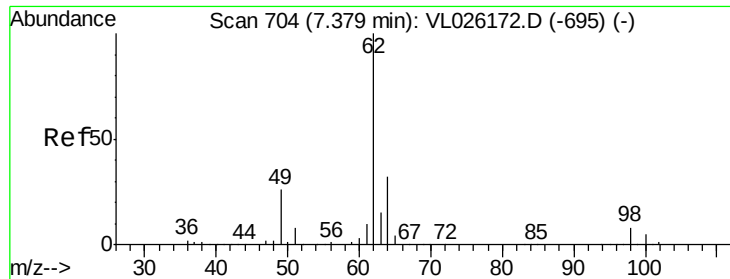


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





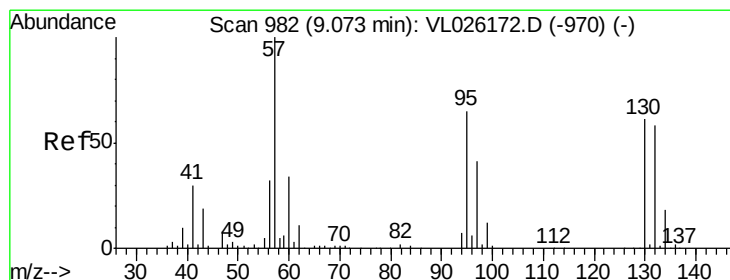
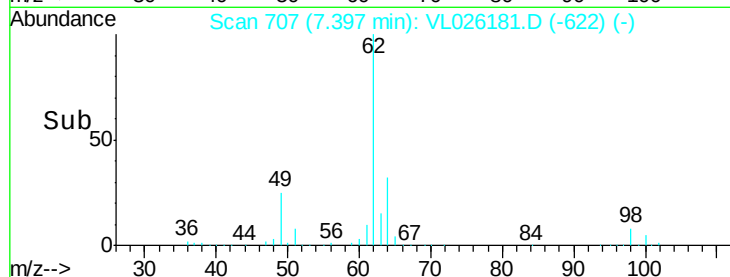
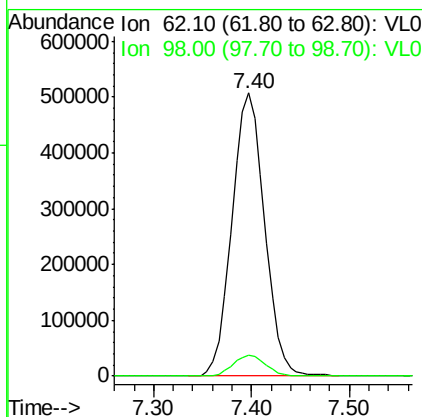
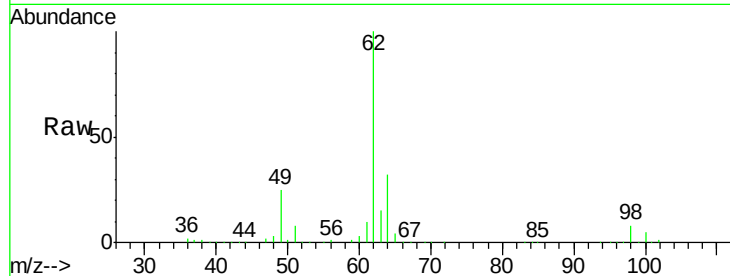
#37
 1,2-Dichloroethane
 Concen: 9.08 ppbv
 RT: 7.40 min Scan# 707
 Delta R.T. 0.02 min
 Lab File: VL026181.D
 Acq: 9 Oct 2015 18:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1009ABS01

Tot Ion: 62 Resp: 1173123
 Ion Ratio Lower Upper
 62 100
 98 7.5 6.2 9.2

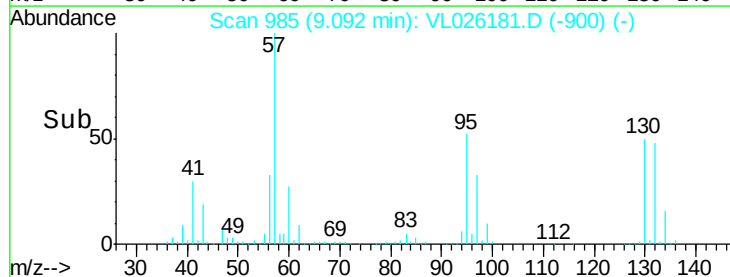
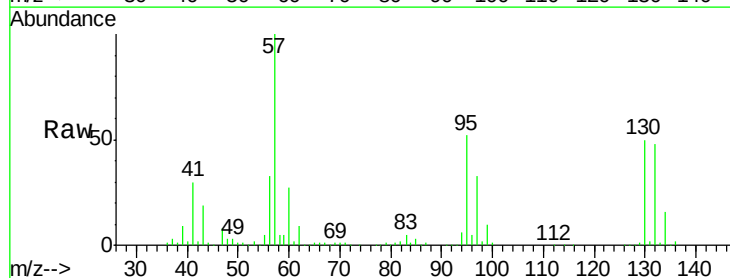
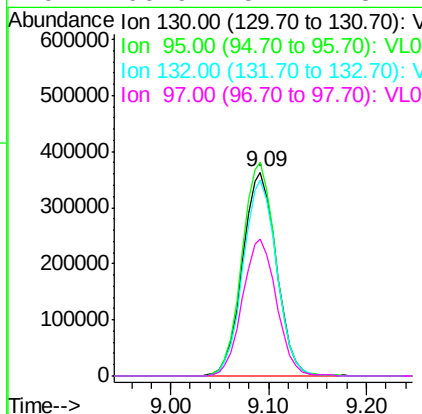
Manual Integrations
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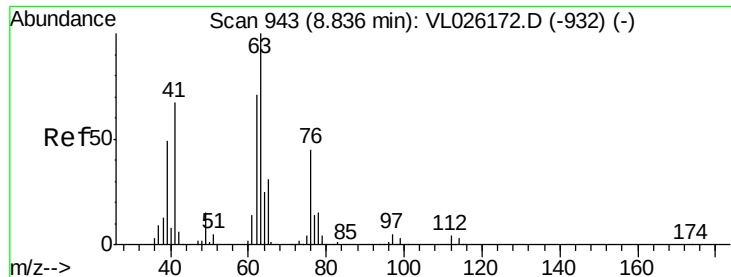
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#38
 Trichloroethene
 Concen: 7.90 ppbv
 RT: 9.09 min Scan# 985
 Delta R.T. 0.02 min
 Lab File: VL026181.D
 Acq: 9 Oct 2015 18:11

Tgt Ion:130 Resp: 874667
 Ion Ratio Lower Upper
 130 100
 95 104.7 84.9 127.3
 132 96.0 76.8 115.2
 97 66.9 54.1 81.1





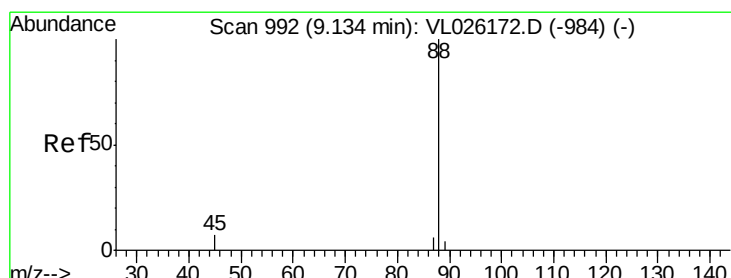
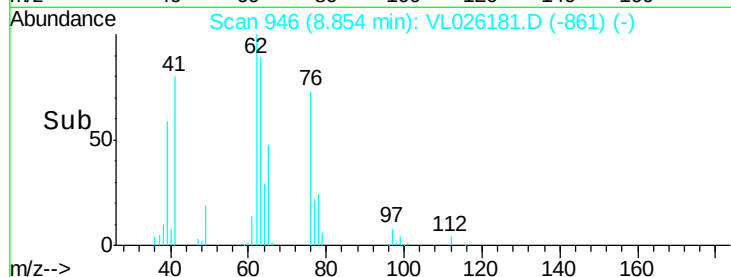
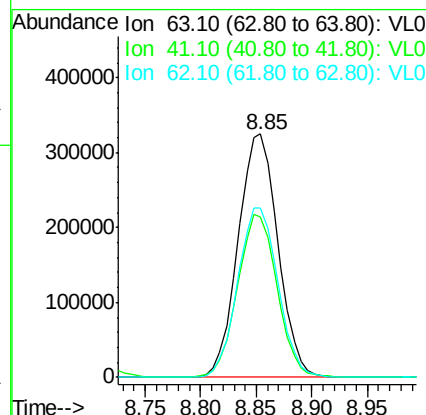
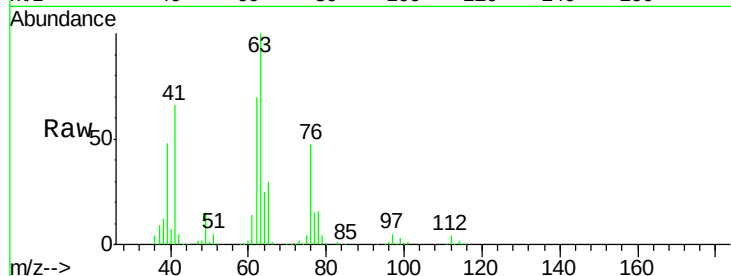
#39
 1,2-Dichloropropane
 Concen: 9.00 ppbv
 RT: 8.85 min Scan# 946
 Delta R.T. 0.02 min
 Lab File: VL026181.D
 Acq: 9 Oct 2015 18:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1009ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	65.8	53.9	80.9
62	69.8	57.1	85.7

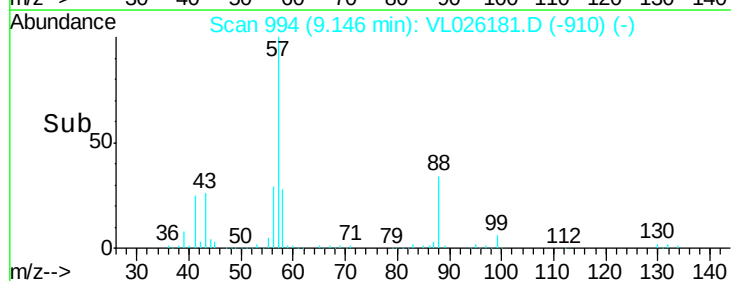
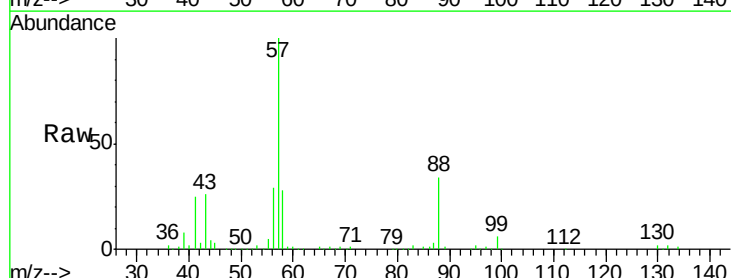
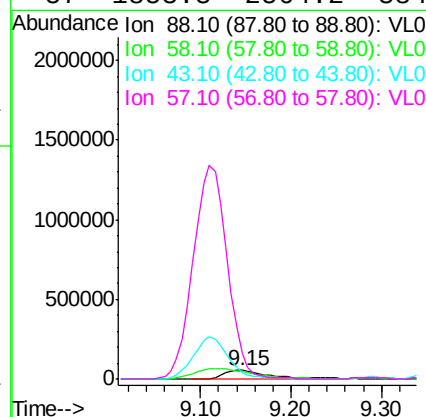
Manual Integrations
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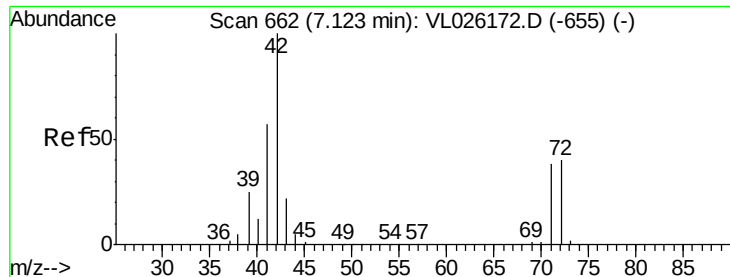
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#40
 1,4-Dioxane
 Concen: 12.94 ppbv
 RT: 9.15 min Scan# 994
 Delta R.T. 0.01 min
 Lab File: VL026181.D
 Acq: 9 Oct 2015 18:11

Tgt Ion	Ratio	Lower	Upper
88	100		
58	155.6	178.4	267.6#
43	378.1	510.2	765.4#
57	1853.3	2564.2	3846.4#





#41

Tetrahydrofuran

Concen: 9.58 ppbv

RT: 7.14 min Scan# 665

Delta R.T. 0.02 min

Lab File: VL026181.D

Acq: 9 Oct 2015 18:11

Instrument :

MSVOA_L

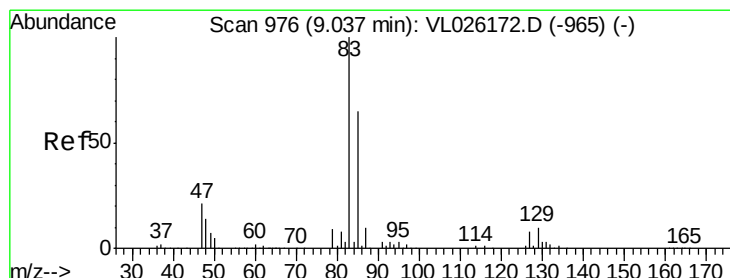
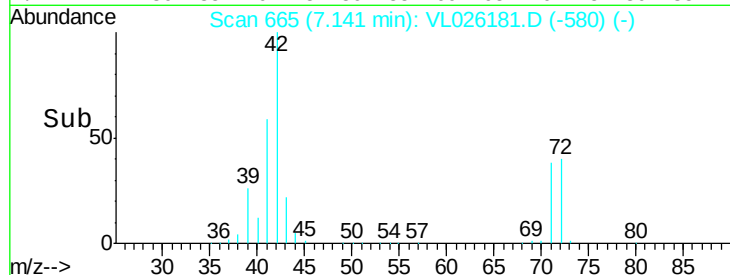
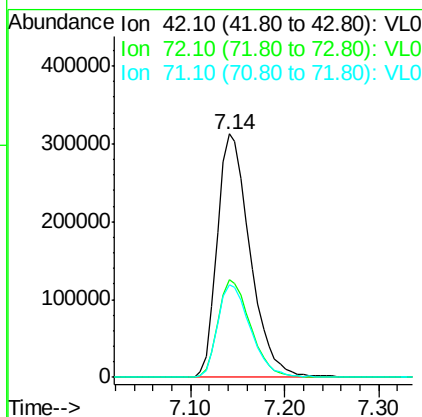
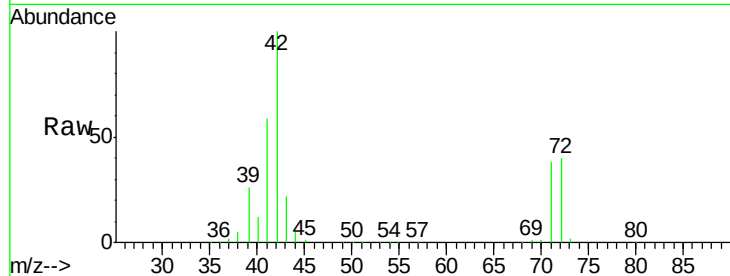
ClientSampleId :

VL1009ABS01

Tot Ion:	42	Resp:	757158
Ion	Ratio	Lower	Upper
42	100		
72	40.0	32.4	48.6
71	38.3	30.2	45.4

Manual Integrations
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#42

Bromodichloromethane

Concen: 9.49 ppbv

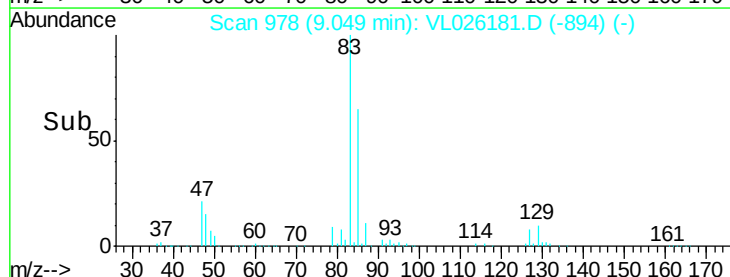
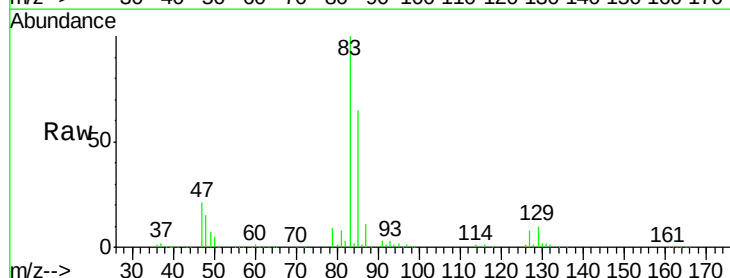
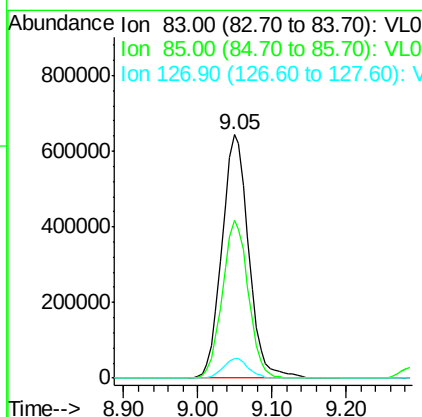
RT: 9.05 min Scan# 978

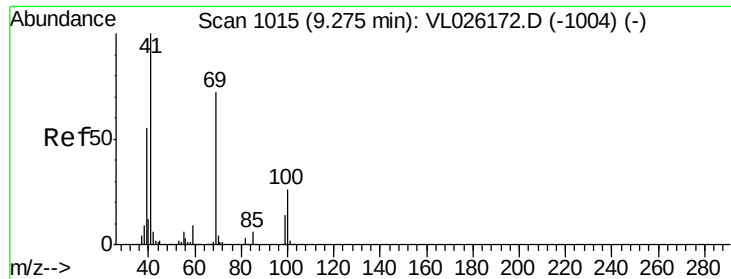
Delta R.T. 0.01 min

Lab File: VL026181.D

Acq: 9 Oct 2015 18:11

Tgt Ion:	83	Resp:	1613046
Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.9	77.9
127	7.9	6.2	9.4





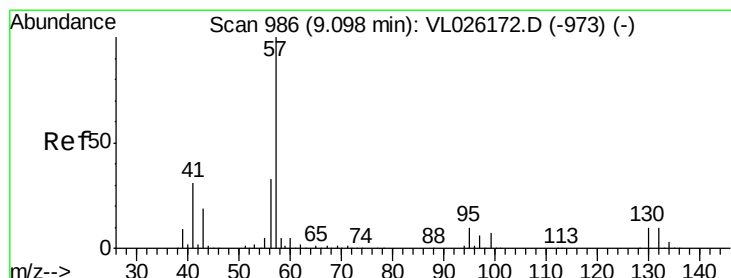
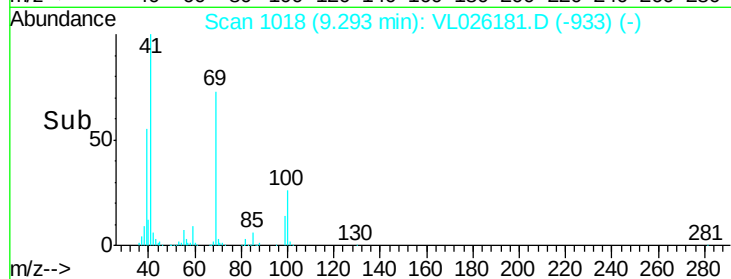
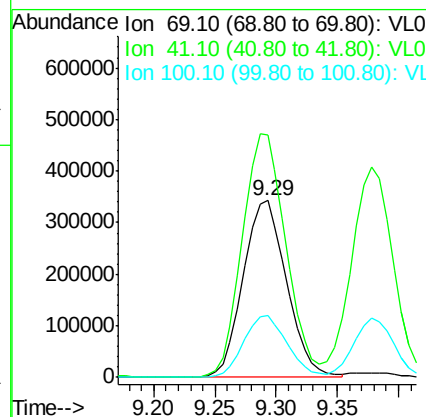
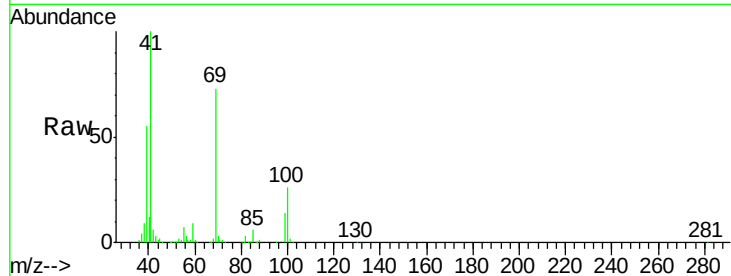
#43
Methyl Methacrylate
Concen: 10.00 ppbv
RT: 9.29 min Scan# 1018
Delta R.T. 0.02 min
Lab File: VL026181.D
Acq: 9 Oct 2015 18:11

Instrument :
MSVOA_L
ClientSampleId :
VL1009ABS01

Tot Ion: 69 Resp: 849024
Ion Ratio Lower Upper
69 100
41 138.7 111.5 167.3
100 35.0 28.4 42.6

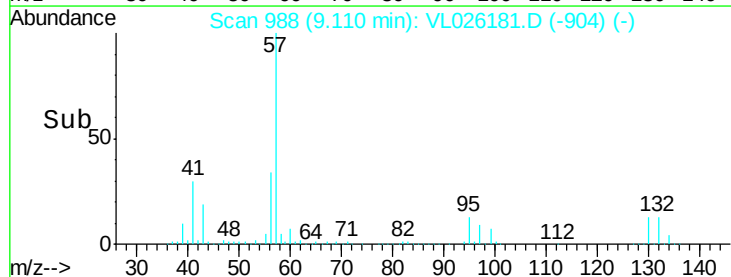
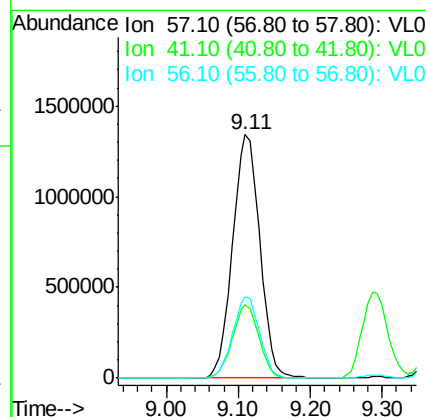
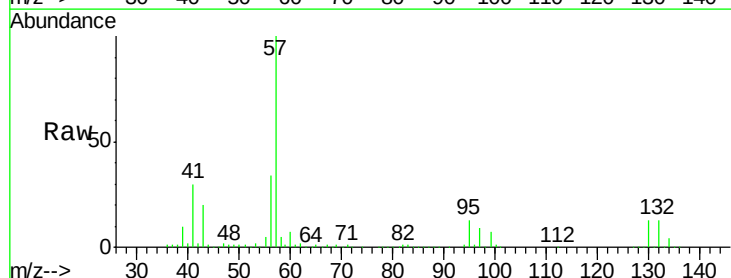
Manual Integrations
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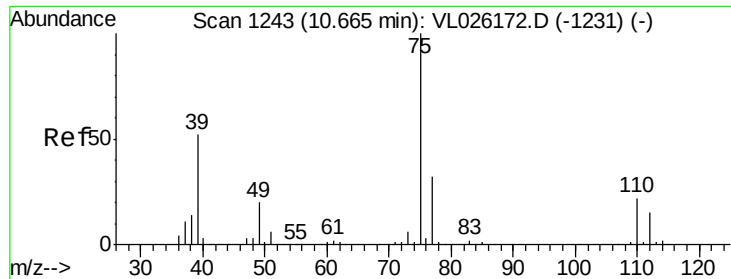
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#44
2,2,4-Trimethylpentane
Concen: 8.82 ppbv
RT: 9.11 min Scan# 988
Delta R.T. 0.01 min
Lab File: VL026181.D
Acq: 9 Oct 2015 18:11

Tgt Ion: 57 Resp: 3536851
Ion Ratio Lower Upper
57 100
41 29.2 23.7 35.5
56 32.7 26.4 39.6





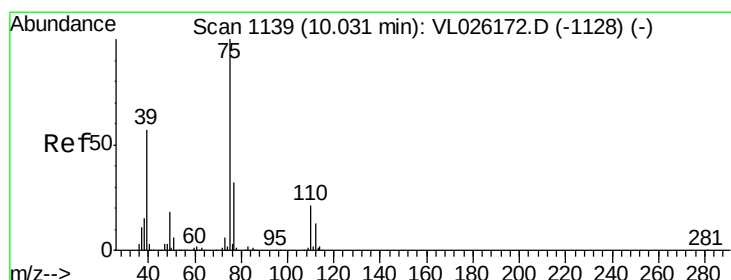
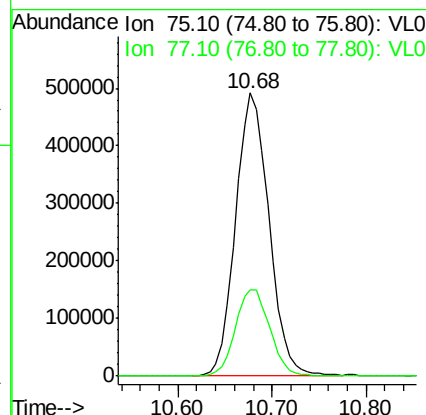
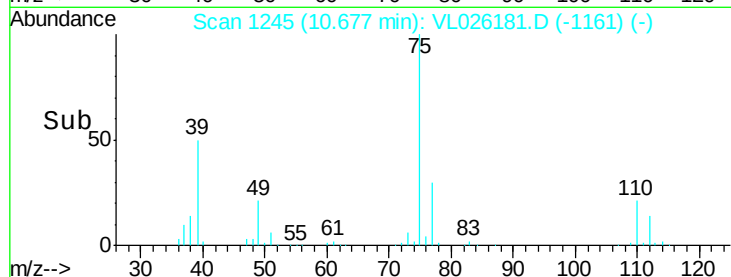
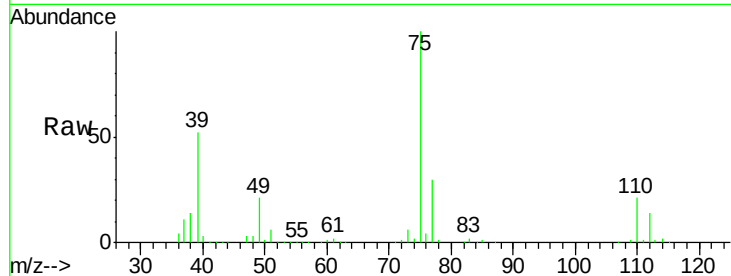
#45
 t-1,3-Dichloropropene
 Concen: 10.44 ppbv
 RT: 10.68 min Scan# 1245
 Delta R.T. 0.01 min
 Lab File: VL026181.D
 Acq: 9 Oct 2015 18:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1009ABS01

Tot Ion: 75 Resp: 1220762
 Ion Ratio Lower Upper
 75 100
 77 30.5 25.5 38.3

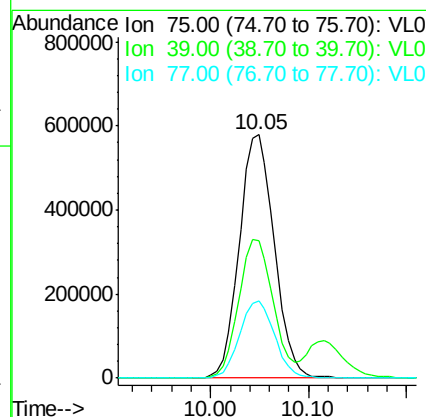
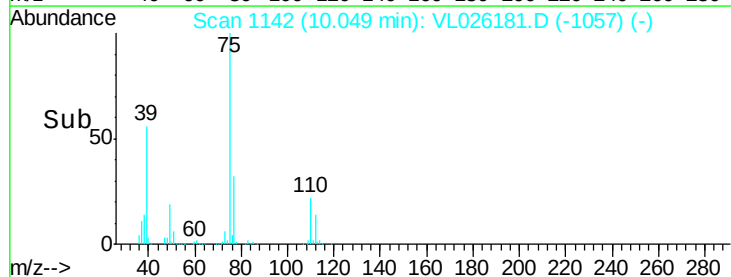
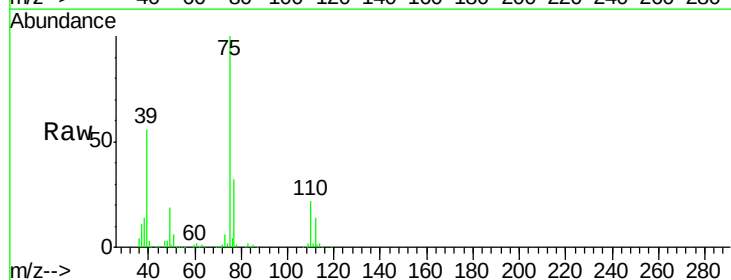
Manual Integrations
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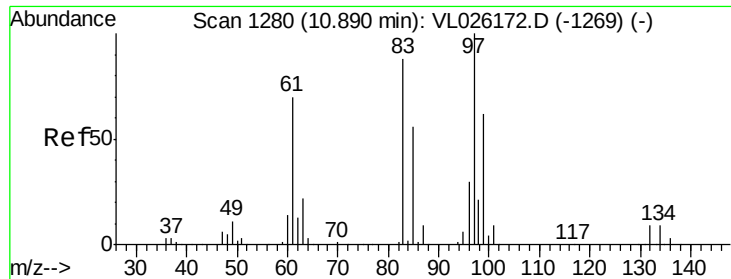
MMdadoda
 10/12/2015 1:24:21 PM



#46
 cis-1,3-Dichloropropene
 Concen: 10.03 ppbv
 RT: 10.05 min Scan# 1142
 Delta R.T. 0.02 min
 Lab File: VL026181.D
 Acq: 9 Oct 2015 18:11

Tgt Ion: 75 Resp: 1439402
 Ion Ratio Lower Upper
 75 100
 39 56.5 45.4 68.2
 77 31.8 25.4 38.2





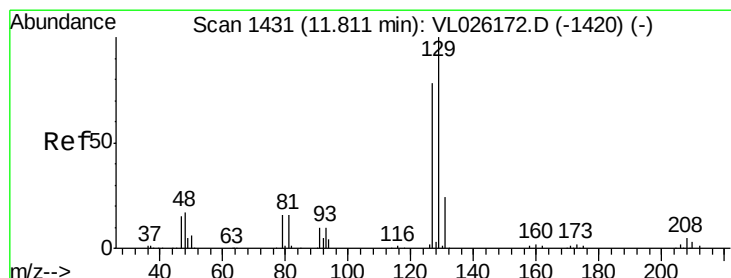
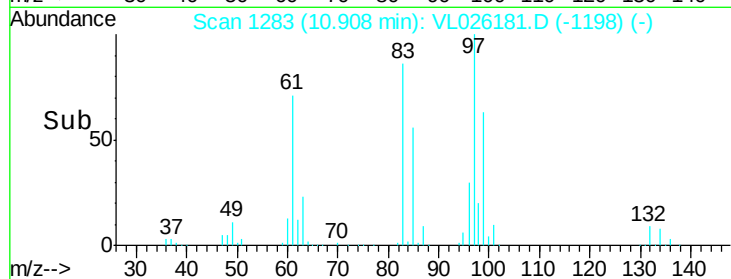
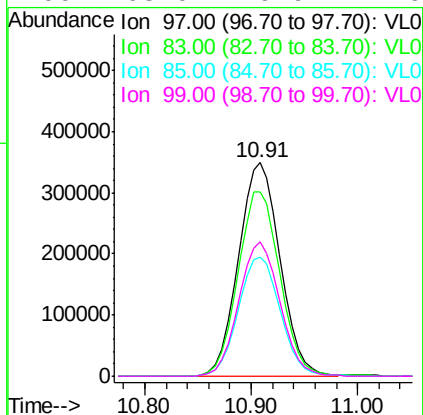
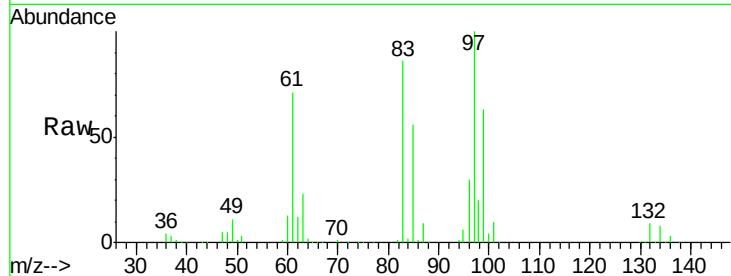
#47
 1,1,2-Trichloroethane
 Concen: 8.91 ppbv
 RT: 10.91 min Scan# 1283
 Delta R.T. 0.02 min
 Lab File: VL026181.D
 Acq: 9 Oct 2015 18:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1009ABS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		957807		
83	86.5	70.6	106.0		
85	55.8	45.1	67.7		
99	63.0	49.9	74.9		

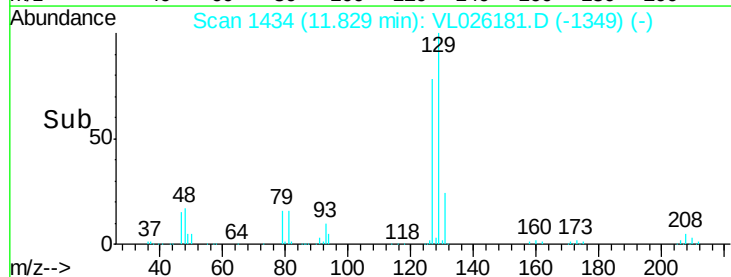
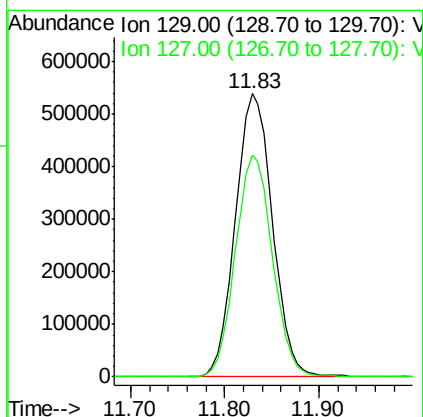
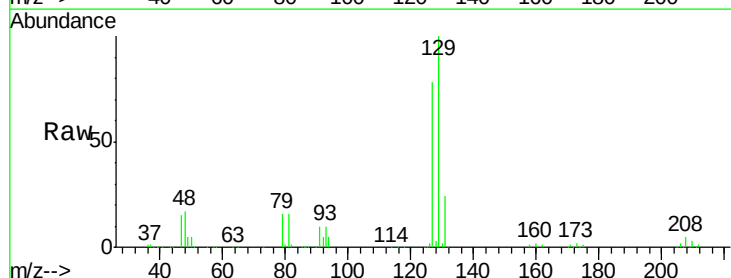
Manual Integrations
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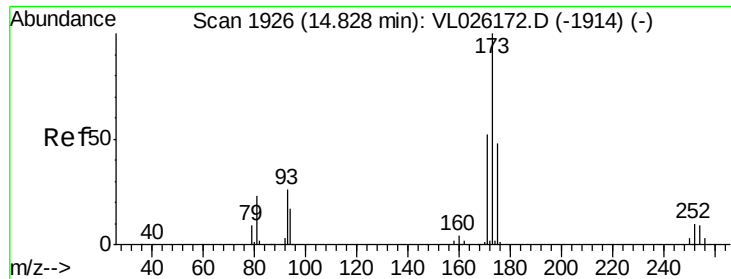
MMdadoda
 10/12/2015 1:24:21 PM



#48
 Dibromochloromethane
 Concen: 9.74 ppbv
 RT: 11.83 min Scan# 1434
 Delta R.T. 0.02 min
 Lab File: VL026181.D
 Acq: 9 Oct 2015 18:11

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		1484072		
127	78.6	39.0	117.0		





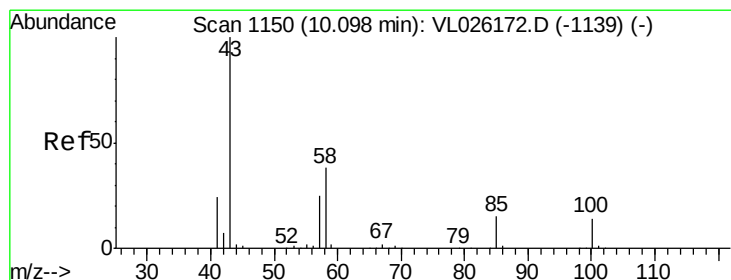
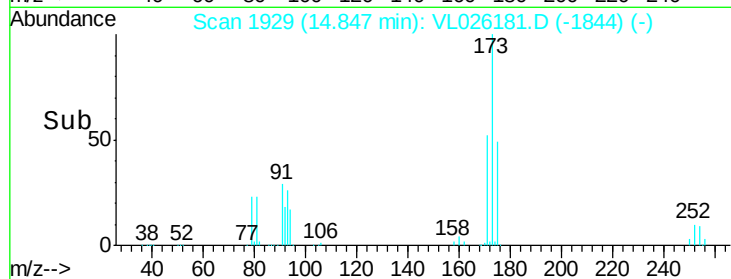
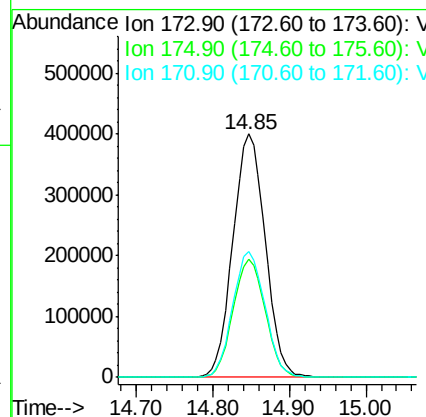
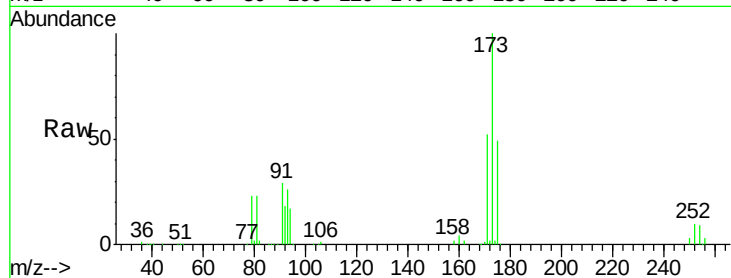
#49
Bromoform
Concen: 10.24 ppbv
RT: 14.85 min Scan# 1929
Delta R.T. 0.02 min
Lab File: VL026181.D
Acq: 9 Oct 2015 18:11

Instrument :
MSVOA_L
ClientSampleId :
VL1009ABS01

Tot Ion:173 Resp: 1174719
Ion Ratio Lower Upper
173 100
175 48.5 39.0 58.6
171 51.6 41.9 62.9

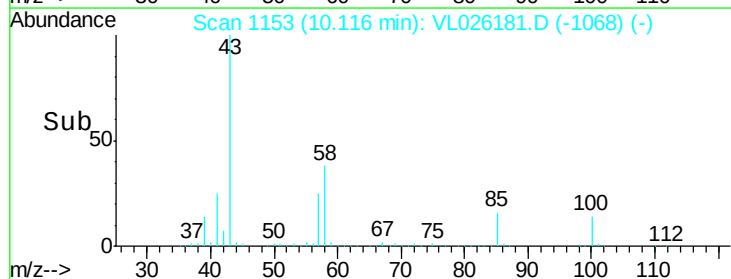
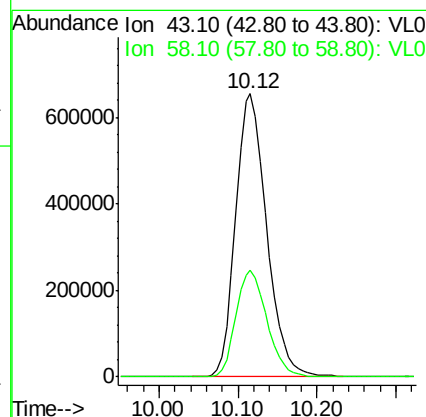
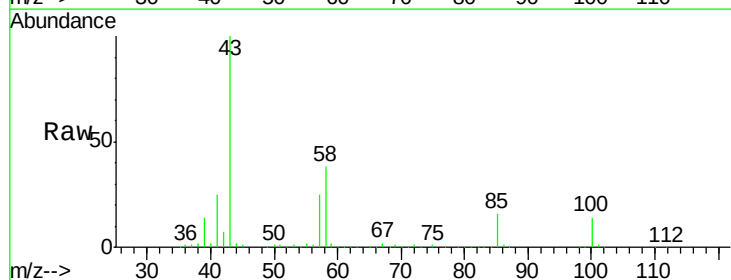
Manual Integrations
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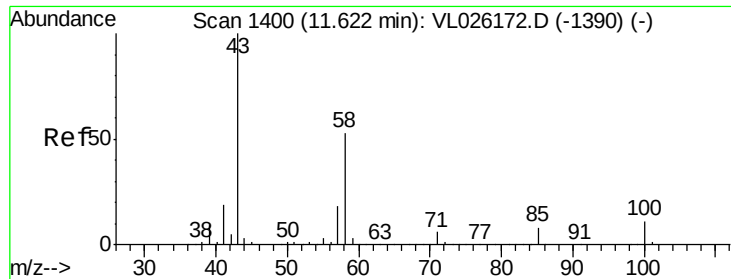
MMdadoda
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#50
4-Methyl-2-Pentanone
Concen: 9.65 ppbv
RT: 10.12 min Scan# 1153
Delta R.T. 0.02 min
Lab File: VL026181.D
Acq: 9 Oct 2015 18:11

Tgt Ion: 43 Resp: 1790738
Ion Ratio Lower Upper
43 100
58 38.1 30.4 45.6





#51

2-Hexanone

Concen: 10.13 ppbv

RT: 11.65 min Scan# 1404

Delta R.T. 0.02 min

Lab File: VL026181.D

Acq: 9 Oct 2015 18:11

Instrument :

MSVOA_L

ClientSampleId :

VL1009ABS01

Tot Ion: 43 Resp: 1689770

Ion Ratio Lower Upper

43 100

58 53.2 42.2 63.4

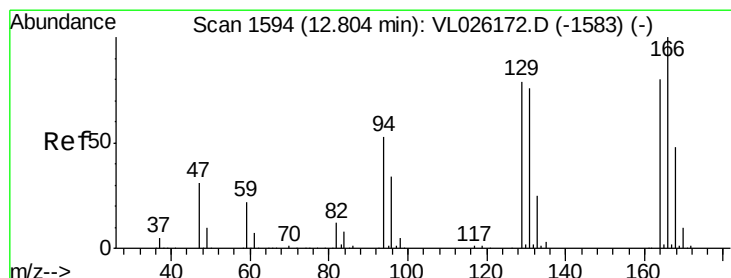
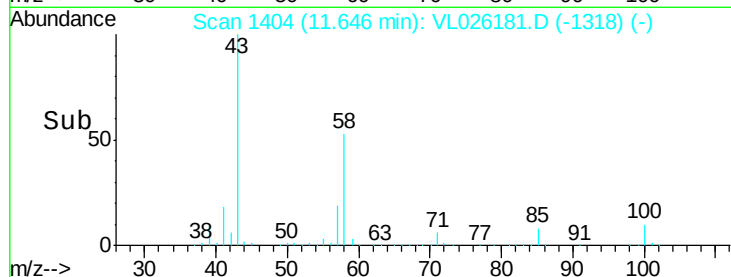
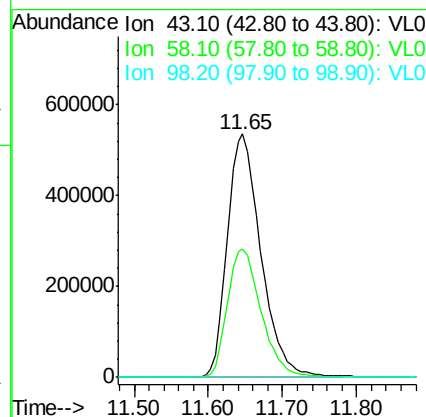
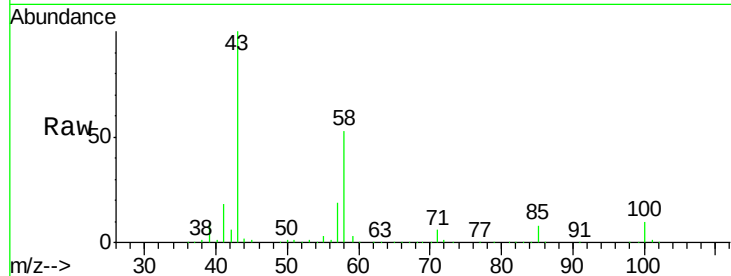
98 0.3 0.2 0.2#

Manual Integrations

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#52

Tetrachloroethene

Concen: 7.79 ppbv

RT: 12.82 min Scan# 1597

Delta R.T. 0.02 min

Lab File: VL026181.D

Acq: 9 Oct 2015 18:11

Tgt Ion: 164 Resp: 928359

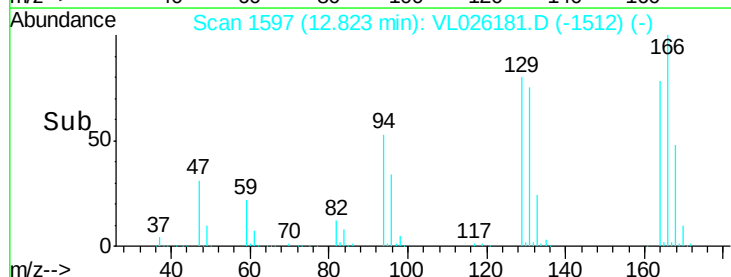
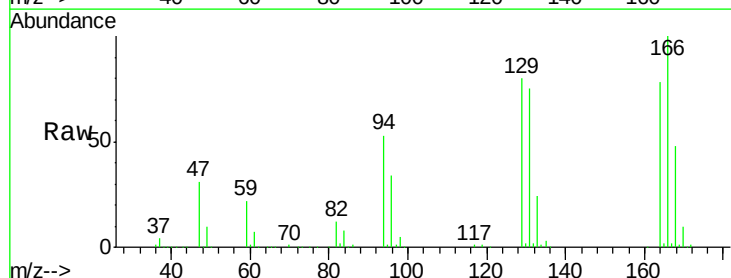
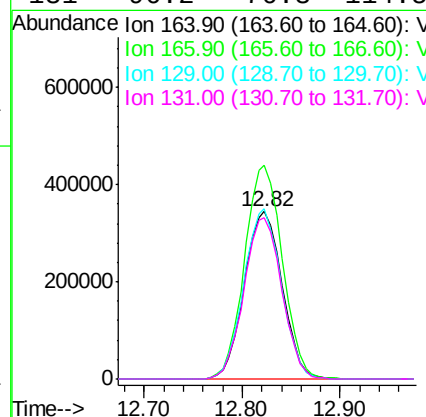
Ion Ratio Lower Upper

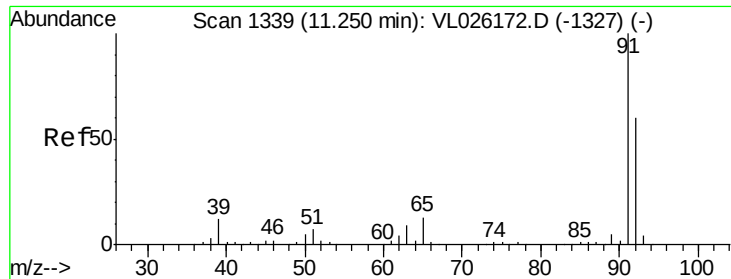
164 100

166 127.5 99.9 149.9

129 101.8 79.1 118.7

131 96.2 76.3 114.5





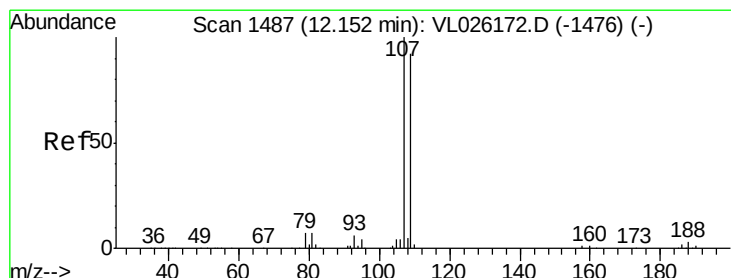
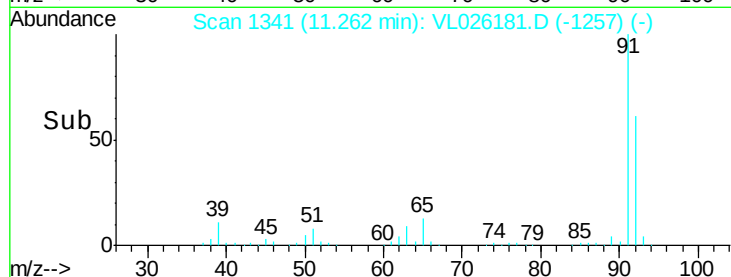
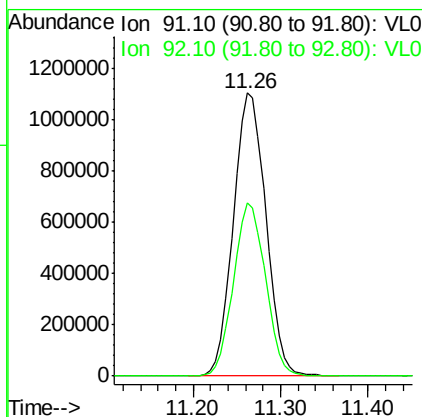
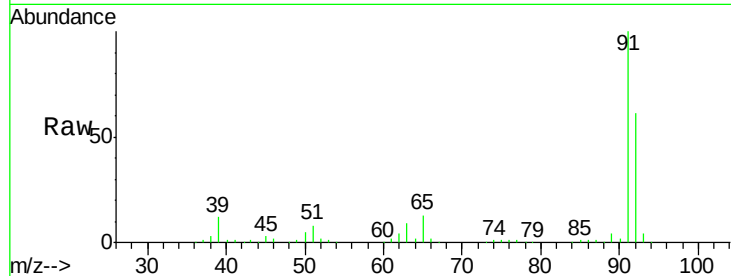
#53
Toluene
Concen: 9.20 ppbv
RT: 11.26 min Scan# 1341
Delta R.T. 0.01 min
Lab File: VL026181.D
Acq: 9 Oct 2015 18:11

Instrument :
MSVOA_L
ClientSampleId :
VL1009ABS01

Tot Ion: 91 Resp: 2858493
Ion Ratio Lower Upper
91 100
92 60.5 48.5 72.7

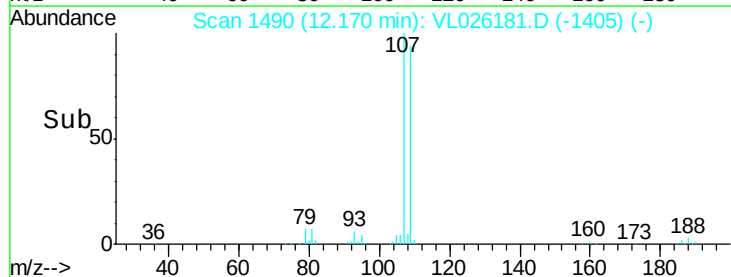
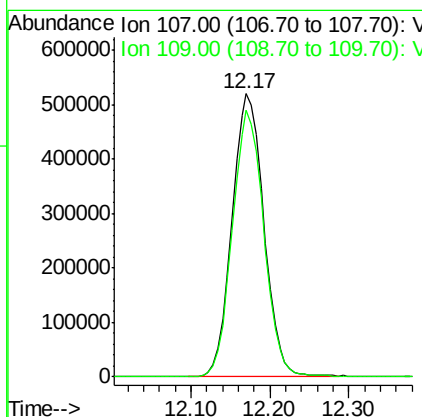
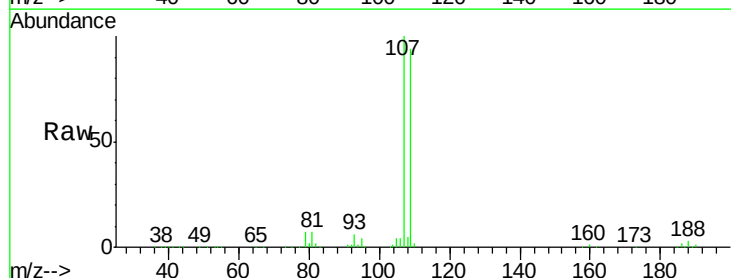
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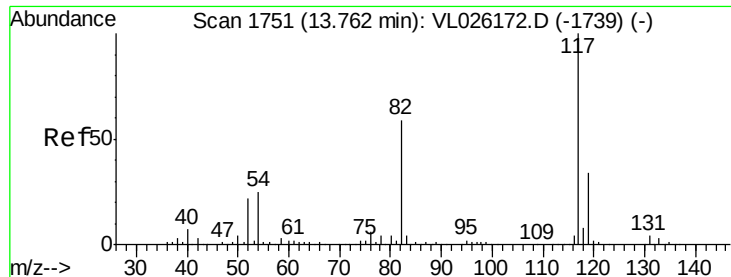
MMdadoda
10/12/2015 1:24:21 PM



#54
1,2-Dibromoethane
Concen: 9.07 ppbv
RT: 12.17 min Scan# 1490
Delta R.T. 0.02 min
Lab File: VL026181.D
Acq: 9 Oct 2015 18:11

Tgt Ion: 107 Resp: 1461612
Ion Ratio Lower Upper
107 100
109 94.3 73.2 109.8





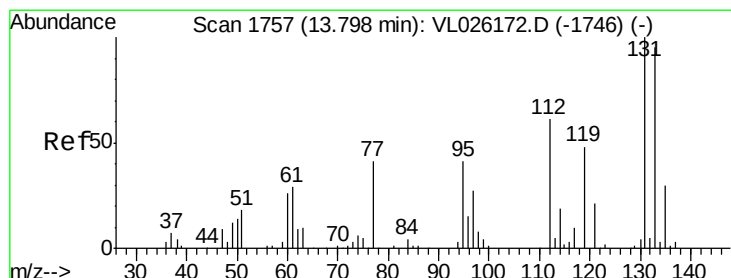
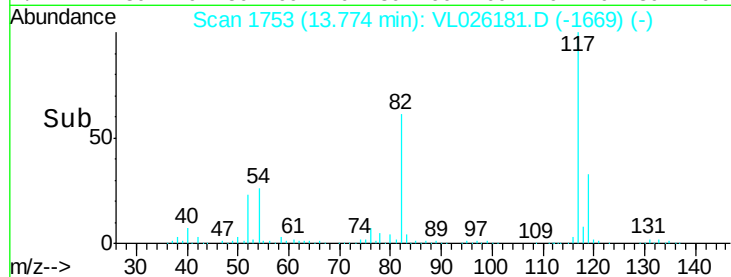
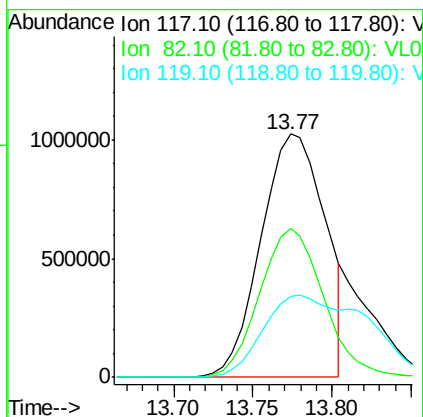
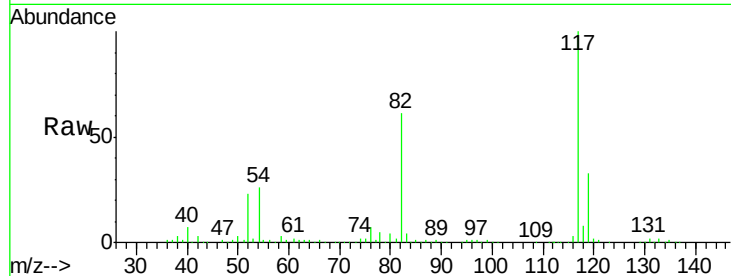
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 13.77 min Scan# 1753
Delta R.T. 0.01 min
Lab File: VL026181.D
Acq: 9 Oct 2015 18:11

Instrument :
MSVOA_L
ClientSampleId :
VL1009ABS01

Tot Ion:117 Resp: 2890889
Ion Ratio Lower Upper
117 100
82 61.9 47.7 71.5
119 55.7 43.7 65.5

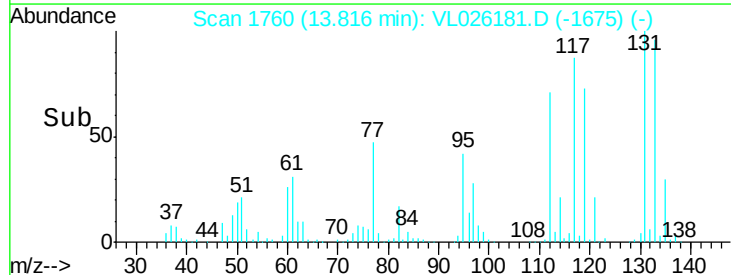
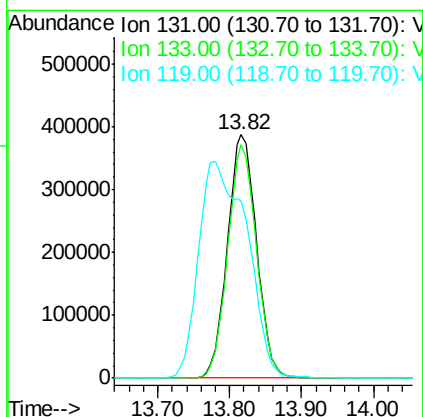
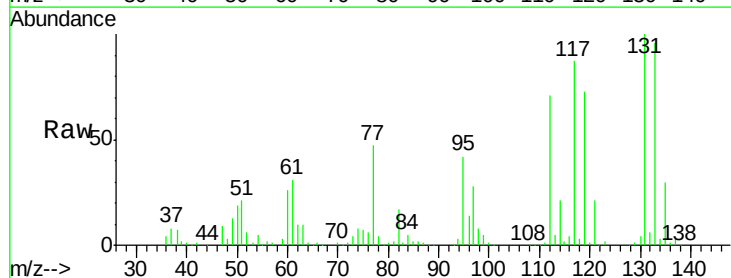
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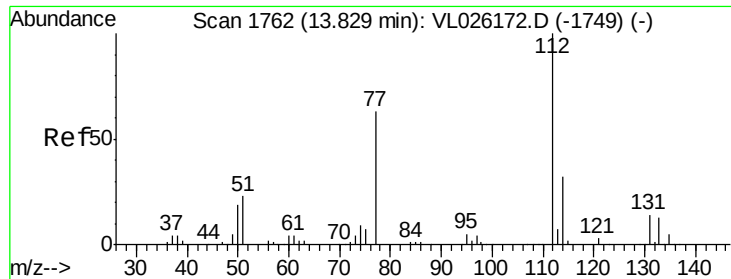
MMdadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.41 ppbv
RT: 13.82 min Scan# 1760
Delta R.T. 0.02 min
Lab File: VL026181.D
Acq: 9 Oct 2015 18:11

Tgt Ion:131 Resp: 1089857
Ion Ratio Lower Upper
131 100
133 94.8 76.5 114.7
119 147.7 116.0 174.0





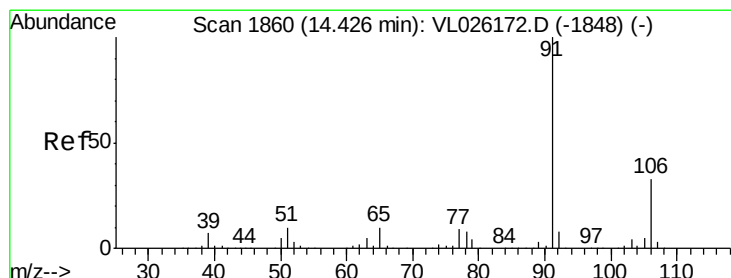
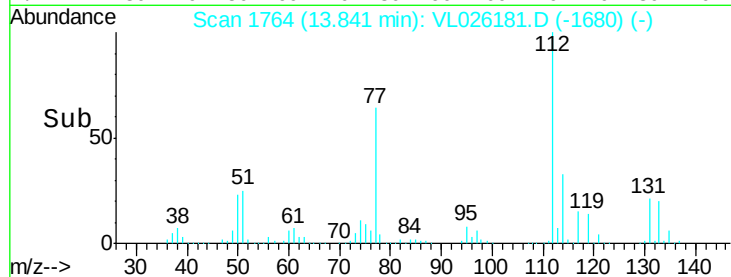
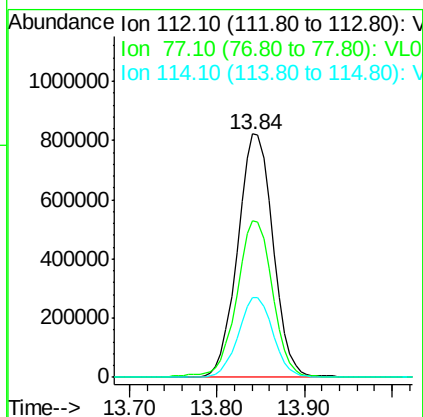
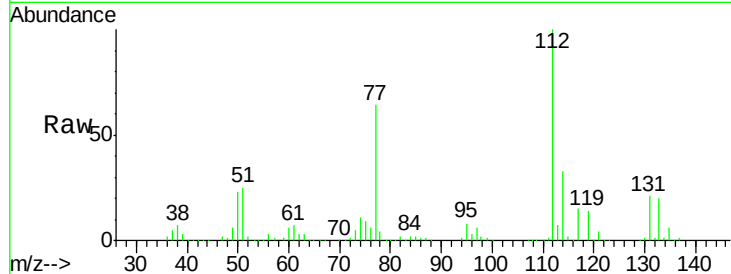
#57
Chlorobenzene
Concen: 8.87 ppbv
RT: 13.84 min Scan# 1764
Delta R.T. 0.01 min
Lab File: VL026181.D
Acq: 9 Oct 2015 18:11

Instrument :
MSVOA_L
ClientSampleId :
VL1009ABS01

Tot Ion: 112 Resp: 2314700
Ion Ratio Lower Upper
112 100
77 63.9 51.0 76.4
114 32.5 29.0 35.4

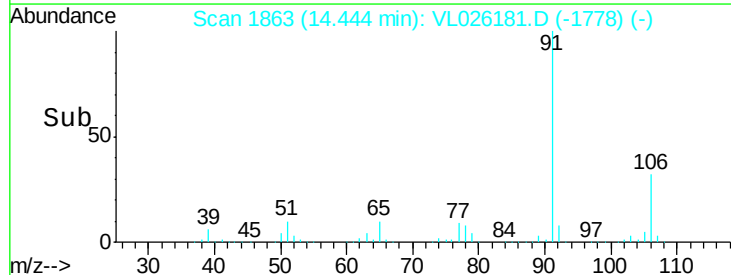
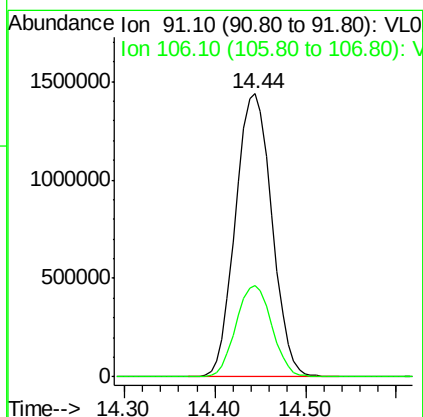
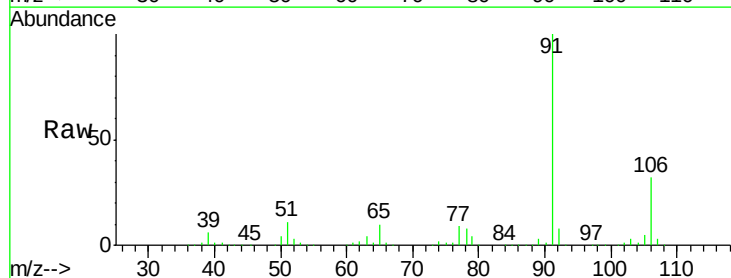
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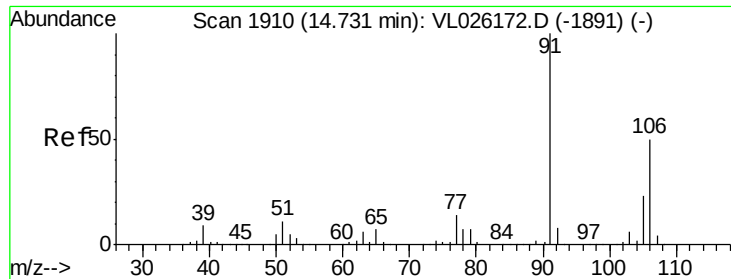
MMdadoda
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#58
Ethyl Benzene
Concen: 9.56 ppbv
RT: 14.44 min Scan# 1863
Delta R.T. 0.02 min
Lab File: VL026181.D
Acq: 9 Oct 2015 18:11

Tgt Ion: 91 Resp: 4016156
Ion Ratio Lower Upper
91 100
106 32.1 26.1 39.1





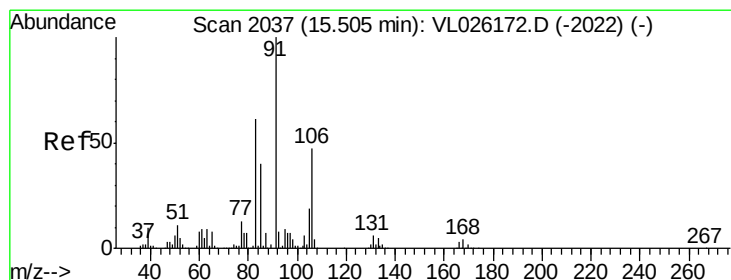
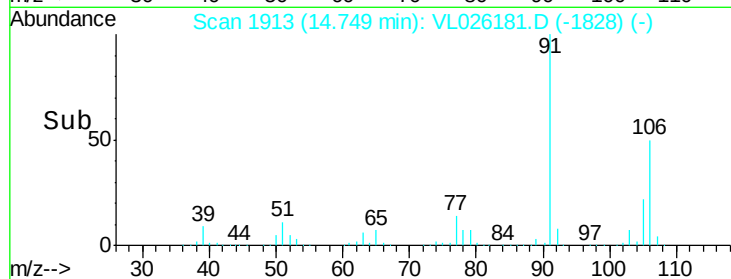
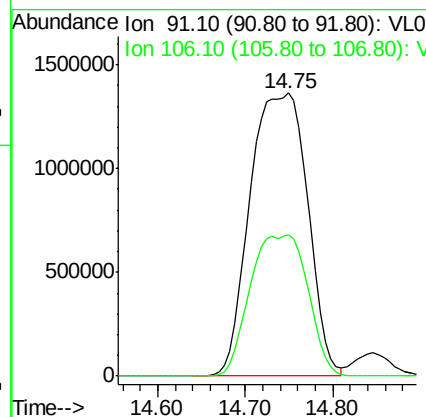
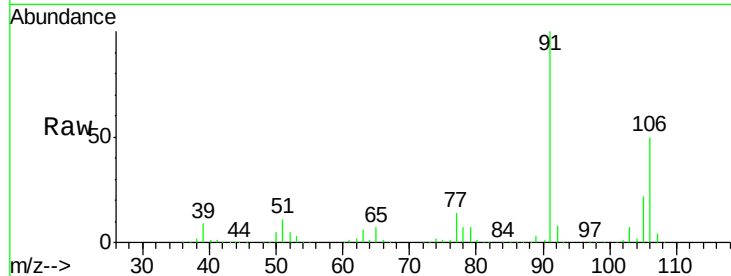
#59
m/p-Xylene
Concen: 18.51 ppbv m
RT: 14.75 min Scan# 1913
Delta R.T. 0.02 min
Lab File: VL026181.D
Acq: 9 Oct 2015 18:11

Instrument :
MSVOA_L
ClientSampleId :
VL1009ABS01

Tot Ion: 91 Resp: 6236289
Ion Ratio Lower Upper
91 100
106 50.2 40.2 60.4

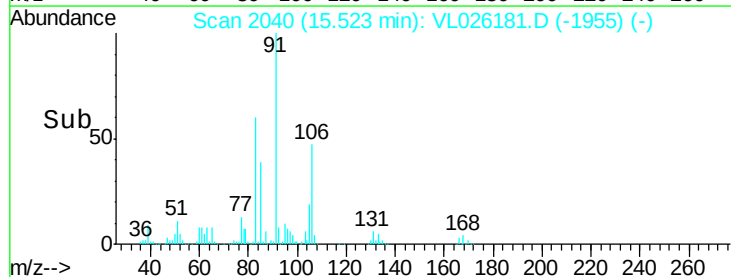
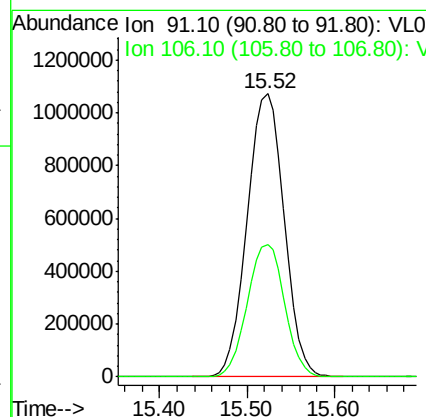
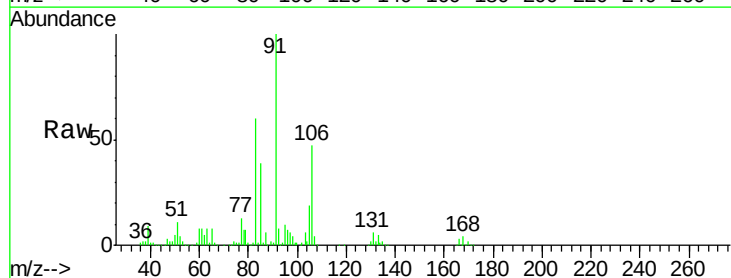
Manual Integrations
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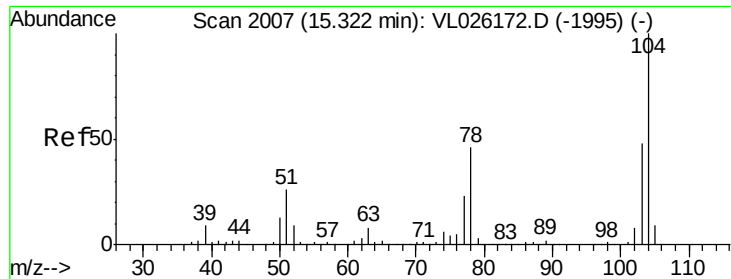
MMdadoda
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#60
o-Xylene
Concen: 8.95 ppbv
RT: 15.52 min Scan# 2040
Delta R.T. 0.02 min
Lab File: VL026181.D
Acq: 9 Oct 2015 18:11

Tgt Ion: 91 Resp: 3159571
Ion Ratio Lower Upper
91 100
106 47.3 23.4 70.3





#61

Stvrene

Concen: 10.50 ppbv

RT: 15.34 min Scan# 2010

Delta R.T. 0.02 min

Lab File: VL026181.D

Acq: 9 Oct 2015 18:11

Instrument :

MSVOA_L

ClientSampleId :

VL1009ABS01

Tot Ion:104 Resp: 1516433

Ion Ratio Lower Upper

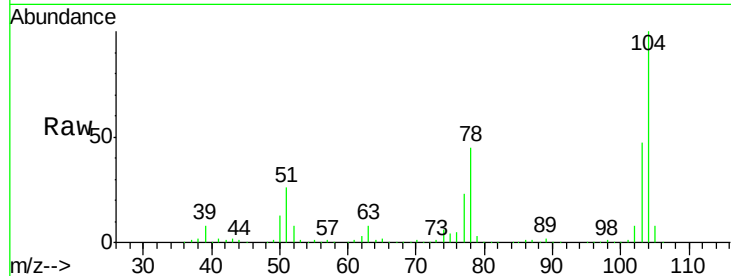
104 100

78 45.4 36.1 54.1

103 47.1 37.5 56.3

Manual Integrations
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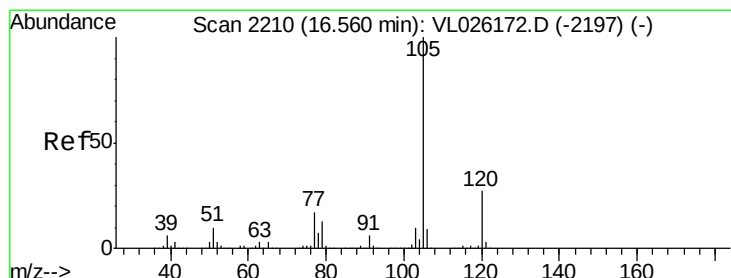
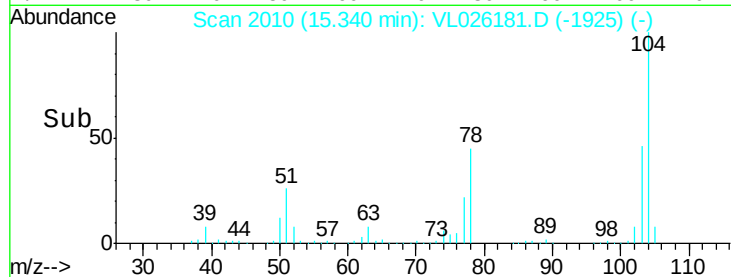
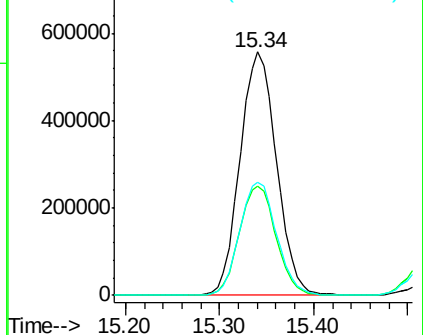
MMdadoda
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.37 ppbv

RT: 16.58 min Scan# 2213

Delta R.T. 0.02 min

Lab File: VL026181.D

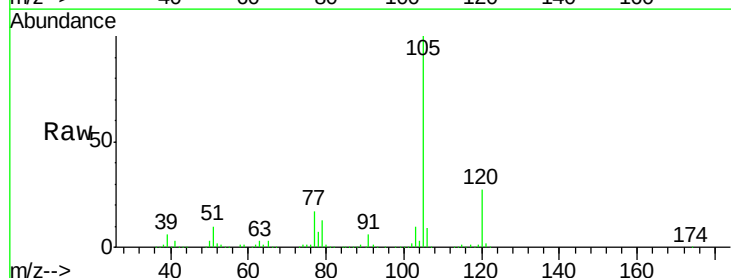
Acq: 9 Oct 2015 18:11

Tgt Ion:105 Resp: 4362169

Ion Ratio Lower Upper

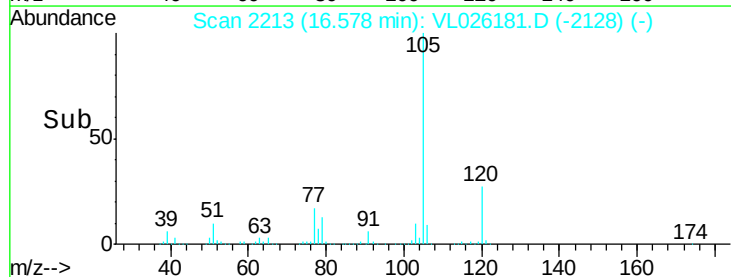
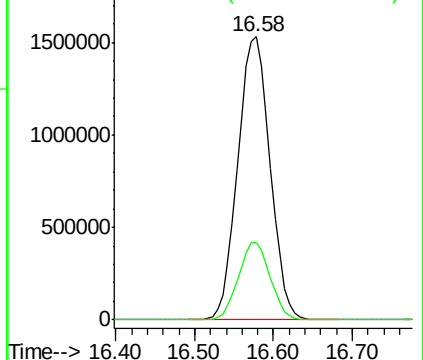
105 100

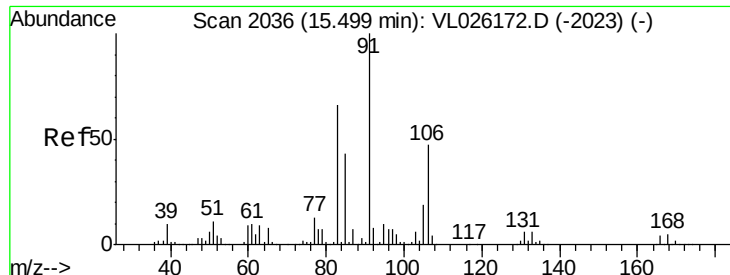
120 27.0 21.8 32.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





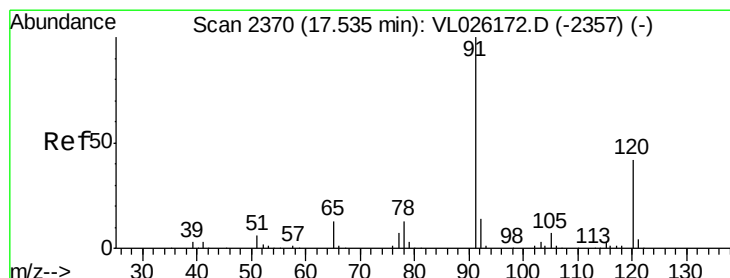
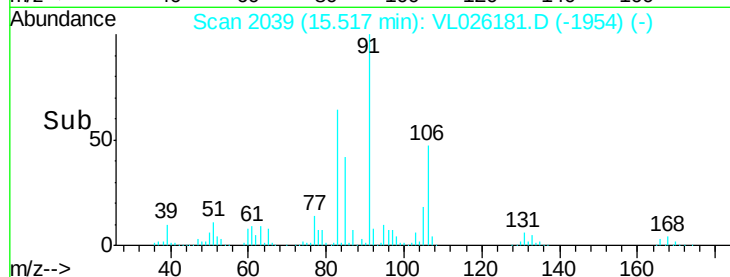
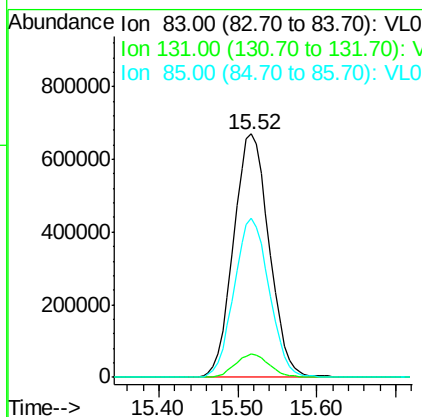
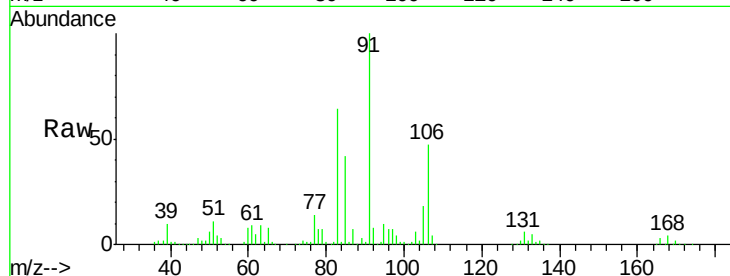
#63
1,1,2,2-Tetrachloroethane
Concen: 8.02 ppbv
RT: 15.52 min Scan# 2039
Delta R.T. 0.02 min
Lab File: VL026181.D
Acq: 9 Oct 2015 18:11

Instrument :
MSVOA_L
ClientSampleId :
VL1009ABS01

Tot Ion	83	Resp	2104680
Ion Ratio	100	Lower	Upper
131	9.1	4.5	13.7
85	64.7	32.6	97.7

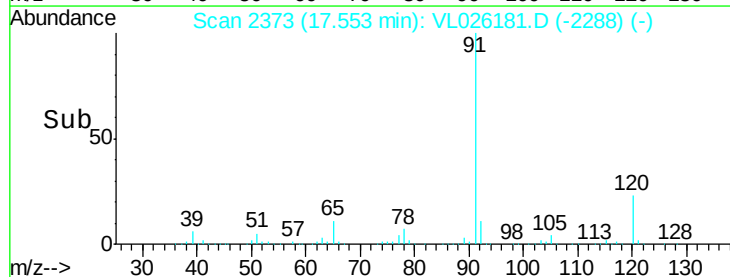
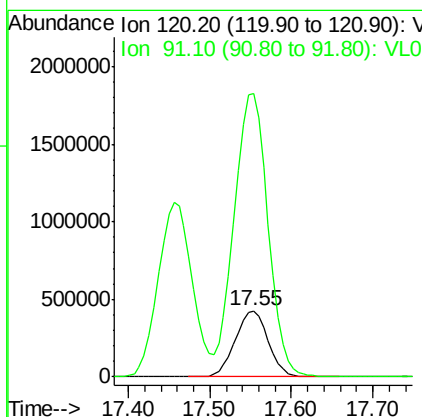
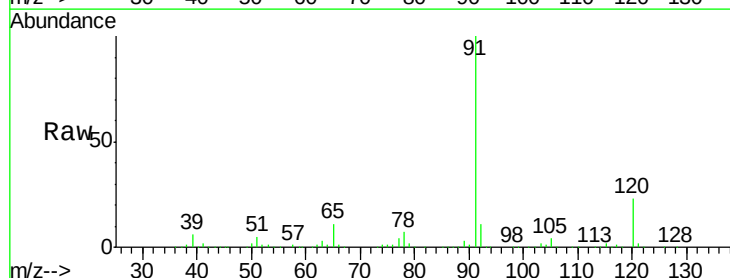
Manual Integrations
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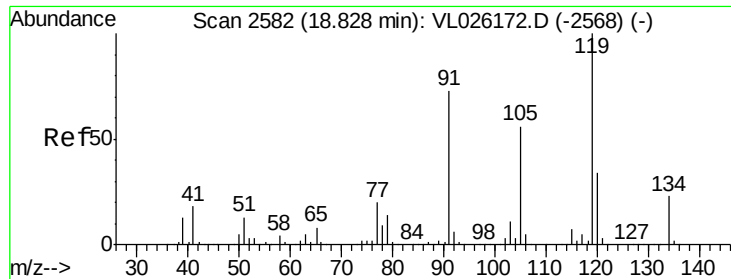
MMdadoda
10/12/2015 1:24:21 PM



#64
n-propylbenzene
Concen: 9.51 ppbv
RT: 17.55 min Scan# 2373
Delta R.T. 0.02 min
Lab File: VL026181.D
Acq: 9 Oct 2015 18:11

Tgt Ion	120	Resp	1191882
Ion Ratio	100	Lower	Upper
91	439.7	353.4	530.2





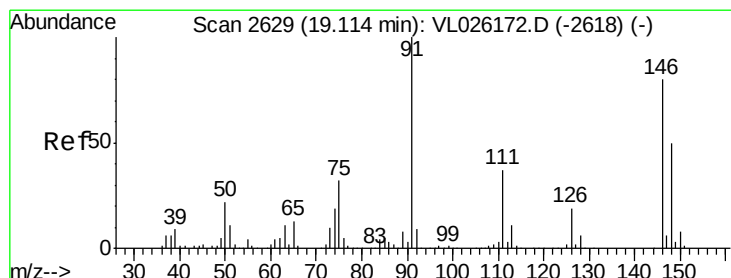
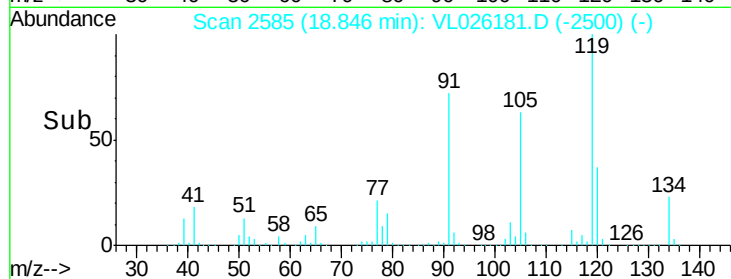
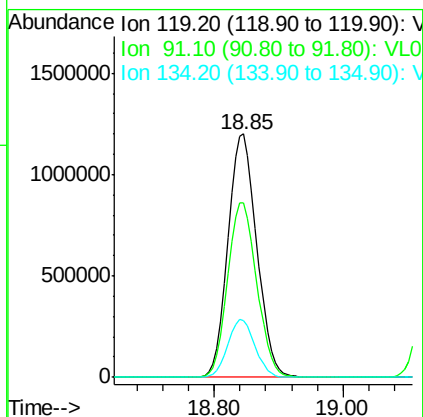
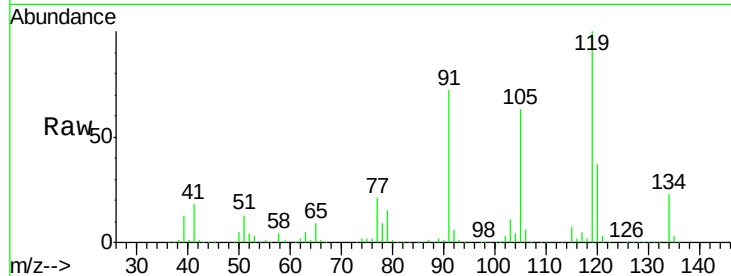
#65
 tert-Butylbenzene
 Concen: 9.12 ppbv
 RT: 18.85 min Scan# 2585
 Delta R.T. 0.02 min
 Lab File: VL026181.D
 Acq: 9 Oct 2015 18:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1009ABS01

Tot Ion:119 Resp: 3746306
 Ion Ratio Lower Upper
 119 100
 91 72.8 58.5 87.7
 134 22.6 18.0 27.0

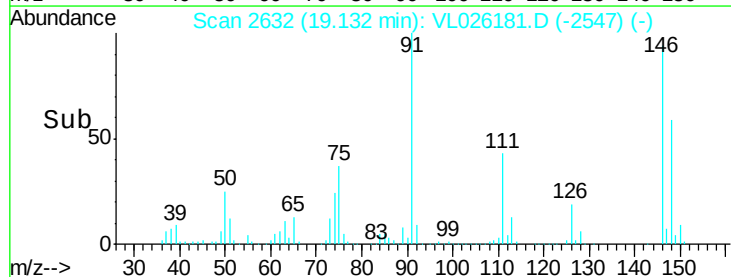
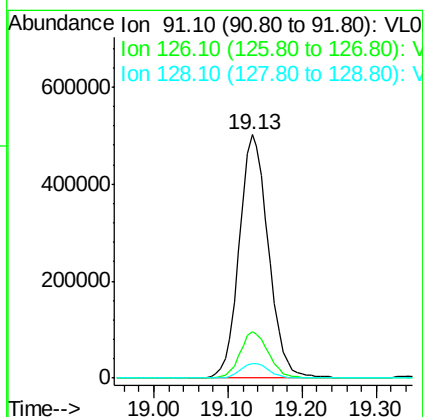
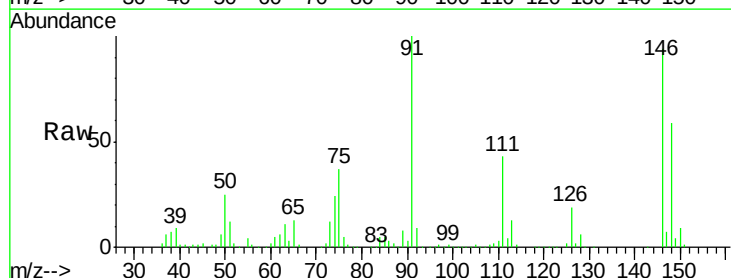
Manual Integrations
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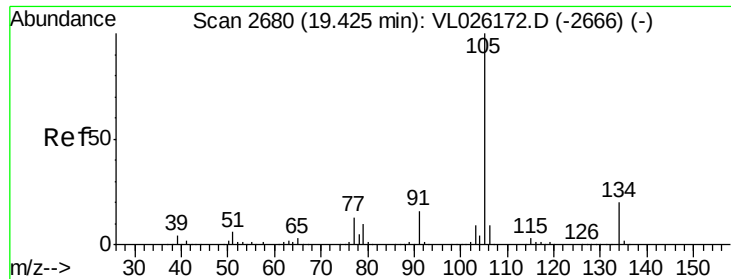
MMdadoda
 10/12/2015 1:24:21 PM



#66
 Benzyl Chloride
 Concen: 11.26 ppbv
 RT: 19.13 min Scan# 2632
 Delta R.T. 0.02 min
 Lab File: VL026181.D
 Acq: 9 Oct 2015 18:11

Tgt Ion: 91 Resp: 1374190
 Ion Ratio Lower Upper
 91 100
 126 18.7 15.2 22.8
 128 6.0 4.8 7.2





#67

sec-Butylbenzene

Concen: 9.37 ppbv

RT: 19.44 min Scan# 2683

Delta R.T. 0.02 min

Lab File: VL026181.D

Acq: 9 Oct 2015 18:11

Instrument :

MSVOA_L

ClientSampleId :

VL1009ABS01

Tot Ion: 105 Resp: 5365038

Ion Ratio Lower Upper

105 100

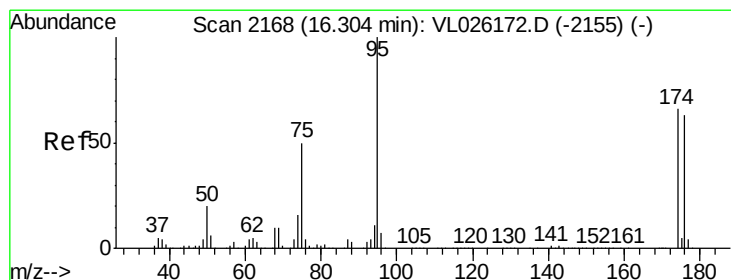
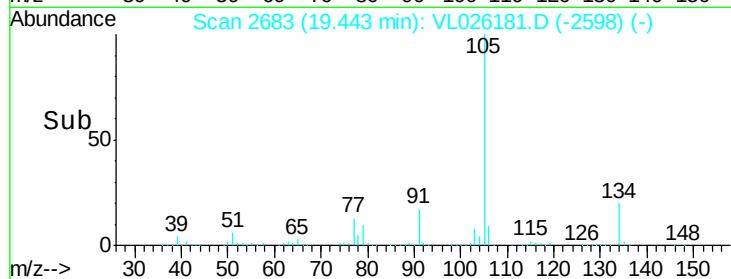
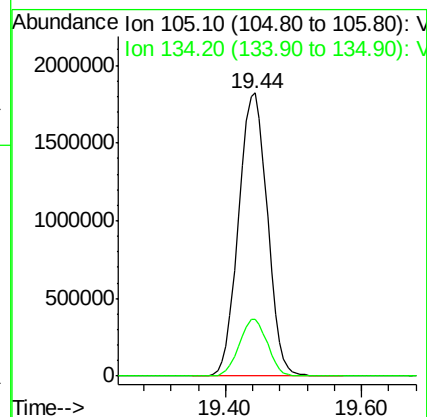
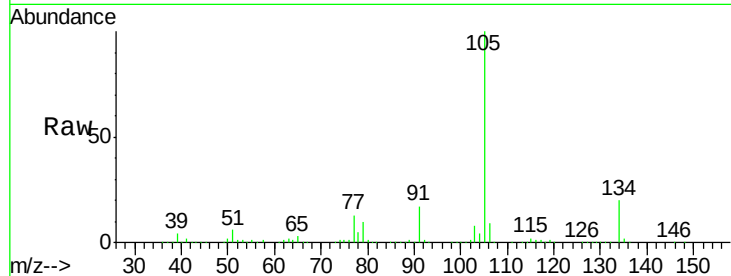
134 19.7 15.9 23.9

Manual Integrations

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MMdadoda

10/12/2015 1:24:21 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 10.31 ppbv

RT: 16.32 min Scan# 2171

Delta R.T. 0.02 min

Lab File: VL026181.D

Acq: 9 Oct 2015 18:11

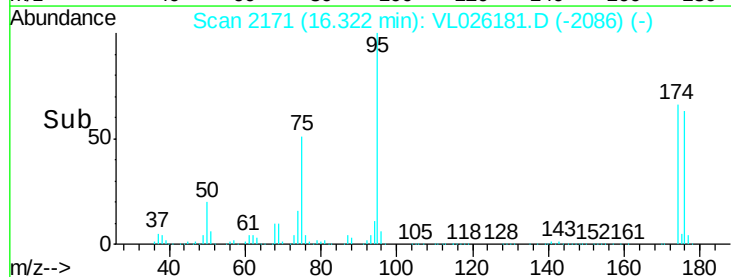
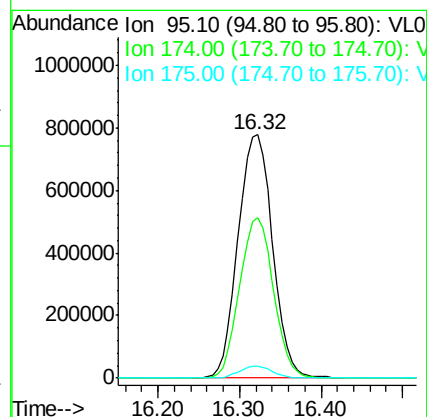
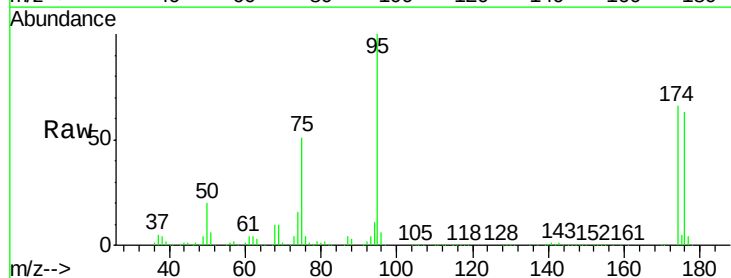
Tgt Ion: 95 Resp: 2288583

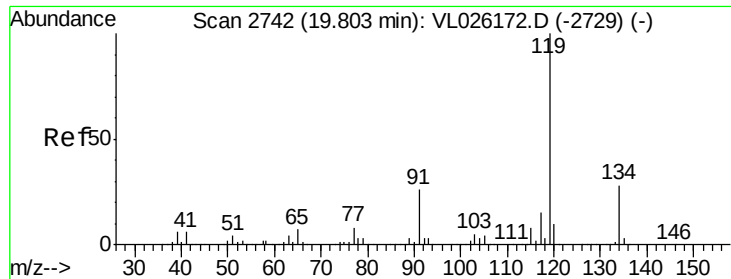
Ion Ratio Lower Upper

95 100

174 65.2 52.2 78.4

175 4.8 3.9 5.9





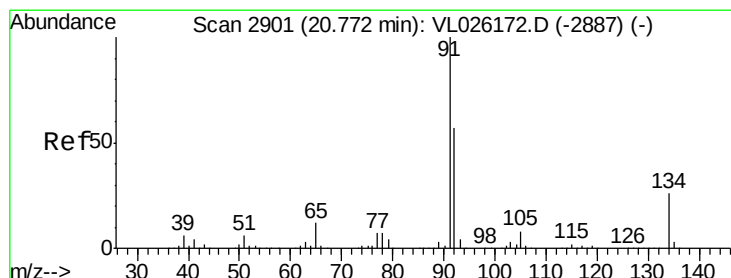
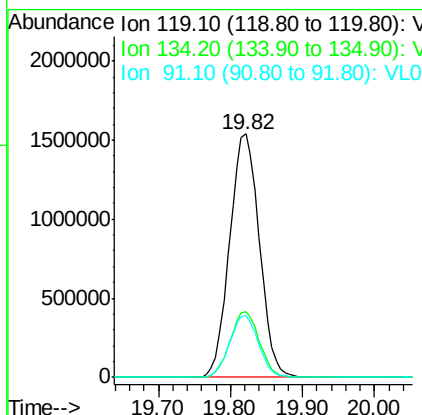
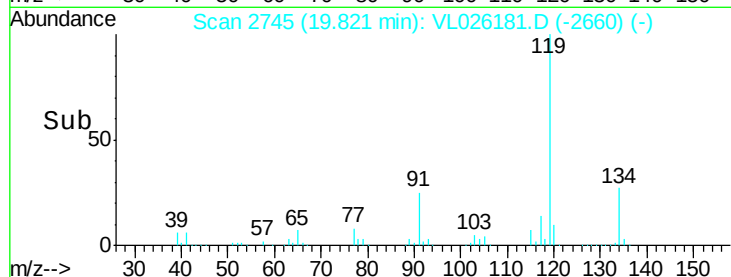
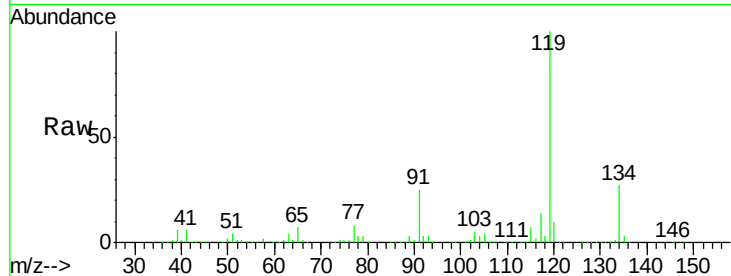
#69
p-Isopropyltoluene
Concen: 9.62 ppbv
RT: 19.82 min Scan# 2745
Delta R.T. 0.02 min
Lab File: VL026181.D
Acq: 9 Oct 2015 18:11

Instrument :
MSVOA_L
ClientSampleId :
VL1009ABS01

Tot Ion: 119 Resp: 4407676
Ion Ratio Lower Upper
119 100
134 26.6 21.4 32.0
91 24.7 19.9 29.9

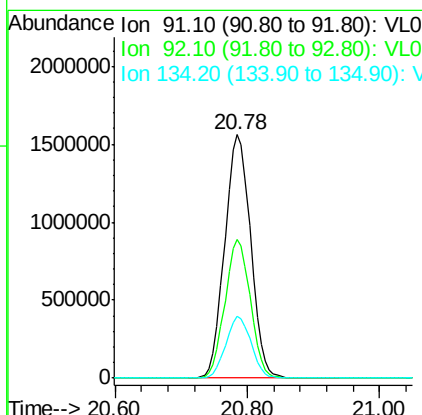
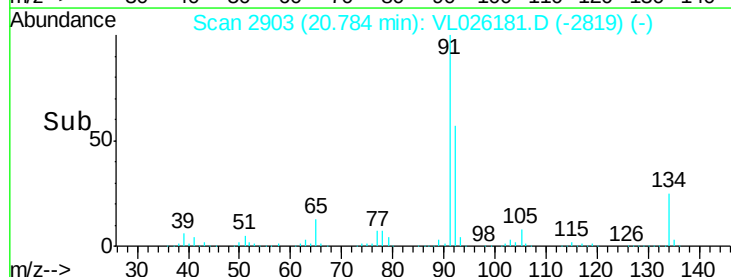
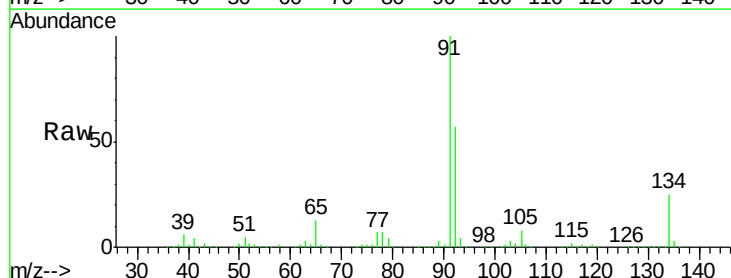
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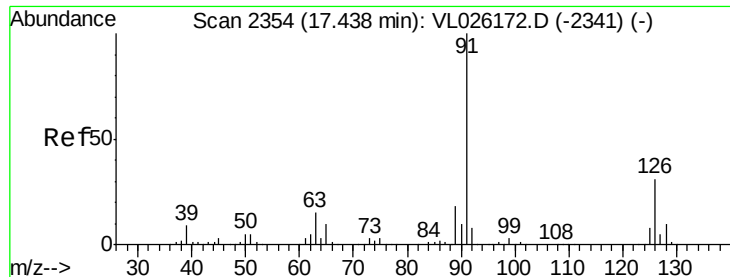
MMdadoda
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#70
n-Butylbenzene
Concen: 9.64 ppbv
RT: 20.78 min Scan# 2903
Delta R.T. 0.01 min
Lab File: VL026181.D
Acq: 9 Oct 2015 18:11

Tgt Ion: 91 Resp: 4232242
Ion Ratio Lower Upper
91 100
92 55.8 45.0 67.6
134 24.8 19.8 29.8





#71

2-Chlorotoluene

Concen: 9.67 ppbv

RT: 17.46 min Scan# 2357

Delta R.T. 0.02 min

Lab File: VL026181.D

Acq: 9 Oct 2015 18:11

Instrument :

MSVOA_L

ClientSampleId :

VL1009ABS01

Tot Ion: 91 Resp: 3286434

Ion Ratio Lower Upper

91 100

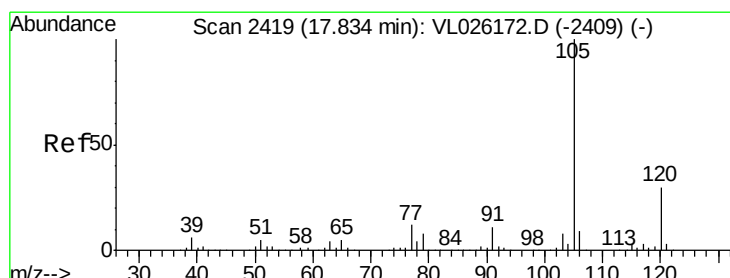
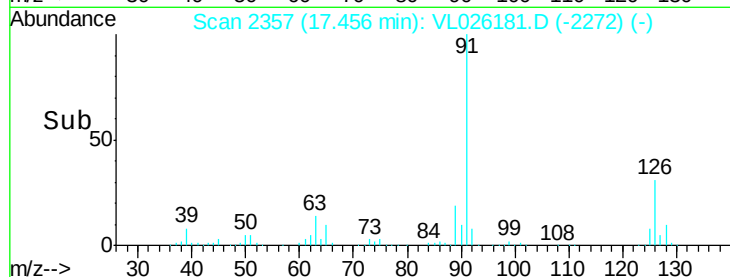
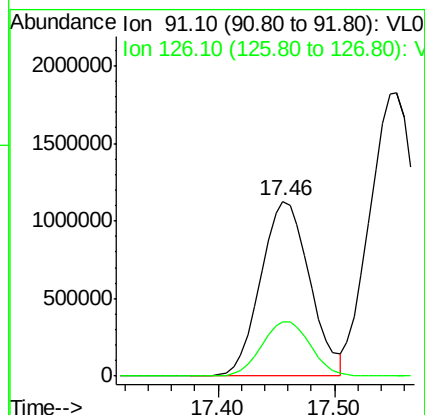
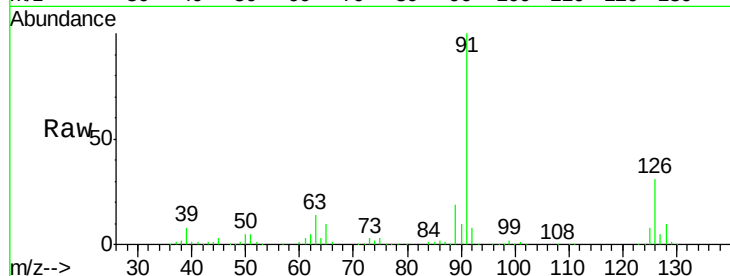
126 31.1 12.8 51.2

Manual Integrations

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#72

4-Ethyltoluene

Concen: 9.74 ppbv

RT: 17.85 min Scan# 2422

Delta R.T. 0.02 min

Lab File: VL026181.D

Acq: 9 Oct 2015 18:11

Tgt Ion:105 Resp: 3670636

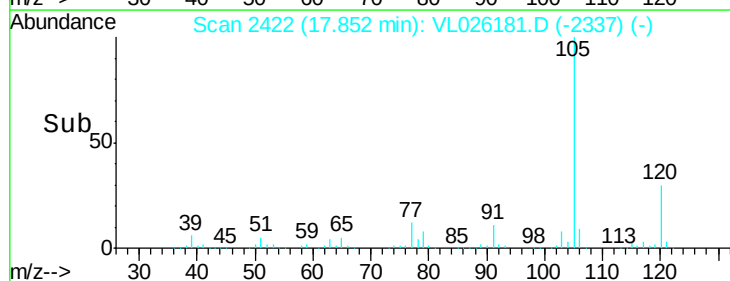
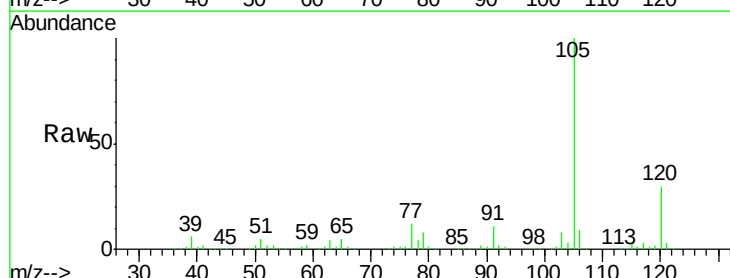
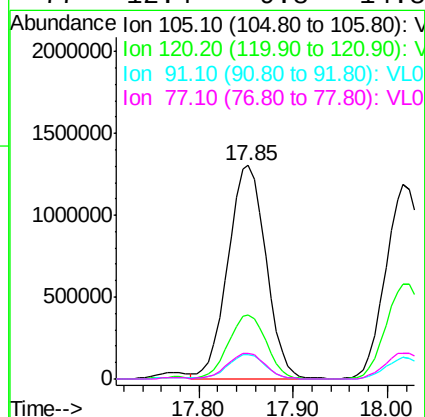
Ion Ratio Lower Upper

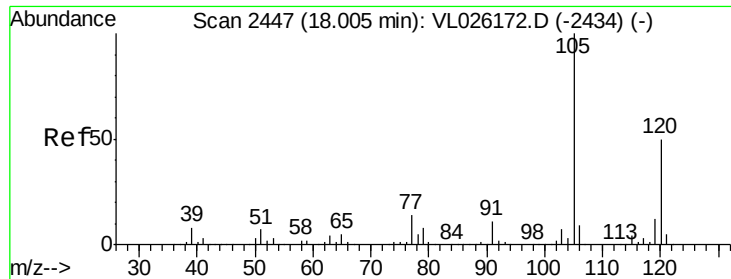
105 100

120 30.9 24.7 37.1

91 11.7 9.2 13.8

77 12.4 9.8 14.8





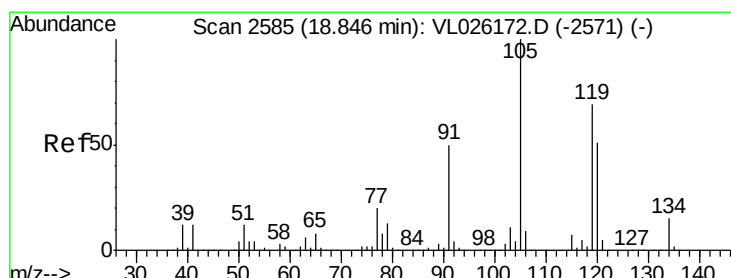
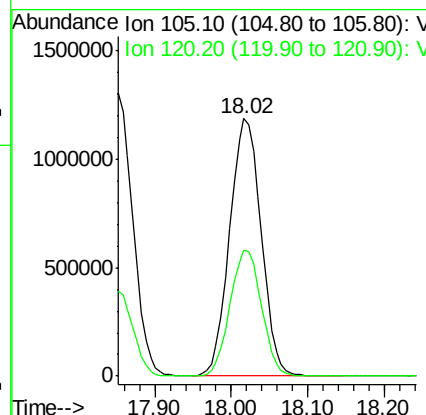
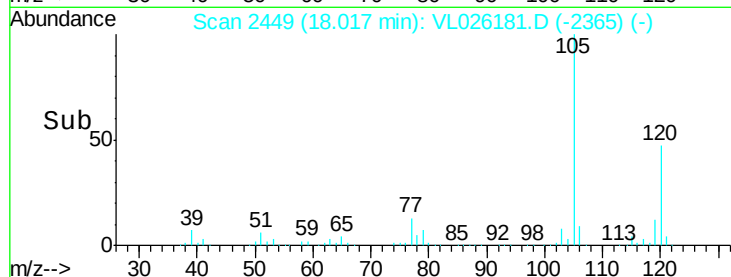
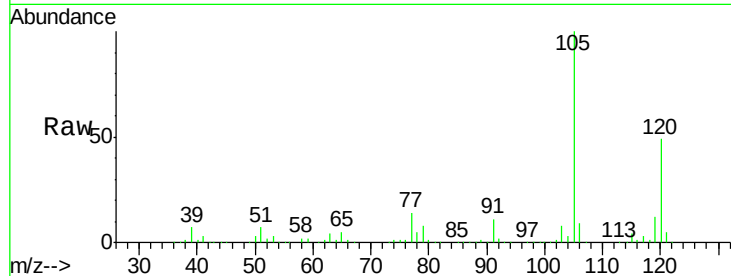
#73
 1,3,5-Trimethylbenzene
 Concen: 9.54 ppbv
 RT: 18.02 min Scan# 2449
 Delta R.T. 0.01 min
 Lab File: VL026181.D
 Acq: 9 Oct 2015 18:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1009ABS01

Tot Ion:105 Resp: 3379813
 Ion Ratio Lower Upper
 105 100
 120 48.6 40.1 60.1

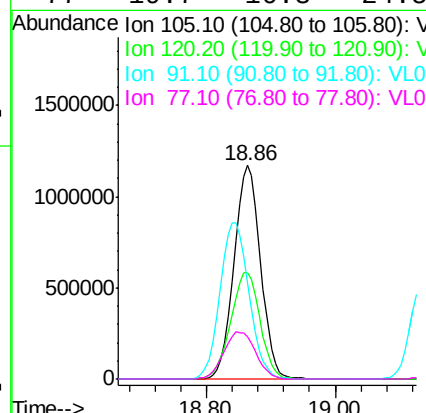
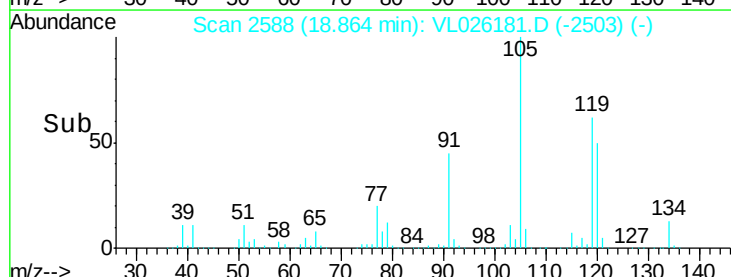
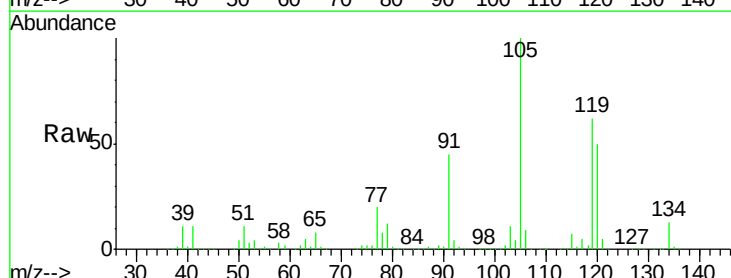
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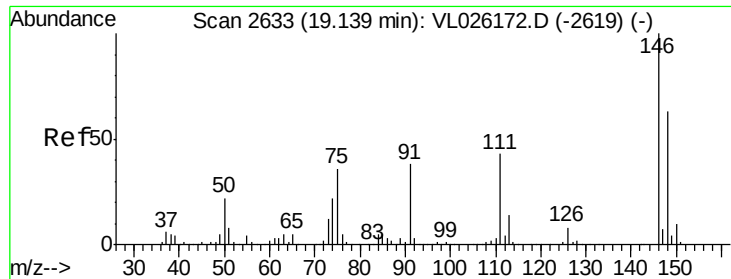
MMdadoda
 10/12/2015 1:24:21 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 9.05 ppbv
 RT: 18.86 min Scan# 2588
 Delta R.T. 0.02 min
 Lab File: VL026181.D
 Acq: 9 Oct 2015 18:11

Tgt Ion:105 Resp: 3360664
 Ion Ratio Lower Upper
 105 100
 120 49.9 41.1 61.7
 91 44.8 39.8 59.6
 77 19.7 16.3 24.5





#75

1,3-Dichlorobenzene

Concen: 9.13 ppbv

RT: 19.15 min Scan# 2635

Delta R.T. 0.01 min

Lab File: VL026181.D

Acq: 9 Oct 2015 18:11

Instrument :

MSVOA_L

ClientSampleId :

VL1009ABS01

Tot Ion:146 Resp: 2168971

Ion Ratio Lower Upper

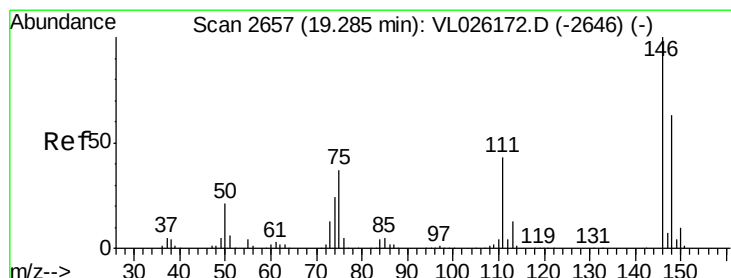
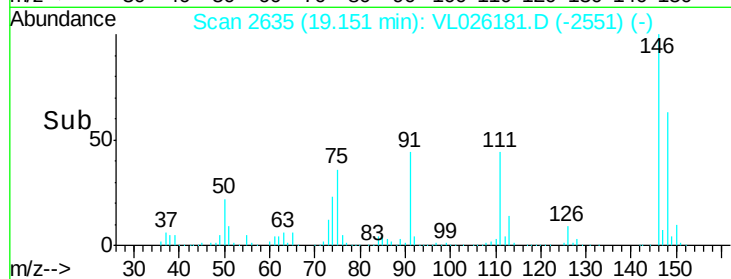
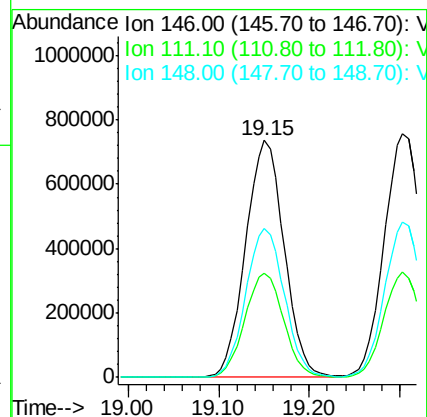
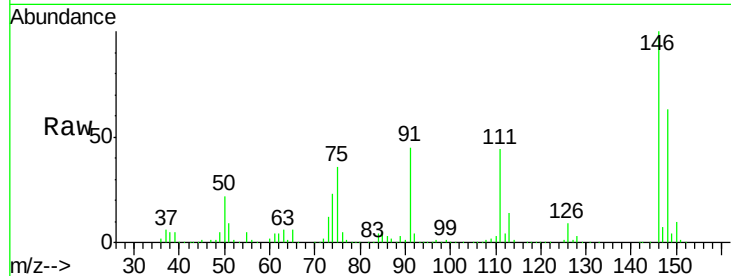
146 100

111 44.2 22.1 66.3

148 63.2 31.9 95.5

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#76

1,4-Dichlorobenzene

Concen: 9.29 ppbv

RT: 19.30 min Scan# 2660

Delta R.T. 0.02 min

Lab File: VL026181.D

Acq: 9 Oct 2015 18:11

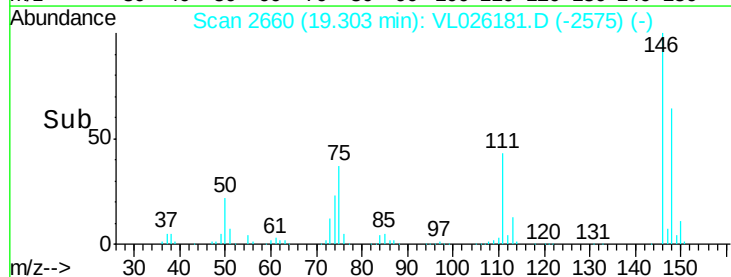
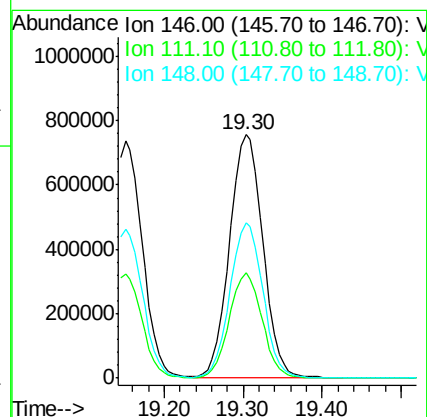
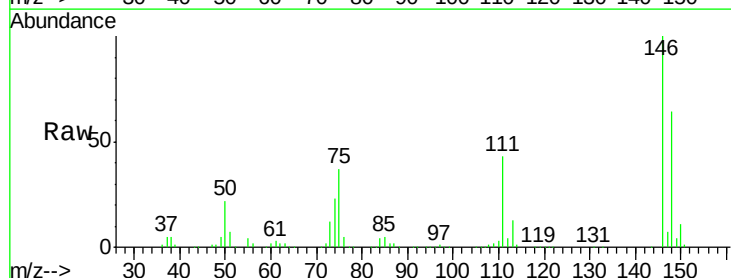
Tgt Ion:146 Resp: 2226803

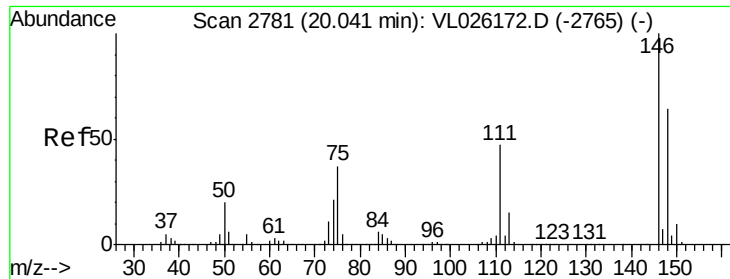
Ion Ratio Lower Upper

146 100

111 43.0 21.3 63.9

148 63.5 31.6 94.8





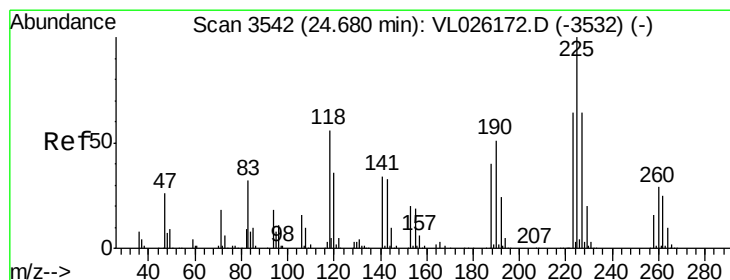
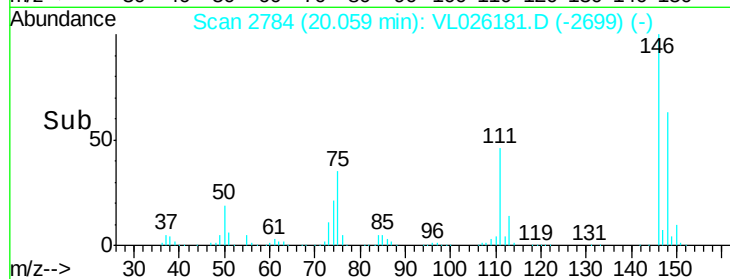
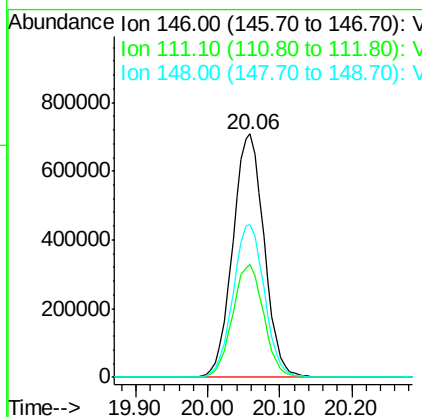
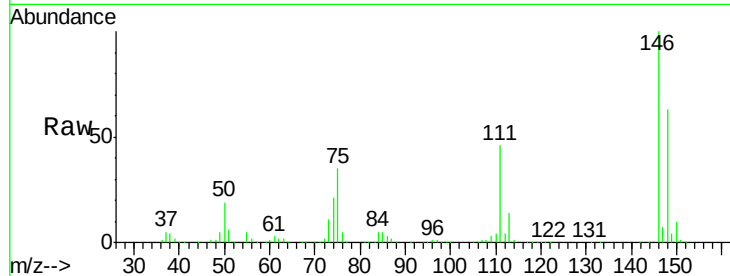
#77
 1,2-Dichlorobenzene
 Concen: 9.23 ppbv
 RT: 20.06 min Scan# 2784
 Delta R.T. 0.02 min
 Lab File: VL026181.D
 Acq: 9 Oct 2015 18:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1009ABS01

Tot Ion:146 Resp: 2144404
 Ion Ratio Lower Upper
 146 100
 111 45.9 23.0 69.0
 148 62.8 31.8 95.3

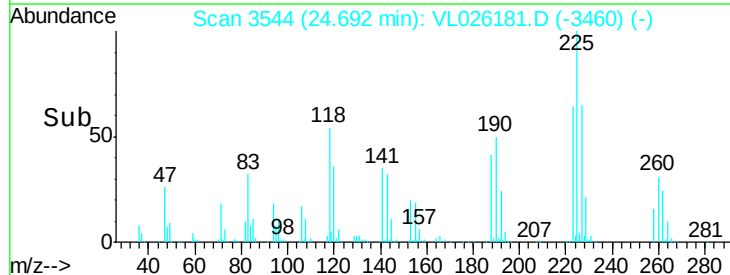
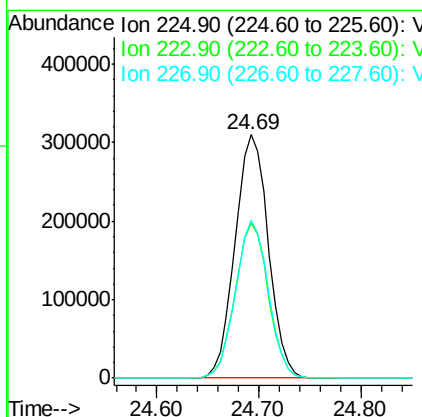
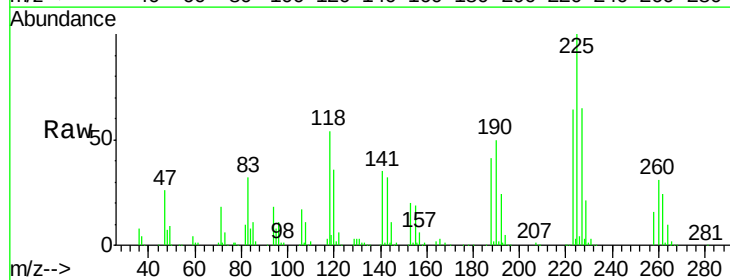
Manual Integrations
 APPROVED

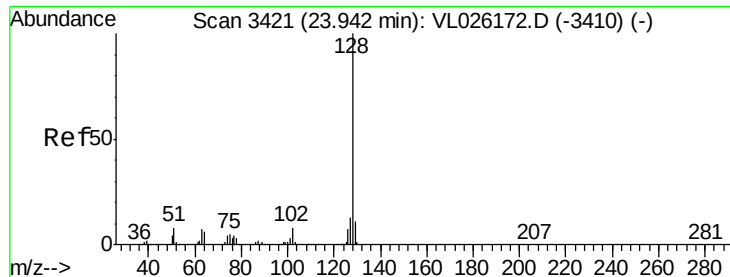
MMdadoda
 10/12/2015 1:24:21 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 7.55 ppbv
 RT: 24.69 min Scan# 3544
 Delta R.T. 0.01 min
 Lab File: VL026181.D
 Acq: 9 Oct 2015 18:11

Tgt Ion:225 Resp: 703461
 Ion Ratio Lower Upper
 225 100
 223 63.2 51.1 76.7
 227 63.6 50.8 76.2





#79

Naphthalene

Concen: 8.89 ppbv

RT: 23.95 min Scan# 3423

Delta R.T. 0.01 min

Lab File: VL026181.D

Acq: 9 Oct 2015 18:11

Instrument :

MSVOA_L

ClientSampleId :

VL1009ABS01

Tot Ion:128 Resp: 2072870

Ion Ratio Lower Upper

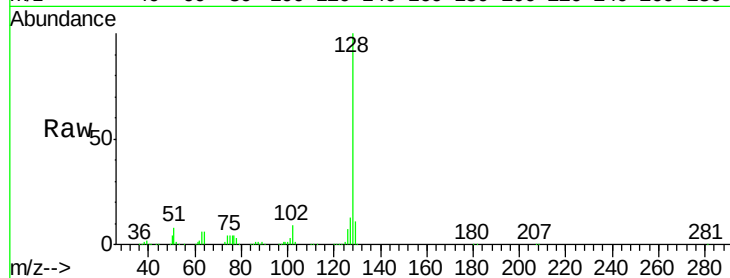
128 100

127 12.7 10.2 15.2

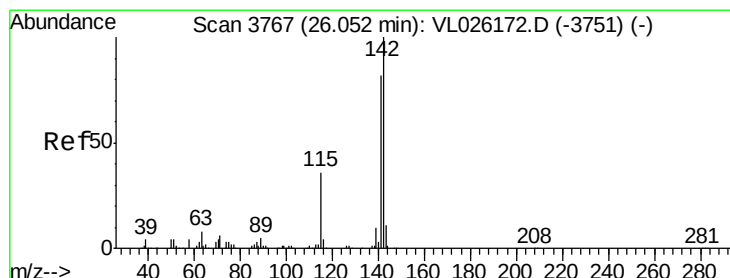
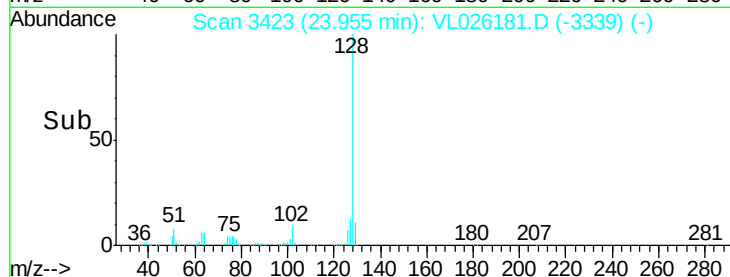
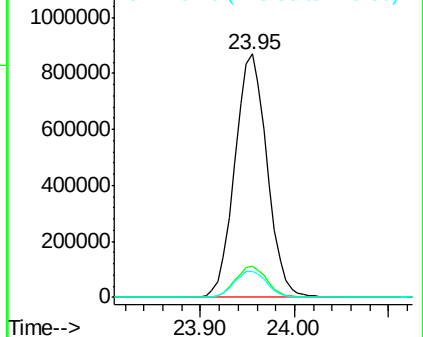
129 10.9 8.7 13.1

Manual Integrations
APPROVED

MMdadoda
10/12/2015 1:24:21 PM



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: 7.16 ppbv

RT: 26.06 min Scan# 3769

Delta R.T. 0.01 min

Lab File: VL026181.D

Acq: 9 Oct 2015 18:11

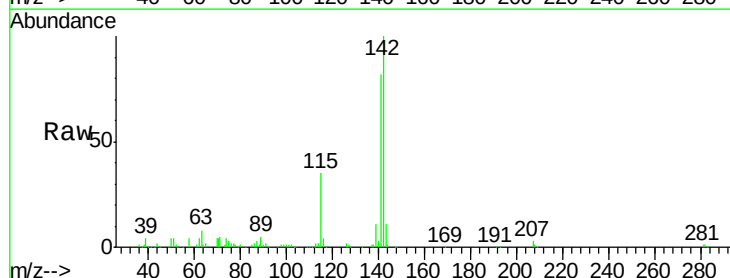
Tgt Ion:142 Resp: 374620

Ion Ratio Lower Upper

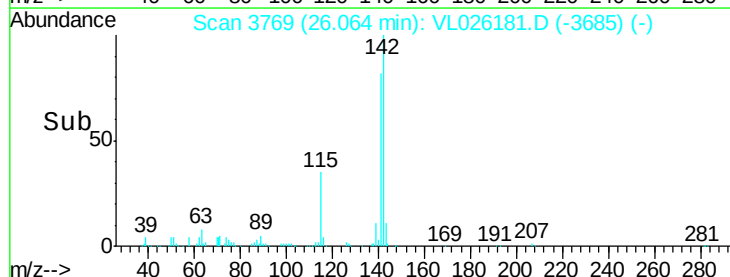
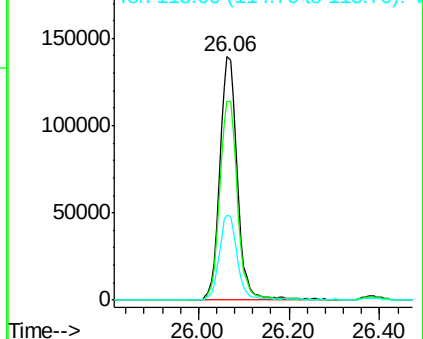
142 100

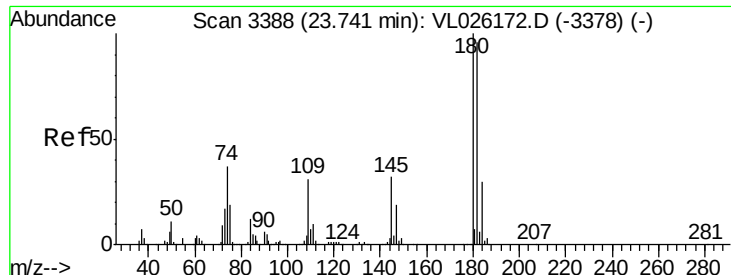
141 83.5 66.6 99.8

115 36.1 28.4 42.6



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: 8.52 ppbv
 RT: 23.76 min Scan# 3391
 Delta R.T. 0.02 min
 Lab File: VL026181.D
 Acq: 9 Oct 2015 18:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1009ABS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	984541		
182	96.5		76.4	114.6
184	30.4		24.0	36.0

Manual Integrations
 APPROVED

MMdadoda
 10/12/2015 1:24:21 PM

