

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL070715\
 Data File : VL025604.D
 Acq On : 7 Jul 2015 10:32
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDICCC010

Manual Integrations
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sam
 7/8/2015 11:04:19 AM

Quant Time: Jul 07 13:07:58 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL070715AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun 0
 QLast Update : Wed Jun 03 16:25:57 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.65	49	698565	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	8.33	114	1889486	10.00	ppbv	0.02
55) Chlorobenzene-d5	13.75	117	2583494m	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.29	95	2076293	9.73	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.30%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.64	85	1811069	11.18	ppbv	99
3) Chlorodifluoromethane	3.57	51	871894	10.38	ppbv	95
4) Chloromethane	3.75	50	406463	9.31	ppbv	99
5) Vinyl Chloride	3.89	62	447795	9.21	ppbv	99
6) Bromomethane	4.14	94	350245	10.61	ppbv	100
7) Chloroethane	4.24	64	203212	10.08	ppbv	100
8) Dichlorotetrafluoroethane	3.81	85	1389255	10.61	ppbv	100
9) Propene	3.59	41	310512	8.85	ppbv	99
10) Heptane	9.35	43	1199846	9.60	ppbv	98
11) Trichlorofluoromethane	4.69	101	2039038	11.93	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	5.31	101	1172362	11.37	ppbv	99
13) Ethanol	4.33	45	49580	7.83	ppbv	99
14) Bromoethene	4.45	108	396594	10.78	ppbv	97
15) Acetone	4.60	43	992011	9.64	ppbv	98
16) 1,3-Butadiene	3.97	39	445813	9.84	ppbv	99
17) tert-Butyl alcohol	5.12	59	1038312	11.80	ppbv	99
18) 1,1-Dichloroethene	5.09	96	470111	11.05	ppbv	99
19) Isopropyl Alcohol	4.75	45	491434	10.50	ppbv	99
20) Methylene Chloride	5.15	84	425808	9.53	ppbv	99
21) Allyl Chloride	5.23	41	698988	10.38	ppbv	89
22) trans-1,2-Dichloroethene	5.76	96	485499	9.79	ppbv	98
23) Vinyl Acetate	5.98	43	1846094	10.23	ppbv	98
24) 1,1-Dichloroethane	5.91	63	1121573	9.55	ppbv	100
25) Ethyl Acetate	6.67	43	1742817	9.41	ppbv	100
26) Hexane	6.66	57	818941	9.39	ppbv	96
27) Carbon Disulfide	5.39	76	1336703	11.10	ppbv	95
28) Methyl tert-Butyl Ether	5.95	73	1727436	10.64	ppbv	97
29) Chloroform	6.75	83	1517106	10.47	ppbv	97
30) Cyclohexane	8.29	84	782845	9.84	ppbv	97
31) cis-1,2-Dichloroethene	6.52	61	865634	10.36	ppbv	98
32) 1,1,1-Trichloroethane	7.60	97	1731710	10.59	ppbv	99
34) 2-Butanone	6.20	43	1036534	9.21	ppbv	99
35) Carbon Tetrachloride	8.17	117	1845919	10.81	ppbv	99
36) Benzene	8.02	78	1733249	9.29	ppbv	98
37) 1,2-Dichloroethane	7.37	62	1415811	10.91	ppbv	98
38) Trichloroethene	9.07	130	786669	9.76	ppbv	98
39) 1,2-Dichloropropane	8.83	63	622947	8.99	ppbv	92
40) 1,4-Dioxane	9.12	88	155145	10.09	ppbv	90
41) Tetrahydrofuran	7.12	42	553490	9.16	ppbv	97
42) Bromodichloromethane	9.02	83	1758463	10.81	ppbv	98
43) Methyl Methacrylate	9.27	69	731256	10.54	ppbv	100

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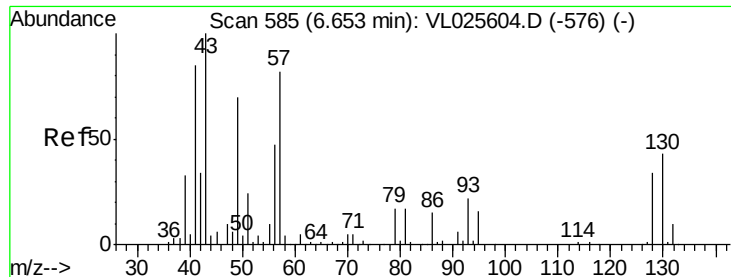
Manual Integrations
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Quant Time: Jul 07 13:07:58 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL070715AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun 0
 QLast Update : Wed Jun 03 16:25:57 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.09	57	2971392	9.23	ppbv	97
45) t-1,3-Dichloropropene	10.65	75	1301387	11.99	ppbv	98
46) cis-1,3-Dichloropropene	10.02	75	1401870	11.12	ppbv	95
47) 1,1,2-Trichloroethane	10.88	97	866229	9.98	ppbv	97
48) Dibromochloromethane	11.80	129	1622341	11.62	ppbv	99
49) Bromoform	14.82	173	1356483	12.14	ppbv	99
50) 4-Methyl-2-Pentanone	10.09	43	1584151	10.39	ppbv	99
51) 2-Hexanone	11.62	43	1533554	11.24	ppbv #	98
52) Tetrachloroethene	12.79	164	902348	10.55	ppbv	99
53) Toluene	11.24	91	2581496	10.50	ppbv	99
54) 1,2-Dibromoethane	12.15	107	1413534	10.64	ppbv	99
56) 1,1,1,2-Tetrachloroethane	13.79	131	1190424	9.70	ppbv	97
57) Chlorobenzene	13.82	112	2303588	9.10	ppbv	100
58) Ethyl Benzene	14.41	91	4080838	9.92	ppbv	98
59) m/p-Xylene	14.72	91	6632941	19.30	ppbv	99
60) o-Xylene	15.49	91	3530013	9.67	ppbv	99
61) Styrene	15.31	104	1515839	10.89	ppbv	99
62) Isopropylbenzene	16.55	105	4725972	9.82	ppbv	99
63) 1,1,2,2-Tetrachloroethane	15.49	83	2245738	8.68	ppbv	100
64) n-propylbenzene	17.52	120	1261699	9.90	ppbv	93
65) tert-Butylbenzene	18.82	119	4450473	9.95	ppbv	100
66) Benzyl Chloride	19.11	91	1951032	12.75	ppbv	100
67) sec-Butylbenzene	19.41	105	6289270	10.00	ppbv	98
69) p-Isopropyltoluene	19.79	119	5269633	10.30	ppbv	99
70) n-Butylbenzene	20.76	91	5205666	10.45	ppbv	98
71) 2-Chlorotoluene	17.43	91	3549459	9.91	ppbv	100
72) 4-Ethyltoluene	17.82	105	4081923	10.22	ppbv	100
73) 1,3,5-Trimethylbenzene	17.99	105	3932238	10.22	ppbv	96
74) 1,2,4-Trimethylbenzene	18.83	105	4120028	9.93	ppbv	98
75) 1,3-Dichlorobenzene	19.12	146	2612100	9.88	ppbv	100
76) 1,4-Dichlorobenzene	19.28	146	2685671	10.15	ppbv	99
77) 1,2-Dichlorobenzene	20.03	146	2657048	10.12	ppbv	99
78) Hexachloro-1,3-Butadiene	24.67	225	1461221	10.85	ppbv	99
79) Naphthalene	23.92	128	3836910	11.29	ppbv	100
80) Naphthalene, 2-methyl-	26.04	142	1066120	12.23	ppbv	98
81) 1,2,4-Trichlorobenzene	23.73	180	1800550	11.38	ppbv	100

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.65 min Scan# 585

Delta R.T. 0.02 min

Lab File: VL025604.D

Acq: 7 Jul 2015 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 49 Resp: 698565

Ion Ratio Lower Upper

49 100

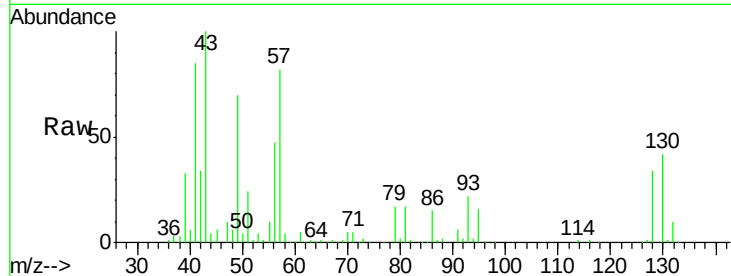
128 50.7 23.8 71.4

130 63.9 30.3 90.9

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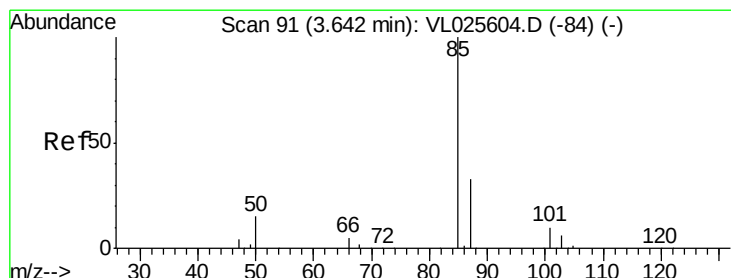
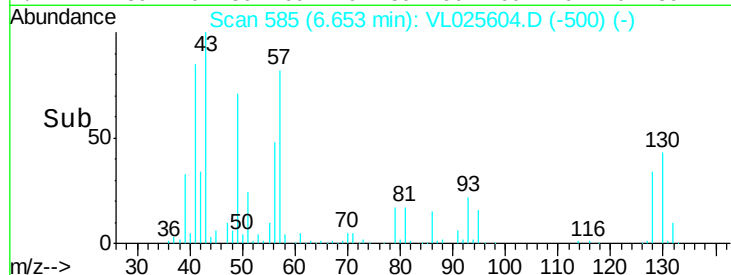
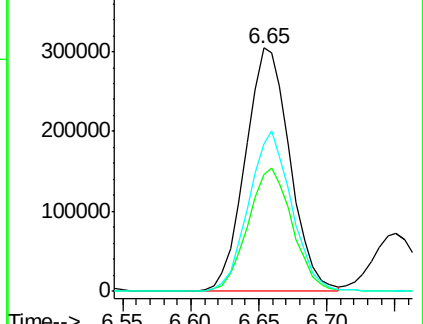
7/8/2015 11:04:19 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 11.18 ppbv

RT: 3.64 min Scan# 91

Delta R.T. 0.01 min

Lab File: VL025604.D

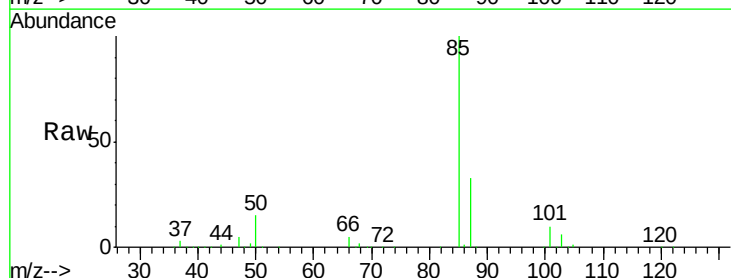
Acq: 7 Jul 2015 10:32

Tgt Ion: 85 Resp: 1811069

Ion Ratio Lower Upper

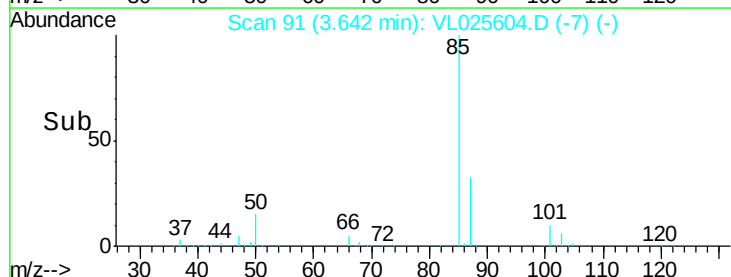
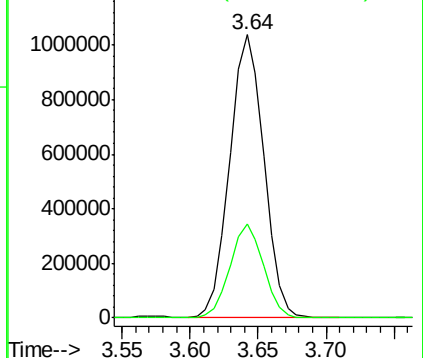
85 100

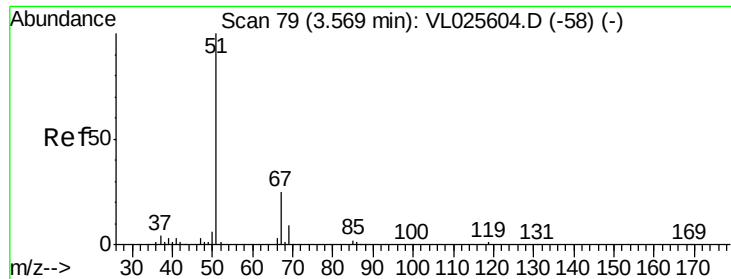
87 33.1 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 10.38 ppbv

RT: 3.57 min Scan# 79

Delta R.T. 0.01 min

Lab File: VL025604.D

Acq: 7 Jul 2015 10:32

Tot Ion: 51 Resp: 871894

Ion Ratio Lower Upper

51 100

67 24.4 17.6 26.4

Instrument :

MSVOA_L

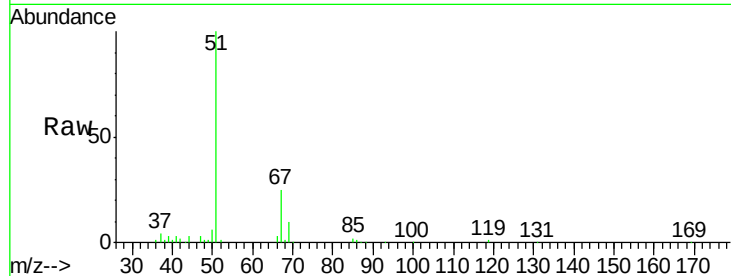
ClientSampleId :

VSTDICCC010

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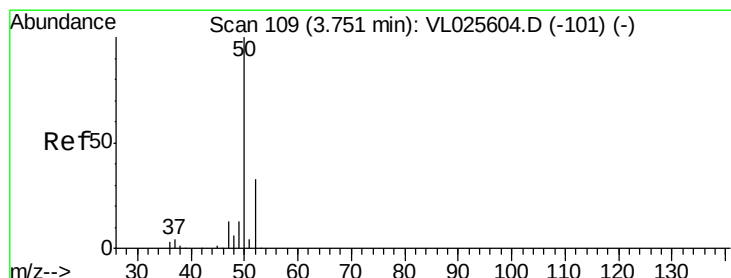
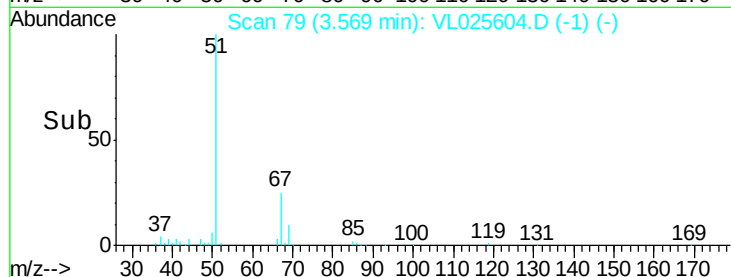
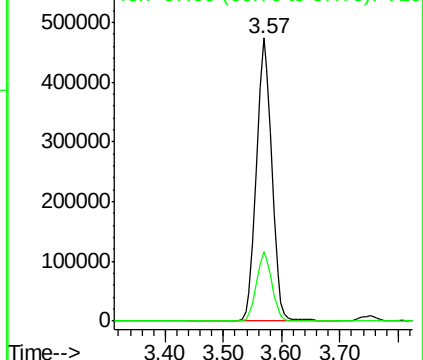
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.31 ppbv

RT: 3.75 min Scan# 109

Delta R.T. 0.02 min

Lab File: VL025604.D

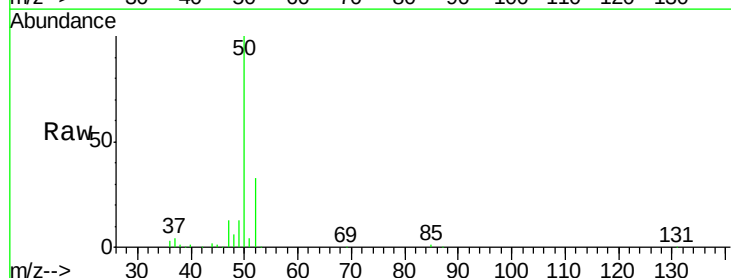
Acq: 7 Jul 2015 10:32

Tgt Ion: 50 Resp: 406463

Ion Ratio Lower Upper

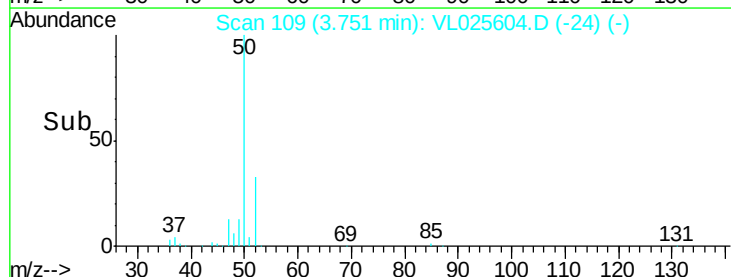
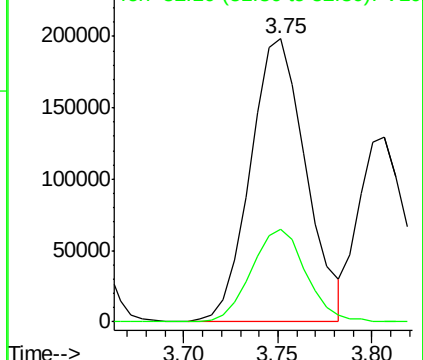
50 100

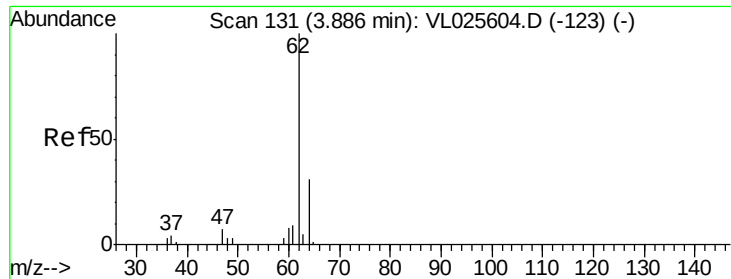
52 32.7 26.6 39.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.21 ppbv

RT: 3.89 min Scan# 131

Delta R.T. 0.01 min

Lab File: VL025604.D

Acq: 7 Jul 2015 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 62 Resp: 447795

Ion Ratio Lower Upper

62 100

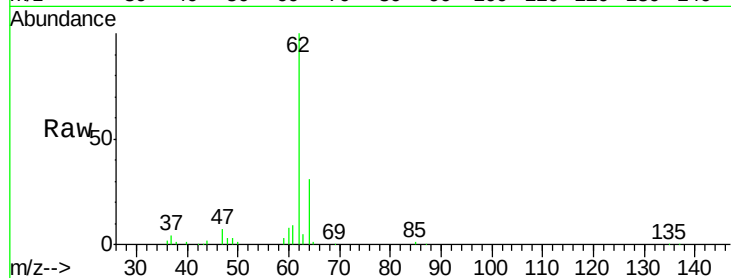
64 31.3 25.4 38.0

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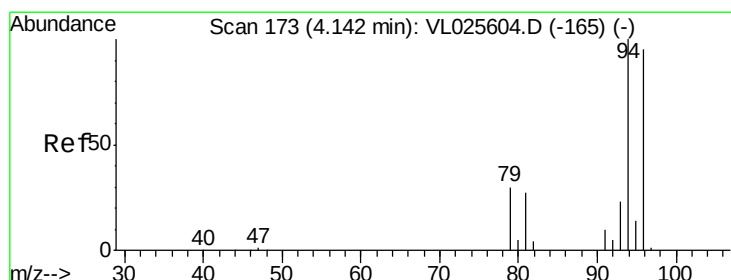
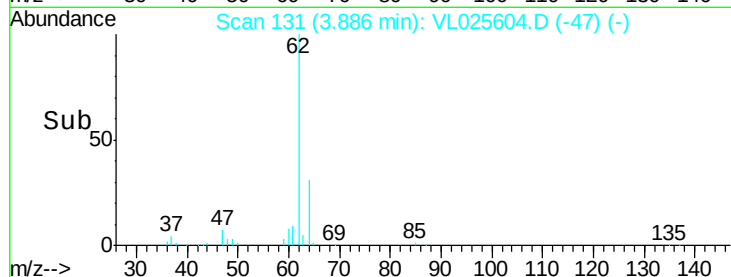
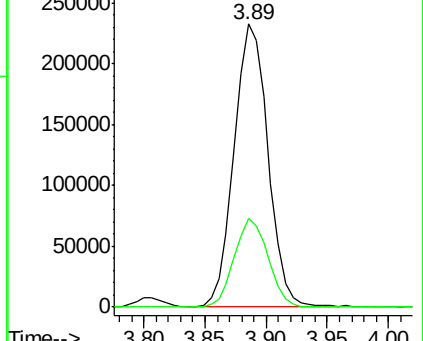
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.61 ppbv

RT: 4.14 min Scan# 173

Delta R.T. 0.01 min

Lab File: VL025604.D

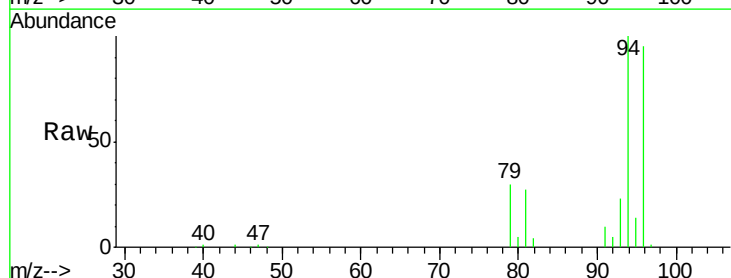
Acq: 7 Jul 2015 10:32

Tgt Ion: 94 Resp: 350245

Ion Ratio Lower Upper

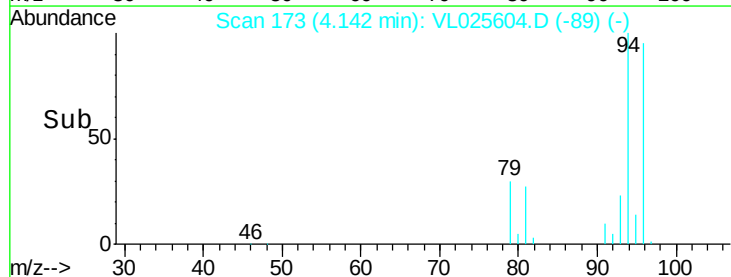
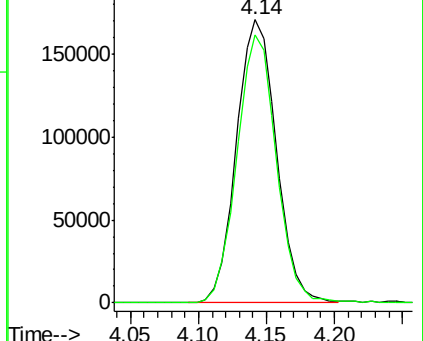
94 100

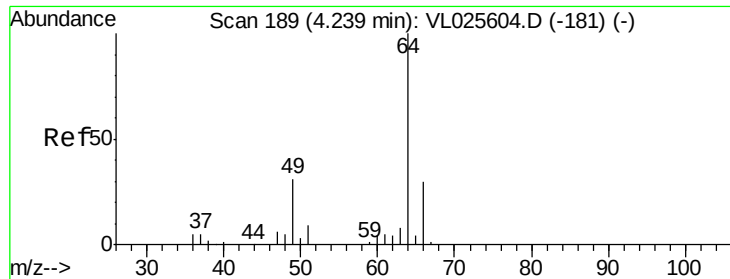
96 94.9 76.2 114.4



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.08 ppbv

RT: 4.24 min Scan# 189

Delta R.T. 0.02 min

Lab File: VL025604.D

Acq: 7 Jul 2015 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 64 Resp: 203212

Ion Ratio Lower Upper

64 100

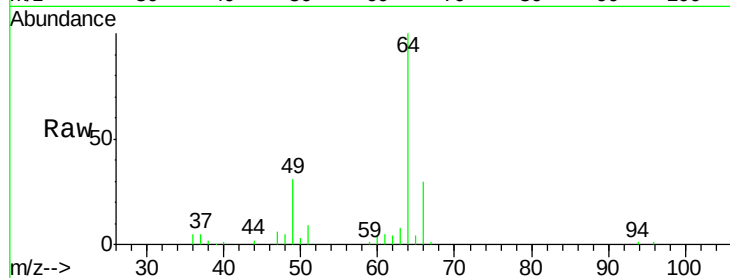
66 29.8 24.0 36.0

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7/8/2015 11:04:19 AM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

4.24

120000

100000

80000

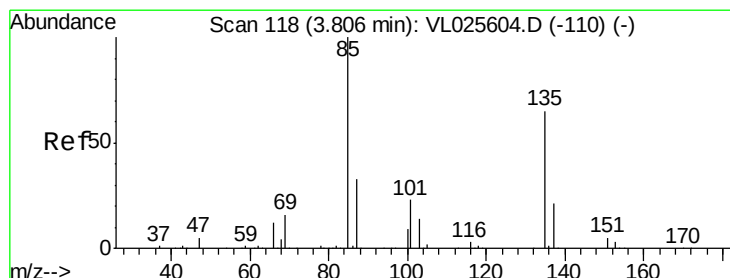
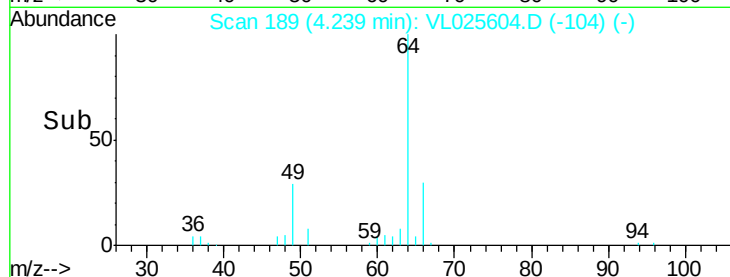
60000

40000

20000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 10.61 ppbv

RT: 3.81 min Scan# 118

Delta R.T. 0.02 min

Lab File: VL025604.D

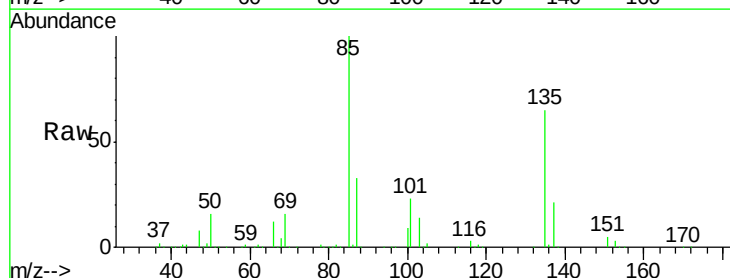
Acq: 7 Jul 2015 10:32

Tgt Ion: 85 Resp: 1389255

Ion Ratio Lower Upper

85 100

135 65.3 52.5 78.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.81

800000

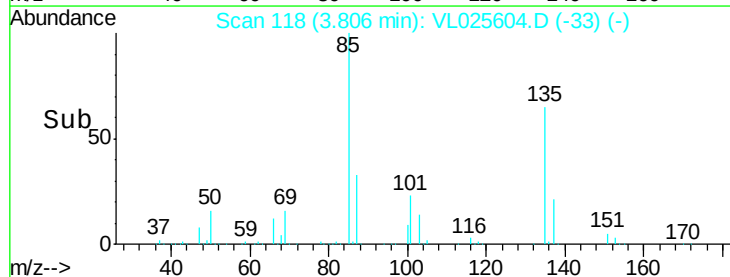
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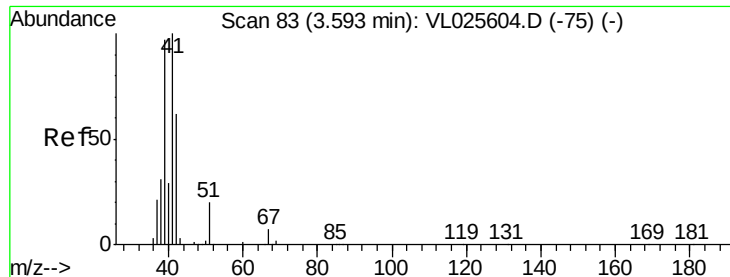
400000

200000

0

Time-->





#9

Propene

Concen: 8.85 ppbv

RT: 3.59 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL025604.D

Acq: 7 Jul 2015 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 41 Resp: 310512

Ion Ratio Lower Upper

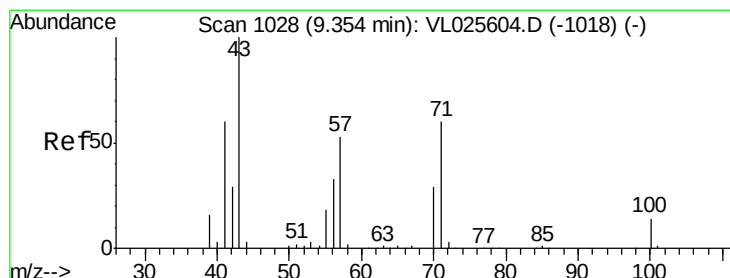
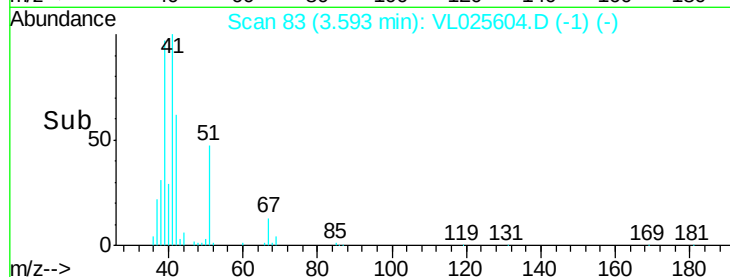
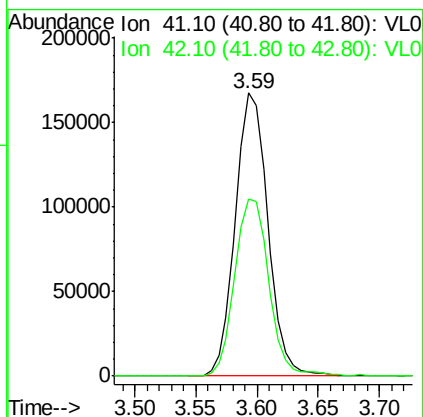
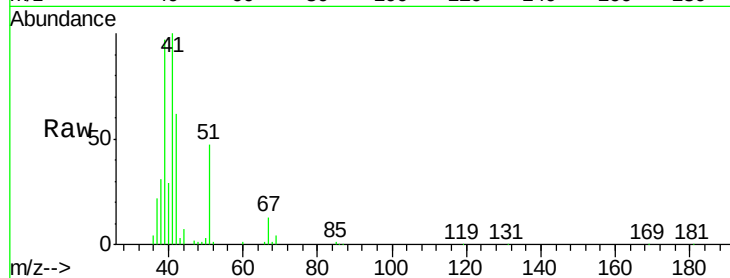
41 100

42 65.5 51.9 77.9

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#10

Heptane

Concen: 9.60 ppbv

RT: 9.35 min Scan# 1028

Delta R.T. 0.02 min

Lab File: VL025604.D

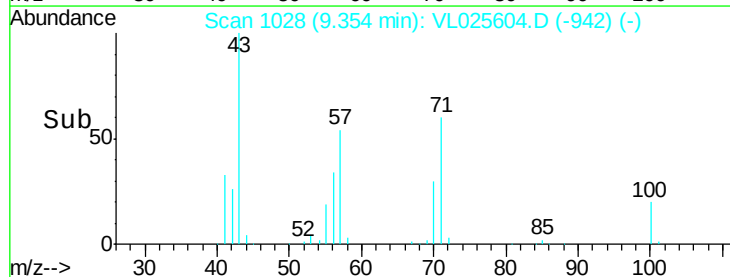
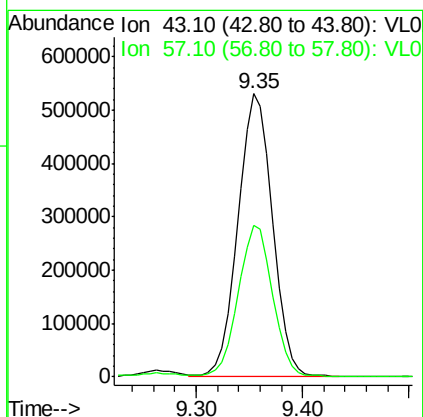
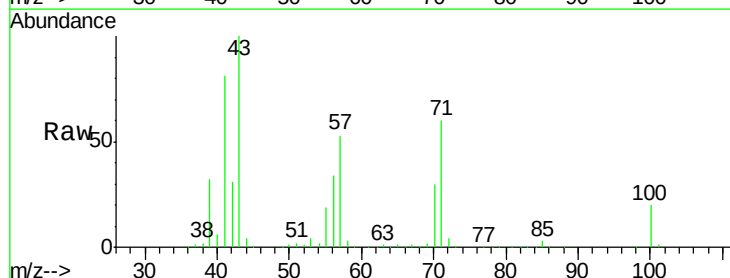
Acq: 7 Jul 2015 10:32

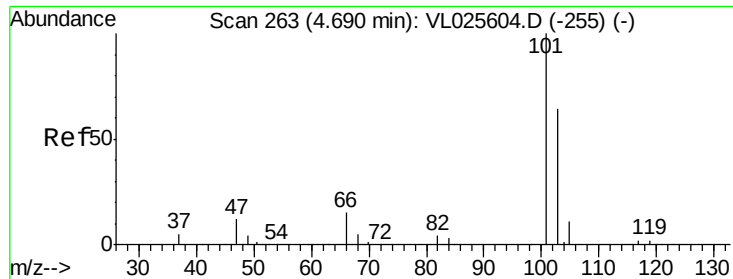
Tgt Ion: 43 Resp: 1199846

Ion Ratio Lower Upper

43 100

57 53.3 41.5 62.3





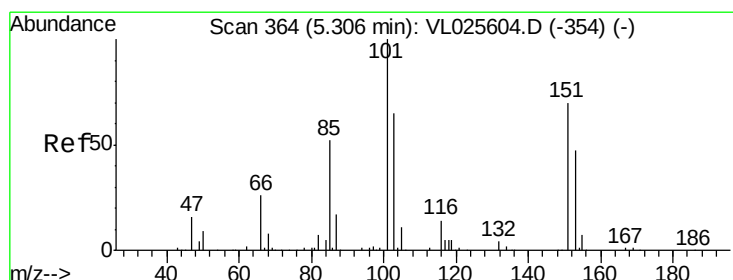
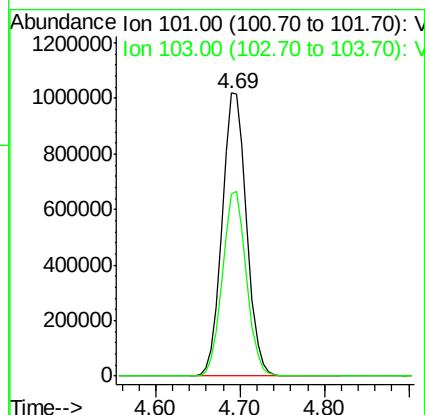
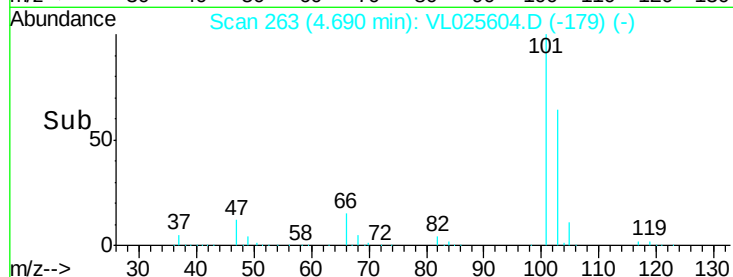
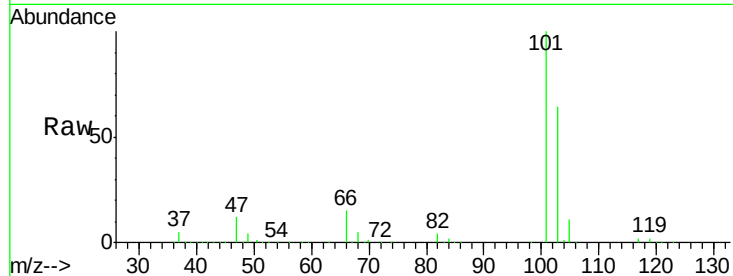
#11
 Trichlorofluoromethane
 Concen: 11.93 ppbv
 RT: 4.69 min Scan# 263
 Delta R.T. 0.01 min
 Lab File: VL025604.D
 Acq: 7 Jul 2015 10:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:101 Resp: 2039038
 Ion Ratio Lower Upper
 101 100
 103 64.3 52.4 78.6

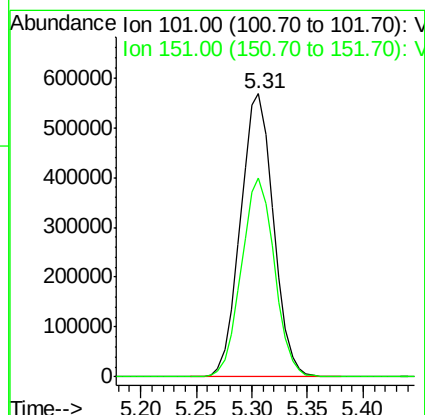
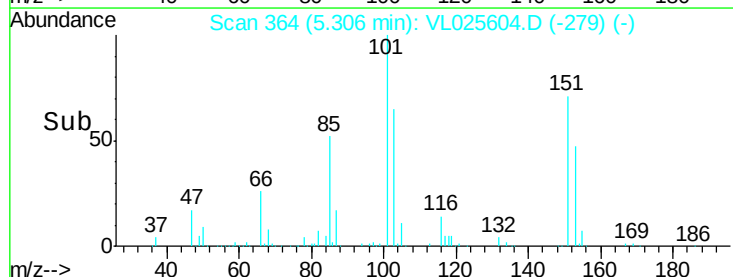
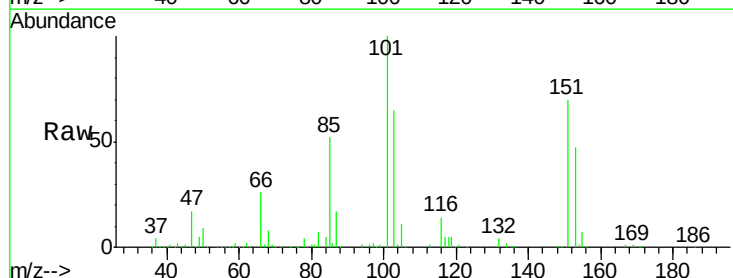
Manual Integrations
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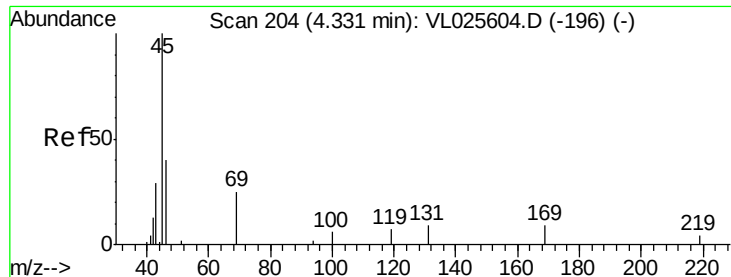
sam
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 11.37 ppbv
 RT: 5.31 min Scan# 364
 Delta R.T. 0.02 min
 Lab File: VL025604.D
 Acq: 7 Jul 2015 10:32

Tgt Ion:101 Resp: 1172362
 Ion Ratio Lower Upper
 101 100
 151 70.4 57.3 85.9





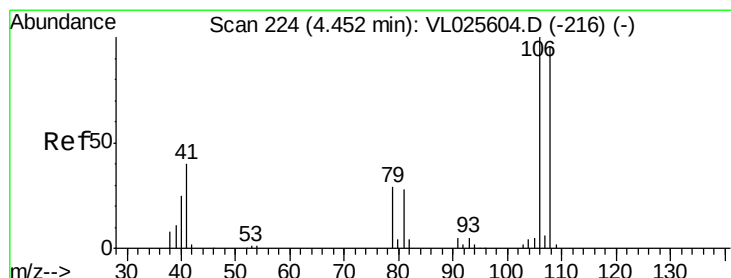
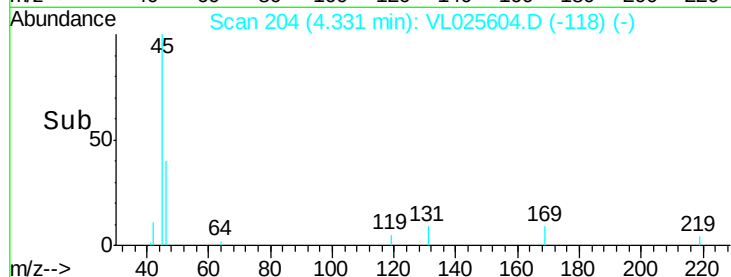
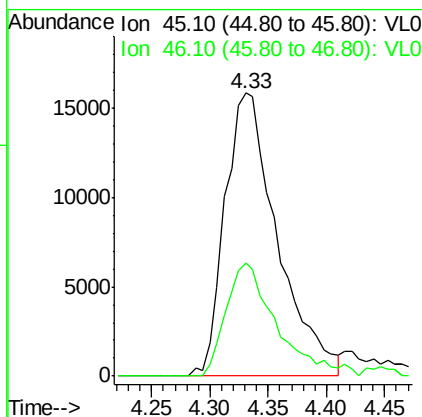
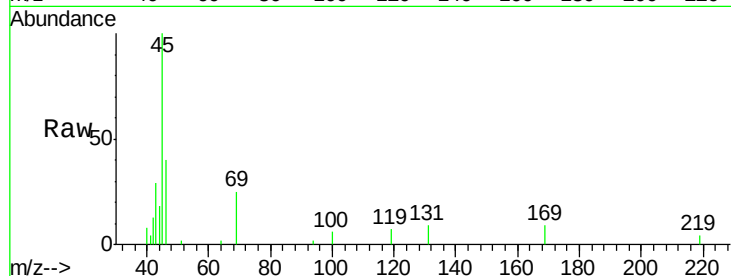
#13
Ethanol
Concen: 7.83 ppbv
RT: 4.33 min Scan# 204
Delta R.T. 0.02 min
Lab File: VL025604.D
Acq: 7 Jul 2015 10:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 45 Resp: 49580
Ion Ratio Lower Upper
45 100
46 40.0 15.8 63.0

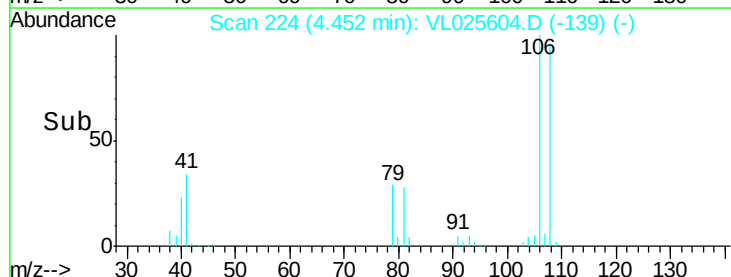
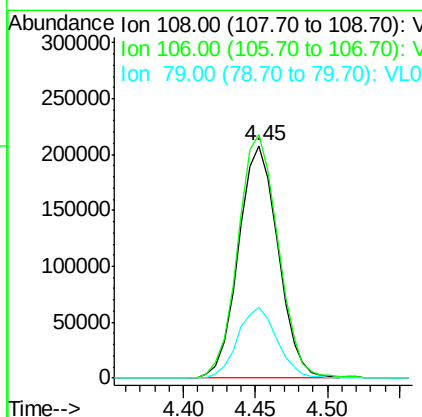
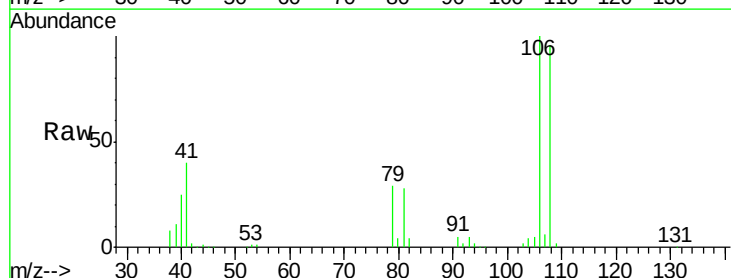
Manual Integrations
APPROVED

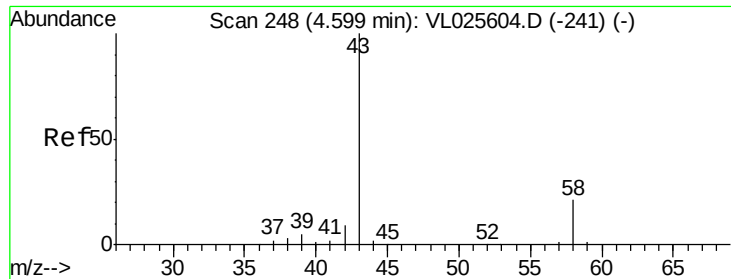
sam
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#14
Bromoethene
Concen: 10.78 ppbv
RT: 4.45 min Scan# 224
Delta R.T. 0.02 min
Lab File: VL025604.D
Acq: 7 Jul 2015 10:32

Tgt Ion: 108 Resp: 396594
Ion Ratio Lower Upper
108 100
106 107.1 84.6 127.0
79 30.7 20.6 31.0





#15

Acetone

Concen: 9.64 ppbv

RT: 4.60 min Scan# 248

Delta R.T. 0.02 min

Lab File: VL025604.D

Acq: 7 Jul 2015 10:32

Tot Ion: 43 Resp: 992011

Ion Ratio Lower Upper

43 100

58 21.5 17.8 26.6

Instrument :

MSVOA_L

ClientSampleId :

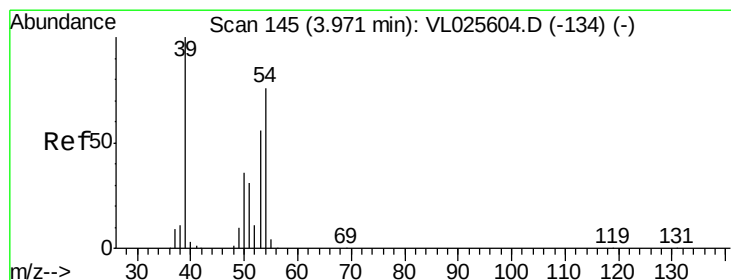
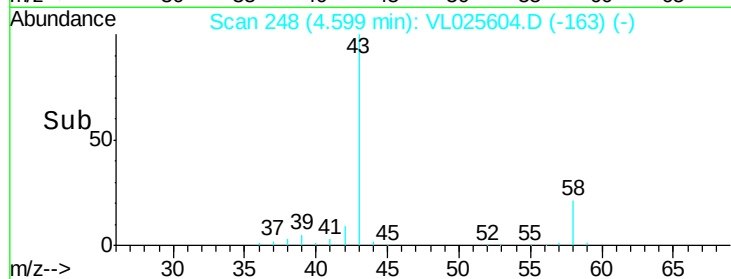
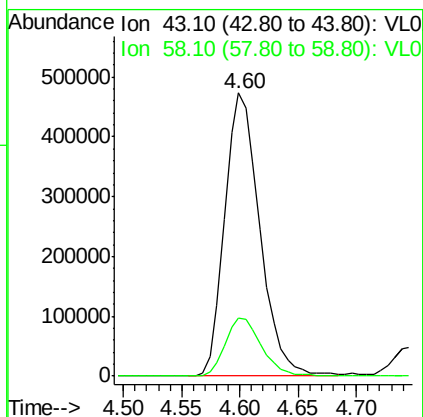
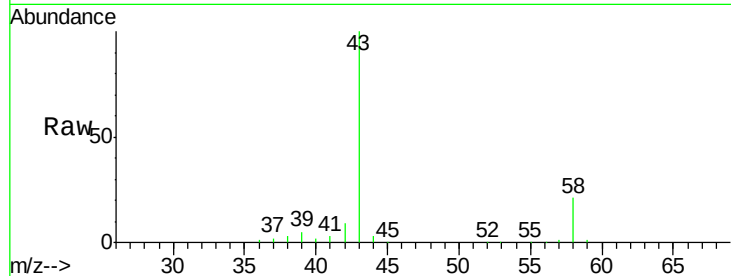
VSTDICCC010

Manual Integrations

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7/8/2015 11:04:19 AM



#16

1,3-Butadiene

Concen: 9.84 ppbv

RT: 3.97 min Scan# 145

Delta R.T. 0.02 min

Lab File: VL025604.D

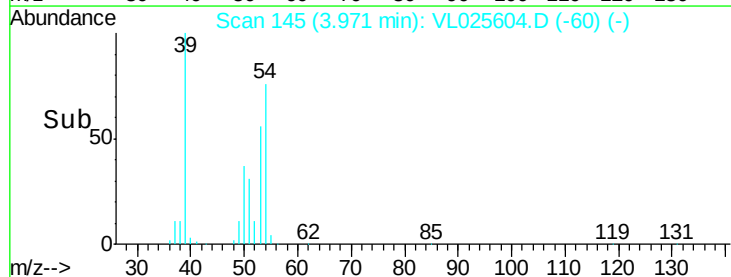
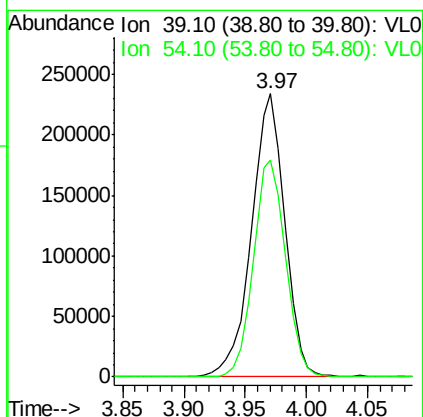
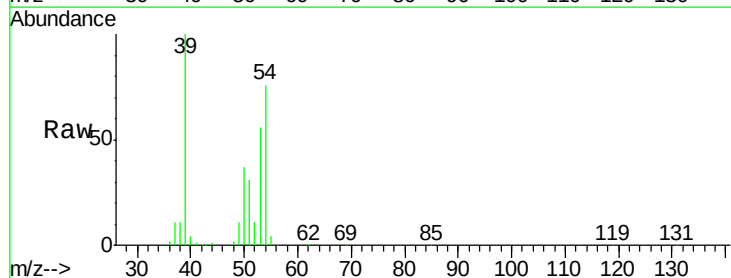
Acq: 7 Jul 2015 10:32

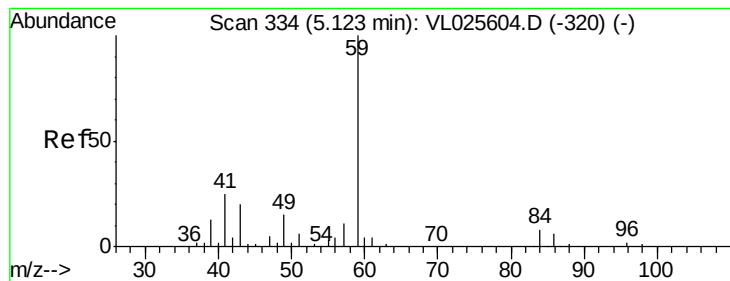
Tgt Ion: 39 Resp: 445813

Ion Ratio Lower Upper

39 100

54 74.1 59.8 89.8





#17

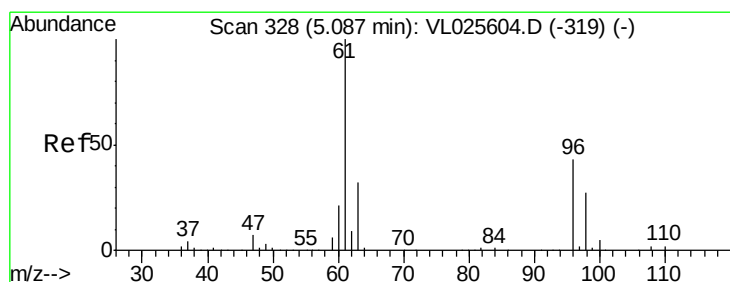
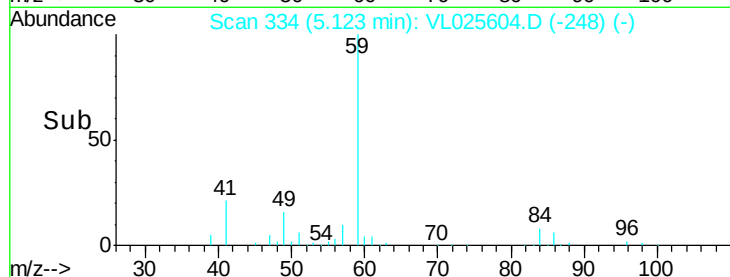
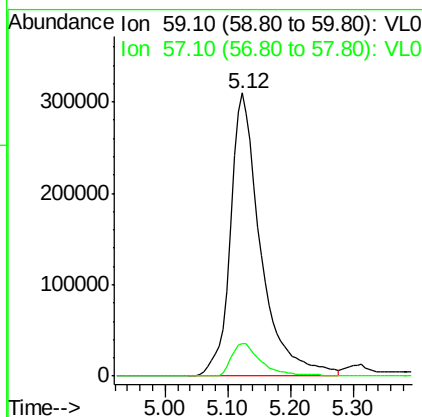
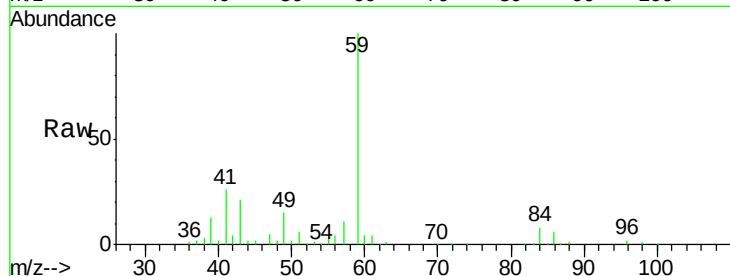
tert-Butyl alcohol
Concen: 11.80 ppbv
RT: 5.12 min Scan# 334
Delta R.T. 0.02 min
Lab File: VL025604.D
Acq: 7 Jul 2015 10:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 59 Resp: 1038312
Ion Ratio Lower Upper
59 100
57 11.8 9.0 13.6

Manual Integrations
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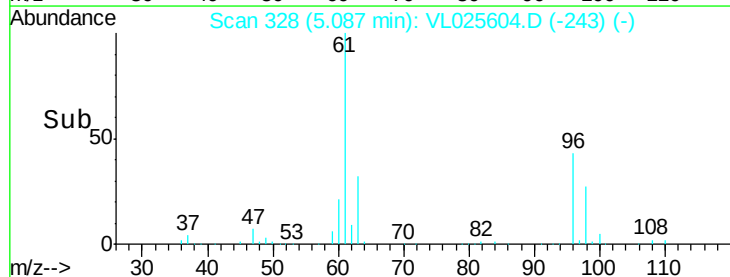
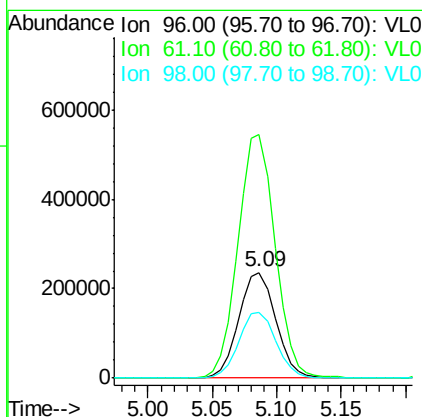
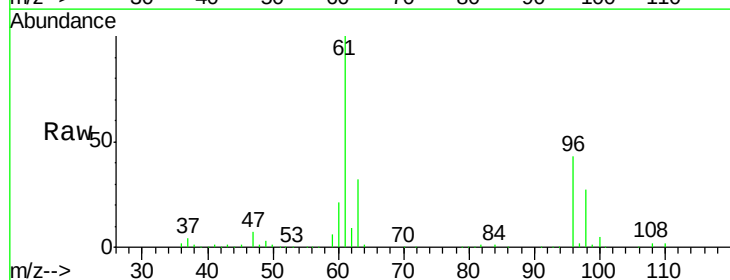
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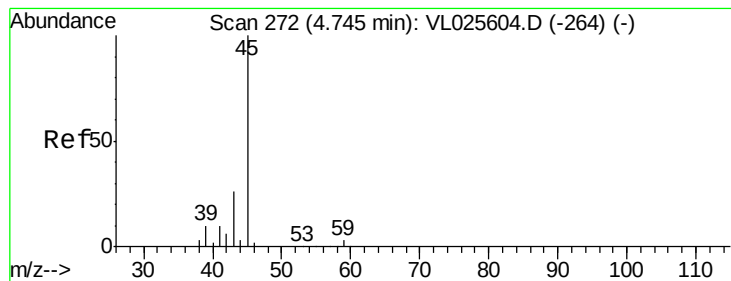


#18

1,1-Dichloroethene
Concen: 11.05 ppbv
RT: 5.09 min Scan# 328
Delta R.T. 0.02 min
Lab File: VL025604.D
Acq: 7 Jul 2015 10:32

Tgt Ion: 96 Resp: 470111
Ion Ratio Lower Upper
96 100
61 230.1 183.5 275.3
98 62.5 51.2 76.8





#19

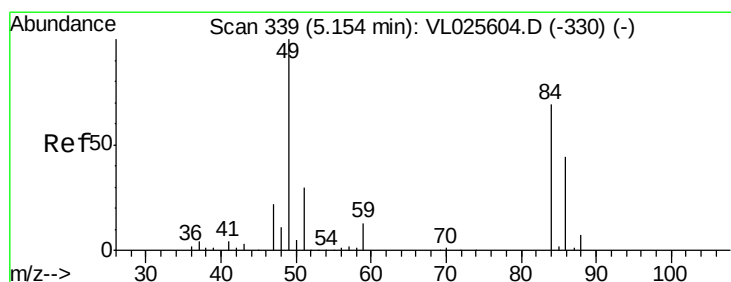
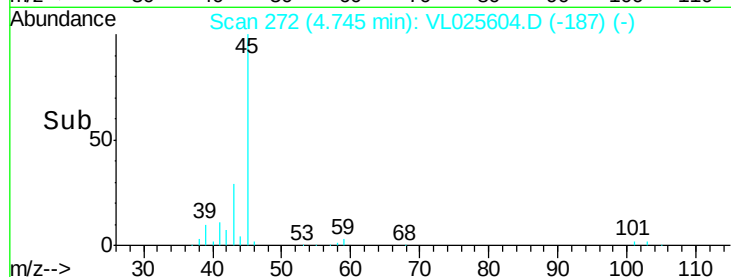
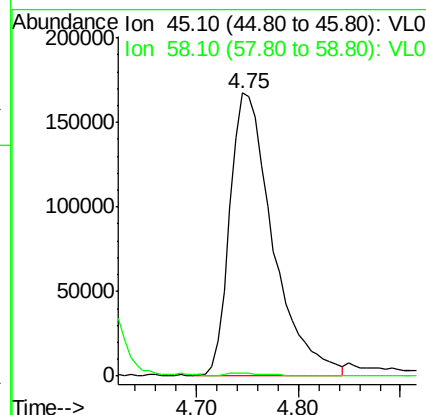
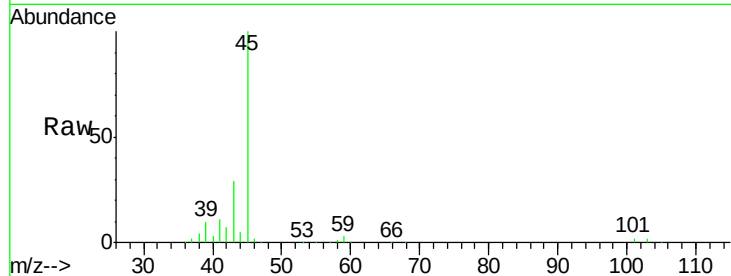
Isopropyl Alcohol
 Concen: 10.50 ppbv
 RT: 4.75 min Scan# 272
 Delta R.T. 0.02 min
 Lab File: VL025604.D
 Acq: 7 Jul 2015 10:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	45	58	Ratio	Lower	Upper
45	100				
58	1.4		1.3	1.9	

Manual Integrations
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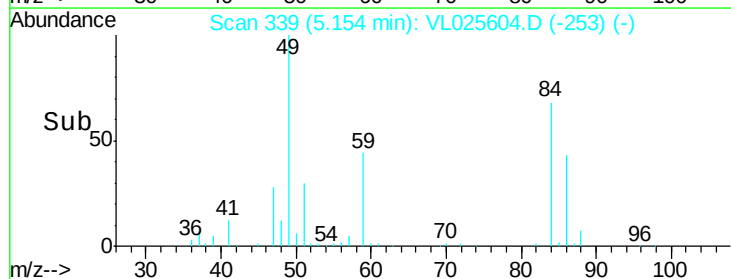
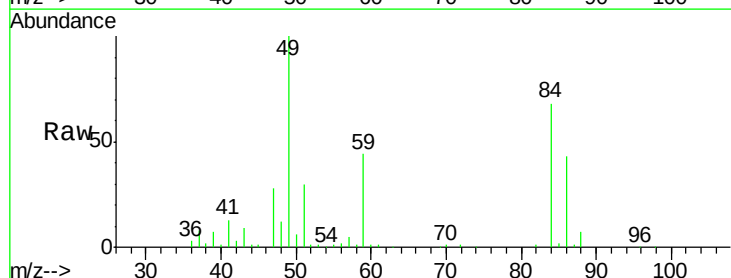
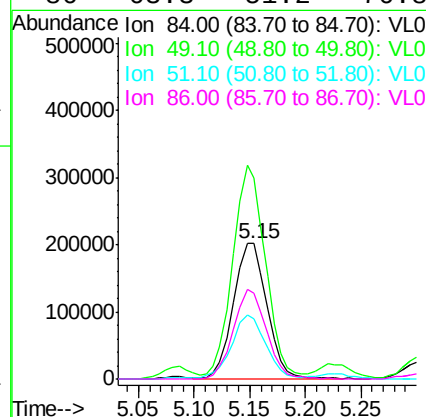
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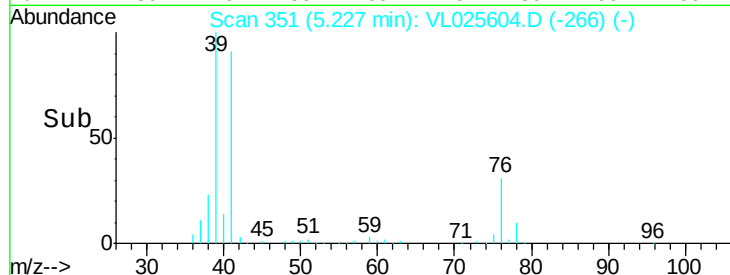
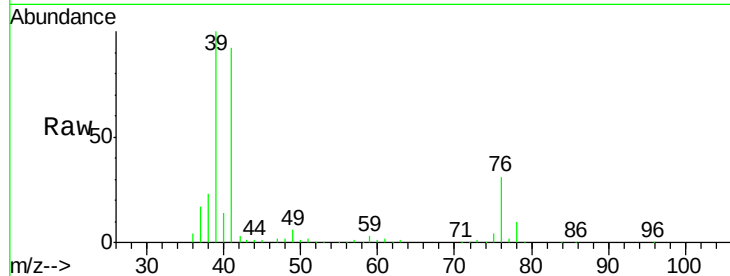
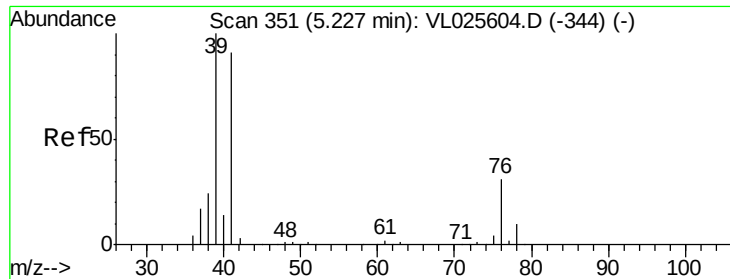


#20

Methylene Chloride
 Concen: 9.53 ppbv
 RT: 5.15 min Scan# 339
 Delta R.T. 0.02 min
 Lab File: VL025604.D
 Acq: 7 Jul 2015 10:32

Tgt Ion	84	49	51	86	Ratio	Lower	Upper
84	100						
49	144.0				116.2	174.4	
51	43.8				35.7	53.5	
86	63.3				51.2	76.8	





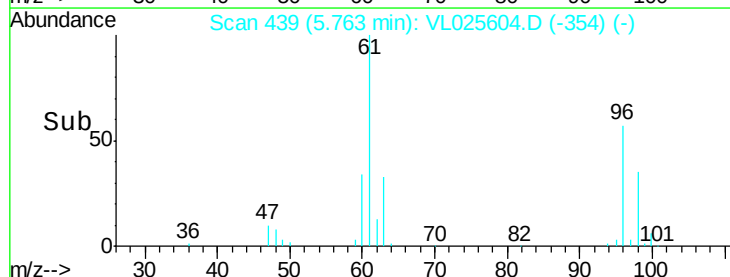
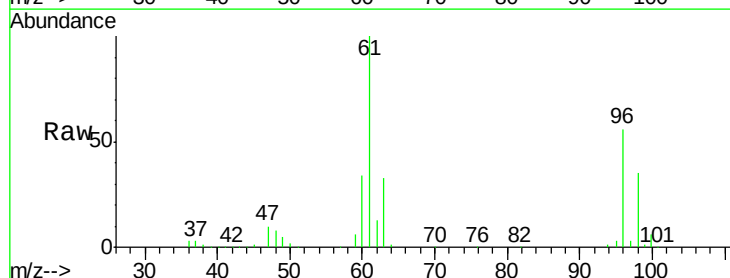
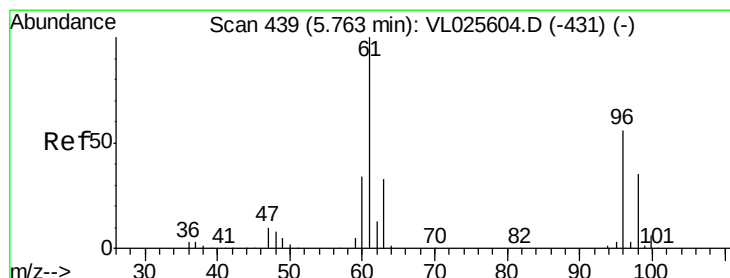
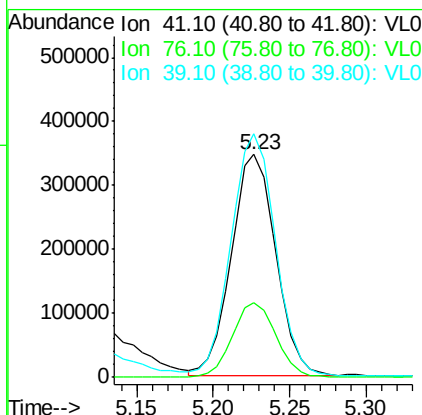
#21
Allvl Chloride
Concen: 10.38 ppbv
RT: 5.23 min Scan# 351
Delta R.T. 0.02 min
Lab File: VL025604.D
Acq: 7 Jul 2015 10:32

Tot Ion	Ratio	Resp	Lower	Upper
41	100	698988		
76	33.3	25.2	37.8	
39	110.3	77.2	115.8	

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

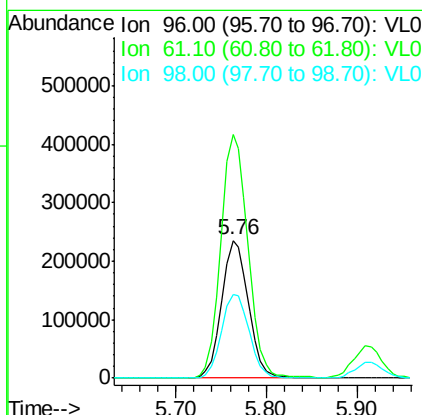
Manual Integrations
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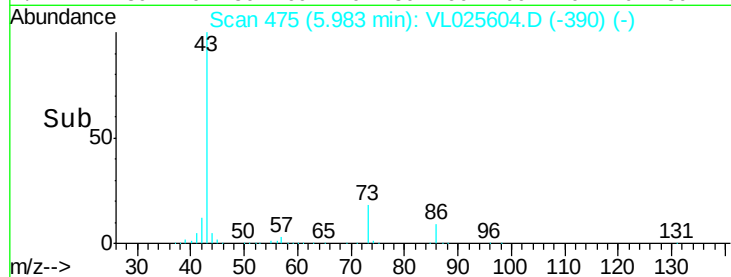
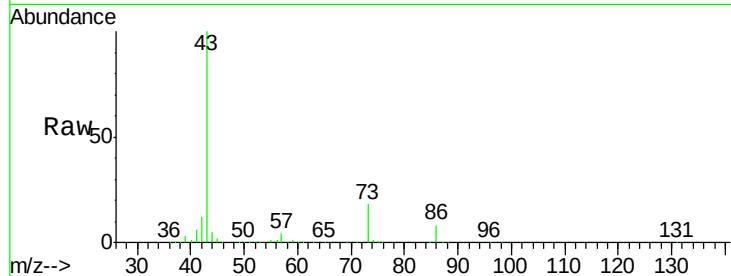
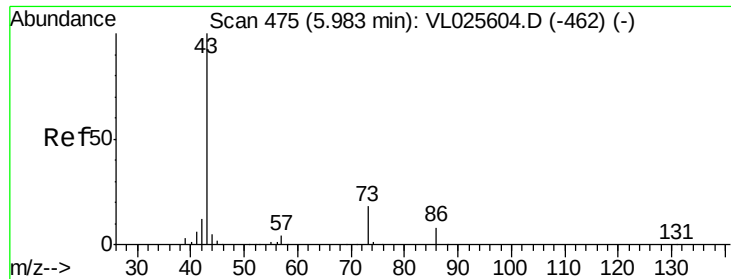
sam
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#22
trans-1,2-Dichloroethene
Concen: 9.79 ppbv
RT: 5.76 min Scan# 439
Delta R.T. 0.02 min
Lab File: VL025604.D
Acq: 7 Jul 2015 10:32

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	485499		
61	177.2	140.1	210.1	
98	61.3	51.1	76.7	





#23

Vinyl Acetate

Concen: 10.23 ppbv

RT: 5.98 min Scan# 475

Delta R.T. 0.02 min

Lab File: VL025604.D

Acq: 7 Jul 2015 10:32

Tot Ion: 43 Resp: 1846094

Ion Ratio Lower Upper

43 100

86 8.4 6.2 9.4

42 12.2 9.2 13.8

44 5.1 4.4 6.6

Instrument :

MSVOA_L

ClientSampleId :

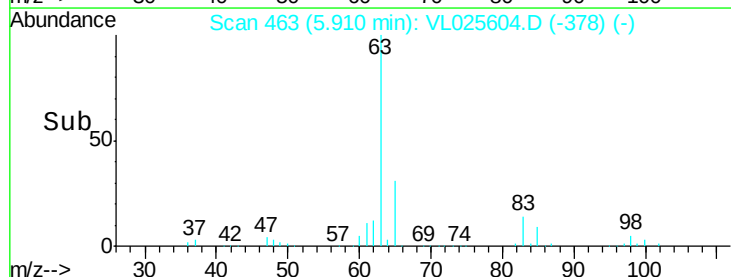
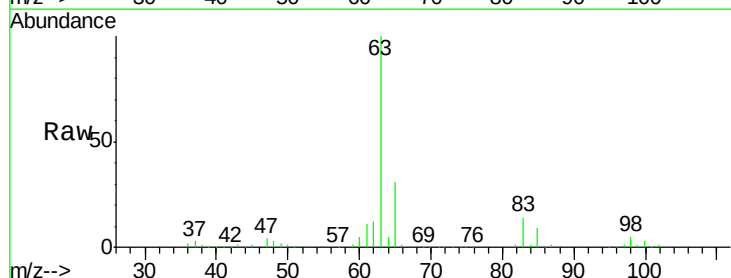
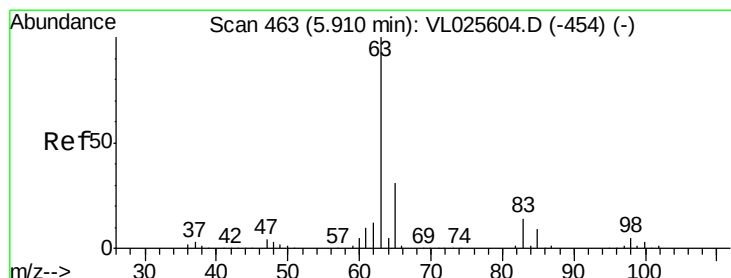
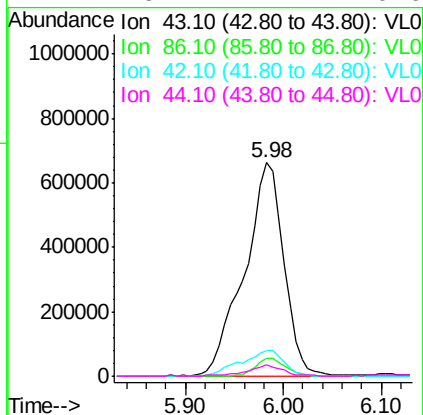
VSTDICCC010

Manual Integrations

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7/8/2015 11:04:19 AM



#24

1,1-Dichloroethane

Concen: 9.55 ppbv

RT: 5.91 min Scan# 463

Delta R.T. 0.02 min

Lab File: VL025604.D

Acq: 7 Jul 2015 10:32

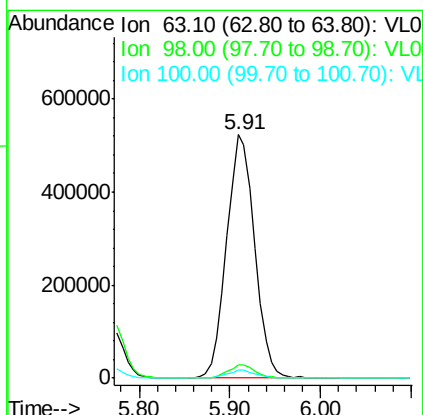
Tgt Ion: 63 Resp: 1121573

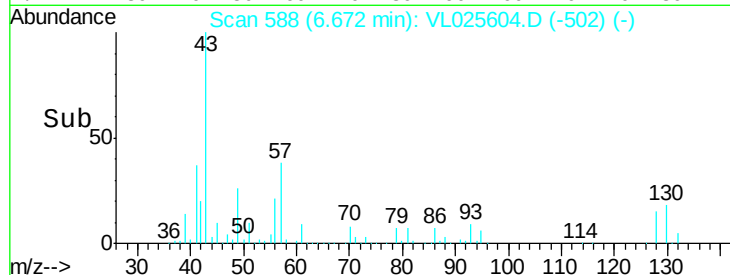
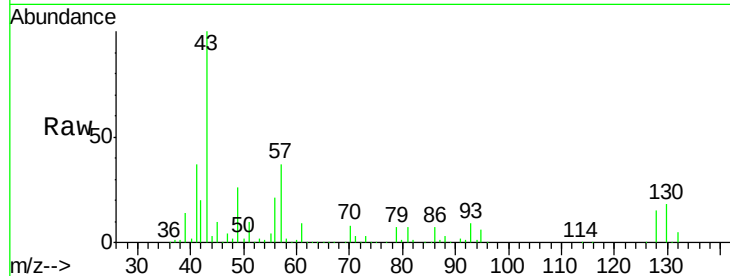
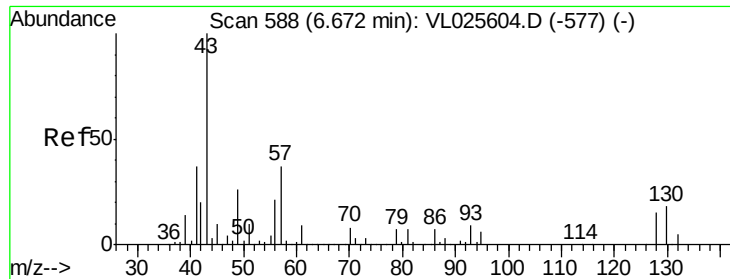
Ion Ratio Lower Upper

63 100

98 5.3 2.6 7.8

100 3.1 1.7 5.0





#25
Ethyl Acetate
Concen: 9.41 ppbv
RT: 6.67 min Scan# 588
Delta R.T. 0.02 min
Lab File: VL025604.D
Acq: 7 Jul 2015 10:32

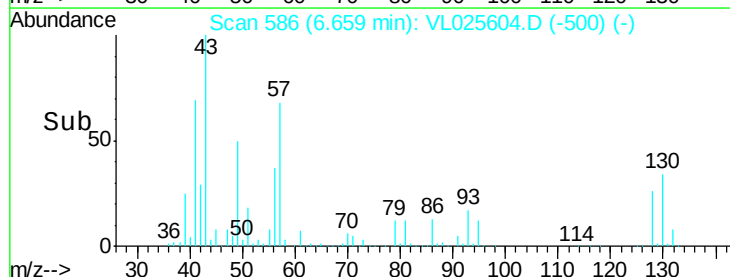
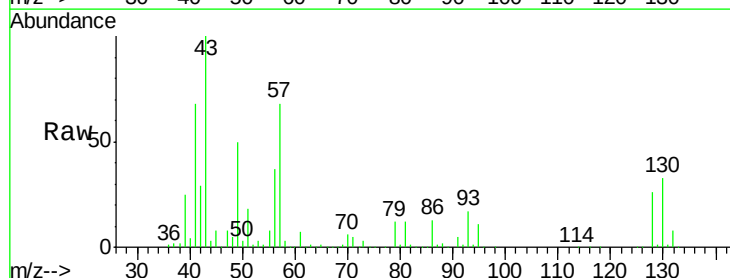
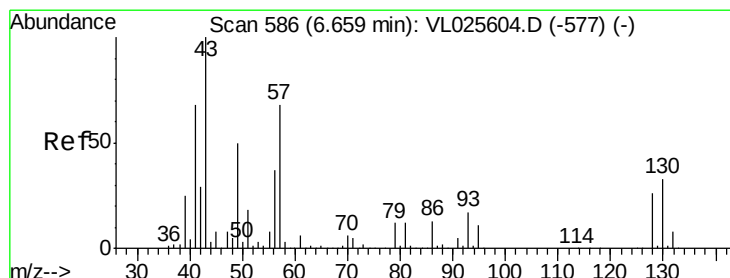
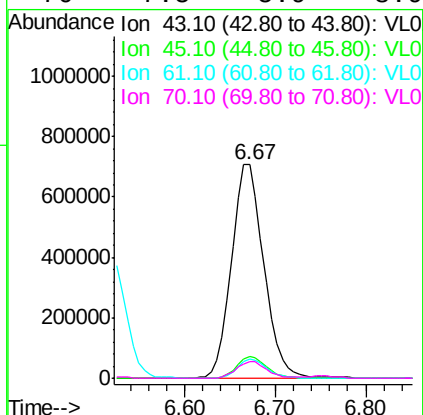
Tot Ion: 43 Resp: 1742817

Ion	Ratio	Lower	Upper
43	100		
45	9.4	7.7	11.5
61	8.3	6.7	10.1
70	7.5	5.9	8.9

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
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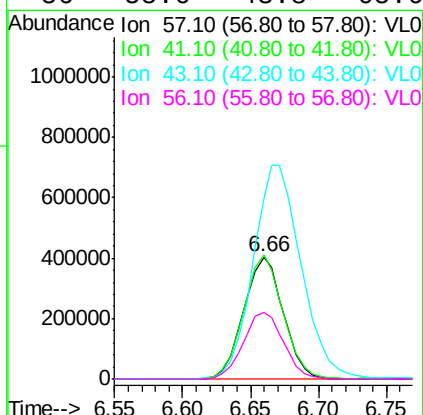
sam
7/8/2015 11:04:19 AM

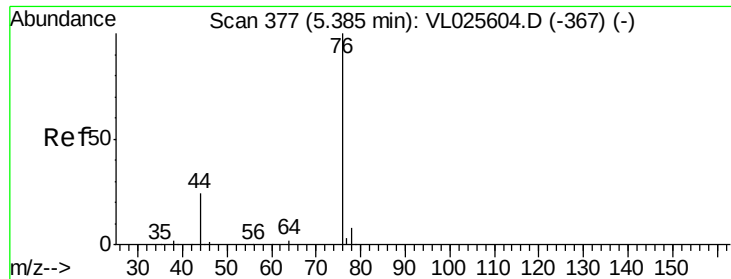


#26
Hexane
Concen: 9.39 ppbv
RT: 6.66 min Scan# 586
Delta R.T. 0.02 min
Lab File: VL025604.D
Acq: 7 Jul 2015 10:32

Tgt Ion: 57 Resp: 818941

Ion	Ratio	Lower	Upper
57	100		
41	101.8	77.7	116.5
43	214.3	167.0	250.4
56	55.6	43.8	65.6





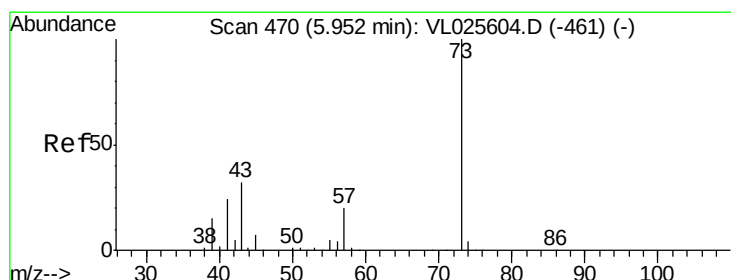
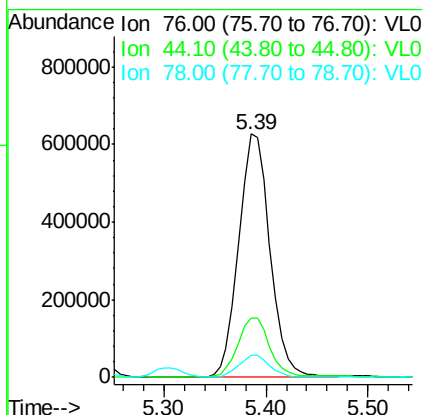
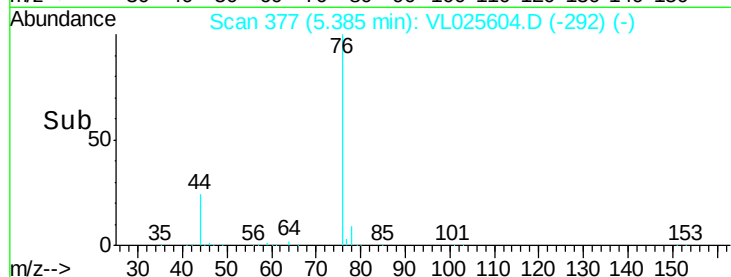
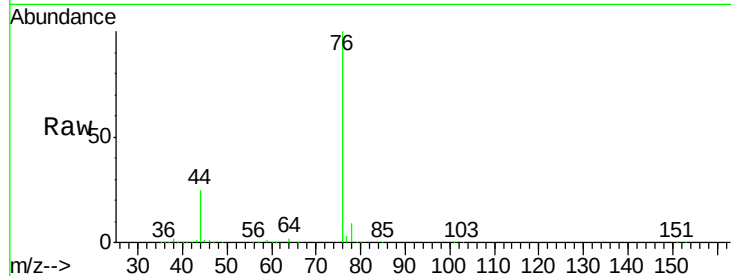
#27
Carbon Disulfide
Concen: 11.10 ppbv
RT: 5.39 min Scan# 377
Delta R.T. 0.02 min
Lab File: VL025604.D
Acq: 7 Jul 2015 10:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 76 Resp: 1336703
Ion Ratio Lower Upper
76 100
44 25.3 17.7 26.5
78 9.3 7.5 11.3

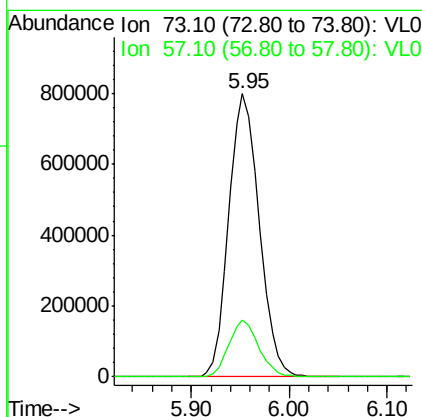
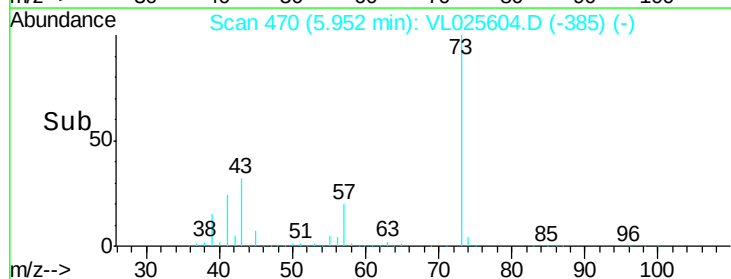
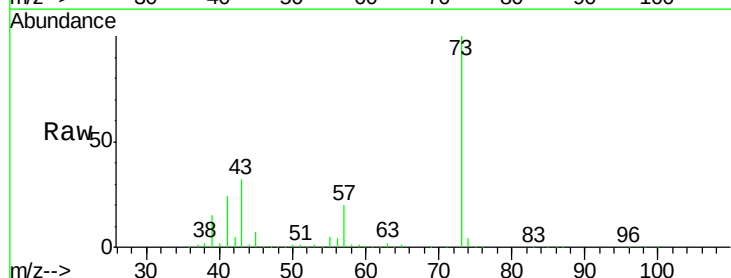
Manual Integrations
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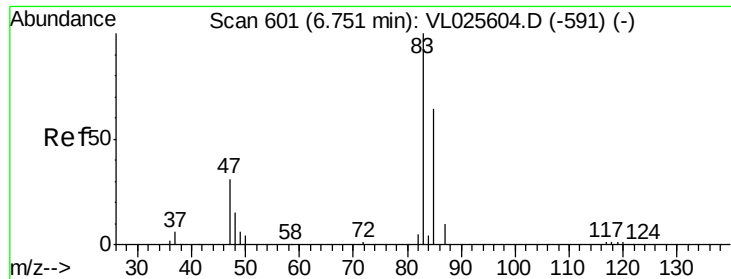
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#28
Methyl tert-Butyl Ether
Concen: 10.64 ppbv
RT: 5.95 min Scan# 470
Delta R.T. 0.02 min
Lab File: VL025604.D
Acq: 7 Jul 2015 10:32

Tgt Ion: 73 Resp: 1727436
Ion Ratio Lower Upper
73 100
57 20.0 17.0 25.6





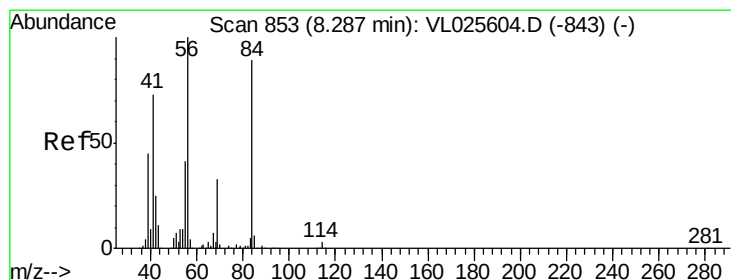
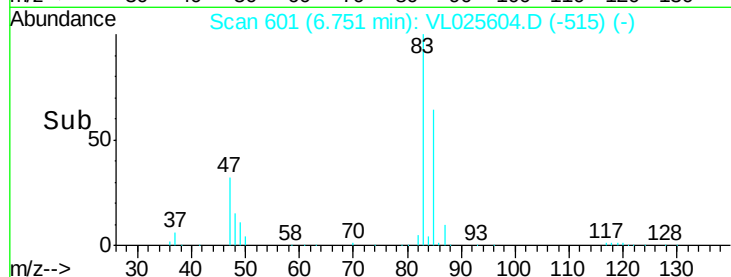
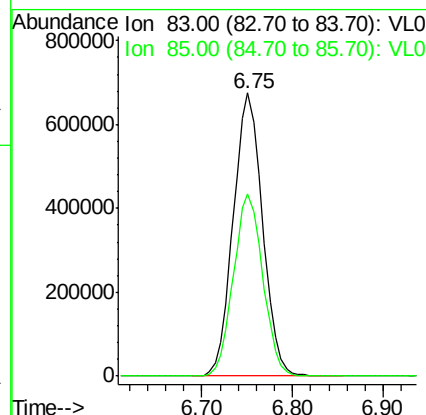
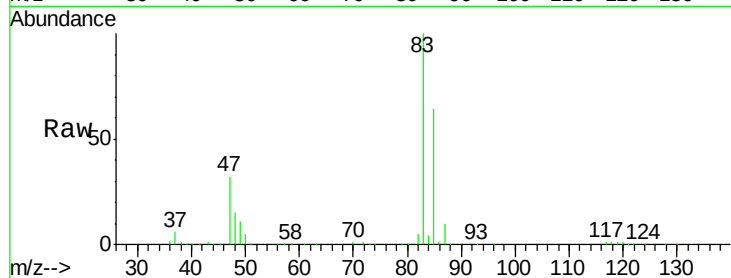
#29
Chloroform
Concen: 10.47 ppbv
RT: 6.75 min Scan# 601
Delta R.T. 0.02 min
Lab File: VL025604.D
Acq: 7 Jul 2015 10:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 83 Resp: 1517106
Ion Ratio Lower Upper
83 100
85 64.5 53.3 79.9

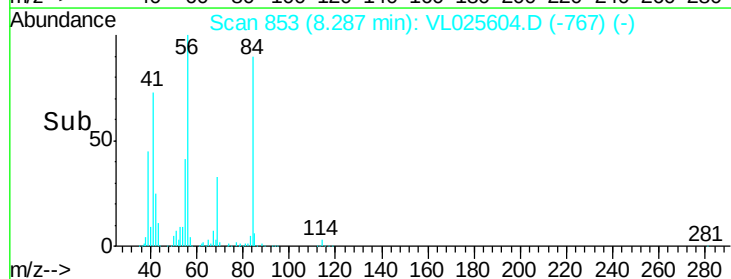
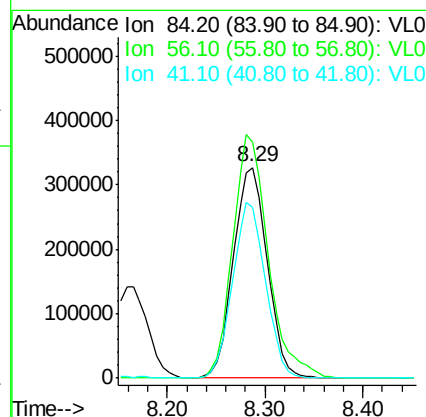
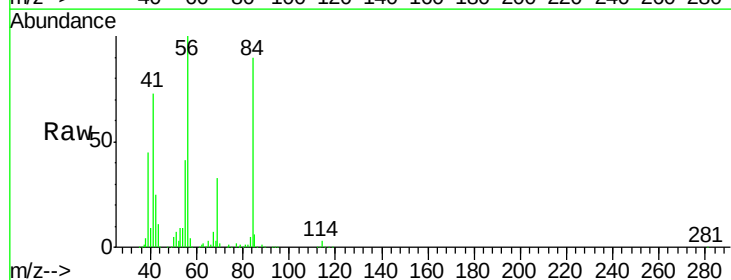
Manual Integrations
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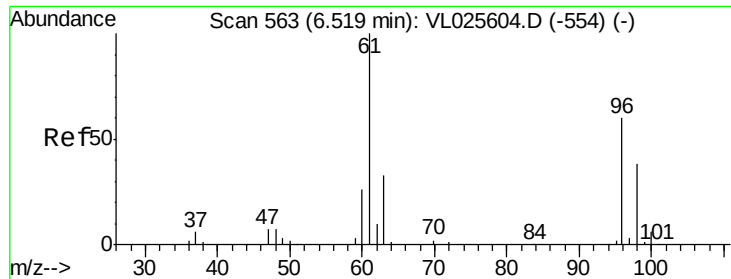
sam
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#30
Cyclohexane
Concen: 9.84 ppbv
RT: 8.29 min Scan# 853
Delta R.T. 0.02 min
Lab File: VL025604.D
Acq: 7 Jul 2015 10:32

Tgt Ion: 84 Resp: 782845
Ion Ratio Lower Upper
84 100
56 121.9 100.6 150.8
41 81.8 63.8 95.8





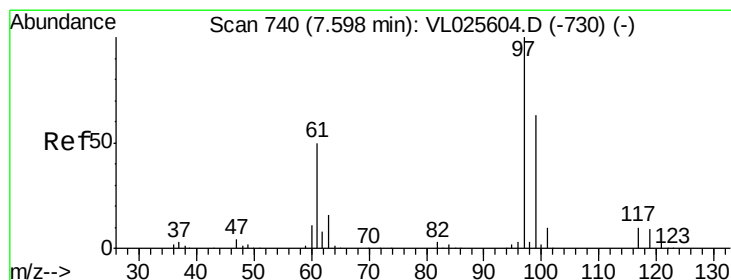
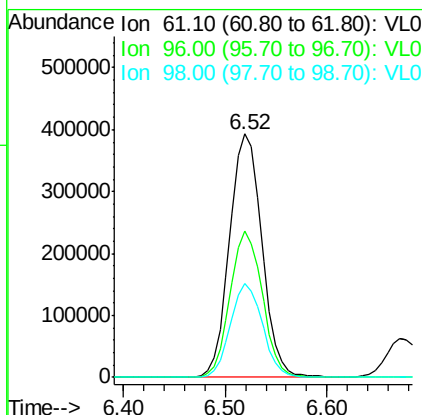
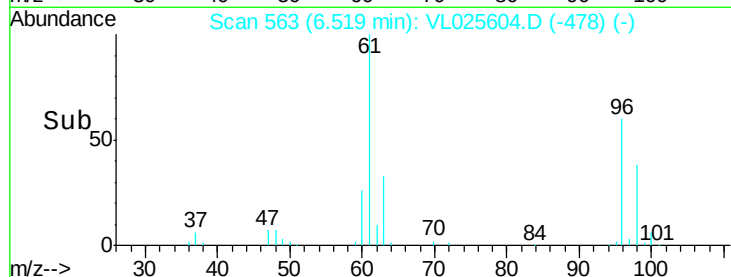
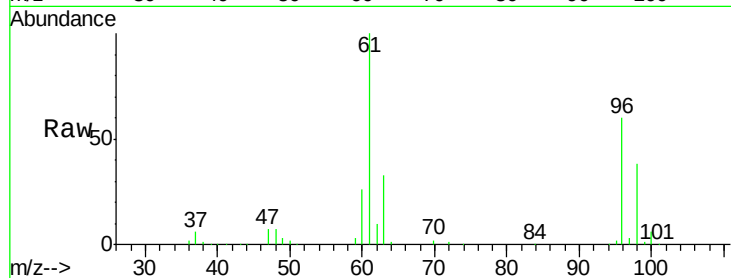
#31
 cis-1,2-Dichloroethene
 Concen: 10.36 ppbv
 RT: 6.52 min Scan# 563
 Delta R.T. 0.02 min
 Lab File: VL025604.D
 Acq: 7 Jul 2015 10:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	60.1	49.1	73.7
98	38.4	31.7	47.5

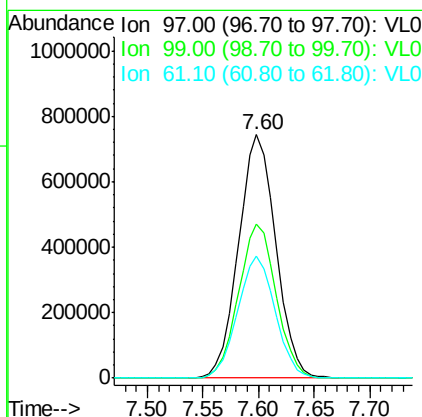
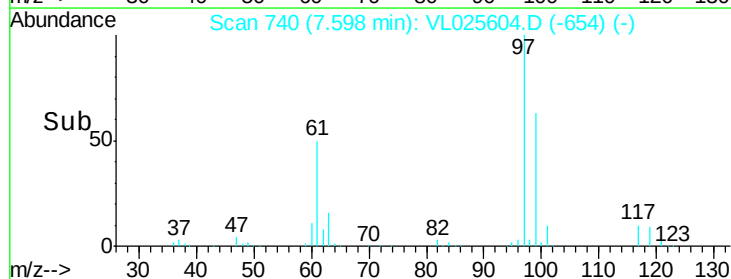
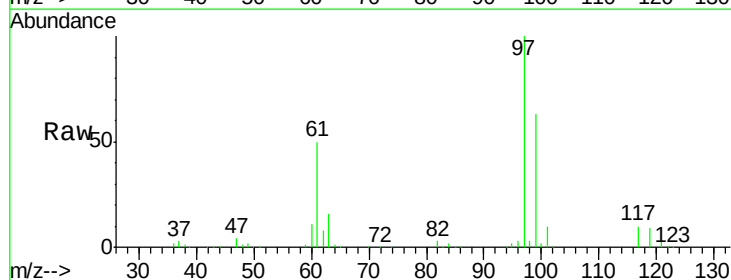
Manual Integrations
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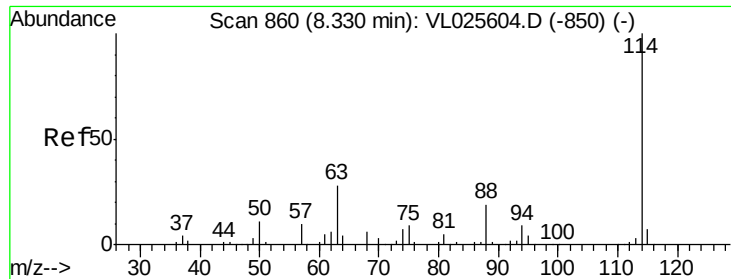
sam
 7/8/2015 11:04:19 AM



#32
 1,1,1-Trichloroethane
 Concen: 10.59 ppbv
 RT: 7.60 min Scan# 740
 Delta R.T. 0.02 min
 Lab File: VL025604.D
 Acq: 7 Jul 2015 10:32

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.0	50.9	76.3
61	50.5	40.9	61.3





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 8.33 min Scan# 860

Delta R.T. 0.02 min

Lab File: VL025604.D

Acq: 7 Jul 2015 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:114 Resp: 1889486

Ion Ratio Lower Upper

114 100

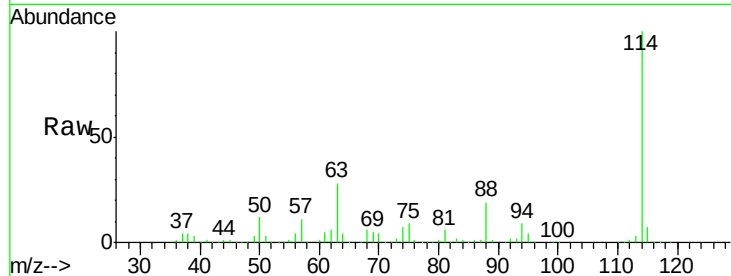
63 28.0 22.2 33.2

88 18.7 15.1 22.7

Manual Integrations
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sam

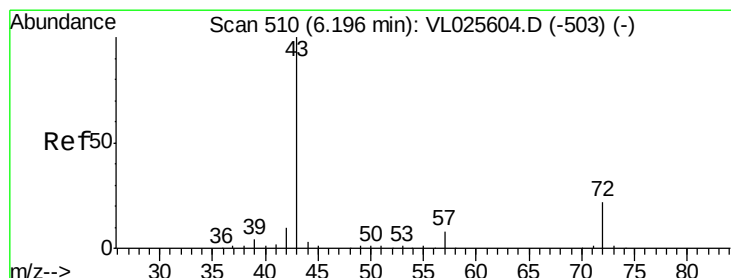
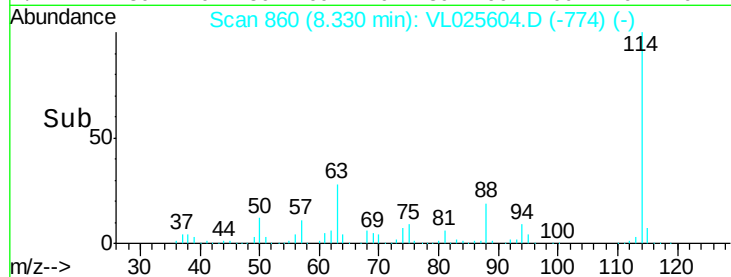
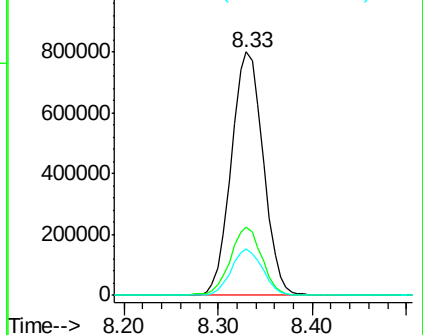
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Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 9.21 ppbv

RT: 6.20 min Scan# 510

Delta R.T. 0.02 min

Lab File: VL025604.D

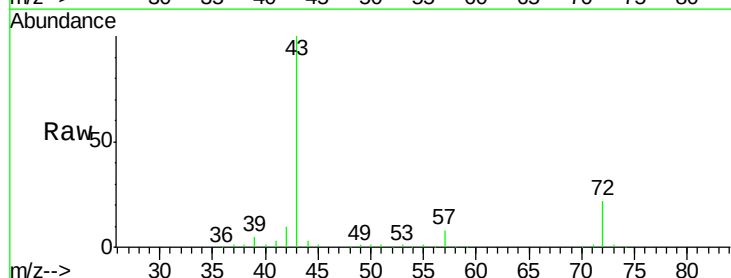
Acq: 7 Jul 2015 10:32

Tgt Ion: 43 Resp: 1036534

Ion Ratio Lower Upper

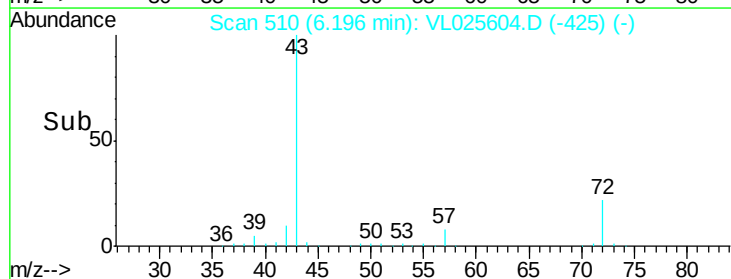
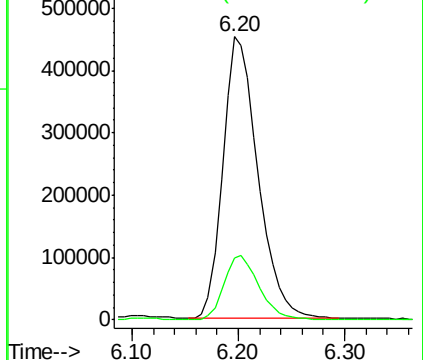
43 100

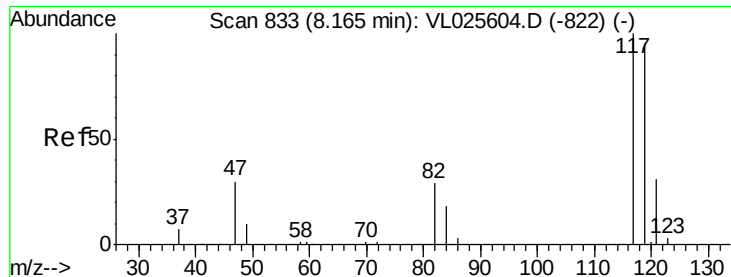
72 23.3 18.2 27.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 10.81 ppbv

RT: 8.17 min Scan# 833

Delta R.T. 0.02 min

Lab File: VL025604.D

Acq: 7 Jul 2015 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:117 Resp: 1845919

Ion Ratio Lower Upper

117 100

119 94.9 76.6 114.8

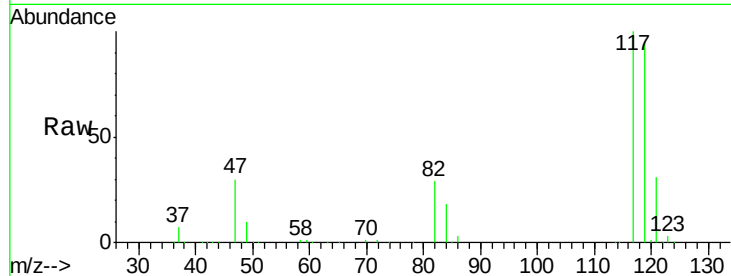
121 30.5 24.6 36.8

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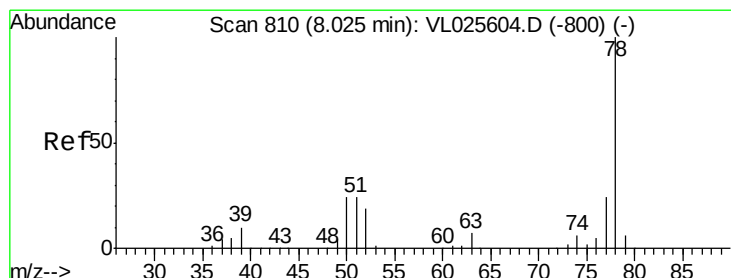
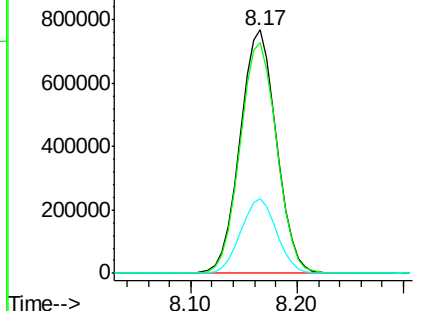
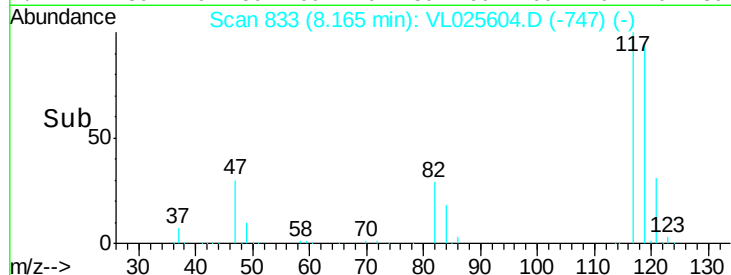
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.29 ppbv

RT: 8.02 min Scan# 810

Delta R.T. 0.02 min

Lab File: VL025604.D

Acq: 7 Jul 2015 10:32

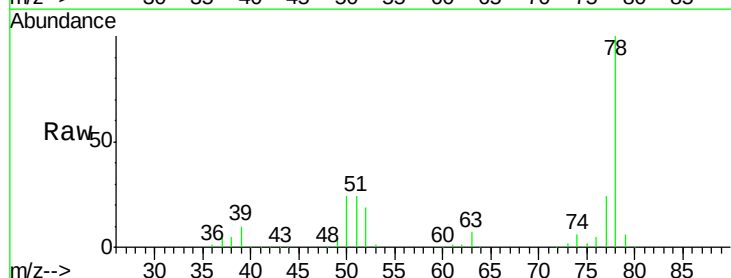
Tgt Ion: 78 Resp: 1733249

Ion Ratio Lower Upper

78 100

77 23.7 18.9 28.3

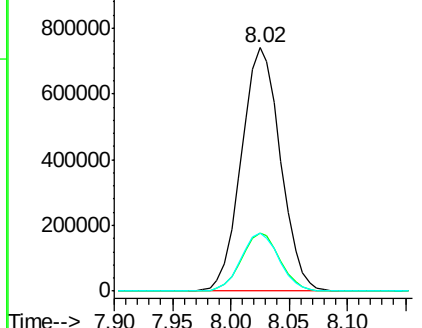
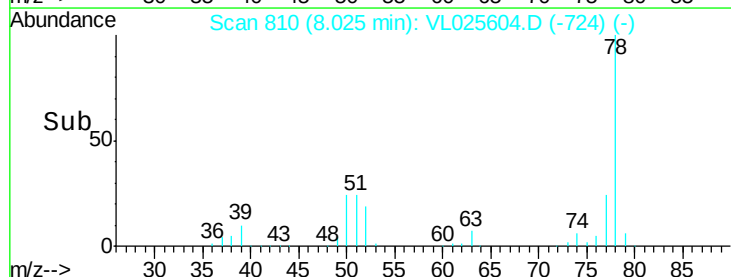
50 24.0 17.7 26.5

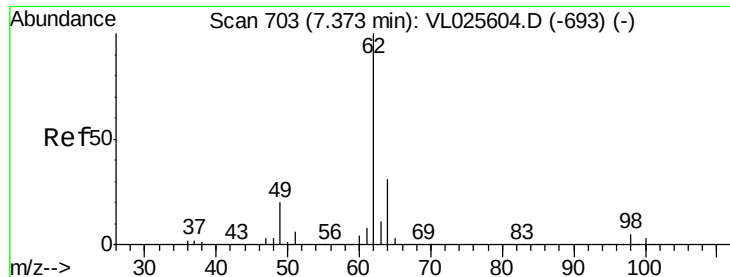


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





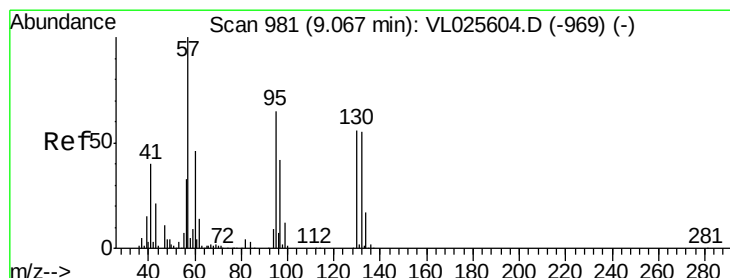
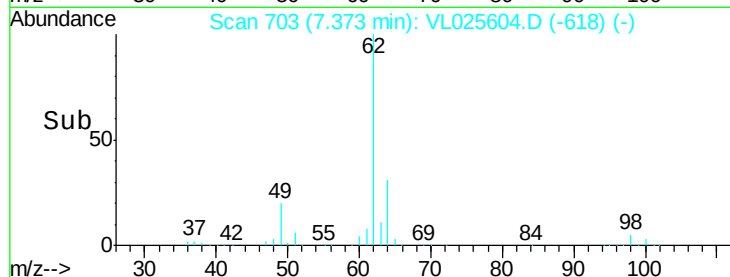
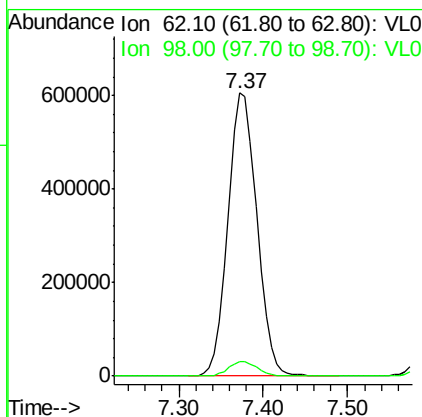
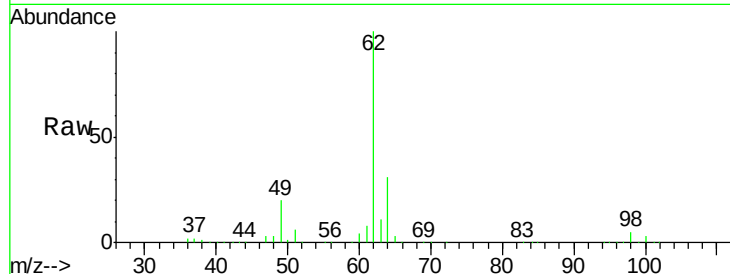
#37
 1,2-Dichloroethane
 Concen: 10.91 ppbv
 RT: 7.37 min Scan# 703
 Delta R.T. 0.02 min
 Lab File: VL025604.D
 Acq: 7 Jul 2015 10:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 62 Resp: 1415811
 Ion Ratio Lower Upper
 62 100
 98 5.1 4.7 7.1

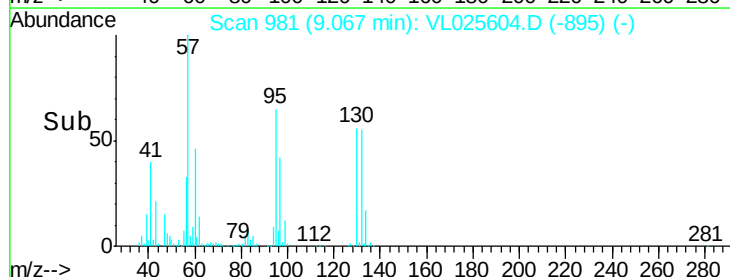
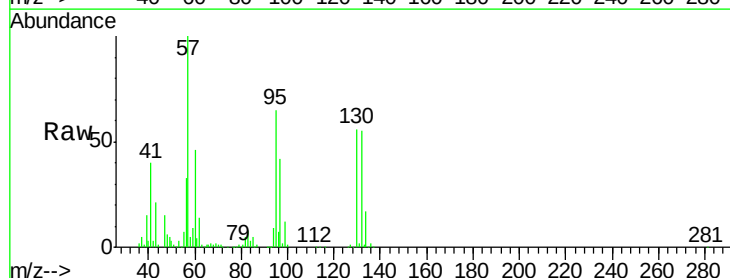
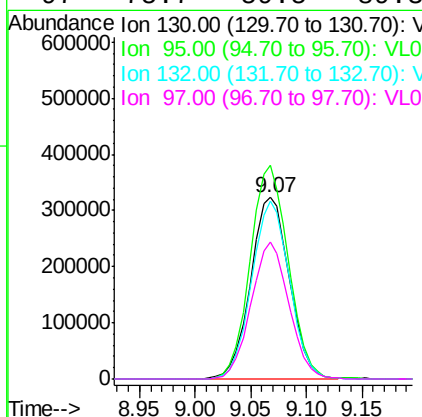
Manual Integrations
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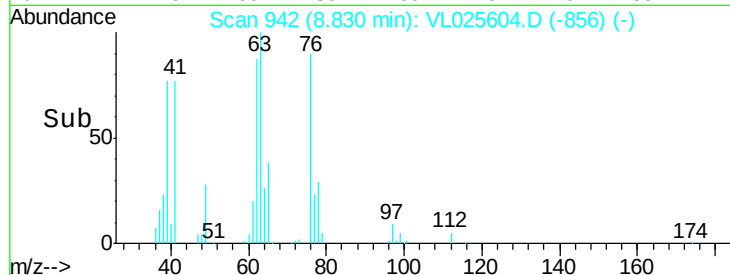
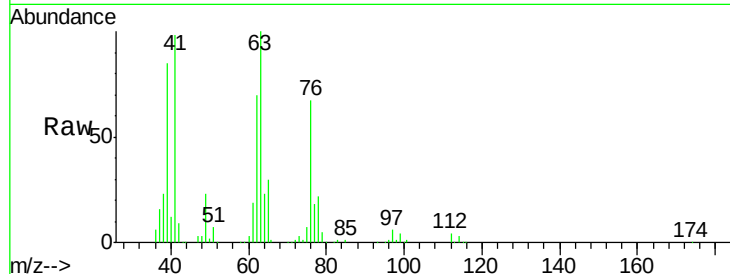
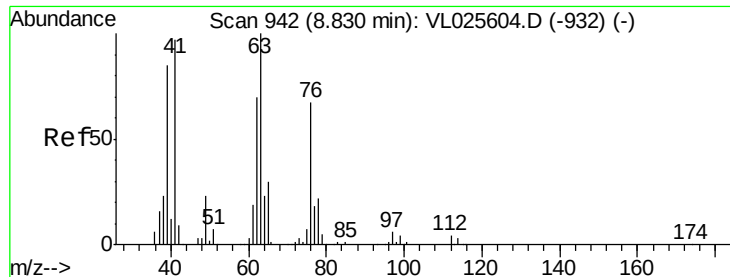
sam
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#38
 Trichloroethene
 Concen: 9.76 ppbv
 RT: 9.07 min Scan# 981
 Delta R.T. 0.02 min
 Lab File: VL025604.D
 Acq: 7 Jul 2015 10:32

Tgt Ion:130 Resp: 786669
 Ion Ratio Lower Upper
 130 100
 95 117.8 91.5 137.3
 132 98.3 77.0 115.4
 97 75.7 59.5 89.3





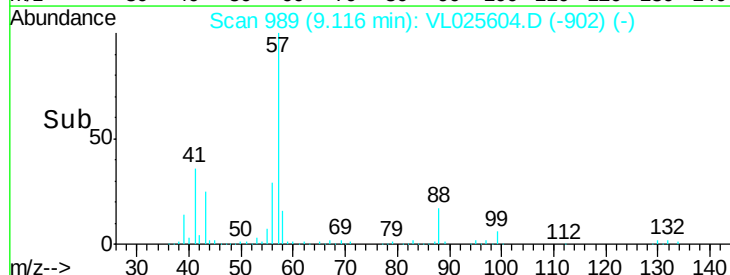
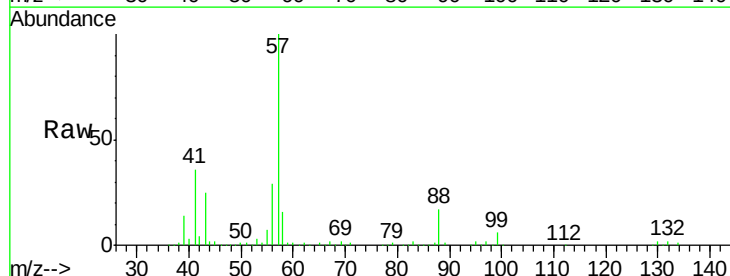
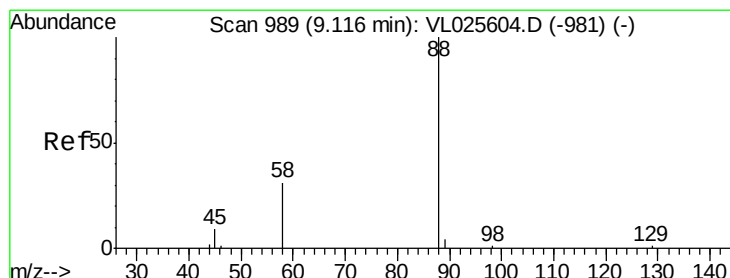
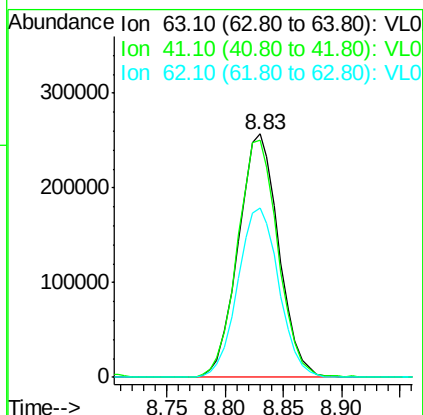
#39
1,2-Dichloropropane
Concen: 8.99 ppbv
RT: 8.83 min Scan# 942
Delta R.T. 0.02 min
Lab File: VL025604.D
Acq: 7 Jul 2015 10:32

Tot Ion	Ratio	Lower	Upper
63	100		
41	97.5	68.3	102.5
62	69.6	55.2	82.8

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

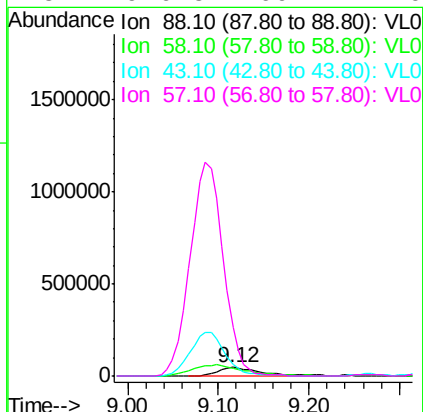
Manual Integrations
APPROVED

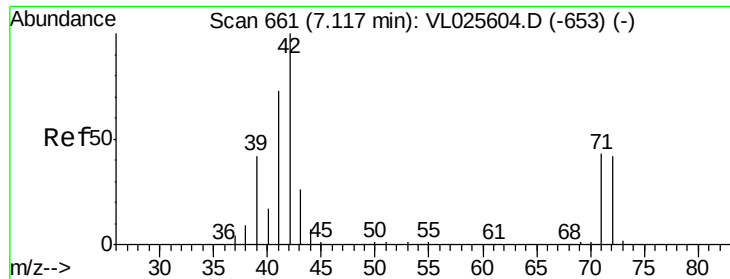
sam
7/8/2015 11:04:19 AM



#40
1,4-Dioxane
Concen: 10.09 ppbv
RT: 9.12 min Scan# 989
Delta R.T. 0.03 min
Lab File: VL025604.D
Acq: 7 Jul 2015 10:32

Tgt Ion	Ratio	Lower	Upper
88	100		
58	158.9	130.2	195.4
43	422.1	347.4	521.0
57	1916.5	1601.1	2401.7





#41

Tetrahydrofuran

Concen: 9.16 ppbv

RT: 7.12 min Scan# 661

Delta R.T. 0.02 min

Lab File: VL025604.D

Acq: 7 Jul 2015 10:32

Instrument :

MSVOA_L

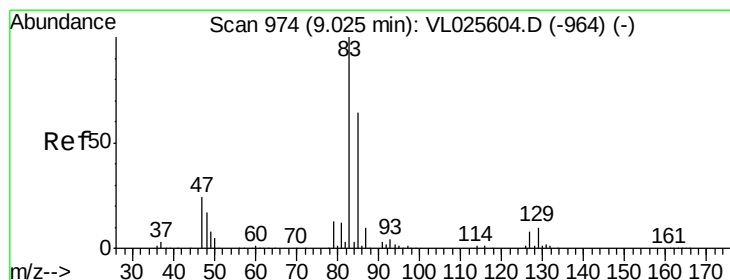
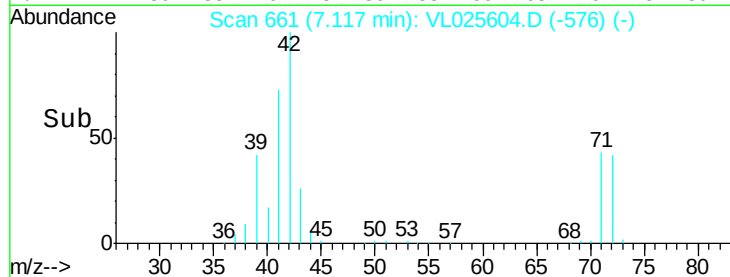
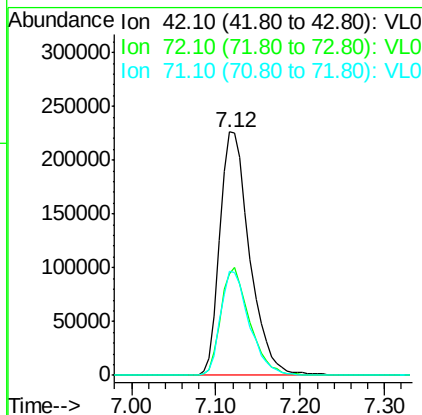
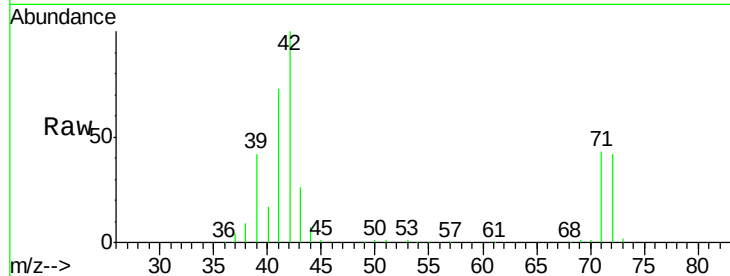
ClientSampleId :

VSTDICCC010

Tot Ion:	42	Resp:	553490
Ion	Ratio	Lower	Upper
42	100		
72	42.5	32.7	49.1
71	41.3	31.0	46.4

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#42

Bromodichloromethane

Concen: 10.81 ppbv

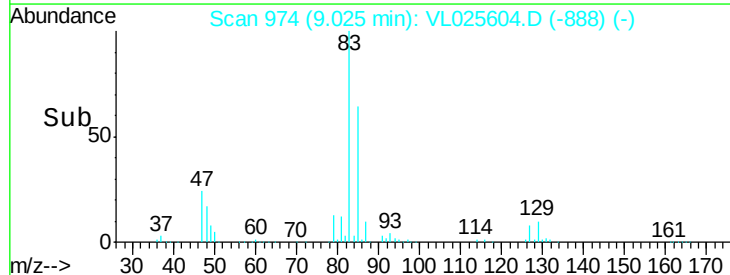
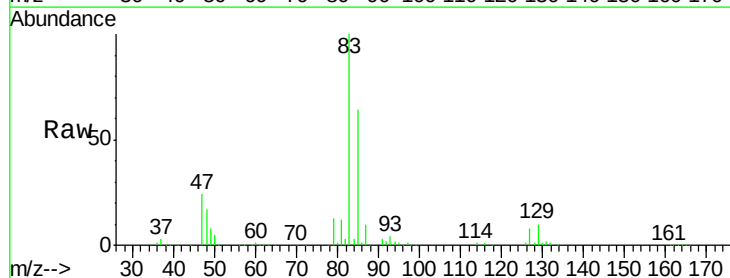
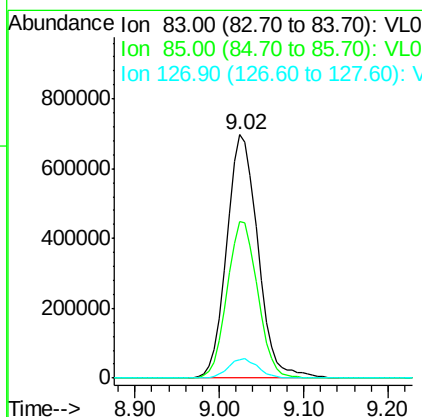
RT: 9.02 min Scan# 974

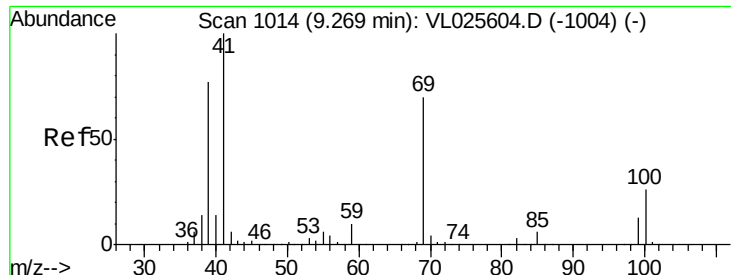
Delta R.T. 0.02 min

Lab File: VL025604.D

Acq: 7 Jul 2015 10:32

Tgt Ion:	83	Resp:	1758463
Ion	Ratio	Lower	Upper
83	100		
85	64.1	49.8	74.6
127	7.5	6.2	9.4





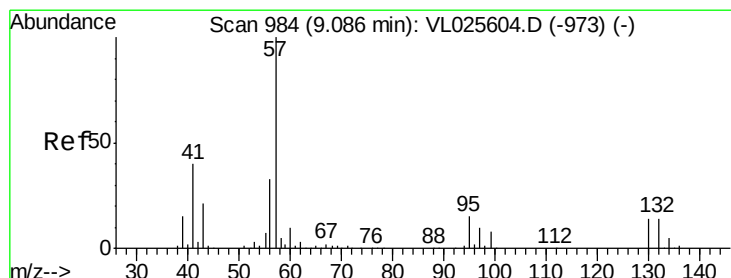
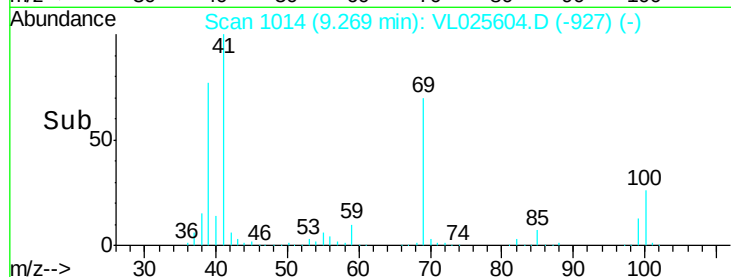
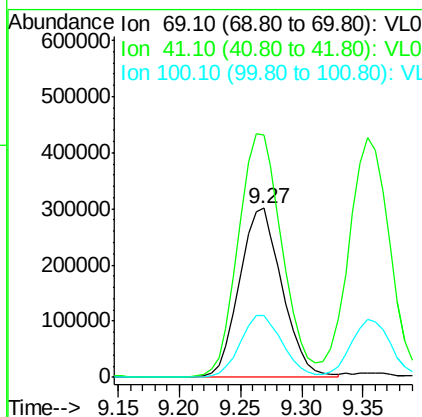
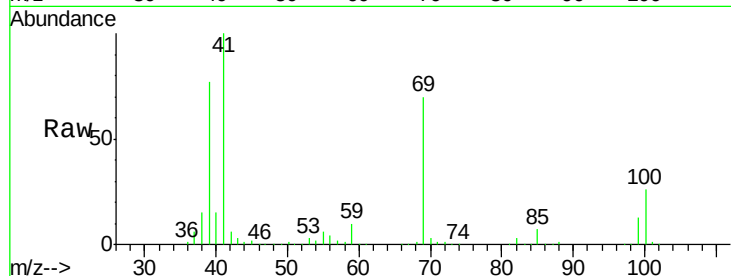
#43
Methyl Methacrylate
Concen: 10.54 ppbv
RT: 9.27 min Scan# 1014
Delta R.T. 0.03 min
Lab File: VL025604.D
Acq: 7 Jul 2015 10:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
69	100		
41	146.6	117.7	176.5
100	36.3	29.4	44.0

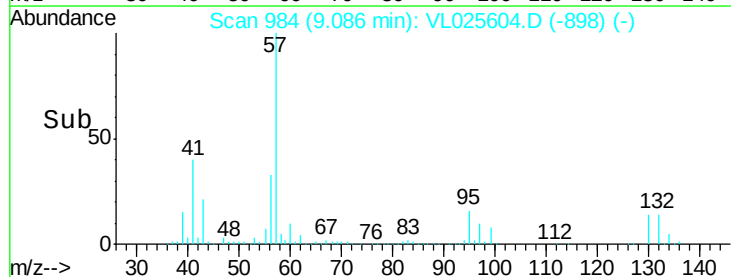
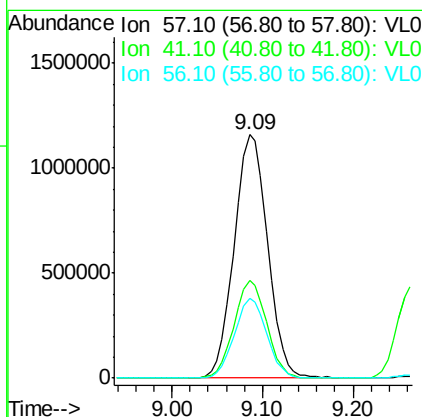
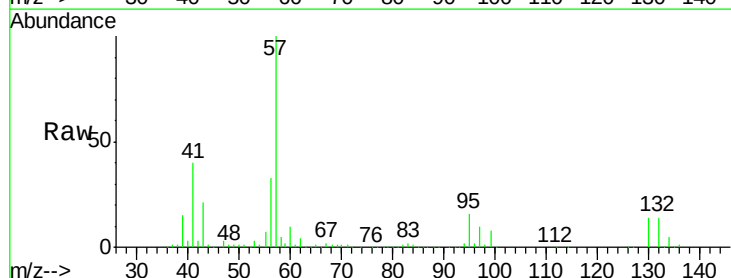
Manual Integrations
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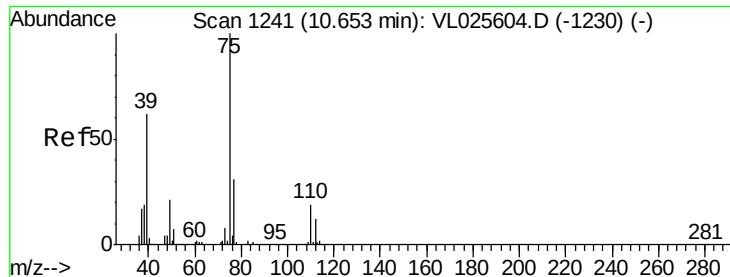
sam
7/8/2015 11:04:19 AM



#44
2,2,4-Trimethylpentane
Concen: 9.23 ppbv
RT: 9.09 min Scan# 984
Delta R.T. 0.02 min
Lab File: VL025604.D
Acq: 7 Jul 2015 10:32

Tgt Ion	Ratio	Lower	Upper
57	100		
41	39.0	28.6	43.0
56	31.8	25.9	38.9





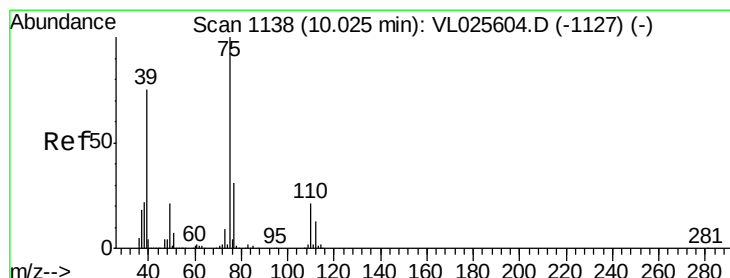
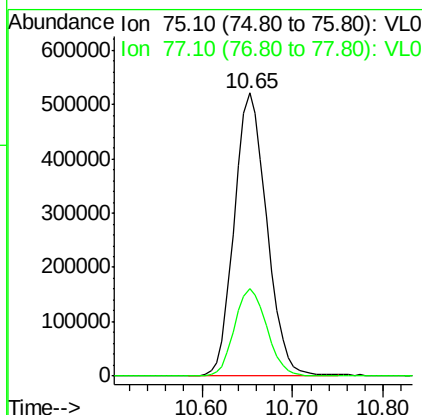
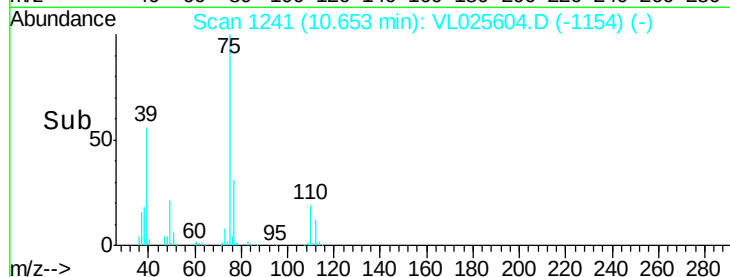
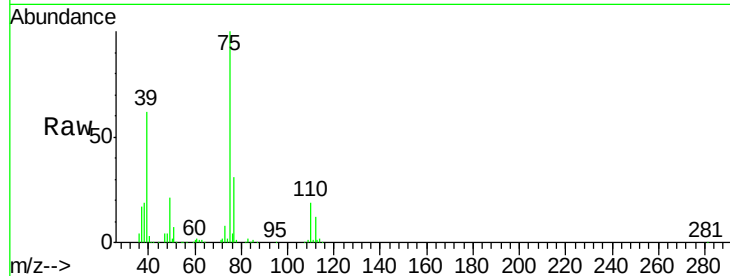
#45
t-1,3-Dichloropropene
Concen: 11.99 ppbv
RT: 10.65 min Scan# 1241
Delta R.T. 0.03 min
Lab File: VL025604.D
Acq: 7 Jul 2015 10:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 75 Resp: 1301387
Ion Ratio Lower Upper
75 100
77 30.8 25.4 38.0

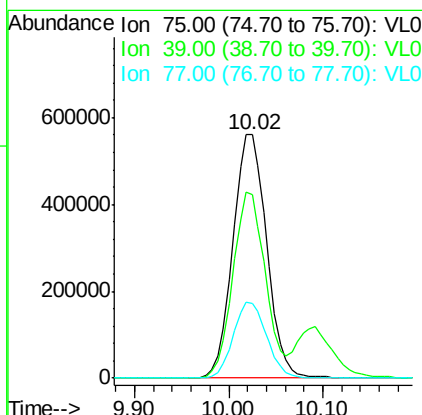
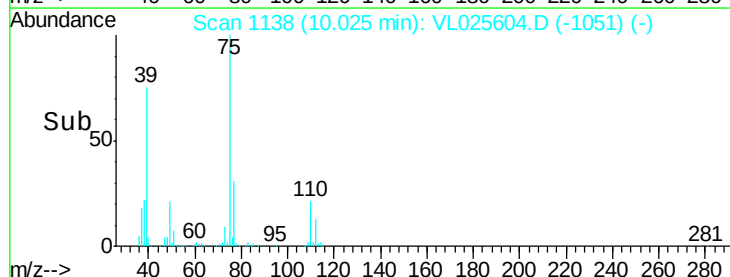
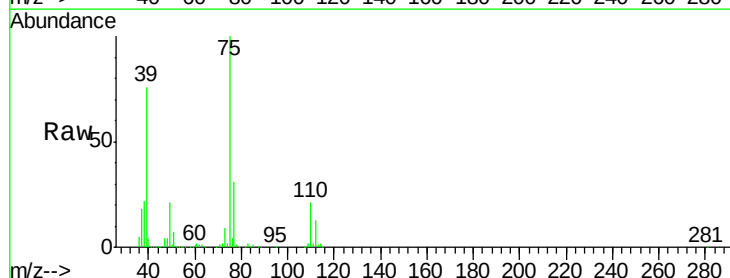
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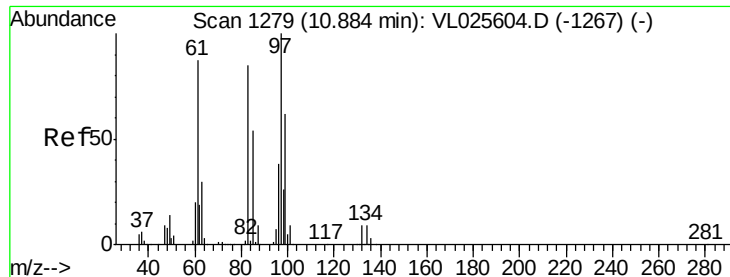
sam
7/8/2015 11:04:19 AM



#46
cis-1,3-Dichloropropene
Concen: 11.12 ppbv
RT: 10.02 min Scan# 1138
Delta R.T. 0.03 min
Lab File: VL025604.D
Acq: 7 Jul 2015 10:32

Tgt Ion: 75 Resp: 1401870
Ion Ratio Lower Upper
75 100
39 75.5 56.0 84.0
77 30.8 25.6 38.4





#47

1,1,2-Trichloroethane

Concen: 9.98 ppbv

RT: 10.88 min Scan# 1279

Delta R.T. 0.03 min

Lab File: VL025604.D

Acq: 7 Jul 2015 10:32

Instrument :

MSVOA_L

ClientSampled :

VSTDICCC010

Tot Ion: 97 Resp: 866229

Ion Ratio Lower Upper

97 100

83 84.8 70.0 105.0

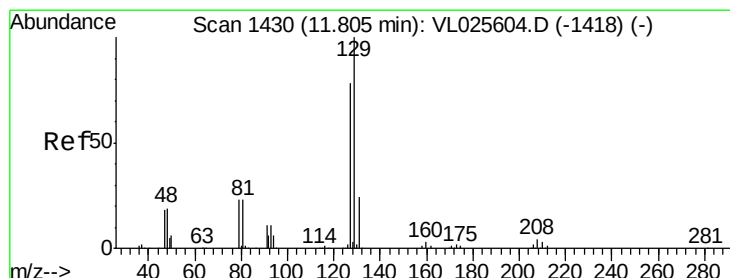
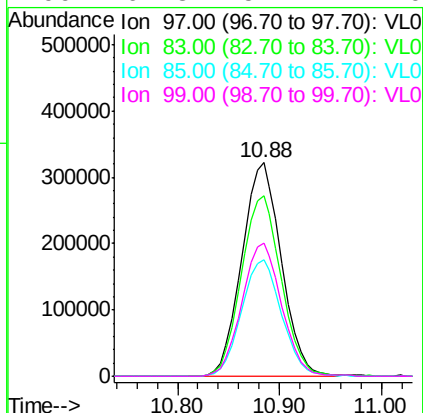
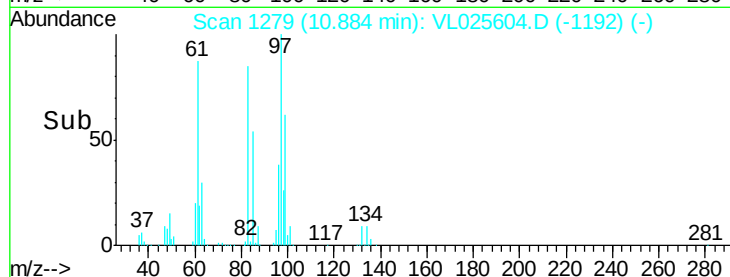
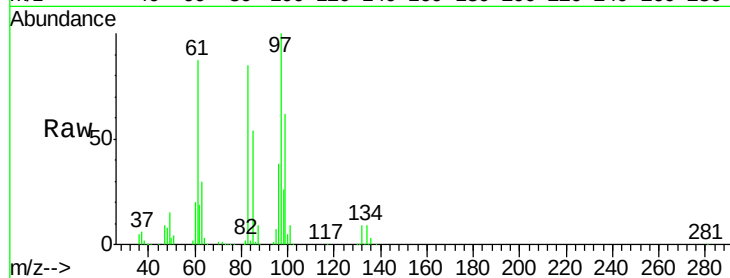
85 54.4 45.6 68.4

99 62.3 51.4 77.0

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7/8/2015 11:04:19 AM



#48

Dibromochloromethane

Concen: 11.62 ppbv

RT: 11.80 min Scan# 1430

Delta R.T. 0.03 min

Lab File: VL025604.D

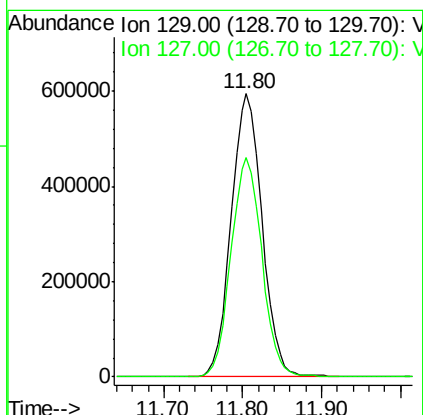
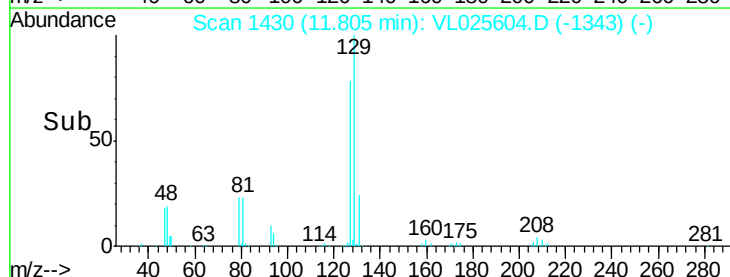
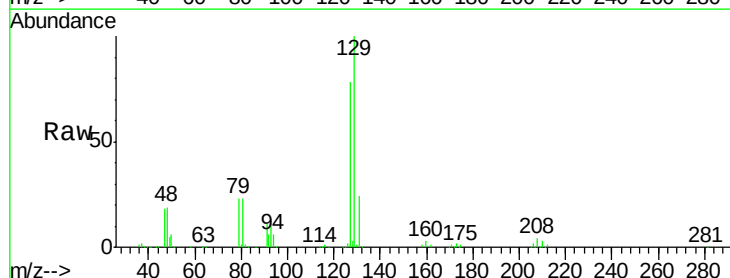
Acq: 7 Jul 2015 10:32

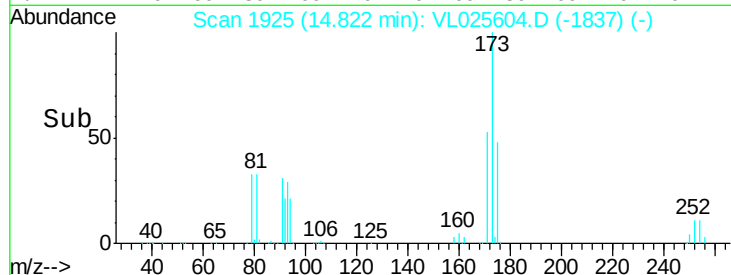
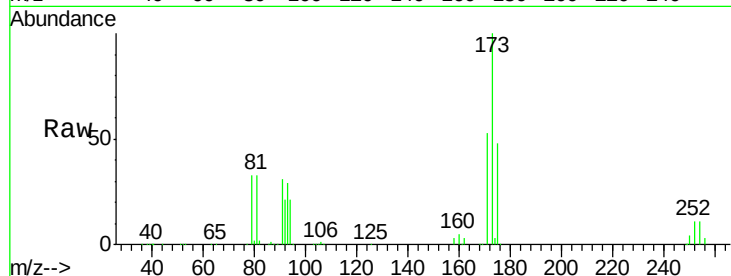
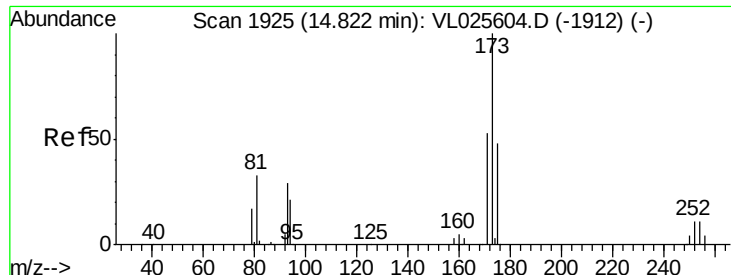
Tgt Ion: 129 Resp: 1622341

Ion Ratio Lower Upper

129 100

127 77.9 39.6 118.8





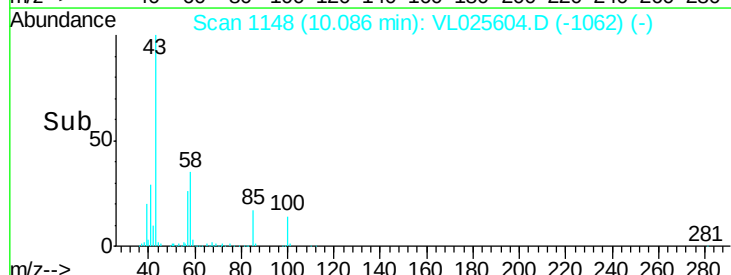
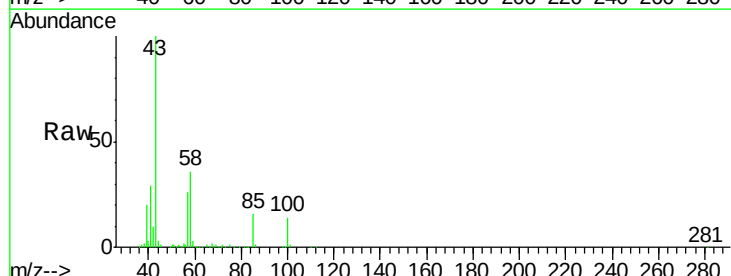
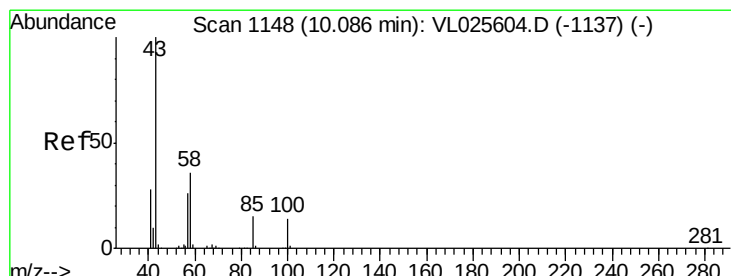
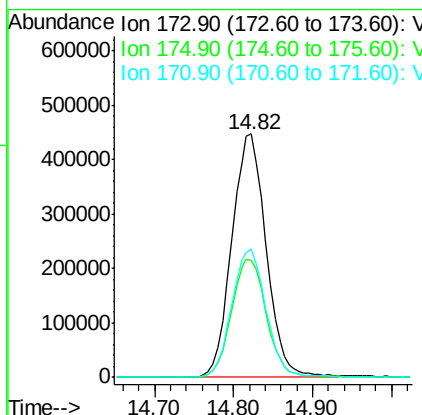
#49
Bromoform
Concen: 12.14 ppbv
RT: 14.82 min Scan# 1925
Delta R.T. 0.04 min
Lab File: VL025604.D
Acq: 7 Jul 2015 10:32

Tot Ion: 173 Resp: 1356483
Ion Ratio Lower Upper
173 100
175 49.4 38.9 58.3
171 52.7 41.4 62.2

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

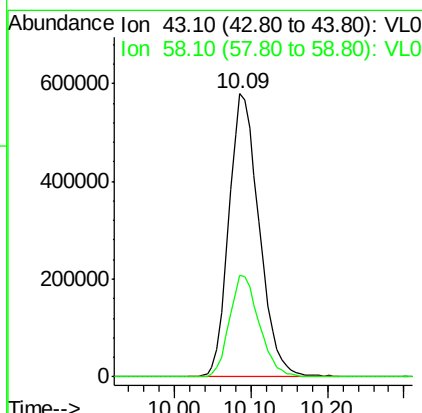
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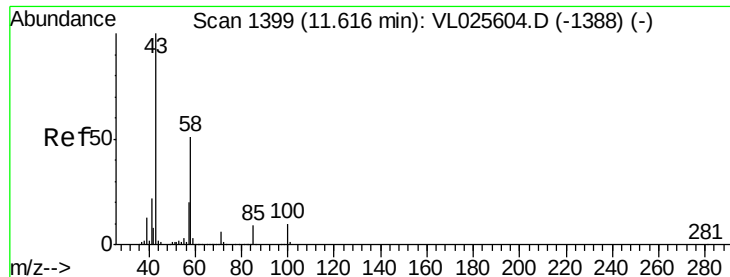
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7/8/2015 11:04:19 AM



#50
4-Methyl-2-Pentanone
Concen: 10.39 ppbv
RT: 10.09 min Scan# 1148
Delta R.T. 0.02 min
Lab File: VL025604.D
Acq: 7 Jul 2015 10:32

Tgt Ion: 43 Resp: 1584151
Ion Ratio Lower Upper
43 100
58 35.6 29.1 43.7





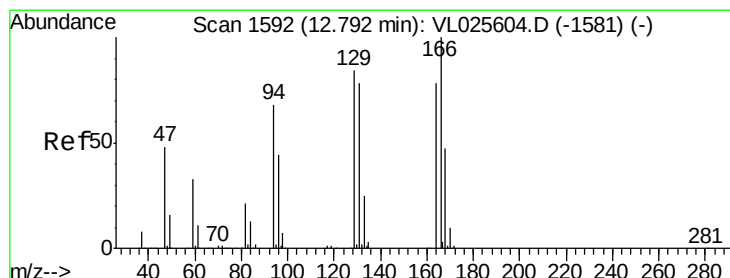
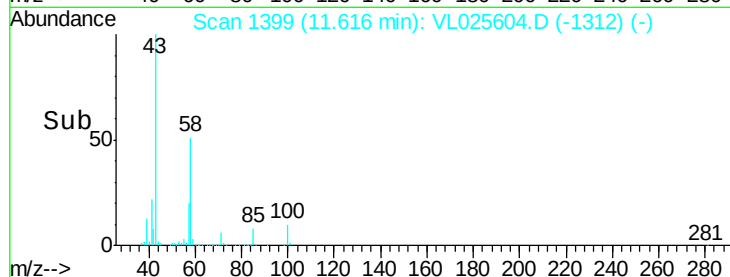
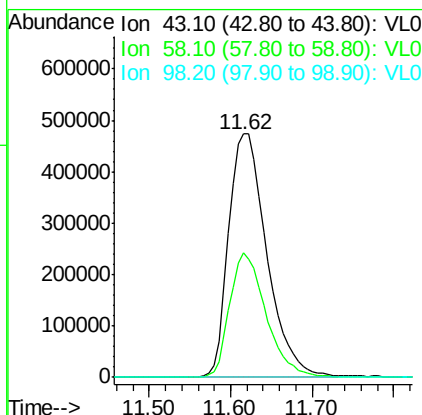
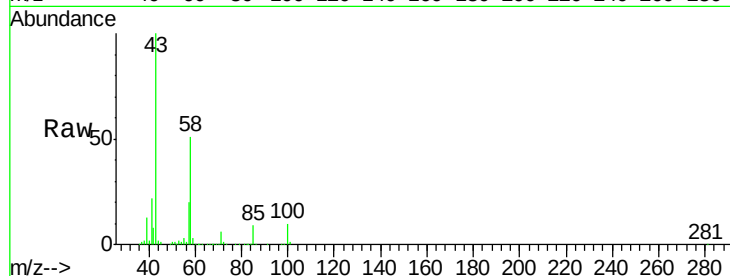
#51
2-Hexanone
Concen: 11.24 ppbv
RT: 11.62 min Scan# 1399
Delta R.T. 0.03 min
Lab File: VL025604.D
Acq: 7 Jul 2015 10:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 43 Resp: 1533554
Ion Ratio Lower Upper
43 100
58 48.8 40.4 60.6
98 0.3 0.2 0.2#

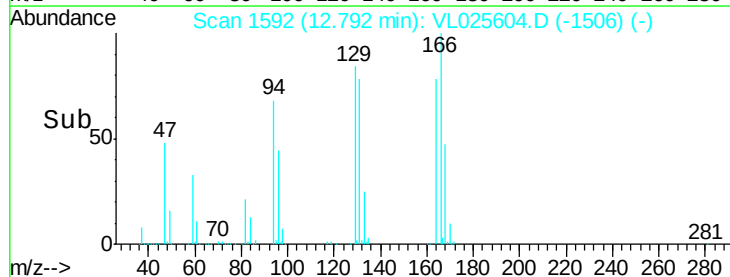
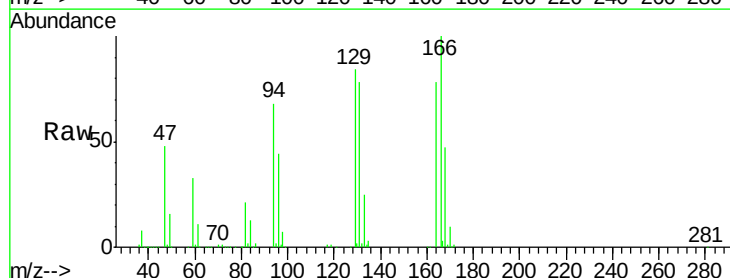
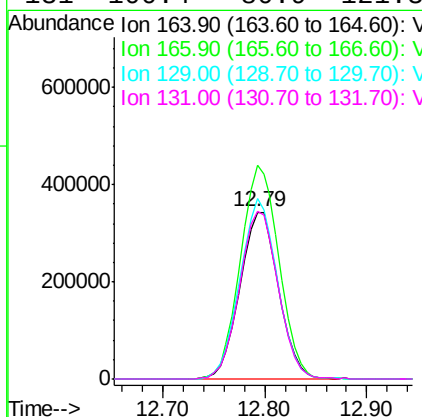
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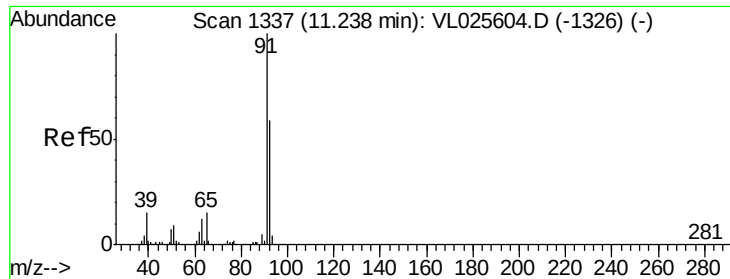
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7/8/2015 11:04:19 AM



#52
Tetrachloroethene
Concen: 10.55 ppbv
RT: 12.79 min Scan# 1592
Delta R.T. 0.02 min
Lab File: VL025604.D
Acq: 7 Jul 2015 10:32

Tgt Ion: 164 Resp: 902348
Ion Ratio Lower Upper
164 100
166 127.9 103.3 154.9
129 107.8 84.8 127.2
131 100.4 80.9 121.3





#53

Toluene

Concen: 10.50 ppbv

RT: 11.24 min Scan# 1337

Delta R.T. 0.02 min

Lab File: VL025604.D

Acq: 7 Jul 2015 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 2581496

Ion Ratio Lower Upper

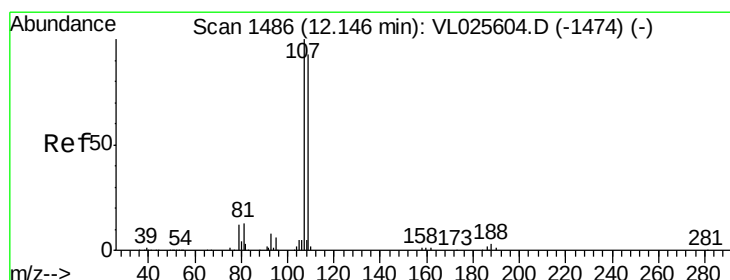
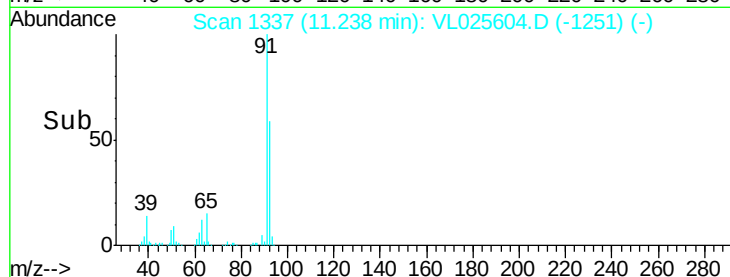
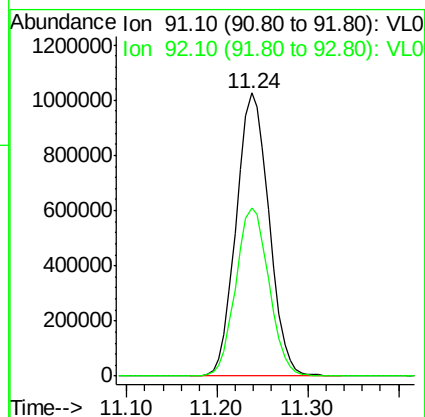
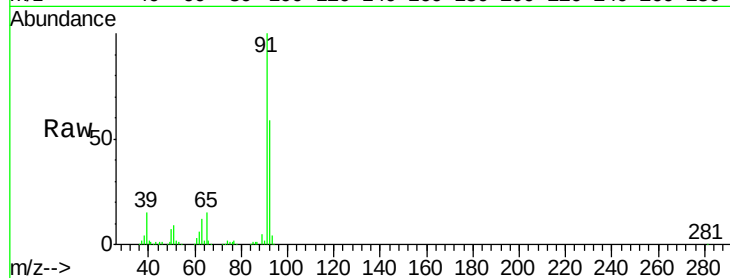
91 100

92 60.2 48.6 73.0

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7/8/2015 11:04:19 AM



#54

1,2-Dibromoethane

Concen: 10.64 ppbv

RT: 12.15 min Scan# 1486

Delta R.T. 0.03 min

Lab File: VL025604.D

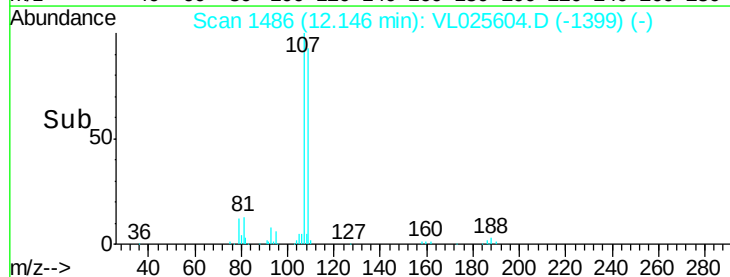
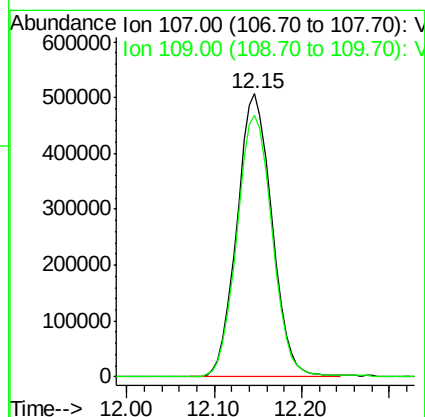
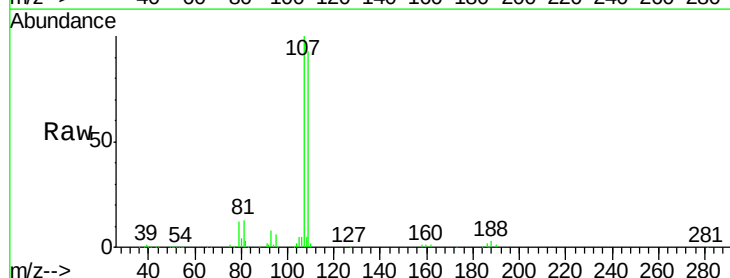
Acq: 7 Jul 2015 10:32

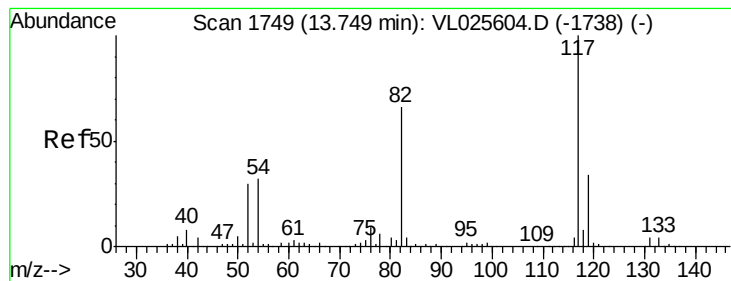
Tgt Ion: 107 Resp: 1413534

Ion Ratio Lower Upper

107 100

109 92.6 75.0 112.4





#55

Chlorobenzene-d5

Concen: 10.00 ppbv m

RT: 13.75 min Scan# 1749

Delta R.T. 0.03 min

Lab File: VL025604.D

Acq: 7 Jul 2015 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:117 Resp: 2583494

Ion Ratio Lower Upper

117 100

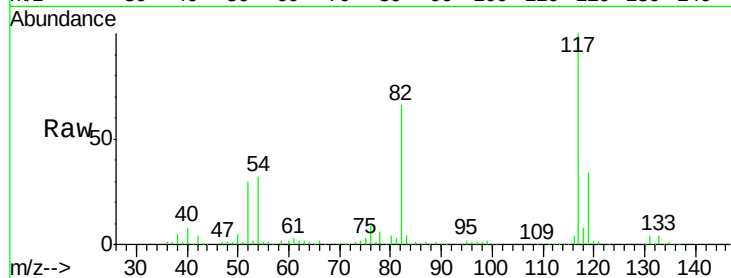
82 63.1 53.0 79.4

119 56.4 47.0 70.6

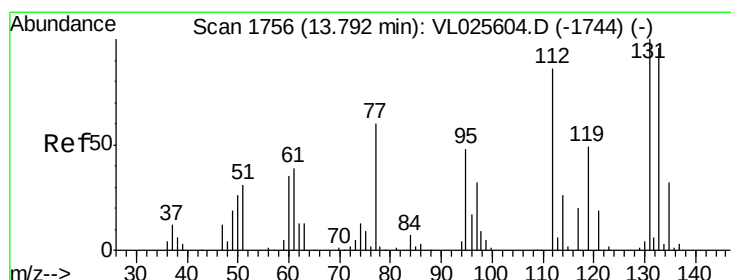
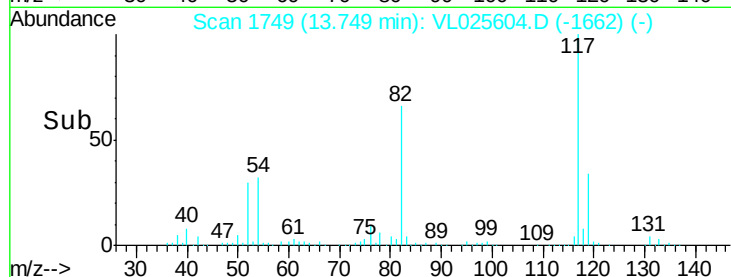
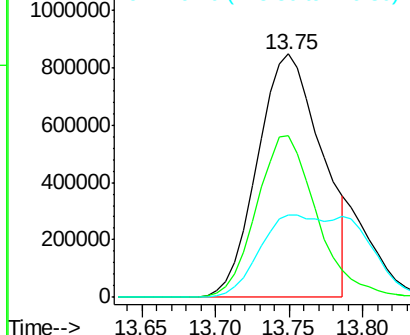
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Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): V
Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 9.70 ppbv

RT: 13.79 min Scan# 1756

Delta R.T. 0.03 min

Lab File: VL025604.D

Acq: 7 Jul 2015 10:32

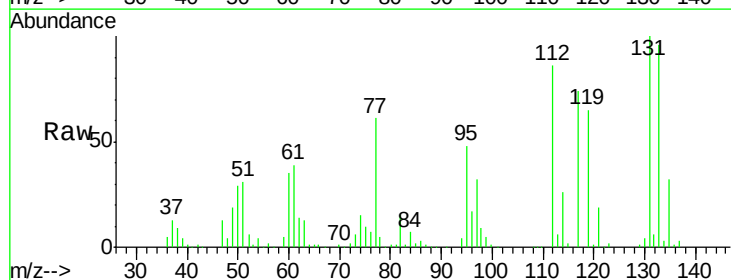
Tgt Ion:131 Resp: 1190424

Ion Ratio Lower Upper

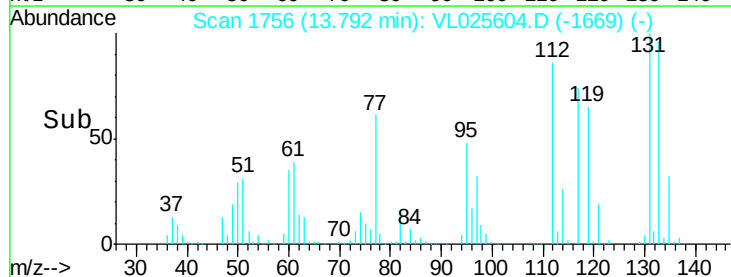
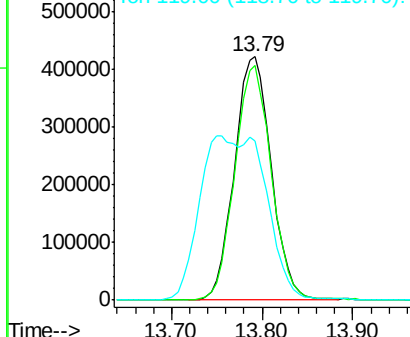
131 100

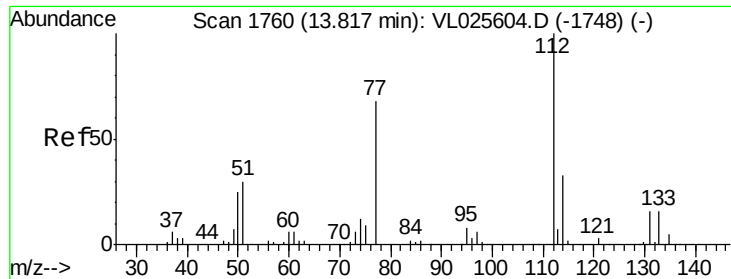
133 96.1 76.2 114.2

119 122.3 101.5 152.3



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V





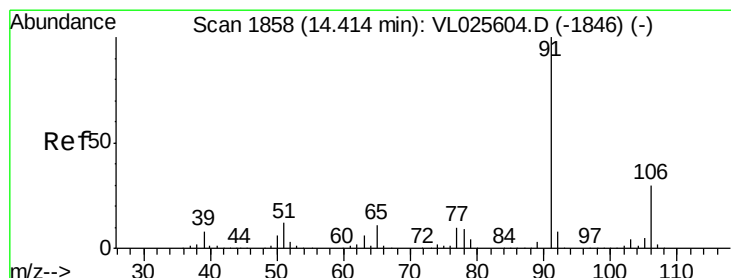
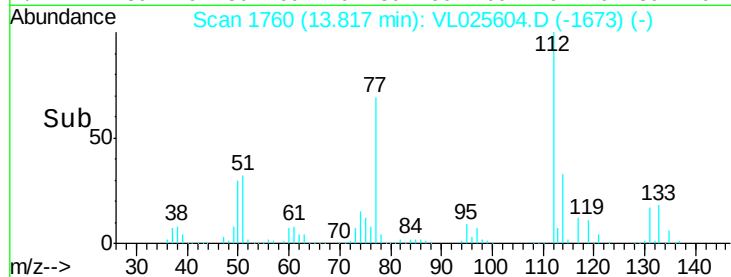
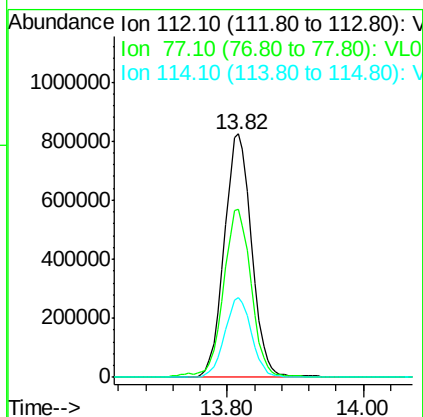
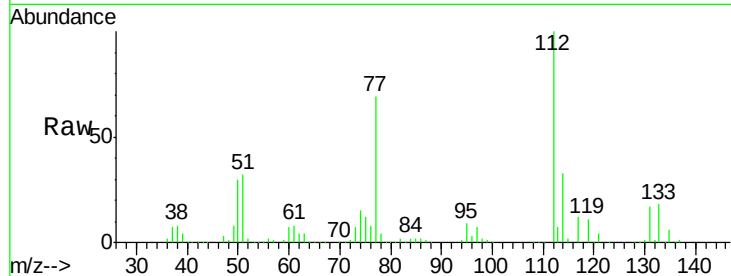
#57
Chlorobenzene
Concen: 9.10 ppbv
RT: 13.82 min Scan# 1760
Delta R.T. 0.03 min
Lab File: VL025604.D
Acq: 7 Jul 2015 10:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 112 Resp: 2303588
Ion Ratio Lower Upper
112 100
77 69.0 55.4 83.2
114 32.7 29.6 36.2

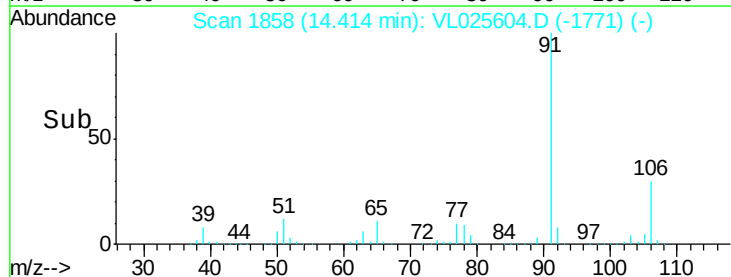
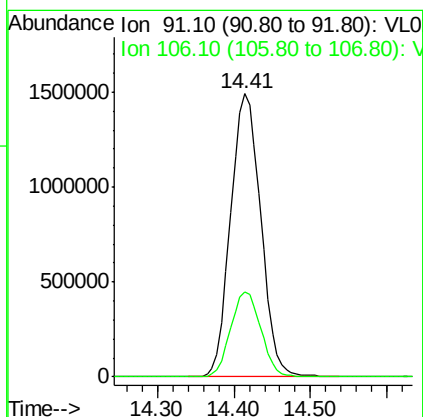
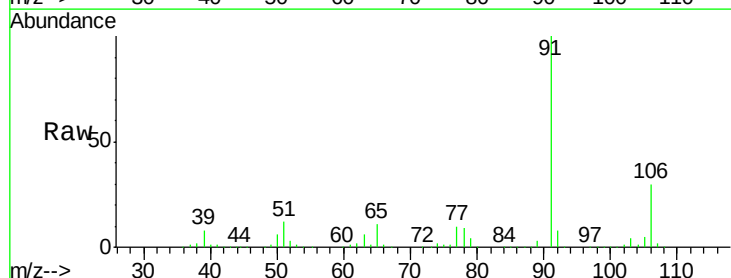
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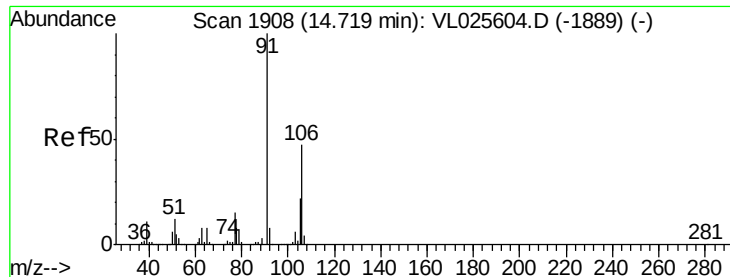
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#58
Ethyl Benzene
Concen: 9.92 ppbv
RT: 14.41 min Scan# 1858
Delta R.T. 0.03 min
Lab File: VL025604.D
Acq: 7 Jul 2015 10:32

Tgt Ion: 91 Resp: 4080838
Ion Ratio Lower Upper
91 100
106 30.2 25.1 37.7





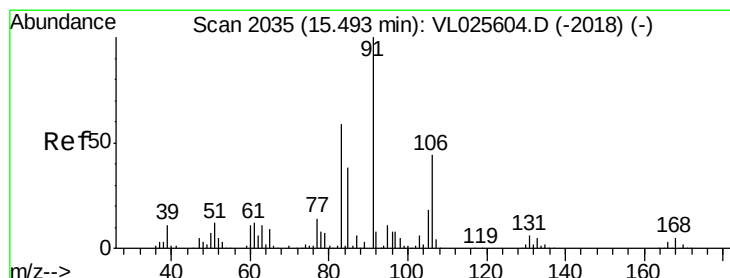
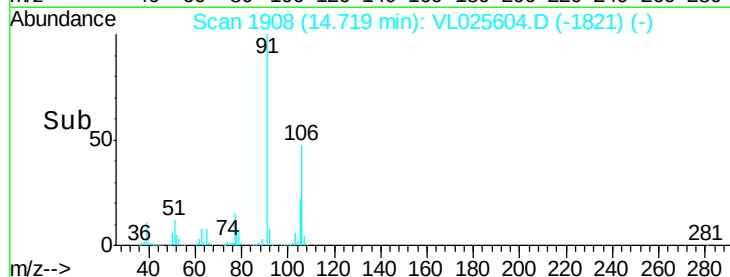
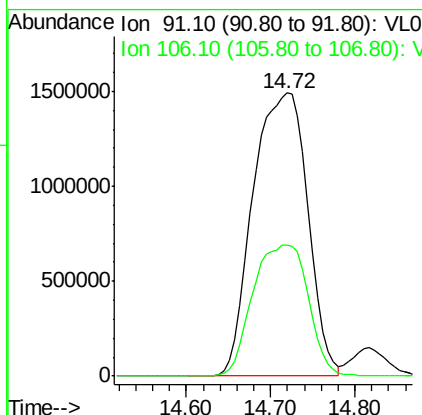
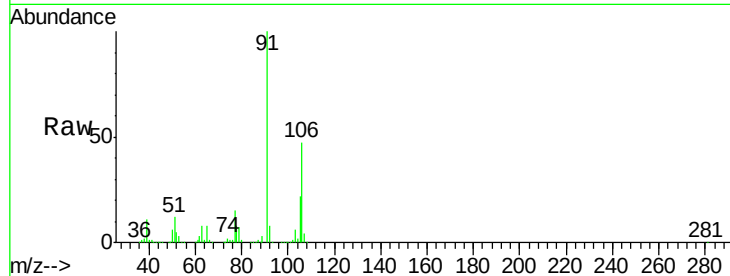
#59
m/p-Xylene
Concen: 19.30 ppbv
RT: 14.72 min Scan# 1908
Delta R.T. 0.03 min
Lab File: VL025604.D
Acq: 7 Jul 2015 10:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 91 Resp: 6632941
Ion Ratio Lower Upper
91 100
106 47.4 38.6 58.0

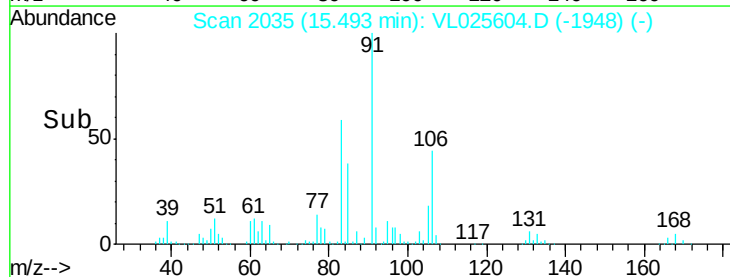
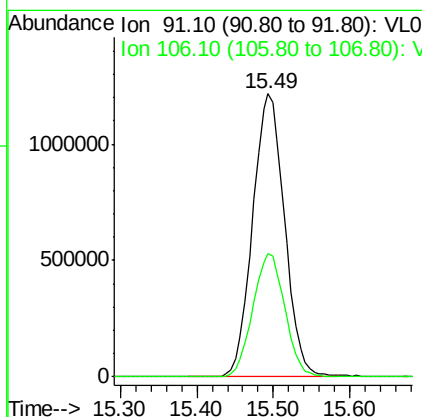
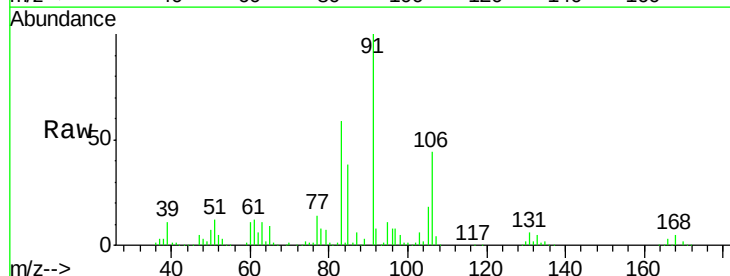
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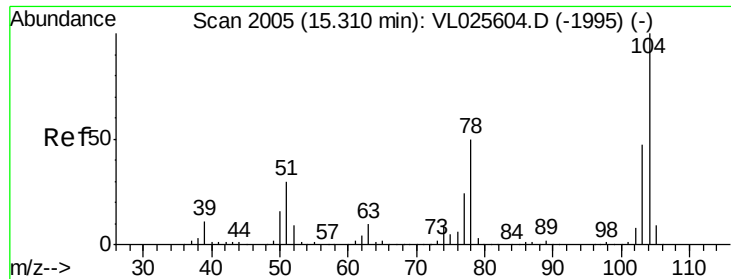
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#60
o-Xylene
Concen: 9.67 ppbv
RT: 15.49 min Scan# 2035
Delta R.T. 0.03 min
Lab File: VL025604.D
Acq: 7 Jul 2015 10:32

Tgt Ion: 91 Resp: 3530013
Ion Ratio Lower Upper
91 100
106 44.1 22.3 66.9





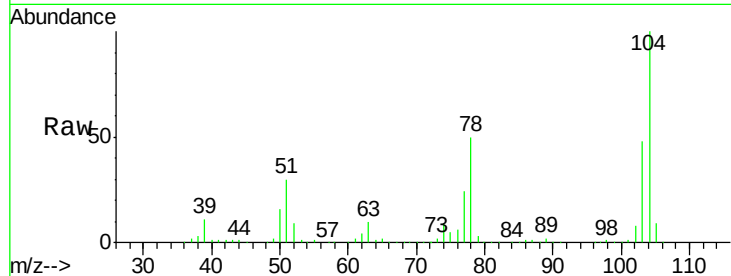
#61
Stvrene
Concen: 10.89 ppbv
RT: 15.31 min Scan# 2005
Delta R.T. 0.03 min
Lab File: VL025604.D
Acq: 7 Jul 2015 10:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

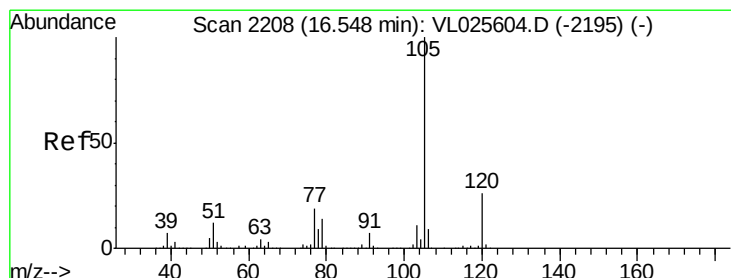
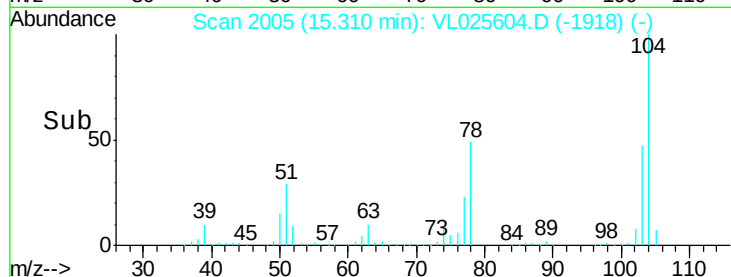
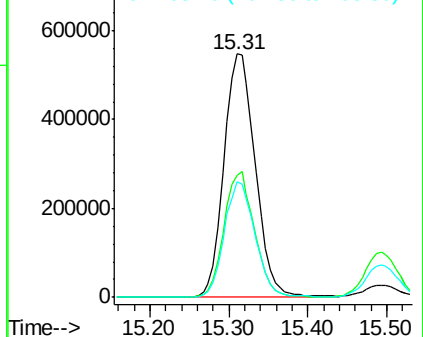
Tot Ion:104 Resp: 1515839
Ion Ratio Lower Upper
104 100
78 50.3 39.8 59.6
103 46.8 37.6 56.4

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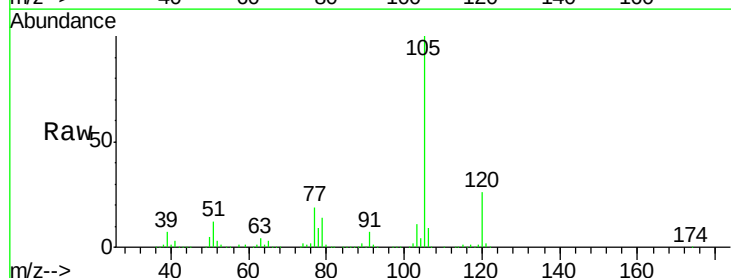


Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VL0
Ion 103.10 (102.80 to 103.80): V

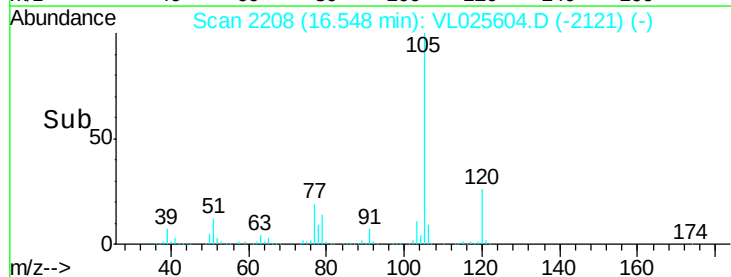
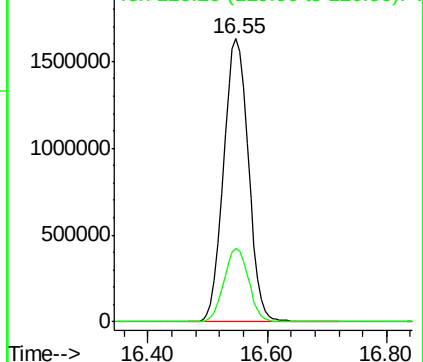


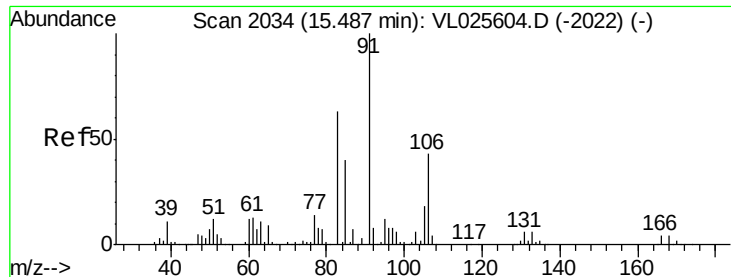
#62
Isopropylbenzene
Concen: 9.82 ppbv
RT: 16.55 min Scan# 2208
Delta R.T. 0.03 min
Lab File: VL025604.D
Acq: 7 Jul 2015 10:32

Tgt Ion:105 Resp: 4725972
Ion Ratio Lower Upper
105 100
120 25.8 20.9 31.3



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V





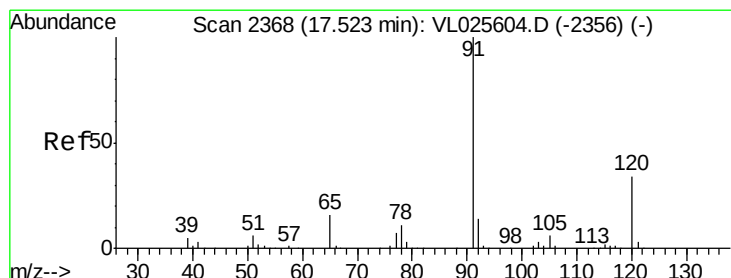
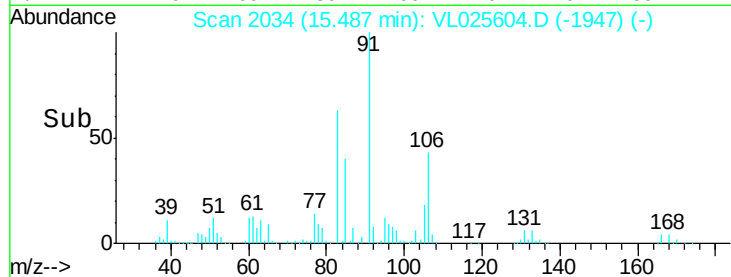
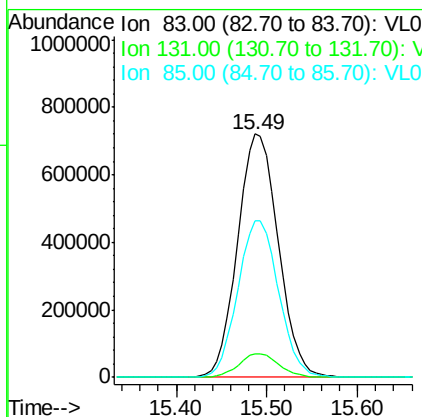
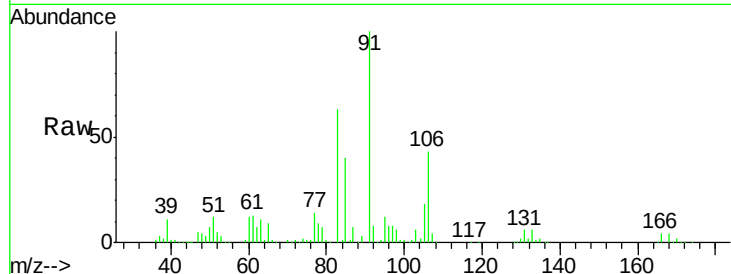
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.68 ppbv
 RT: 15.49 min Scan# 2034
 Delta R.T. 0.03 min
 Lab File: VL025604.D
 Acq: 7 Jul 2015 10:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	83	Resp	2245738
Ion Ratio	100	Lower	Upper
131	9.6	4.7	14.1
85	64.8	32.5	97.5

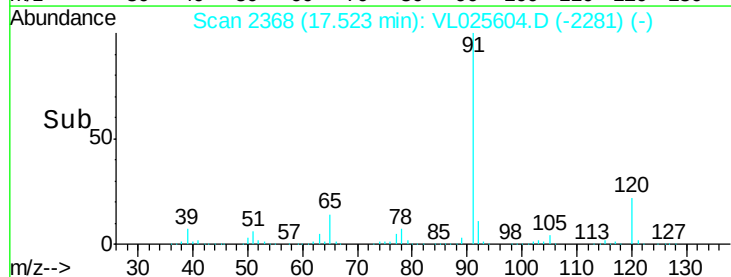
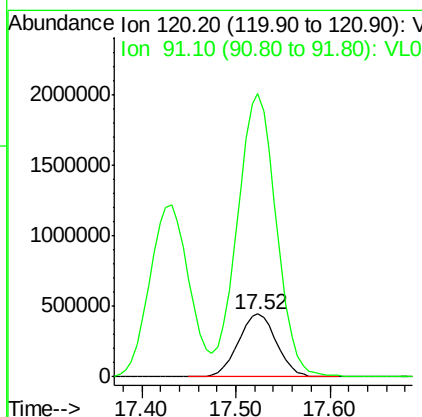
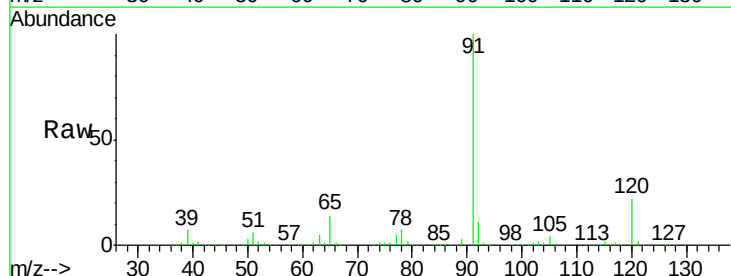
Manual Integrations
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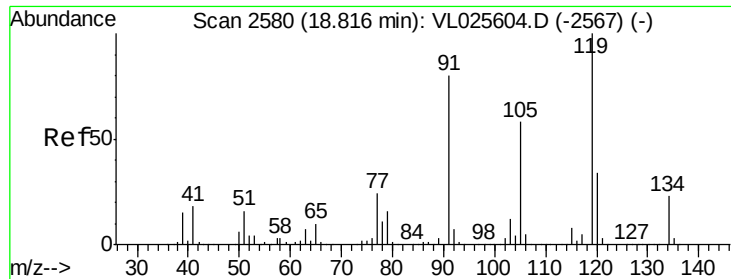
sam
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#64
 n-propylbenzene
 Concen: 9.90 ppbv
 RT: 17.52 min Scan# 2368
 Delta R.T. 0.03 min
 Lab File: VL025604.D
 Acq: 7 Jul 2015 10:32

Tgt Ion	120	Resp	1261699
Ion Ratio	100	Lower	Upper
91	463.1	355.4	533.0





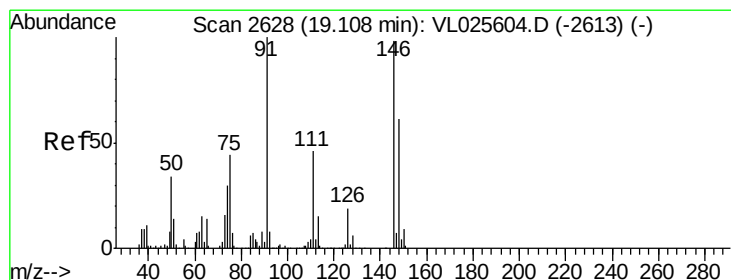
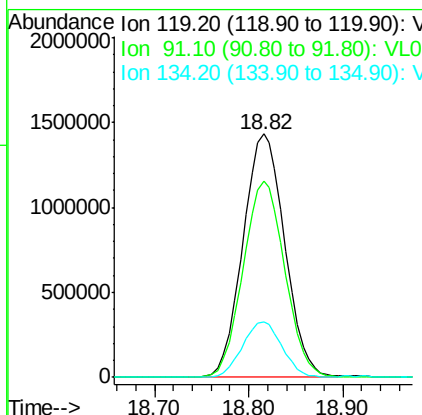
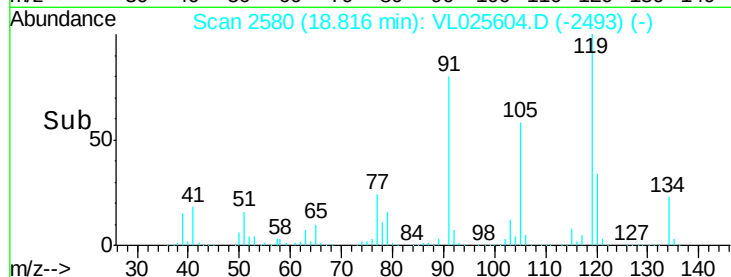
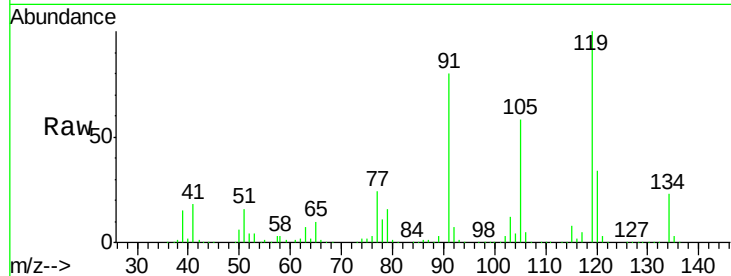
#65
 tert-Butylbenzene
 Concen: 9.95 ppbv
 RT: 18.82 min Scan# 2580
 Delta R.T. 0.03 min
 Lab File: VL025604.D
 Acq: 7 Jul 2015 10:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:119 Resp: 4450473
 Ion Ratio Lower Upper
 119 100
 91 80.6 64.2 96.2
 134 21.7 17.4 26.0

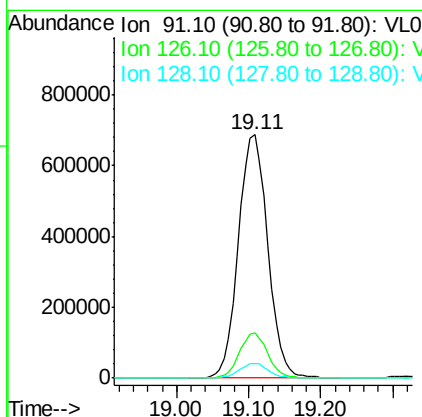
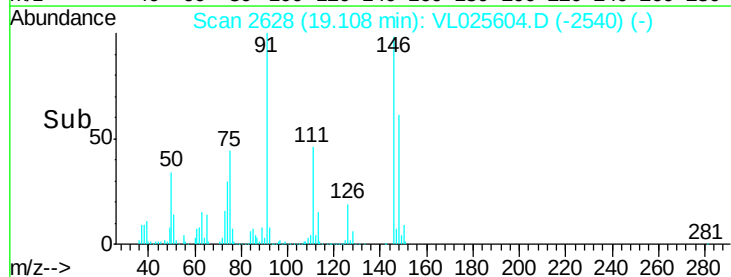
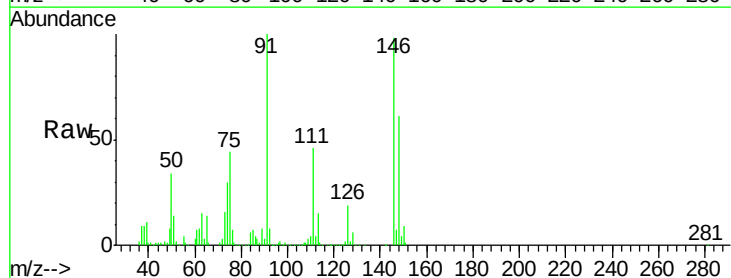
Manual Integrations
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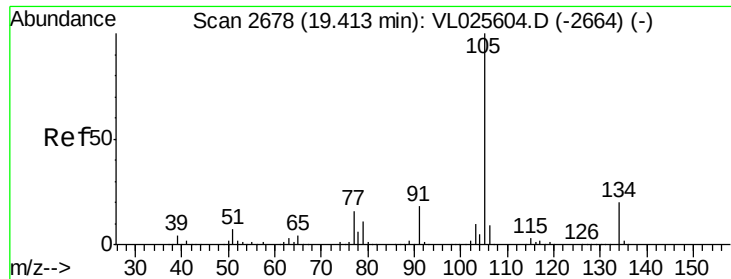
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#66
 Benzyl Chloride
 Concen: 12.75 ppbv
 RT: 19.11 min Scan# 2628
 Delta R.T. 0.04 min
 Lab File: VL025604.D
 Acq: 7 Jul 2015 10:32

Tgt Ion: 91 Resp: 1951032
 Ion Ratio Lower Upper
 91 100
 126 18.1 14.4 21.6
 128 5.8 4.6 6.8





#67

sec-Butylbenzene

Concen: 10.00 ppbv

RT: 19.41 min Scan# 2678

Delta R.T. 0.03 min

Lab File: VL025604.D

Acq: 7 Jul 2015 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 105 Resp: 6289270

Ion Ratio Lower Upper

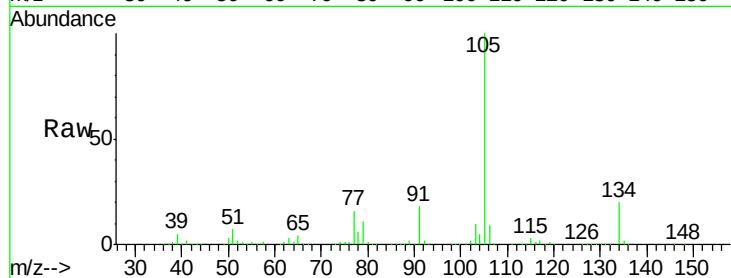
105 100

134 19.3 16.0 24.0

Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

2500000

2000000

1500000

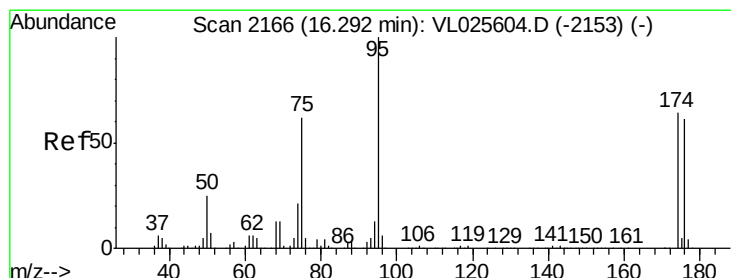
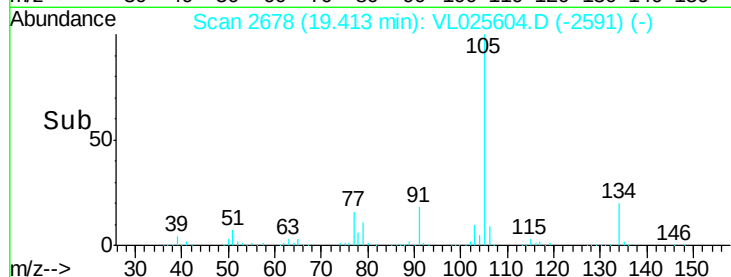
1000000

500000

0

19.40 19.60

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.73 ppbv

RT: 16.29 min Scan# 2166

Delta R.T. 0.03 min

Lab File: VL025604.D

Acq: 7 Jul 2015 10:32

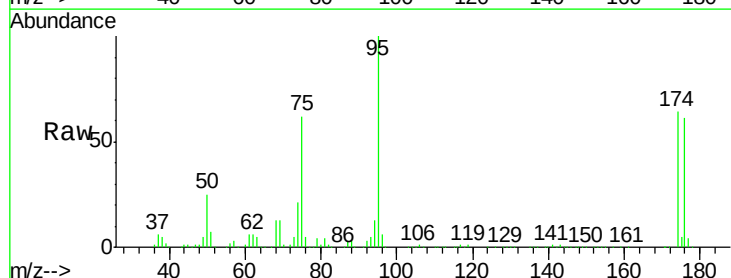
Tgt Ion: 95 Resp: 2076293

Ion Ratio Lower Upper

95 100

174 65.0 52.6 79.0

175 4.9 4.0 6.0



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

1000000

800000

600000

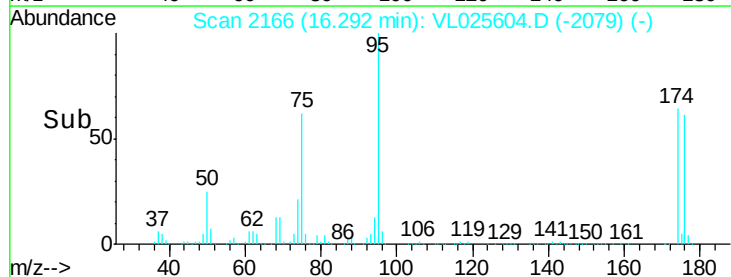
400000

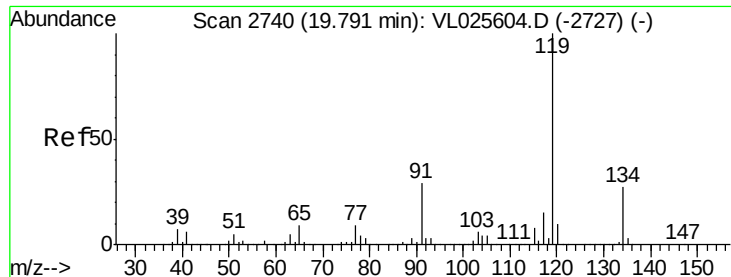
200000

0

16.20 16.40

Time-->





#69

p-Isopropyltoluene

Concen: 10.30 ppbv

RT: 19.79 min Scan# 2740

Delta R.T. 0.03 min

Lab File: VL025604.D

Acq: 7 Jul 2015 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:119 Resp: 5269633

Ion Ratio Lower Upper

119 100

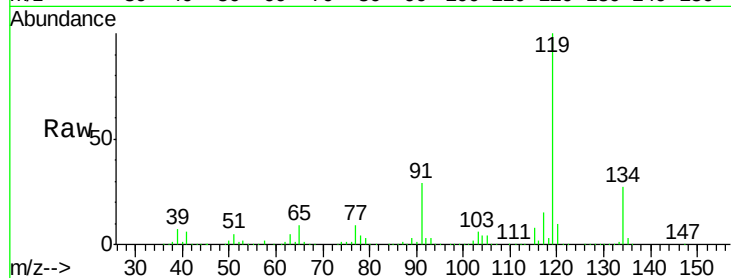
134 25.9 21.2 31.8

91 28.3 22.8 34.2

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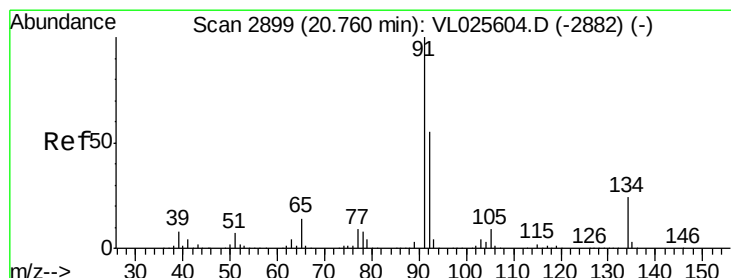
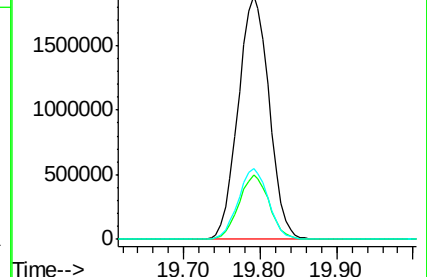
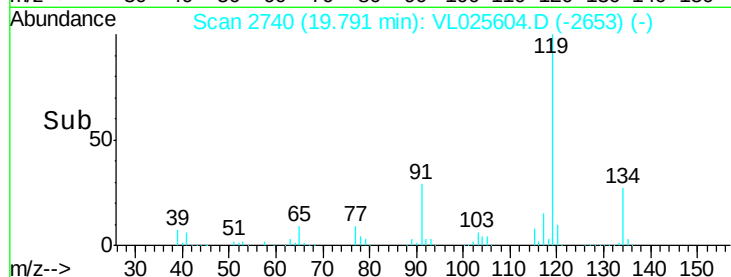
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Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 10.45 ppbv

RT: 20.76 min Scan# 2899

Delta R.T. 0.03 min

Lab File: VL025604.D

Acq: 7 Jul 2015 10:32

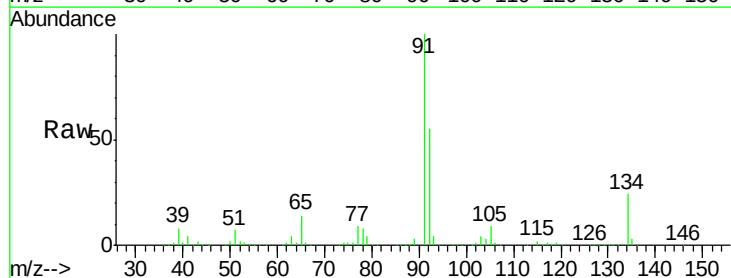
Tgt Ion: 91 Resp: 5205666

Ion Ratio Lower Upper

91 100

92 55.4 45.3 67.9

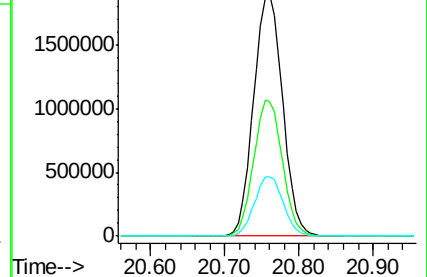
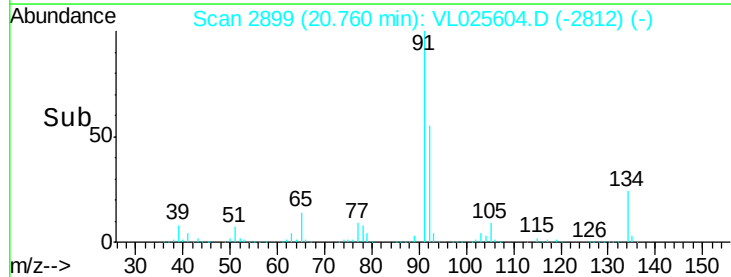
134 24.3 19.9 29.9

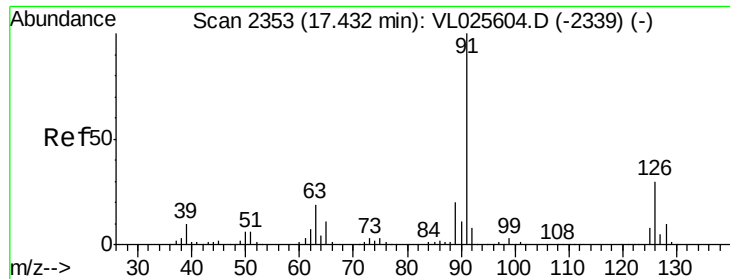


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 9.91 ppbv

RT: 17.43 min Scan# 2353

Delta R.T. 0.04 min

Lab File: VL025604.D

Acq: 7 Jul 2015 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 3549459

Ion Ratio Lower Upper

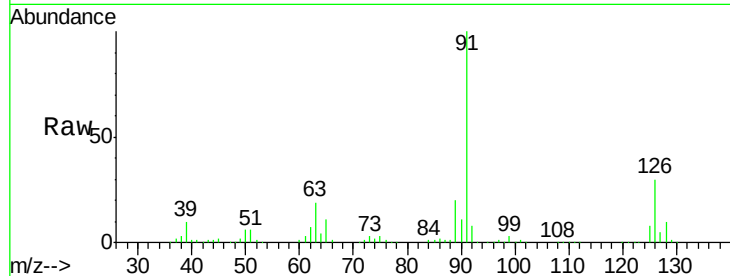
91 100

126 30.6 12.3 49.3

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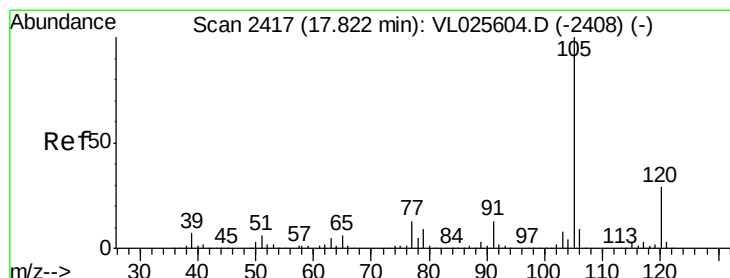
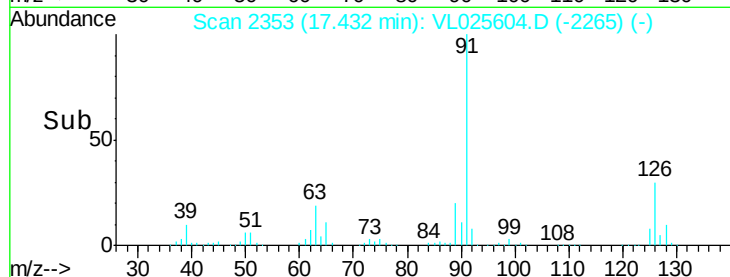
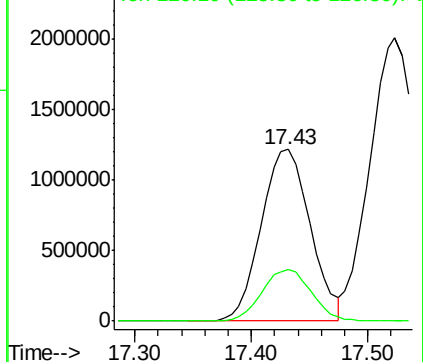
sam

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 10.22 ppbv

RT: 17.82 min Scan# 2417

Delta R.T. 0.03 min

Lab File: VL025604.D

Acq: 7 Jul 2015 10:32

Tgt Ion: 105 Resp: 4081923

Ion Ratio Lower Upper

105 100

120 29.9 24.1 36.1

91 12.9 10.5 15.7

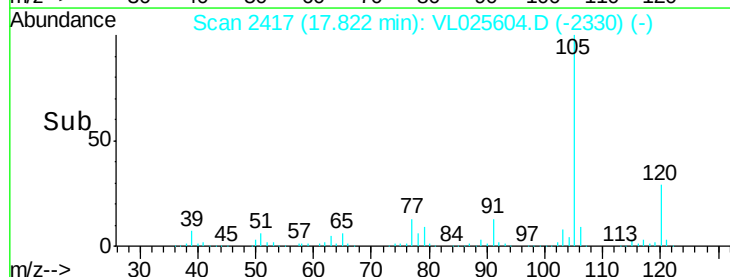
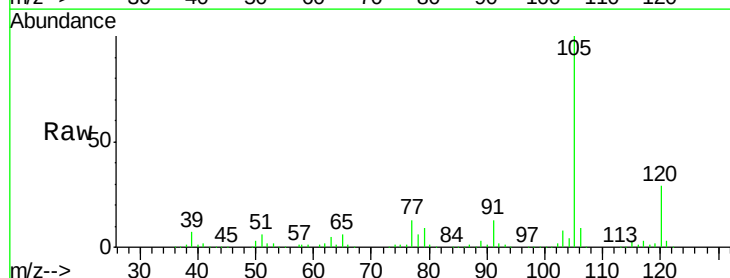
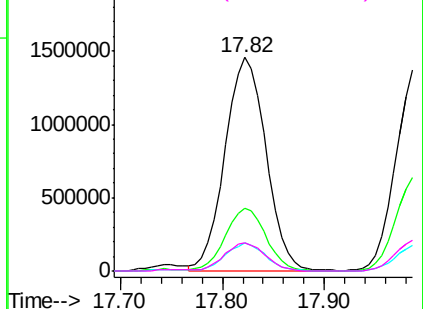
77 13.6 11.0 16.4

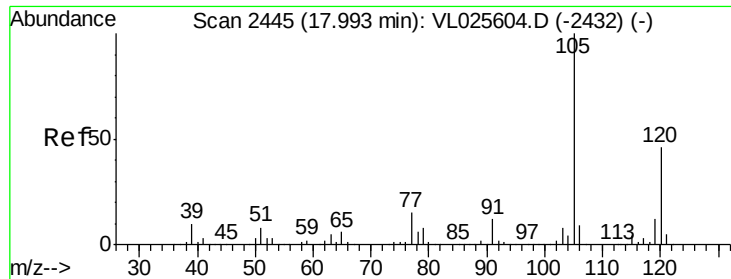
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 10.22 ppbv

RT: 17.99 min Scan# 2445

Delta R.T. 0.03 min

Lab File: VL025604.D

Acq: 7 Jul 2015 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:105 Resp: 3932238

Ion Ratio Lower Upper

105 100

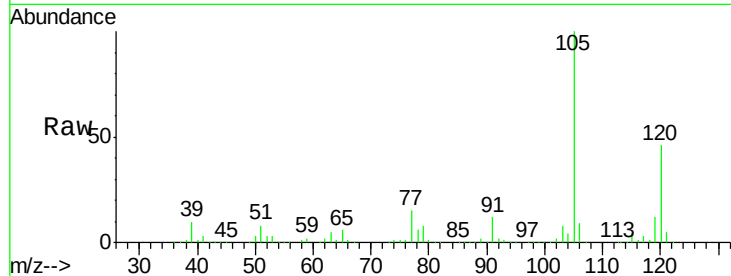
120 46.2 39.0 58.4

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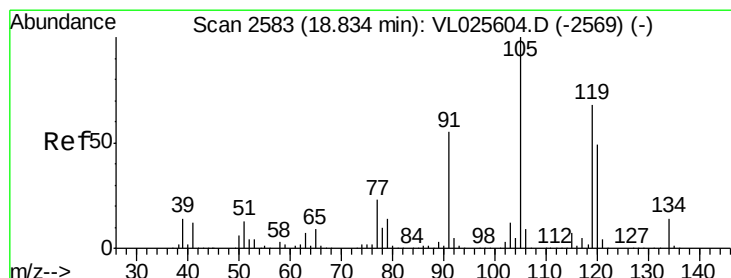
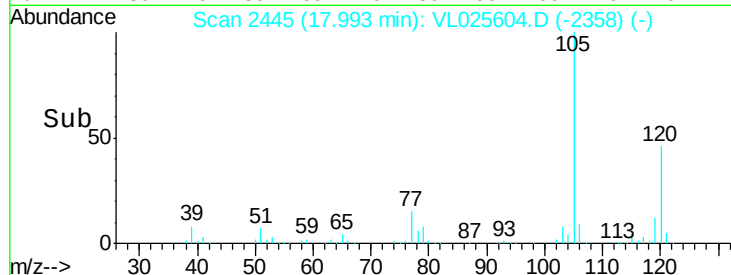
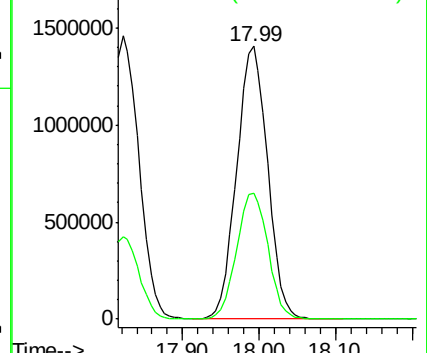
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 9.93 ppbv

RT: 18.83 min Scan# 2583

Delta R.T. 0.03 min

Lab File: VL025604.D

Acq: 7 Jul 2015 10:32

Tgt Ion:105 Resp: 4120028

Ion Ratio Lower Upper

105 100

120 49.1 39.8 59.8

91 54.7 41.9 62.9

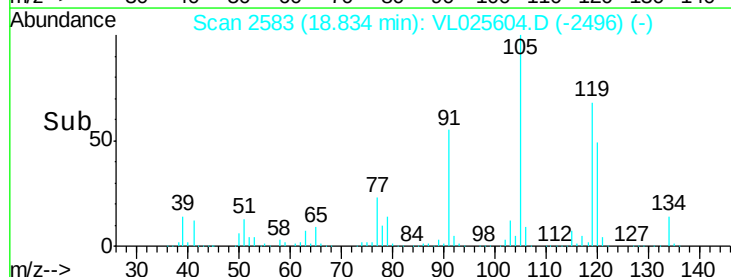
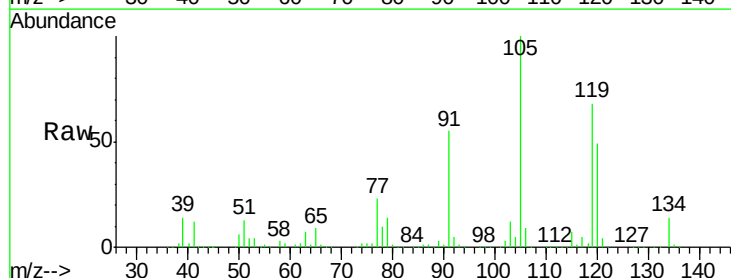
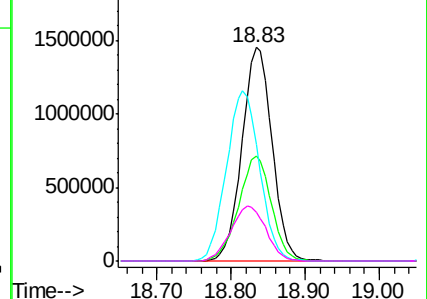
77 22.9 18.3 27.5

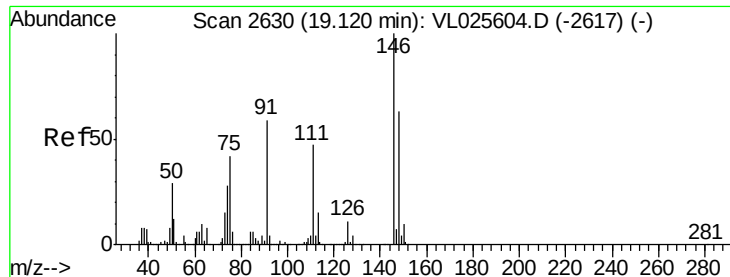
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





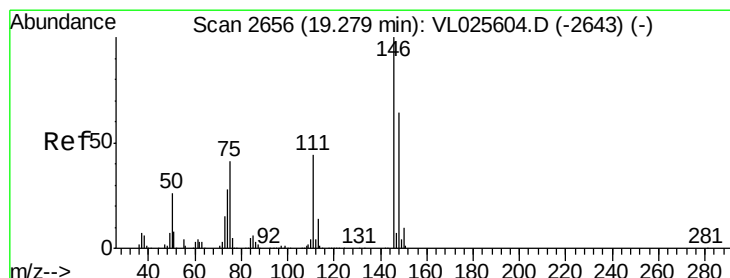
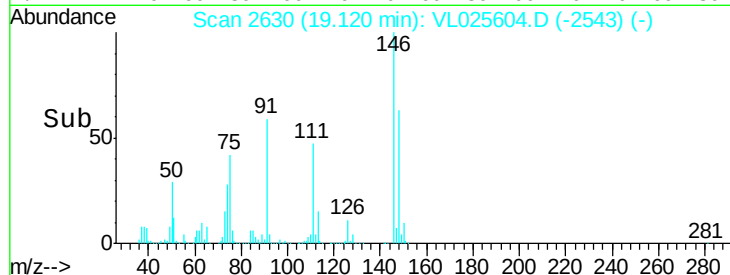
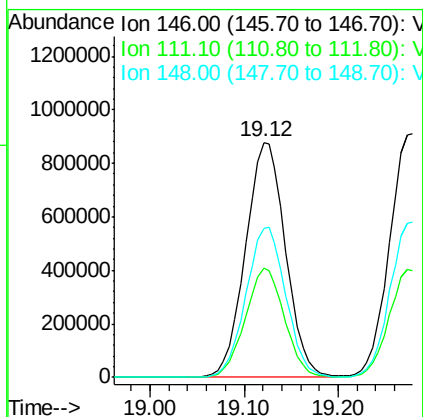
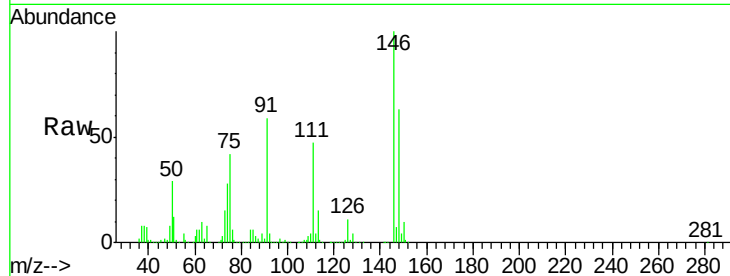
#75
 1,3-Dichlorobenzene
 Concen: 9.88 ppbv
 RT: 19.12 min Scan# 2630
 Delta R.T. 0.03 min
 Lab File: VL025604.D
 Acq: 7 Jul 2015 10:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:146 Resp: 2612100
 Ion Ratio Lower Upper
 146 100
 111 45.4 22.6 67.8
 148 63.5 31.9 95.5

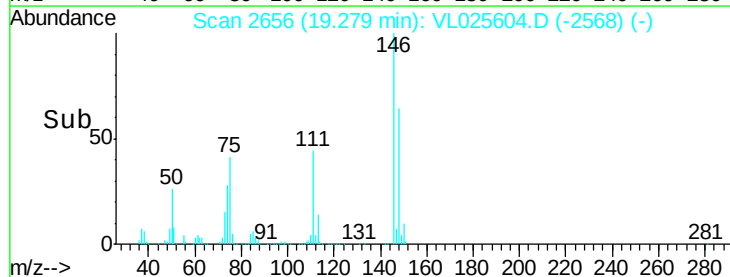
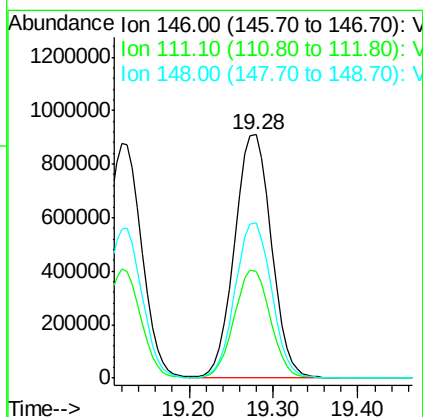
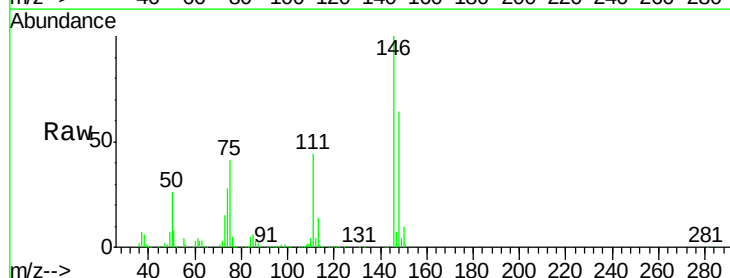
Manual Integrations
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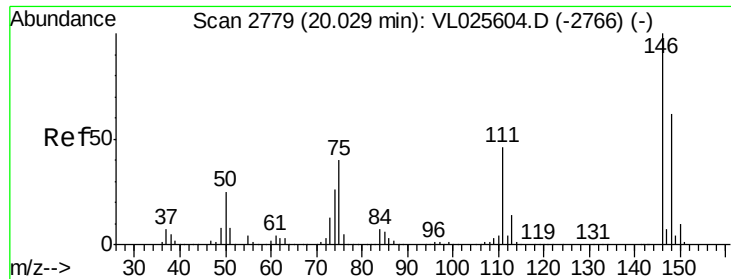
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#76
 1,4-Dichlorobenzene
 Concen: 10.15 ppbv
 RT: 19.28 min Scan# 2656
 Delta R.T. 0.04 min
 Lab File: VL025604.D
 Acq: 7 Jul 2015 10:32

Tgt Ion:146 Resp: 2685671
 Ion Ratio Lower Upper
 146 100
 111 44.1 21.8 65.4
 148 63.9 31.8 95.3





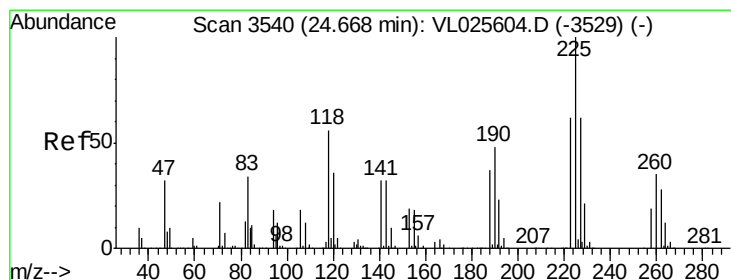
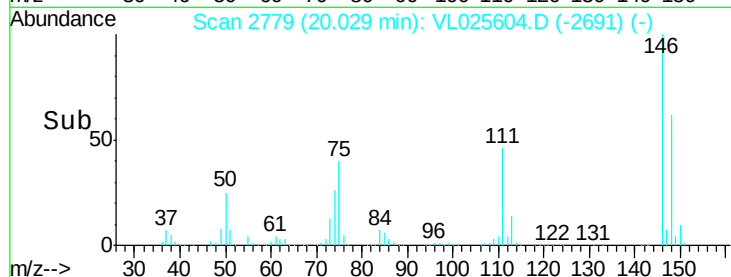
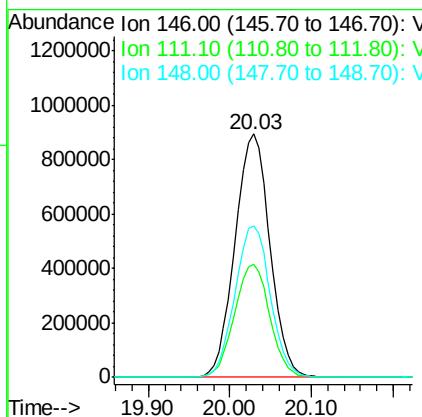
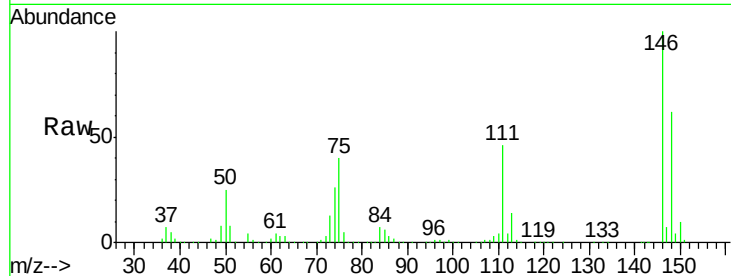
#77
 1,2-Dichlorobenzene
 Concen: 10.12 ppbv
 RT: 20.03 min Scan# 2779
 Delta R.T. 0.04 min
 Lab File: VL025604.D
 Acq: 7 Jul 2015 10:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:146 Resp: 2657048
 Ion Ratio Lower Upper
 146 100
 111 46.9 23.4 70.0
 148 63.2 31.9 95.9

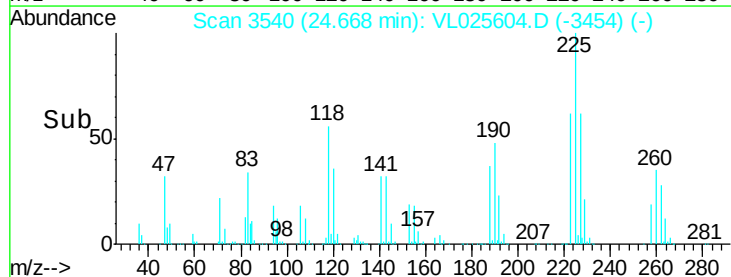
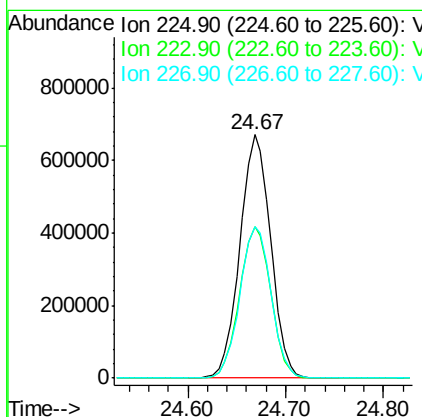
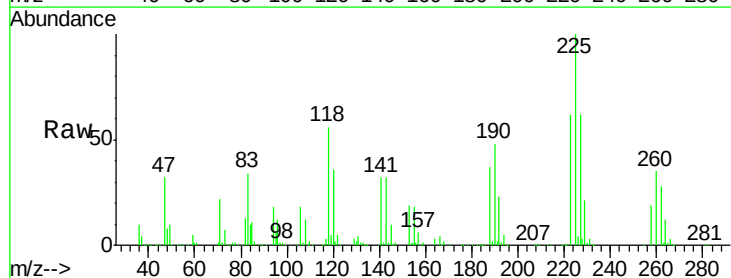
Manual Integrations
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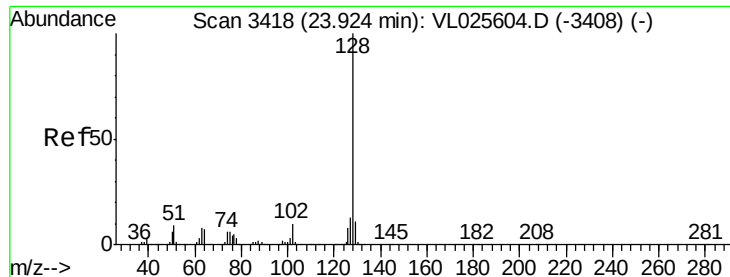
sam
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#78
 Hexachloro-1,3-Butadiene
 Concen: 10.85 ppbv
 RT: 24.67 min Scan# 3540
 Delta R.T. 0.02 min
 Lab File: VL025604.D
 Acq: 7 Jul 2015 10:32

Tgt Ion:225 Resp: 1461221
 Ion Ratio Lower Upper
 225 100
 223 63.3 51.0 76.4
 227 63.1 51.7 77.5





#79

Naphthalene

Concen: 11.29 ppbv

RT: 23.92 min Scan# 3418

Delta R.T. 0.02 min

Lab File: VL025604.D

Acq: 7 Jul 2015 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:128 Resp: 3836910

Ion Ratio Lower Upper

128 100

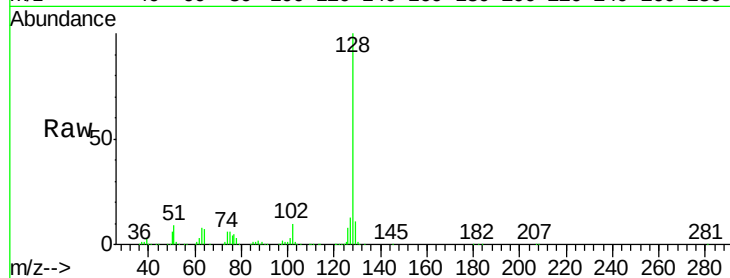
127 13.5 11.0 16.4

129 11.2 9.0 13.4

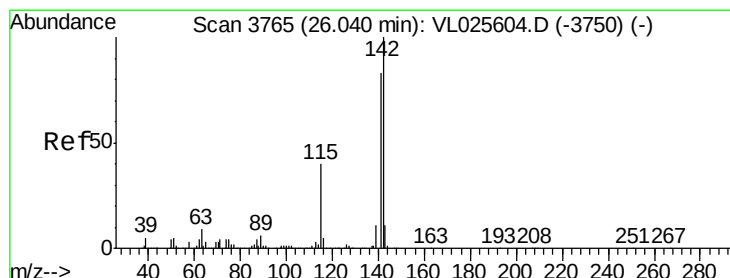
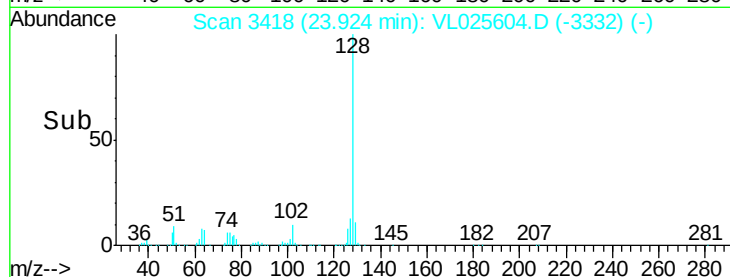
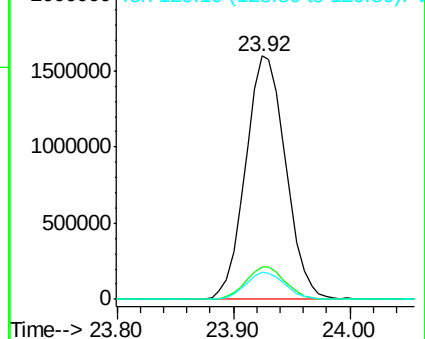
Manual Integrations
APPROVED

sam

7/8/2015 11:04:19 AM



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: 12.23 ppbv

RT: 26.04 min Scan# 3765

Delta R.T. 0.03 min

Lab File: VL025604.D

Acq: 7 Jul 2015 10:32

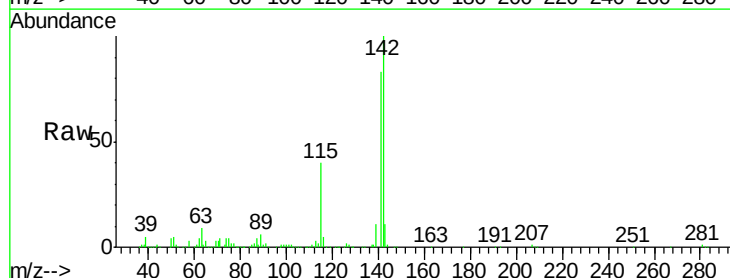
Tgt Ion:142 Resp: 1066120

Ion Ratio Lower Upper

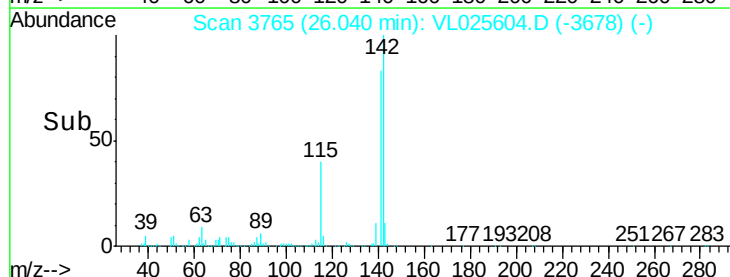
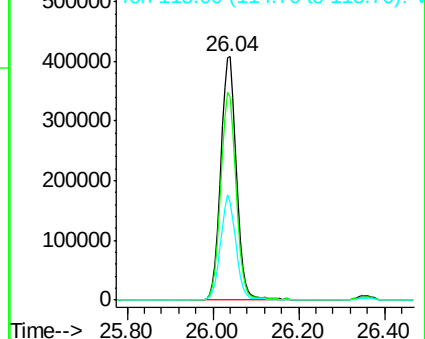
142 100

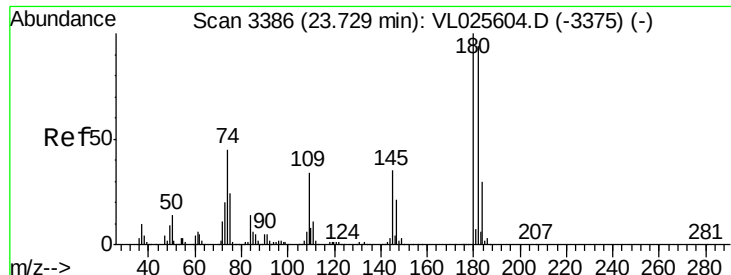
141 83.9 67.7 101.5

115 42.4 31.8 47.6



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: 11.38 ppbv
 RT: 23.73 min Scan# 3386
 Delta R.T. 0.02 min
 Lab File: VL025604.D
 Acq: 7 Jul 2015 10:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.3	114.5
184	30.5	24.2	36.4

Manual Integrations
 APPROVED

sam
 7/8/2015 11:04:19 AM

