

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102115\
 Data File : VL026233.D
 Acq On : 21 Oct 2015 9:44
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 10/22/2015 4:35:39 PM

Quant Time: Oct 21 11:31:12 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Oct 21 2015
 QLast Update : Wed Oct 21 01:20:55 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.63	49	507462	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	8.30	114	1571095	10.00	ppbv	-0.01
55) Chlorobenzene-d5	13.71	117	2026935m	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.25	95	1504186	9.62	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.20%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.62	85	1095069	10.41	ppbv	100
3) Chlorodifluoromethane	3.55	51	641029	9.98	ppbv	100
4) Chloromethane	3.73	50	356301	10.28	ppbv	100
5) Vinyl Chloride	3.87	62	376705	10.33	ppbv	100
6) Bromomethane	4.12	94	274027	10.46	ppbv	96
7) Chloroethane	4.21	64	160464	10.48	ppbv	95
8) Dichlorotetrafluoroethane	3.78	85	903847	10.00	ppbv	100
9) Propene	3.57	41	289424	9.62	ppbv	100
10) Heptane	9.32	43	1016298	10.09	ppbv	98
11) Trichlorofluoromethane	4.67	101	1092540	10.59	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	5.28	101	738685	10.49	ppbv	99
13) Ethanol	4.31	45	35888	7.95	ppbv	96
14) Bromoethene	4.43	108	310514	10.45	ppbv	99
15) Acetone	4.58	43	649814	8.70	ppbv	99
16) 1,3-Butadiene	3.95	39	337266	10.12	ppbv	100
17) tert-Butyl alcohol	5.10	59	609621	11.94	ppbv	100
18) 1,1-Dichloroethene	5.06	96	340486	10.71	ppbv	99
19) Isopropyl Alcohol	4.73	45	313766	10.74	ppbv	91
20) Methylene Chloride	5.12	84	305338	10.24	ppbv	98
21) Allyl Chloride	5.20	41	519800	10.66	ppbv	99
22) trans-1,2-Dichloroethene	5.74	96	427687	10.43	ppbv	96
23) Vinyl Acetate	5.96	43	1387942	10.08	ppbv	99
24) 1,1-Dichloroethane	5.88	63	888448	10.23	ppbv	100
25) Ethyl Acetate	6.64	43	1401580	10.01	ppbv	100
26) Hexane	6.63	57	686973	9.82	ppbv	99
27) Carbon Disulfide	5.36	76	966296	10.80	ppbv	100
28) Methyl tert-Butyl Ether	5.93	73	1287010	10.12	ppbv	100
29) Chloroform	6.72	83	1044456	10.28	ppbv	99
30) Cyclohexane	8.25	84	701684	10.02	ppbv	99
31) cis-1,2-Dichloroethene	6.49	61	660277	10.39	ppbv	100
32) 1,1,1-Trichloroethane	7.57	97	1116135	9.91	ppbv	100
34) 2-Butanone	6.17	43	868918	9.79	ppbv	99
35) Carbon Tetrachloride	8.13	117	1160444	9.70	ppbv	98
36) Benzene	7.99	78	1567876	9.80	ppbv	99
37) 1,2-Dichloroethane	7.34	62	844099	10.26	ppbv	100
38) Trichloroethene	9.03	130	654263	8.43	ppbv	99
39) 1,2-Dichloropropane	8.79	63	563894	10.02	ppbv	99
40) 1,4-Dioxane	9.09	88	113632	10.74	ppbv	# 35
41) Tetrahydrofuran	7.09	42	516506	10.05	ppbv	99
42) Bromodichloromethane	8.99	83	1190200	10.06	ppbv	98
43) Methyl Methacrylate	9.24	69	604202	10.37	ppbv	98

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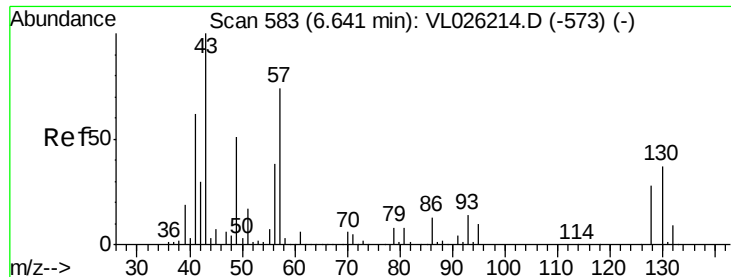
Manual Integrations
 APPROVED

MMDadoda
 10/22/2015 4:35:39 PM

Quant Time: Oct 21 11:31:12 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Oct 21 2015
 QLast Update : Wed Oct 21 01:20:55 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.06	57	2470930	9.54	ppbv	100
45) t-1,3-Dichloropropene	10.62	75	962068	10.59	ppbv	99
46) cis-1,3-Dichloropropene	9.99	75	1101215	10.35	ppbv	99
47) 1,1,2-Trichloroethane	10.85	97	717908	10.15	ppbv	99
48) Dibromochloromethane	11.77	129	1177204	10.22	ppbv	100
49) Bromoform	14.78	173	981907	10.09	ppbv	100
50) 4-Methyl-2-Pentanone	10.06	43	1242905	10.37	ppbv	100
51) 2-Hexanone	11.59	43	1211263	10.82	ppbv #	99
52) Tetrachloroethene	12.76	164	732695	7.98	ppbv	99
53) Toluene	11.20	91	2142656	9.85	ppbv	100
54) 1,2-Dibromoethane	12.11	107	1102972	10.08	ppbv	99
56) 1,1,1,2-Tetrachloroethane	13.76	131	840471	8.64	ppbv	99
57) Chlorobenzene	13.78	112	1761465	9.08	ppbv	100
58) Ethyl Benzene	14.38	91	3069468	9.34	ppbv	99
59) m/p-Xylene	14.68	91	4682796	18.21	ppbv	100
60) o-Xylene	15.46	91	2405182	8.95	ppbv	99
61) Styrene	15.28	104	1209590	9.94	ppbv	100
62) Isopropylbenzene	16.51	105	3423088	9.15	ppbv	100
63) 1,1,2,2-Tetrachloroethane	15.46	83	1571964	8.84	ppbv	99
64) n-propylbenzene	17.49	120	952555	9.26	ppbv	92
65) tert-Butylbenzene	18.77	119	2974097	8.71	ppbv	100
66) Benzyl Chloride	19.07	91	1358693	9.64	ppbv	100
67) sec-Butylbenzene	19.37	105	4312338	9.06	ppbv	100
69) p-Isopropyltoluene	19.75	119	3592076	9.03	ppbv	100
70) n-Butylbenzene	20.72	91	3358103	9.23	ppbv	100
71) 2-Chlorotoluene	17.39	91	2582249	9.38	ppbv	100
72) 4-Ethyltoluene	17.79	105	2948764	9.43	ppbv	100
73) 1,3,5-Trimethylbenzene	17.95	105	2712658	9.30	ppbv	100
74) 1,2,4-Trimethylbenzene	18.80	105	2638779	8.73	ppbv	99
75) 1,3-Dichlorobenzene	19.08	146	1783762	9.03	ppbv	100
76) 1,4-Dichlorobenzene	19.24	146	1874173	9.08	ppbv	100
77) 1,2-Dichlorobenzene	19.99	146	1809623	9.08	ppbv	100
78) Hexachloro-1,3-Butadiene	24.64	225	769212	7.53	ppbv	99
79) Naphthalene	23.89	128	2447415	9.19	ppbv	99
80) Naphthalene, 2-methyl-	26.00	142	418632	8.75	ppbv	98
81) 1,2,4-Trichlorobenzene	23.70	180	1115118	8.70	ppbv	99

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



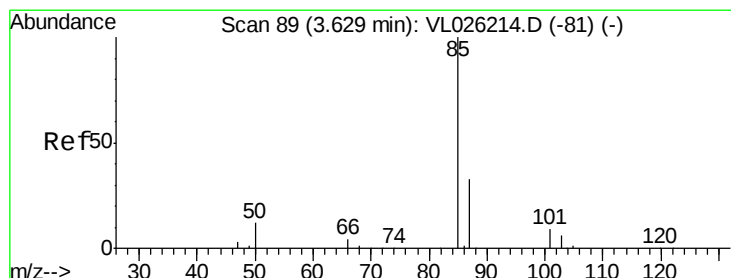
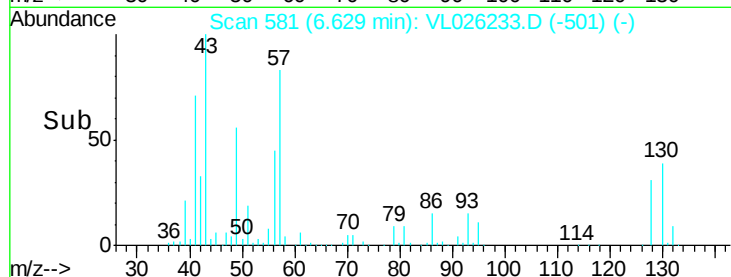
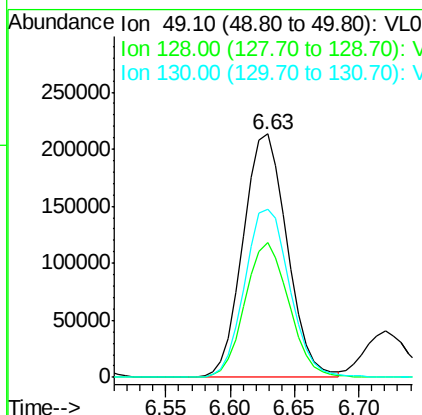
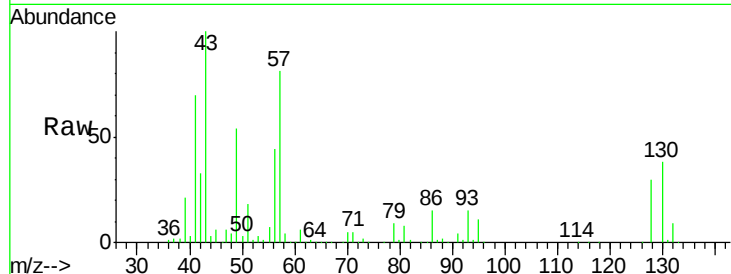
#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 6.63 min Scan# 581
Delta R.T. -0.01 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Instrument :
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ClientSampleId :
VSTDCCC010

Tot Ion: 49 Resp: 507462
Ion Ratio Lower Upper
49 100
128 55.4 28.2 84.7
130 70.9 36.0 108.1

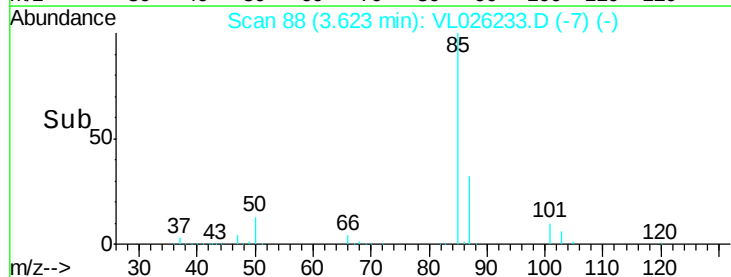
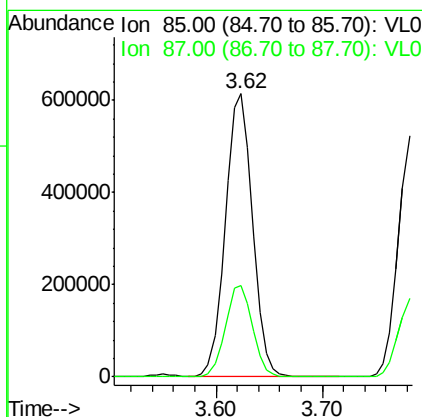
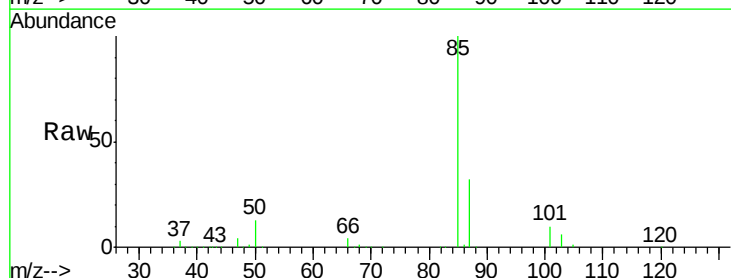
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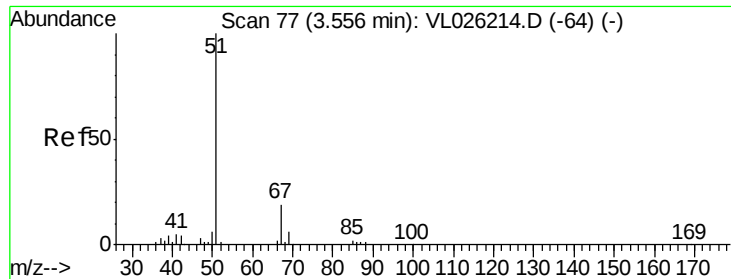
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#2
Dichlorodifluoromethane
Concen: 10.41 ppbv
RT: 3.62 min Scan# 88
Delta R.T. -0.01 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Tgt Ion: 85 Resp: 1095069
Ion Ratio Lower Upper
85 100
87 32.5 26.1 39.1





#3

Chlorodifluoromethane

Concen: 9.98 ppbv

RT: 3.55 min Scan# 76

Delta R.T. -0.01 min

Lab File: VL026233.D

Acq: 21 Oct 2015 9:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 51 Resp: 641029

Ion Ratio Lower Upper

51 100

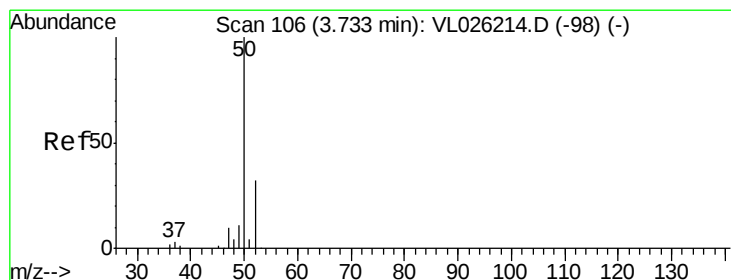
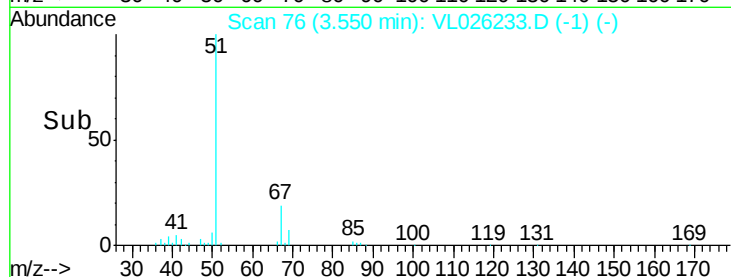
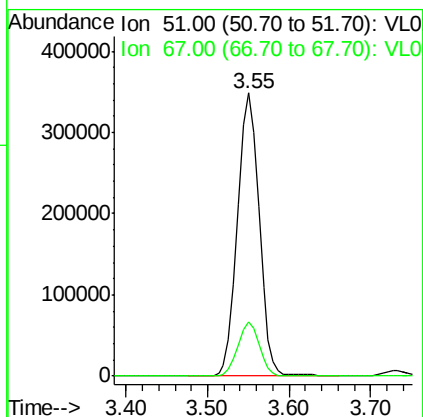
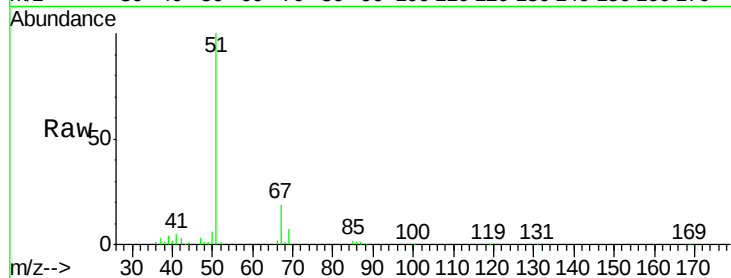
67 19.2 15.3 22.9

Manual Integrations

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#4

Chloromethane

Concen: 10.28 ppbv

RT: 3.73 min Scan# 105

Delta R.T. -0.01 min

Lab File: VL026233.D

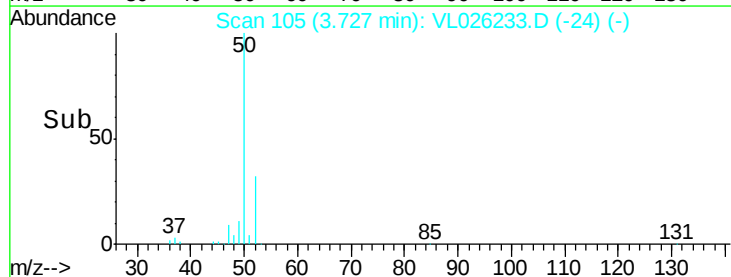
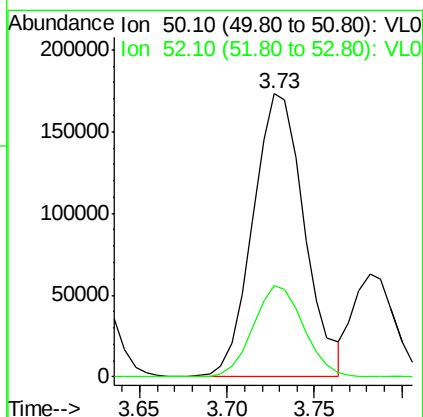
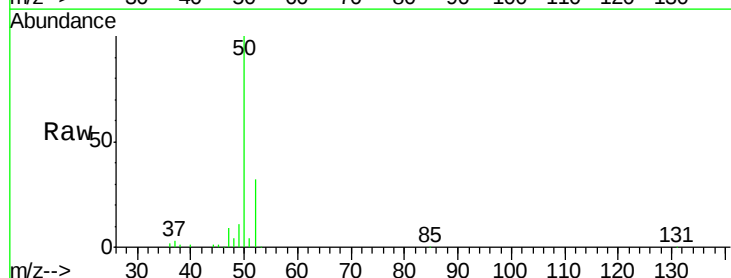
Acq: 21 Oct 2015 9:44

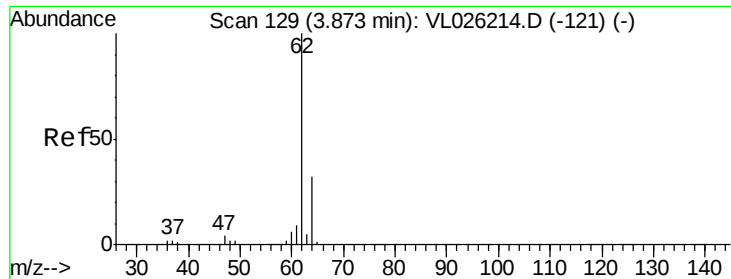
Tgt Ion: 50 Resp: 356301

Ion Ratio Lower Upper

50 100

52 32.2 25.8 38.6





#5

Vinyl Chloride

Concen: 10.33 ppbv

RT: 3.87 min Scan# 128

Delta R.T. -0.01 min

Lab File: VL026233.D

Acq: 21 Oct 2015 9:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 376705

Ion Ratio Lower Upper

62 100

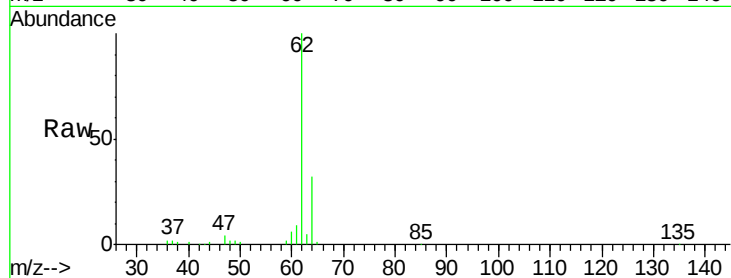
64 31.9 25.6 38.4

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.87

200000

150000

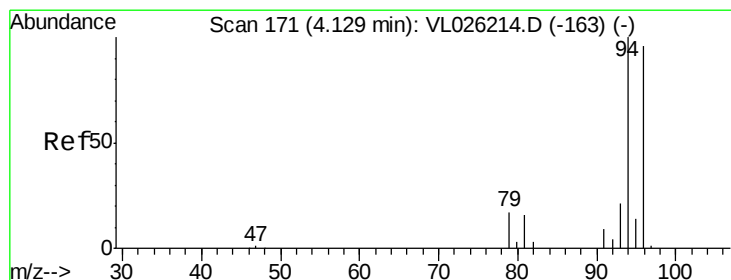
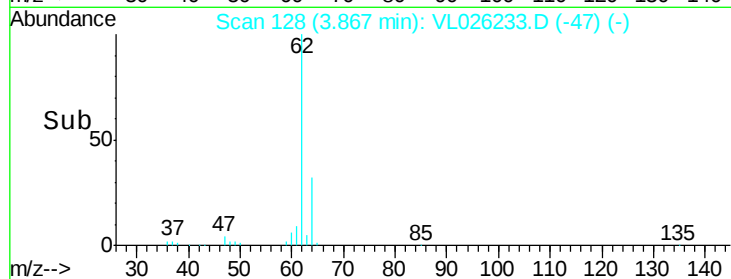
100000

50000

0

3.80 3.90 4.00

Time-->



#6

Bromomethane

Concen: 10.46 ppbv

RT: 4.12 min Scan# 170

Delta R.T. -0.01 min

Lab File: VL026233.D

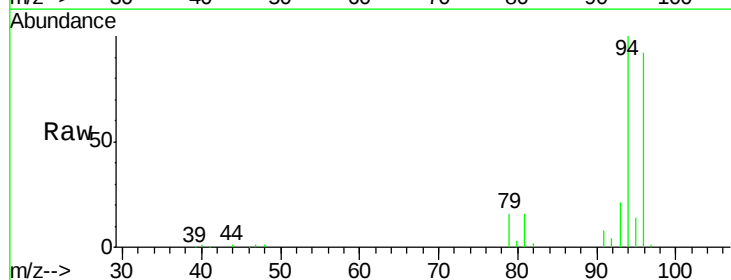
Acq: 21 Oct 2015 9:44

Tgt Ion: 94 Resp: 274027

Ion Ratio Lower Upper

94 100

96 92.1 76.5 114.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

4.12

150000

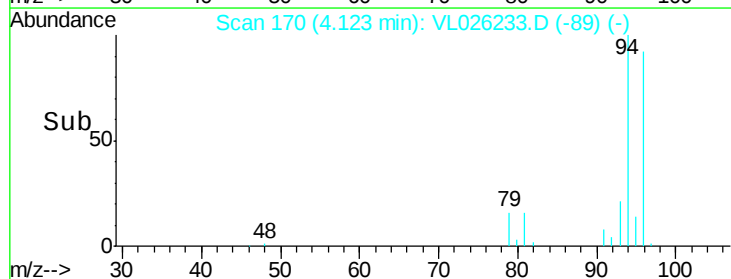
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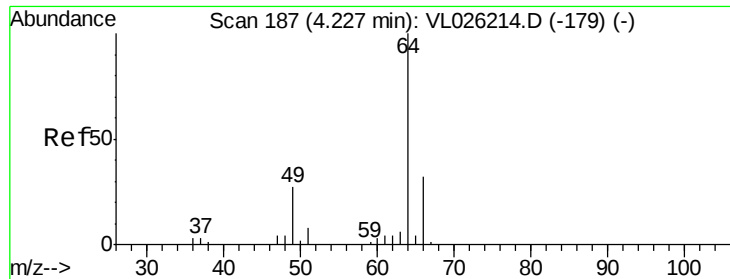
50000

0

4.10 4.20

Time-->





#7

Chloroethane

Concen: 10.48 ppbv

RT: 4.21 min Scan# 185

Delta R.T. -0.01 min

Lab File: VL026233.D

Acq: 21 Oct 2015 9:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 160464

Ion Ratio Lower Upper

64 100

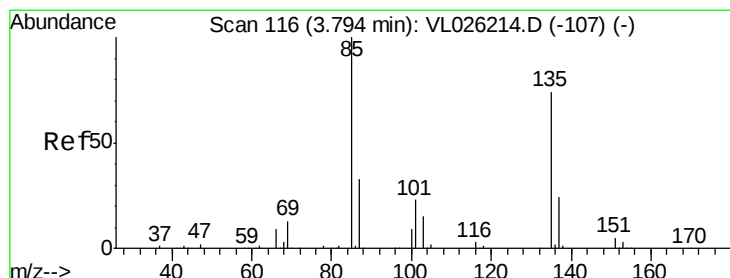
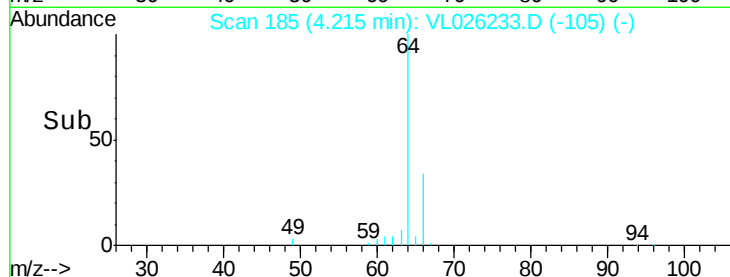
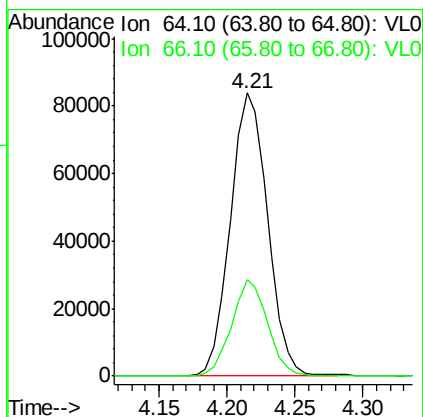
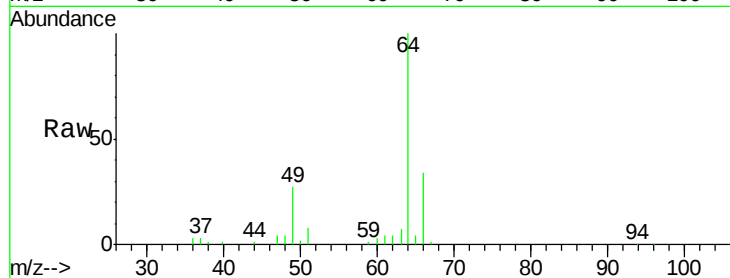
66 34.2 25.4 38.0

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 10.00 ppbv

RT: 3.78 min Scan# 114

Delta R.T. -0.01 min

Lab File: VL026233.D

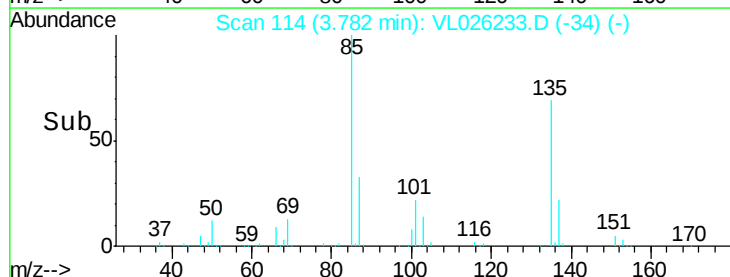
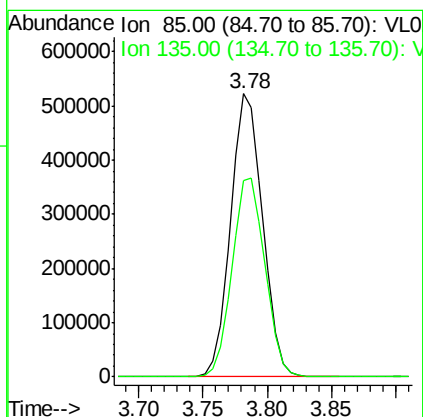
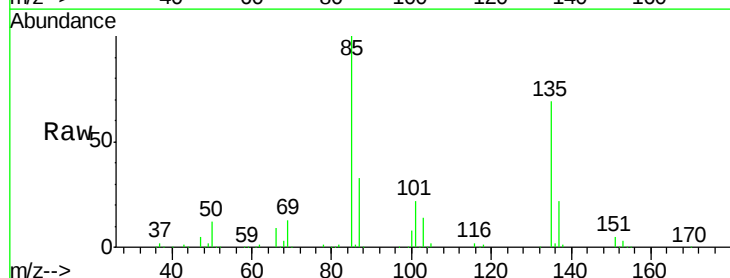
Acq: 21 Oct 2015 9:44

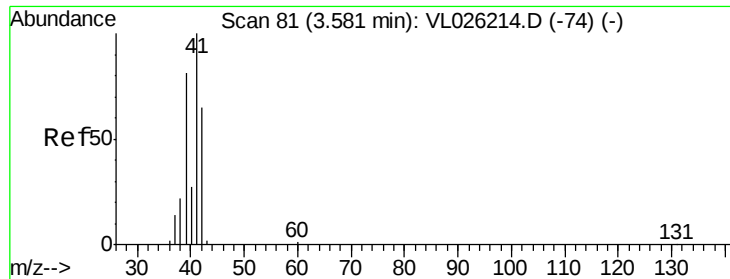
Tgt Ion: 85 Resp: 903847

Ion Ratio Lower Upper

85 100

135 72.1 57.8 86.8





#9

Propene

Concen: 9.62 ppbv

RT: 3.57 min Scan# 80

Delta R.T. -0.01 min

Lab File: VL026233.D

Acq: 21 Oct 2015 9:44

Instrument :

MSVOA_L

ClientSampleId :

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Tot Ion: 41 Resp: 289424

Ion Ratio Lower Upper

41 100

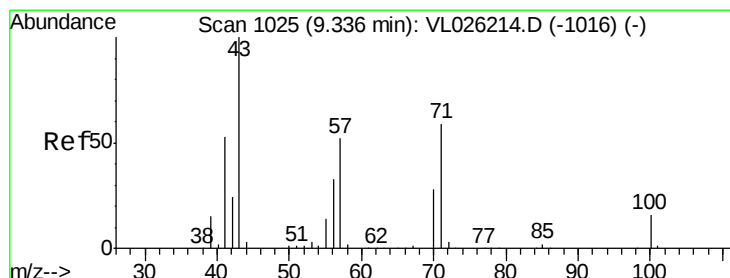
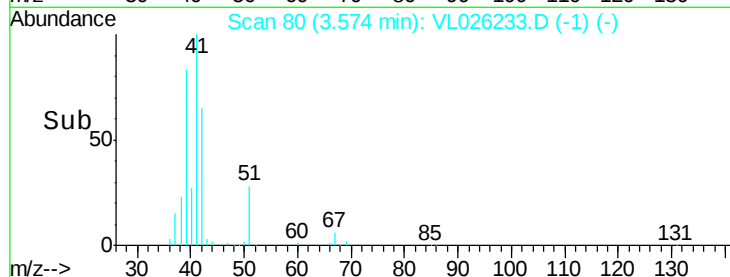
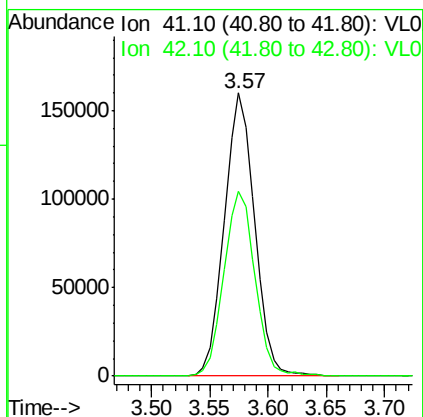
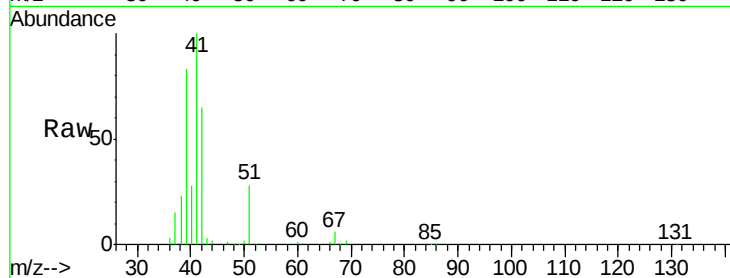
42 66.9 53.8 80.8

Manual Integrations

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#10

Heptane

Concen: 10.09 ppbv

RT: 9.32 min Scan# 1023

Delta R.T. -0.01 min

Lab File: VL026233.D

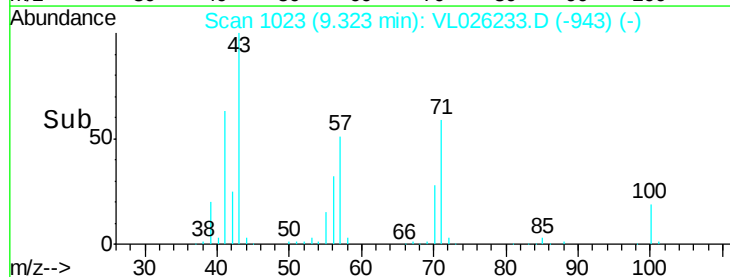
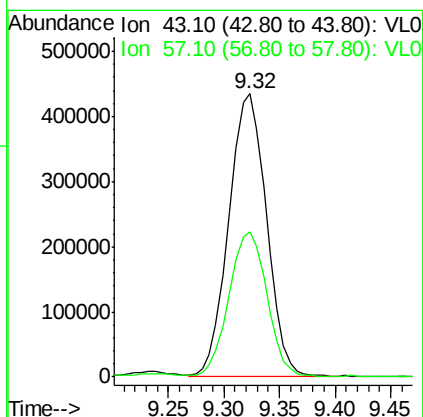
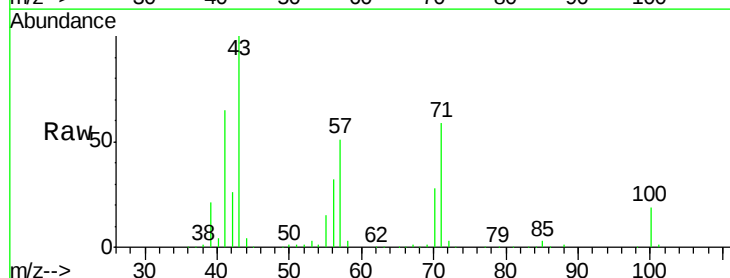
Acq: 21 Oct 2015 9:44

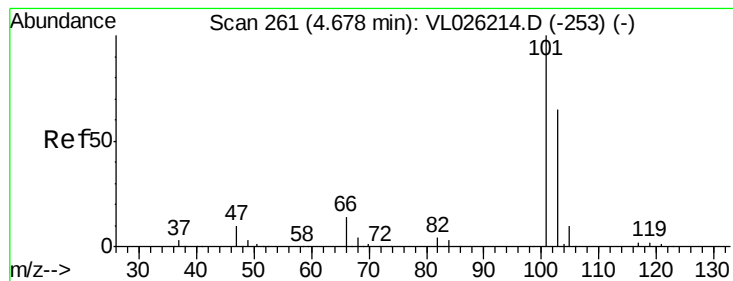
Tgt Ion: 43 Resp: 1016298

Ion Ratio Lower Upper

43 100

57 53.1 43.7 65.5





#11

Trichlorofluoromethane

Concen: 10.59 ppbv

RT: 4.67 min Scan# 260

Delta R.T. -0.01 min

Lab File: VL026233.D

Acq: 21 Oct 2015 9:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:101 Resp: 1092540

Ion Ratio Lower Upper

101 100

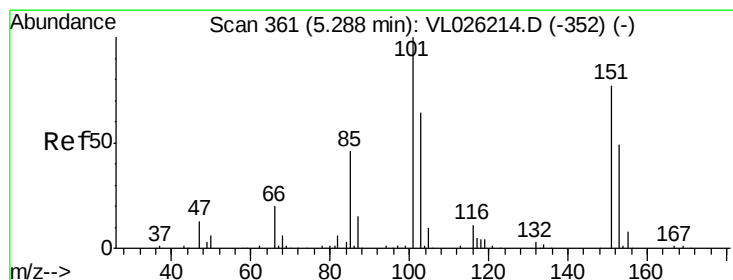
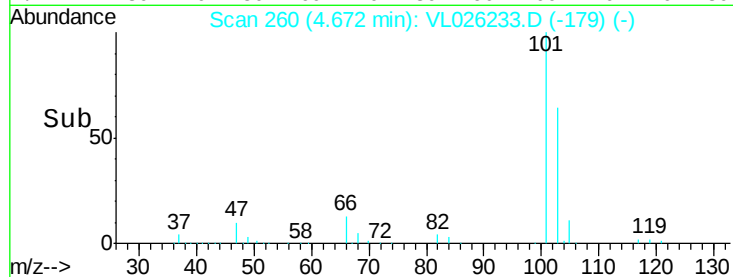
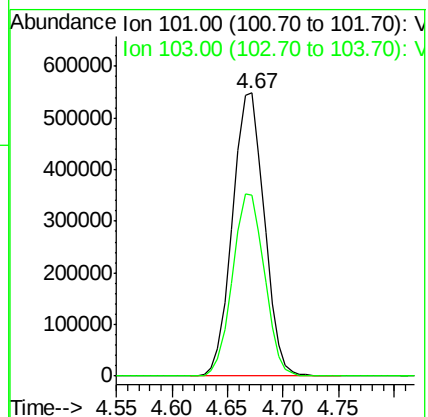
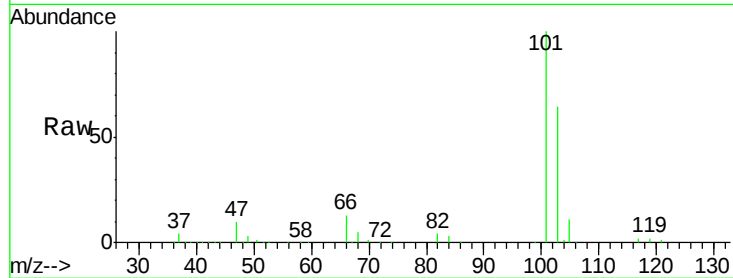
103 63.9 52.2 78.2

Manual Integrations

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 10.49 ppbv

RT: 5.28 min Scan# 359

Delta R.T. -0.01 min

Lab File: VL026233.D

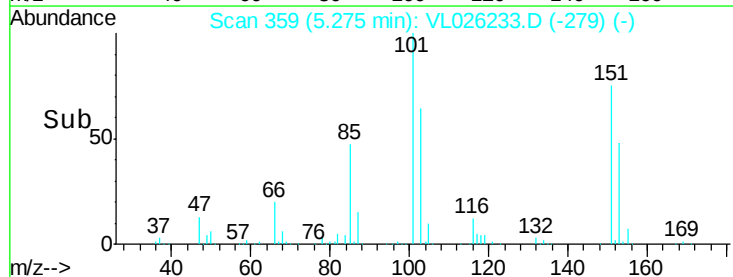
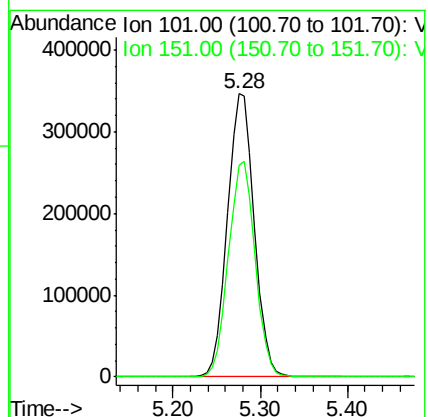
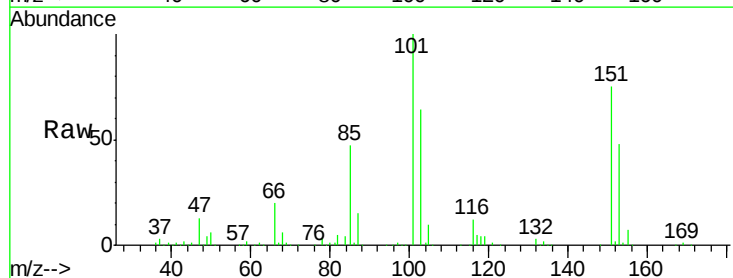
Acq: 21 Oct 2015 9:44

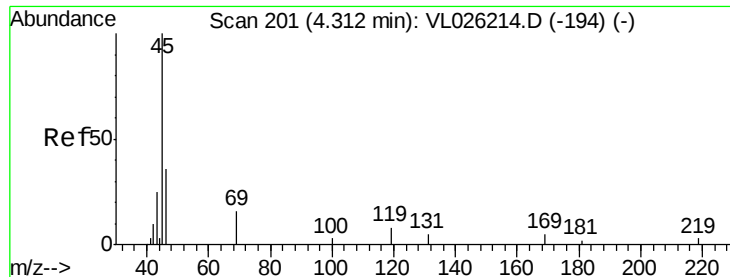
Tgt Ion:101 Resp: 738685

Ion Ratio Lower Upper

101 100

151 76.3 61.7 92.5





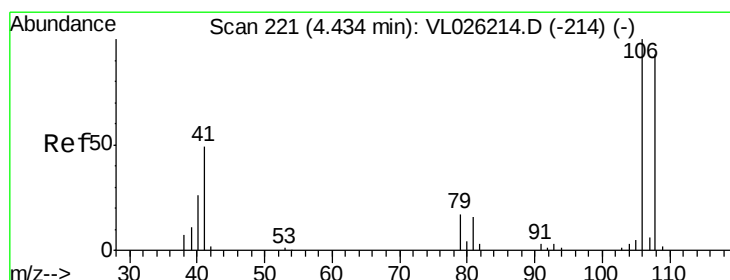
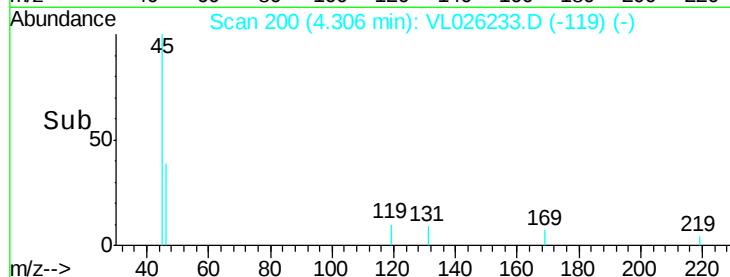
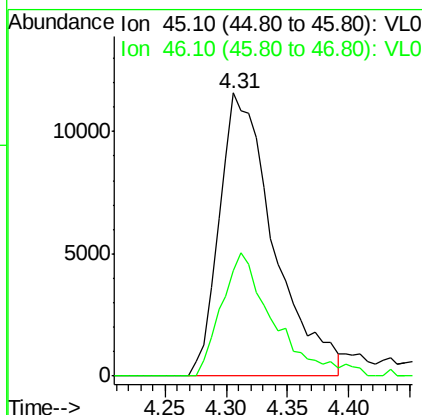
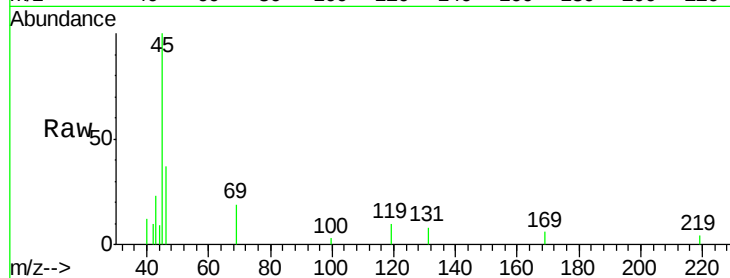
#13
Ethanol
Concen: 7.95 ppbv
RT: 4.31 min Scan# 200
Delta R.T. -0.01 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 45 Resp: 35888
Ion Ratio Lower Upper
45 100
46 41.8 15.8 63.0

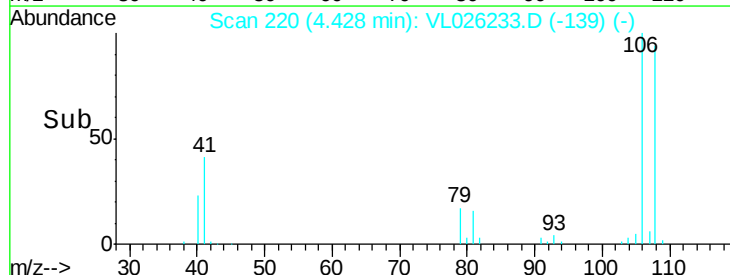
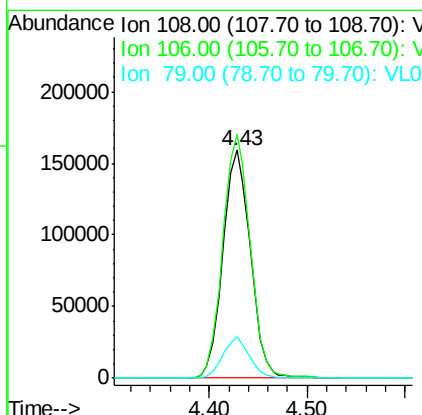
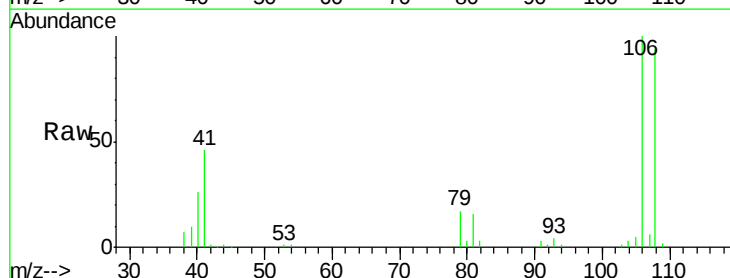
Manual Integrations
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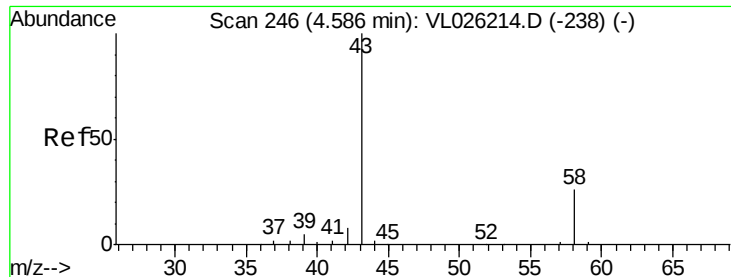
MMDadoda
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#14
Bromoethene
Concen: 10.45 ppbv
RT: 4.43 min Scan# 220
Delta R.T. -0.01 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Tgt Ion: 108 Resp: 310514
Ion Ratio Lower Upper
108 100
106 106.8 84.7 127.1
79 17.4 14.0 21.0





#15

Acetone

Concen: 8.70 ppbv

RT: 4.58 min Scan# 245

Delta R.T. -0.01 min

Lab File: VL026233.D

Acq: 21 Oct 2015 9:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 649814

Ion Ratio Lower Upper

43 100

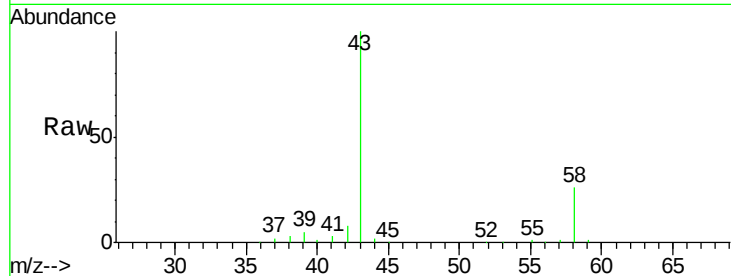
58 27.5 21.8 32.6

Manual Integrations

APPROVED

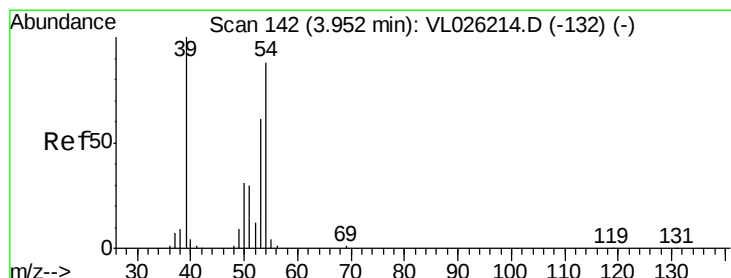
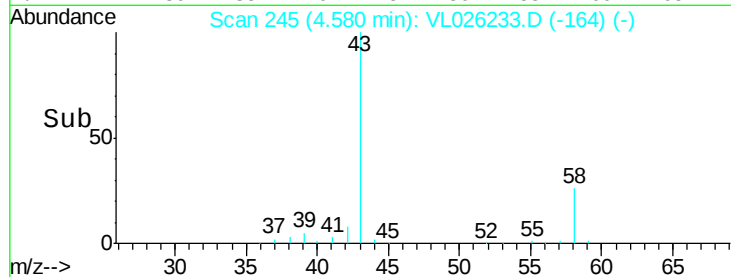
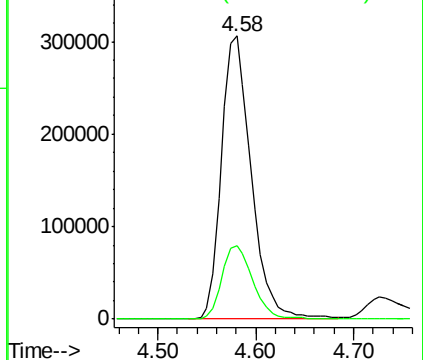
MMDadoda

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 10.12 ppbv

RT: 3.95 min Scan# 141

Delta R.T. -0.01 min

Lab File: VL026233.D

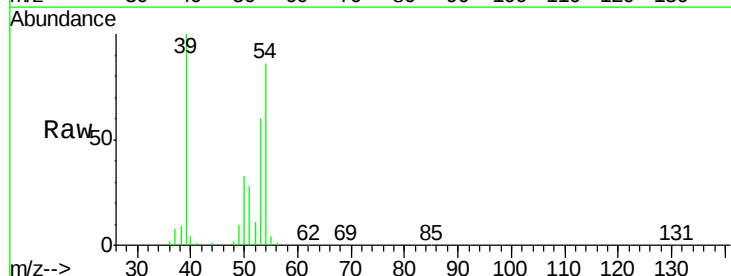
Acq: 21 Oct 2015 9:44

Tgt Ion: 39 Resp: 337266

Ion Ratio Lower Upper

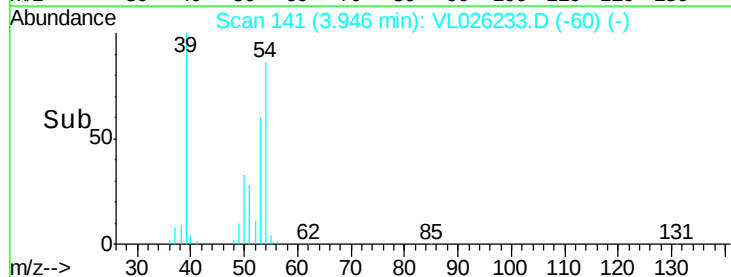
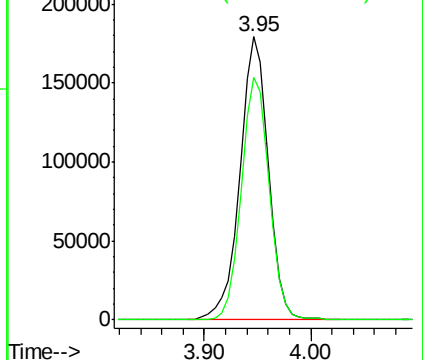
39 100

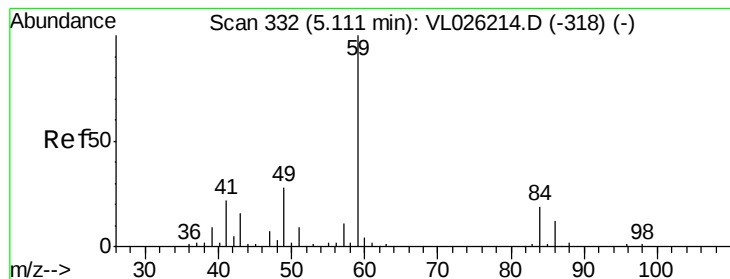
54 83.8 67.3 100.9



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 11.94 ppbv

RT: 5.10 min Scan# 330

Delta R.T. -0.01 min

Lab File: VL026233.D

Acq: 21 Oct 2015 9:44

Tot Ion: 59 Resp: 609621

Ion Ratio Lower Upper

59 100

57 10.8 8.5 12.7

Instrument :

MSVOA_L

ClientSampleId :

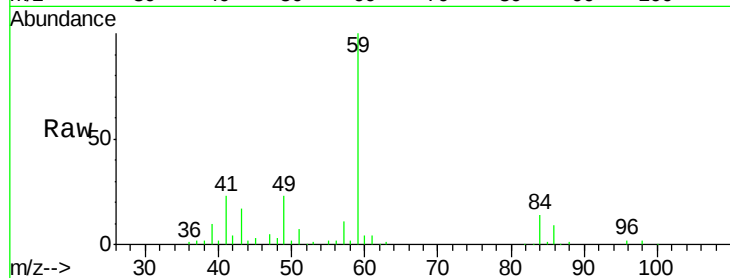
VSTDCCC010

Manual Integrations

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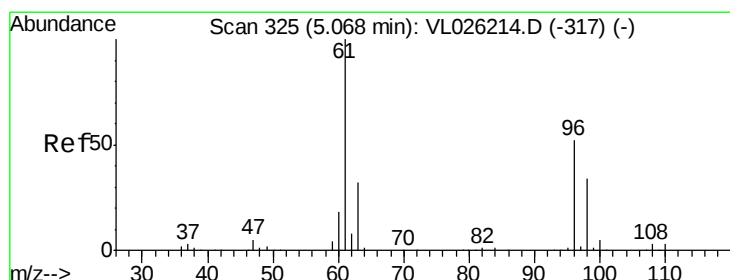
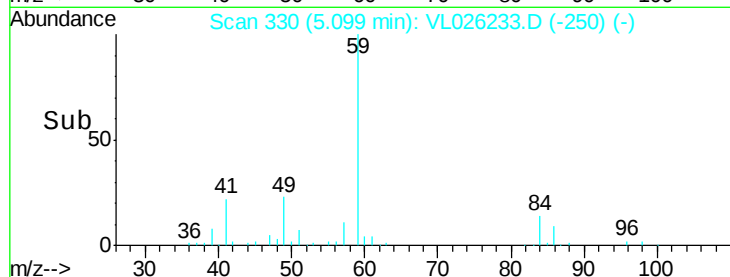
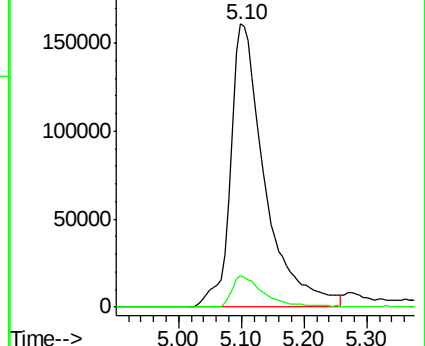
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Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 10.71 ppbv

RT: 5.06 min Scan# 323

Delta R.T. -0.01 min

Lab File: VL026233.D

Acq: 21 Oct 2015 9:44

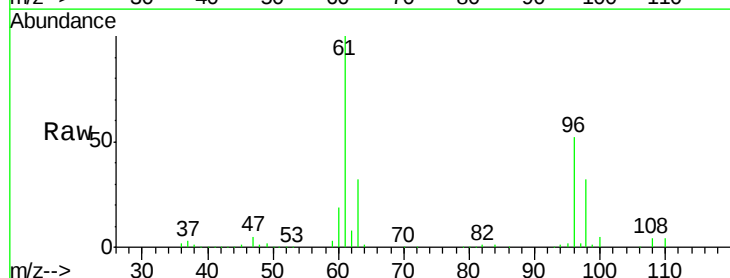
Tgt Ion: 96 Resp: 340486

Ion Ratio Lower Upper

96 100

61 192.8 153.7 230.5

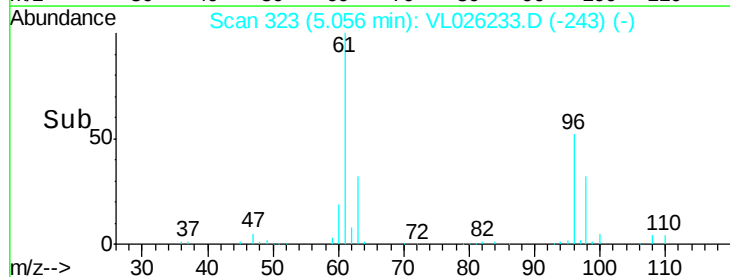
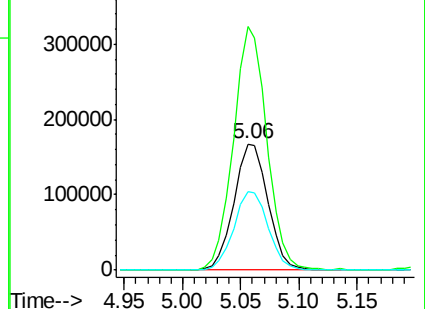
98 61.8 51.6 77.4

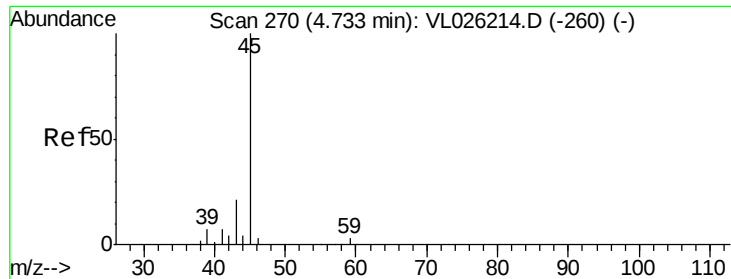


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

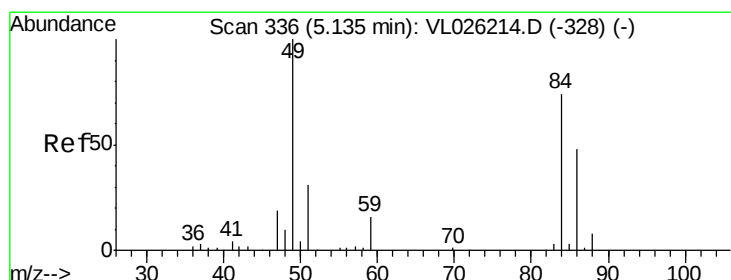
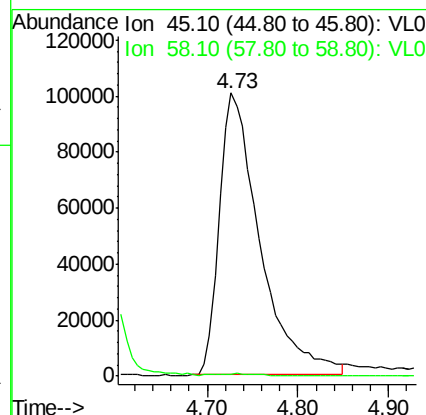
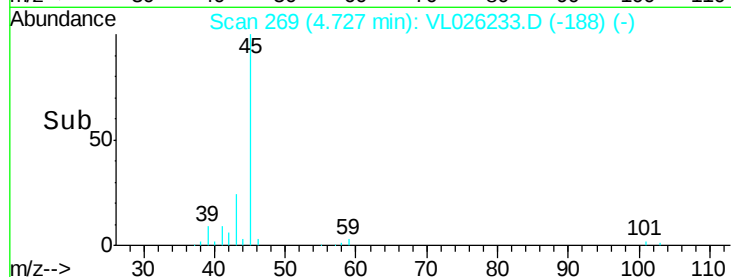
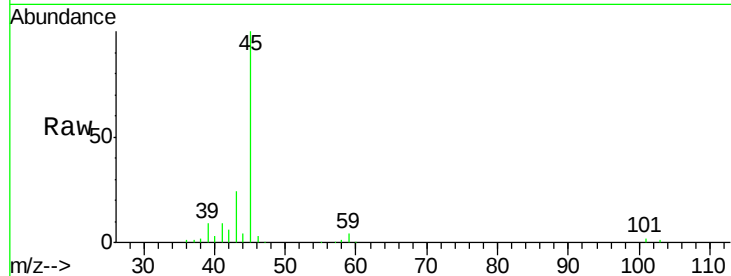
Isopropyl Alcohol
 Concen: 10.74 ppbv
 RT: 4.73 min Scan# 269
 Delta R.T. -0.01 min
 Lab File: VL026233.D
 Acq: 21 Oct 2015 9:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 45 Resp: 313766
 Ion Ratio Lower Upper
 45 100
 58 56.9 40.3 60.5

Manual Integrations
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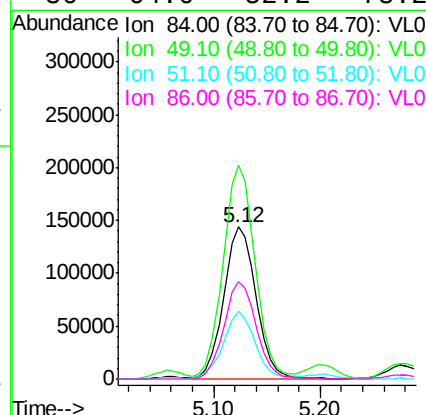
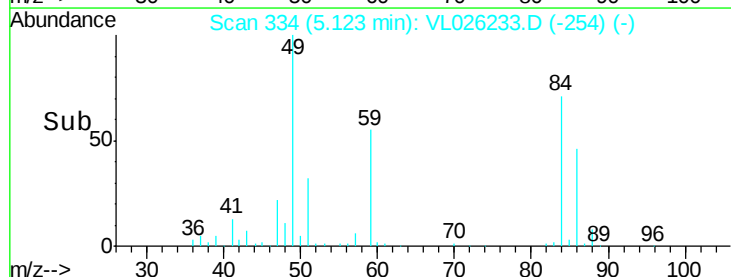
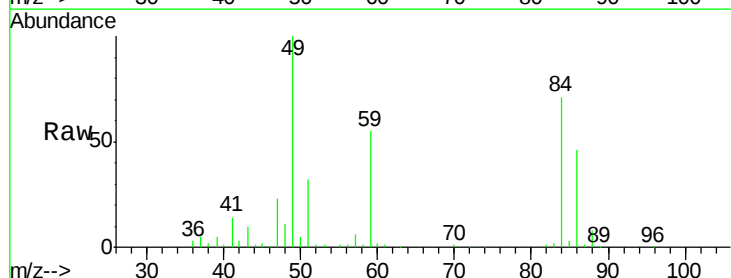
MMDadoda
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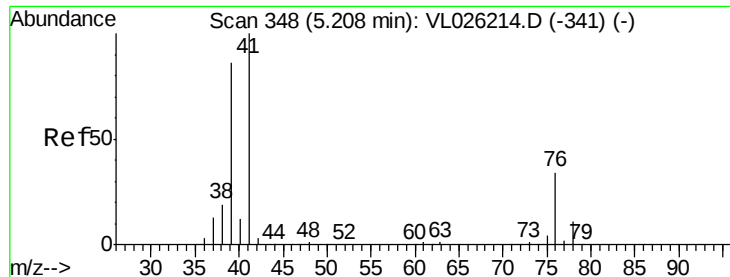


#20

Methylene Chloride
 Concen: 10.24 ppbv
 RT: 5.12 min Scan# 334
 Delta R.T. -0.01 min
 Lab File: VL026233.D
 Acq: 21 Oct 2015 9:44

Tgt Ion: 84 Resp: 305338
 Ion Ratio Lower Upper
 84 100
 49 139.1 108.7 163.1
 51 44.1 33.7 50.5
 86 64.0 52.2 78.2





#21

Allvl Chloride

Concen: 10.66 ppbv

RT: 5.20 min Scan# 347

Delta R.T. -0.01 min

Lab File: VL026233.D

Acq: 21 Oct 2015 9:44

Instrument :

MSVOA_L

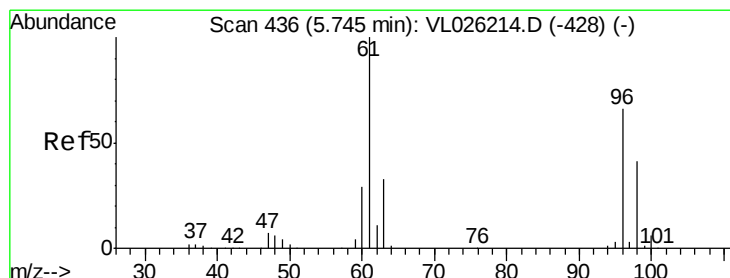
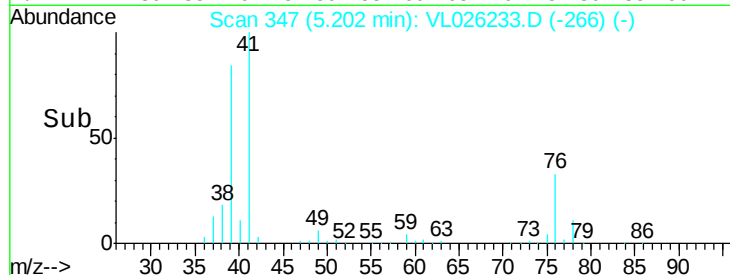
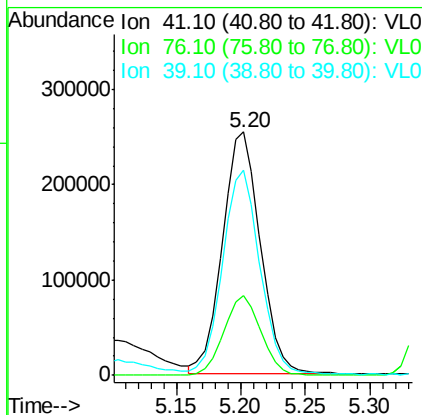
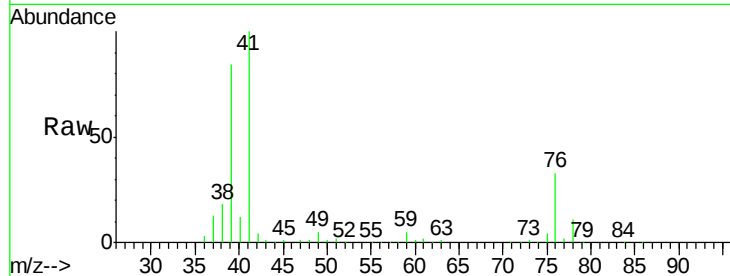
ClientSampleId :

VSTDCCC010

Tot Ion:	41	Resp:	519800
Ion	Ratio	Lower	Upper
41	100		
76	32.4	26.6	39.8
39	85.2	67.4	101.2

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 10.43 ppbv

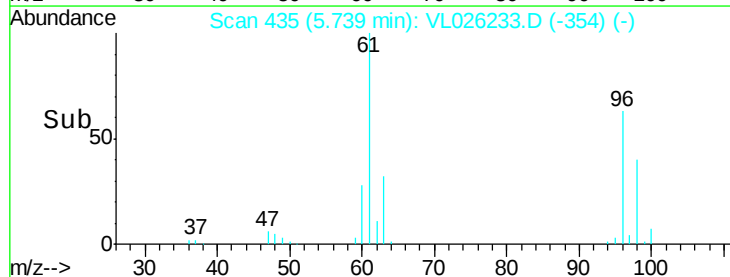
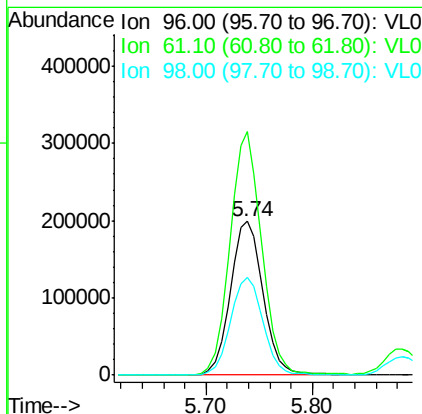
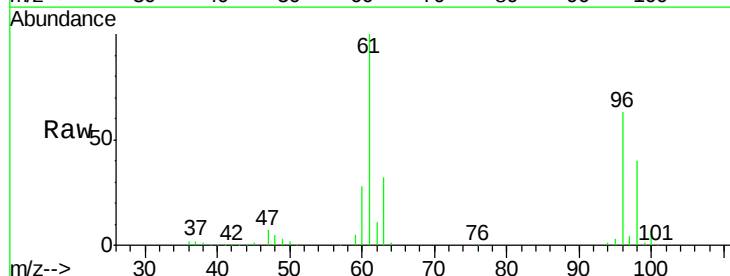
RT: 5.74 min Scan# 435

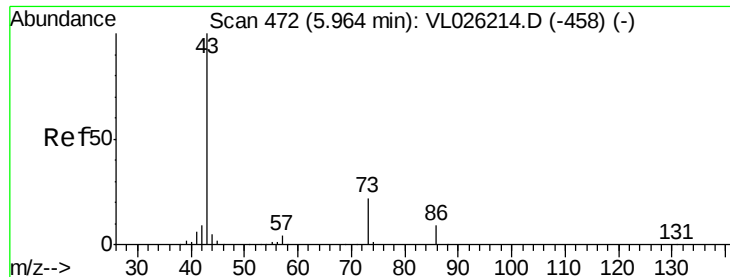
Delta R.T. -0.01 min

Lab File: VL026233.D

Acq: 21 Oct 2015 9:44

Tgt Ion:	96	Resp:	427687
Ion	Ratio	Lower	Upper
96	100		
61	158.5	121.5	182.3
98	63.9	49.7	74.5





#23

Vinyl Acetate

Concen: 10.08 ppbv

RT: 5.96 min Scan# 471

Delta R.T. -0.01 min

Lab File: VL026233.D

Acq: 21 Oct 2015 9:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1387942

Ion Ratio Lower Upper

43 100

86 9.4 7.0 10.6

42 9.8 7.5 11.3

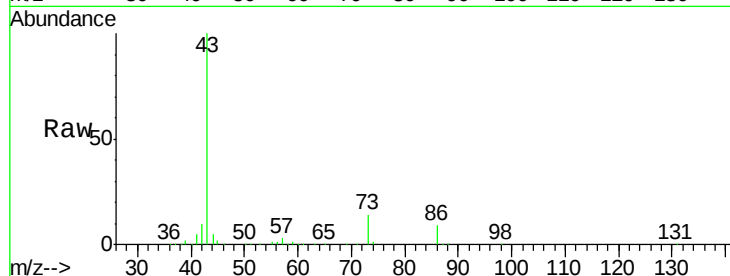
44 4.7 3.6 5.4

Manual Integrations

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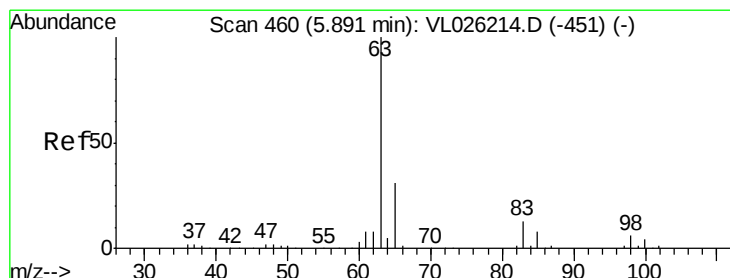
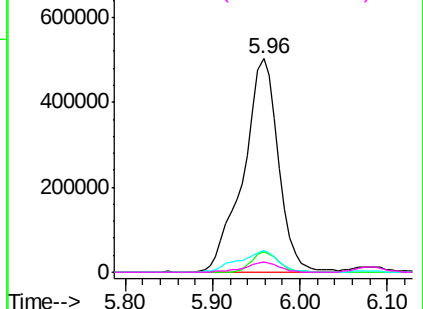
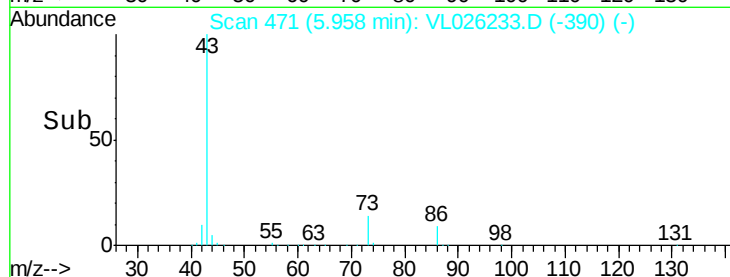


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.23 ppbv

RT: 5.88 min Scan# 459

Delta R.T. -0.01 min

Lab File: VL026233.D

Acq: 21 Oct 2015 9:44

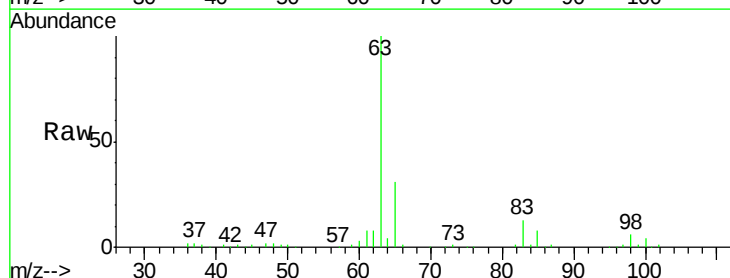
Tgt Ion: 63 Resp: 888448

Ion Ratio Lower Upper

63 100

98 5.9 2.9 8.8

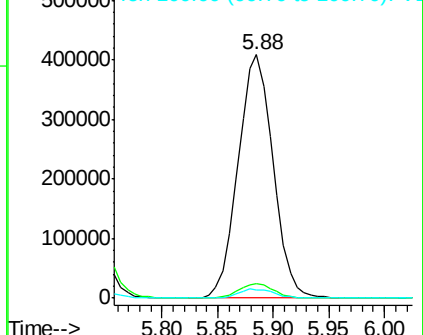
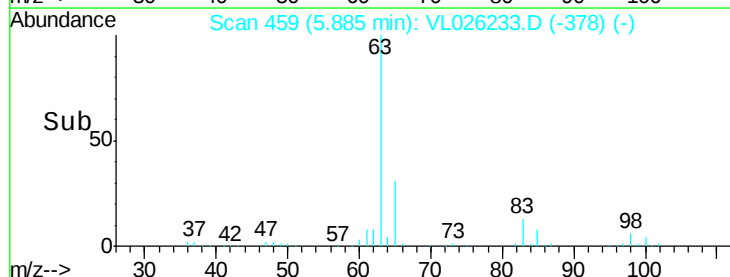
100 3.6 1.8 5.5

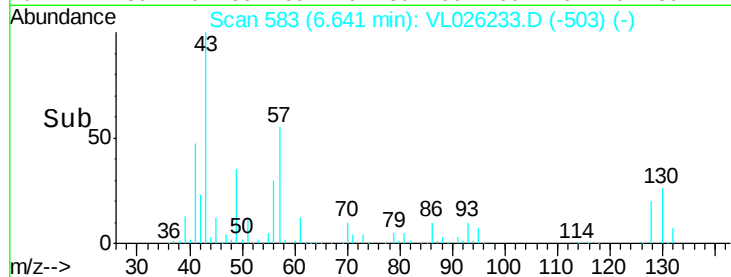
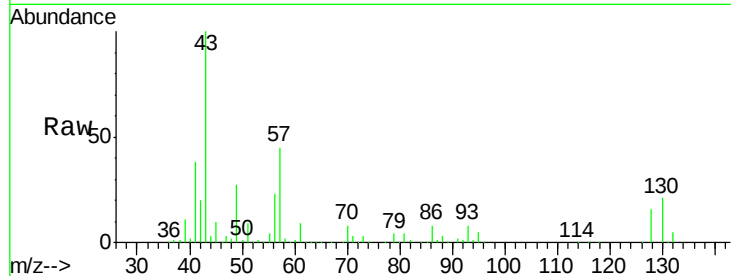
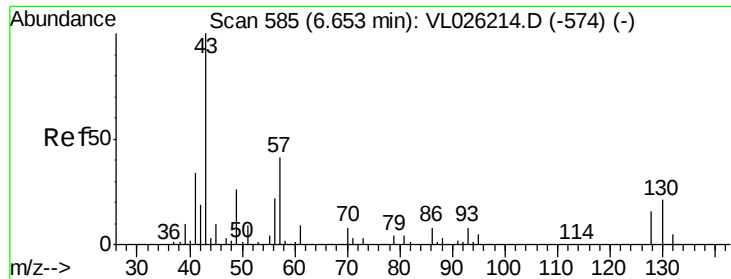


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





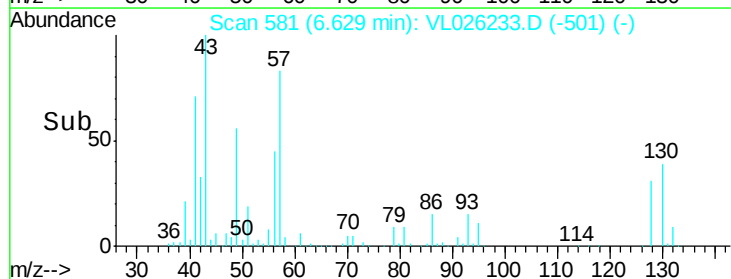
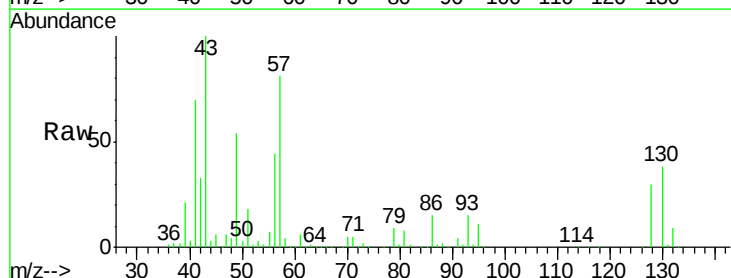
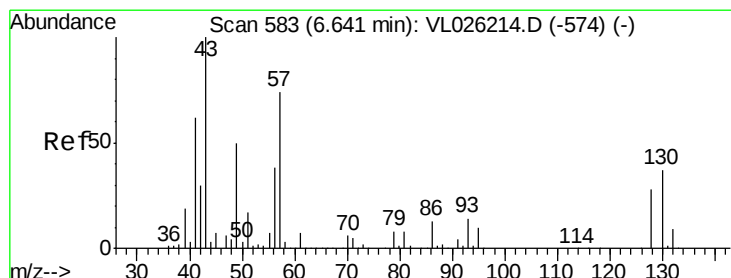
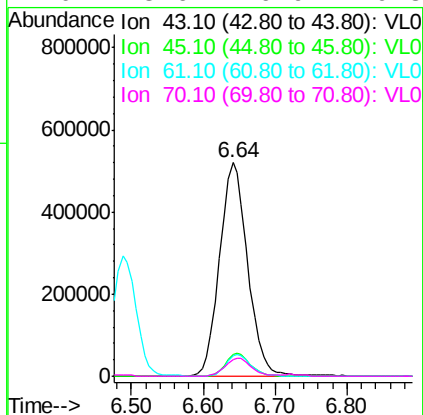
#25
Ethyl Acetate
Concen: 10.01 ppbv
RT: 6.64 min Scan# 583
Delta R.T. -0.01 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.6	7.7	11.5
61	9.3	7.5	11.3
70	8.6	6.9	10.3

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

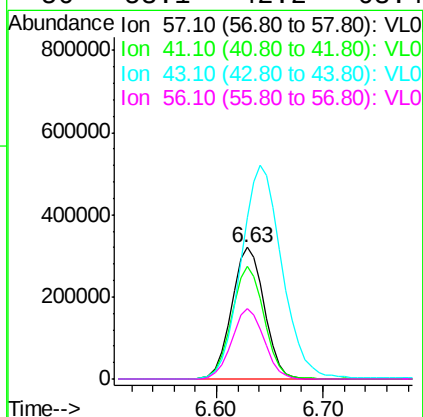
Manual Integrations
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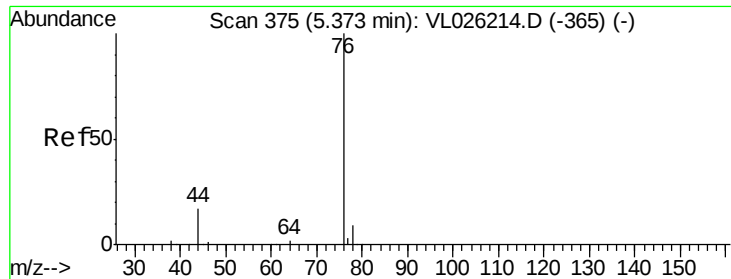
MMDadoda
10/22/2015 4:35:39 PM



#26
Hexane
Concen: 9.82 ppbv
RT: 6.63 min Scan# 581
Delta R.T. -0.01 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Tgt Ion	Ratio	Lower	Upper
57	100		
41	86.0	68.1	102.1
43	205.9	163.4	245.2
56	53.1	42.2	63.4





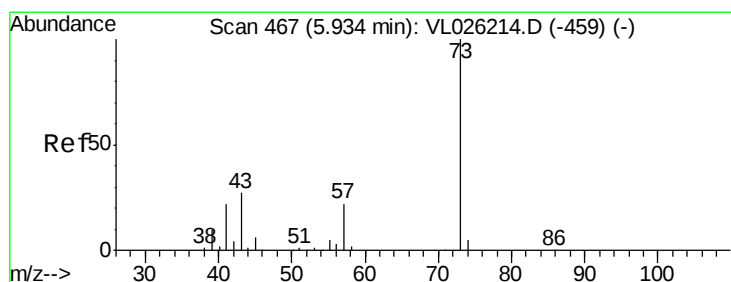
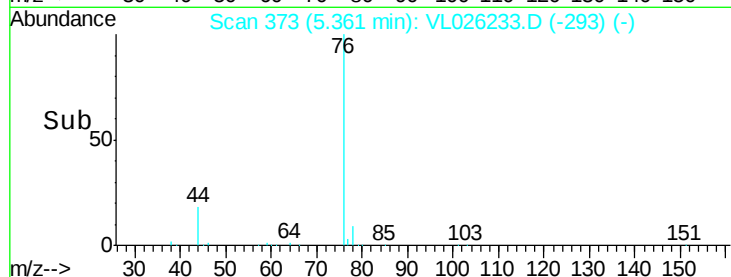
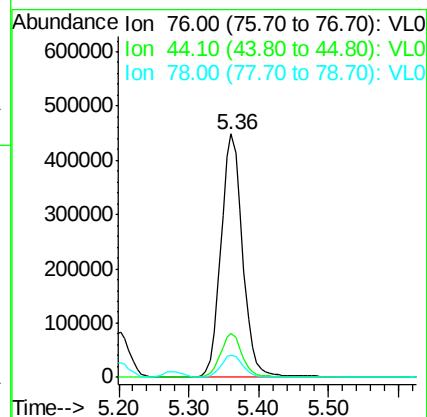
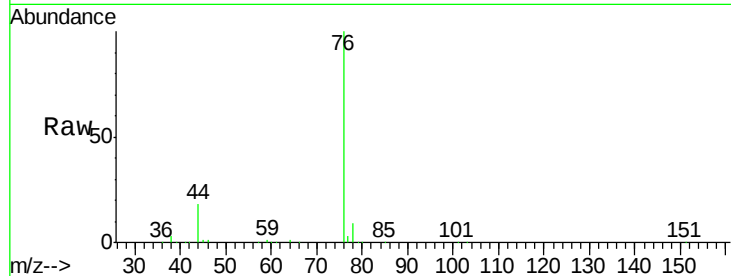
#27
Carbon Disulfide
Concen: 10.80 ppbv
RT: 5.36 min Scan# 373
Delta R.T. -0.01 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Instrument :
MSVOA_L
ClientSampled :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
76	100		
44	17.6	14.0	21.0
78	9.2	7.4	11.2

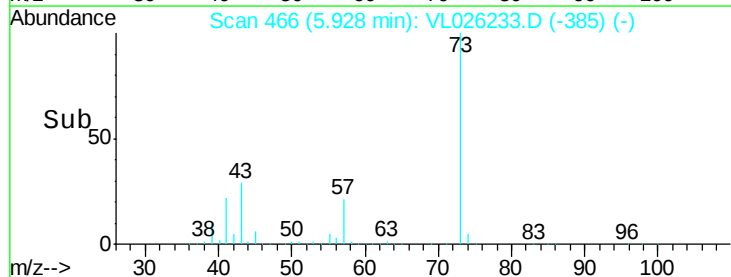
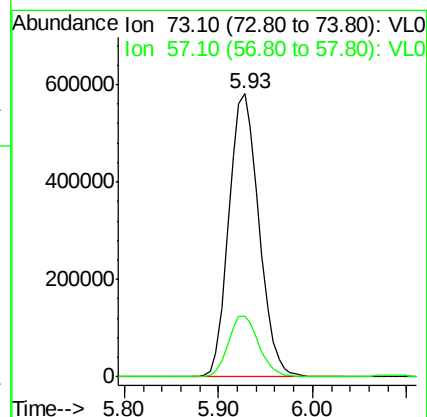
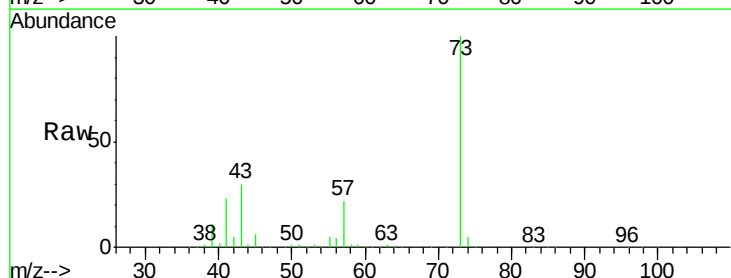
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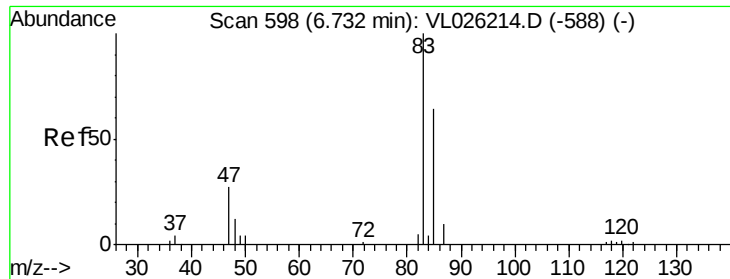
MMDadoda
10/22/2015 4:35:39 PM



#28
Methyl tert-Butyl Ether
Concen: 10.12 ppbv
RT: 5.93 min Scan# 466
Delta R.T. -0.01 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Tgt Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.4	26.0





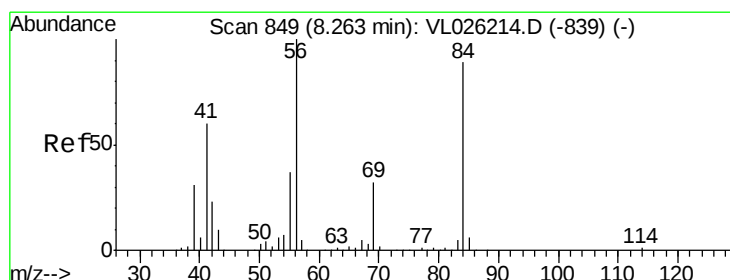
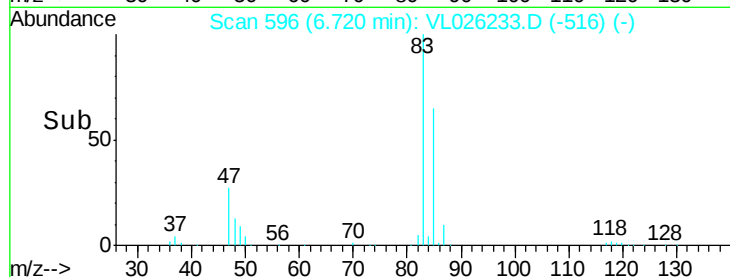
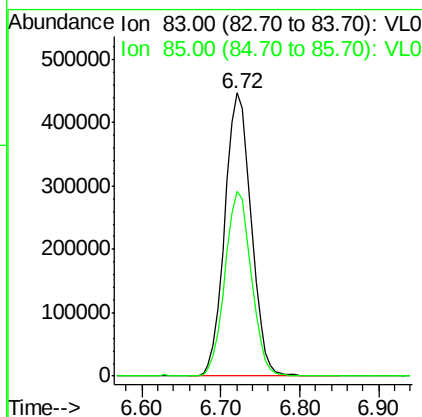
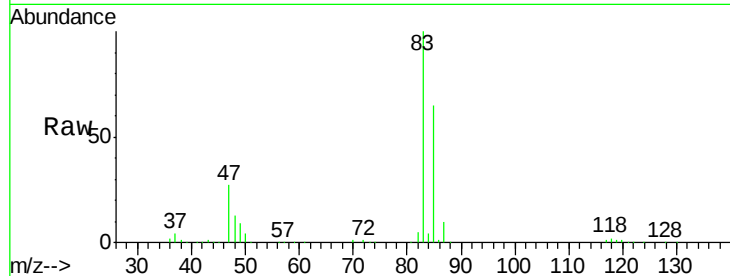
#29
Chloroform
Concen: 10.28 ppbv
RT: 6.72 min Scan# 596
Delta R.T. -0.01 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 1044456
Ion Ratio Lower Upper
83 100
85 65.4 51.5 77.3

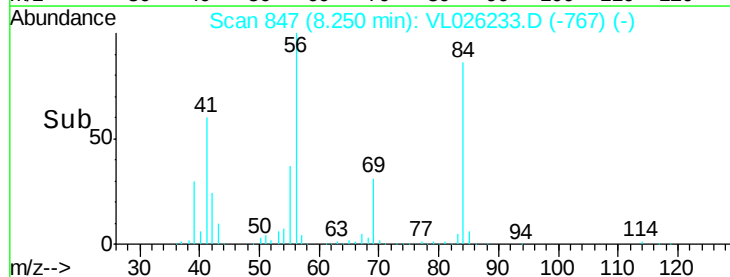
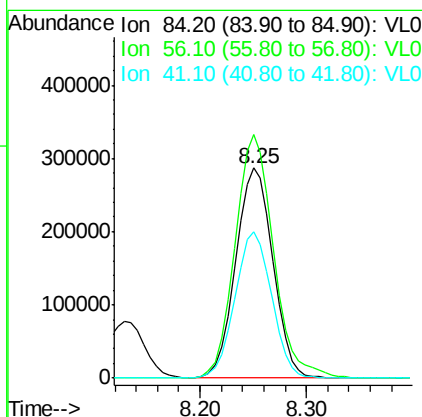
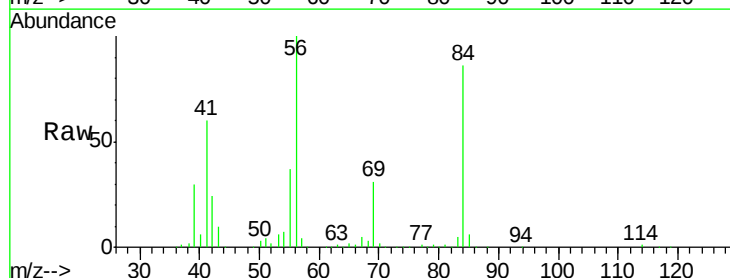
Manual Integrations
APPROVED

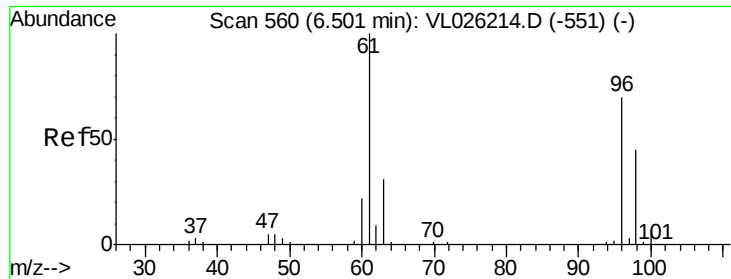
MMDadoda
10/22/2015 4:35:39 PM



#30
Cyclohexane
Concen: 10.02 ppbv
RT: 8.25 min Scan# 847
Delta R.T. -0.01 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Tgt Ion: 84 Resp: 701684
Ion Ratio Lower Upper
84 100
56 120.6 95.9 143.9
41 69.6 54.8 82.2





#31

cis-1,2-Dichloroethene

Concen: 10.39 ppbv

RT: 6.49 min Scan# 558

Delta R.T. -0.01 min

Lab File: VL026233.D

Acq: 21 Oct 2015 9:44

Instrument :

MSVOA_L

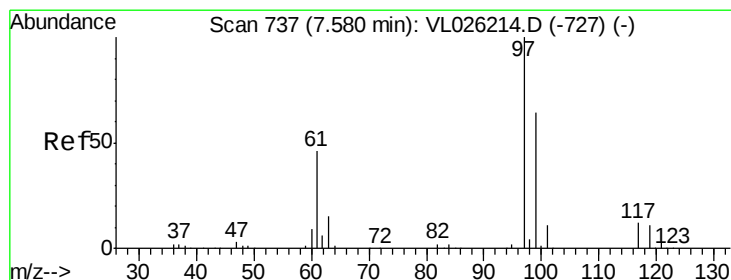
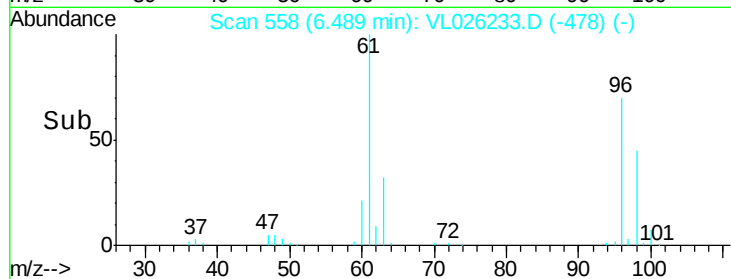
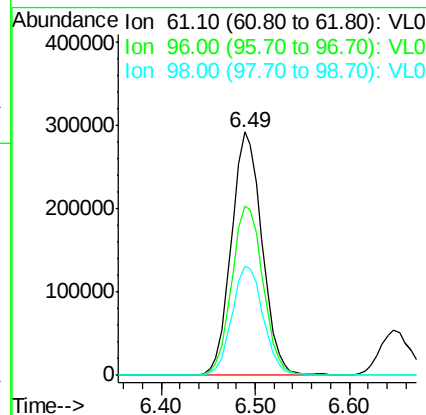
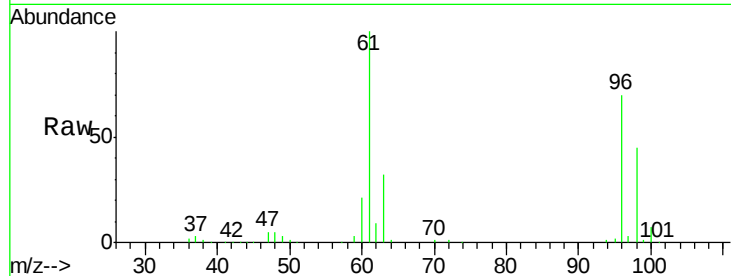
ClientSampleId :

VSTDCCC010

Tot Ion:	61	Resp:	660277
Ion Ratio		Lower	Upper
61	100		
96	69.6	56.0	84.0
98	45.0	36.1	54.1

Manual Integrations
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10/22/2015 4:35:39 PM



#32

1,1,1-Trichloroethane

Concen: 9.91 ppbv

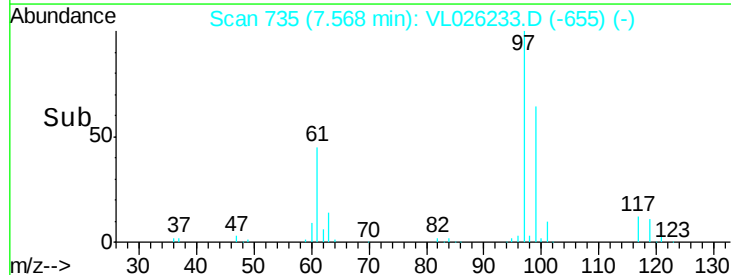
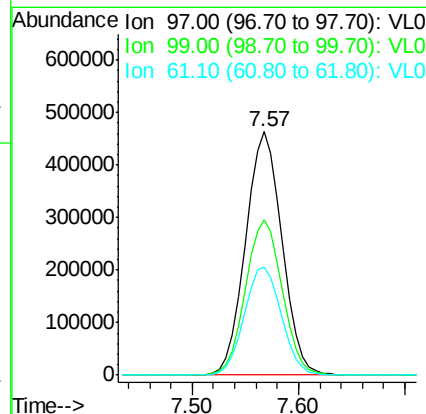
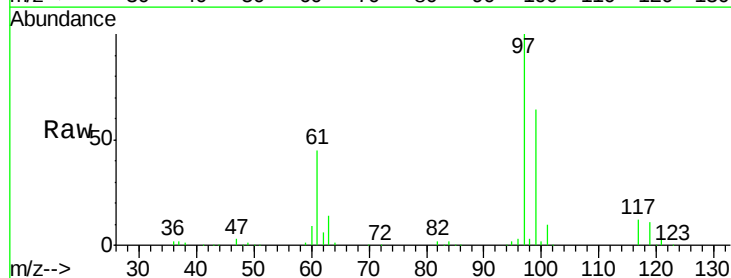
RT: 7.57 min Scan# 735

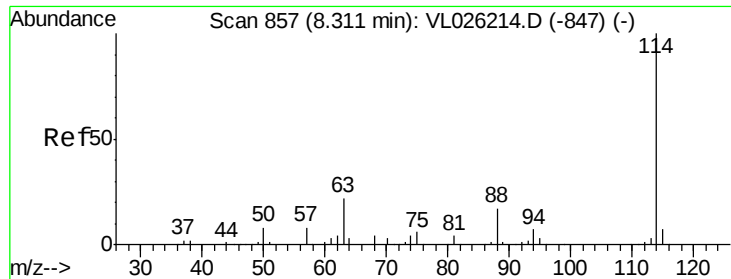
Delta R.T. -0.01 min

Lab File: VL026233.D

Acq: 21 Oct 2015 9:44

Tgt Ion:	97	Resp:	1116135
Ion Ratio		Lower	Upper
97	100		
99	64.2	51.4	77.0
61	45.4	36.2	54.4





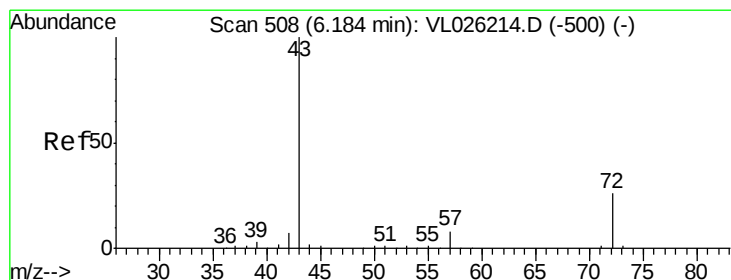
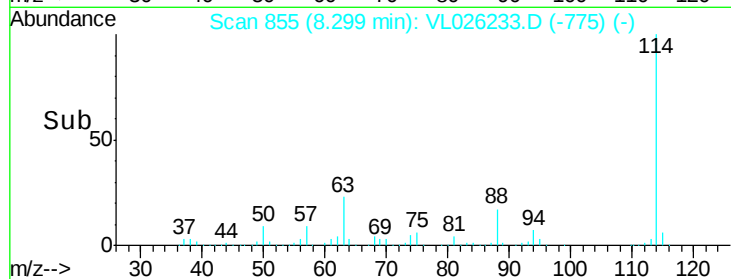
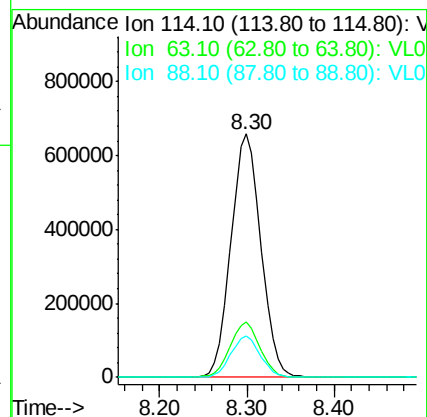
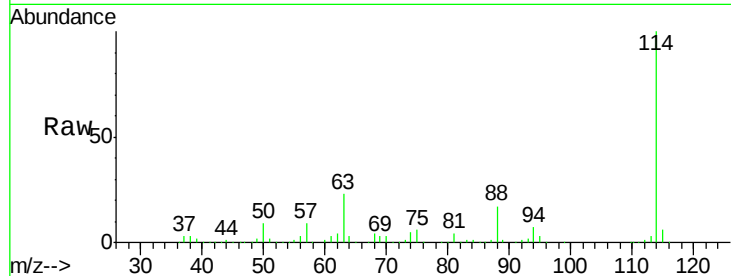
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.30 min Scan# 855
 Delta R.T. -0.01 min
 Lab File: VL026233.D
 Acq: 21 Oct 2015 9:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:114 Resp: 1571095
 Ion Ratio Lower Upper
 114 100
 63 22.9 18.2 27.4
 88 16.8 13.5 20.3

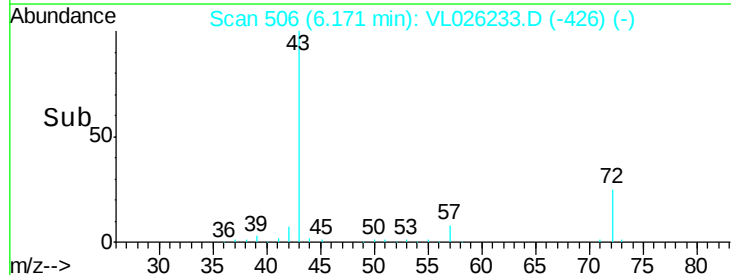
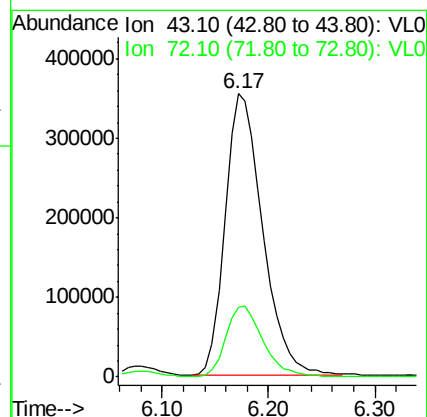
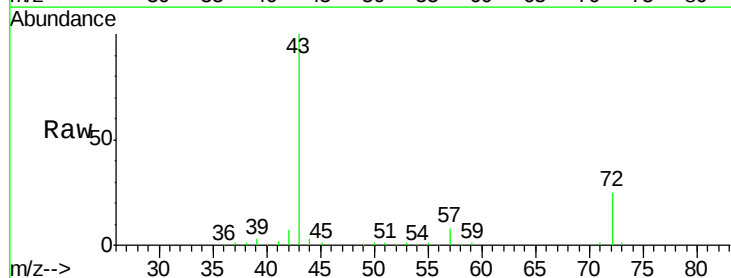
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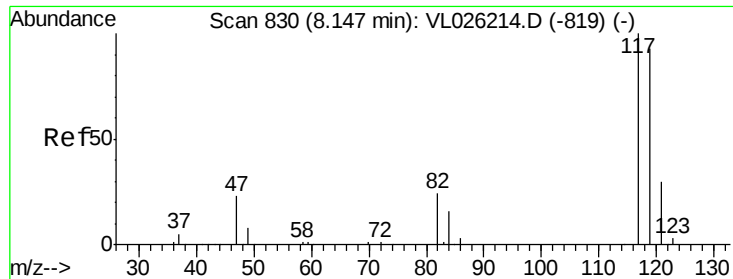
MMDadoda
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#34
 2-Butanone
 Concen: 9.79 ppbv
 RT: 6.17 min Scan# 506
 Delta R.T. -0.01 min
 Lab File: VL026233.D
 Acq: 21 Oct 2015 9:44

Tgt Ion: 43 Resp: 868918
 Ion Ratio Lower Upper
 43 100
 72 25.5 20.1 30.1





#35

Carbon Tetrachloride

Concen: 9.70 ppbv

RT: 8.13 min Scan# 827

Delta R.T. -0.02 min

Lab File: VL026233.D

Acq: 21 Oct 2015 9:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 1160444

Ion Ratio Lower Upper

117 100

119 95.9 74.6 111.8

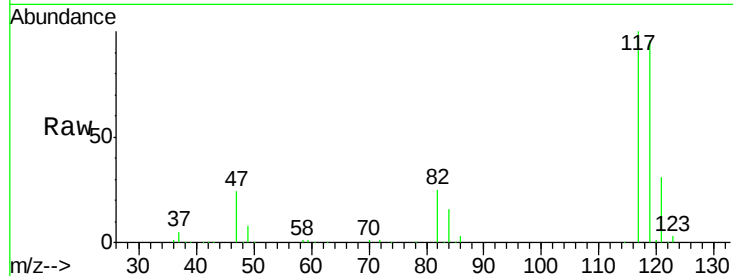
121 30.8 24.2 36.2

Manual Integrations

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MMDadoda

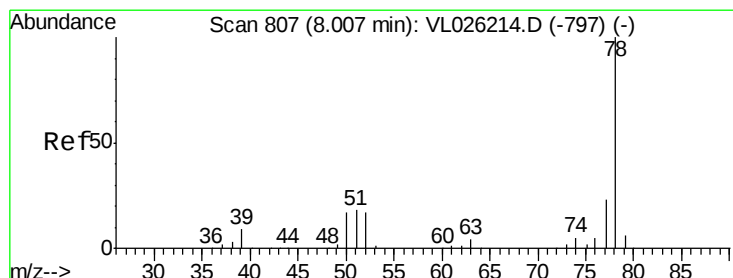
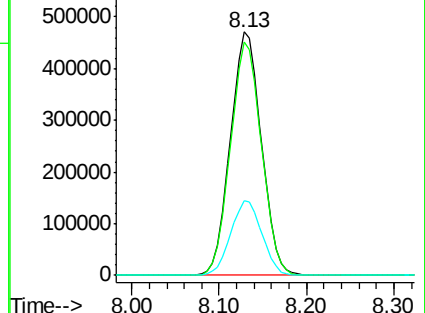
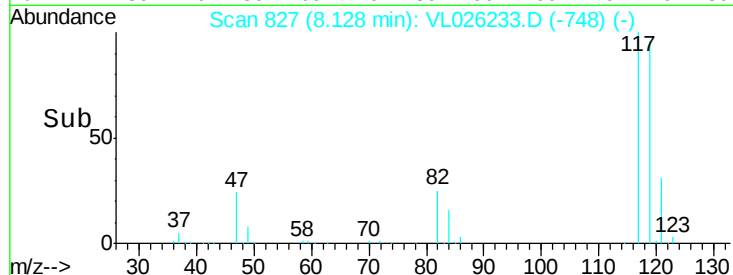
10/22/2015 4:35:39 PM



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: 9.80 ppbv

RT: 7.99 min Scan# 805

Delta R.T. -0.01 min

Lab File: VL026233.D

Acq: 21 Oct 2015 9:44

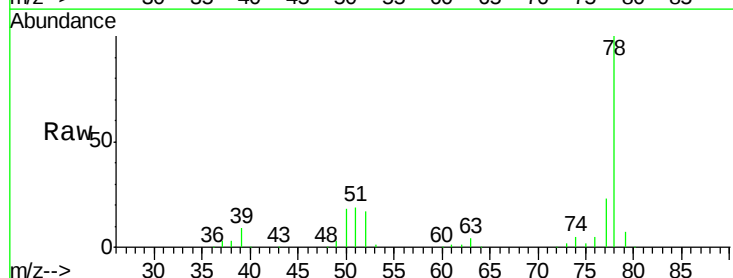
Tgt Ion: 78 Resp: 1567876

Ion Ratio Lower Upper

78 100

77 23.1 18.1 27.1

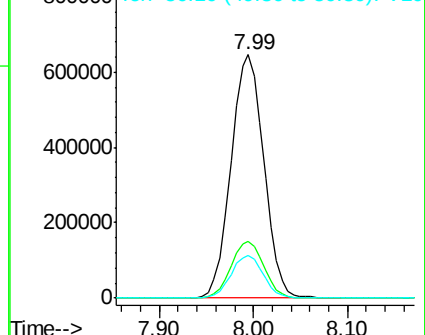
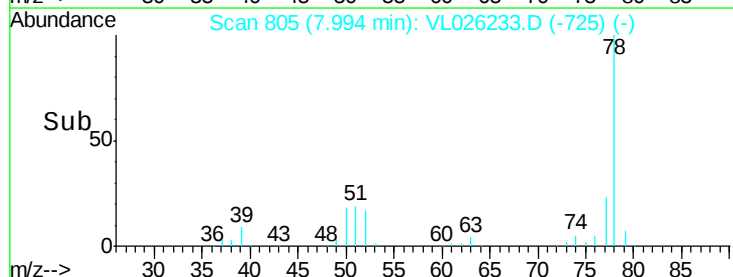
50 17.7 13.8 20.8

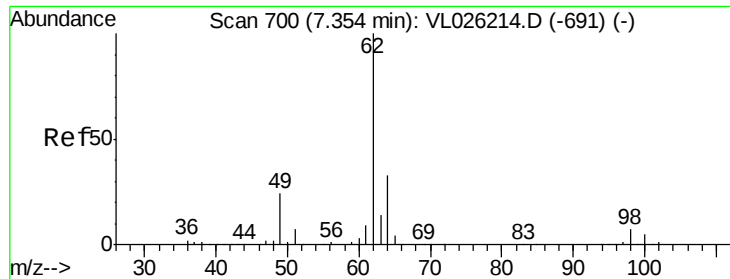


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





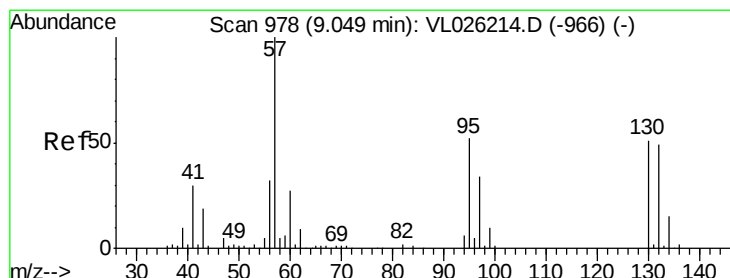
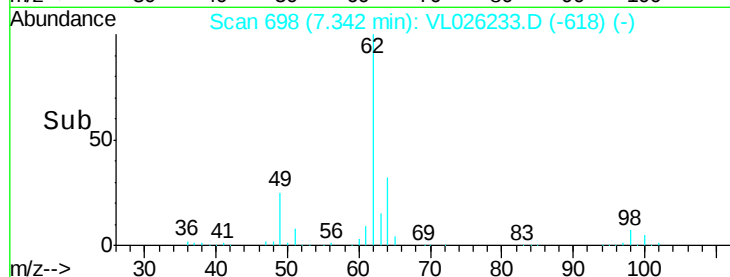
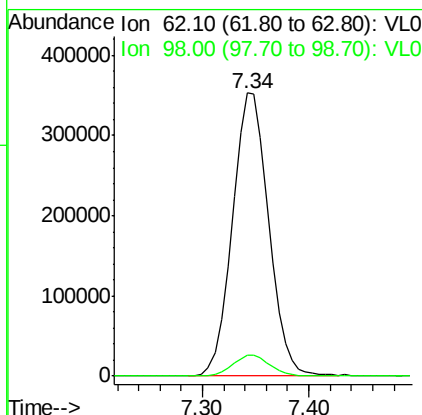
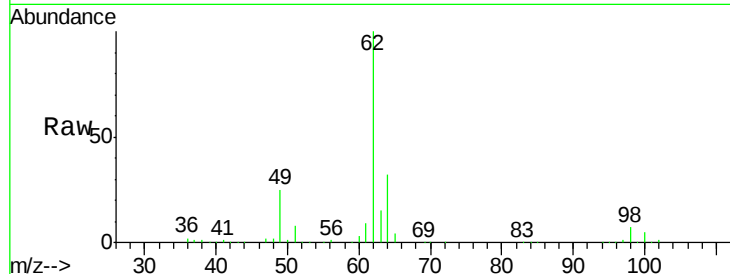
#37
 1,2-Dichloroethane
 Concen: 10.26 ppbv
 RT: 7.34 min Scan# 698
 Delta R.T. -0.01 min
 Lab File: VL026233.D
 Acq: 21 Oct 2015 9:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
62	100		
98	7.6	6.1	9.1

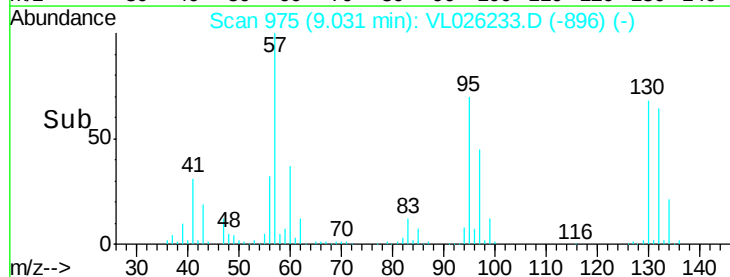
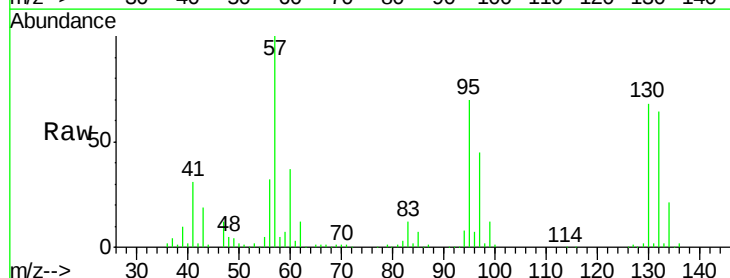
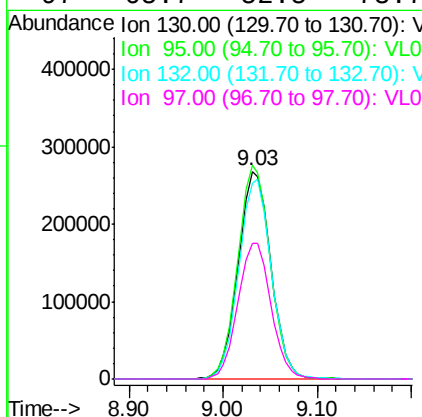
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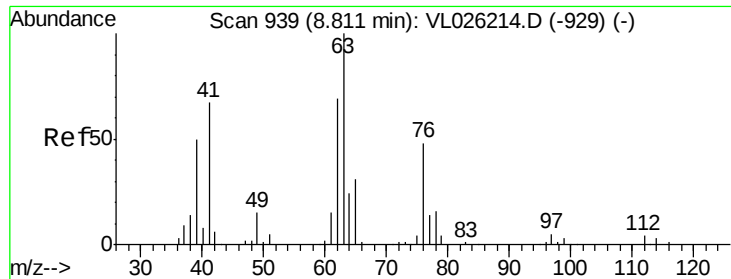
MMDadoda
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#38
 Trichloroethene
 Concen: 8.43 ppbv
 RT: 9.03 min Scan# 975
 Delta R.T. -0.02 min
 Lab File: VL026233.D
 Acq: 21 Oct 2015 9:44

Tgt Ion	Ratio	Lower	Upper
130	100		
95	103.0	81.0	121.4
132	94.2	76.5	114.7
97	65.7	52.5	78.7





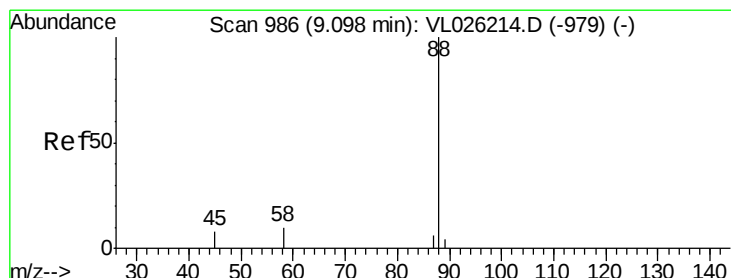
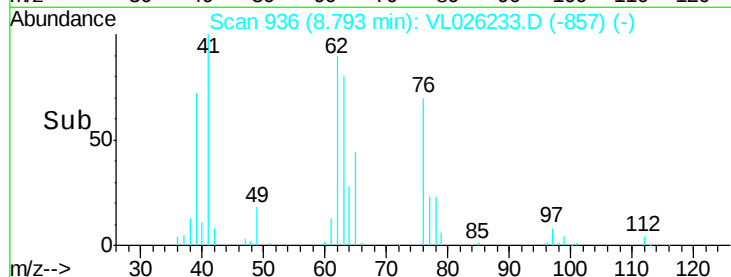
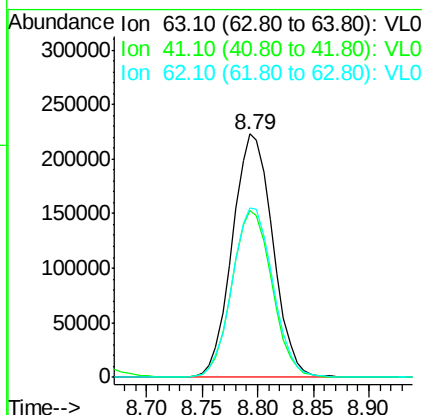
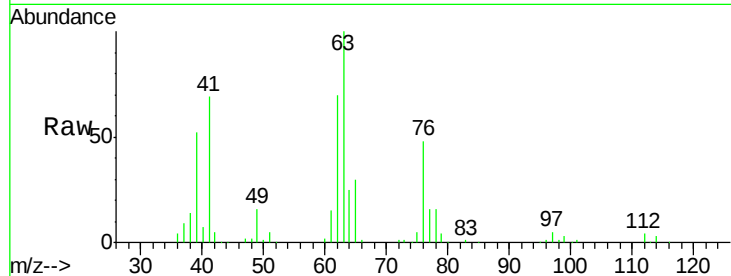
#39
 1,2-Dichloropropane
 Concen: 10.02 ppbv
 RT: 8.79 min Scan# 936
 Delta R.T. -0.02 min
 Lab File: VL026233.D
 Acq: 21 Oct 2015 9:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	68.3	53.2	79.8
62	69.5	55.4	83.2

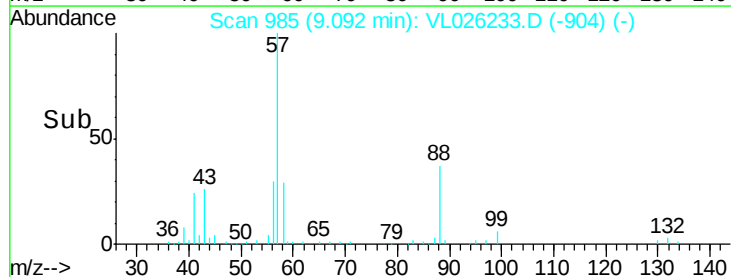
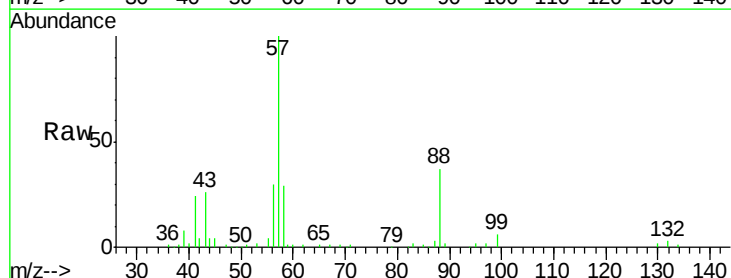
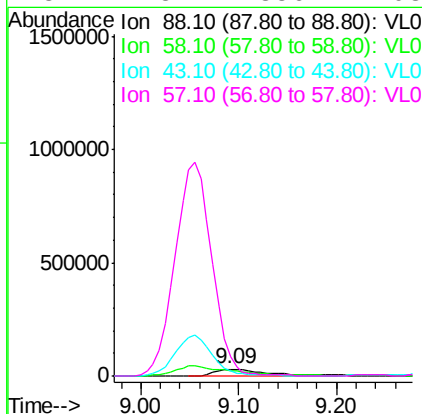
Manual Integrations
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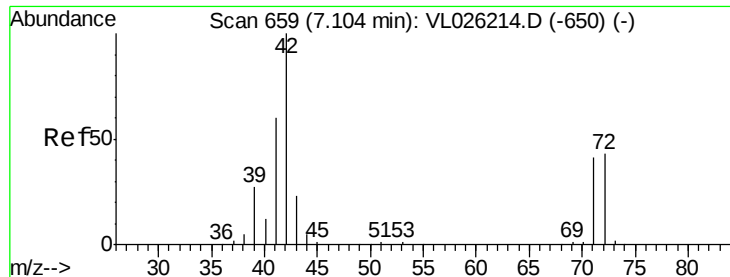
MMDadoda
 10/22/2015 4:35:39 PM



#40
 1,4-Dioxane
 Concen: 10.74 ppbv
 RT: 9.09 min Scan# 985
 Delta R.T. -0.01 min
 Lab File: VL026233.D
 Acq: 21 Oct 2015 9:44

Tgt Ion	Ratio	Lower	Upper
88	100		
58	167.2	115.4	173.2
43	428.9	272.6	409.0#
57	2175.7	1356.1	2034.1#





#41

Tetrahydrofuran

Concen: 10.05 ppbv

RT: 7.09 min Scan# 657

Delta R.T. -0.01 min

Lab File: VL026233.D

Acq: 21 Oct 2015 9:44

Instrument :

MSVOA_L

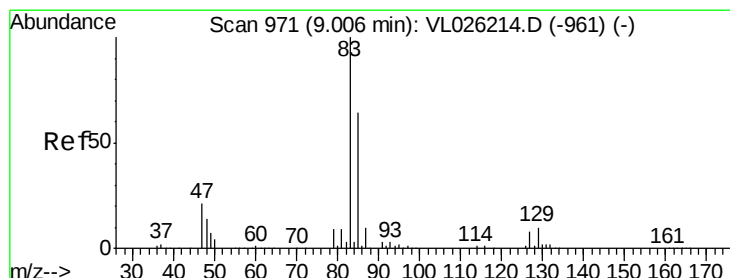
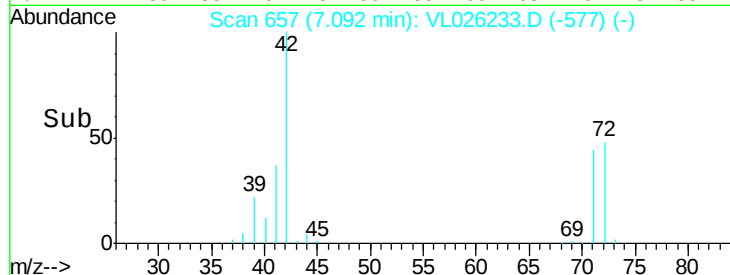
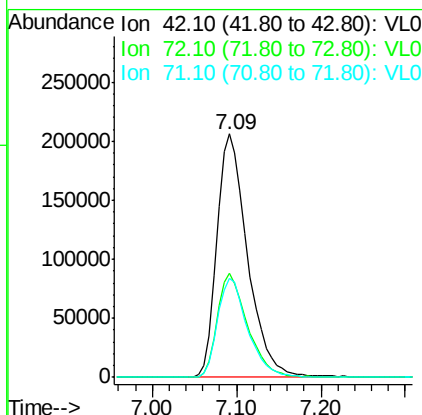
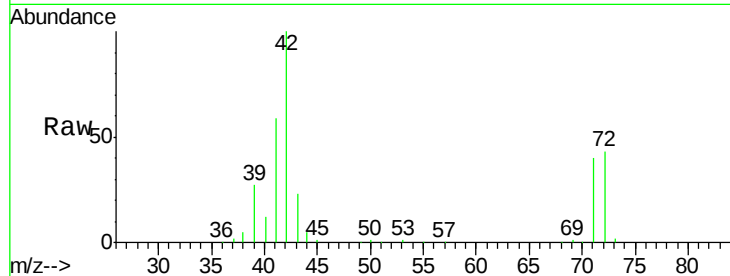
ClientSampleId :

VSTDCCC010

Tot Ion:	42	Resp:	516506
Ion	Ratio	Lower	Upper
42	100		
72	42.3	34.3	51.5
71	40.1	32.1	48.1

Manual Integrations
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#42

Bromodichloromethane

Concen: 10.06 ppbv

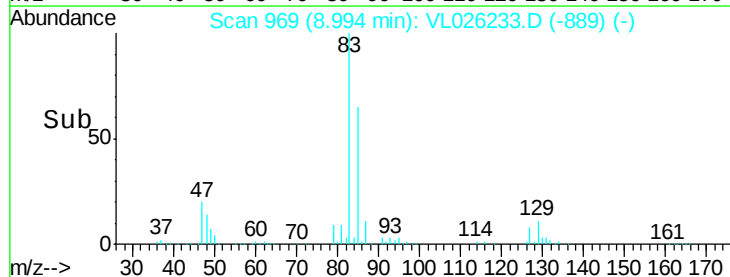
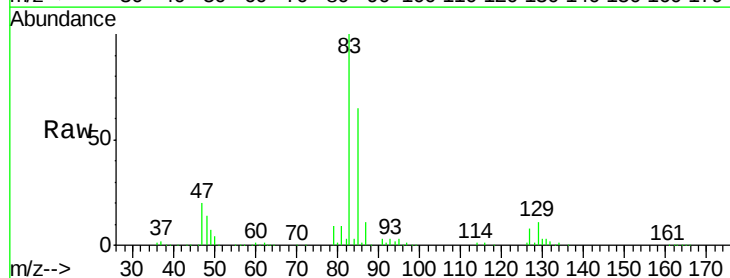
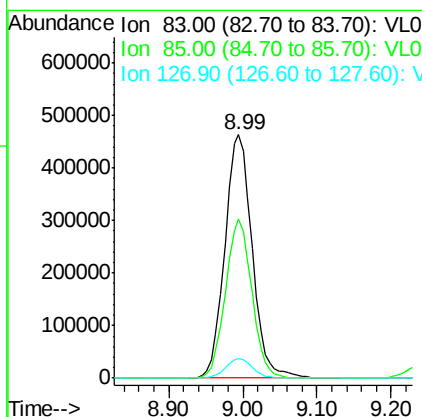
RT: 8.99 min Scan# 969

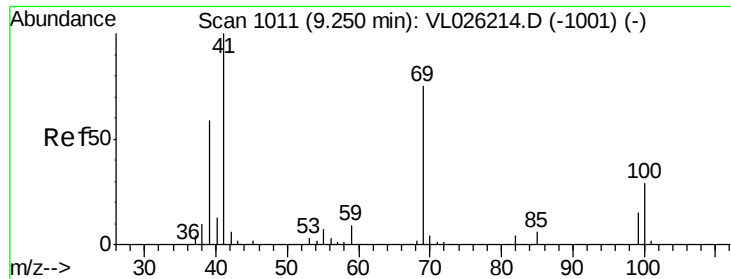
Delta R.T. -0.01 min

Lab File: VL026233.D

Acq: 21 Oct 2015 9:44

Tgt Ion:	83	Resp:	1190200
Ion	Ratio	Lower	Upper
83	100		
85	65.2	50.9	76.3
127	7.9	6.2	9.4





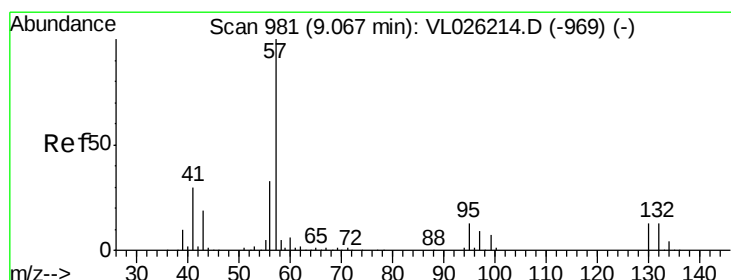
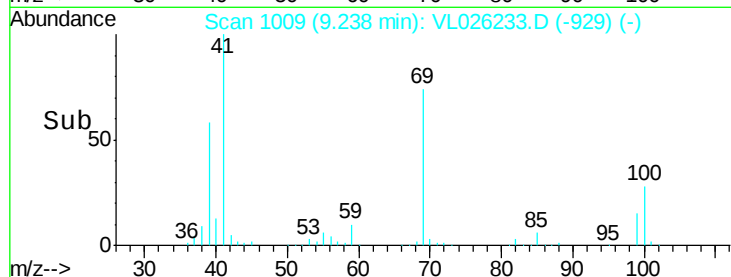
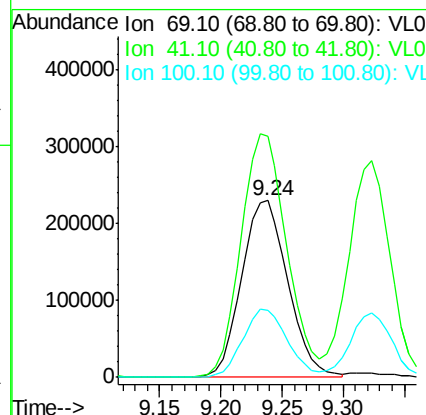
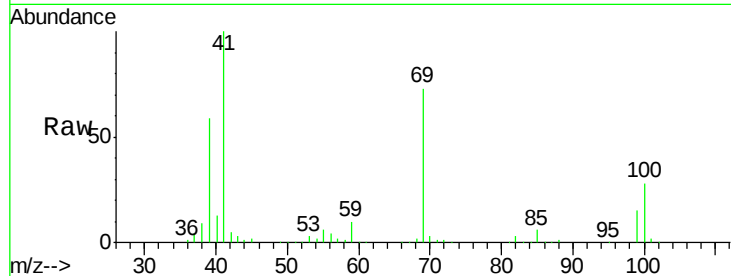
#43
Methvl Methacrvlate
Concen: 10.37 ppbv
RT: 9.24 min Scan# 1009
Delta R.T. -0.01 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
69	100		
41	137.7	108.4	162.6
100	37.9	30.6	45.8

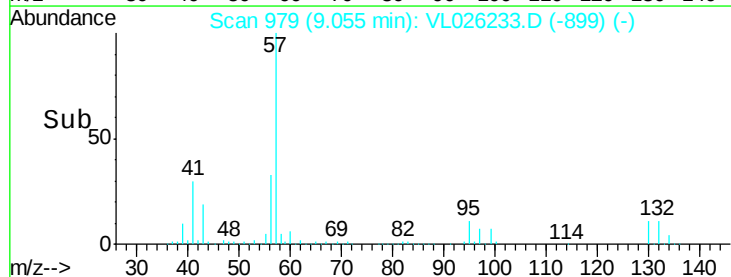
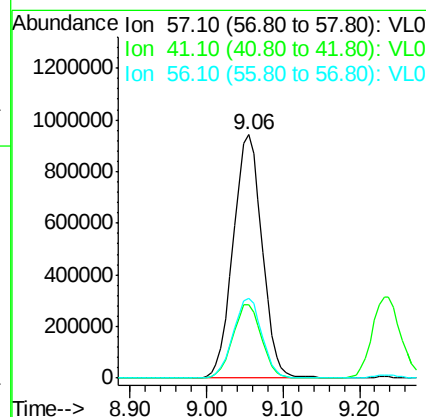
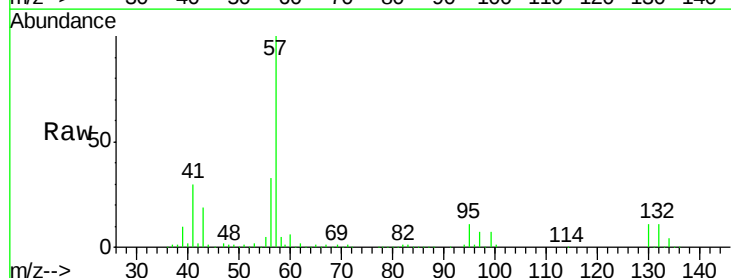
Manual Integrations
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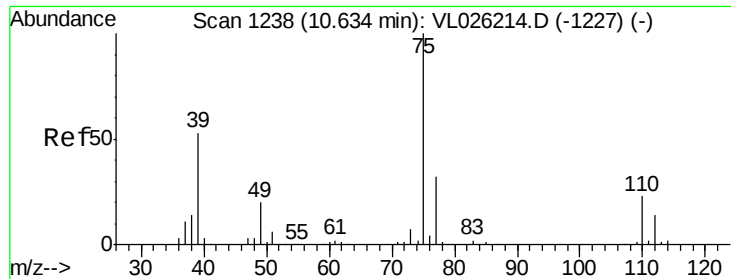
MMDadoda
10/22/2015 4:35:39 PM



#44
2,2,4-Trimethylpentane
Concen: 9.54 ppbv
RT: 9.06 min Scan# 979
Delta R.T. -0.01 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Tgt Ion	Ratio	Lower	Upper
57	100		
41	30.0	23.7	35.5
56	32.4	25.9	38.9





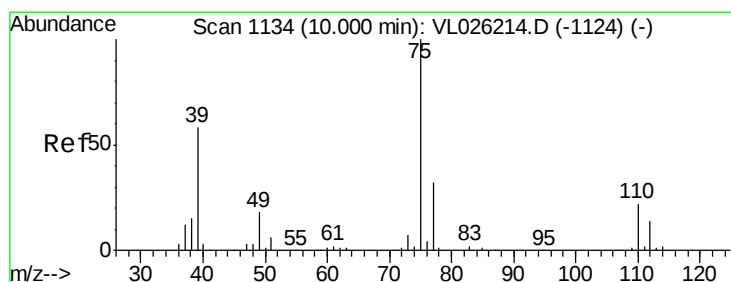
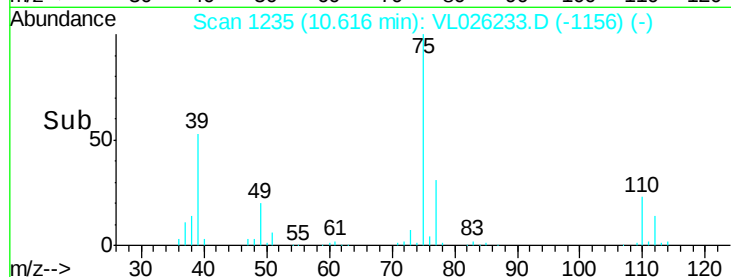
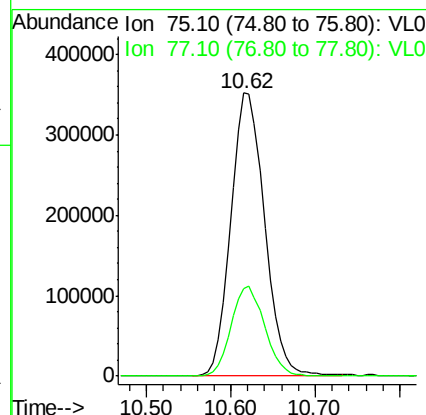
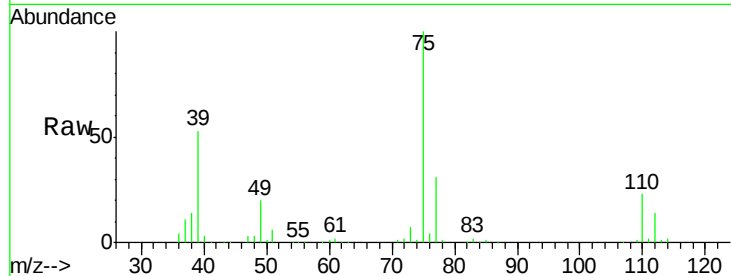
#45
t-1,3-Dichloropropene
Concen: 10.59 ppbv
RT: 10.62 min Scan# 1235
Delta R.T. -0.02 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 75 Resp: 962068
Ion Ratio Lower Upper
75 100
77 31.0 25.2 37.8

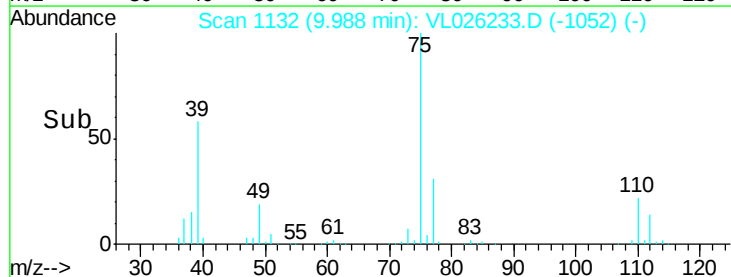
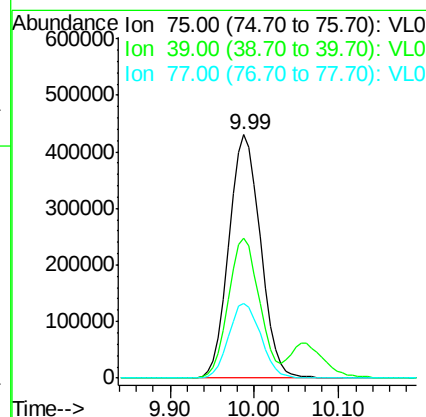
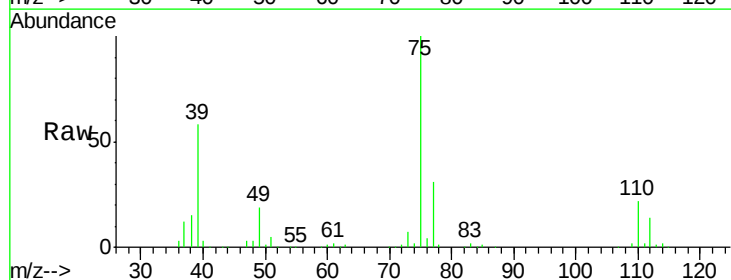
Manual Integrations
APPROVED

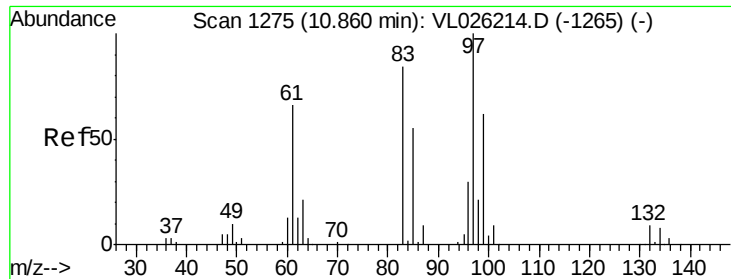
MMDadoda
10/22/2015 4:35:39 PM



#46
cis-1,3-Dichloropropene
Concen: 10.35 ppbv
RT: 9.99 min Scan# 1132
Delta R.T. -0.01 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Tgt Ion: 75 Resp: 1101215
Ion Ratio Lower Upper
75 100
39 57.6 46.2 69.4
77 30.7 25.4 38.0





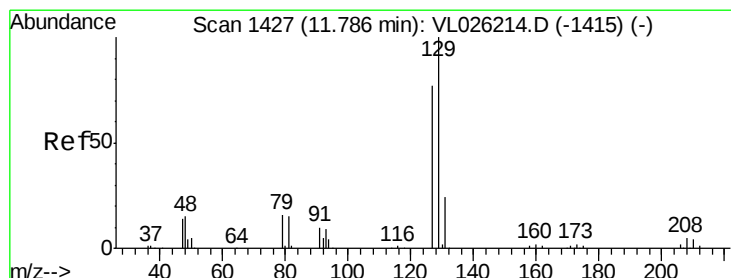
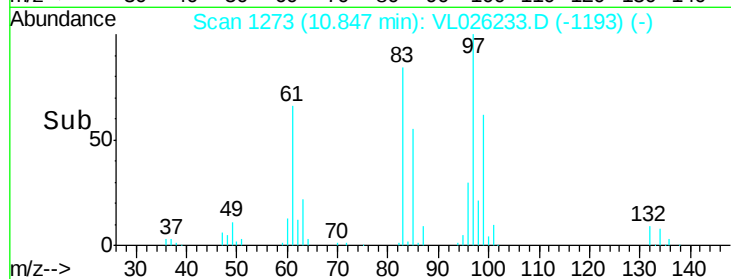
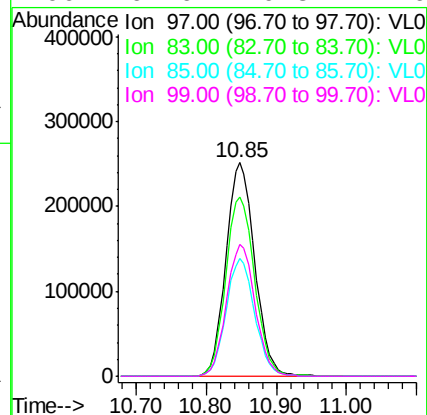
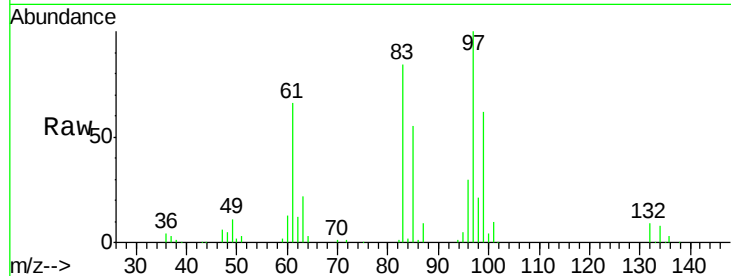
#47
 1,1,2-Trichloroethane
 Concen: 10.15 ppbv
 RT: 10.85 min Scan# 1273
 Delta R.T. -0.01 min
 Lab File: VL026233.D
 Acq: 21 Oct 2015 9:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
97	100		
83	84.1	67.4	101.2
85	55.3	43.8	65.6
99	61.6	49.8	74.6

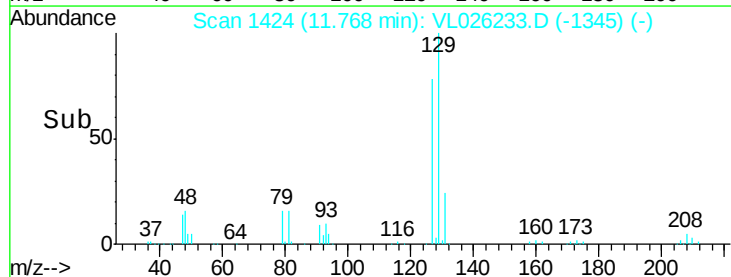
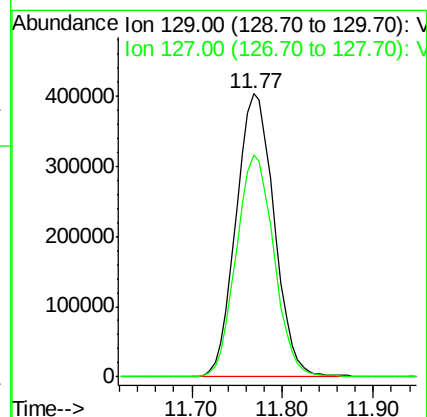
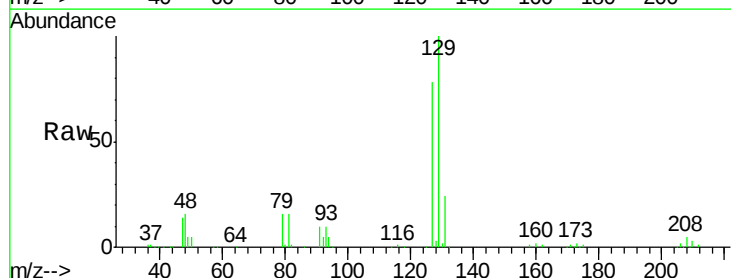
Manual Integrations
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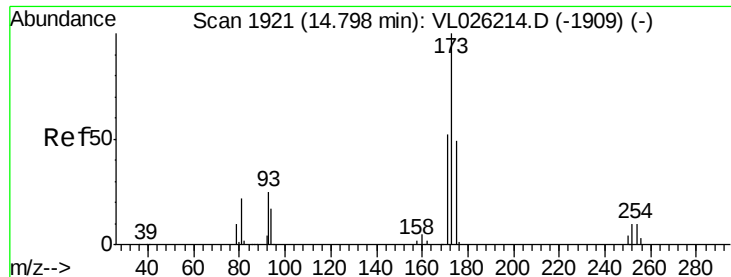
MMDadoda
 10/22/2015 4:35:39 PM



#48
 Dibromochloromethane
 Concen: 10.22 ppbv
 RT: 11.77 min Scan# 1424
 Delta R.T. -0.02 min
 Lab File: VL026233.D
 Acq: 21 Oct 2015 9:44

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.1	39.1	117.5





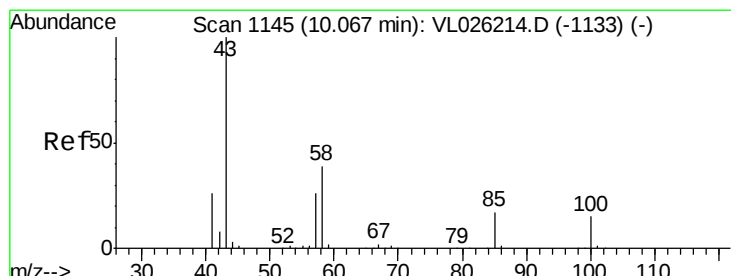
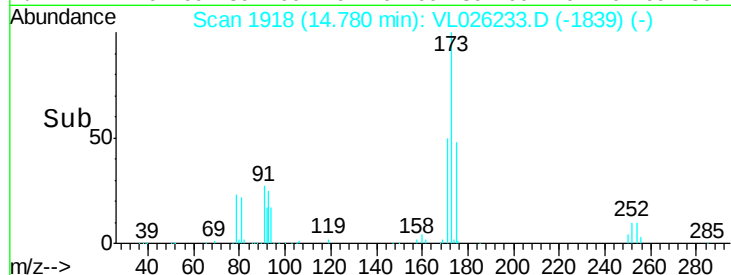
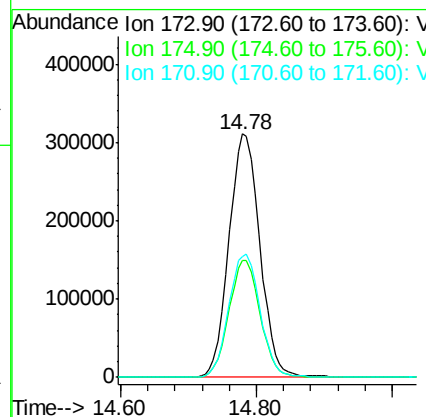
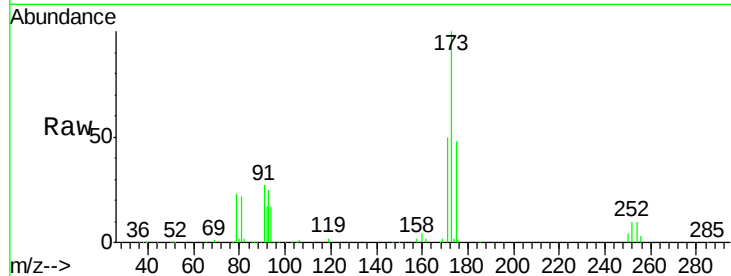
#49
Bromoform
Concen: 10.09 ppbv
RT: 14.78 min Scan# 1918
Delta R.T. -0.02 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.6	38.7	58.1
171	51.6	41.6	62.4

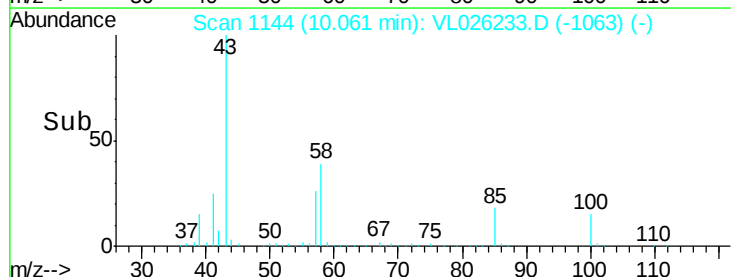
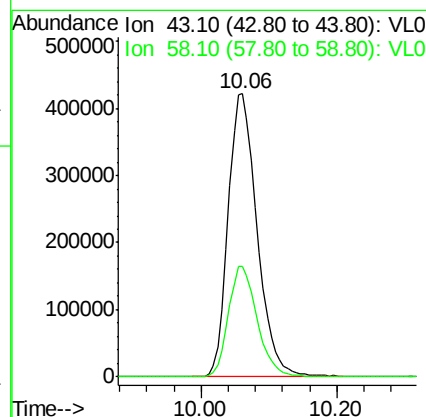
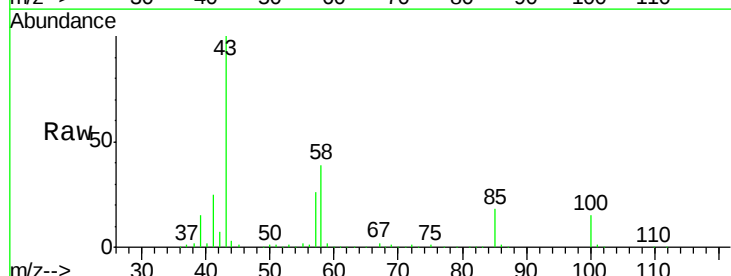
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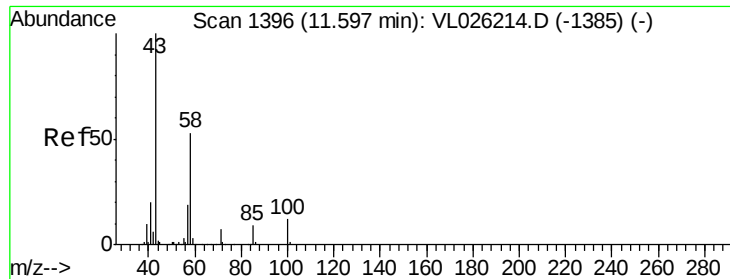
MMDadoda
10/22/2015 4:35:39 PM



#50
4-Methyl-2-Pentanone
Concen: 10.37 ppbv
RT: 10.06 min Scan# 1144
Delta R.T. -0.01 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Tgt Ion	Ratio	Lower	Upper
43	100		
58	39.0	31.1	46.7





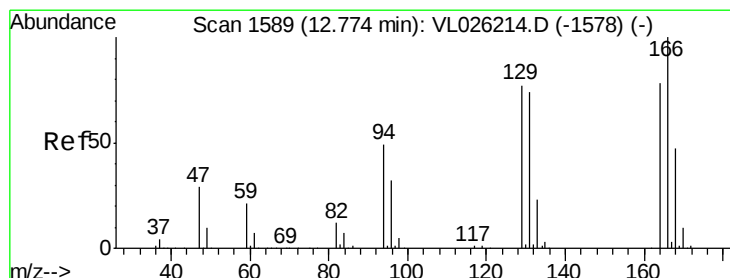
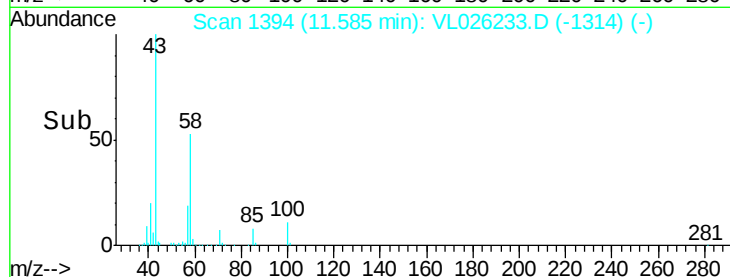
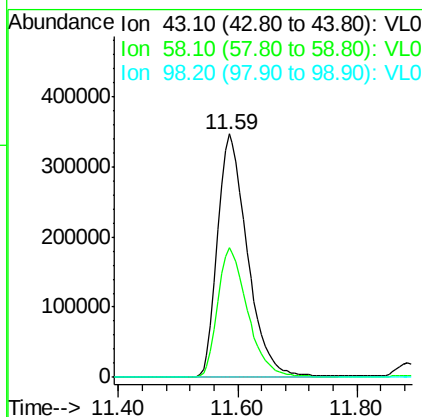
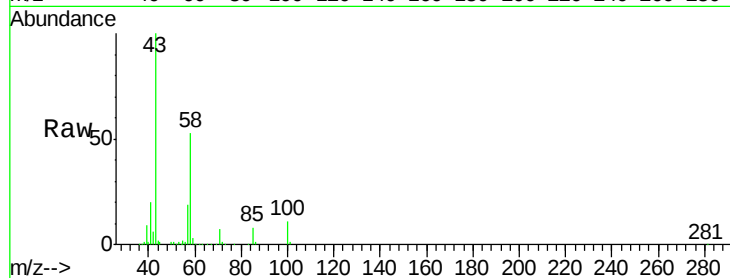
#51
2-Hexanone
Concen: 10.82 ppbv
RT: 11.59 min Scan# 1394
Delta R.T. -0.01 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 1211263
Ion Ratio Lower Upper
43 100
58 53.4 43.2 64.8
98 0.0 0.0 0.0#

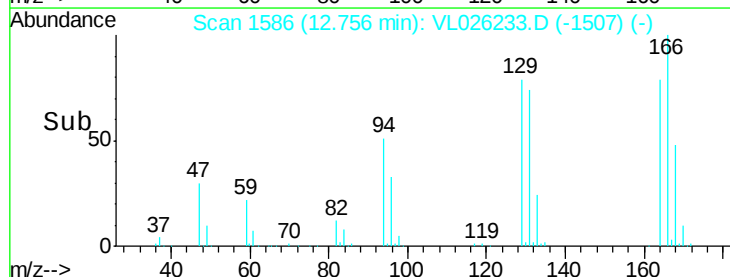
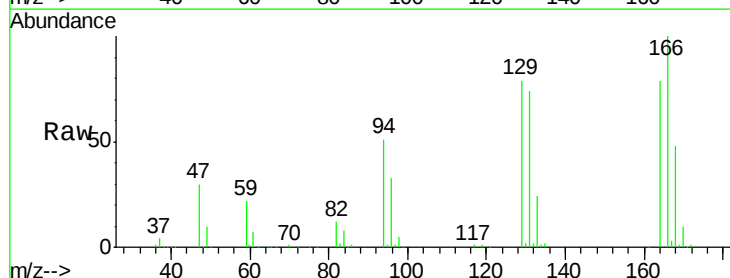
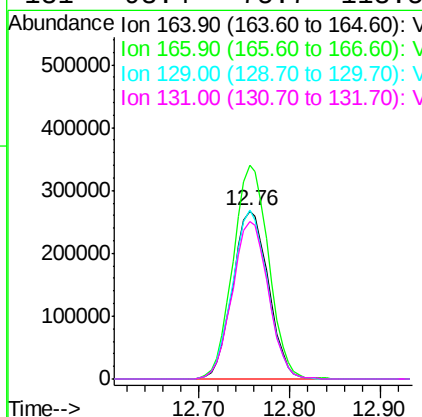
Manual Integrations
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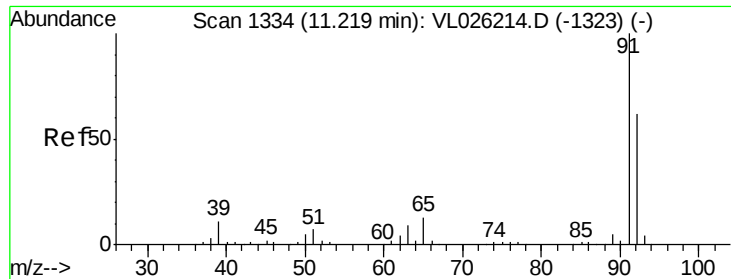
MMDadoda
10/22/2015 4:35:39 PM



#52
Tetrachloroethene
Concen: 7.98 ppbv
RT: 12.76 min Scan# 1586
Delta R.T. -0.02 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Tgt Ion: 164 Resp: 732695
Ion Ratio Lower Upper
164 100
166 127.0 102.3 153.5
129 100.3 78.2 117.4
131 93.4 75.7 113.5





#53

Toluene

Concen: 9.85 ppbv

RT: 11.20 min Scan# 1331

Delta R.T. -0.02 min

Lab File: VL026233.D

Acq: 21 Oct 2015 9:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2142656

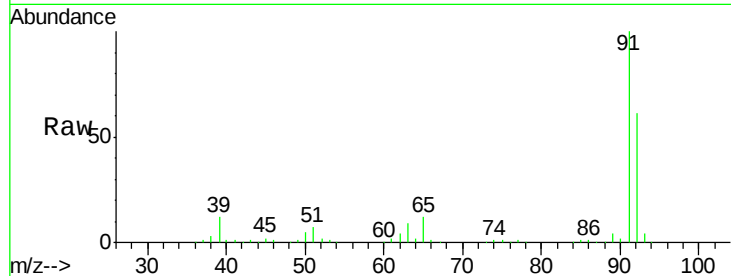
Ion Ratio Lower Upper

91 100

92 61.3 49.2 73.8

Manual Integrations
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MMDadoda
10/22/2015 4:35:39 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

11.20

800000

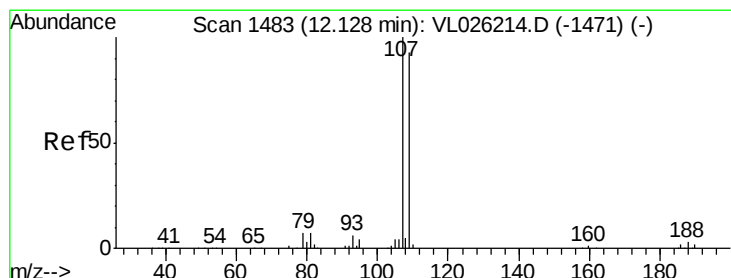
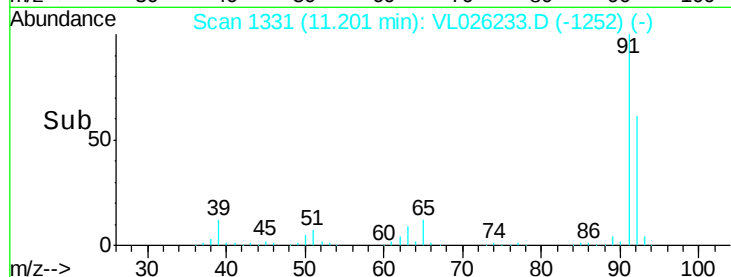
600000

400000

200000

0

Time-->



#54

1,2-Dibromoethane

Concen: 10.08 ppbv

RT: 12.11 min Scan# 1480

Delta R.T. -0.02 min

Lab File: VL026233.D

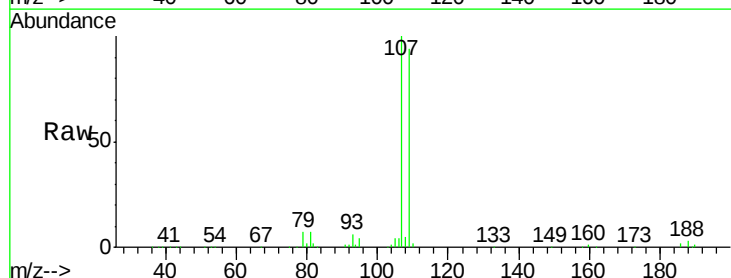
Acq: 21 Oct 2015 9:44

Tgt Ion: 107 Resp: 1102972

Ion Ratio Lower Upper

107 100

109 94.0 74.7 112.1



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

12.11

400000

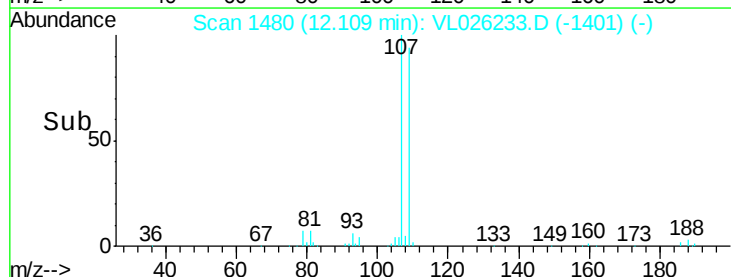
300000

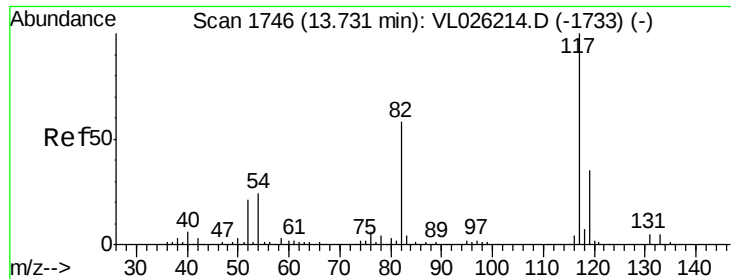
200000

100000

0

Time-->





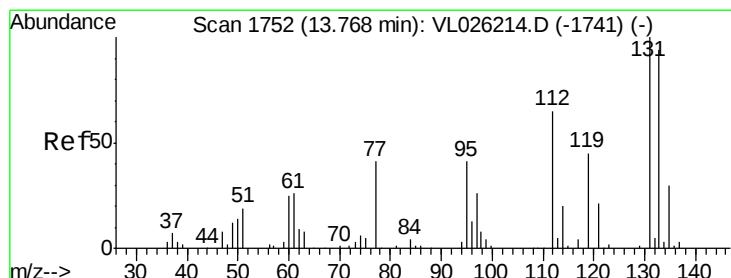
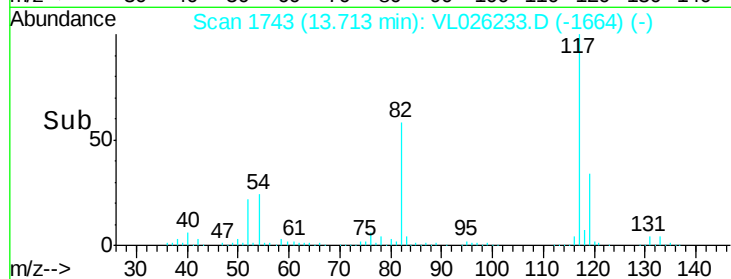
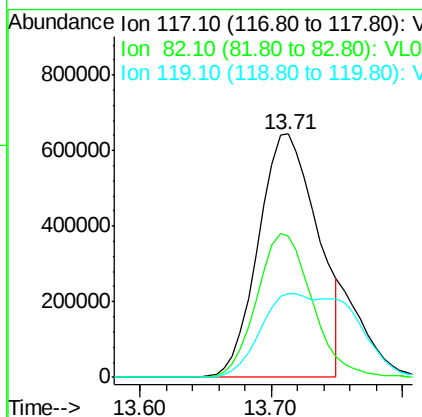
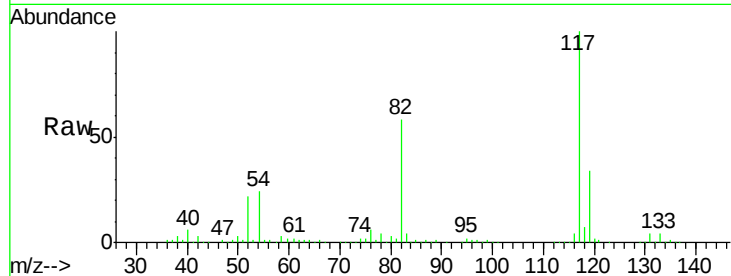
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 13.71 min Scan# 1743
Delta R.T. -0.02 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:117 Resp: 2026935
Ion Ratio Lower Upper
117 100
82 55.6 45.8 68.8
119 55.5 45.0 67.4

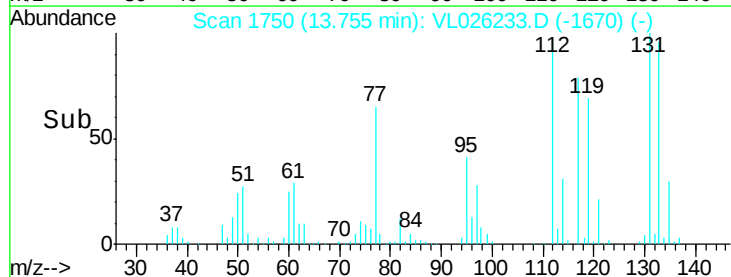
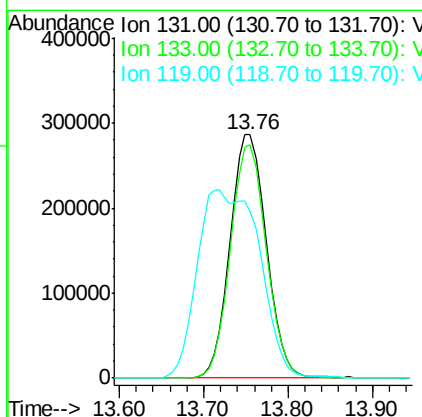
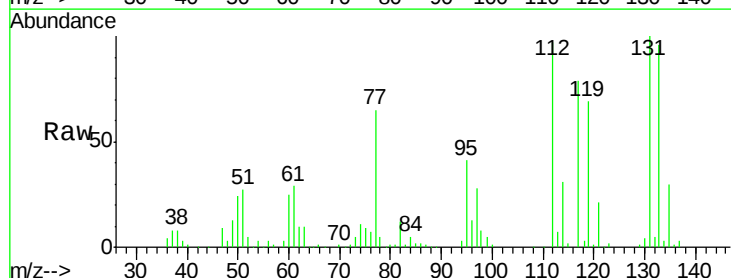
Manual Integrations
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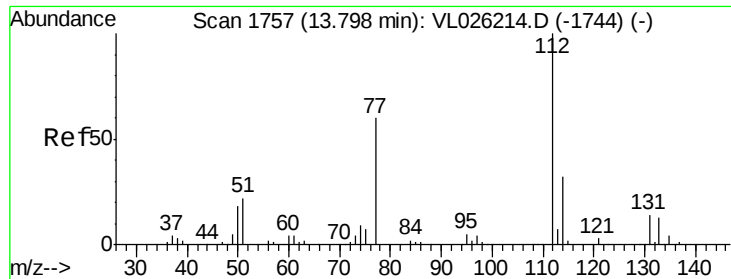
MMDadoda
10/22/2015 4:35:39 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 8.64 ppbv
RT: 13.76 min Scan# 1750
Delta R.T. -0.01 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Tgt Ion:131 Resp: 840471
Ion Ratio Lower Upper
131 100
133 95.1 75.9 113.9
119 133.9 108.0 162.0





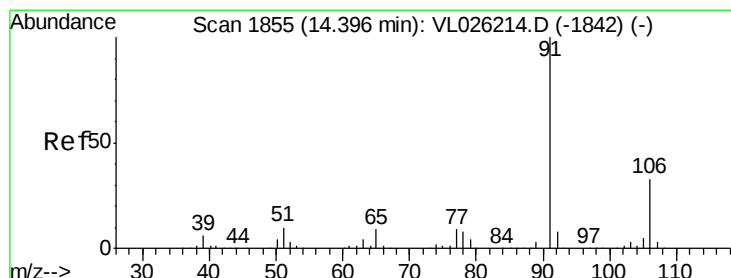
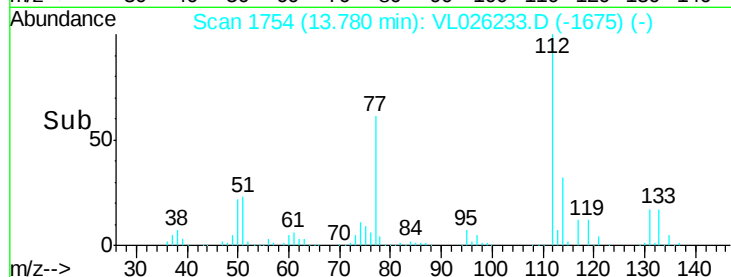
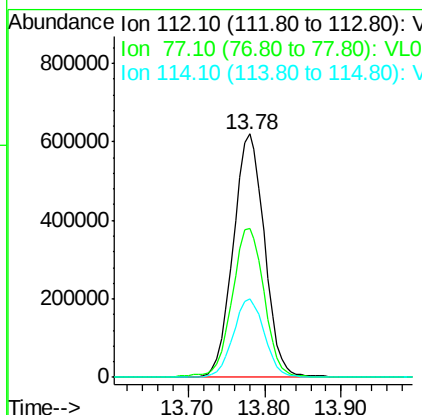
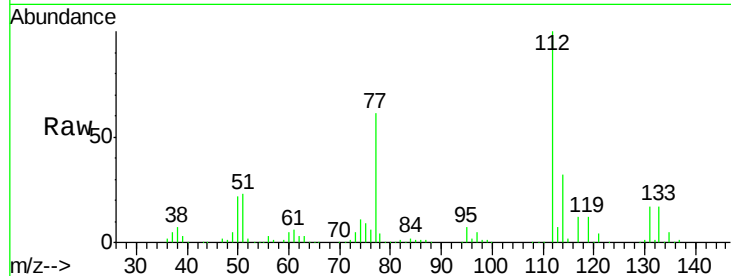
#57
Chlorobenzene
Concen: 9.08 ppbv
RT: 13.78 min Scan# 1754
Delta R.T. -0.02 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 112 Resp: 1761465
Ion Ratio Lower Upper
112 100
77 61.0 48.4 72.6
114 32.2 29.0 35.4

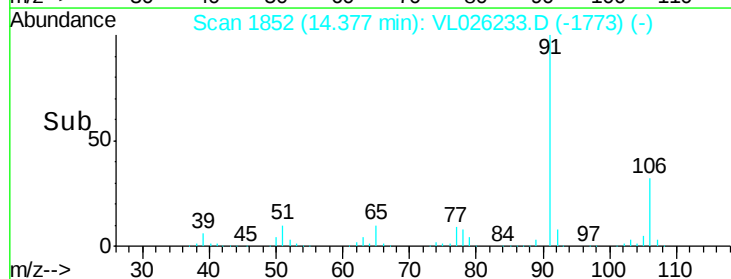
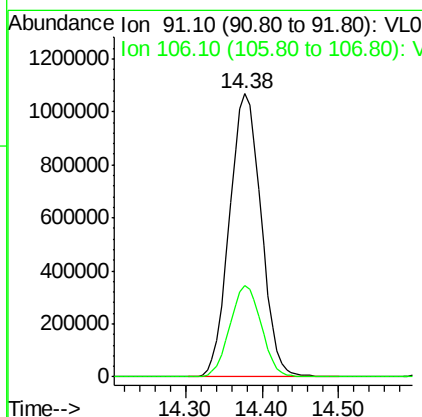
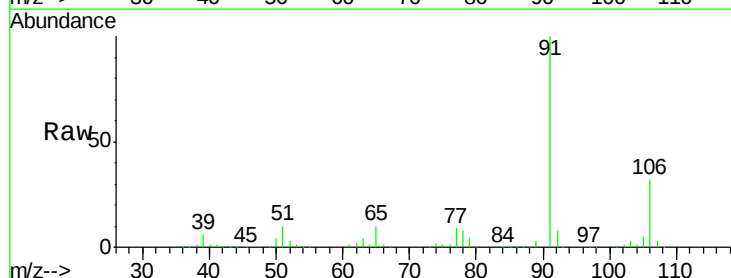
Manual Integrations
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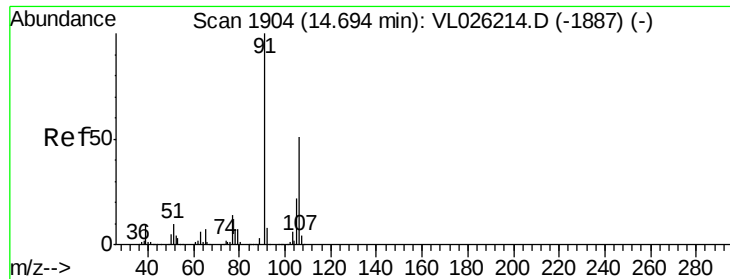
MMDadoda
10/22/2015 4:35:39 PM



#58
Ethyl Benzene
Concen: 9.34 ppbv
RT: 14.38 min Scan# 1852
Delta R.T. -0.02 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Tgt Ion: 91 Resp: 3069468
Ion Ratio Lower Upper
91 100
106 32.3 26.1 39.1





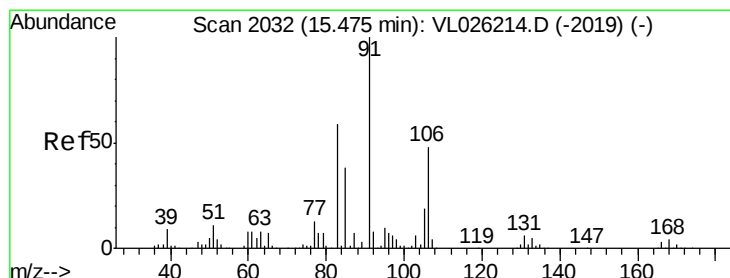
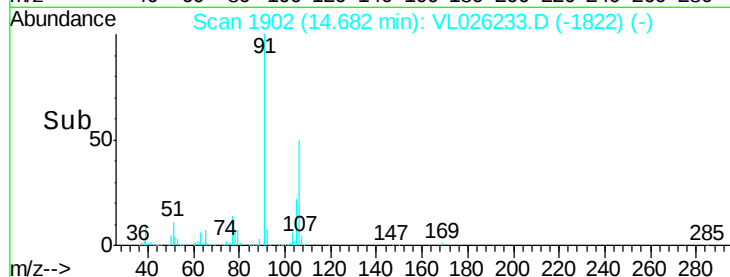
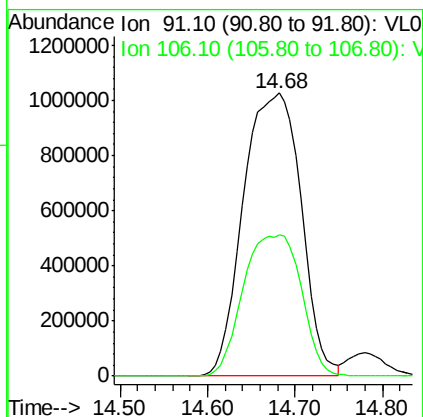
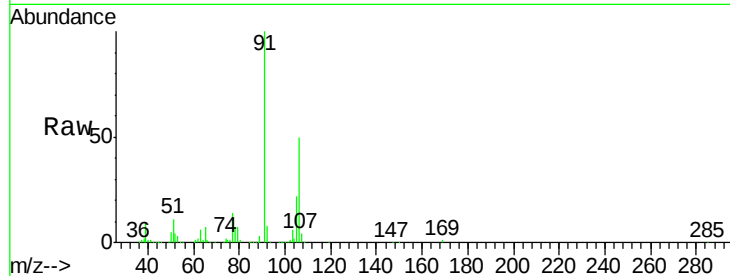
#59
m/p-Xylene
Concen: 18.21 ppbv
RT: 14.68 min Scan# 1902
Delta R.T. -0.01 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 4682796
Ion Ratio Lower Upper
91 100
106 50.9 40.6 61.0

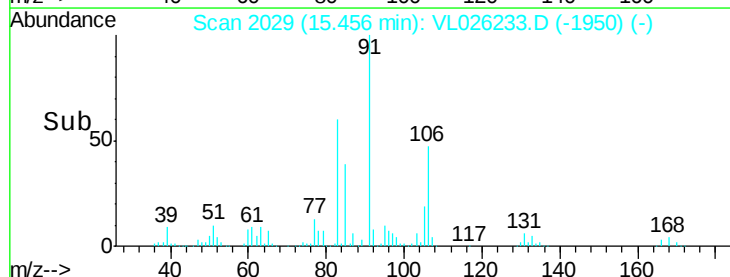
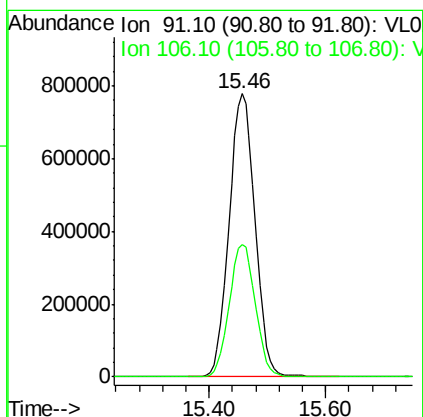
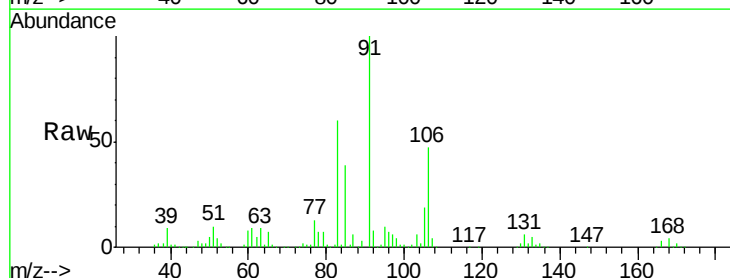
Manual Integrations
APPROVED

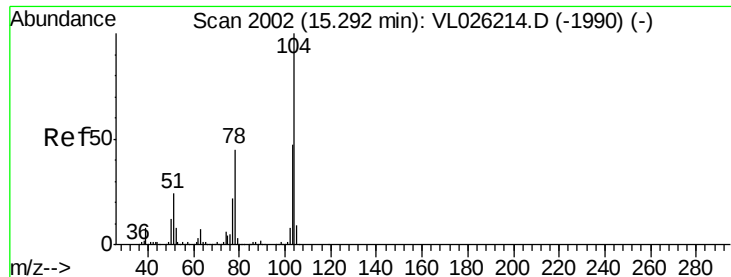
MMDadoda
10/22/2015 4:35:39 PM



#60
o-Xylene
Concen: 8.95 ppbv
RT: 15.46 min Scan# 2029
Delta R.T. -0.02 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Tgt Ion: 91 Resp: 2405182
Ion Ratio Lower Upper
91 100
106 47.2 23.8 71.5





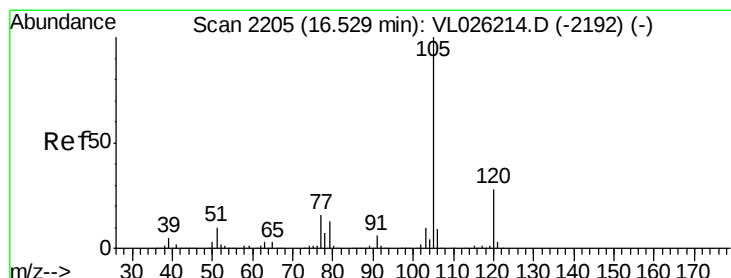
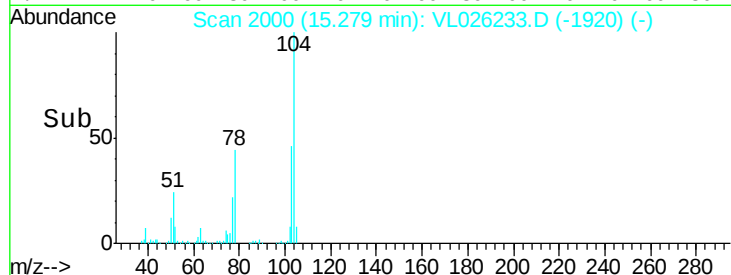
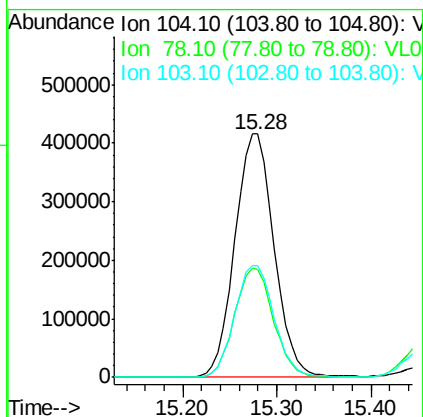
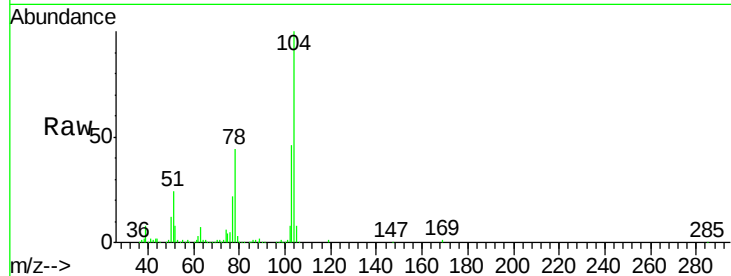
#61
Stvrene
Concen: 9.94 ppbv
RT: 15.28 min Scan# 2000
Delta R.T. -0.01 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	44.6	35.3	52.9
103	46.3	37.0	55.4

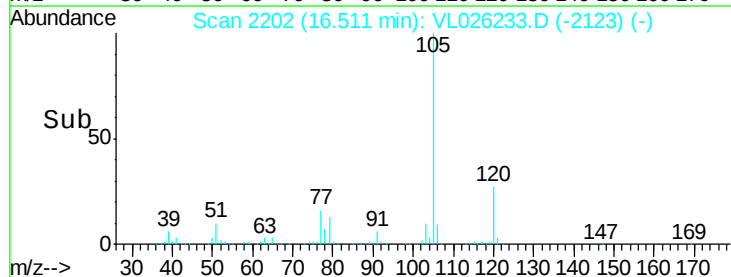
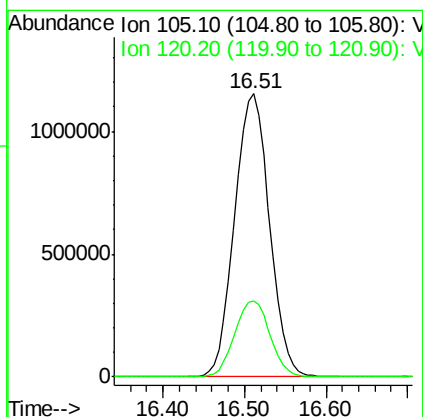
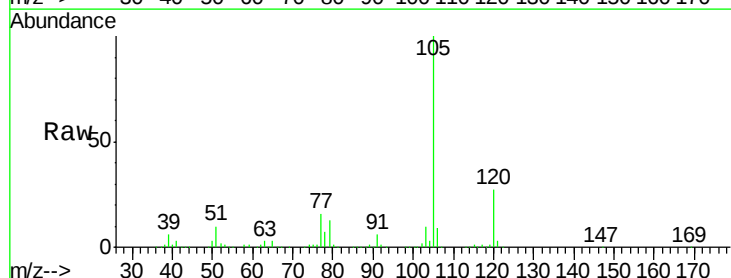
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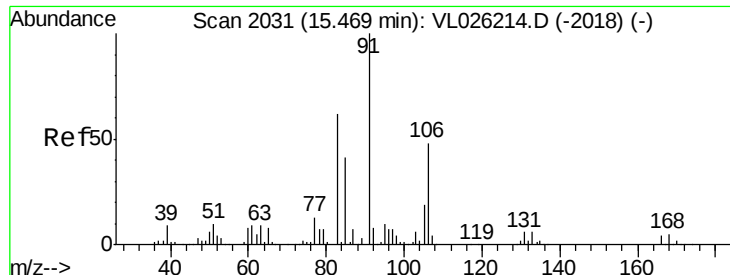
MMDadoda
10/22/2015 4:35:39 PM



#62
Isopropylbenzene
Concen: 9.15 ppbv
RT: 16.51 min Scan# 2202
Delta R.T. -0.02 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.2	21.8	32.8





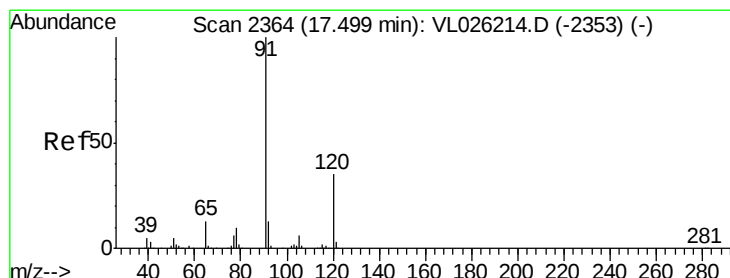
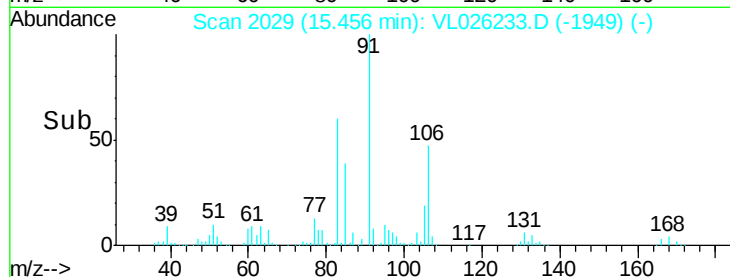
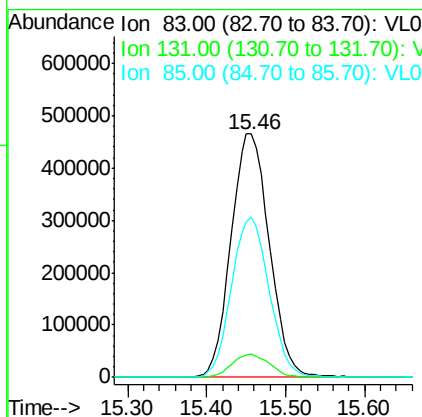
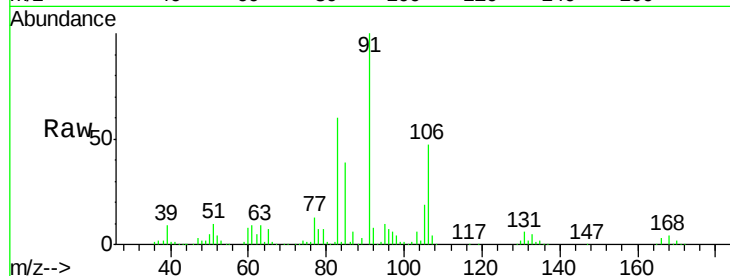
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.84 ppbv
 RT: 15.46 min Scan# 2029
 Delta R.T. -0.01 min
 Lab File: VL026233.D
 Acq: 21 Oct 2015 9:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 83 Resp: 1571964
 Ion Ratio Lower Upper
 83 100
 131 9.6 5.0 14.9
 85 64.9 32.3 96.9

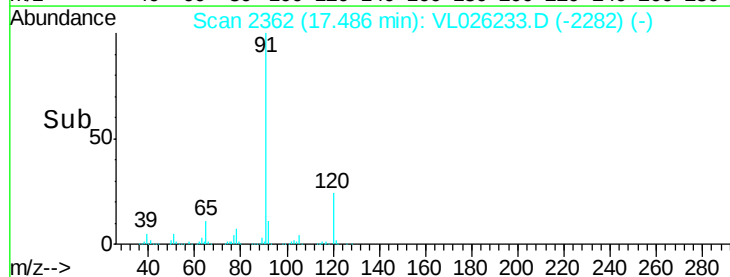
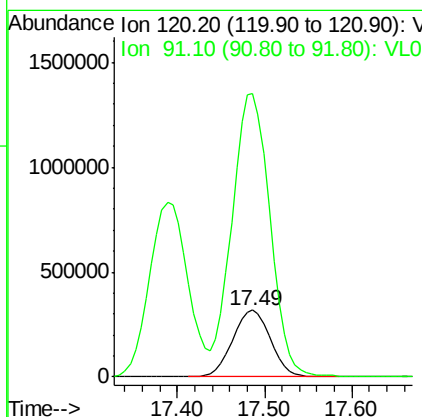
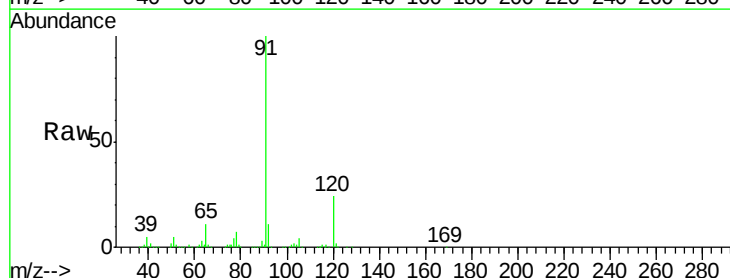
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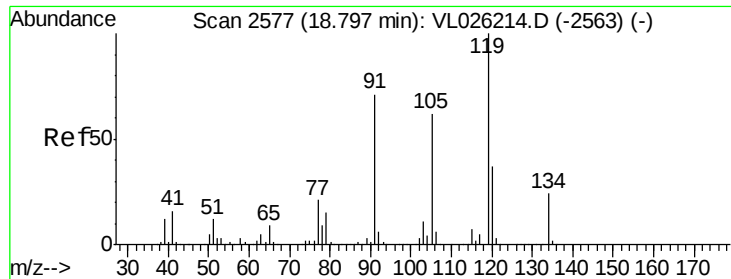
MMDadoda
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#64
 n-propylbenzene
 Concen: 9.26 ppbv
 RT: 17.49 min Scan# 2362
 Delta R.T. -0.01 min
 Lab File: VL026233.D
 Acq: 21 Oct 2015 9:44

Tgt Ion: 120 Resp: 952555
 Ion Ratio Lower Upper
 120 100
 91 433.2 331.7 497.5





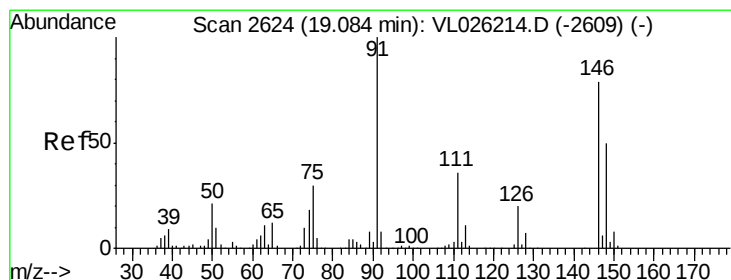
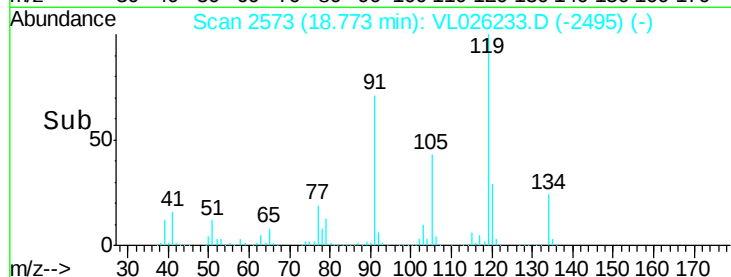
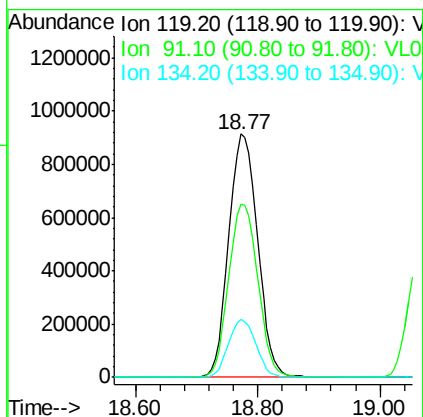
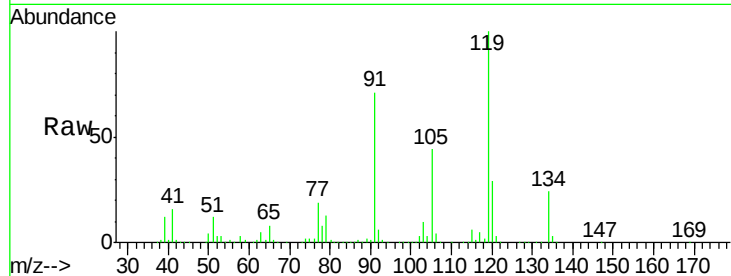
#65
tert-Butylbenzene
Concen: 8.71 ppbv
RT: 18.77 min Scan# 2573
Delta R.T. -0.02 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 119 Resp: 2974097
Ion Ratio Lower Upper
119 100
91 72.1 57.5 86.3
134 22.6 18.1 27.1

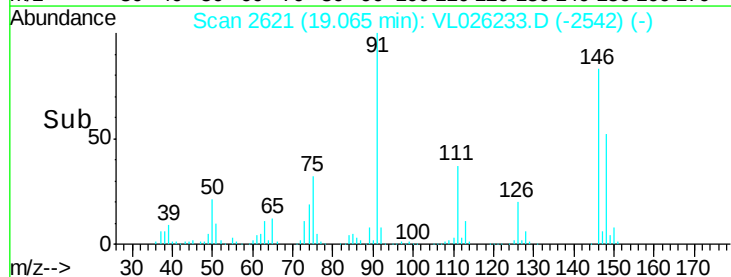
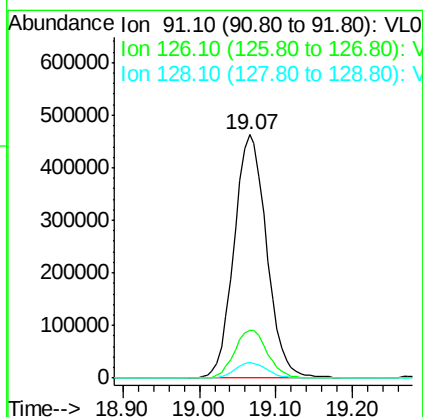
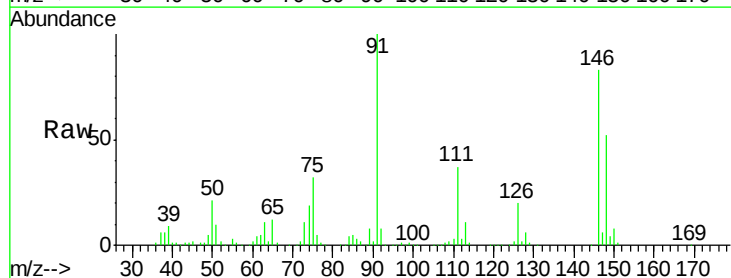
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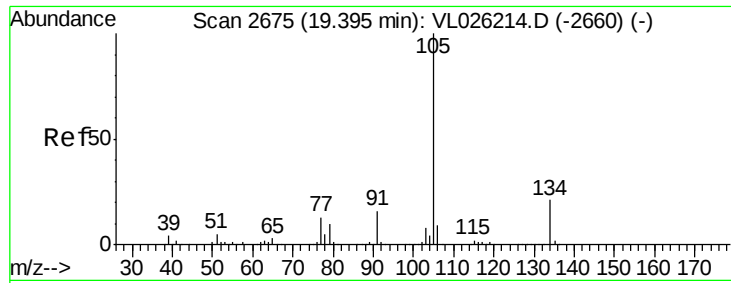
MMDadoda
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#66
Benzyl Chloride
Concen: 9.64 ppbv
RT: 19.07 min Scan# 2621
Delta R.T. -0.02 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Tgt Ion: 91 Resp: 1358693
Ion Ratio Lower Upper
91 100
126 20.0 16.2 24.2
128 6.4 5.1 7.7





#67

sec-Butylbenzene

Concen: 9.06 ppbv

RT: 19.37 min Scan# 2671

Delta R.T. -0.02 min

Lab File: VL026233.D

Acq: 21 Oct 2015 9:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 105 Resp: 4312338

Ion Ratio Lower Upper

105 100

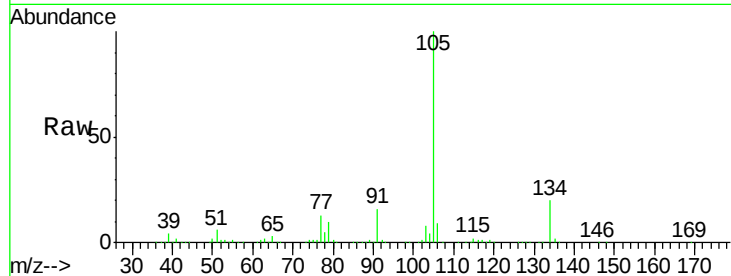
134 20.2 16.2 24.4

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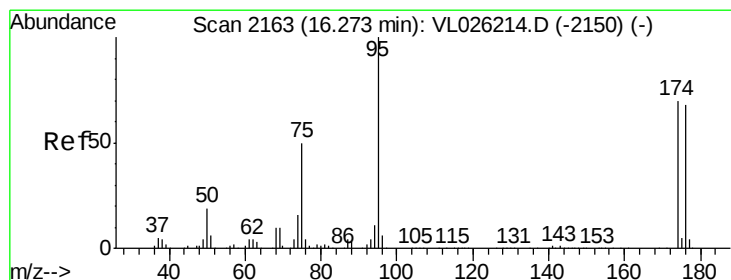
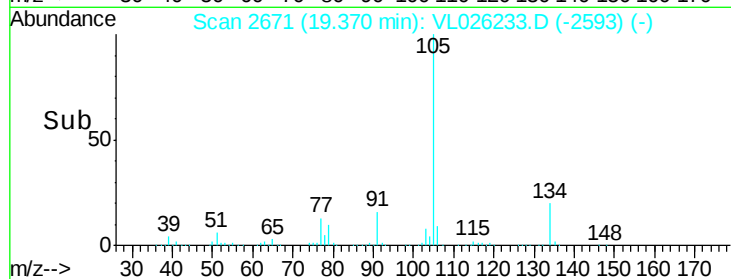
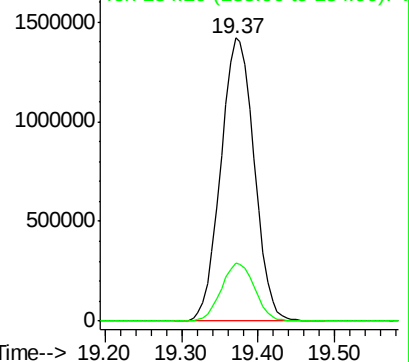
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.62 ppbv

RT: 16.25 min Scan# 2160

Delta R.T. -0.02 min

Lab File: VL026233.D

Acq: 21 Oct 2015 9:44

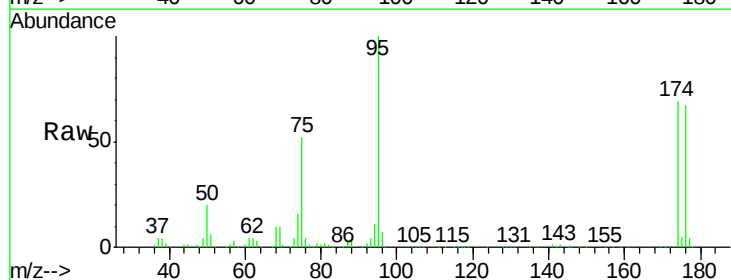
Tgt Ion: 95 Resp: 1504186

Ion Ratio Lower Upper

95 100

174 68.5 55.8 83.8

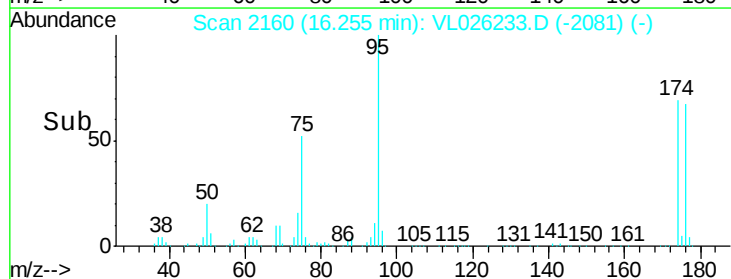
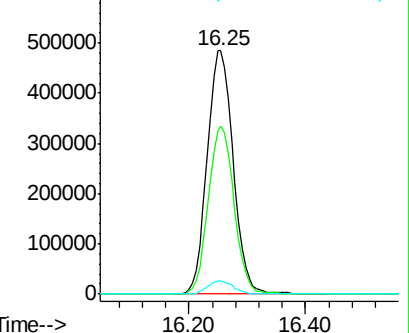
175 5.3 4.3 6.5

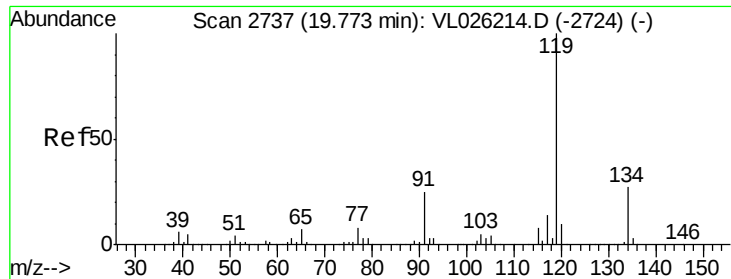


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





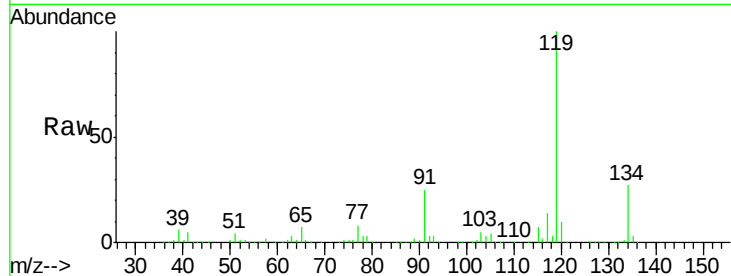
#69
p-Isopropyltoluene
Concen: 9.03 ppbv
RT: 19.75 min Scan# 2734
Delta R.T. -0.02 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

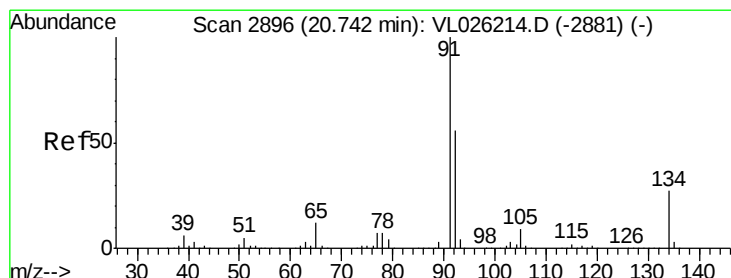
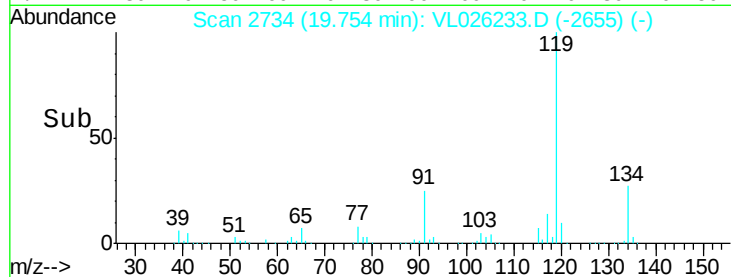
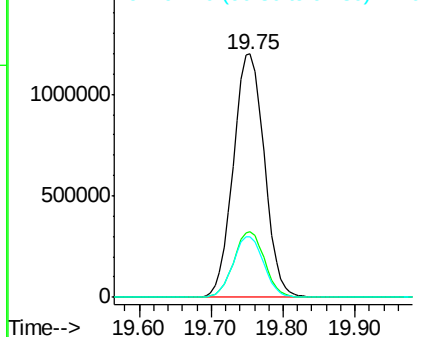
Tot Ion: 119 Resp: 3592076
Ion Ratio Lower Upper
119 100
134 26.7 21.4 32.0
91 24.6 19.5 29.3

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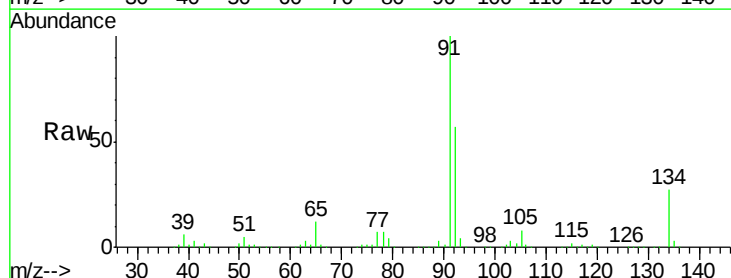


Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): V

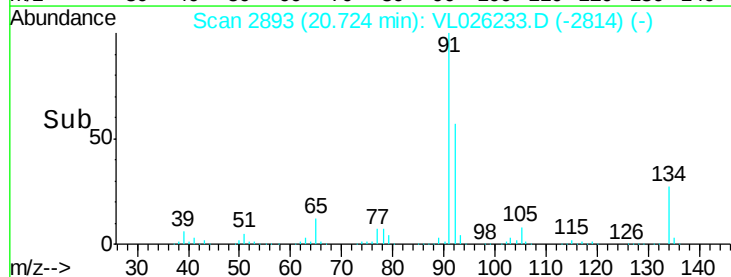
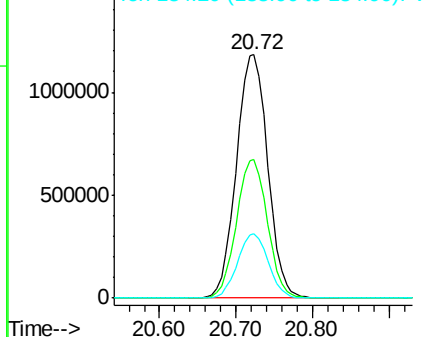


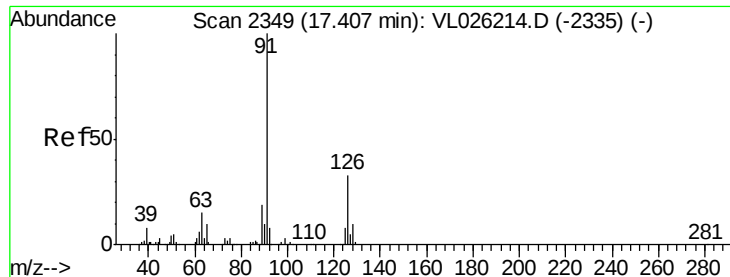
#70
n-Butylbenzene
Concen: 9.23 ppbv
RT: 20.72 min Scan# 2893
Delta R.T. -0.02 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Tgt Ion: 91 Resp: 3358103
Ion Ratio Lower Upper
91 100
92 56.3 45.0 67.6
134 26.1 21.4 32.0



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: 9.38 ppbv

RT: 17.39 min Scan# 2346

Delta R.T. -0.02 min

Lab File: VL026233.D

Acq: 21 Oct 2015 9:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2582249

Ion Ratio Lower Upper

91 100

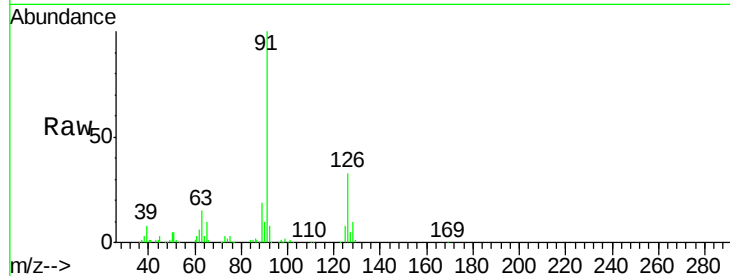
126 32.2 12.9 51.7

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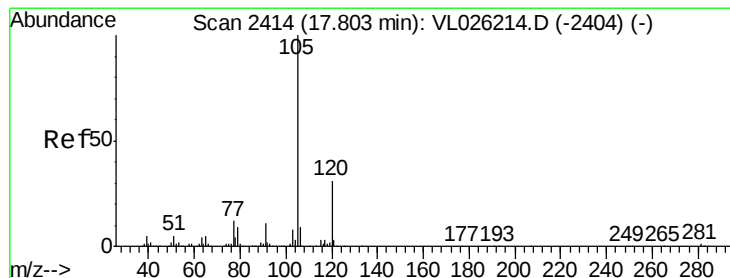
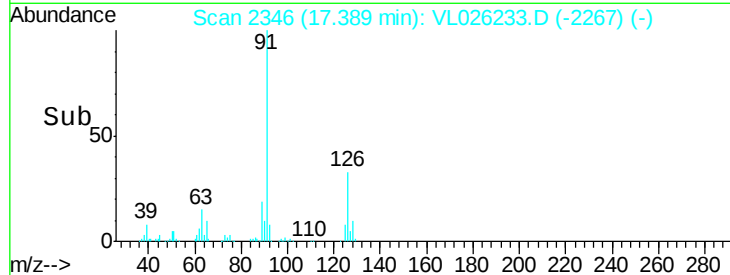
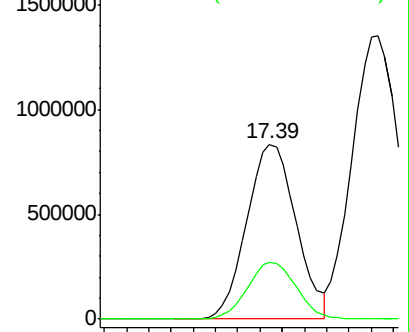
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.43 ppbv

RT: 17.79 min Scan# 2411

Delta R.T. -0.02 min

Lab File: VL026233.D

Acq: 21 Oct 2015 9:44

Tgt Ion:105 Resp: 2948764

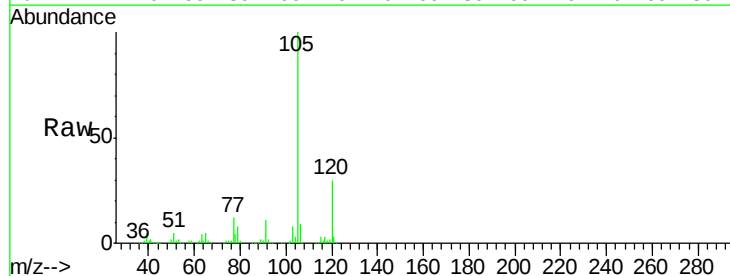
Ion Ratio Lower Upper

105 100

120 31.6 25.2 37.8

91 11.7 9.0 13.6

77 12.1 9.7 14.5

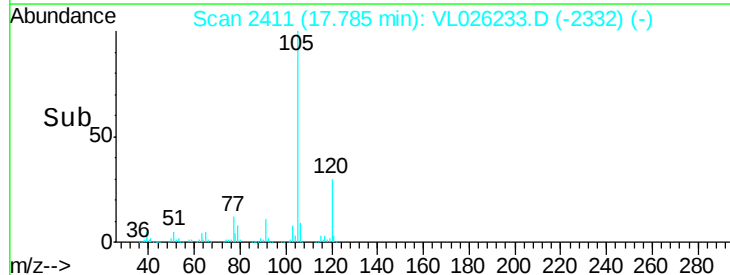
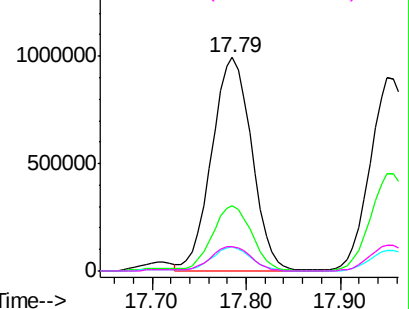


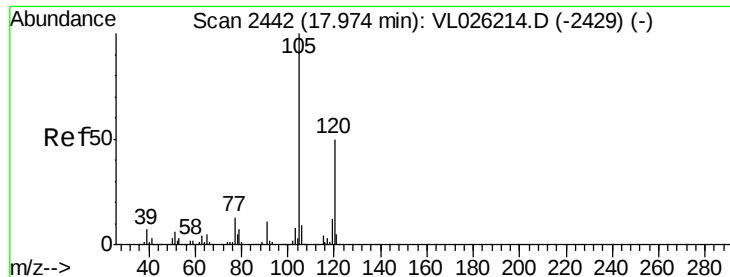
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 9.30 ppbv

RT: 17.95 min Scan# 2438

Delta R.T. -0.02 min

Lab File: VL026233.D

Acq: 21 Oct 2015 9:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 2712658

Ion Ratio Lower Upper

105 100

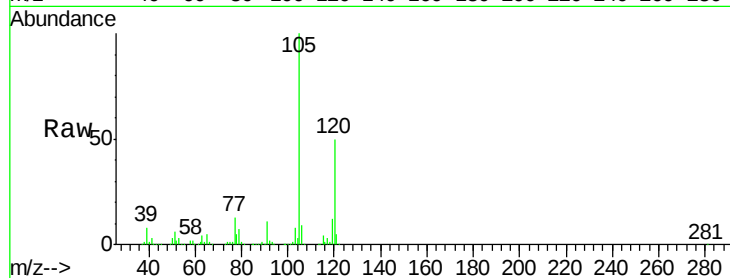
120 50.0 39.8 59.6

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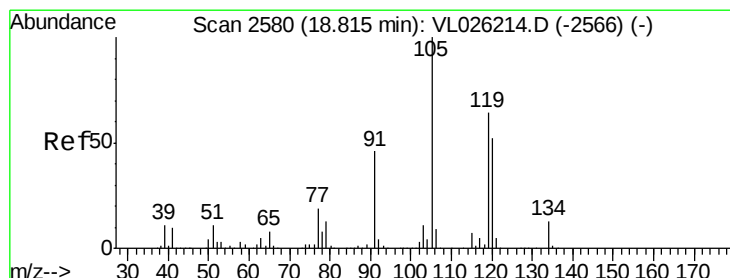
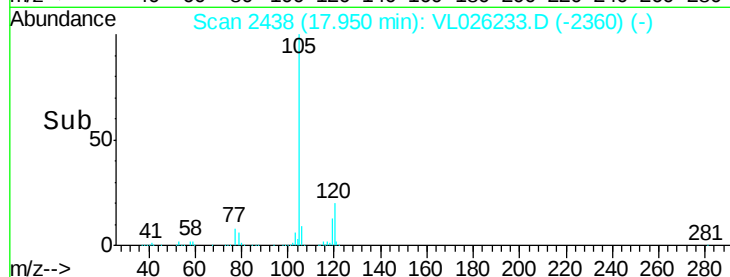
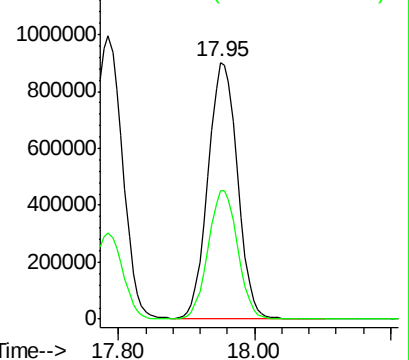
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.73 ppbv

RT: 18.80 min Scan# 2577

Delta R.T. -0.02 min

Lab File: VL026233.D

Acq: 21 Oct 2015 9:44

Tgt Ion:105 Resp: 2638779

Ion Ratio Lower Upper

105 100

120 51.1 41.2 61.8

91 45.7 37.2 55.8

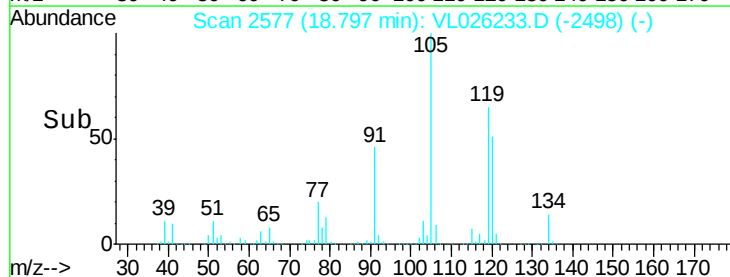
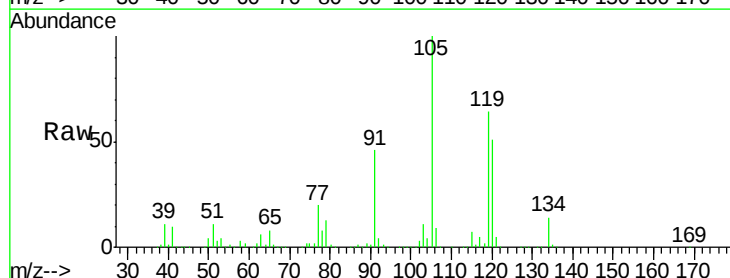
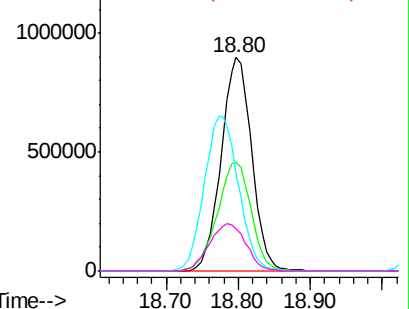
77 19.6 15.6 23.4

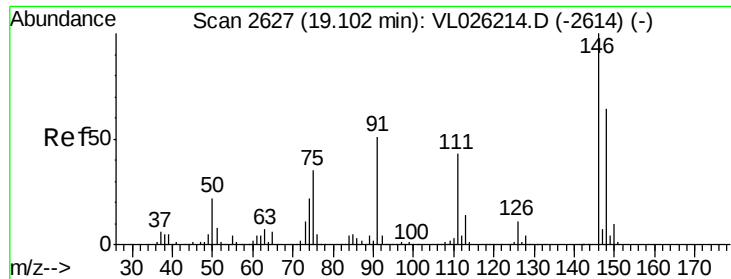
Abundance Ion 105.10 (104.80 to 105.80): V

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





#75

1,3-Dichlorobenzene

Concen: 9.03 ppbv

RT: 19.08 min Scan# 2624

Delta R.T. -0.02 min

Lab File: VL026233.D

Acq: 21 Oct 2015 9:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 1783762

Ion Ratio Lower Upper

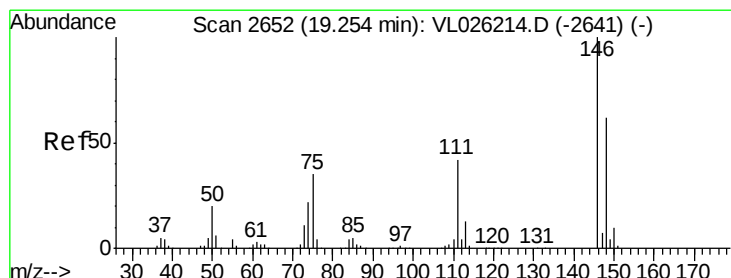
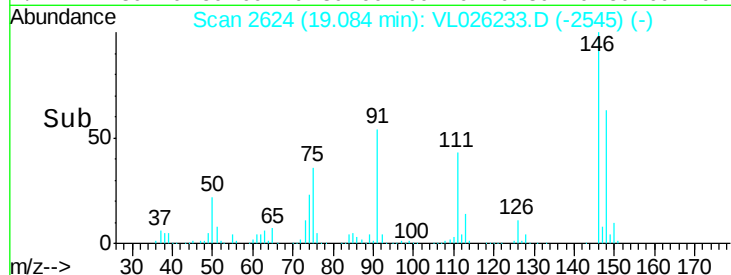
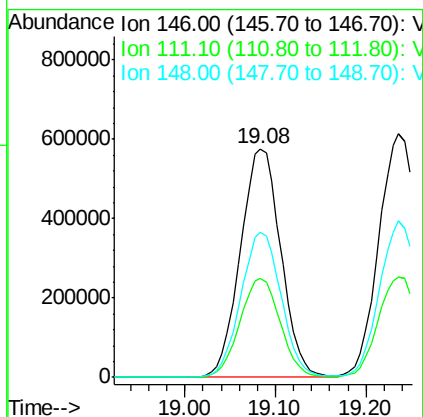
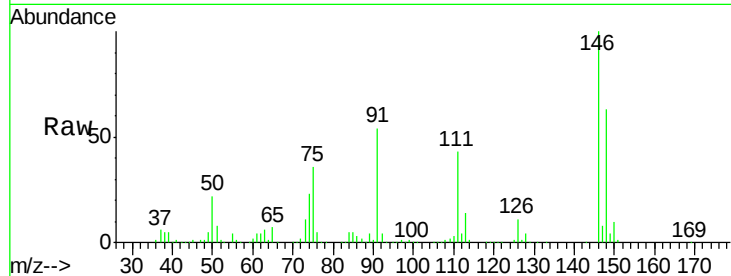
146 100

111 43.1 21.6 64.8

148 63.3 31.8 95.4

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#76

1,4-Dichlorobenzene

Concen: 9.08 ppbv

RT: 19.24 min Scan# 2649

Delta R.T. -0.02 min

Lab File: VL026233.D

Acq: 21 Oct 2015 9:44

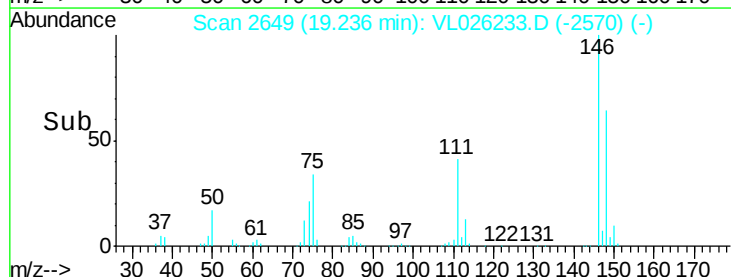
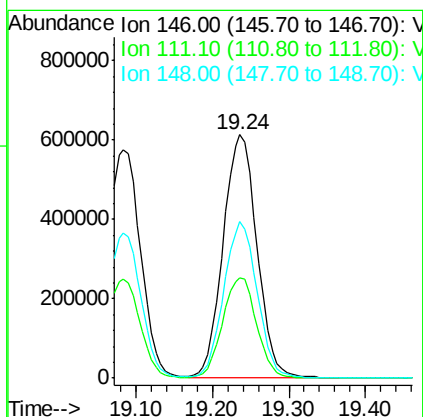
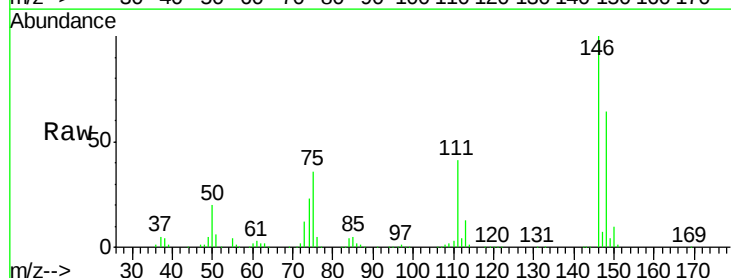
Tgt Ion:146 Resp: 1874173

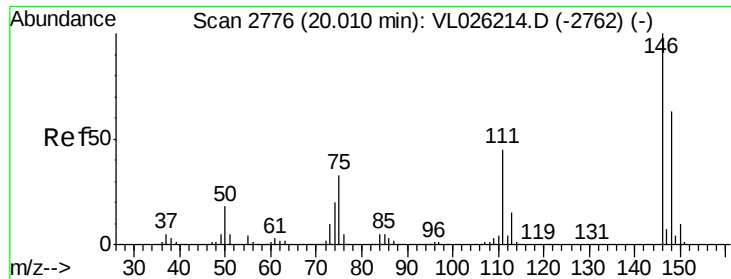
Ion Ratio Lower Upper

146 100

111 41.8 20.8 62.2

148 64.1 31.9 95.9





#77

1,2-Dichlorobenzene

Concen: 9.08 ppbv

RT: 19.99 min Scan# 2772

Delta R.T. -0.02 min

Lab File: VL026233.D

Acq: 21 Oct 2015 9:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 1809623

Ion Ratio Lower Upper

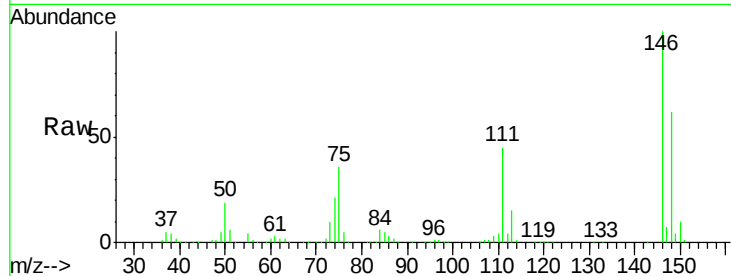
146 100

111 45.2 22.6 67.7

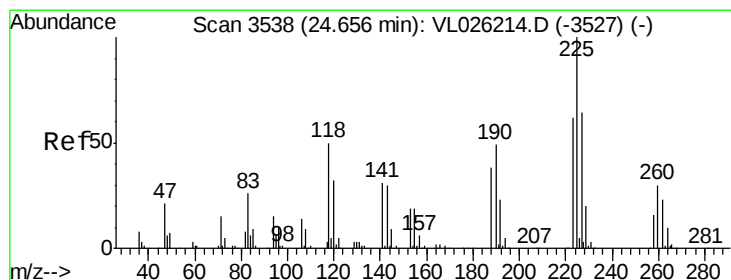
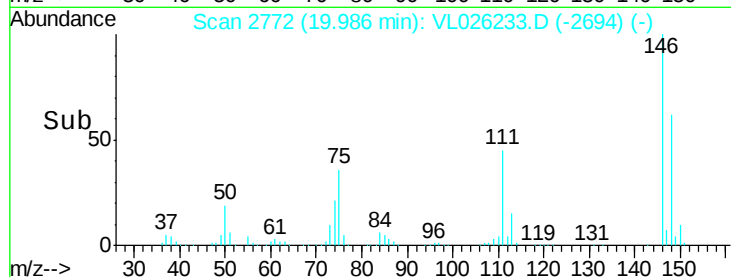
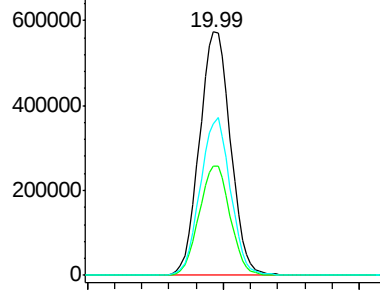
148 63.4 31.6 95.0

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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 7.53 ppbv

RT: 24.64 min Scan# 3535

Delta R.T. -0.02 min

Lab File: VL026233.D

Acq: 21 Oct 2015 9:44

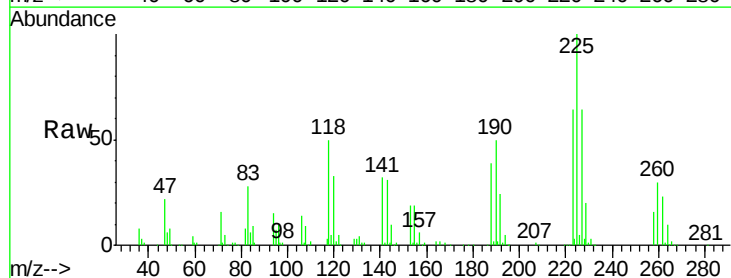
Tgt Ion:225 Resp: 769212

Ion Ratio Lower Upper

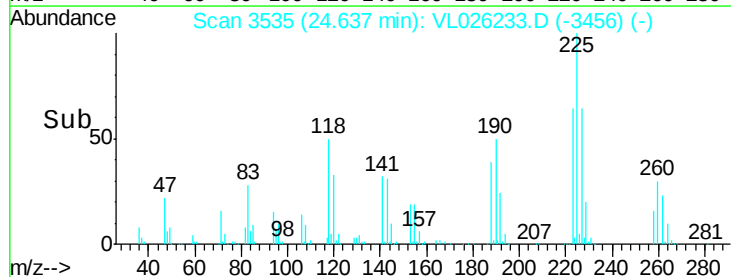
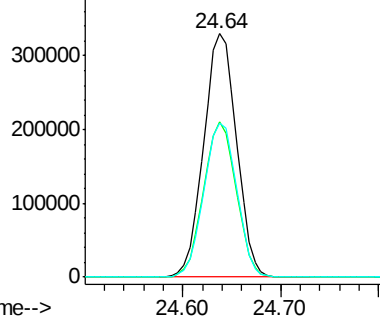
225 100

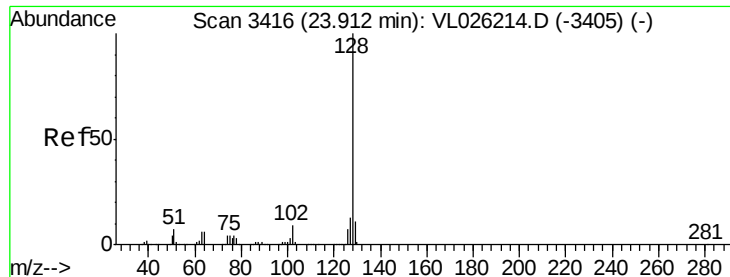
223 63.3 50.2 75.2

227 63.7 50.8 76.2



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





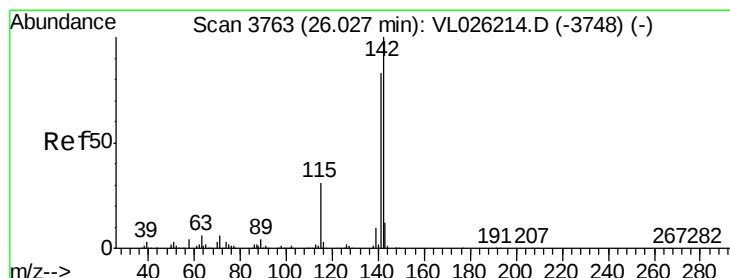
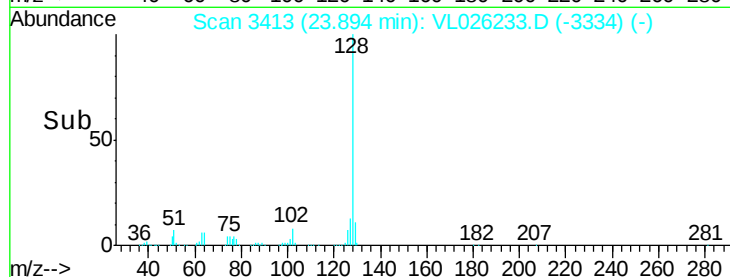
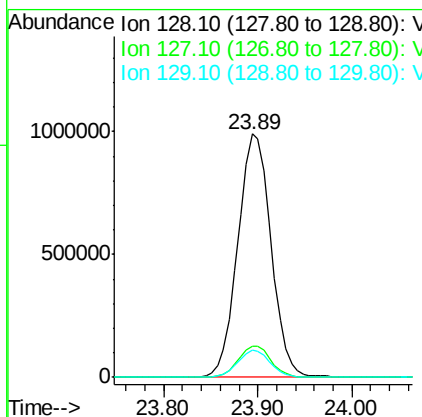
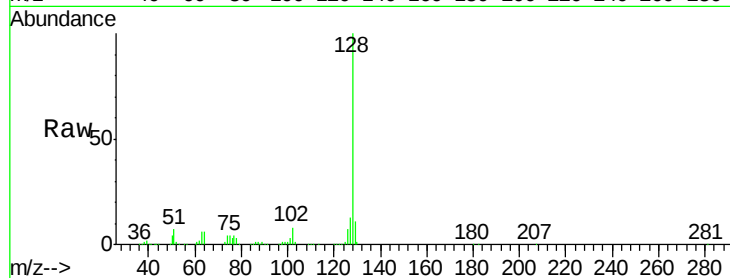
#79
Naphthalene
Concen: 9.19 ppbv
RT: 23.89 min Scan# 3413
Delta R.T. -0.02 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.4	15.6
129	11.2	8.8	13.2

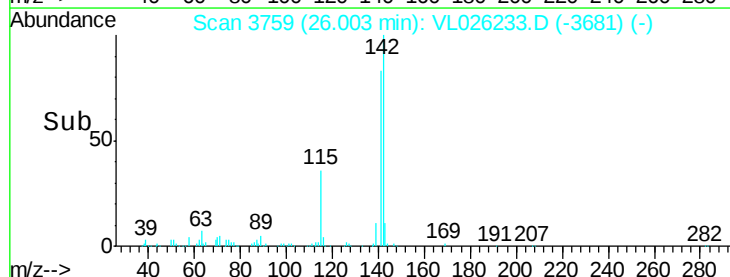
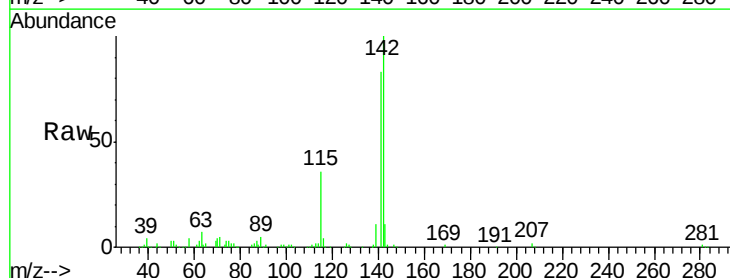
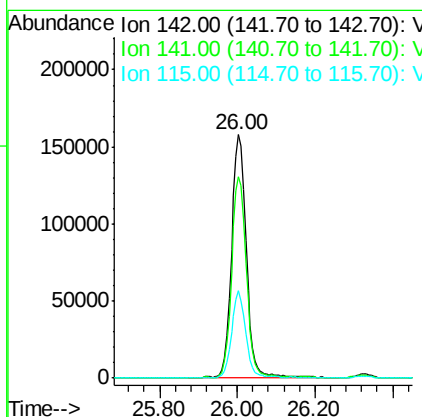
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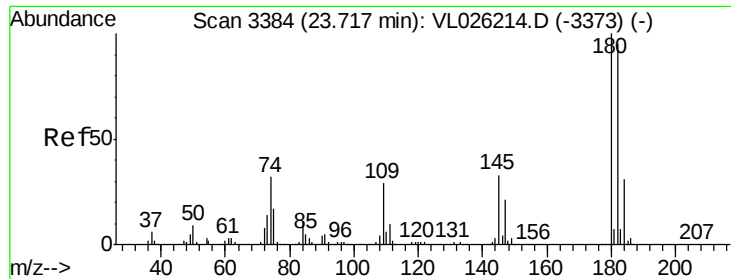
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#80
Naphthalene, 2-methyl-
Concen: 8.75 ppbv
RT: 26.00 min Scan# 3759
Delta R.T. -0.02 min
Lab File: VL026233.D
Acq: 21 Oct 2015 9:44

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.6	66.5	99.7
115	34.3	24.2	36.4





#81
 1,2,4-Trichlorobenzene
 Concen: 8.70 ppbv
 RT: 23.70 min Scan# 3381
 Delta R.T. -0.02 min
 Lab File: VL026233.D
 Acq: 21 Oct 2015 9:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.7	115.1
184	30.3	24.2	36.2

Manual Integrations
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