

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL020916\
 Data File : VL026823.D
 Acq On : 9 Feb 2016 16:54
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 2/11/2016 1:22:48 PM

Quant Time: Feb 10 03:17:38 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL020916AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10
 QLast Update : Wed Feb 10 02:03:29 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.70	49	1683263	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.38	114	4359025	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.80	117	4431567m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.35	95	2997558	7.97	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	79.70%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.67	85	3580299	6.70	ppbv	100
3) Chlorodifluoromethane	3.60	51	1765712	5.46	ppbv	100
4) Chloromethane	3.78	50	1007654	10.08	ppbv	100
5) Vinyl Chloride	3.92	62	1126377	9.50	ppbv	100
6) Bromomethane	4.17	94	961907	9.42	ppbv	100
7) Chloroethane	4.27	64	513613	9.42	ppbv	100
8) Dichlorotetrafluoroethane	3.84	85	3075006	7.86	ppbv	100
9) Propene	3.62	41	741444	11.20	ppbv	100
10) Heptane	9.40	43	2486447	9.80	ppbv	100
11) Trichlorofluoromethane	4.73	101	4128167	6.71	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	5.34	101	2962366	8.20	ppbv	100
13) Ethanol	4.36	45	130533	8.58	ppbv	100
14) Bromoethene	4.48	108	1100758	9.43	ppbv	100
15) Acetone	4.64	43	1821825	4.60	ppbv	100
16) 1,3-Butadiene	4.00	39	884595	8.16	ppbv	100
17) tert-Butyl alcohol	5.17	59	1733089	8.16	ppbv	100
18) 1,1-Dichloroethene	5.12	96	1257612	9.06	ppbv	100
19) Isopropyl Alcohol	4.79	45	937968	8.99	ppbv	100
20) Methylene Chloride	5.18	84	1128198	8.77	ppbv	100
21) Allyl Chloride	5.26	41	1434190	8.56	ppbv	100
22) trans-1,2-Dichloroethene	5.81	96	1155476	8.73	ppbv	100
23) Vinyl Acetate	6.03	43	3278396	7.79	ppbv	100
24) 1,1-Dichloroethane	5.95	63	2432571	8.23	ppbv	100
25) Ethyl Acetate	6.71	43	3747409	9.61	ppbv	100
26) Hexane	6.70	57	1996745	10.29	ppbv	100
27) Carbon Disulfide	5.43	76	3379245	8.74	ppbv	100
28) Methyl tert-Butyl Ether	5.99	73	3235858	7.48	ppbv	100
29) Chloroform	6.79	83	2960626	6.82	ppbv	100
30) Cyclohexane	8.33	84	1655653	8.28	ppbv	100
31) cis-1,2-Dichloroethene	6.56	61	1734689	8.23	ppbv	100
32) 1,1,1-Trichloroethane	7.64	97	3037040	6.14	ppbv	100
34) 2-Butanone	6.24	43	2191517	10.81	ppbv	100
35) Carbon Tetrachloride	8.21	117	3319748	7.67	ppbv	100
36) Benzene	8.07	78	3708707	10.15	ppbv	100
37) 1,2-Dichloroethane	7.42	62	2246539	7.15	ppbv	100
38) Trichloroethene	9.12	130	1743555	10.10	ppbv	100
39) 1,2-Dichloropropane	8.88	63	1315769	10.71	ppbv	100
40) 1,4-Dioxane	9.16	88	308490	10.26	ppbv	100
41) Tetrahydrofuran	7.17	42	1220840	13.33	ppbv	100
42) Bromodichloromethane	9.07	83	3142073	7.71	ppbv	100
43) Methyl Methacrylate	9.31	69	1416130	10.07	ppbv	100

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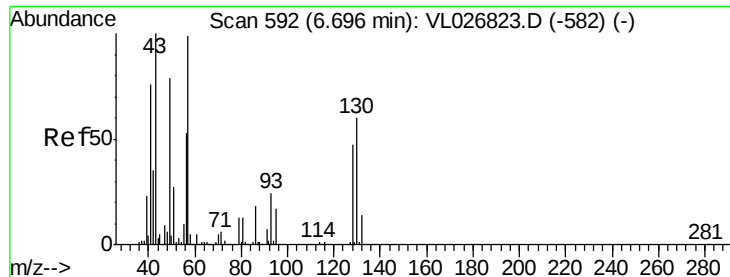
Manual Integrations
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 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL020916AIR.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.13	57	6403801	11.02	ppbv	100
45) t-1,3-Dichloropropene	10.70	75	2045947	8.40	ppbv	100
46) cis-1,3-Dichloropropene	10.07	75	2405851	9.23	ppbv	100
47) 1,1,2-Trichloroethane	10.93	97	1518853	7.82	ppbv	100
48) Dibromochloromethane	11.85	129	2692186	7.36	ppbv	100
49) Bromoform	14.87	173	2119123	6.74	ppbv	100
50) 4-Methyl-2-Pentanone	10.14	43	2889822	10.25	ppbv	100
51) 2-Hexanone	11.66	43	2647118	9.75	ppbv	100
52) Tetrachloroethene	12.85	164	1543070	7.52	ppbv	100
53) Toluene	11.29	91	4492608	8.37	ppbv	100
54) 1,2-Dibromoethane	12.19	107	2337724	7.11	ppbv	100
56) 1,1,1,2-Tetrachloroethane	13.84	131	2023694	8.64	ppbv	100
57) Chlorobenzene	13.87	112	3668155	8.18	ppbv	100
58) Ethyl Benzene	14.47	91	5909568	8.14	ppbv	100
59) m/p-Xylene	14.77	91	9744044	15.33	ppbv	100
60) o-Xylene	15.55	91	5358882	7.63	ppbv	100
61) Styrene	15.37	104	2022934	8.01	ppbv	100
62) Isopropylbenzene	16.60	105	6394790	6.98	ppbv	100
63) 1,1,2,2-Tetrachloroethane	15.54	83	3543367	7.81	ppbv	100
64) n-propylbenzene	17.58	120	1654545	6.44	ppbv	100
65) tert-Butylbenzene	18.87	119	6208664	6.70	ppbv	100
66) Benzyl Chloride	19.16	91	2265231	6.48	ppbv	100
67) sec-Butylbenzene	19.47	105	7852813	5.79	ppbv	100
69) p-Isopropyltoluene	19.85	119	6657181	6.08	ppbv	100
70) n-Butylbenzene	20.81	91	6358617	5.58	ppbv	100
71) 2-Chlorotoluene	17.49	91	4666501	6.55	ppbv	100
72) 4-Ethyltoluene	17.88	105	5218742	6.53	ppbv	100
73) 1,3,5-Trimethylbenzene	18.05	105	4987599	6.35	ppbv	100
74) 1,2,4-Trimethylbenzene	18.89	105	5575110	6.41	ppbv	100
75) 1,3-Dichlorobenzene	19.18	146	3245325	5.68	ppbv	100
76) 1,4-Dichlorobenzene	19.33	146	3230899	5.64	ppbv	100
77) 1,2-Dichlorobenzene	20.08	146	3069751	5.18	ppbv	100
78) Hexachloro-1,3-Butadiene	24.72	225	1256954	4.33	ppbv	100
79) Naphthalene	23.98	128	2479163	3.30	ppbv	100
80) Naphthalene, 2-methyl-	26.09	142	945965	7.27	ppbv	100
81) 1,2,4-Trichlorobenzene	23.78	180	1330697	4.03	ppbv	100

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.70 min Scan# 592

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 49 Resp: 1683263

Ion Ratio Lower Upper

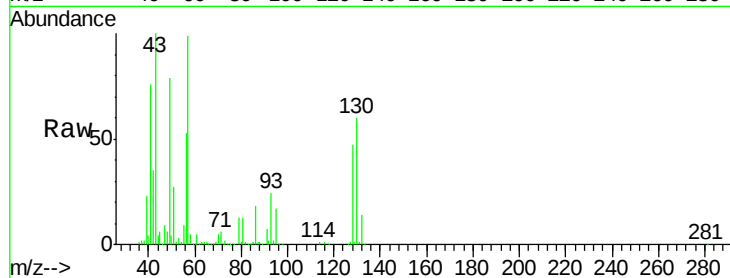
49 100

128 59.4 29.7 89.1

130 76.5 38.3 114.8

Manual Integrations
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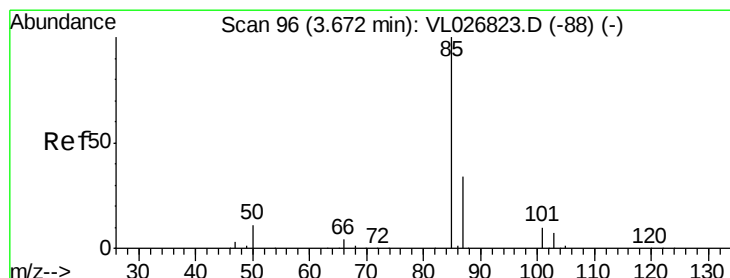
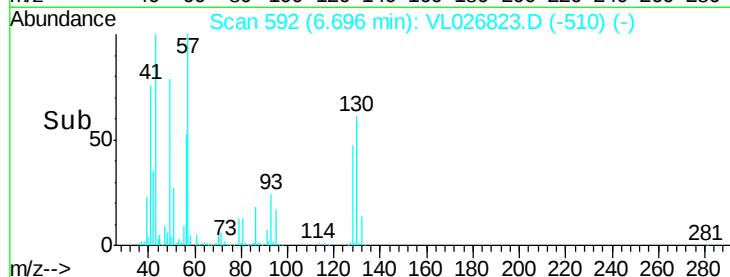
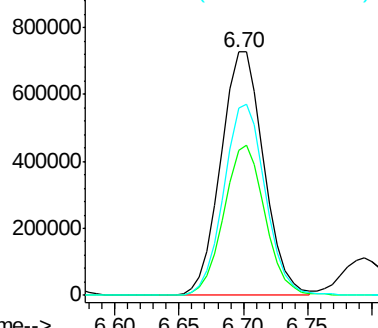
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 6.70 ppbv

RT: 3.67 min Scan# 96

Delta R.T. 0.00 min

Lab File: VL026823.D

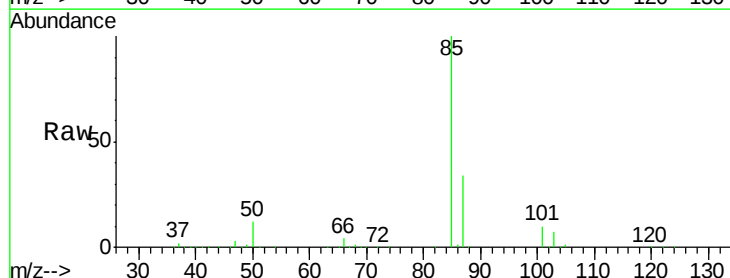
Acq: 9 Feb 2016 16:54

Tgt Ion: 85 Resp: 3580299

Ion Ratio Lower Upper

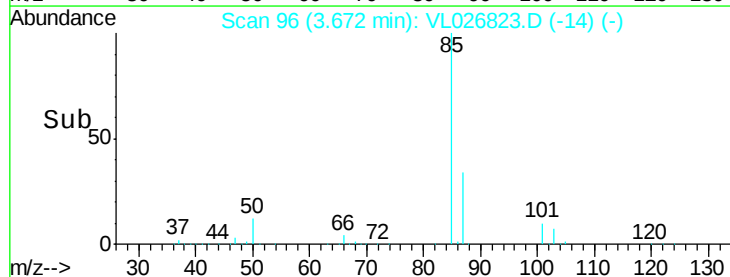
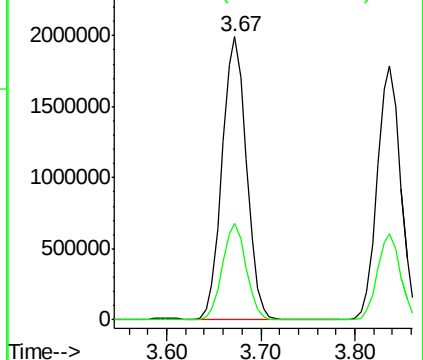
85 100

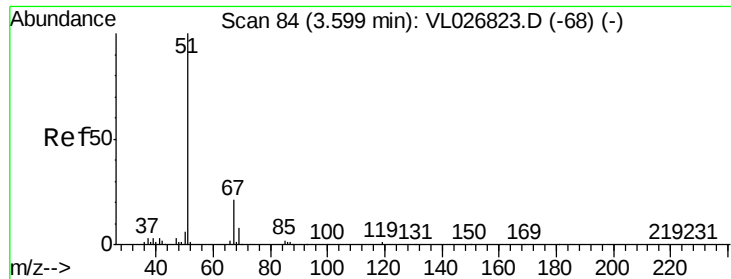
87 34.1 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 5.46 ppbv

RT: 3.60 min Scan# 84

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 51 Resp: 1765712

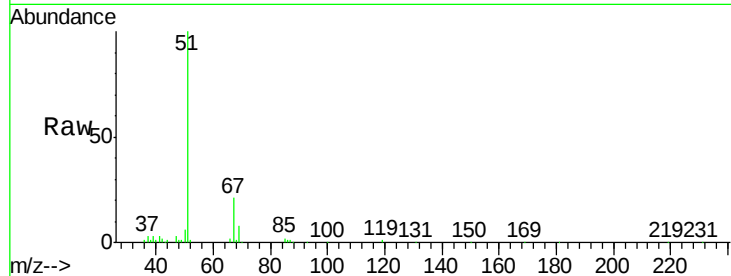
Ion Ratio Lower Upper

51 100

67 20.5 16.4 24.6

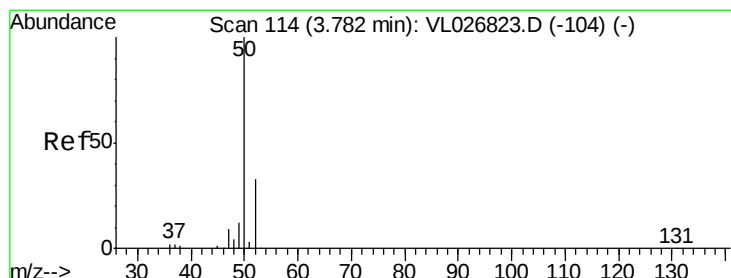
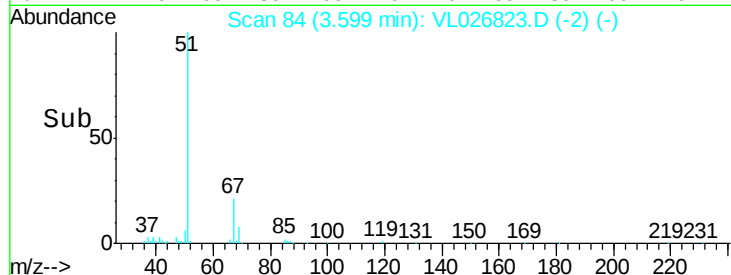
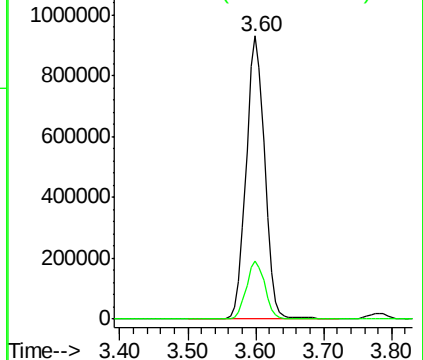
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 10.08 ppbv

RT: 3.78 min Scan# 114

Delta R.T. 0.00 min

Lab File: VL026823.D

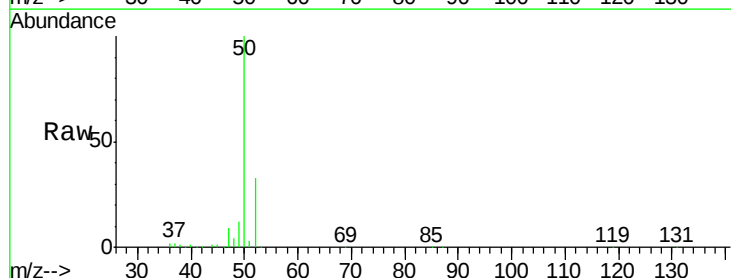
Acq: 9 Feb 2016 16:54

Tgt Ion: 50 Resp: 1007654

Ion Ratio Lower Upper

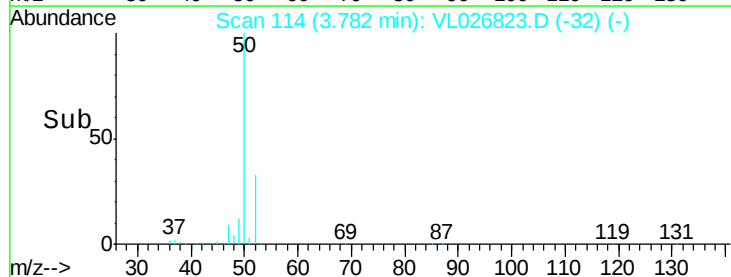
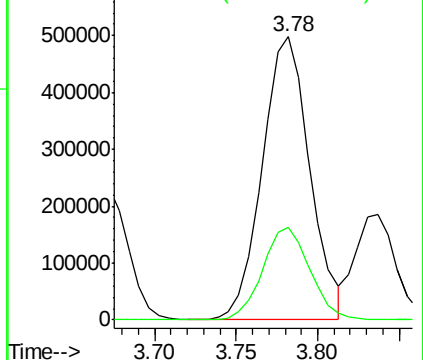
50 100

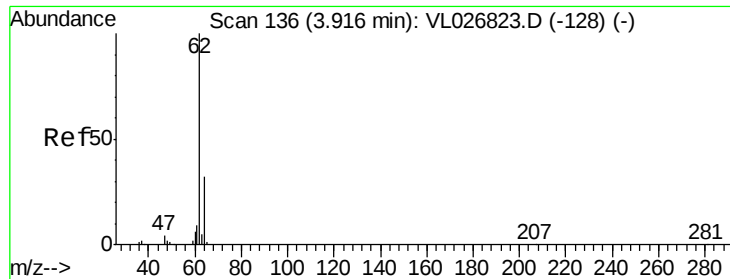
52 32.9 26.3 39.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.50 ppbv

RT: 3.92 min Scan# 136

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 62 Resp: 1126377

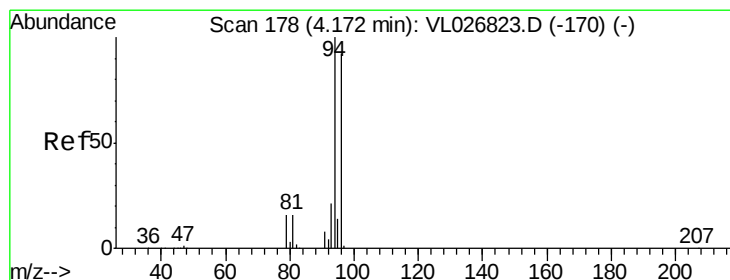
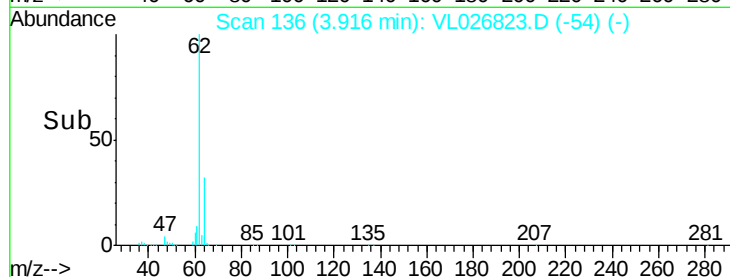
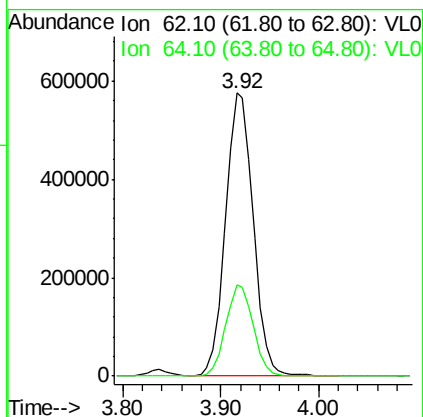
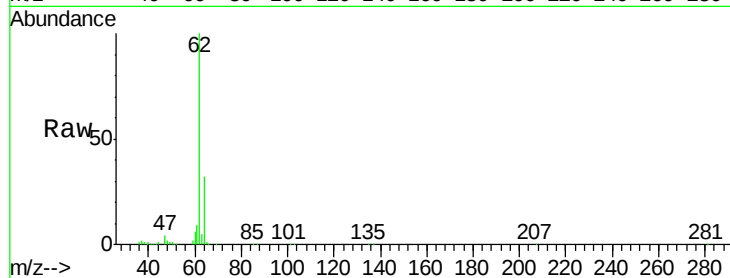
Ion Ratio Lower Upper

62 100

64 32.2 25.8 38.6

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#6

Bromomethane

Concen: 9.42 ppbv

RT: 4.17 min Scan# 178

Delta R.T. 0.00 min

Lab File: VL026823.D

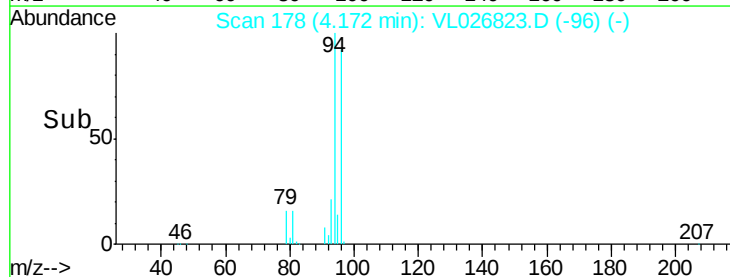
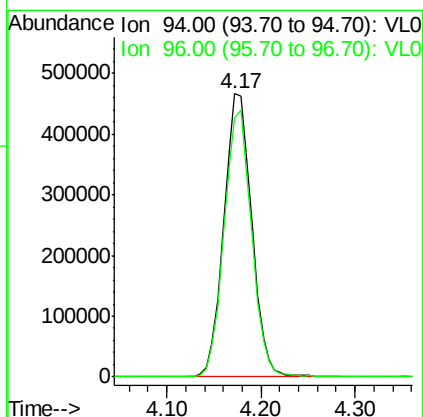
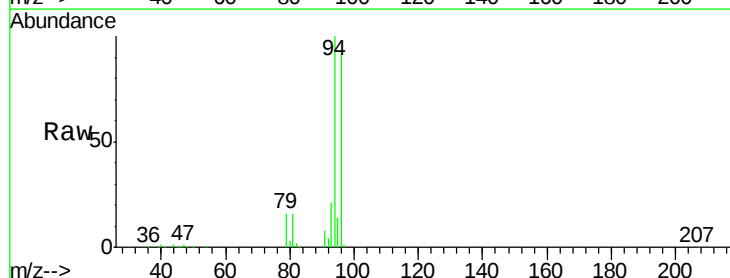
Acq: 9 Feb 2016 16:54

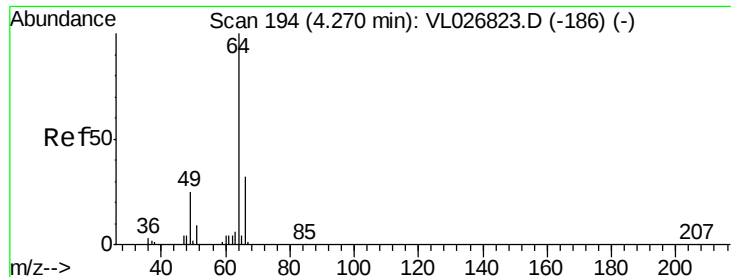
Tgt Ion: 94 Resp: 961907

Ion Ratio Lower Upper

94 100

96 91.5 73.2 109.8





#7

Chloroethane

Concen: 9.42 ppbv

RT: 4.27 min Scan# 194

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 64 Resp: 513613

Ion Ratio Lower Upper

64 100

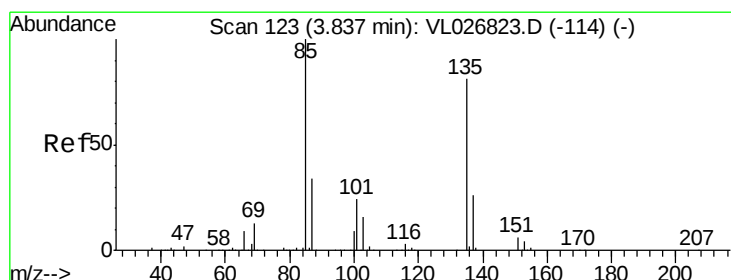
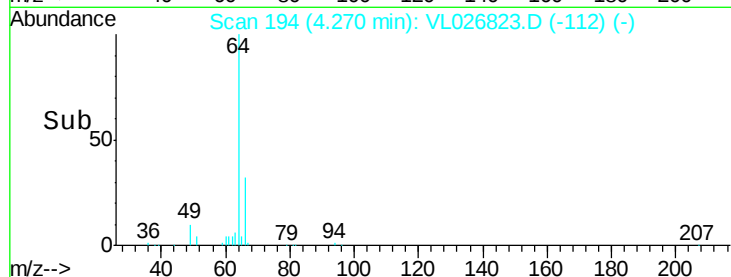
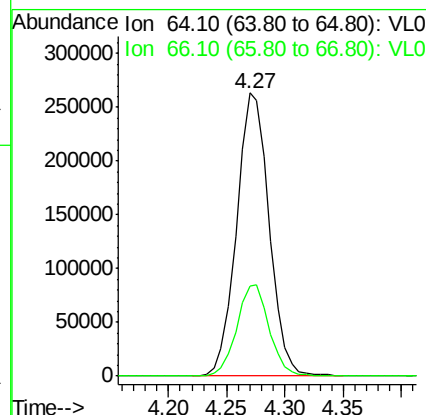
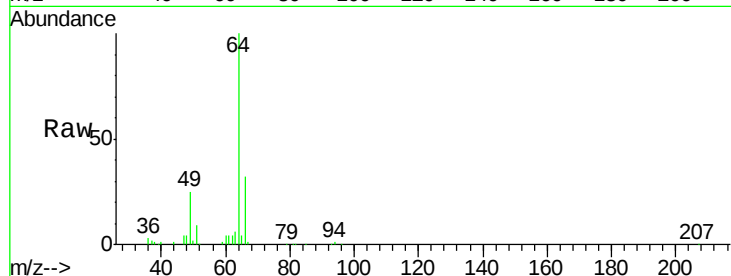
66 31.7 25.4 38.0

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 7.86 ppbv

RT: 3.84 min Scan# 123

Delta R.T. 0.00 min

Lab File: VL026823.D

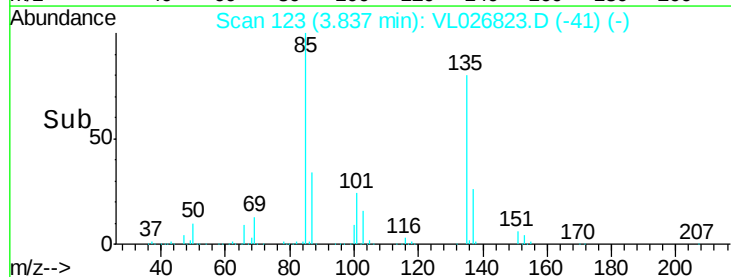
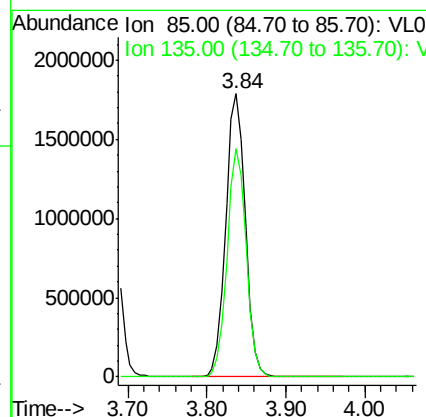
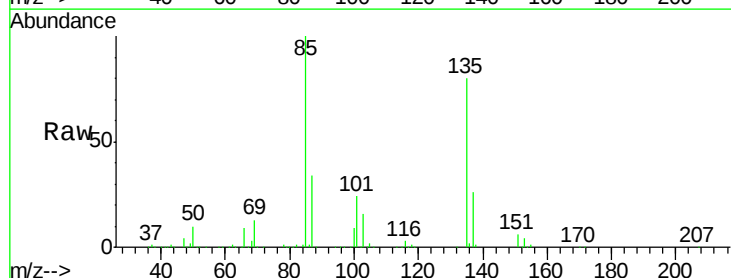
Acq: 9 Feb 2016 16:54

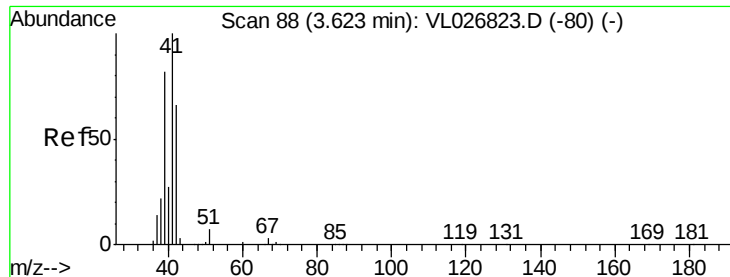
Tgt Ion: 85 Resp: 3075006

Ion Ratio Lower Upper

85 100

135 79.0 63.2 94.8





#9

Propene

Concen: 11.20 ppbv

RT: 3.62 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 41 Resp: 741444

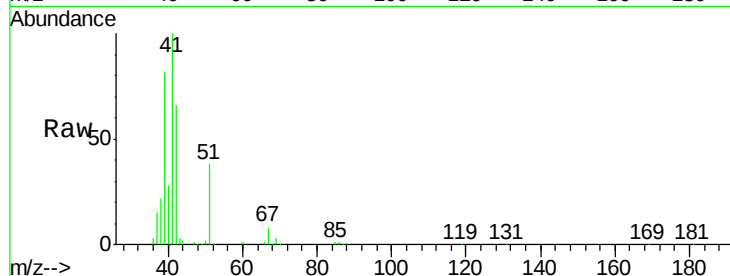
Ion Ratio Lower Upper

41 100

42 66.0 52.8 79.2

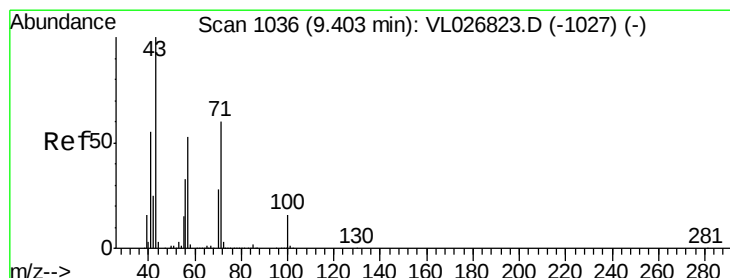
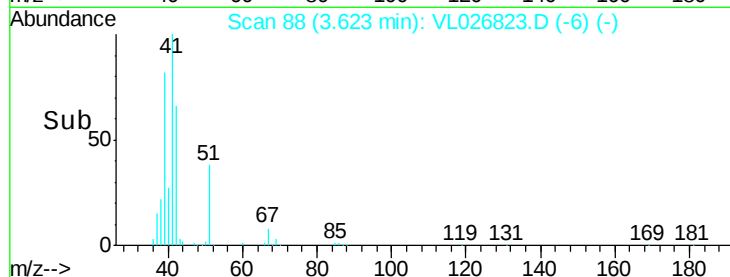
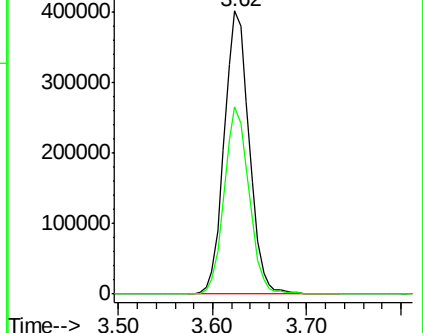
Manual Integrations
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 9.80 ppbv

RT: 9.40 min Scan# 1036

Delta R.T. 0.00 min

Lab File: VL026823.D

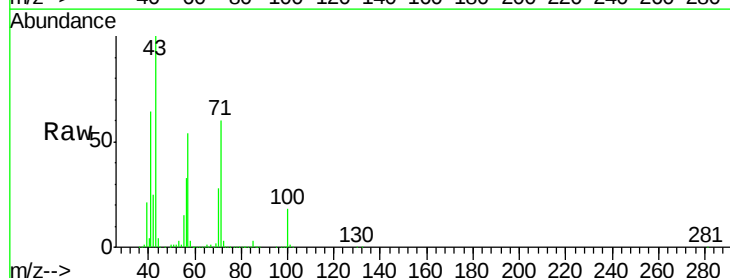
Acq: 9 Feb 2016 16:54

Tgt Ion: 43 Resp: 2486447

Ion Ratio Lower Upper

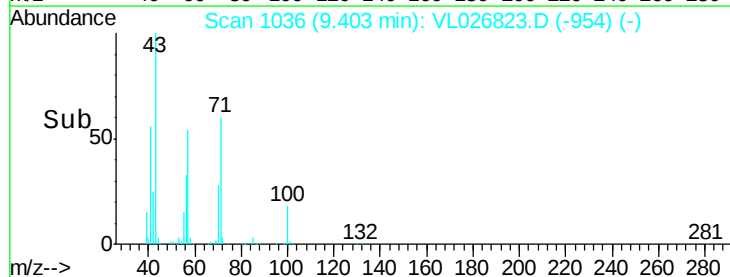
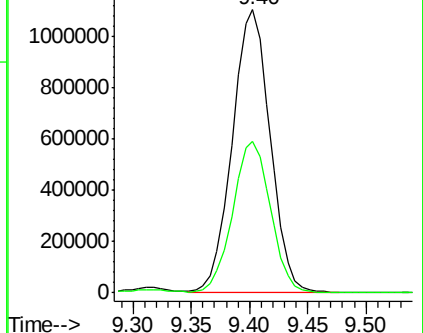
43 100

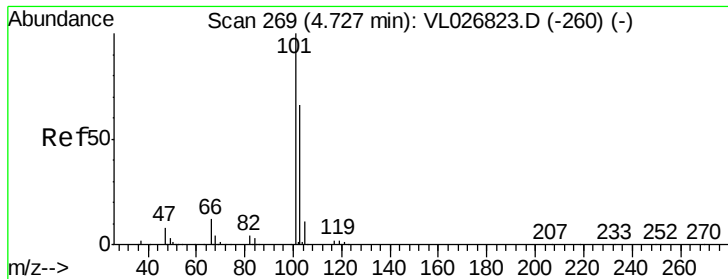
57 55.0 44.0 66.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 6.71 ppbv

RT: 4.73 min Scan# 269

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

Tot Ion:101 Resp: 4128167

Ion Ratio Lower Upper

101 100

103 65.9 52.7 79.1

Instrument :

MSVOA_L

ClientSampleId :

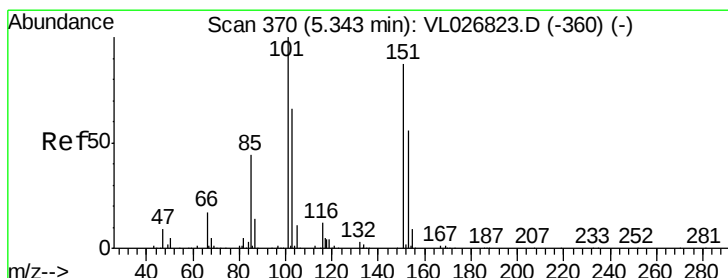
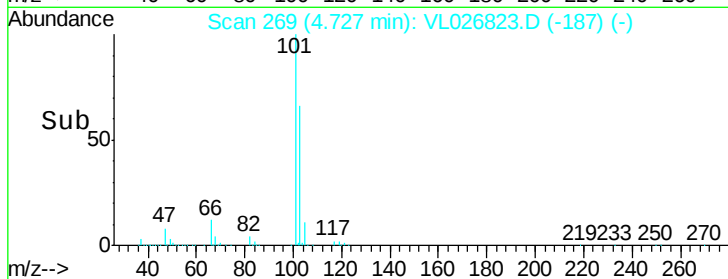
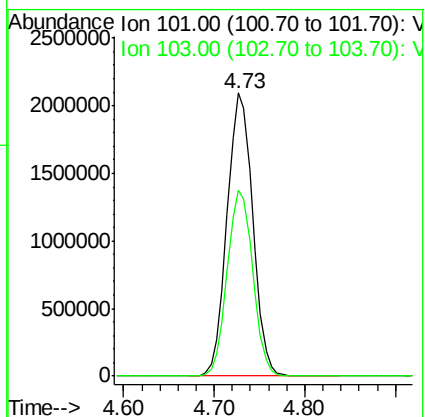
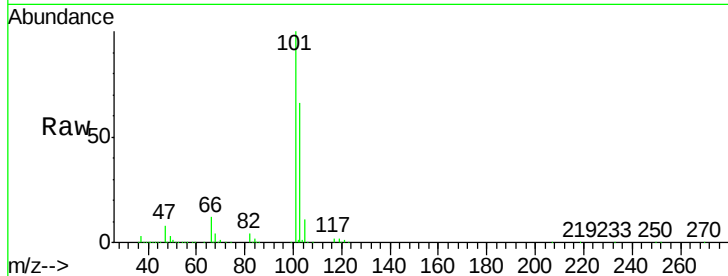
VSTDICCC010

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.20 ppbv

RT: 5.34 min Scan# 370

Delta R.T. 0.00 min

Lab File: VL026823.D

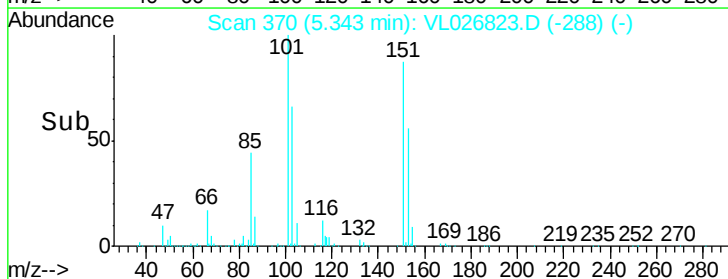
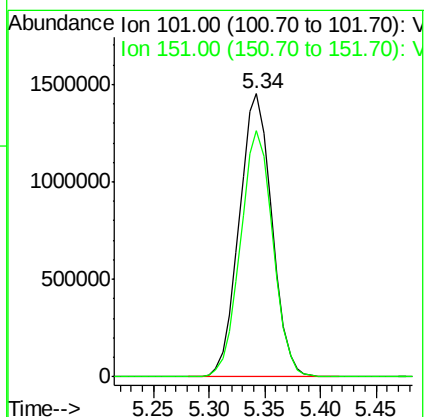
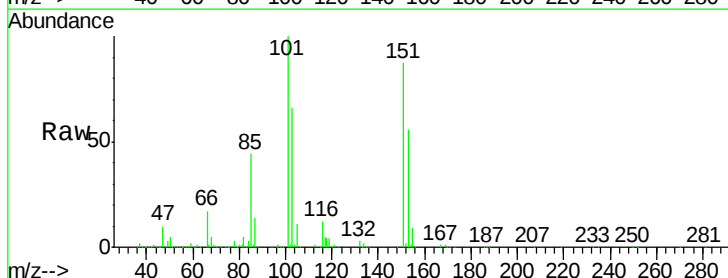
Acq: 9 Feb 2016 16:54

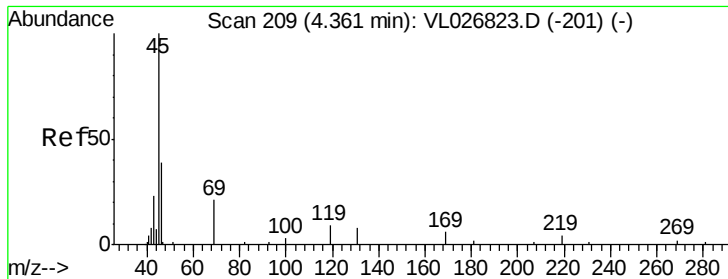
Tgt Ion:101 Resp: 2962366

Ion Ratio Lower Upper

101 100

151 86.7 69.4 104.0





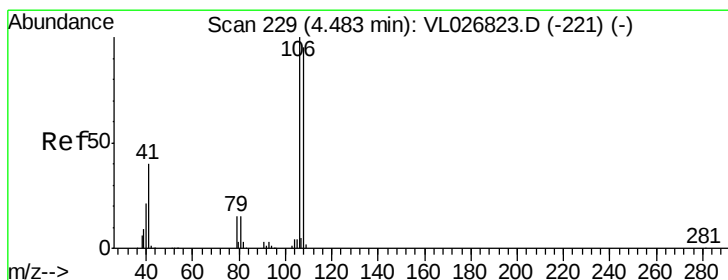
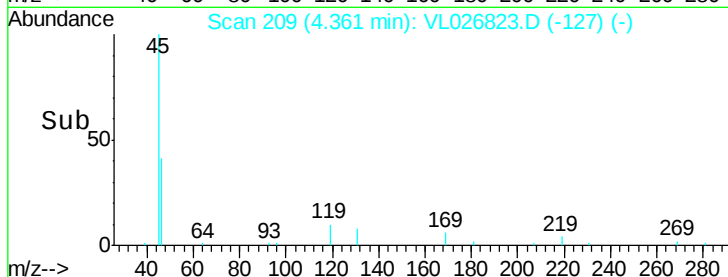
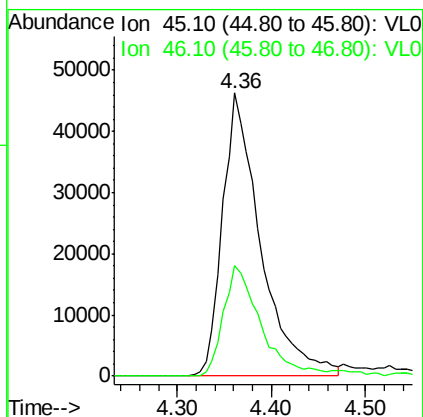
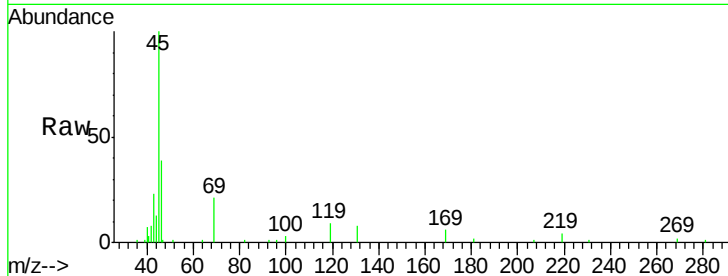
#13
Ethanol
Concen: 8.58 ppbv
RT: 4.36 min Scan# 209
Delta R.T. 0.00 min
Lab File: VL026823.D
Acq: 9 Feb 2016 16:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 45 Resp: 130533
Ion Ratio Lower Upper
45 100
46 39.6 15.8 63.4

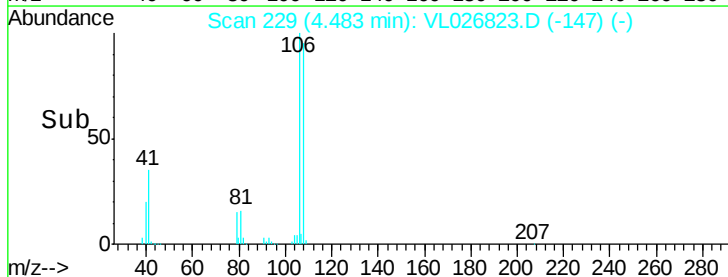
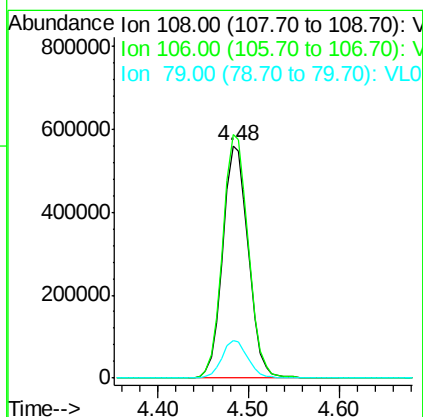
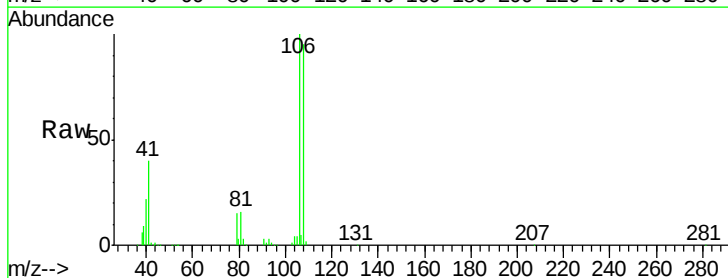
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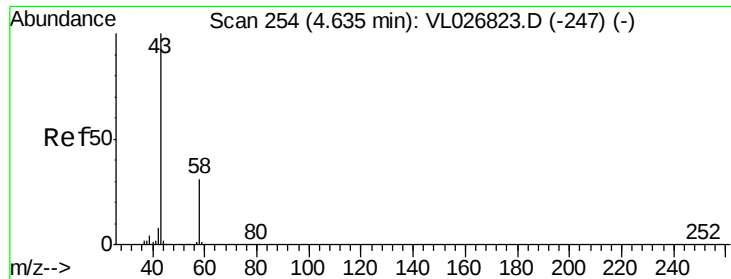
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#14
Bromoethene
Concen: 9.43 ppbv
RT: 4.48 min Scan# 229
Delta R.T. 0.00 min
Lab File: VL026823.D
Acq: 9 Feb 2016 16:54

Tgt Ion: 108 Resp: 1100758
Ion Ratio Lower Upper
108 100
106 105.7 84.6 126.8
79 16.7 13.4 20.0





#15

Acetone

Concen: 4.60 ppbv

RT: 4.64 min Scan# 254

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 1821825

Ion Ratio Lower Upper

43 100

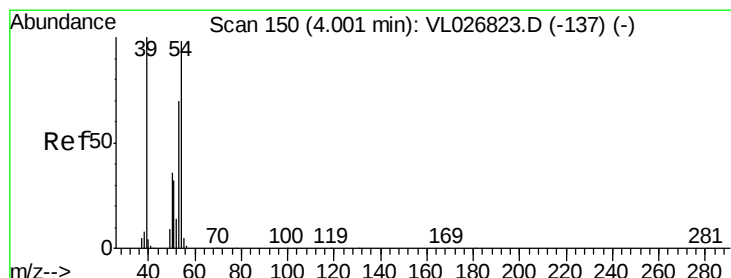
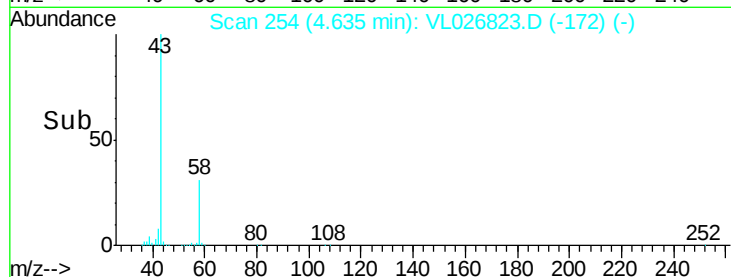
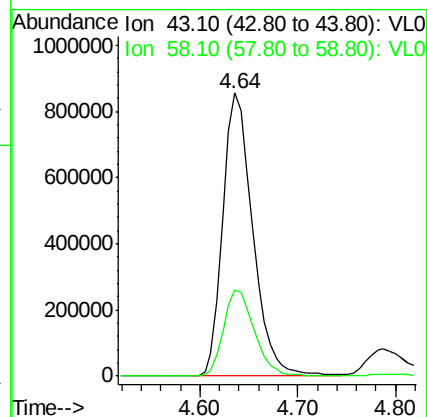
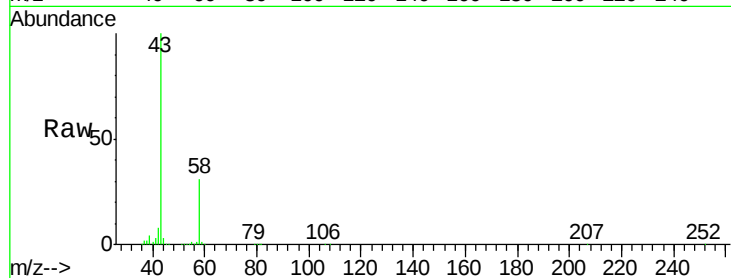
58 31.5 25.2 37.8

Manual Integrations

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#16

1,3-Butadiene

Concen: 8.16 ppbv

RT: 4.00 min Scan# 150

Delta R.T. 0.00 min

Lab File: VL026823.D

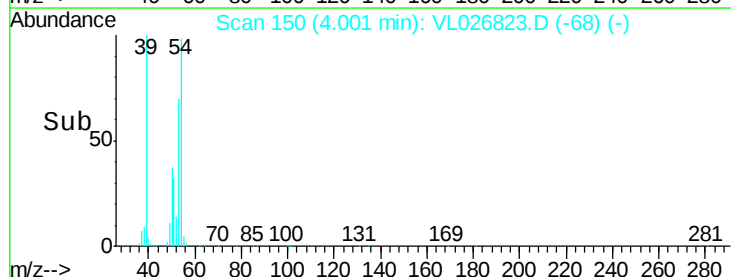
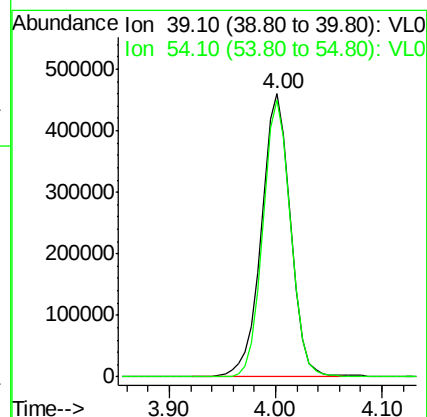
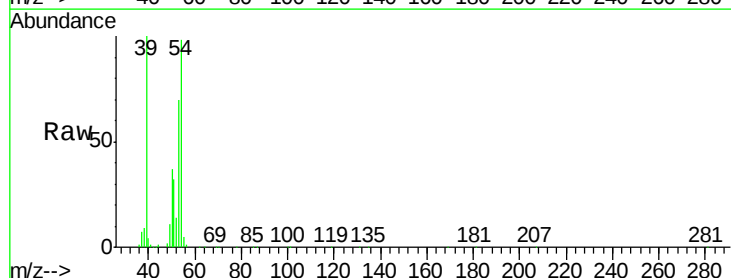
Acq: 9 Feb 2016 16:54

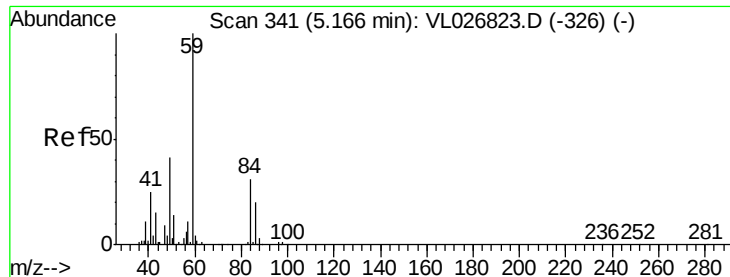
Tgt Ion: 39 Resp: 884595

Ion Ratio Lower Upper

39 100

54 93.4 74.7 112.1





#17

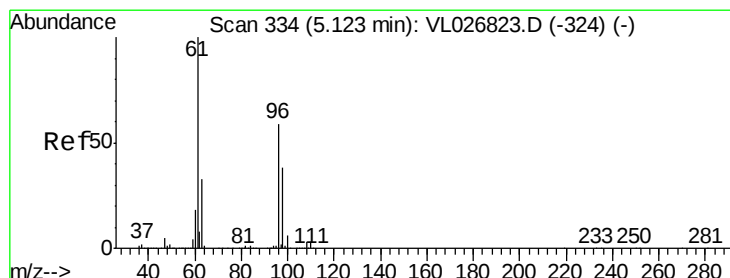
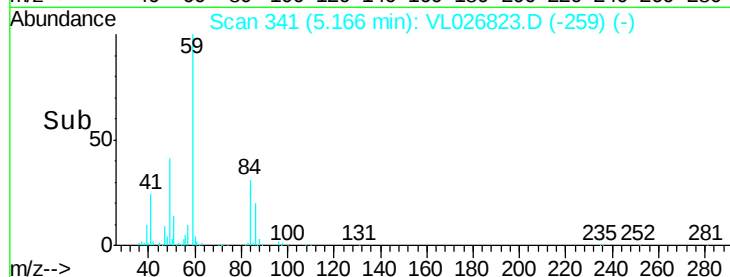
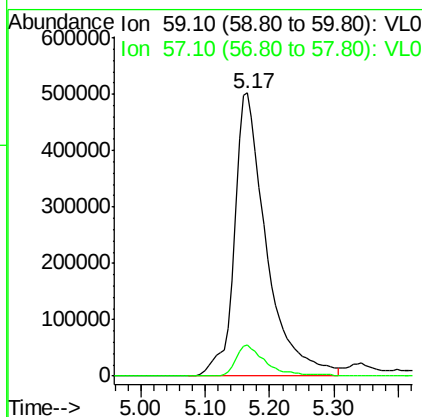
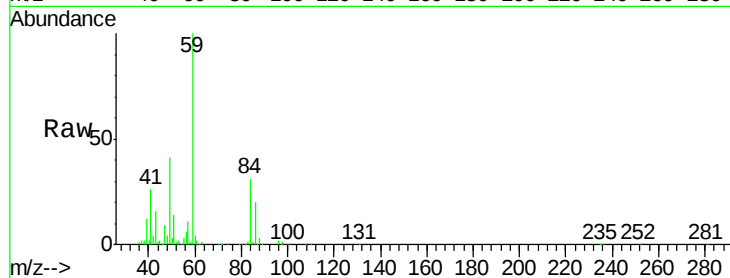
tert-Butyl alcohol
Concen: 8.16 ppbv
RT: 5.17 min Scan# 341
Delta R.T. 0.00 min
Lab File: VL026823.D
Acq: 9 Feb 2016 16:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 59 Resp: 1733089
Ion Ratio Lower Upper
59 100
57 10.6 8.5 12.7

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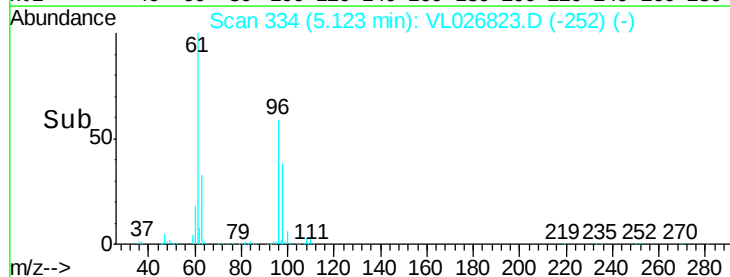
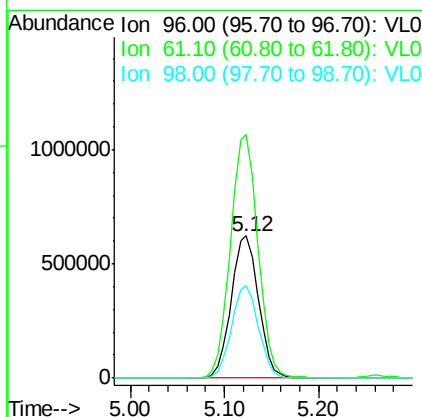
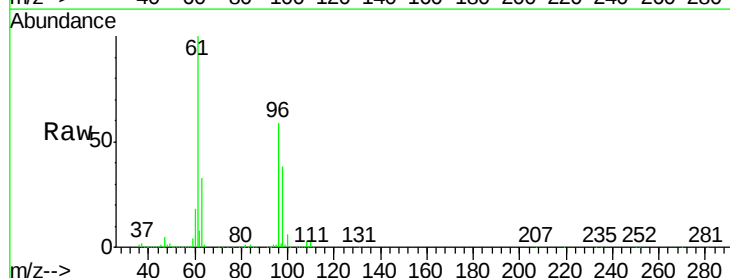
MMDadoda
2/11/2016 1:22:48 PM

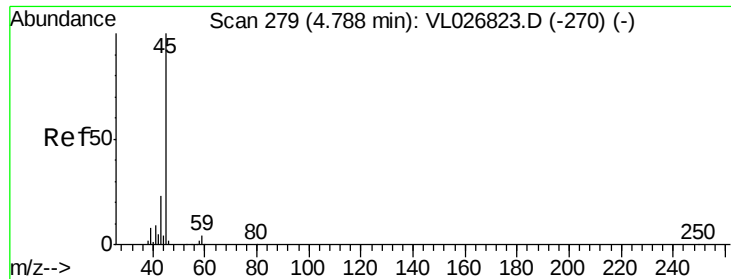


#18

1,1-Dichloroethene
Concen: 9.06 ppbv
RT: 5.12 min Scan# 334
Delta R.T. 0.00 min
Lab File: VL026823.D
Acq: 9 Feb 2016 16:54

Tgt Ion: 96 Resp: 1257612
Ion Ratio Lower Upper
96 100
61 170.9 136.7 205.1
98 65.1 52.1 78.1





#19

Isopropyl Alcohol

Concen: 8.99 ppbv

RT: 4.79 min Scan# 279

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

Tot Ion: 45 Resp: 937968

Ion Ratio Lower Upper

45 100

58 2.7 2.2 3.2

Instrument :

MSVOA_L

ClientSampleId :

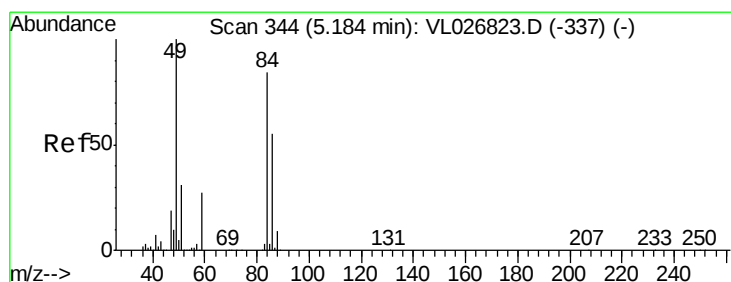
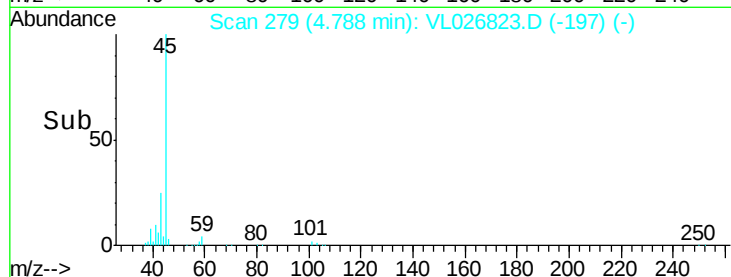
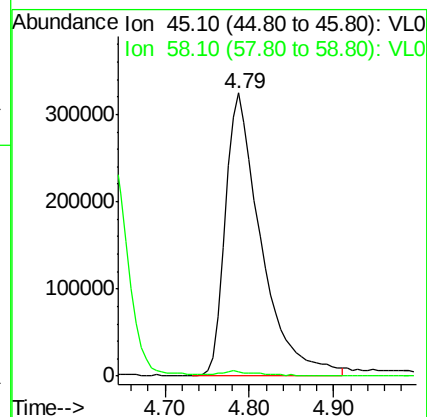
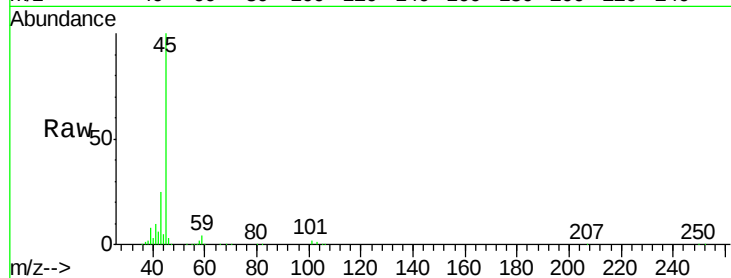
VSTDICCC010

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#20

Methylene Chloride

Concen: 8.77 ppbv

RT: 5.18 min Scan# 344

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

Tgt Ion: 84 Resp: 1128198

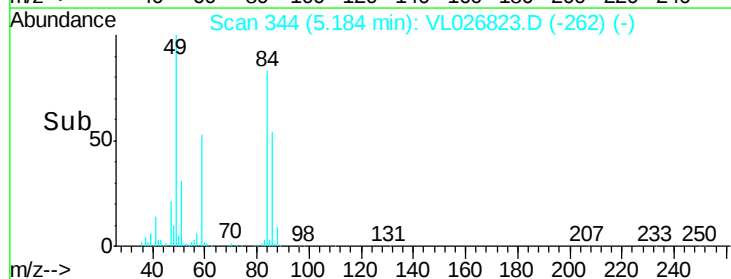
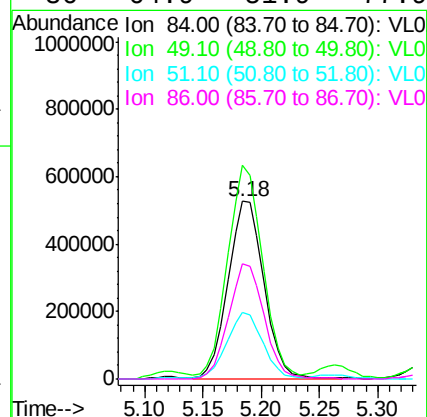
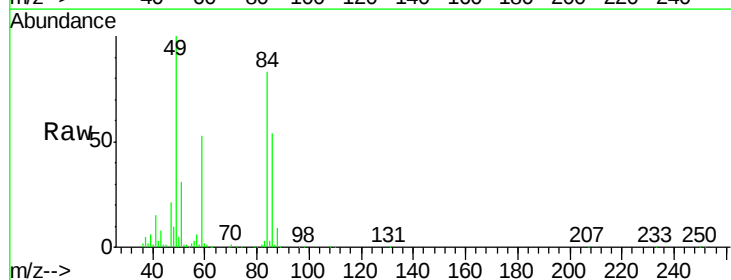
Ion Ratio Lower Upper

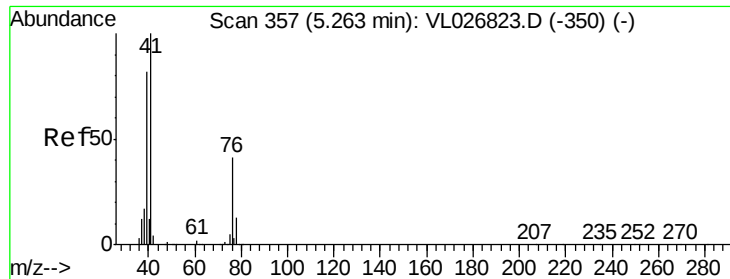
84 100

49 118.6 94.9 142.3

51 36.9 29.5 44.3

86 64.9 51.9 77.9





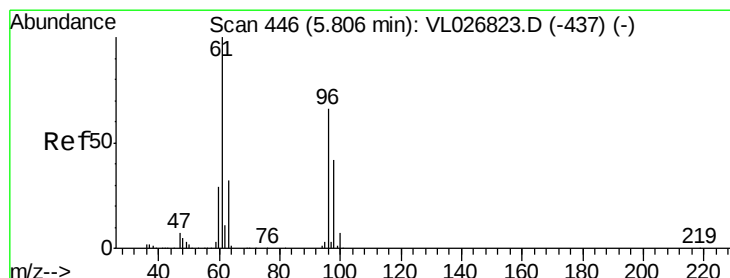
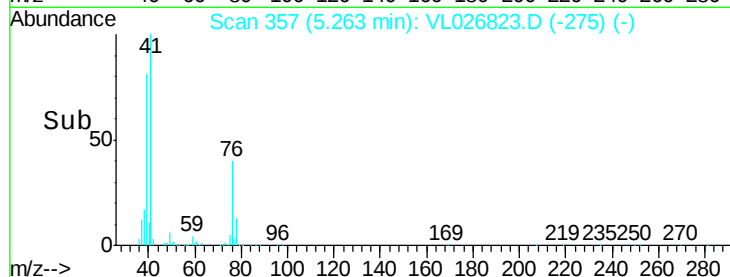
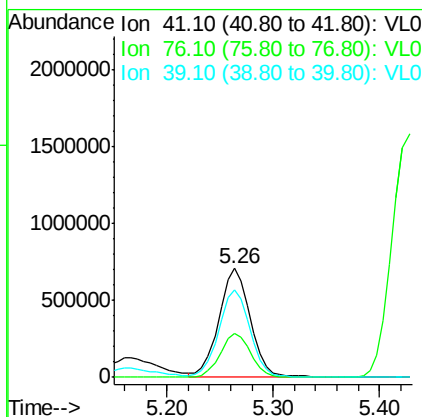
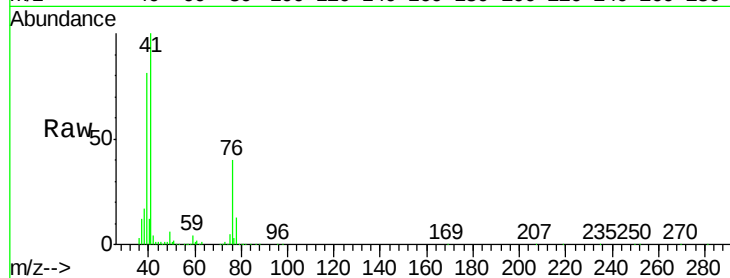
#21
Allvl Chloride
Concen: 8.56 ppbv
RT: 5.26 min Scan# 357
Delta R.T. 0.00 min
Lab File: VL026823.D
Acq: 9 Feb 2016 16:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 41 Resp: 1434190
Ion Ratio Lower Upper
41 100
76 40.0 32.0 48.0
39 80.7 64.6 96.8

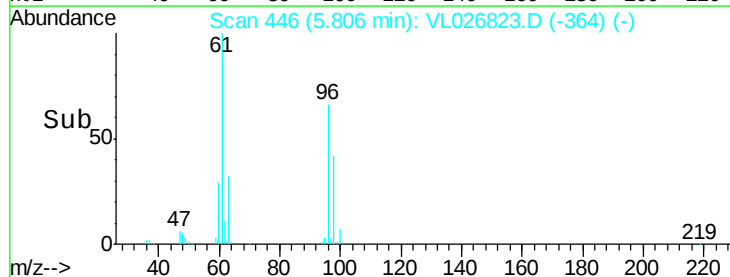
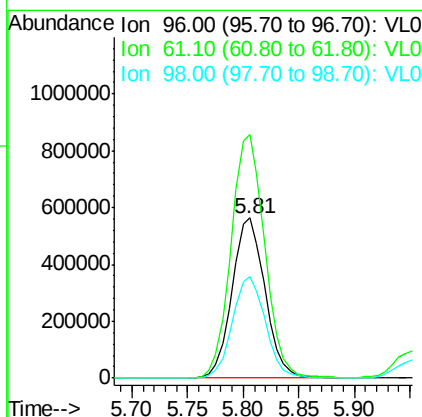
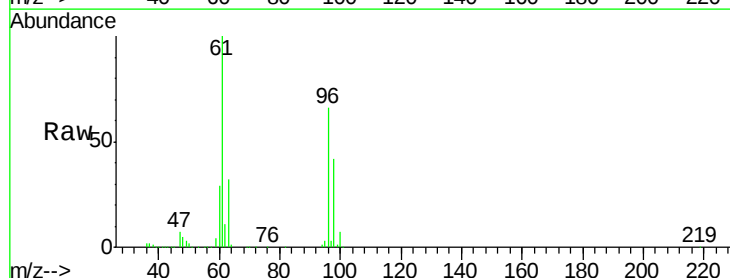
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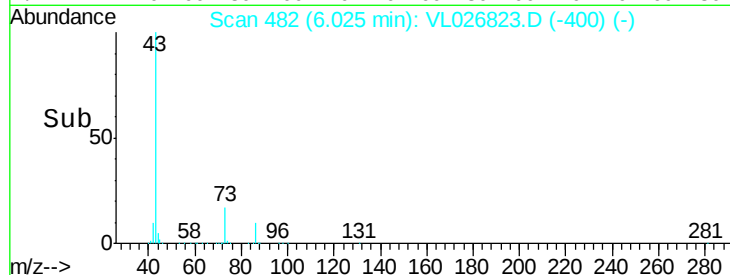
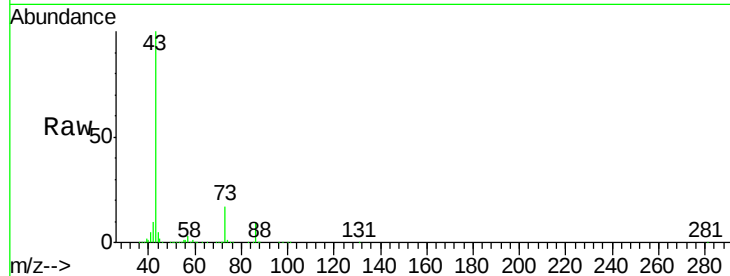
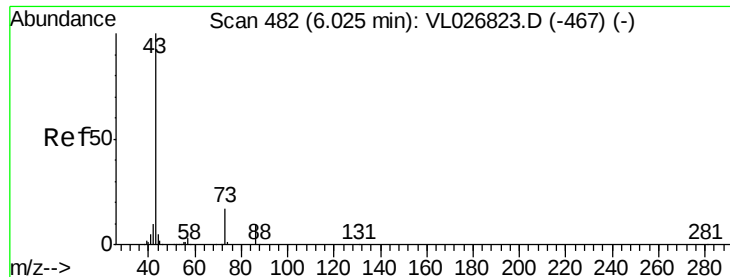
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#22
trans-1,2-Dichloroethene
Concen: 8.73 ppbv
RT: 5.81 min Scan# 446
Delta R.T. 0.00 min
Lab File: VL026823.D
Acq: 9 Feb 2016 16:54

Tgt Ion: 96 Resp: 1155476
Ion Ratio Lower Upper
96 100
61 152.0 121.6 182.4
98 63.3 50.6 76.0





#23

Vinyl Acetate

Concen: 7.79 ppbv

RT: 6.03 min Scan# 482

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

Tot Ion: 43 Resp: 3278396

Ion Ratio Lower Upper

43 100

86 9.6 7.7 11.5

42 9.8 7.8 11.8

44 4.9 3.9 5.9

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Manual Integrations

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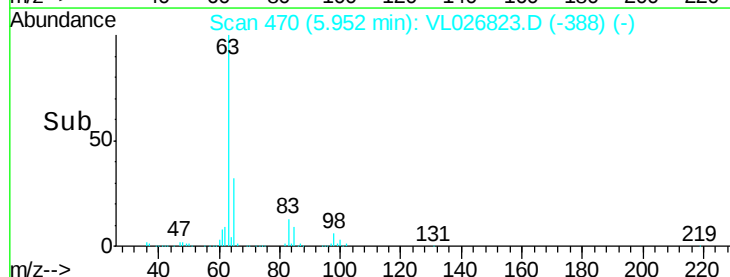
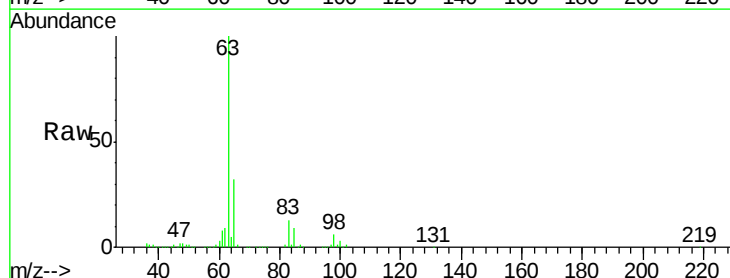
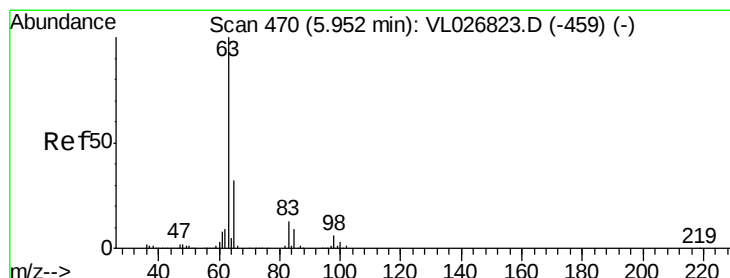
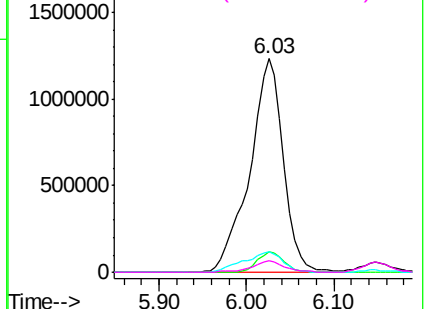
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Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.23 ppbv

RT: 5.95 min Scan# 470

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

Tgt Ion: 63 Resp: 2432571

Ion Ratio Lower Upper

63 100

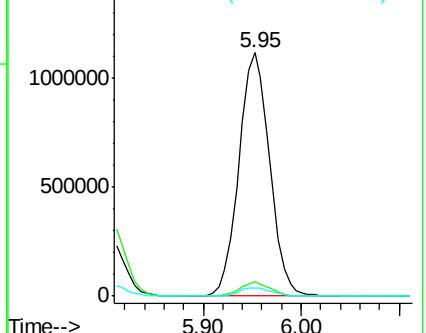
98 5.8 2.9 8.7

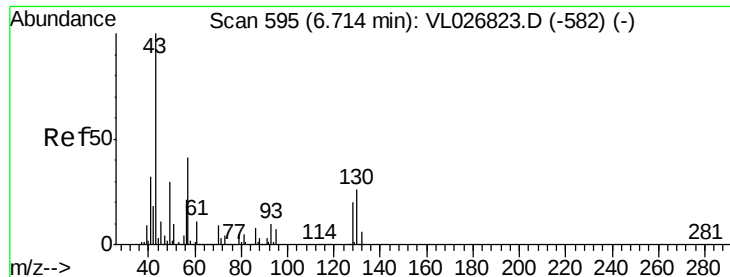
100 3.4 1.7 5.1

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: 9.61 ppbv

RT: 6.71 min Scan# 595

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 3747409

Ion Ratio Lower Upper

43 100

45 9.8 7.8 11.8

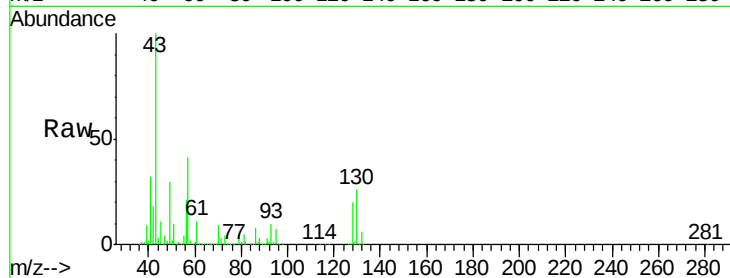
61 9.9 7.9 11.9

70 8.6 6.9 10.3

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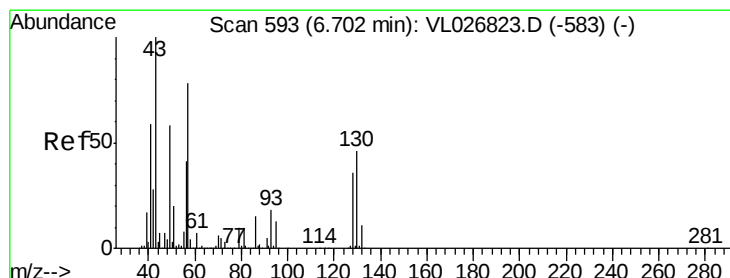
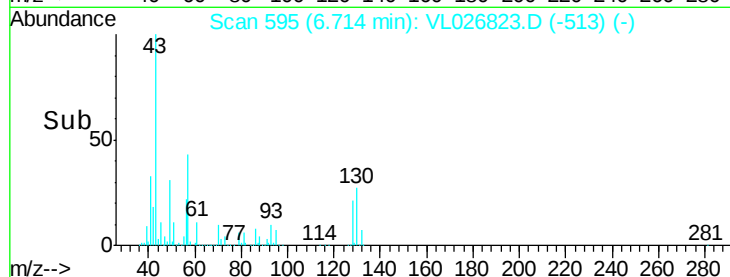
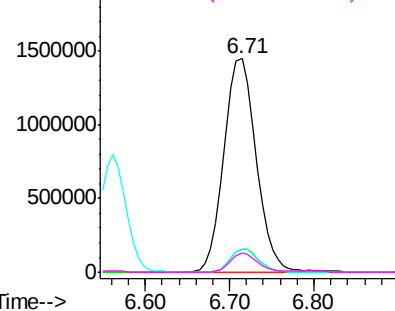


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 10.29 ppbv

RT: 6.70 min Scan# 593

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

Tgt Ion: 57 Resp: 1996745

Ion Ratio Lower Upper

57 100

41 79.1 63.3 94.9

43 189.3 151.4 227.2

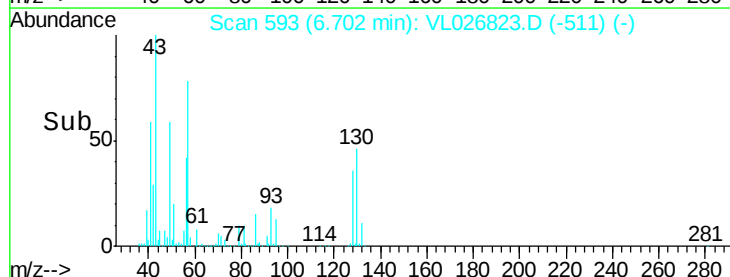
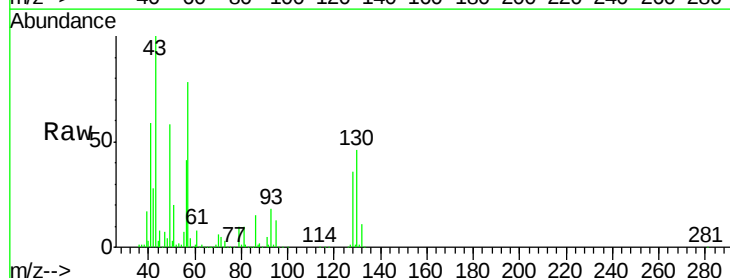
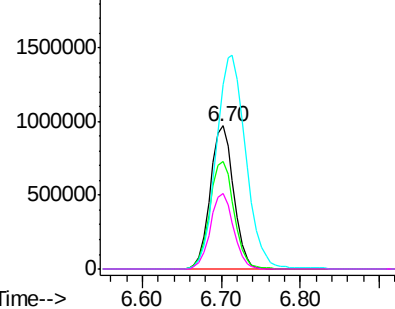
56 52.7 42.2 63.2

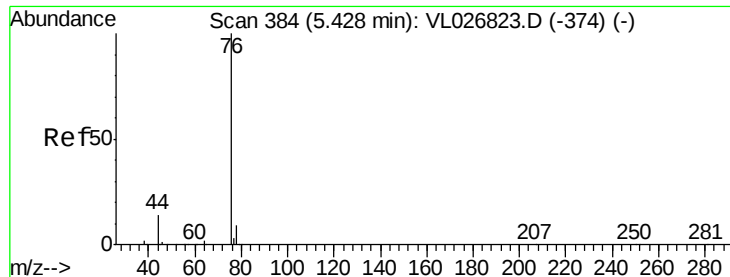
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 8.74 ppbv

RT: 5.43 min Scan# 384

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 76 Resp: 3379245

Ion Ratio Lower Upper

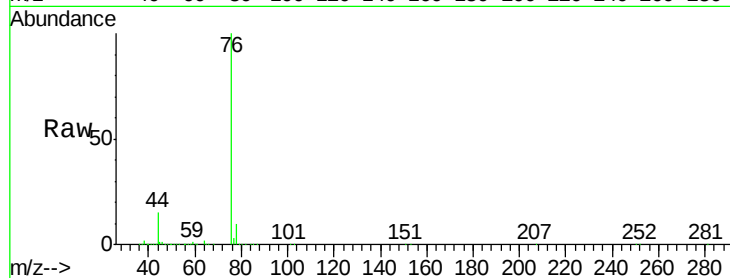
76 100

44 15.1 12.1 18.1

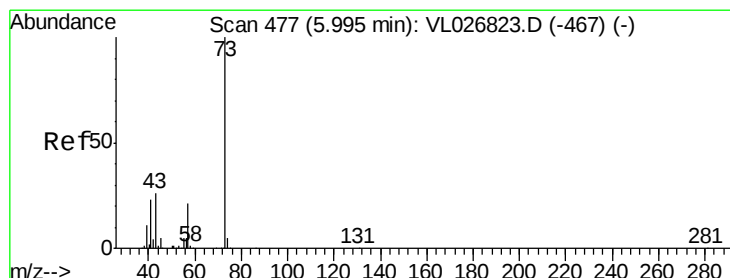
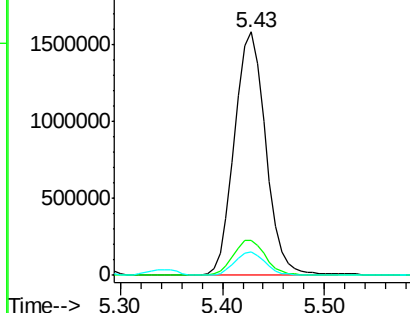
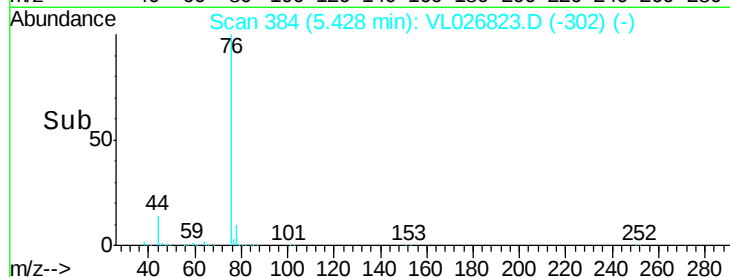
78 9.6 7.7 11.5

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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 7.48 ppbv

RT: 5.99 min Scan# 477

Delta R.T. 0.00 min

Lab File: VL026823.D

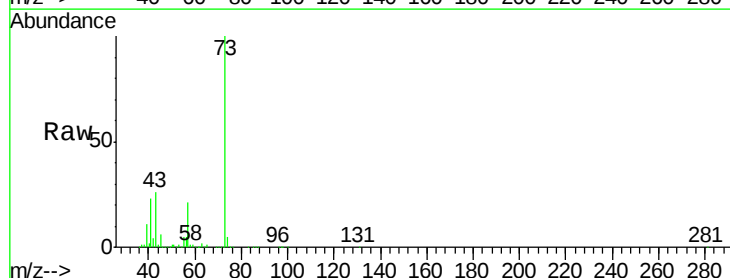
Acq: 9 Feb 2016 16:54

Tgt Ion: 73 Resp: 3235858

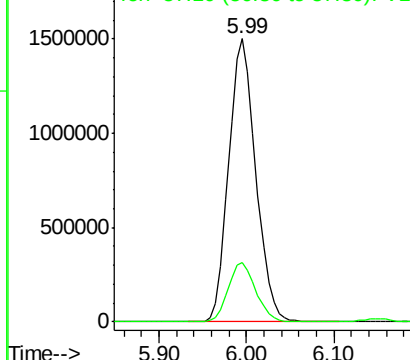
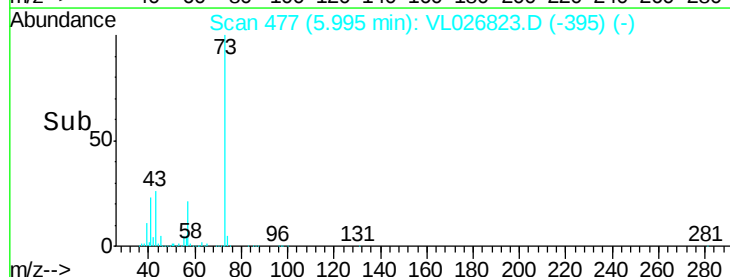
Ion Ratio Lower Upper

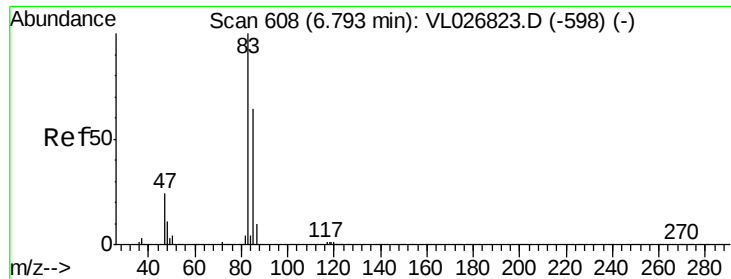
73 100

57 21.3 17.0 25.6



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 6.82 ppbv

RT: 6.79 min Scan# 608

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

Tot Ion: 83 Resp: 2960626

Ion Ratio Lower Upper

83 100

85 64.4 51.5 77.3

Instrument :

MSVOA_L

ClientSampleId :

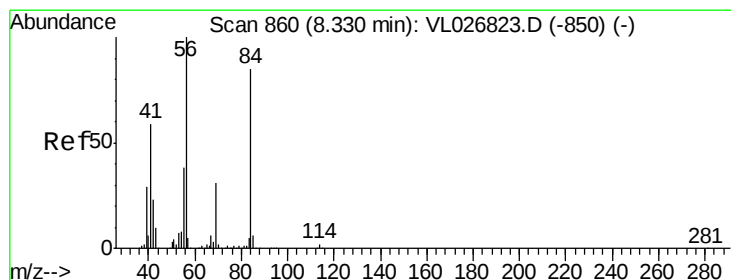
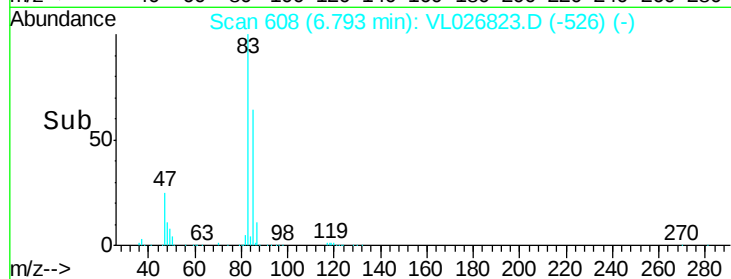
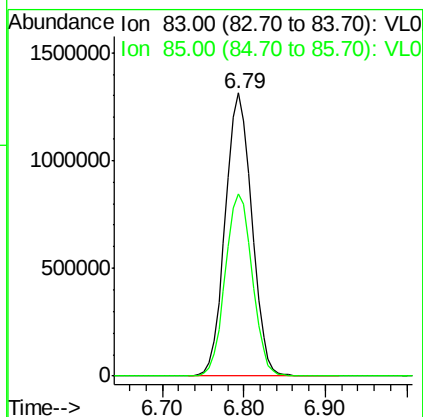
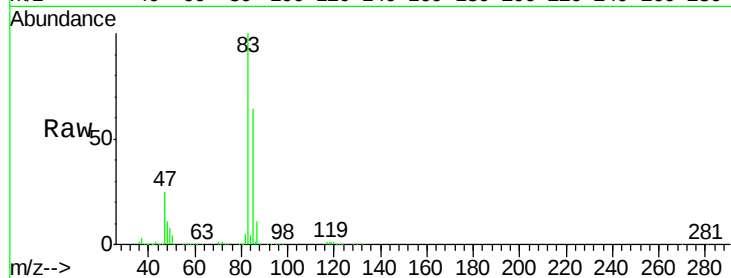
VSTDICCC010

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#30

Cyclohexane

Concen: 8.28 ppbv

RT: 8.33 min Scan# 860

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

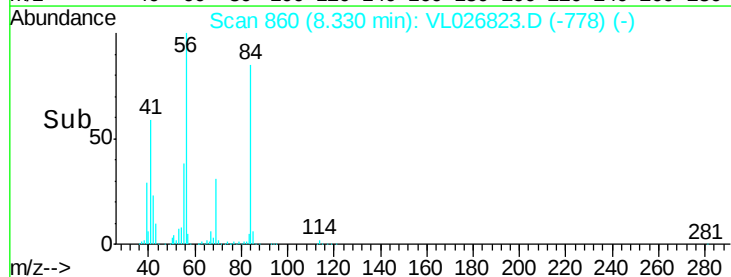
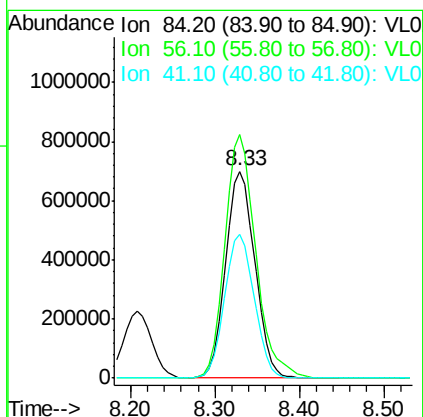
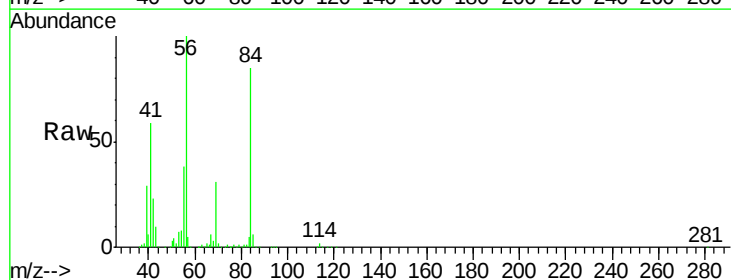
Tgt Ion: 84 Resp: 1655653

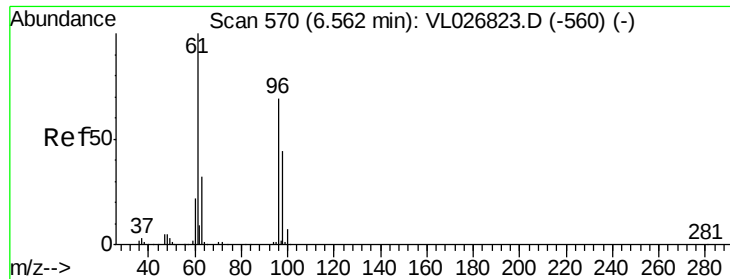
Ion Ratio Lower Upper

84 100

56 124.3 99.4 149.2

41 70.9 56.7 85.1





#31

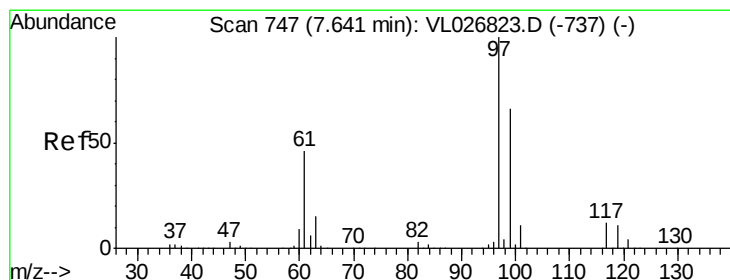
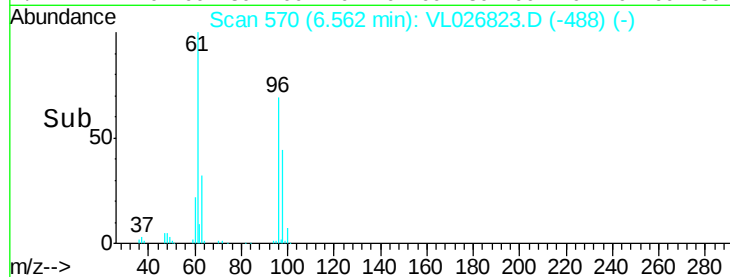
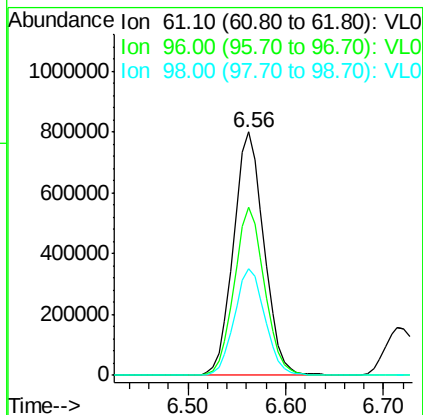
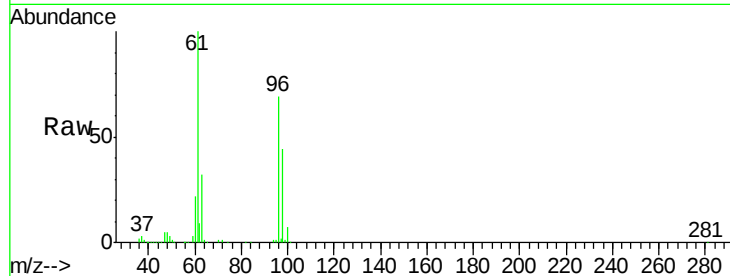
cis-1,2-Dichloroethene
 Concen: 8.23 ppbv
 RT: 6.56 min Scan# 570
 Delta R.T. 0.00 min
 Lab File: VL026823.D
 Acq: 9 Feb 2016 16:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	69.0	55.2	82.8
98	44.0	35.2	52.8

Manual Integrations
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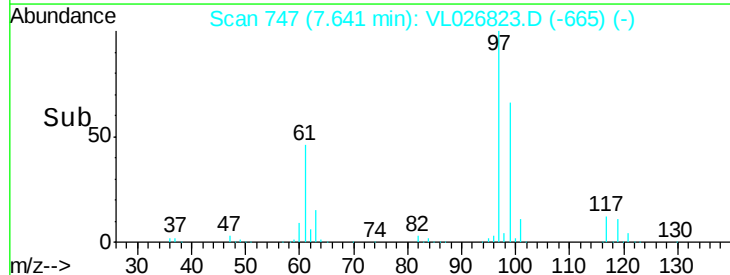
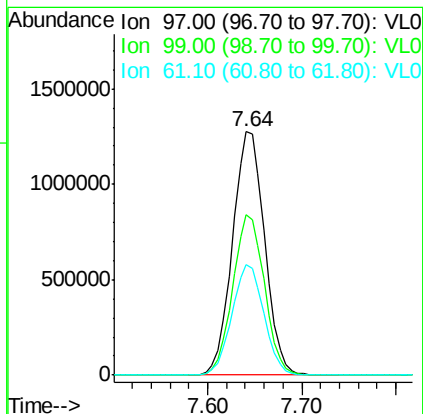
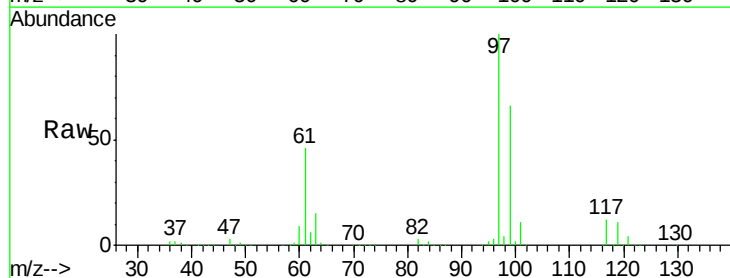
MMDadoda
 2/11/2016 1:22:48 PM

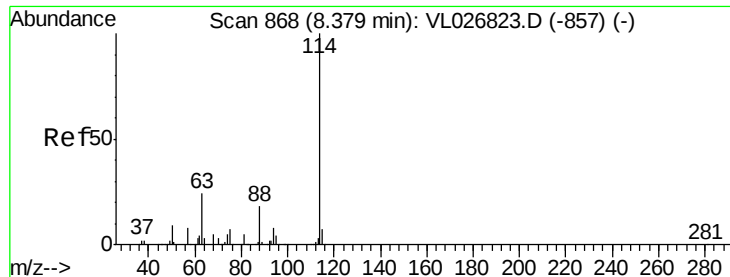


#32

1,1,1-Trichloroethane
 Concen: 6.14 ppbv
 RT: 7.64 min Scan# 747
 Delta R.T. 0.00 min
 Lab File: VL026823.D
 Acq: 9 Feb 2016 16:54

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.0	52.0	78.0
61	45.3	36.2	54.4





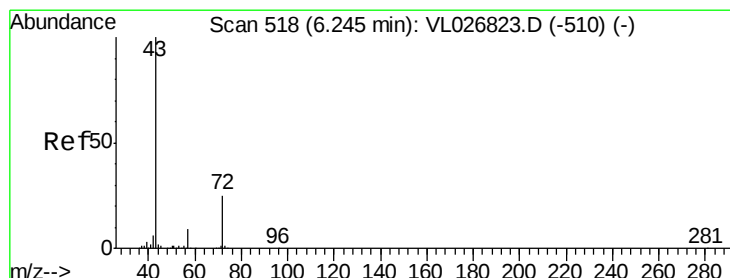
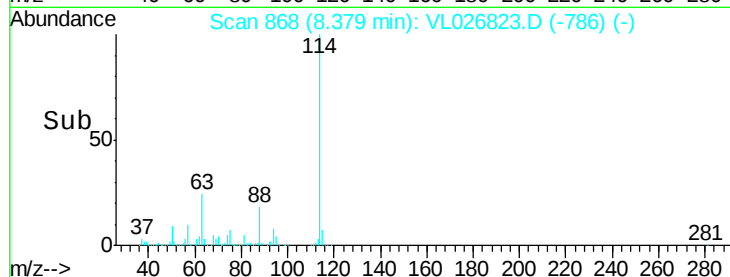
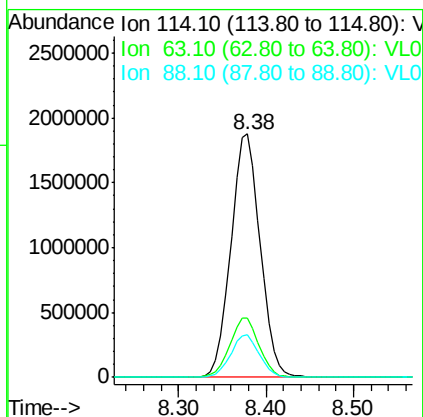
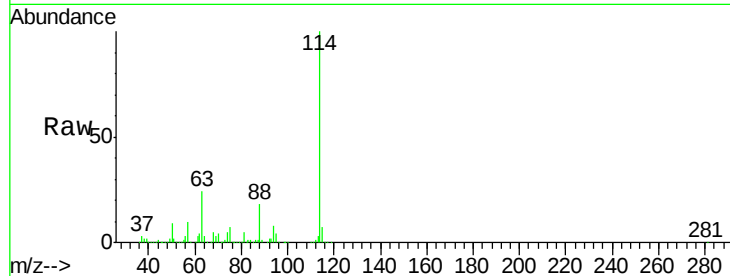
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.38 min Scan# 868
 Delta R.T. 0.00 min
 Lab File: VL026823.D
 Acq: 9 Feb 2016 16:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:114 Resp: 4359025
 Ion Ratio Lower Upper
 114 100
 63 24.6 19.7 29.5
 88 17.2 13.8 20.6

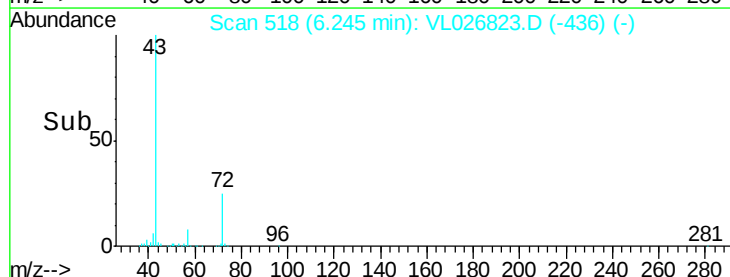
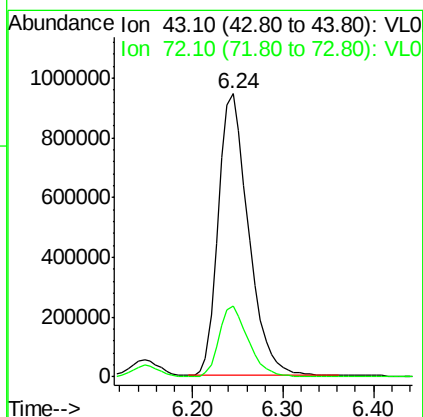
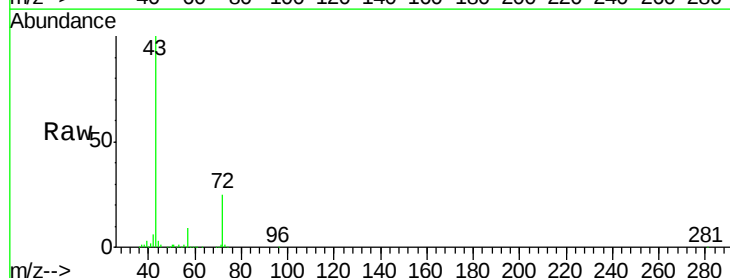
Manual Integrations
 APPROVED

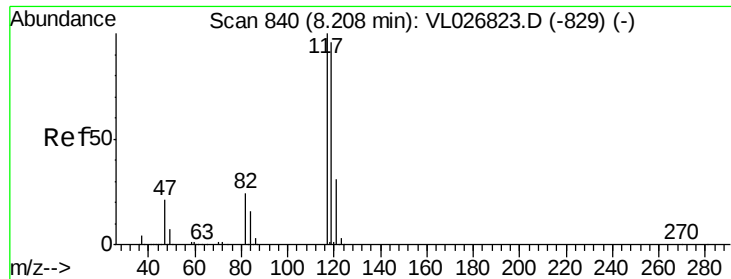
MMDadoda
 2/11/2016 1:22:48 PM



#34
 2-Butanone
 Concen: 10.81 ppbv
 RT: 6.24 min Scan# 518
 Delta R.T. 0.00 min
 Lab File: VL026823.D
 Acq: 9 Feb 2016 16:54

Tgt Ion: 43 Resp: 2191517
 Ion Ratio Lower Upper
 43 100
 72 24.8 19.8 29.8





#35

Carbon Tetrachloride

Concen: 7.67 ppbv

RT: 8.21 min Scan# 840

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:117 Resp: 3319748

Ion Ratio Lower Upper

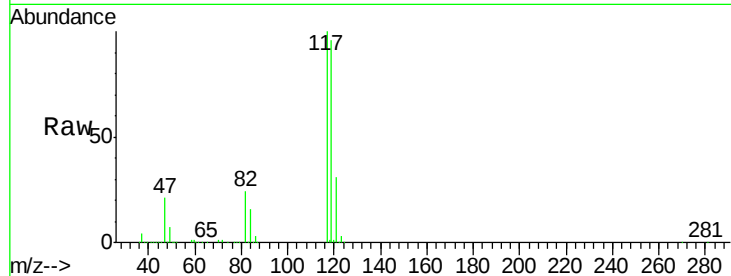
117 100

119 95.8 76.6 115.0

121 31.2 25.0 37.4

Manual Integrations
APPROVED

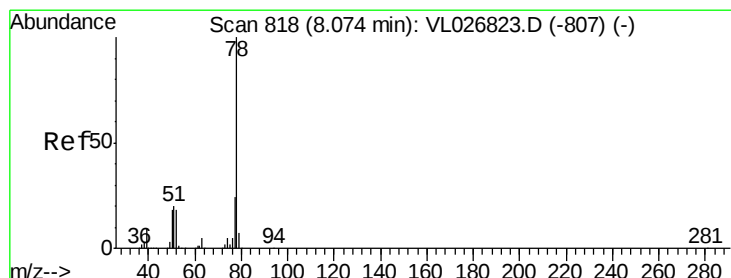
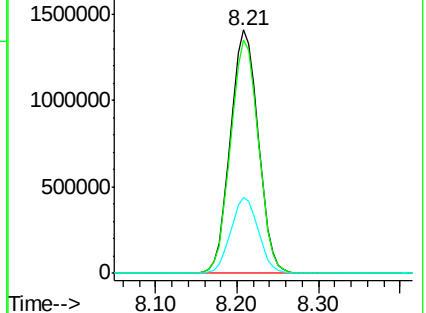
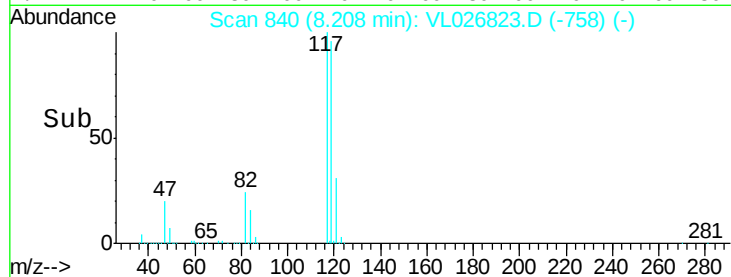
MMDadoda
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.15 ppbv

RT: 8.07 min Scan# 818

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

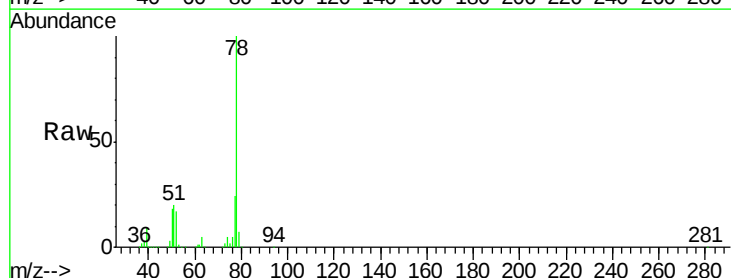
Tgt Ion: 78 Resp: 3708707

Ion Ratio Lower Upper

78 100

77 23.8 19.0 28.6

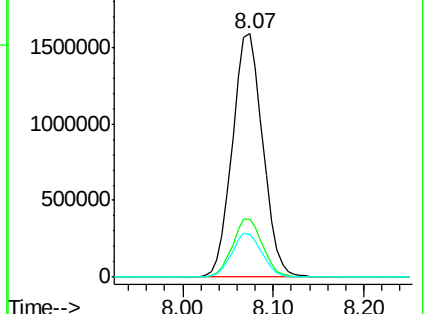
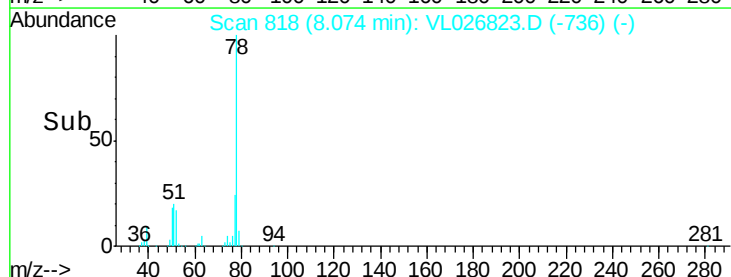
50 17.8 14.2 21.4

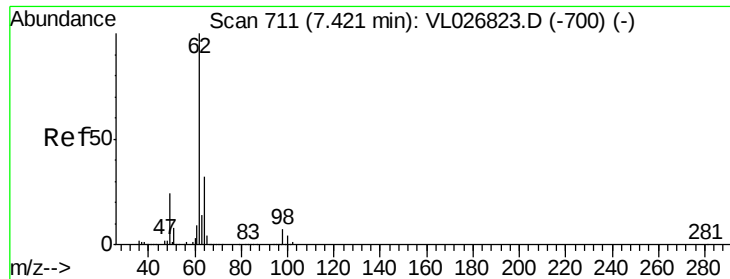


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





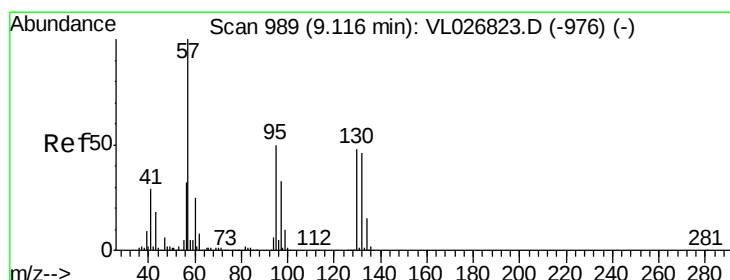
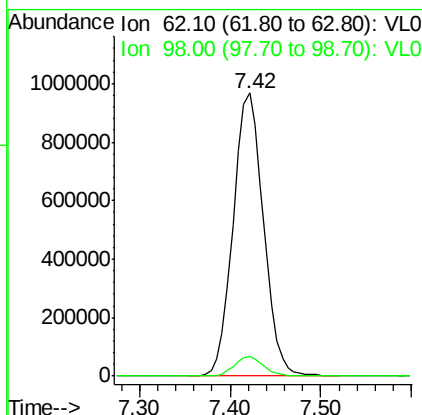
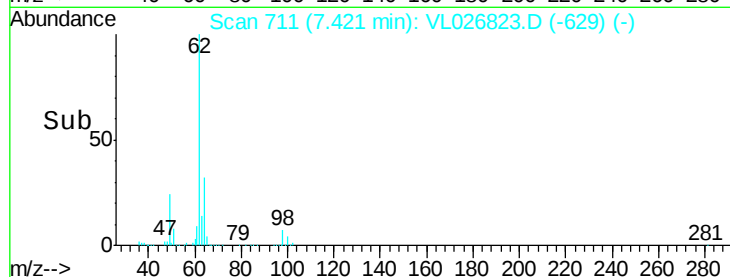
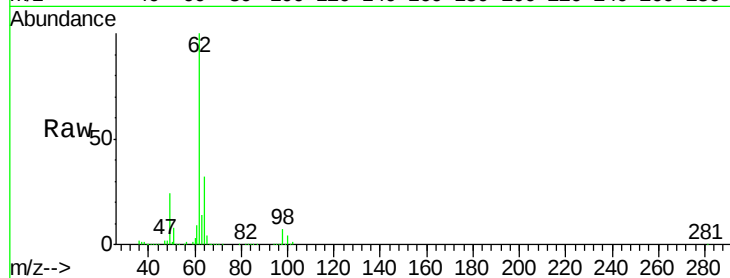
#37
 1,2-Dichloroethane
 Concen: 7.15 ppbv
 RT: 7.42 min Scan# 711
 Delta R.T. 0.00 min
 Lab File: VL026823.D
 Acq: 9 Feb 2016 16:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 62 Resp: 2246539
 Ion Ratio Lower Upper
 62 100
 98 6.8 5.4 8.2

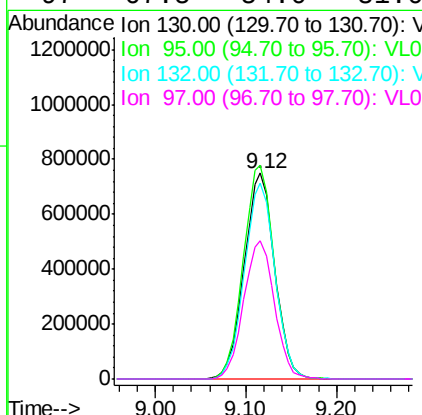
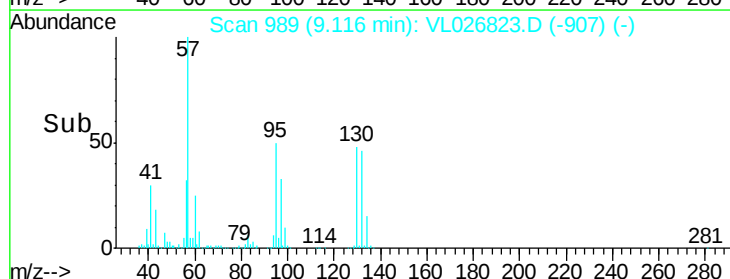
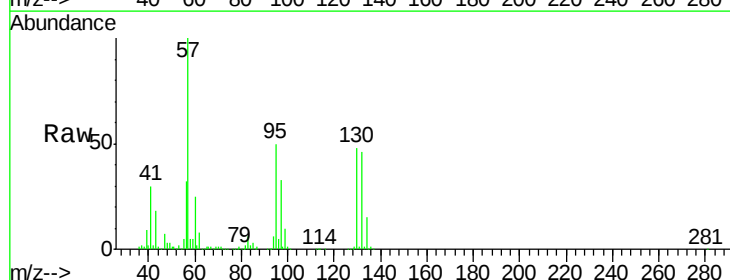
Manual Integrations
 APPROVED

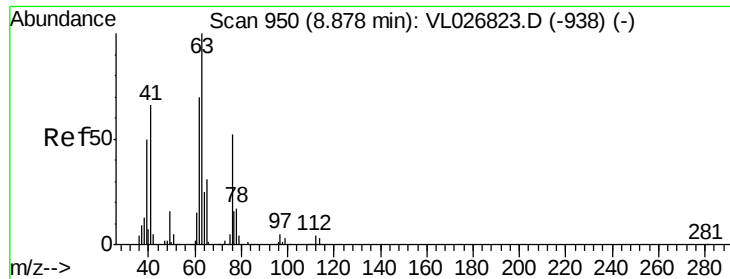
MMDadoda
 2/11/2016 1:22:48 PM



#38
 Trichloroethene
 Concen: 10.10 ppbv
 RT: 9.12 min Scan# 989
 Delta R.T. 0.00 min
 Lab File: VL026823.D
 Acq: 9 Feb 2016 16:54

Tgt Ion:130 Resp: 1743555
 Ion Ratio Lower Upper
 130 100
 95 103.8 83.0 124.6
 132 95.0 76.0 114.0
 97 67.5 54.0 81.0





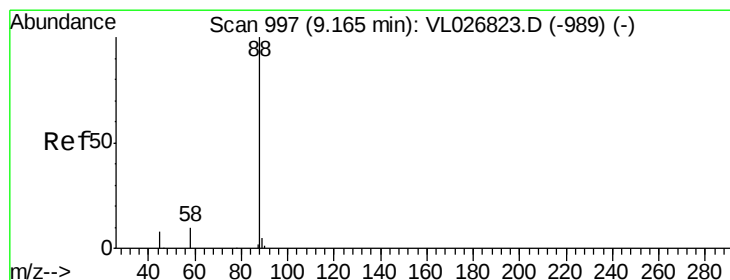
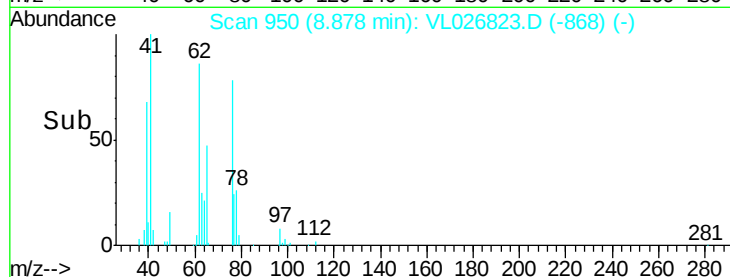
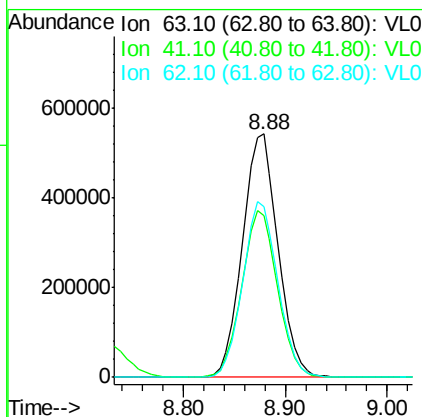
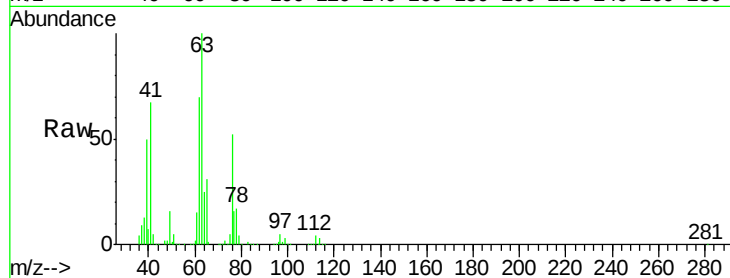
#39
 1,2-Dichloropropane
 Concen: 10.71 ppbv
 RT: 8.88 min Scan# 950
 Delta R.T. 0.00 min
 Lab File: VL026823.D
 Acq: 9 Feb 2016 16:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 63 Resp: 1315769
 Ion Ratio Lower Upper
 63 100
 41 66.5 53.2 79.8
 62 70.0 56.0 84.0

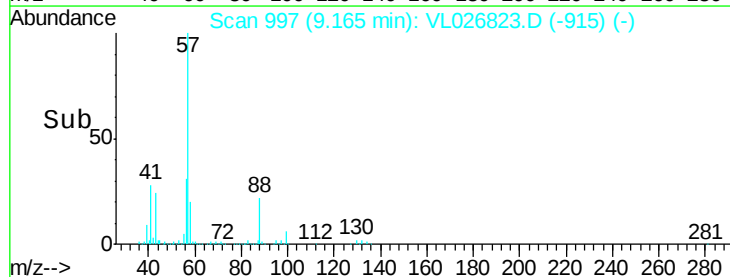
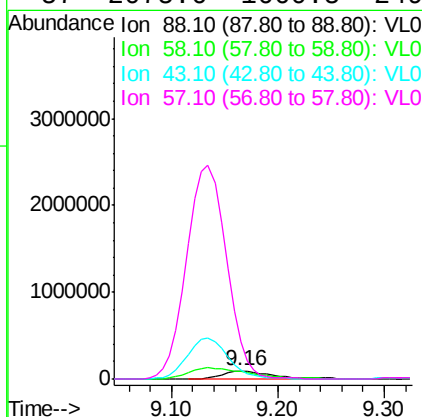
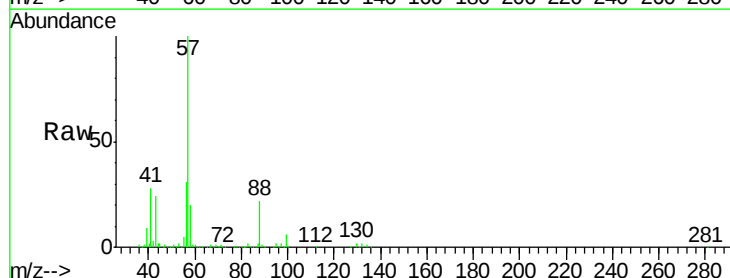
Manual Integrations
 APPROVED

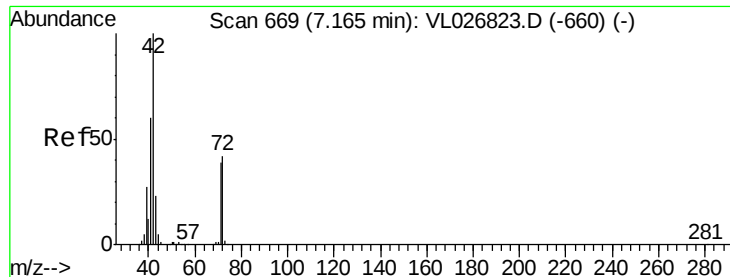
MMDadoda
 2/11/2016 1:22:48 PM



#40
 1,4-Dioxane
 Concen: 10.26 ppbv
 RT: 9.16 min Scan# 997
 Delta R.T. 0.00 min
 Lab File: VL026823.D
 Acq: 9 Feb 2016 16:54

Tgt Ion: 88 Resp: 308490
 Ion Ratio Lower Upper
 88 100
 58 169.5 135.6 203.4
 43 415.4 332.3 498.5
 57 2075.6 1660.5 2490.7





#41

Tetrahydrofuran

Concen: 13.33 ppbv

RT: 7.17 min Scan# 669

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

Instrument :

MSVOA_L

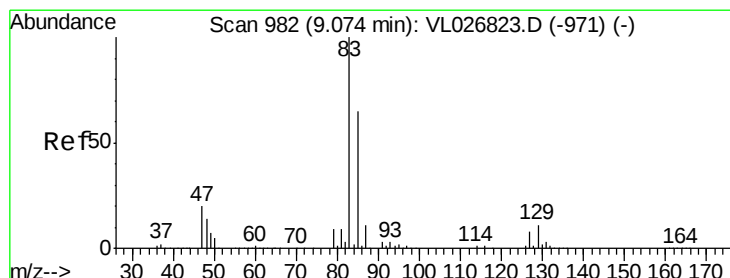
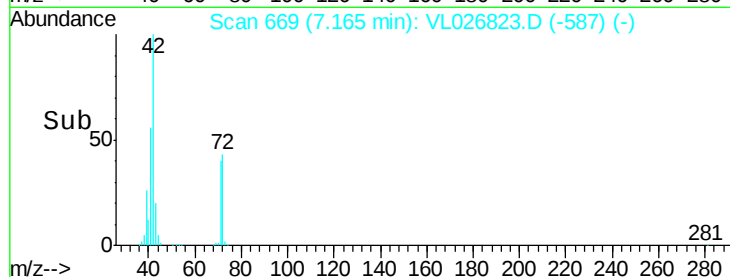
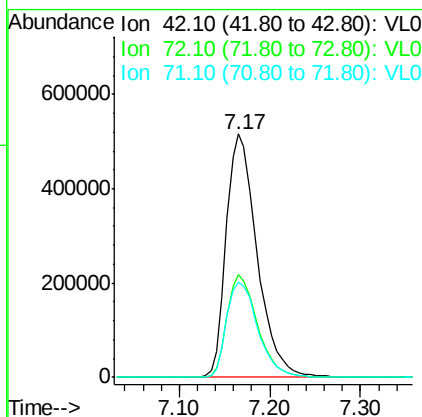
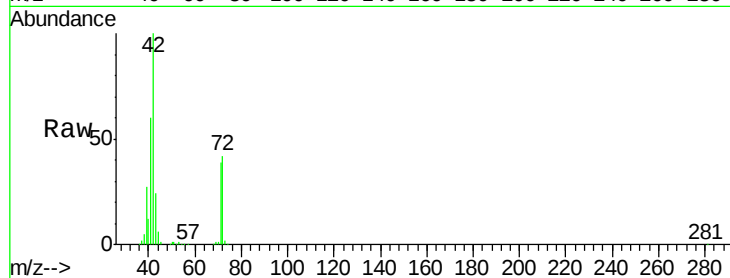
ClientSampleId :

VSTDICCC010

Tot Ion:	42	Resp:	1220840
Ion	Ratio	Lower	Upper
42	100		
72	41.7	33.4	50.0
71	40.1	32.1	48.1

Manual Integrations
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#42

Bromodichloromethane

Concen: 7.71 ppbv

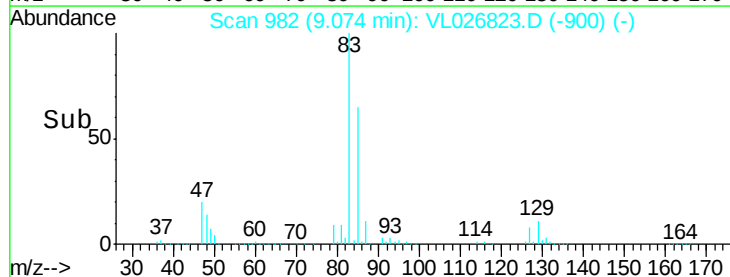
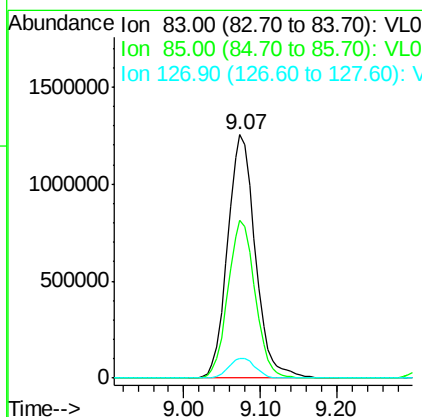
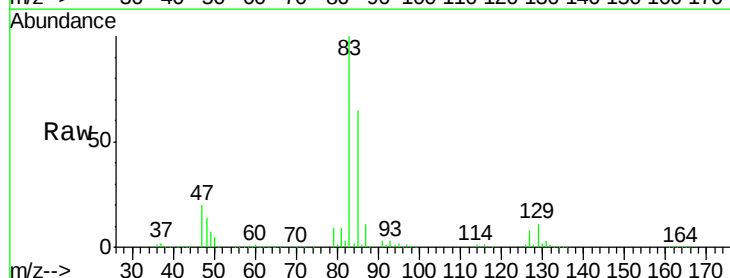
RT: 9.07 min Scan# 982

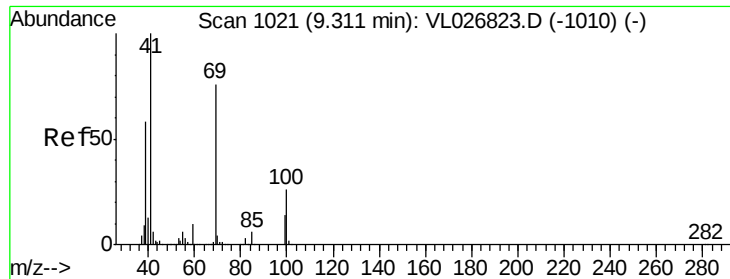
Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

Tgt Ion:	83	Resp:	3142073
Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.8	77.6
127	8.0	6.4	9.6





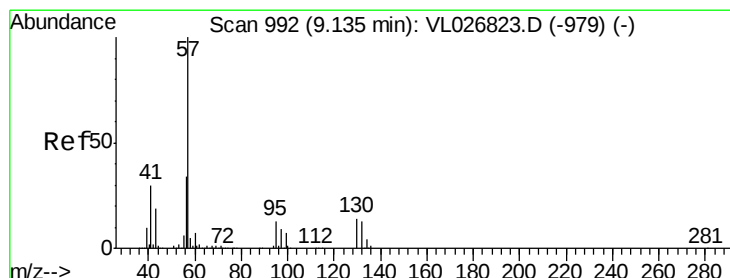
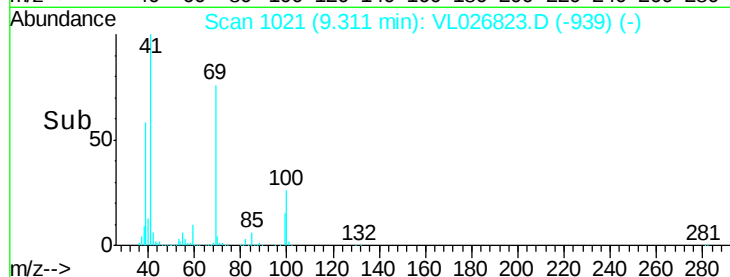
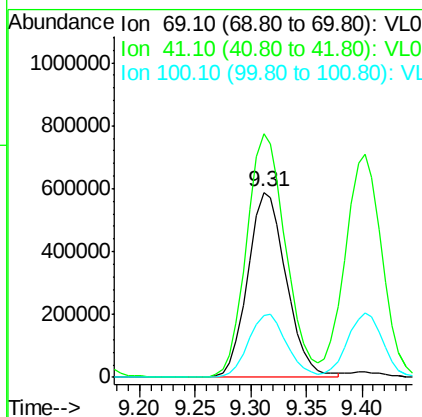
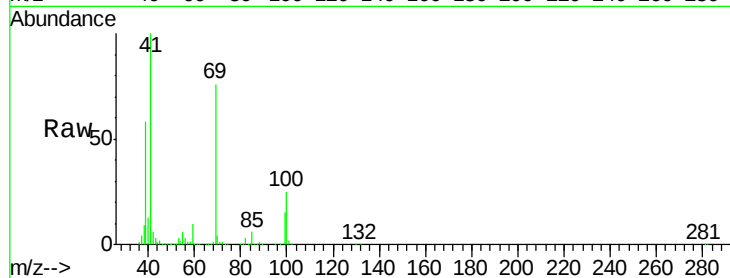
#43
Methvl Methacrilate
Concen: 10.07 ppbv
RT: 9.31 min Scan# 1021
Delta R.T. 0.00 min
Lab File: VL026823.D
Acq: 9 Feb 2016 16:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 69 Resp: 1416130
Ion Ratio Lower Upper
69 100
41 133.1 106.5 159.7
100 34.0 27.2 40.8

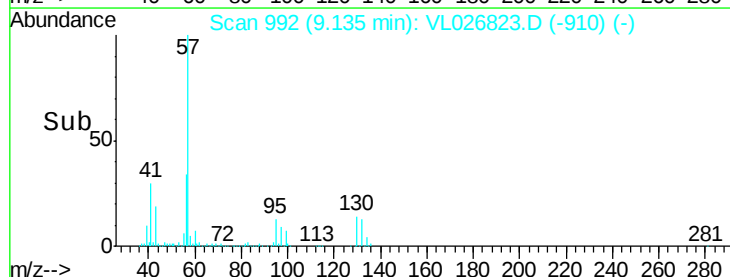
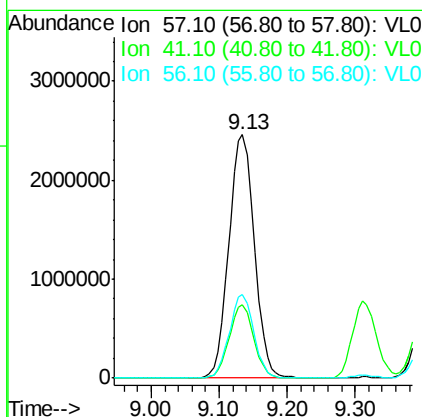
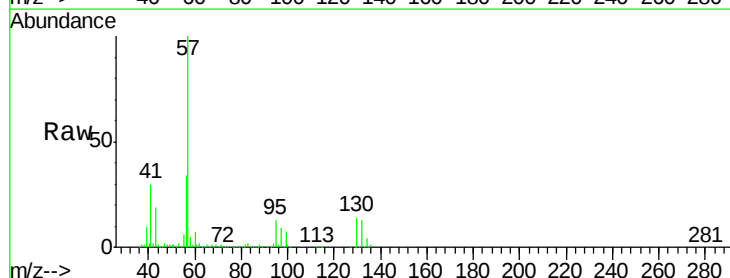
Manual Integrations
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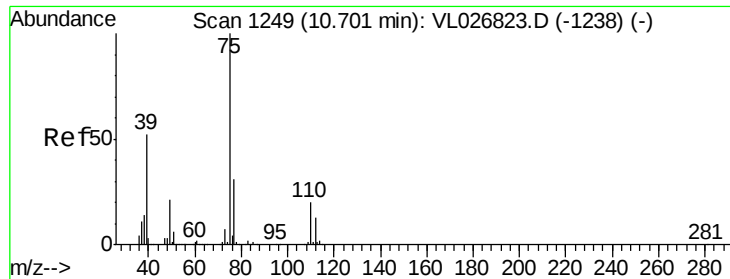
MMDadoda
2/11/2016 1:22:48 PM



#44
2,2,4-Trimethylpentane
Concen: 11.02 ppbv
RT: 9.13 min Scan# 992
Delta R.T. 0.00 min
Lab File: VL026823.D
Acq: 9 Feb 2016 16:54

Tgt Ion: 57 Resp: 6403801
Ion Ratio Lower Upper
57 100
41 29.0 23.2 34.8
56 32.8 26.2 39.4





#45

t-1,3-Dichloropropene

Concen: 8.40 ppbv

RT: 10.70 min Scan# 1249

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 75 Resp: 2045947

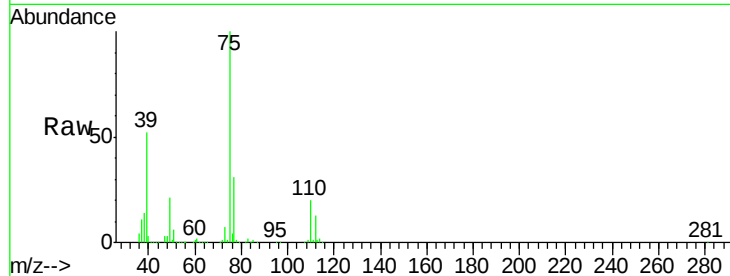
Ion Ratio Lower Upper

75 100

77 31.3 25.0 37.6

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

10.70

800000

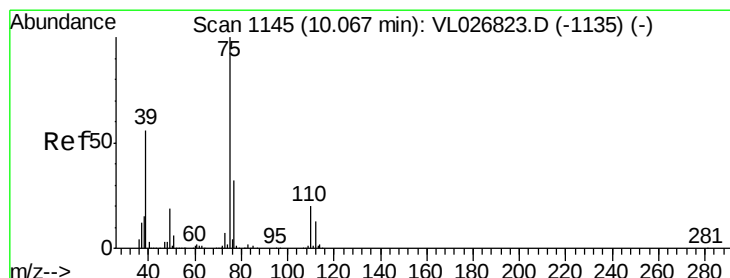
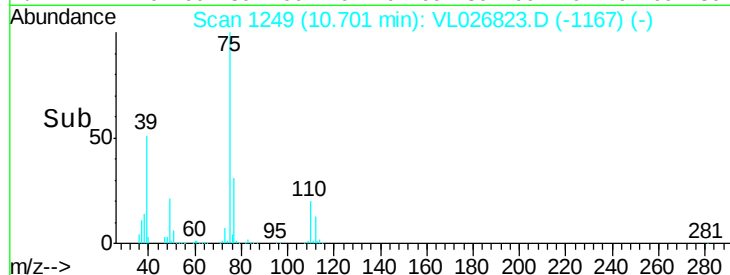
600000

400000

200000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 9.23 ppbv

RT: 10.07 min Scan# 1145

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

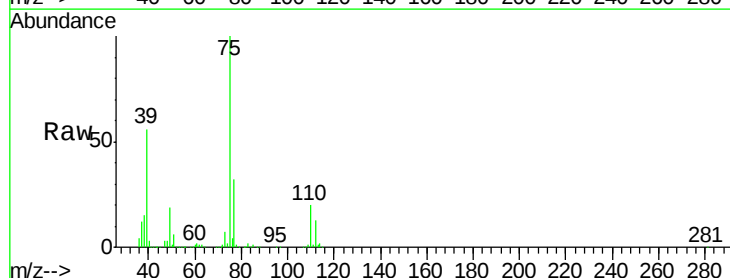
Tgt Ion: 75 Resp: 2405851

Ion Ratio Lower Upper

75 100

39 56.3 45.0 67.6

77 31.5 25.2 37.8



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

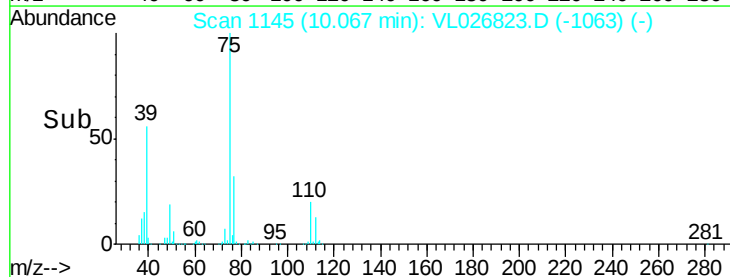
10.07

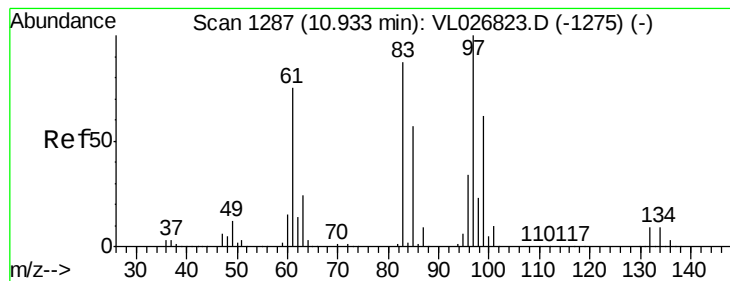
1000000

500000

0

Time-->





#47

1,1,2-Trichloroethane

Concen: 7.82 ppbv

RT: 10.93 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 97 Resp: 1518853

Ion Ratio Lower Upper

97 100

83 87.1 69.7 104.5

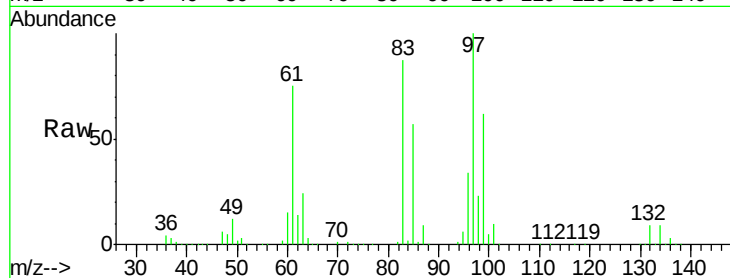
85 56.6 45.3 67.9

99 62.4 49.9 74.9

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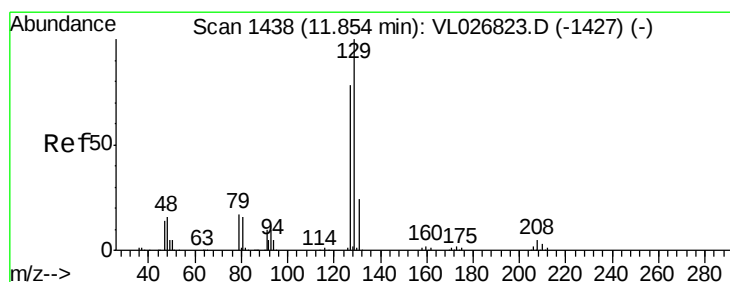
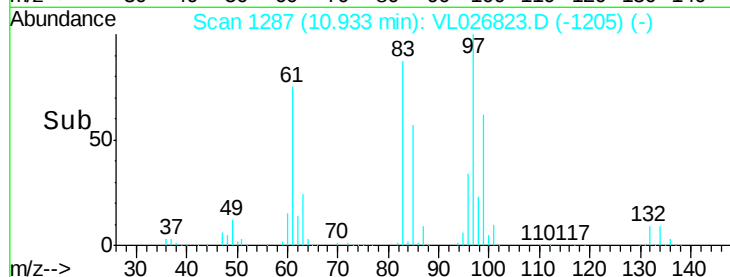
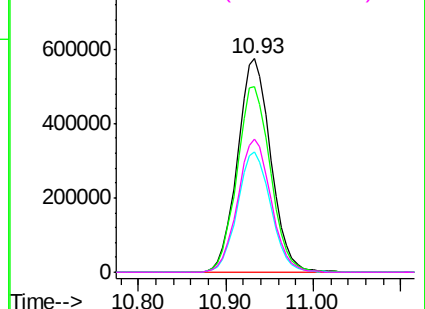


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 7.36 ppbv

RT: 11.85 min Scan# 1438

Delta R.T. 0.00 min

Lab File: VL026823.D

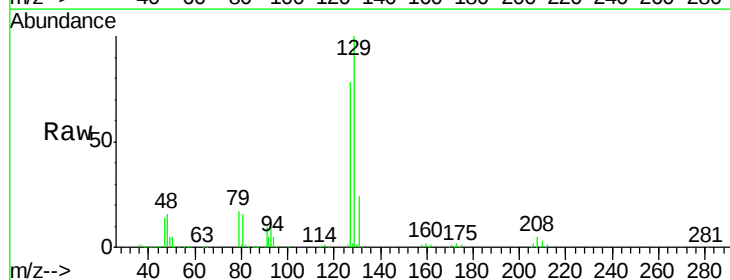
Acq: 9 Feb 2016 16:54

Tgt Ion: 129 Resp: 2692186

Ion Ratio Lower Upper

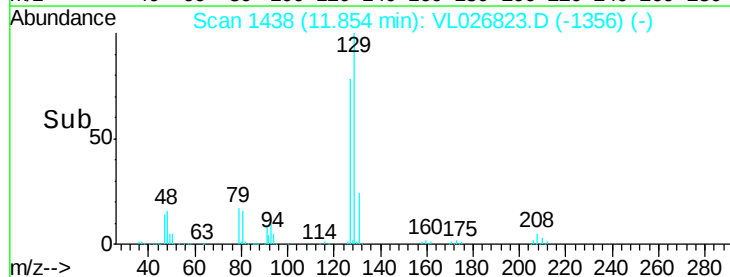
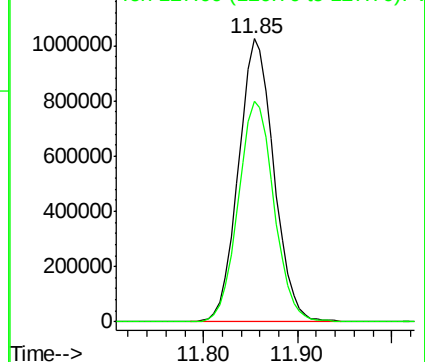
129 100

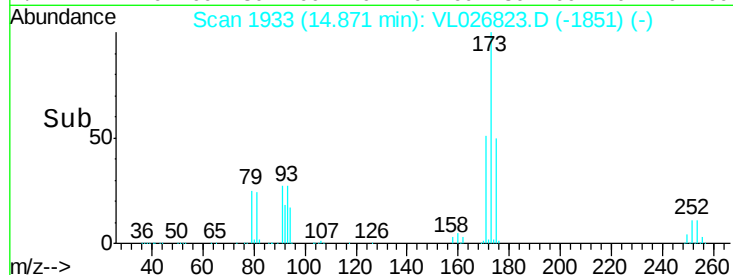
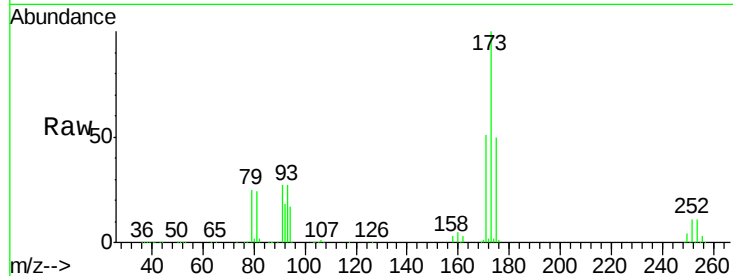
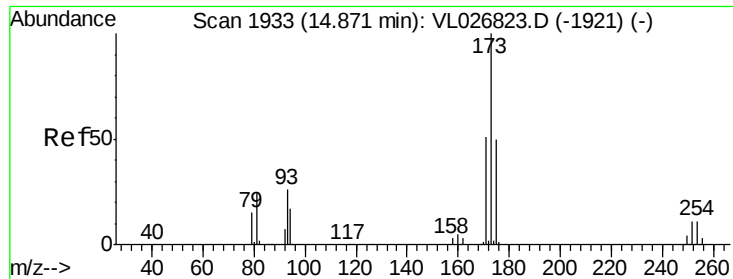
127 79.3 39.6 119.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 6.74 ppbv

RT: 14.87 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.0	39.2	58.8
171	51.7	41.4	62.0

Instrument :

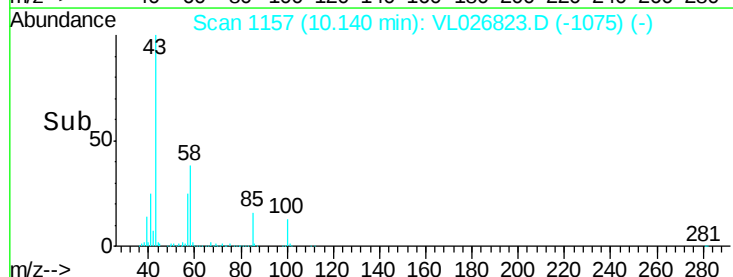
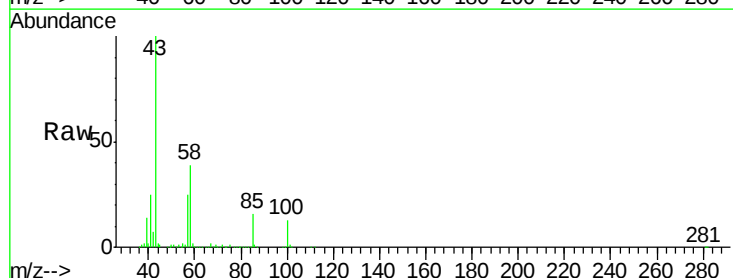
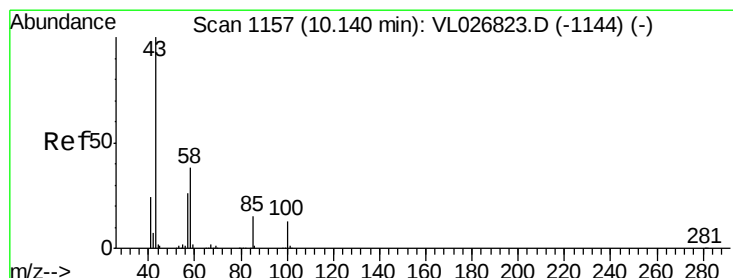
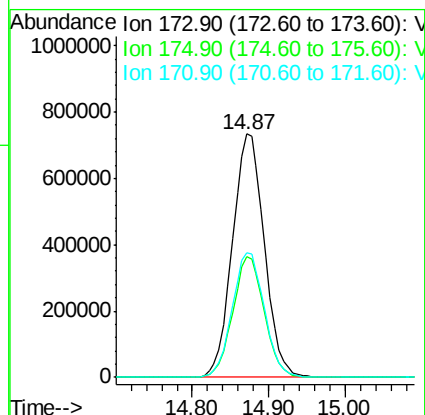
MSVOA_L

ClientSampleId :

VSTDICCC010

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#50

4-Methyl-2-Pentanone

Concen: 10.25 ppbv

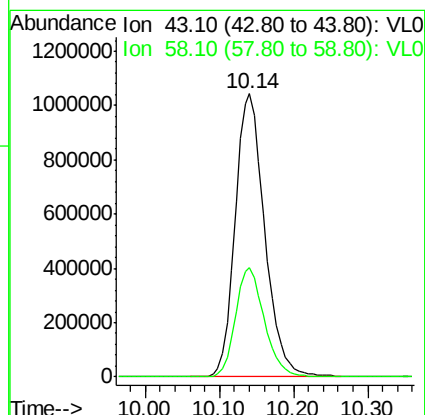
RT: 10.14 min Scan# 1157

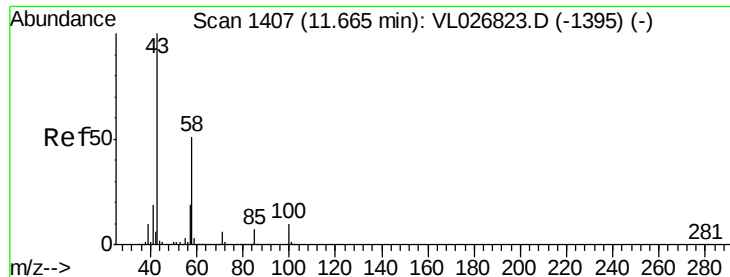
Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

Tgt Ion	Ratio	Lower	Upper
43	100		
58	37.9	30.3	45.5





#51

2-Hexanone

Concen: 9.75 ppbv

RT: 11.66 min Scan# 1407

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 2647118

Ion Ratio Lower Upper

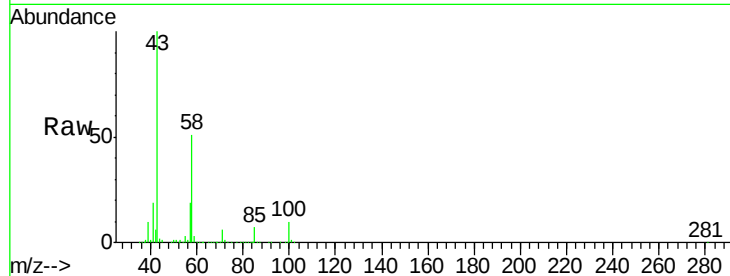
43 100

58 50.5 40.4 60.6

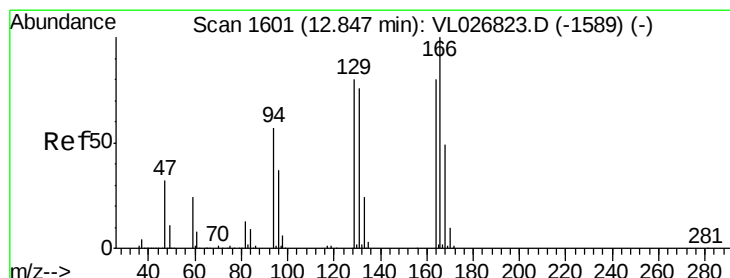
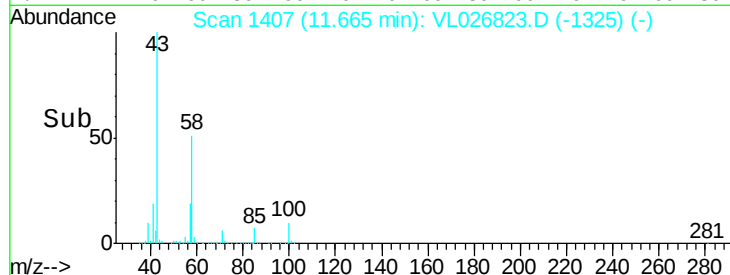
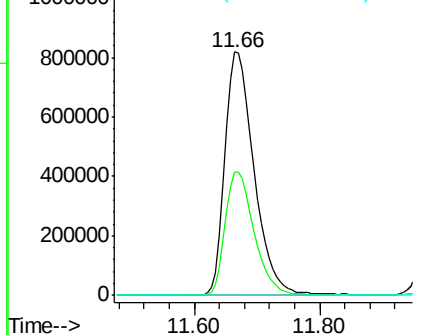
98 0.3 0.2 0.4

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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 7.52 ppbv

RT: 12.85 min Scan# 1601

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

Tgt Ion: 164 Resp: 1543070

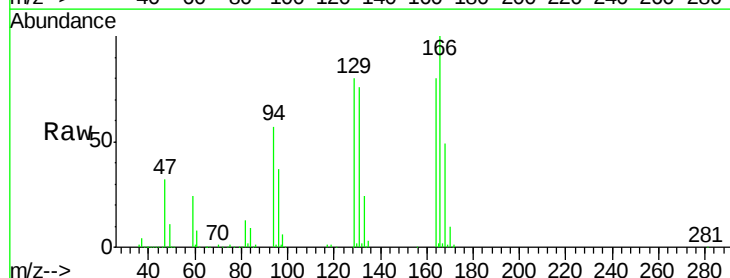
Ion Ratio Lower Upper

164 100

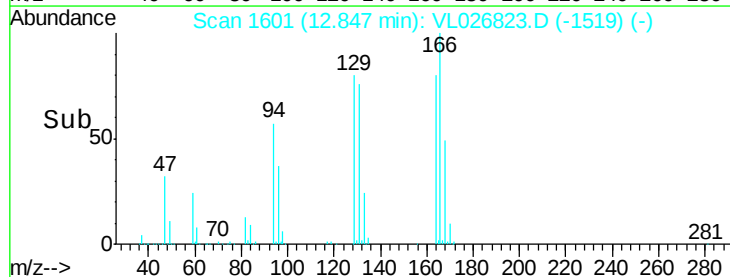
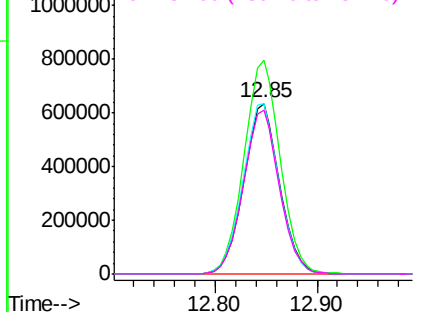
166 125.4 100.3 150.5

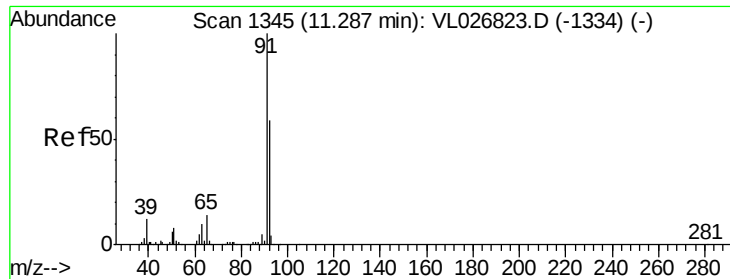
129 100.0 80.0 120.0

131 95.9 76.7 115.1



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 8.37 ppbv

RT: 11.29 min Scan# 1345

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 4492608

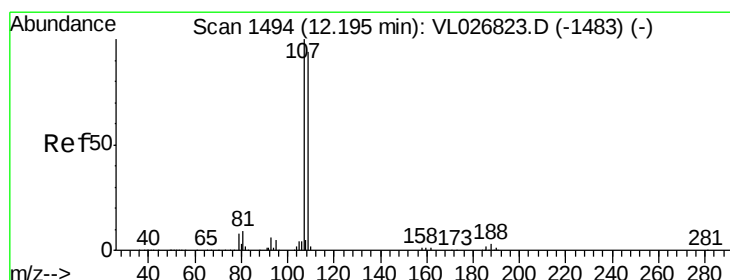
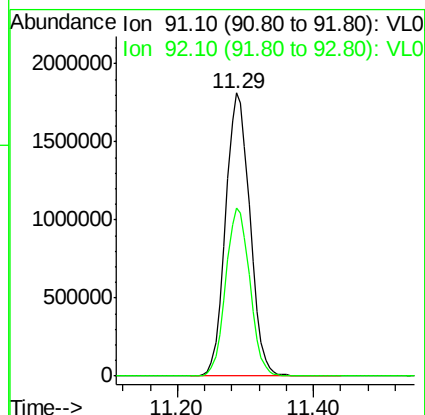
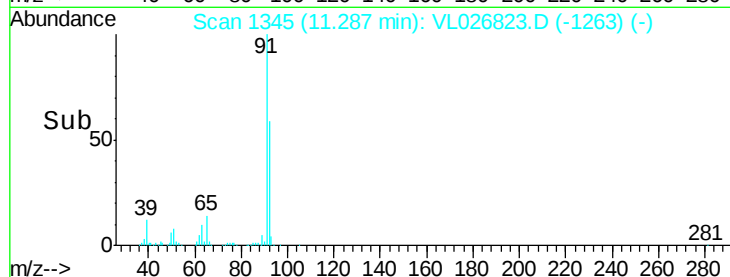
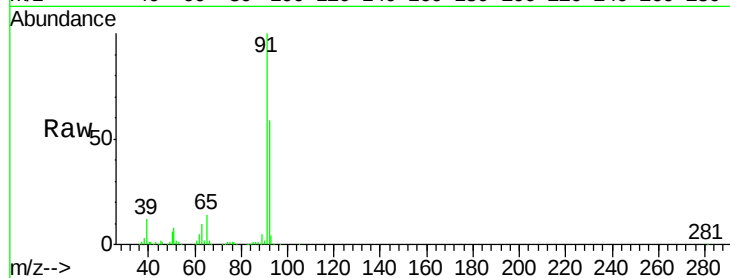
Ion Ratio Lower Upper

91 100

92 59.1 47.3 70.9

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#54

1,2-Dibromoethane

Concen: 7.11 ppbv

RT: 12.19 min Scan# 1494

Delta R.T. 0.00 min

Lab File: VL026823.D

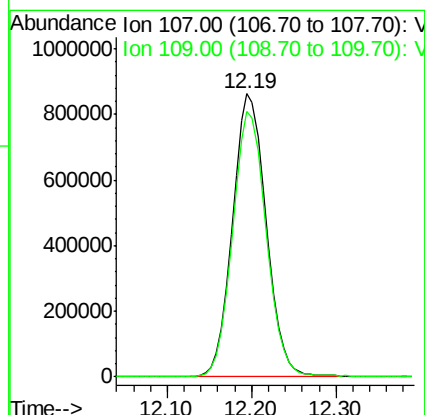
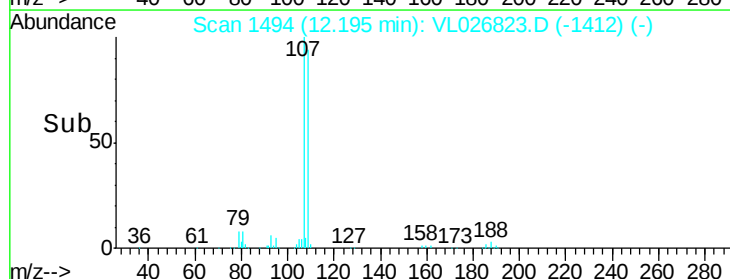
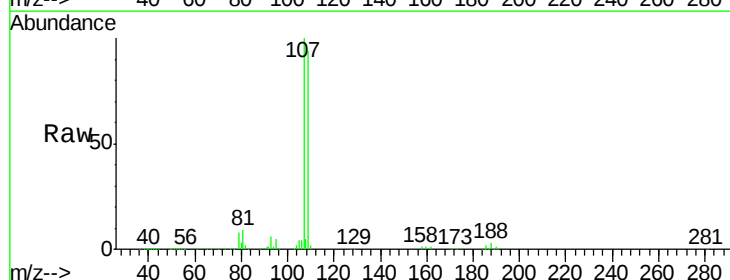
Acq: 9 Feb 2016 16:54

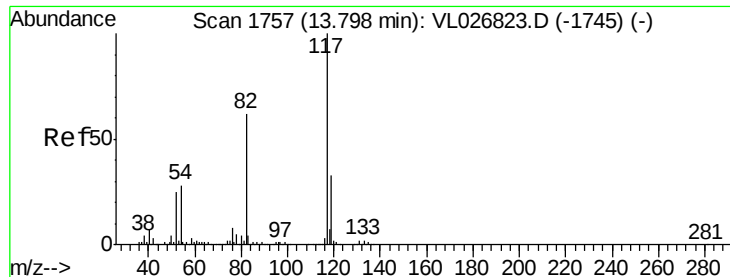
Tgt Ion: 107 Resp: 2337724

Ion Ratio Lower Upper

107 100

109 93.7 75.0 112.4





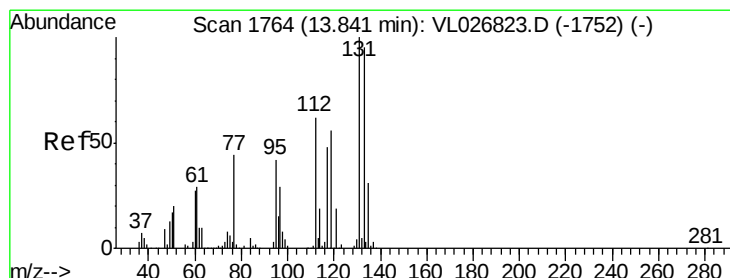
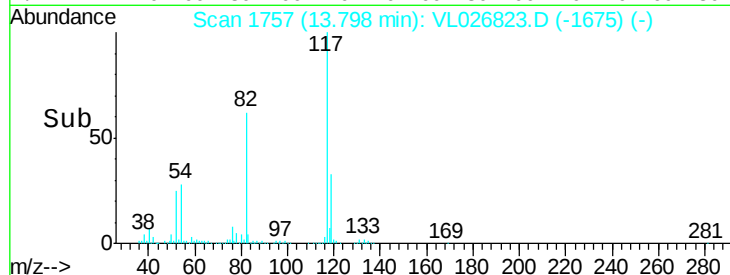
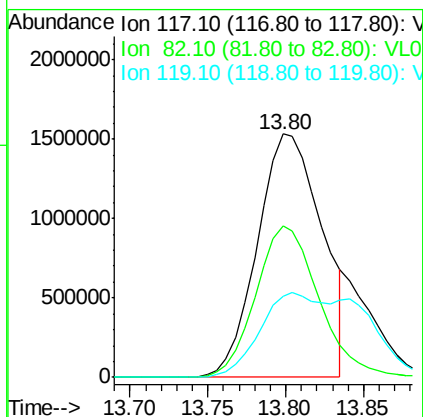
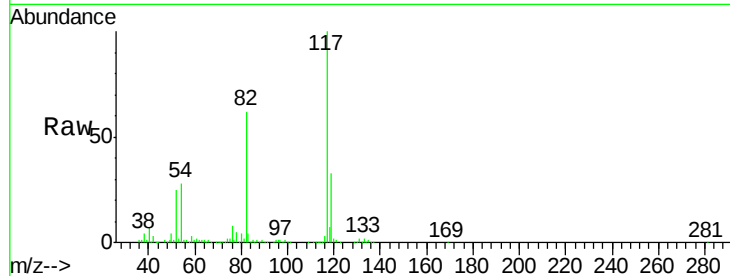
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 13.80 min Scan# 1757
Delta R.T. 0.00 min
Lab File: VL026823.D
Acq: 9 Feb 2016 16:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion:117 Resp: 4431567
Ion Ratio Lower Upper
117 100
82 61.3 51.9 77.9
119 57.2 48.5 72.7

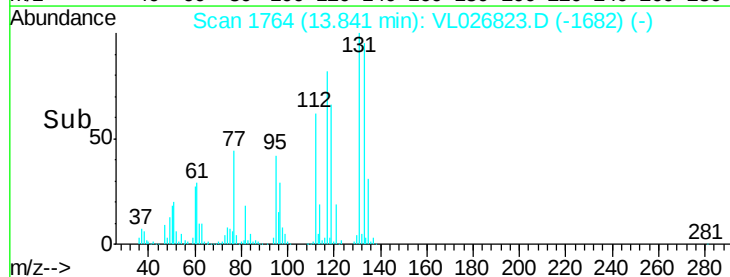
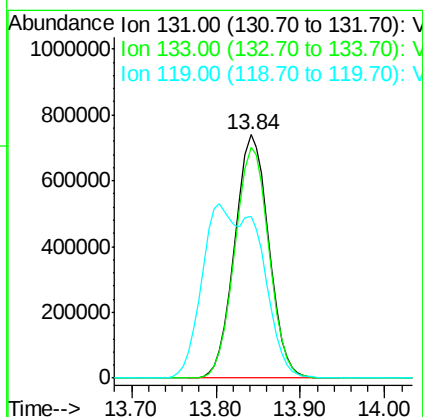
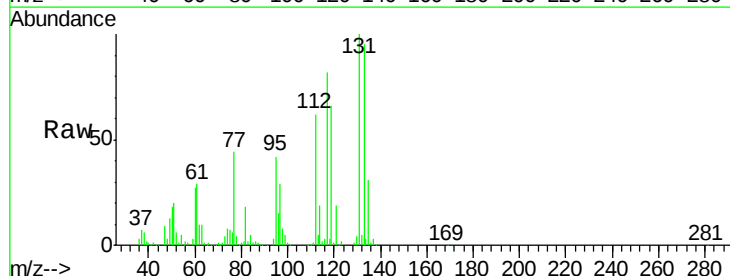
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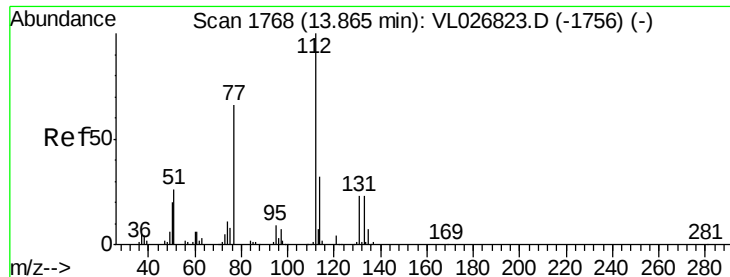
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.64 ppbv
RT: 13.84 min Scan# 1764
Delta R.T. 0.00 min
Lab File: VL026823.D
Acq: 9 Feb 2016 16:54

Tgt Ion:131 Resp: 2023694
Ion Ratio Lower Upper
131 100
133 95.5 76.4 114.6
119 124.8 99.8 149.8





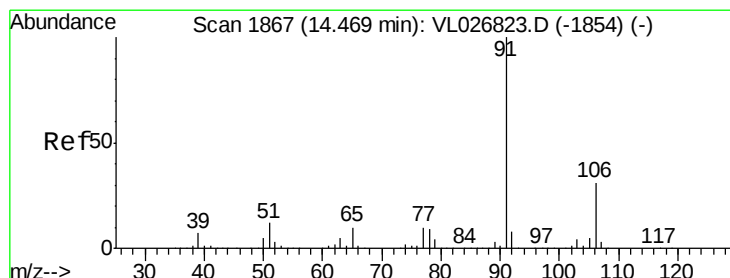
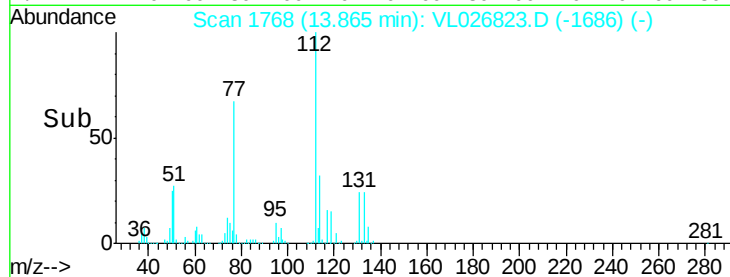
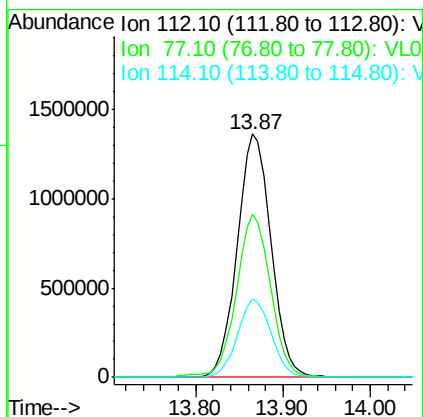
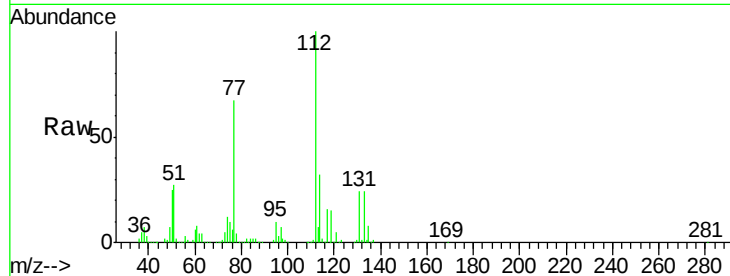
#57
Chlorobenzene
Concen: 8.18 ppbv
RT: 13.87 min Scan# 1768
Delta R.T. 0.00 min
Lab File: VL026823.D
Acq: 9 Feb 2016 16:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 112 Resp: 3668155
Ion Ratio Lower Upper
112 100
77 66.6 53.3 79.9
114 32.1 28.9 35.3

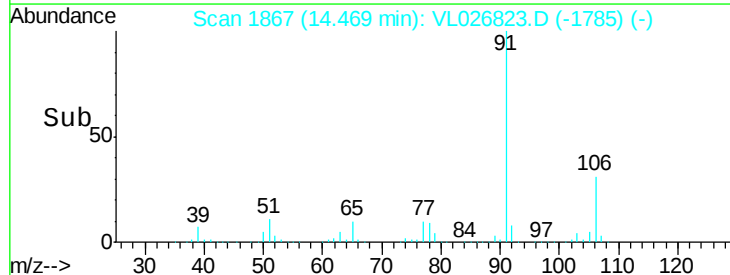
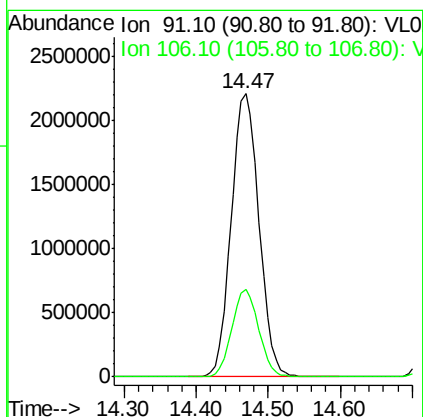
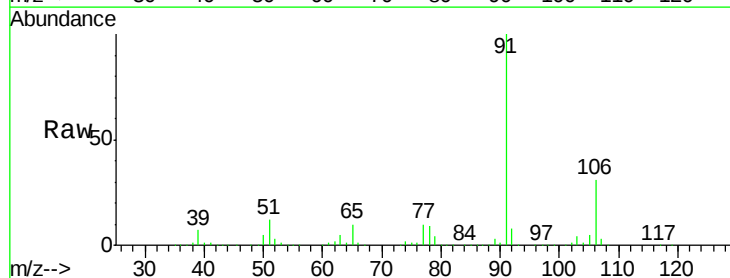
Manual Integrations
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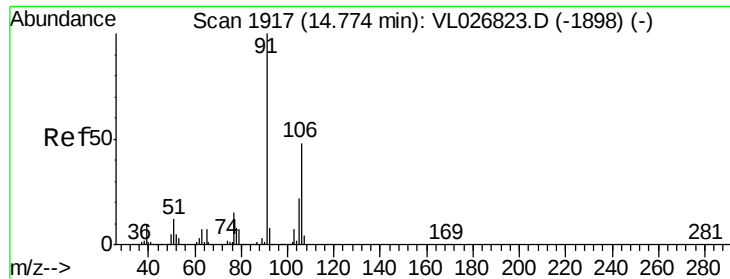
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#58
Ethyl Benzene
Concen: 8.14 ppbv
RT: 14.47 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VL026823.D
Acq: 9 Feb 2016 16:54

Tgt Ion: 91 Resp: 5909568
Ion Ratio Lower Upper
91 100
106 31.1 24.9 37.3





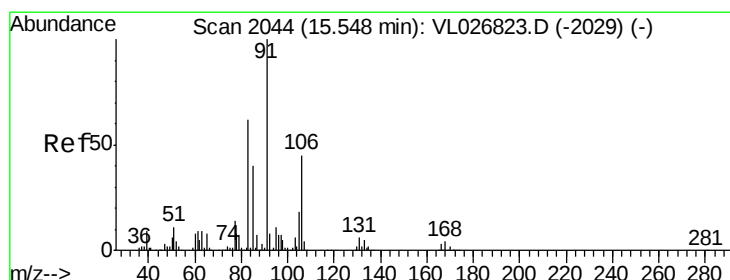
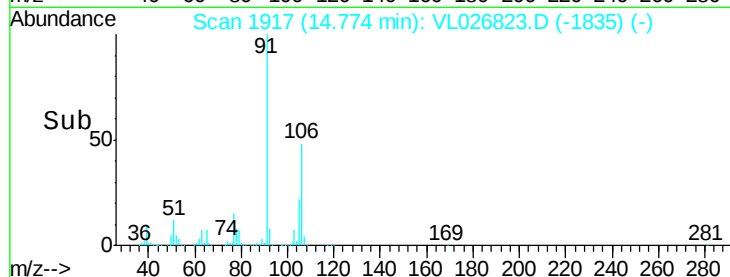
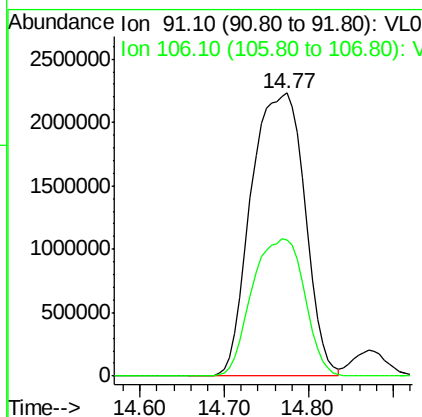
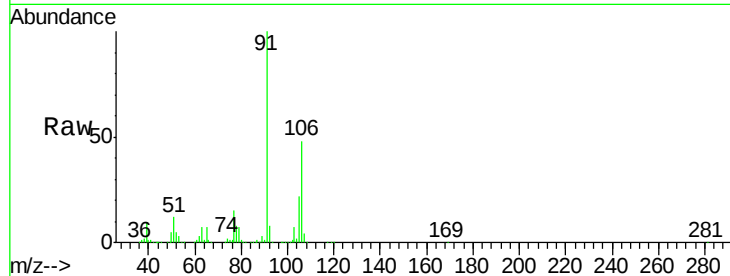
#59
m/p-Xylene
Concen: 15.33 ppbv
RT: 14.77 min Scan# 1917
Delta R.T. 0.00 min
Lab File: VL026823.D
Acq: 9 Feb 2016 16:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 91 Resp: 9744044
Ion Ratio Lower Upper
91 100
106 47.7 38.2 57.2

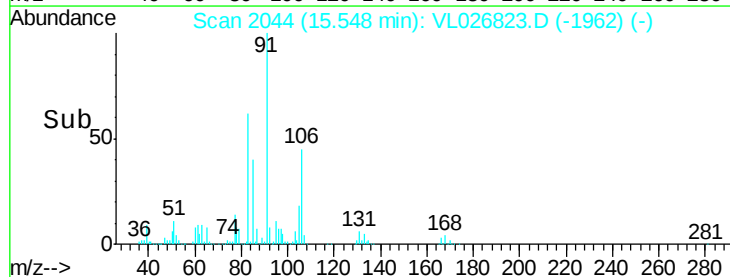
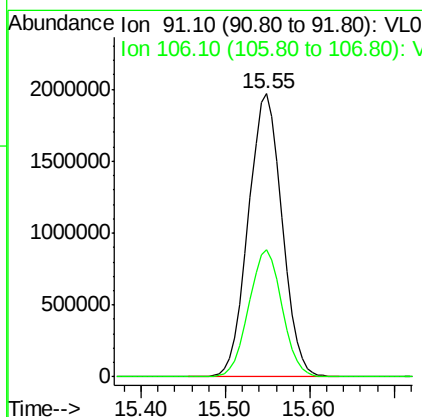
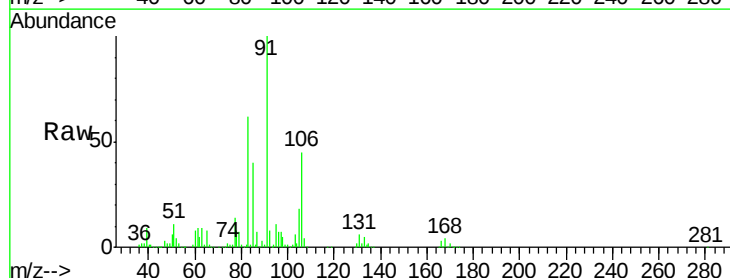
Manual Integrations
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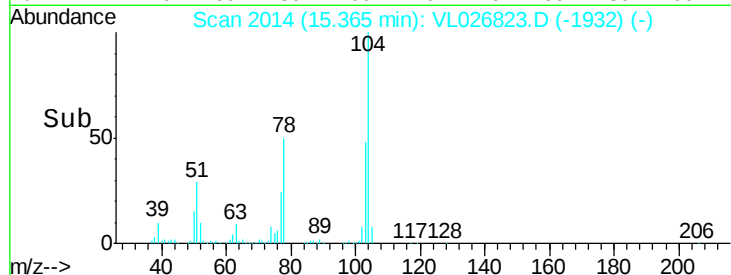
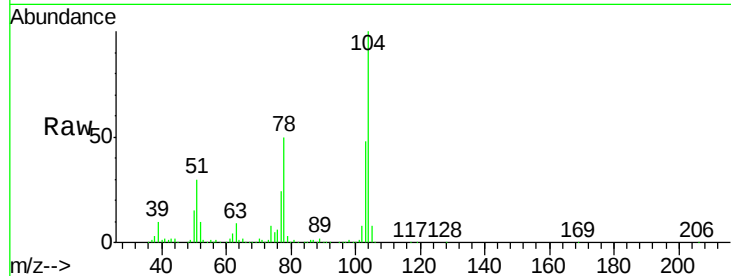
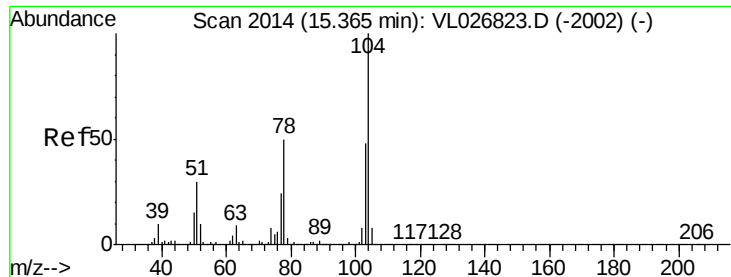
MMDadoda
2/11/2016 1:22:48 PM



#60
o-Xylene
Concen: 7.63 ppbv
RT: 15.55 min Scan# 2044
Delta R.T. 0.00 min
Lab File: VL026823.D
Acq: 9 Feb 2016 16:54

Tgt Ion: 91 Resp: 5358882
Ion Ratio Lower Upper
91 100
106 44.5 22.3 66.8





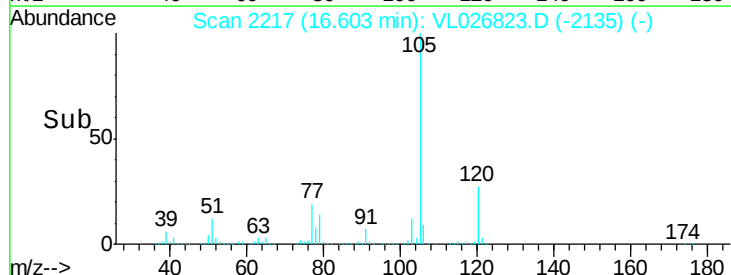
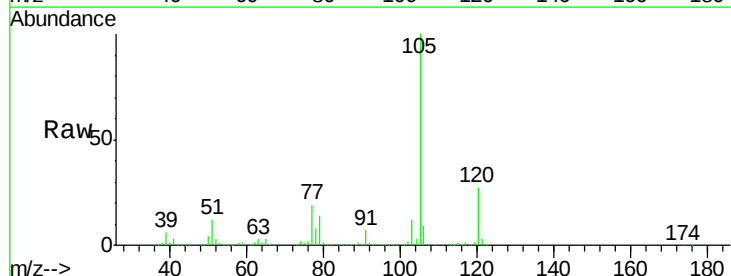
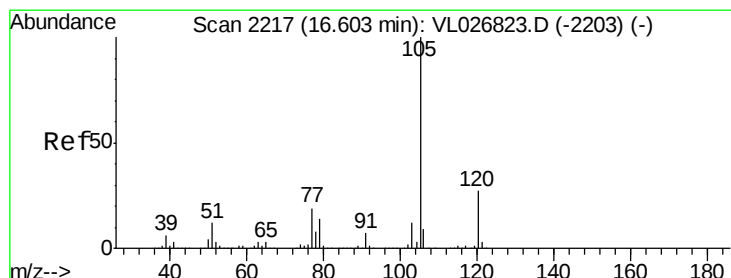
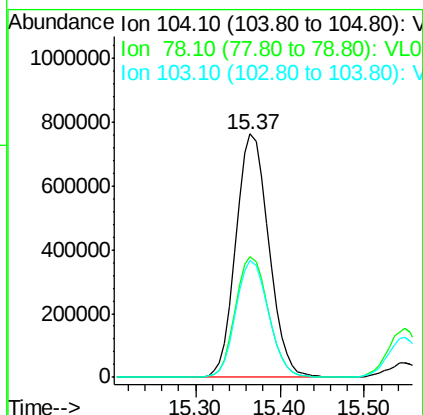
#61
Stvrene
Concen: 8.01 ppbv
RT: 15.37 min Scan# 2014
Delta R.T. 0.00 min
Lab File: VL026823.D
Acq: 9 Feb 2016 16:54

Tot Ion:104 Resp: 2022934
Ion Ratio Lower Upper
104 100
78 49.7 39.8 59.6
103 47.8 38.2 57.4

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

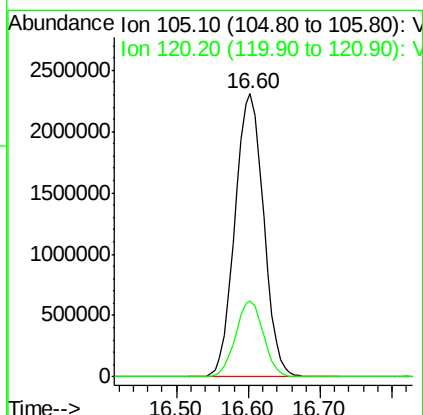
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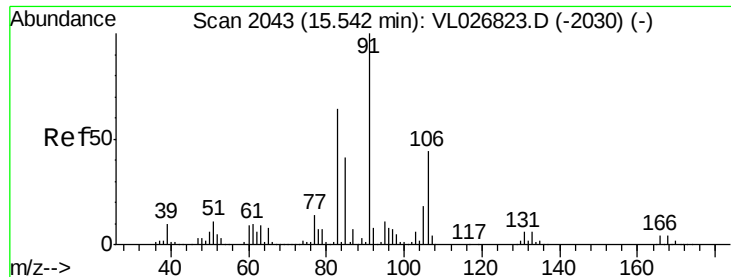
MMDadoda
2/11/2016 1:22:48 PM



#62
Isopropylbenzene
Concen: 6.98 ppbv
RT: 16.60 min Scan# 2217
Delta R.T. 0.00 min
Lab File: VL026823.D
Acq: 9 Feb 2016 16:54

Tgt Ion:105 Resp: 6394790
Ion Ratio Lower Upper
105 100
120 26.2 21.0 31.4





#63

1,1,2,2-Tetrachloroethane

Concen: 7.81 ppbv

RT: 15.54 min Scan# 2043

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 83 Resp: 3543367

Ion Ratio Lower Upper

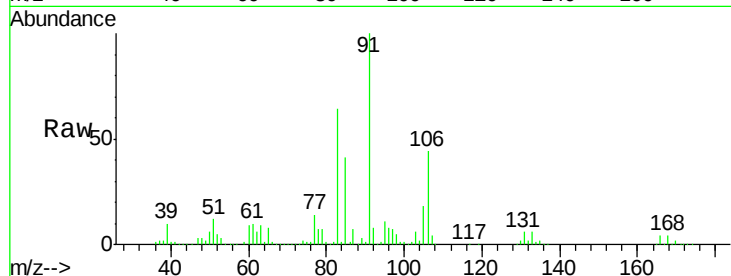
83 100

131 9.4 4.7 14.1

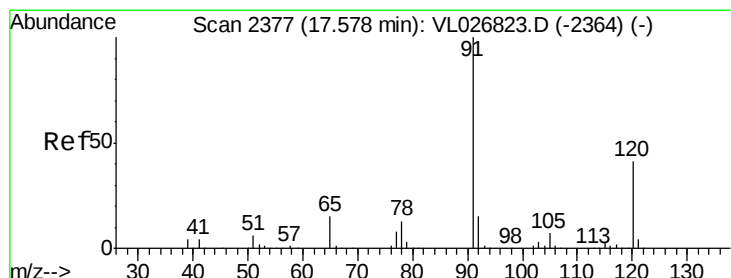
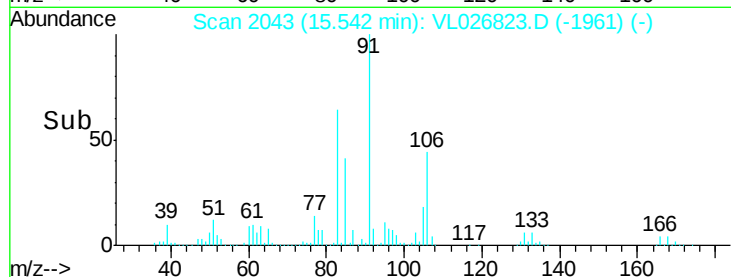
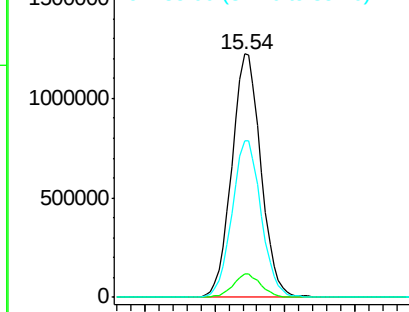
85 64.6 32.3 96.9

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2/11/2016 1:22:48 PM



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



#64

n-propylbenzene

Concen: 6.44 ppbv

RT: 17.58 min Scan# 2377

Delta R.T. 0.00 min

Lab File: VL026823.D

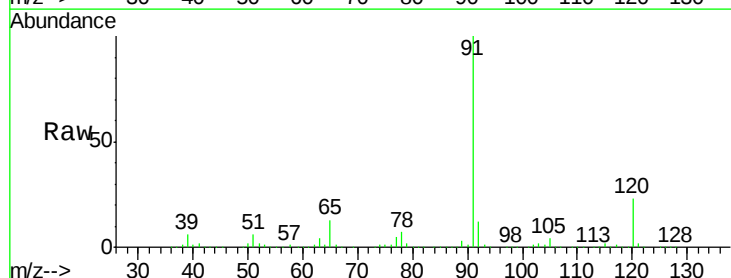
Acq: 9 Feb 2016 16:54

Tgt Ion:120 Resp: 1654545

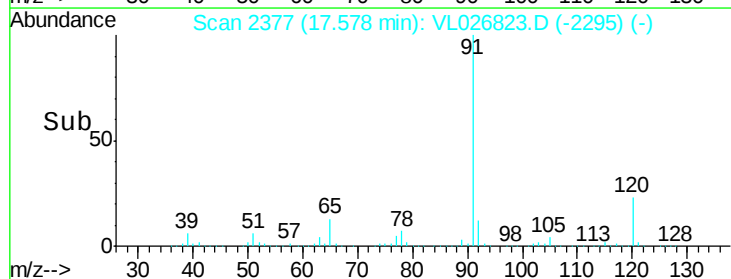
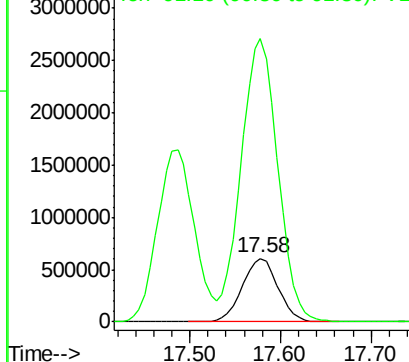
Ion Ratio Lower Upper

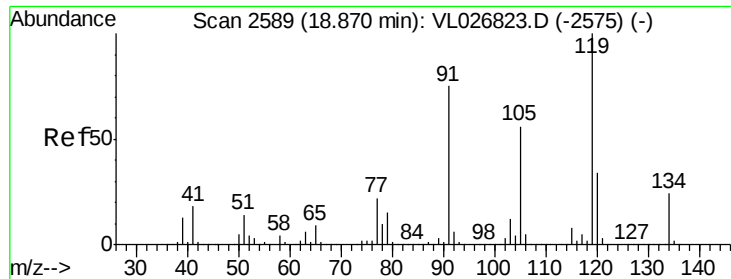
120 100

91 453.8 363.0 544.6



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





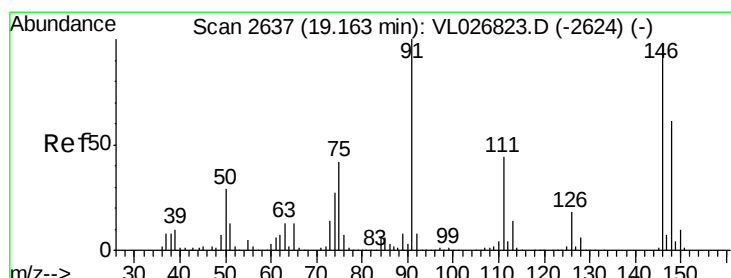
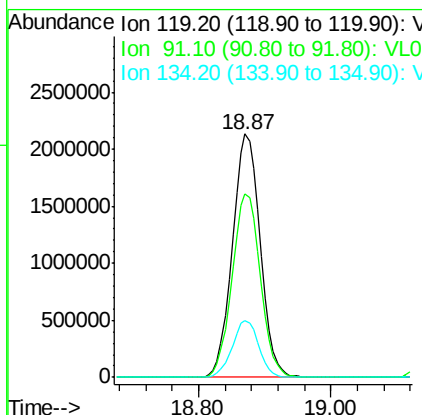
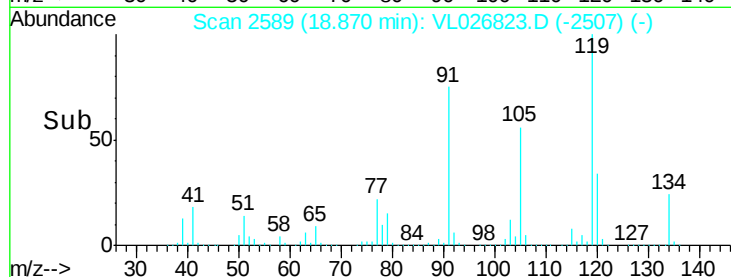
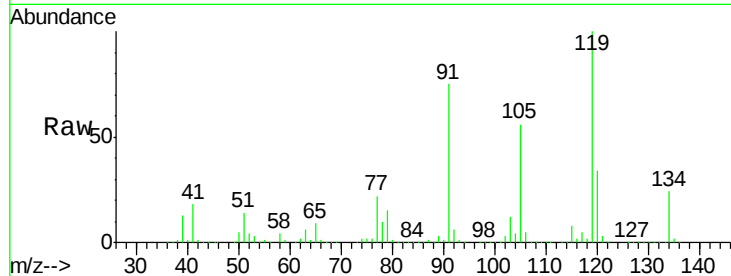
#65
tert-Butylbenzene
Concen: 6.70 ppbv
RT: 18.87 min Scan# 2589
Delta R.T. 0.00 min
Lab File: VL026823.D
Acq: 9 Feb 2016 16:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion:119 Resp: 6208664
Ion Ratio Lower Upper
119 100
91 76.9 61.5 92.3
134 22.4 17.9 26.9

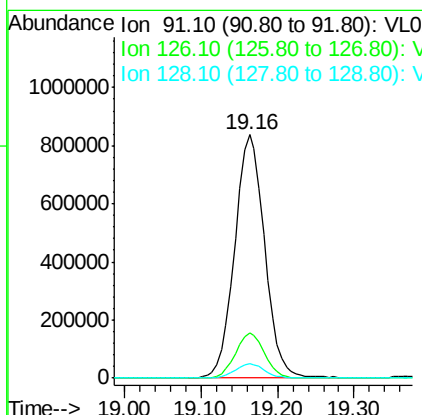
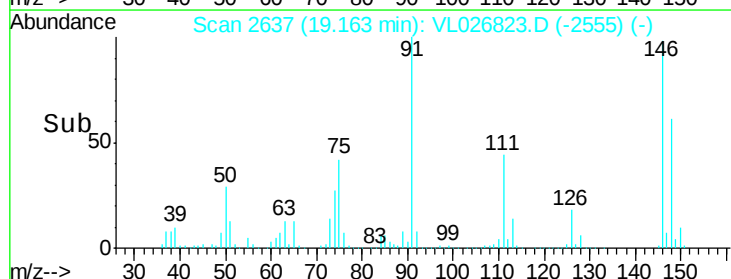
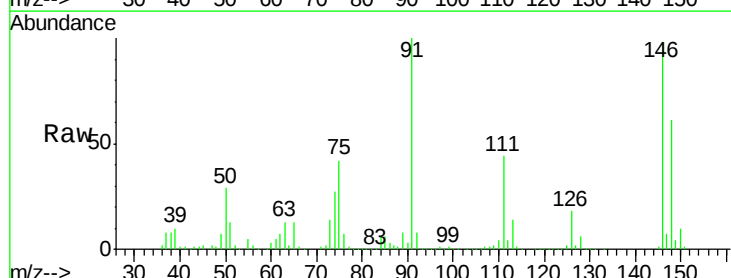
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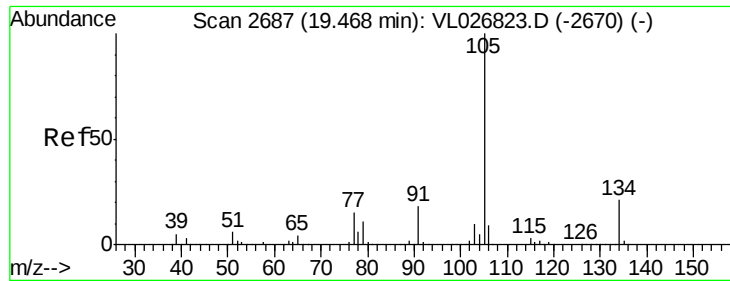
MMDadoda
2/11/2016 1:22:48 PM



#66
Benzyl Chloride
Concen: 6.48 ppbv
RT: 19.16 min Scan# 2637
Delta R.T. 0.00 min
Lab File: VL026823.D
Acq: 9 Feb 2016 16:54

Tgt Ion: 91 Resp: 2265231
Ion Ratio Lower Upper
91 100
126 18.2 14.6 21.8
128 5.7 4.6 6.8





#67

sec-Butylbenzene

Concen: 5.79 ppbv

RT: 19.47 min Scan# 2687

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 105 Resp: 7852813

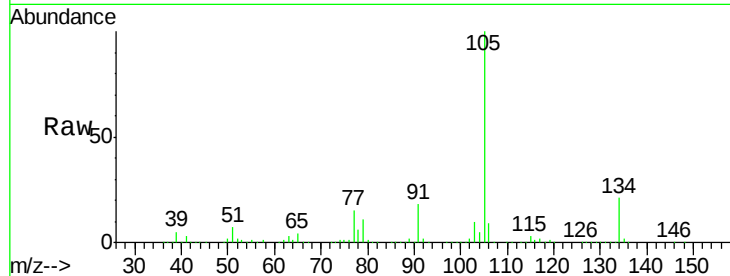
Ion Ratio Lower Upper

105 100

134 20.1 16.1 24.1

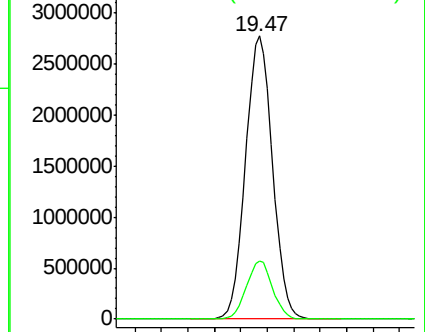
Manual Integrations
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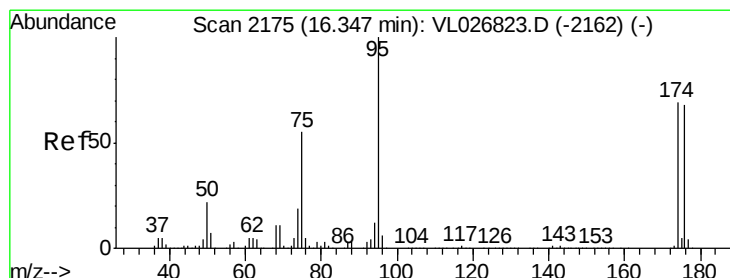
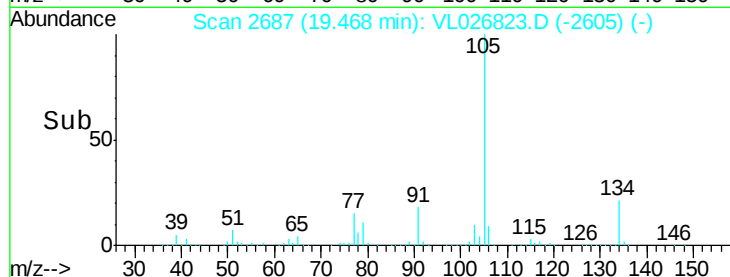


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 7.97 ppbv

RT: 16.35 min Scan# 2175

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

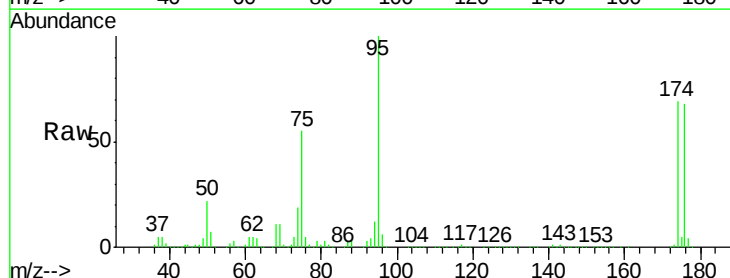
Tgt Ion: 95 Resp: 2997558

Ion Ratio Lower Upper

95 100

174 69.5 55.6 83.4

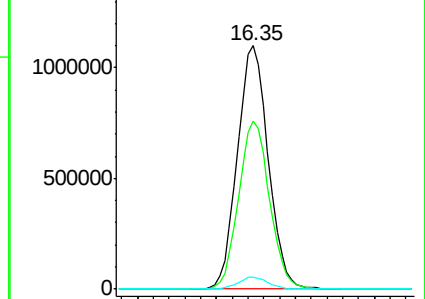
175 4.9 3.9 5.9



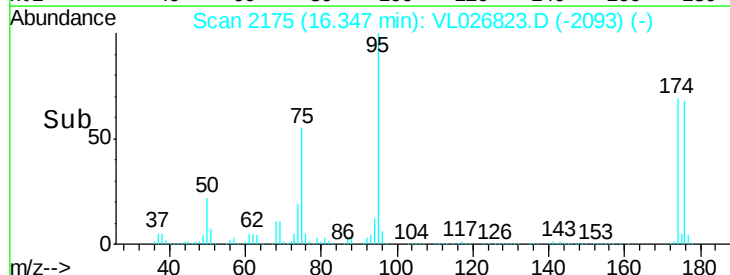
Abundance Ion 95.10 (94.80 to 95.80): VL0

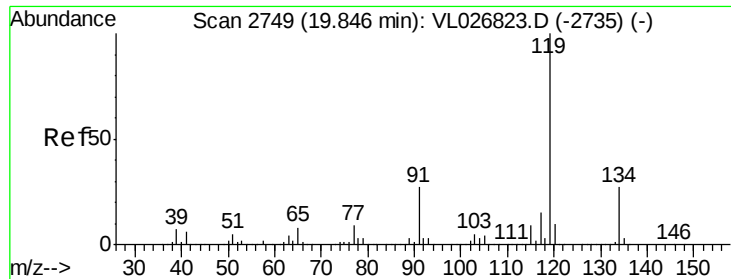
Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



Time-->





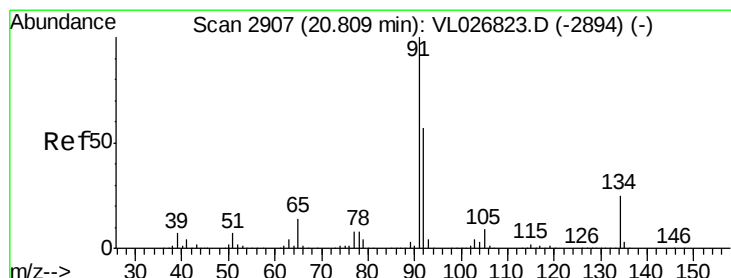
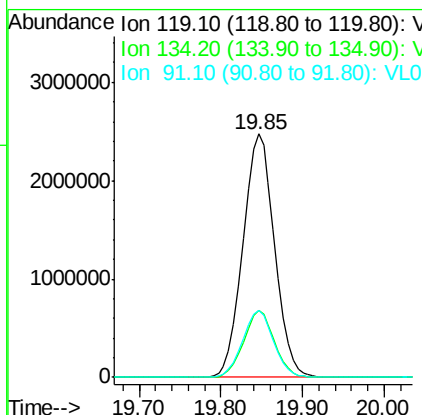
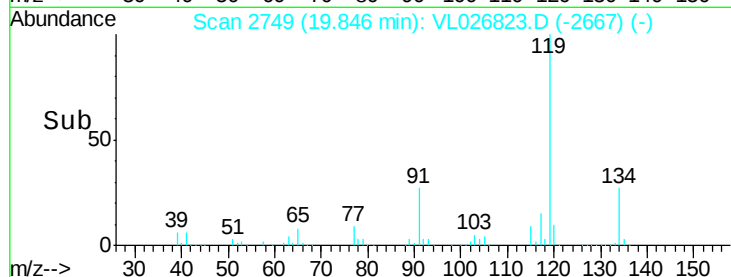
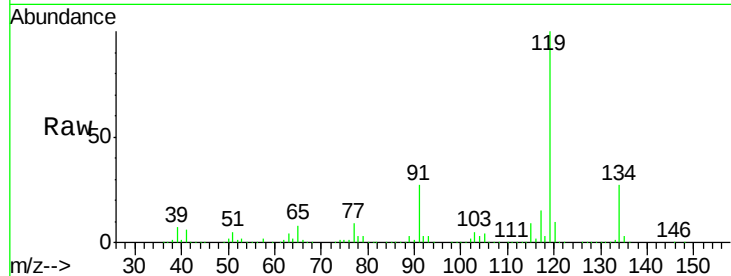
#69
 p-Isopropyltoluene
 Concen: 6.08 ppbv
 RT: 19.85 min Scan# 2749
 Delta R.T. 0.00 min
 Lab File: VL026823.D
 Acq: 9 Feb 2016 16:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 119 Resp: 6657181
 Ion Ratio Lower Upper
 119 100
 134 26.6 21.3 31.9
 91 26.9 21.5 32.3

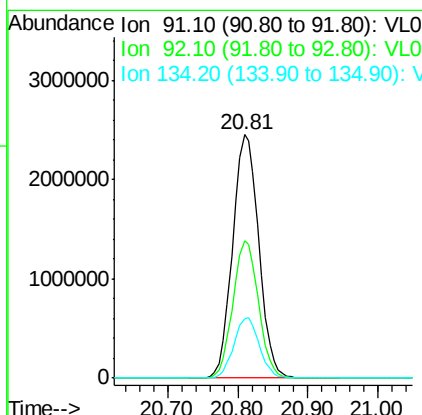
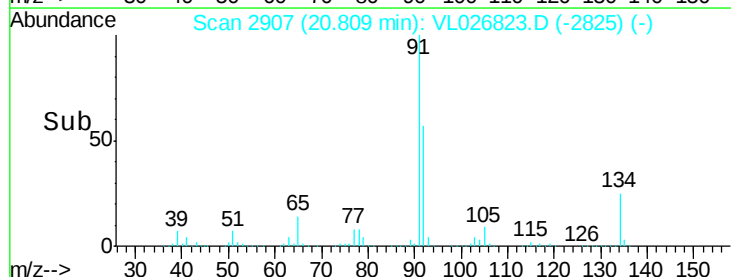
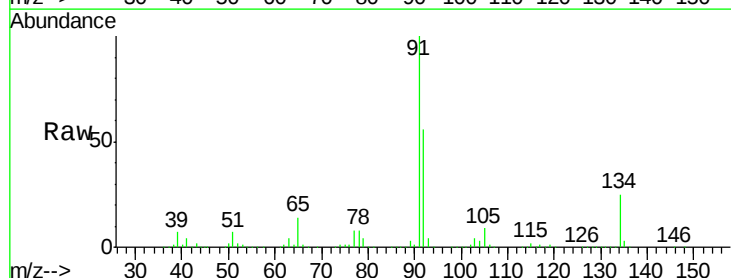
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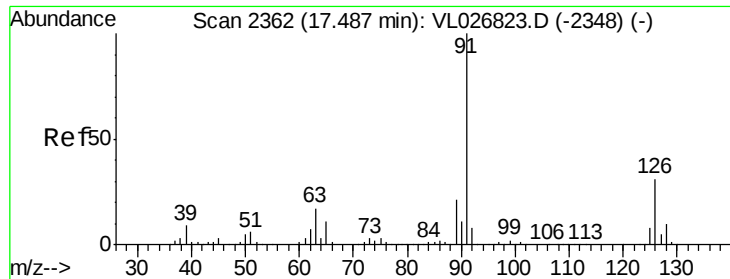
MMDadoda
 2/11/2016 1:22:48 PM



#70
 n-Butylbenzene
 Concen: 5.58 ppbv
 RT: 20.81 min Scan# 2907
 Delta R.T. 0.00 min
 Lab File: VL026823.D
 Acq: 9 Feb 2016 16:54

Tgt Ion: 91 Resp: 6358617
 Ion Ratio Lower Upper
 91 100
 92 55.3 44.2 66.4
 134 24.1 19.3 28.9





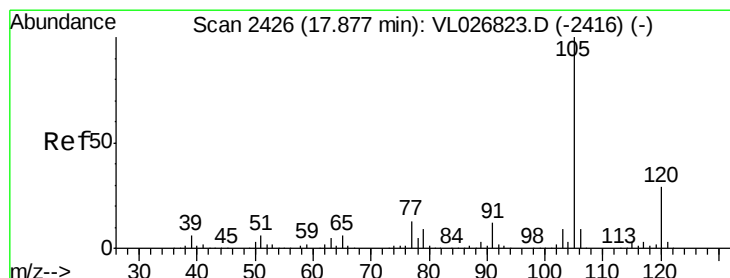
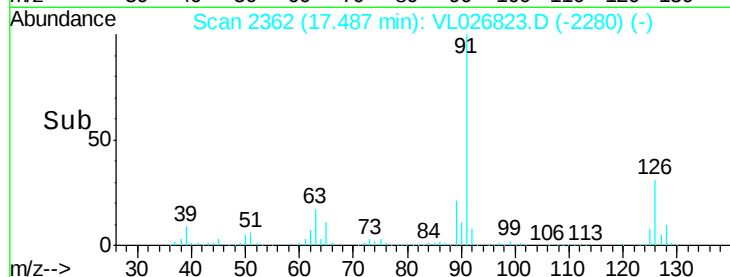
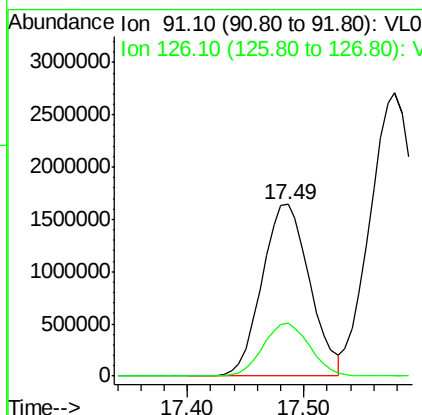
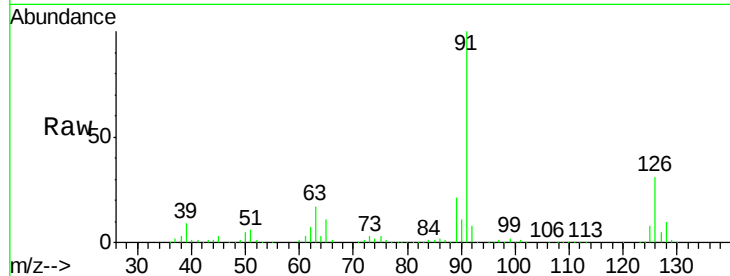
#71
 2-Chlorotoluene
 Concen: 6.55 ppbv
 RT: 17.49 min Scan# 2362
 Delta R.T. 0.00 min
 Lab File: VL026823.D
 Acq: 9 Feb 2016 16:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 91 Resp: 4666501
 Ion Ratio Lower Upper
 91 100
 126 30.5 12.2 48.8

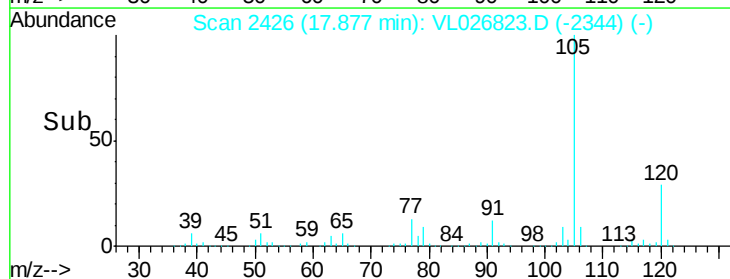
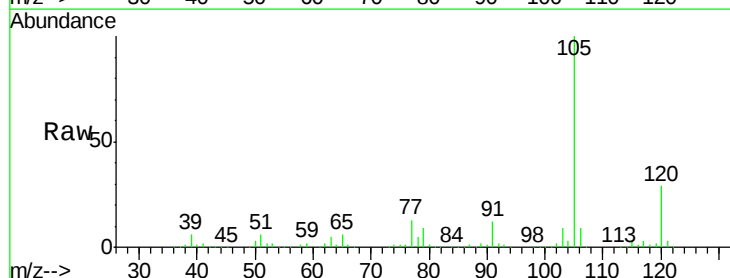
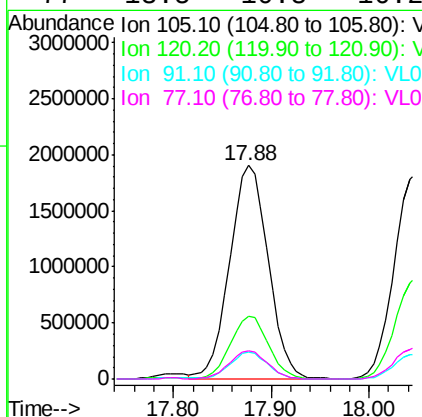
Manual Integrations
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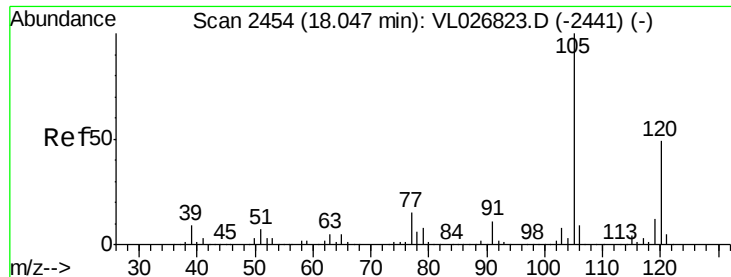
MMDadoda
 2/11/2016 1:22:48 PM



#72
 4-Ethyltoluene
 Concen: 6.53 ppbv
 RT: 17.88 min Scan# 2426
 Delta R.T. 0.00 min
 Lab File: VL026823.D
 Acq: 9 Feb 2016 16:54

Tgt Ion: 105 Resp: 5218742
 Ion Ratio Lower Upper
 105 100
 120 29.7 23.8 35.6
 91 12.8 10.2 15.4
 77 13.5 10.8 16.2





#73

1,3,5-Trimethylbenzene

Concen: 6.35 ppbv

RT: 18.05 min Scan# 2454

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:105 Resp: 4987599

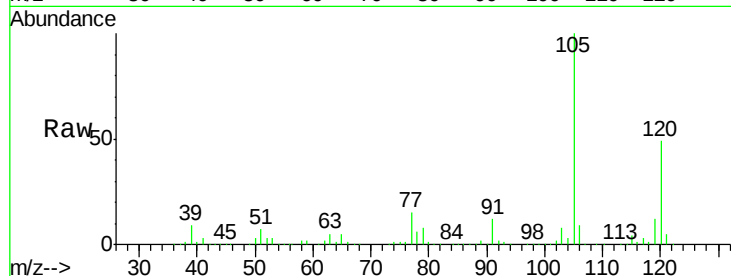
Ion Ratio Lower Upper

105 100

120 49.2 39.4 59.0

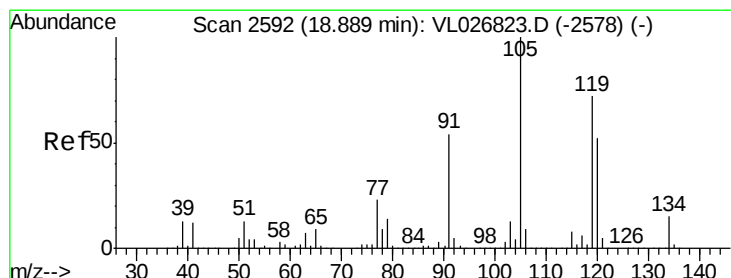
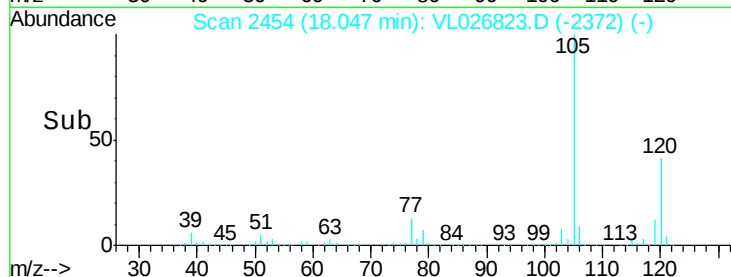
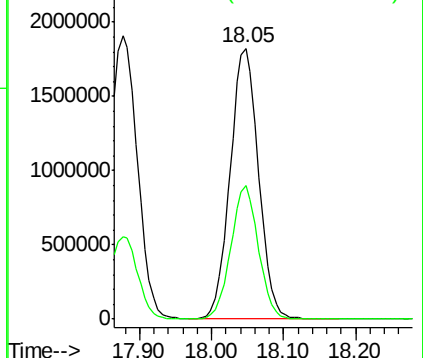
Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 6.41 ppbv

RT: 18.89 min Scan# 2592

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

Tgt Ion:105 Resp: 5575110

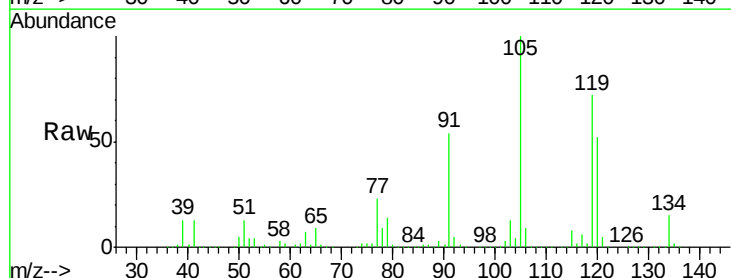
Ion Ratio Lower Upper

105 100

120 51.6 41.3 61.9

91 54.1 43.3 64.9

77 22.9 18.3 27.5

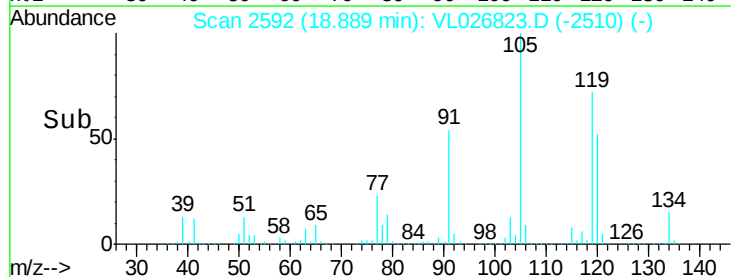
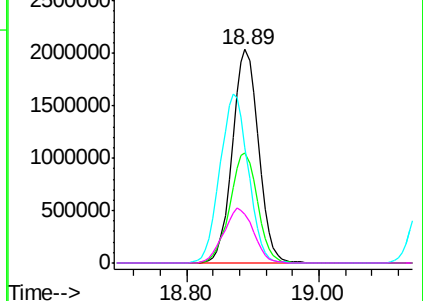


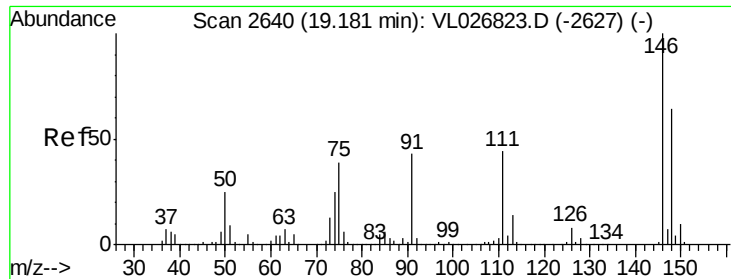
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): V

Ion 77.10 (76.80 to 77.80): V





#75

1,3-Dichlorobenzene

Concen: 5.68 ppbv

RT: 19.18 min Scan# 2640

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

Instrument :

MSVOA_L

ClientSampled :

VSTDICCC010

Tot Ion:146 Resp: 3245325

Ion Ratio Lower Upper

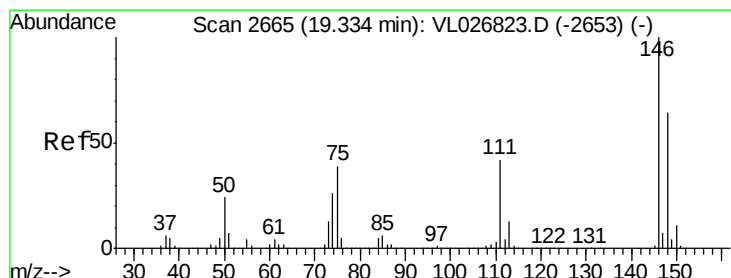
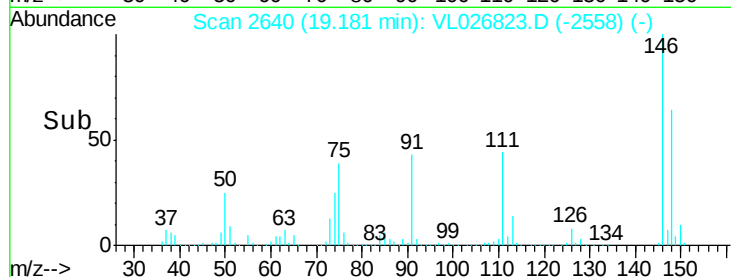
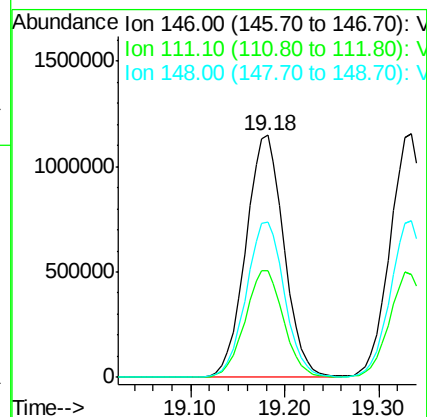
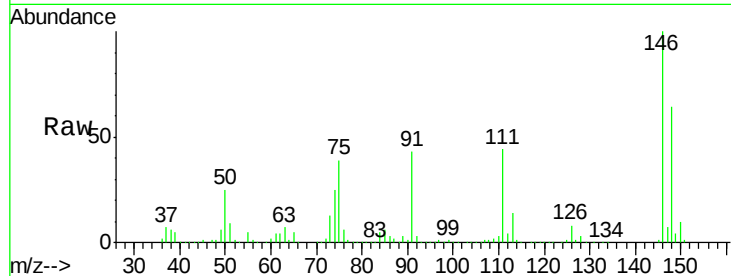
146 100

111 44.2 22.1 66.3

148 64.4 32.2 96.6

Manual Integrations
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2/11/2016 1:22:48 PM



#76

1,4-Dichlorobenzene

Concen: 5.64 ppbv

RT: 19.33 min Scan# 2665

Delta R.T. 0.00 min

Lab File: VL026823.D

Acq: 9 Feb 2016 16:54

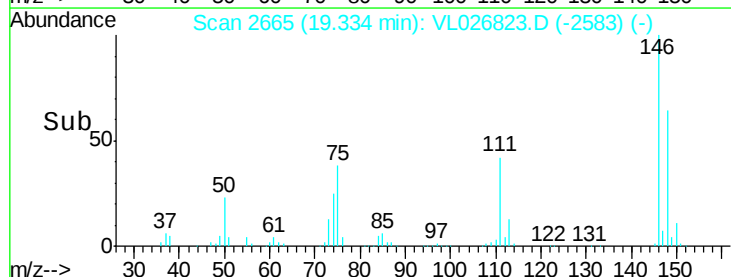
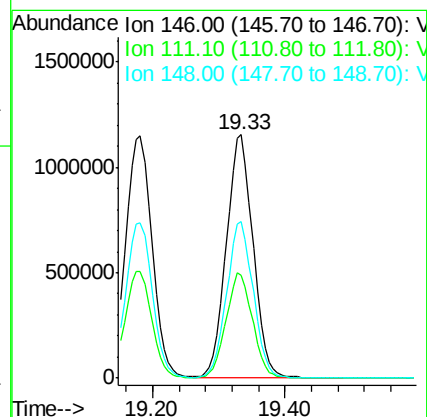
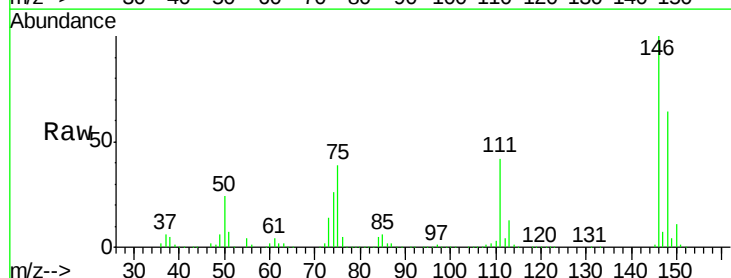
Tgt Ion:146 Resp: 3230899

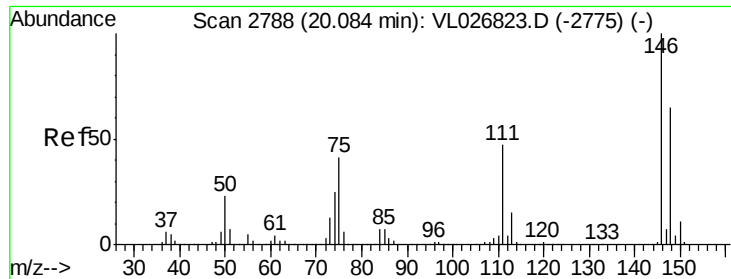
Ion Ratio Lower Upper

146 100

111 43.2 21.6 64.8

148 64.4 32.2 96.6





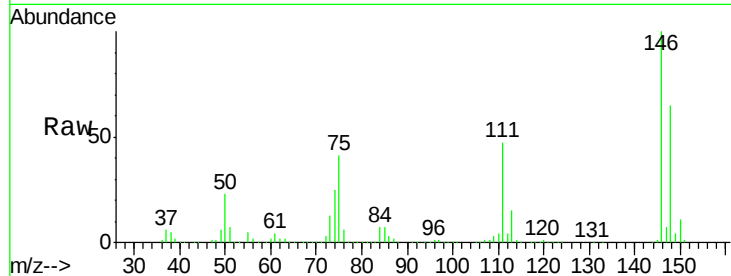
#77
 1,2-Dichlorobenzene
 Concen: 5.18 ppbv
 RT: 20.08 min Scan# 2788
 Delta R.T. 0.00 min
 Lab File: VL026823.D
 Acq: 9 Feb 2016 16:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

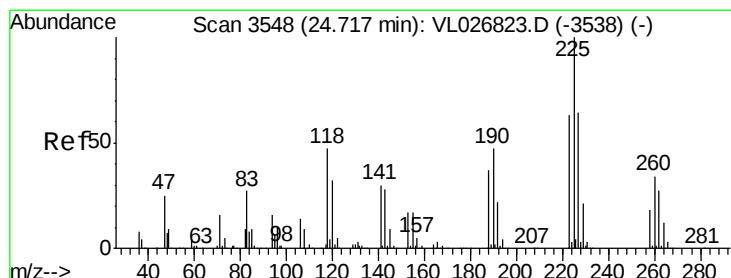
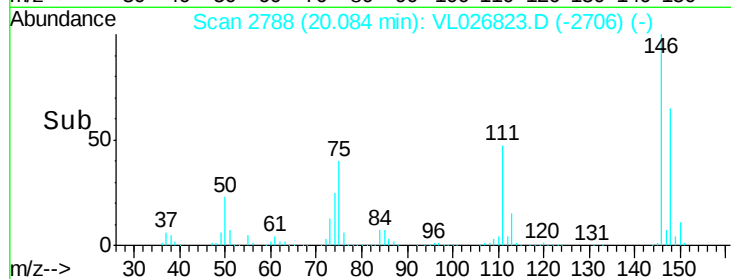
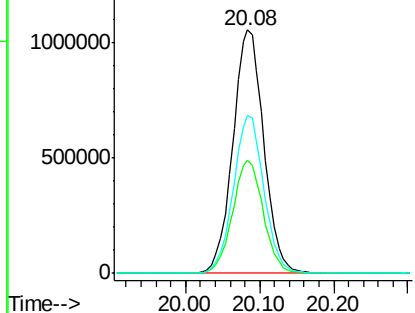
Tot Ion	Ratio	Lower	Upper
146	100		
111	46.2	23.1	69.3
148	64.3	32.1	96.5

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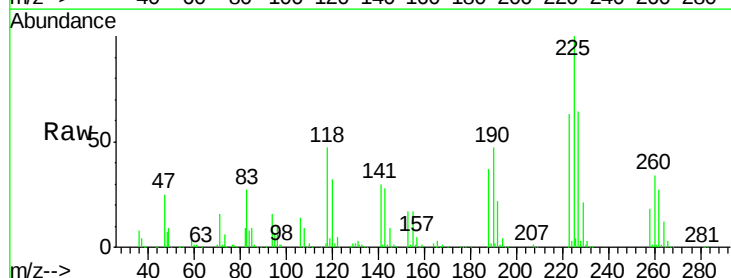


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

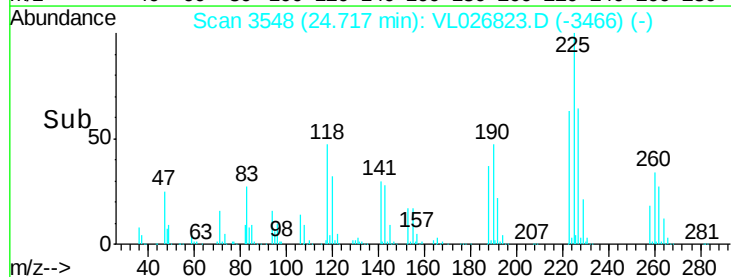
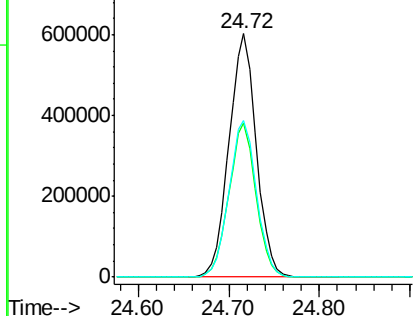


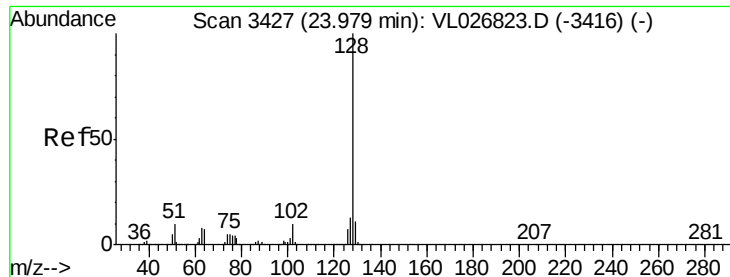
#78
 Hexachloro-1,3-Butadiene
 Concen: 4.33 ppbv
 RT: 24.72 min Scan# 3548
 Delta R.T. 0.00 min
 Lab File: VL026823.D
 Acq: 9 Feb 2016 16:54

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.2	75.2
227	65.1	52.1	78.1



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





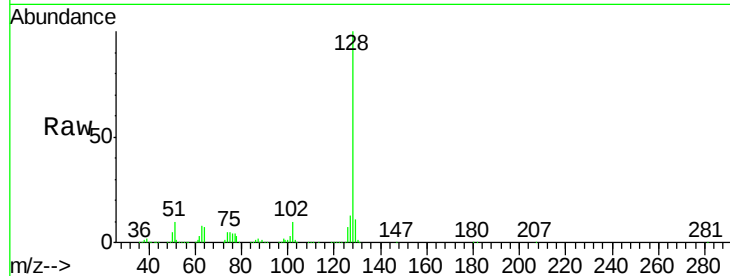
#79
Naphthalene
Concen: 3.30 ppbv
RT: 23.98 min Scan# 3427
Delta R.T. 0.00 min
Lab File: VL026823.D
Acq: 9 Feb 2016 16:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

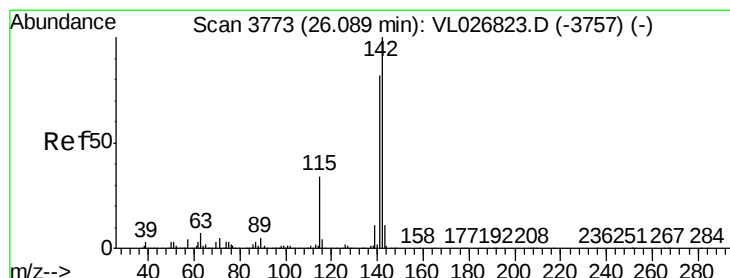
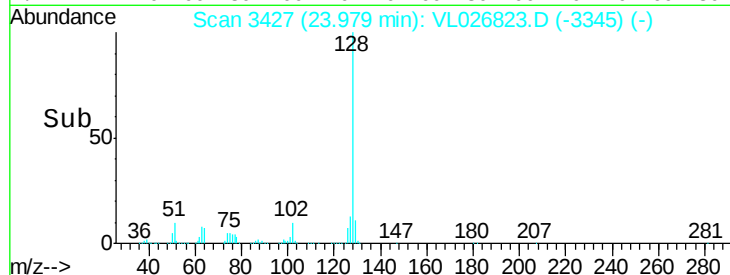
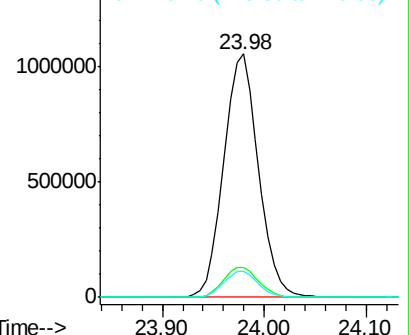
Tot Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.0	15.0
129	10.9	8.7	13.1

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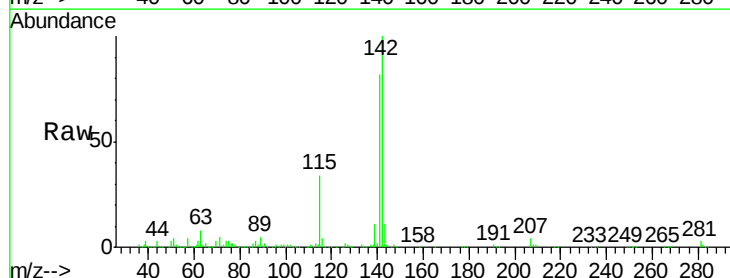


Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V

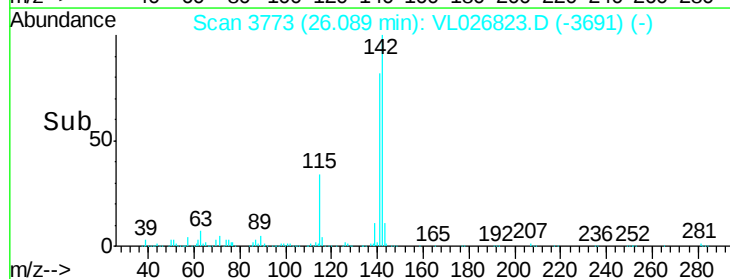
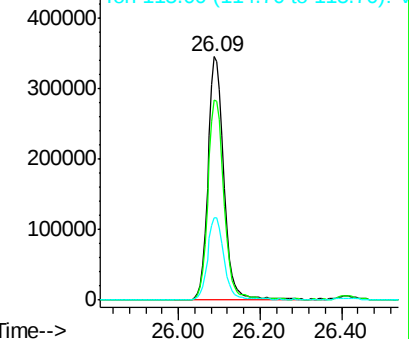


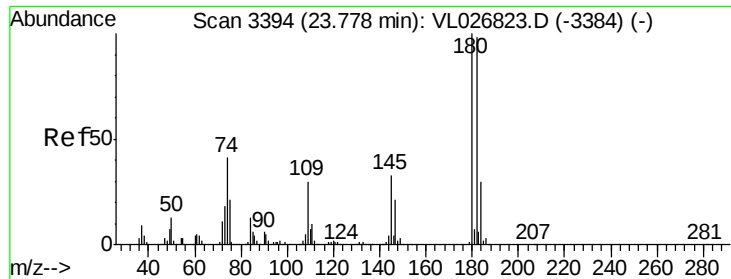
#80
Naphthalene, 2-methyl-
Concen: 7.27 ppbv
RT: 26.09 min Scan# 3773
Delta R.T. 0.00 min
Lab File: VL026823.D
Acq: 9 Feb 2016 16:54

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.0	67.2	100.8
115	34.4	27.5	41.3



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





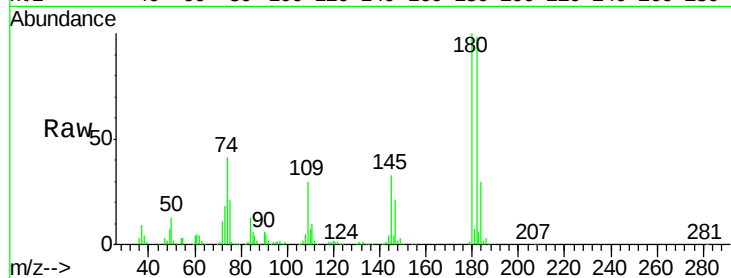
#81
 1,2,4-Trichlorobenzene
 Concen: 4.03 ppbv
 RT: 23.78 min Scan# 3394
 Delta R.T. 0.00 min
 Lab File: VL026823.D
 Acq: 9 Feb 2016 16:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.6	77.3	115.9
184	30.6	24.5	36.7

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Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

