

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL020916\
 Data File : VL026839.D
 Acq On : 10 Feb 2016 4:13
 Operator : SY/AP
 Sample : H1388-01DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-1DUP

Manual Integrations
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 2/11/2016 1:23:46 PM

Quant Time: Feb 10 08:52:34 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 03:14:04 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.70	49	1280468	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.37	114	3388912	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.79	117	1663799	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.33	95	1468466	12.29	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	122.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.67	85	204678	0.74	ppbv	96
3) Chlorodifluoromethane	3.60	51	845793m	4.07	ppbv	
4) Chloromethane	3.78	50	59558	0.73	ppbv	95
9) Propene	3.64	41	190176	3.39	ppbv #	72
10) Heptane	9.39	43	67399	0.37	ppbv	92
11) Trichlorofluoromethane	4.73	101	141883	0.43	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	5.34	101	38575	0.17	ppbv	99
13) Ethanol	4.37	45	6545478	678.13	ppbv	98
15) Acetone	4.63	43	17556702	99.80	ppbv #	66
19) Isopropyl Alcohol	4.81	45	4276354	68.14	ppbv #	92
20) Methylene Chloride	5.20	84	60687	0.67	ppbv	97
25) Ethyl Acetate	6.71	43	596049	2.26	ppbv #	93
29) Chloroform	6.80	83	32267	0.14	ppbv	95
30) Cyclohexane	8.33	84	32985m	0.27	ppbv	
34) 2-Butanone	6.25	43	98730	0.59	ppbv	98
35) Carbon Tetrachloride	8.21	117	28775	0.12	ppbv	93
36) Benzene	8.07	78	193418	0.72	ppbv	99
38) Trichloroethene	9.12	130	6879	0.06	ppbv #	83
43) Methyl Methacrylate	9.32	69	68939	0.73	ppbv	94
52) Tetrachloroethene	12.84	164	117174	1.11	ppbv	97
53) Toluene	11.28	91	1375438	4.55	ppbv	99
58) Ethyl Benzene	14.46	91	85728	0.43	ppbv	94
59) m/p-Xylene	14.74	91	178152	1.04	ppbv	100
60) o-Xylene	15.54	91	60676	0.32	ppbv	100
61) Styrene	15.36	104	15662	0.25	ppbv	99
72) 4-Ethyltoluene	17.87	105	31494	0.18	ppbv #	95
73) 1,3,5-Trimethylbenzene	18.04	105	26747	0.16	ppbv	93
74) 1,2,4-Trimethylbenzene	18.88	105	85677	0.45	ppbv #	69
79) Naphthalene	23.99	128	13933	0.15	ppbv #	94

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

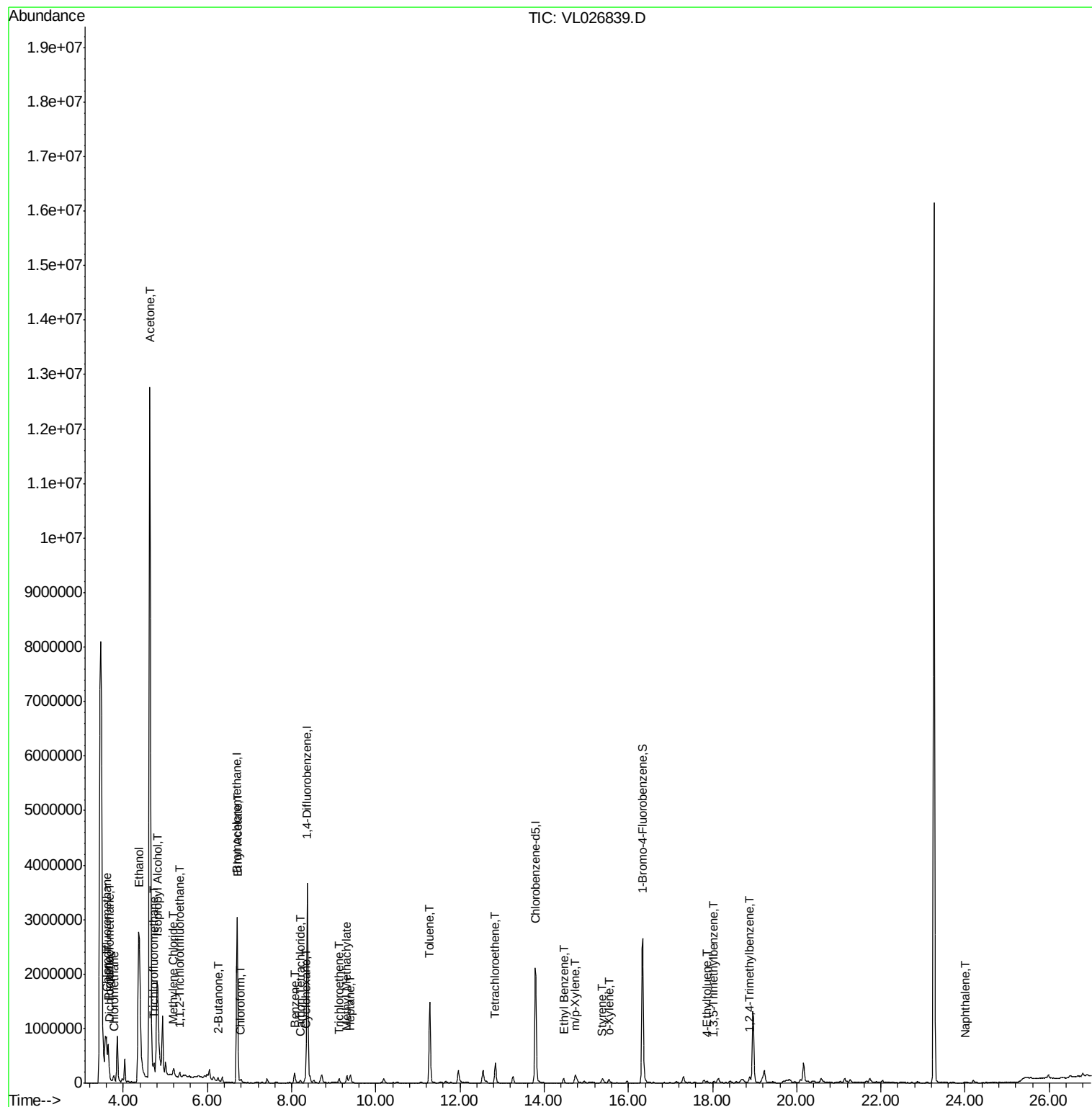
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL020916\
Data File : VL026839.D
Acq On : 10 Feb 2016 4:13
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ALS Vial : 1 Sample Multiplier: 1

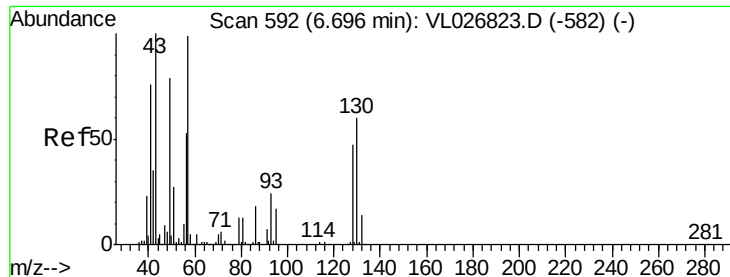
Instrument :
MSVOA_L
ClientSampleId :
IAS-1DUP

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Quant Time: Feb 10 08:52:34 2016
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL020916AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb
QLast Update : Wed Feb 10 03:14:04 2016
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.70 min Scan# 593

Delta R.T. 0.01 min

Lab File: VL026839.D

Acq: 10 Feb 2016 4:13

Instrument :

MSVOA_L

ClientSampleId :

IAS-1DUP

Tot Ion: 49 Resp: 1280468

Ion Ratio Lower Upper

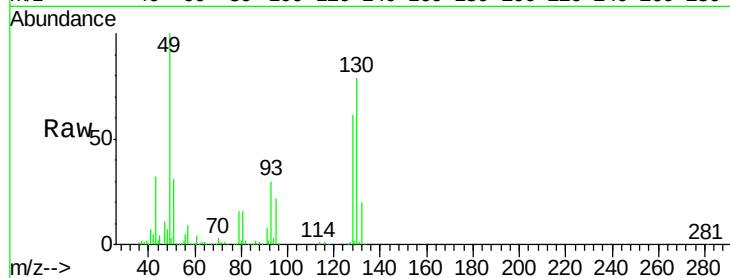
49 100

128 62.7 29.7 89.1

130 80.3 38.3 114.8

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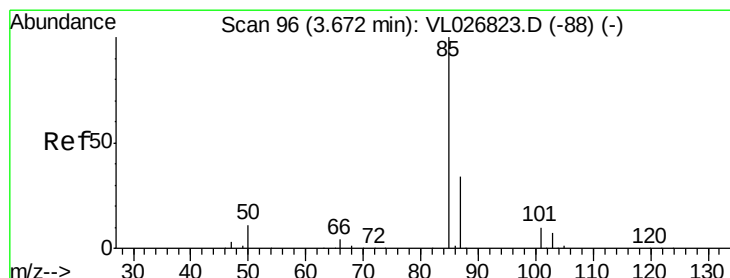
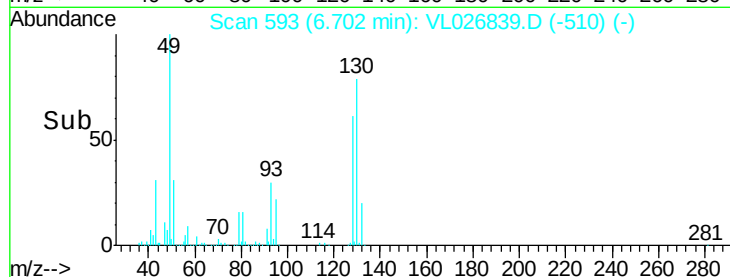
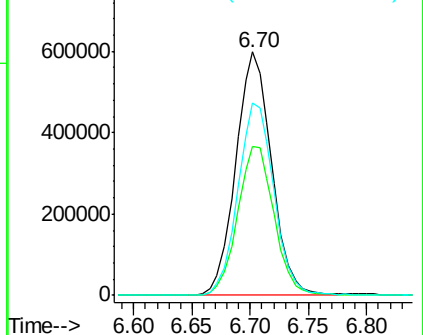
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.74 ppbv

RT: 3.67 min Scan# 96

Delta R.T. -0.00 min

Lab File: VL026839.D

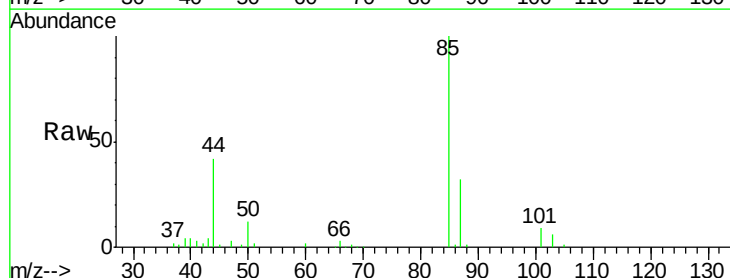
Acq: 10 Feb 2016 4:13

Tgt Ion: 85 Resp: 204678

Ion Ratio Lower Upper

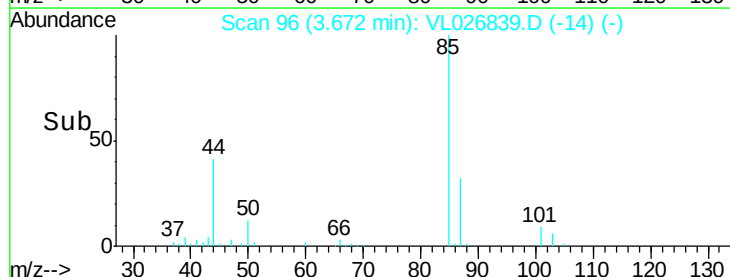
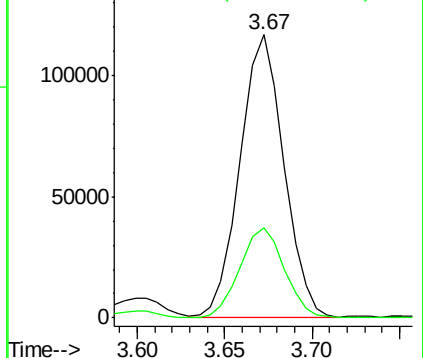
85 100

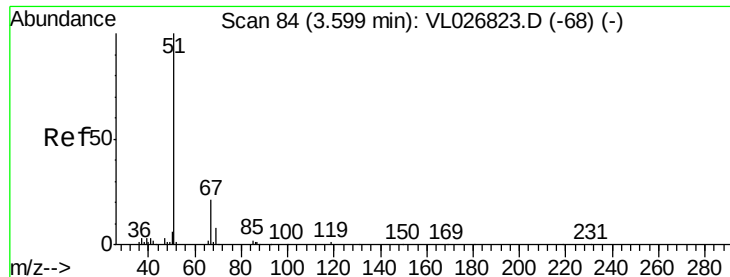
87 31.8 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 4.07 ppbv m

RT: 3.60 min Scan# 84

Delta R.T. -0.00 min

Lab File: VL026839.D

Acq: 10 Feb 2016 4:13

Instrument :

MSVOA_L

ClientSampleId :

IAS-1DUP

Tot Ion: 51 Resp: 845793

Ion Ratio Lower Upper

51 100

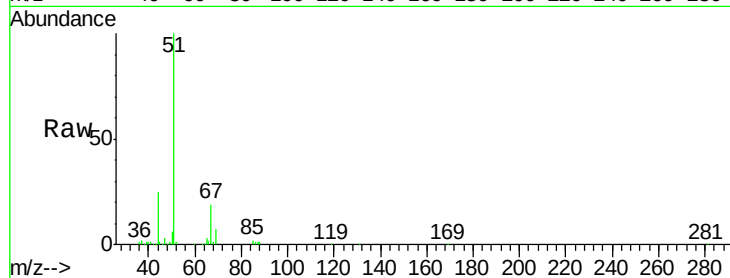
67 20.3 16.4 24.6

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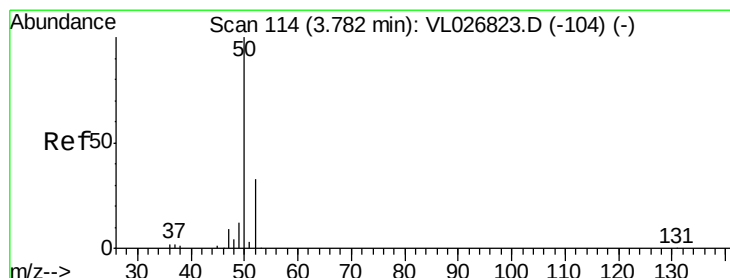
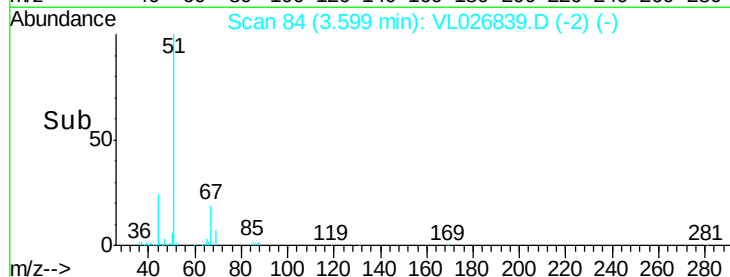
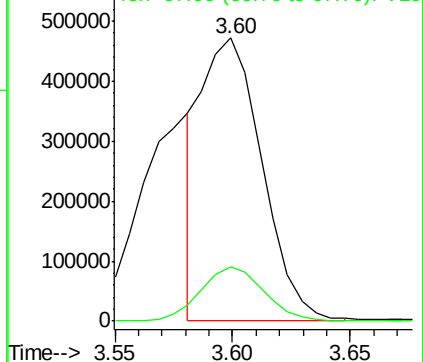
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.73 ppbv

RT: 3.78 min Scan# 114

Delta R.T. -0.00 min

Lab File: VL026839.D

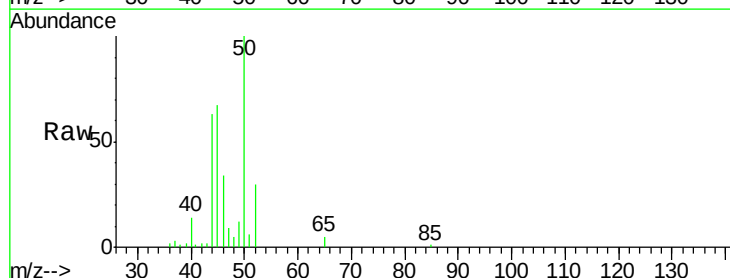
Acq: 10 Feb 2016 4:13

Tgt Ion: 50 Resp: 59558

Ion Ratio Lower Upper

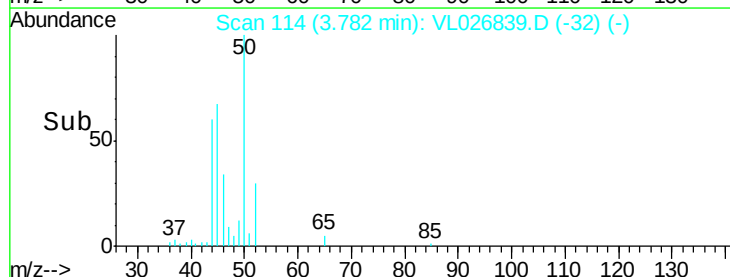
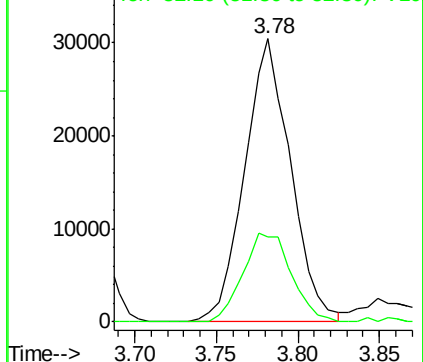
50 100

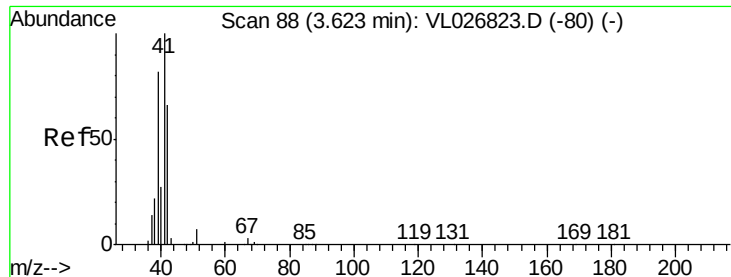
52 30.0 26.3 39.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 3.39 ppbv

RT: 3.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VL026839.D

Acq: 10 Feb 2016 4:13

Instrument :

MSVOA_L

ClientSampleID :

IAS-1DUP

Tot Ion: 41 Resp: 190176

Ion Ratio Lower Upper

41 100

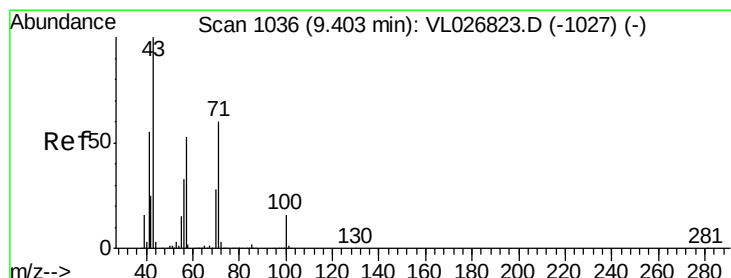
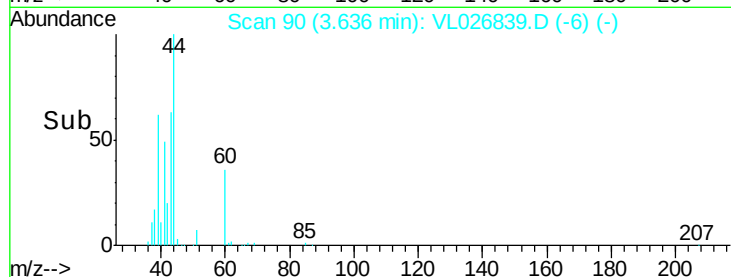
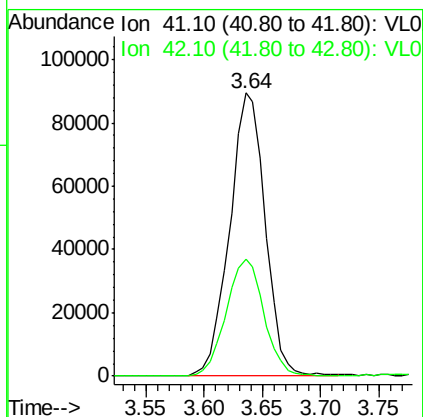
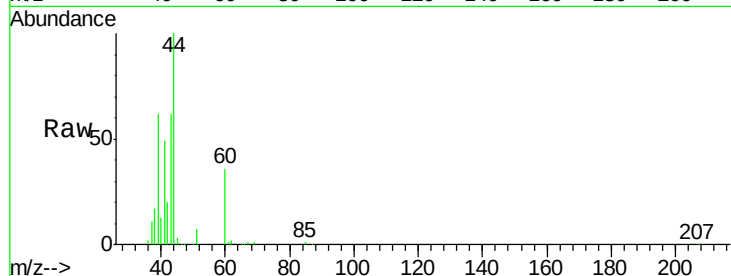
42 44.0 52.8 79.2#

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#10

Heptane

Concen: 0.37 ppbv

RT: 9.39 min Scan# 1034

Delta R.T. -0.01 min

Lab File: VL026839.D

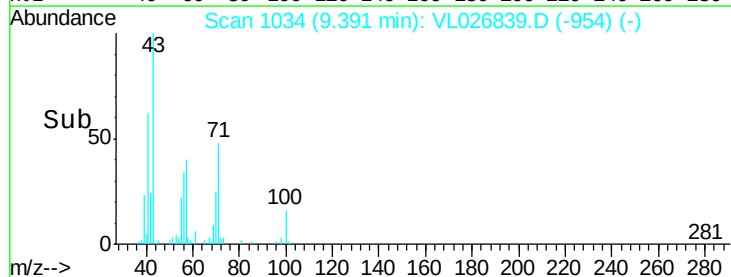
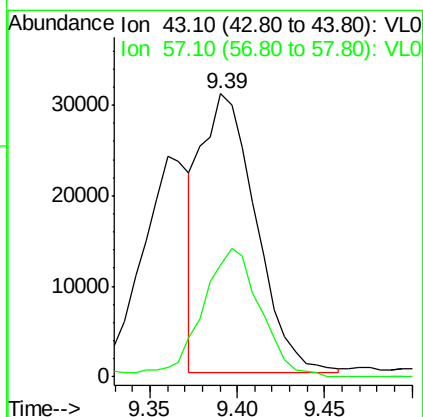
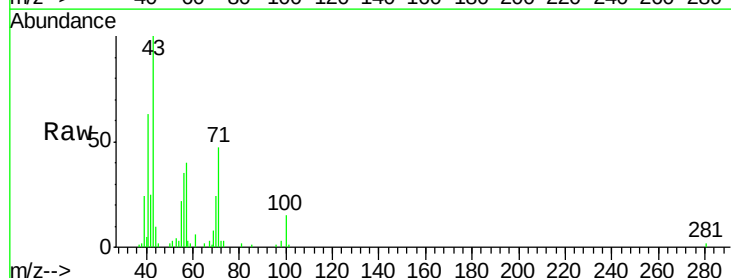
Acq: 10 Feb 2016 4:13

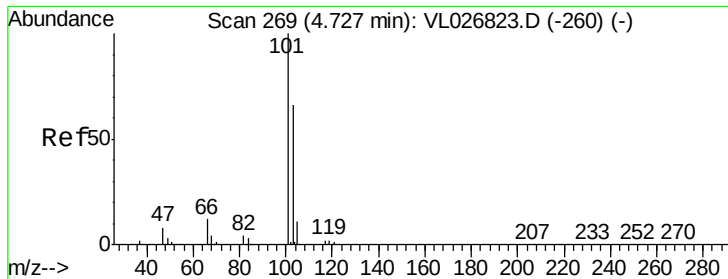
Tgt Ion: 43 Resp: 67399

Ion Ratio Lower Upper

43 100

57 48.9 44.0 66.0





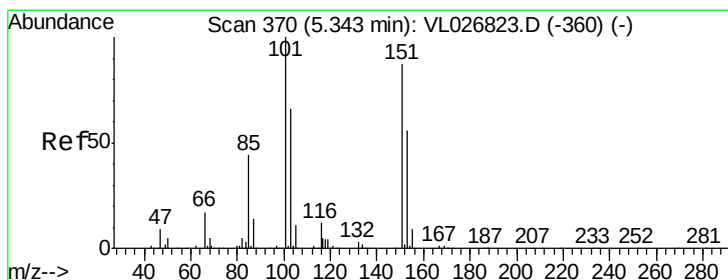
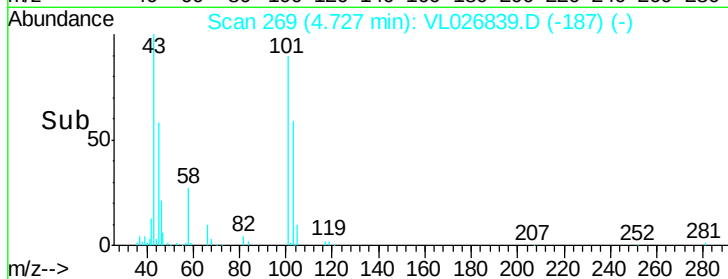
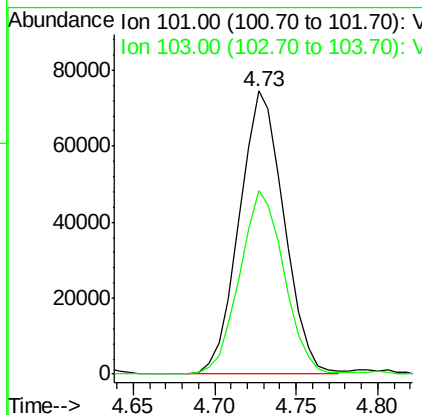
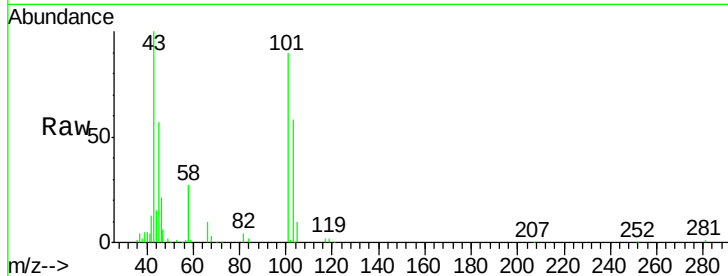
#11
 Trichlorofluoromethane
 Concen: 0.43 ppbv
 RT: 4.73 min Scan# 269
 Delta R.T. -0.00 min
 Lab File: VL026839.D
 Acq: 10 Feb 2016 4:13

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-1DUP

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.0	52.7	79.1

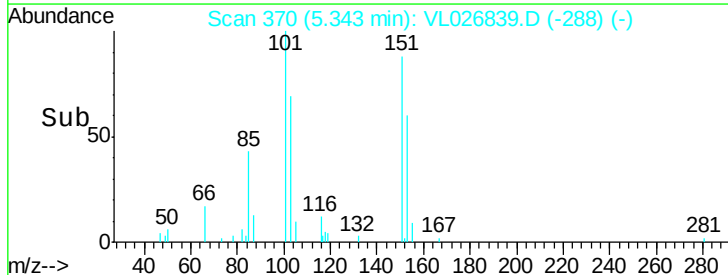
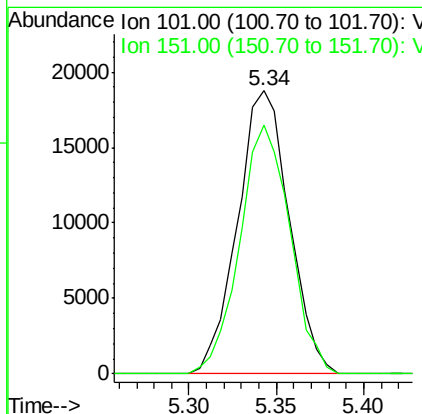
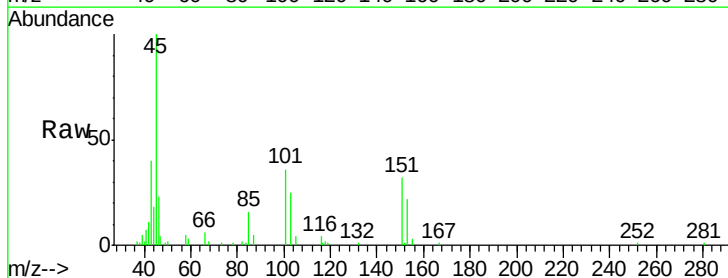
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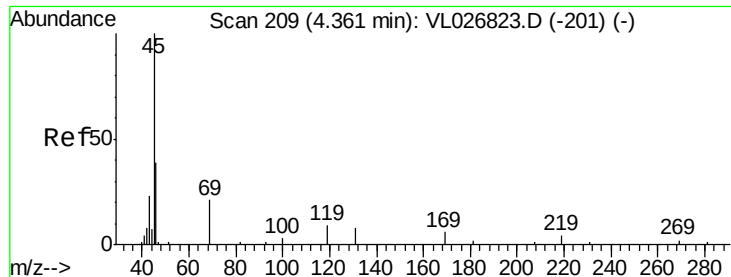
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.17 ppbv
 RT: 5.34 min Scan# 370
 Delta R.T. -0.00 min
 Lab File: VL026839.D
 Acq: 10 Feb 2016 4:13

Tgt Ion	Ratio	Lower	Upper
101	100		
151	85.3	69.4	104.0





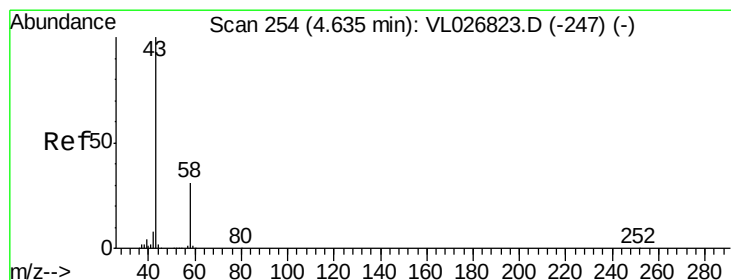
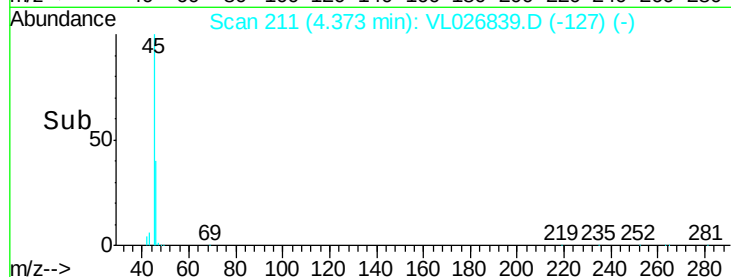
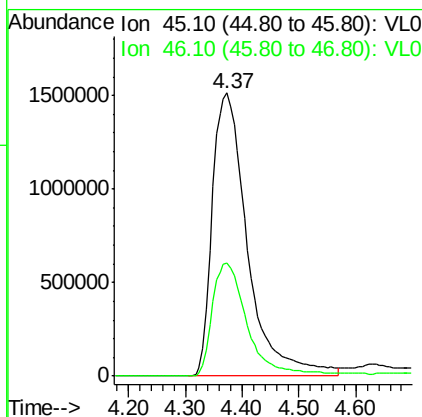
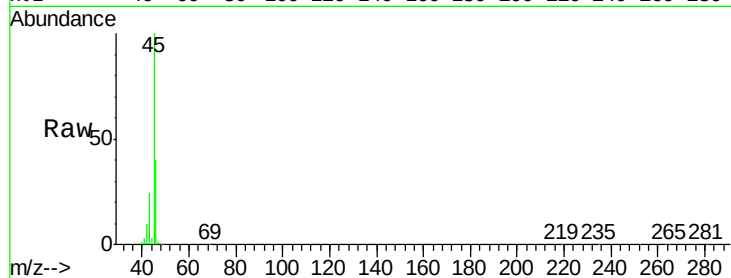
#13
 Ethanol
 Concen: 678.13 ppbv
 RT: 4.37 min Scan# 211
 Delta R.T. 0.01 min
 Lab File: VL026839.D
 Acq: 10 Feb 2016 4:13

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-1DUP

Tot Ion: 45 Resp: 6545478
 Ion Ratio Lower Upper
 45 100
 46 40.7 15.8 63.4

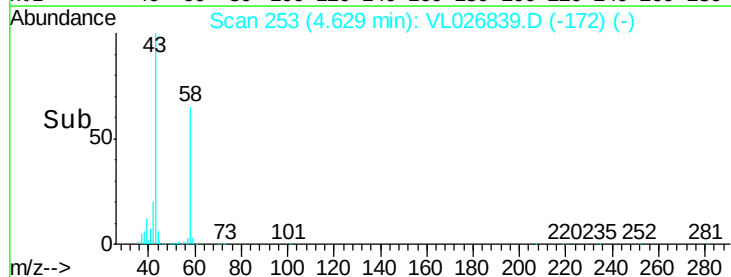
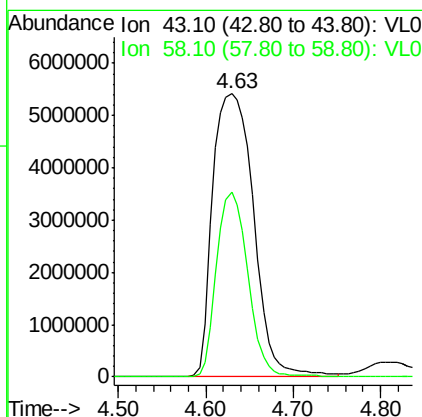
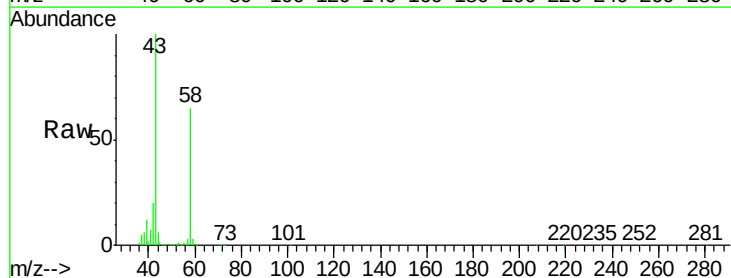
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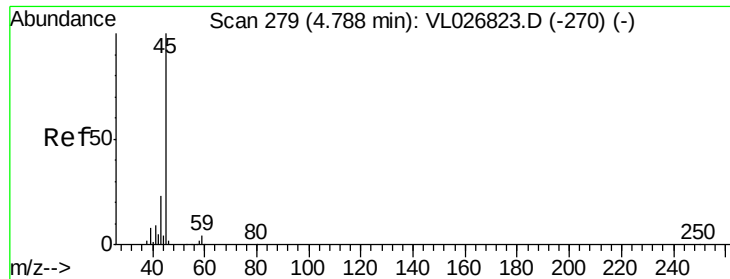
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#15
 Acetone
 Concen: 99.80 ppbv
 RT: 4.63 min Scan# 253
 Delta R.T. -0.01 min
 Lab File: VL026839.D
 Acq: 10 Feb 2016 4:13

Tgt Ion: 43 Resp: 17556702
 Ion Ratio Lower Upper
 43 100
 58 50.5 25.2 37.8#





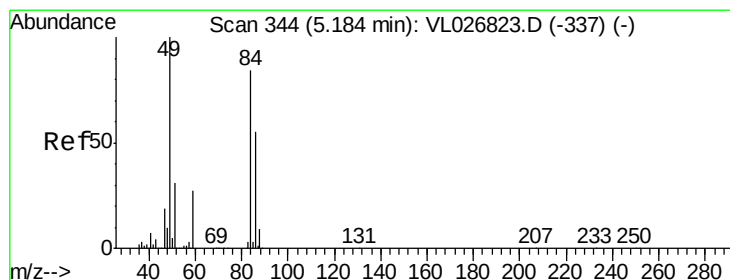
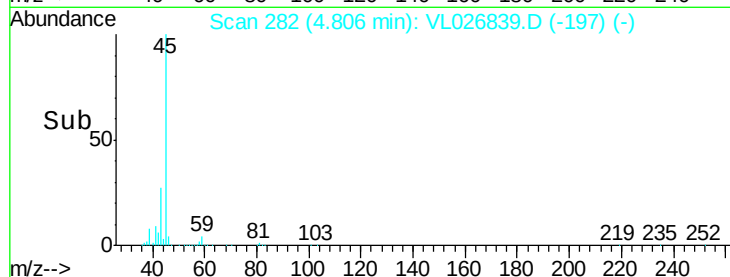
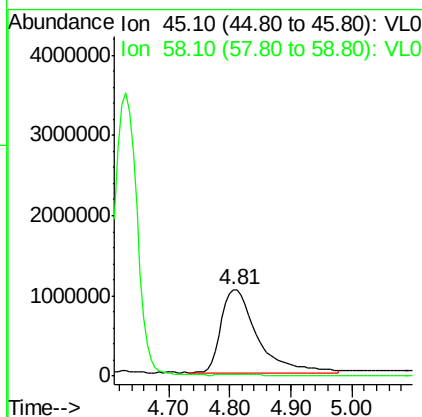
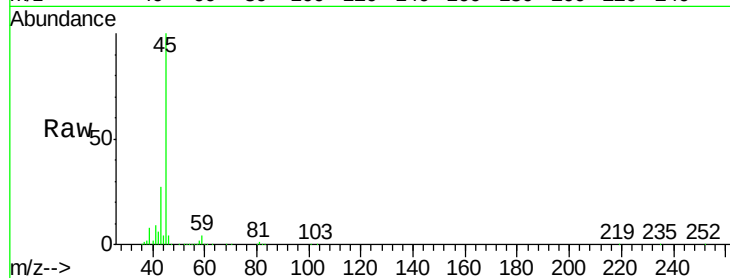
#19
Isopropyl Alcohol
Concen: 68.14 ppbv
RT: 4.81 min Scan# 282
Delta R.T. 0.02 min
Lab File: VL026839.D
Acq: 10 Feb 2016 4:13

Instrument :
MSVOA_L
ClientSampleId :
IAS-1DUP

Tot Ion: 45 Resp: 4276354
Ion Ratio Lower Upper
45 100
58 0.0 2.2 3.2#

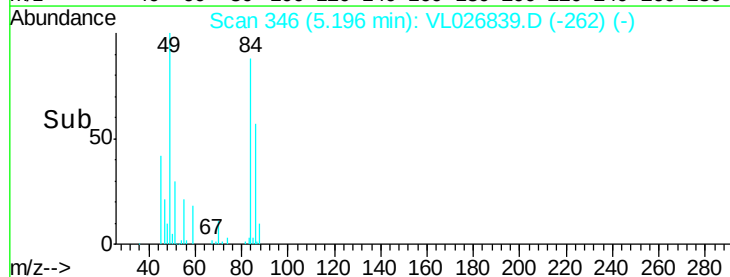
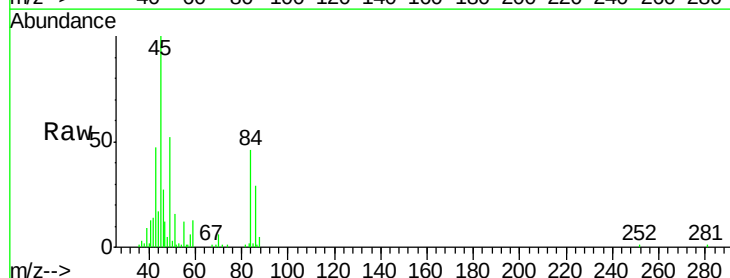
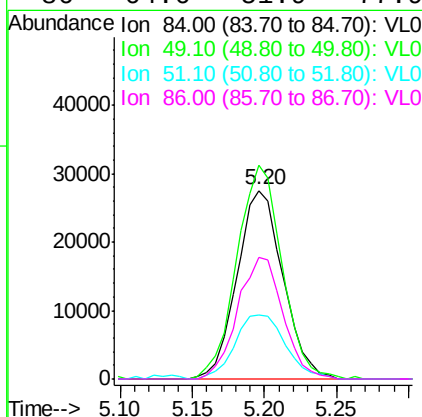
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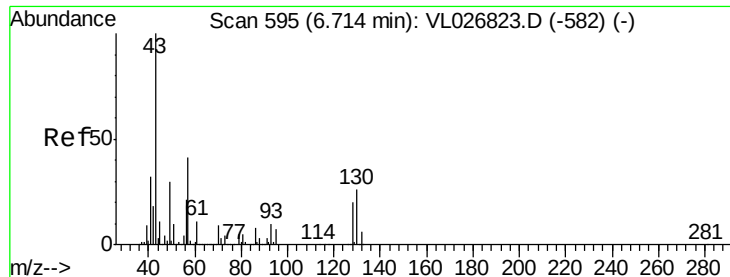
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#20
Methylene Chloride
Concen: 0.67 ppbv
RT: 5.20 min Scan# 346
Delta R.T. 0.01 min
Lab File: VL026839.D
Acq: 10 Feb 2016 4:13

Tgt Ion: 84 Resp: 60687
Ion Ratio Lower Upper
84 100
49 113.4 94.9 142.3
51 34.0 29.5 44.3
86 64.6 51.9 77.9





#25

Ethyl Acetate

Concen: 2.26 ppbv

RT: 6.71 min Scan# 595

Delta R.T. -0.00 min

Lab File: VL026839.D

Acq: 10 Feb 2016 4:13

Instrument :

MSVOA_L

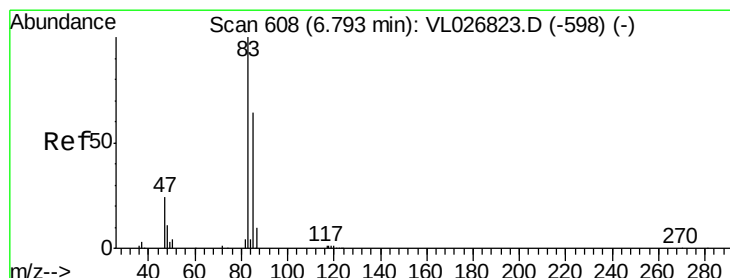
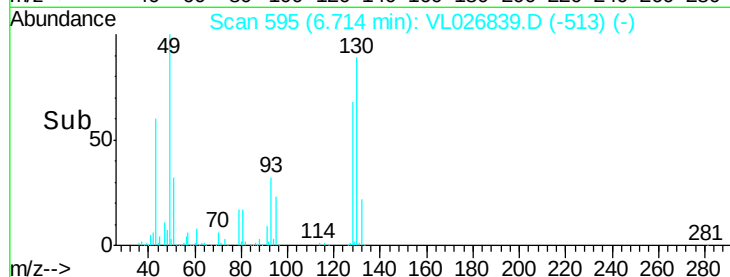
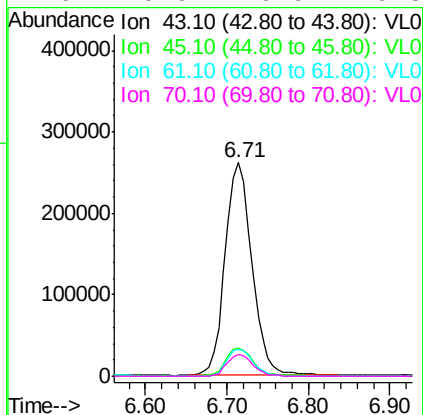
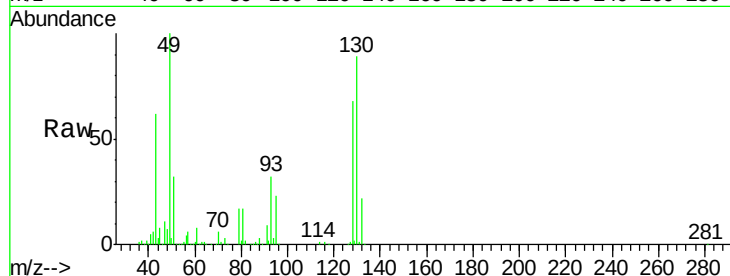
ClientSampleId :

IAS-1DUP

Tot Ion	43	Resp	596049
Ion Ratio	Lower	Upper	
43	100		
45	13.4	7.8	11.8#
61	12.5	7.9	11.9#
70	9.9	6.9	10.3

Manual Integrations
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#29

Chloroform

Concen: 0.14 ppbv

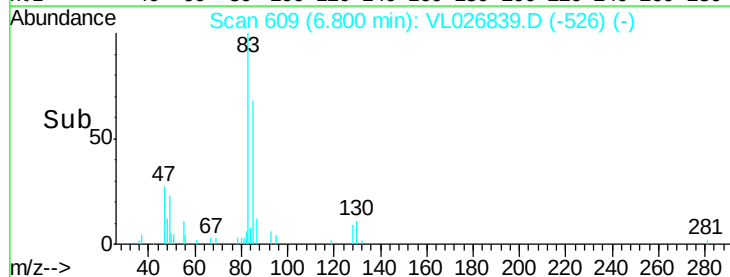
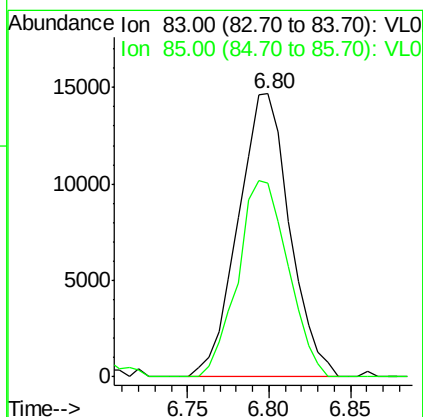
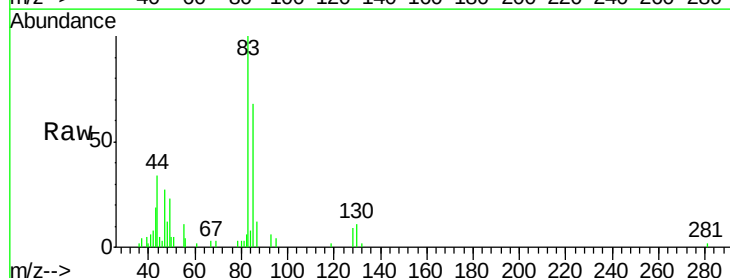
RT: 6.80 min Scan# 609

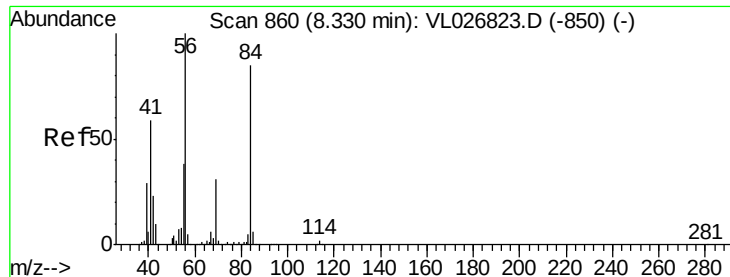
Delta R.T. 0.01 min

Lab File: VL026839.D

Acq: 10 Feb 2016 4:13

Tgt Ion	83	Resp	32267
Ion Ratio	Lower	Upper	
83	100		
85	68.4	51.5	77.3





#30

Cyclohexane

Concen: 0.27 ppbv m

RT: 8.33 min Scan# 860

Delta R.T. -0.00 min

Lab File: VL026839.D

Acq: 10 Feb 2016 4:13

Instrument :

MSVOA_L

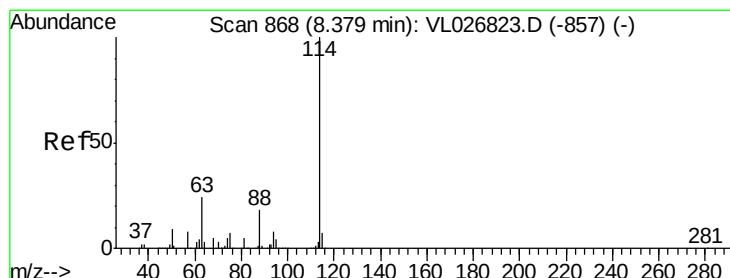
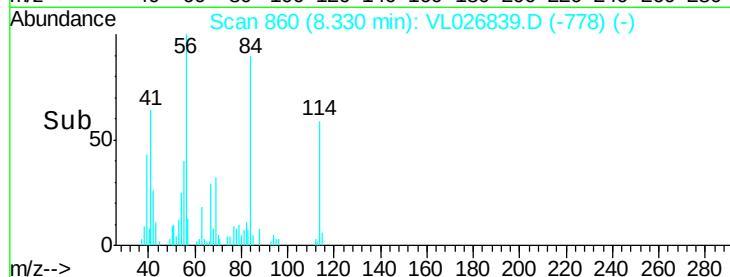
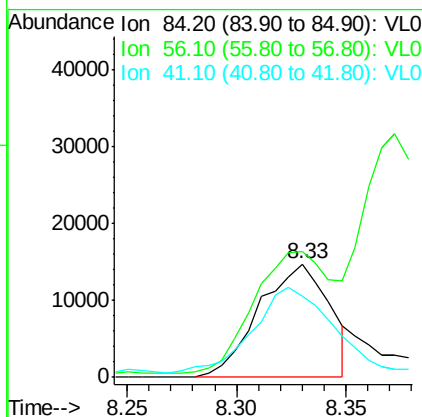
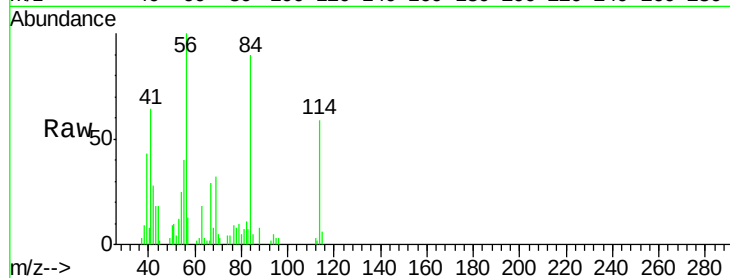
ClientSampled :

IAS-1DUP

Tot Ion:	84	Resp:	32985
Ion Ratio	Lower	Upper	
84	100		
56	0.0	99.4	149.2#
41	95.9	56.7	85.1#

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#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

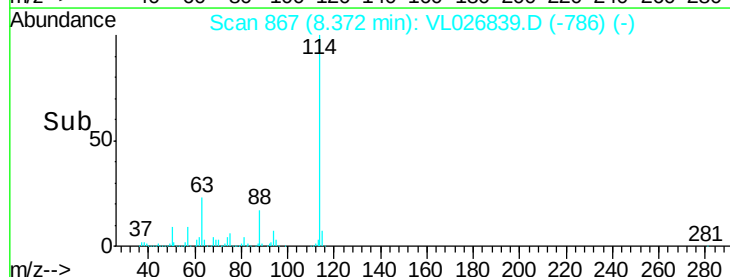
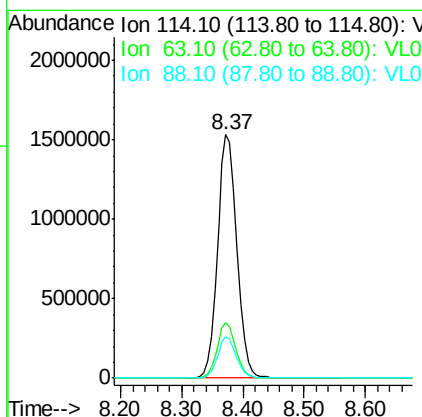
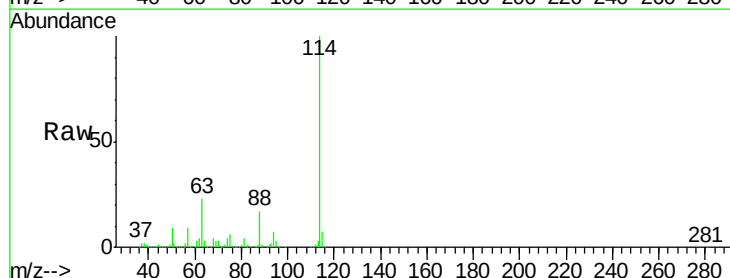
RT: 8.37 min Scan# 867

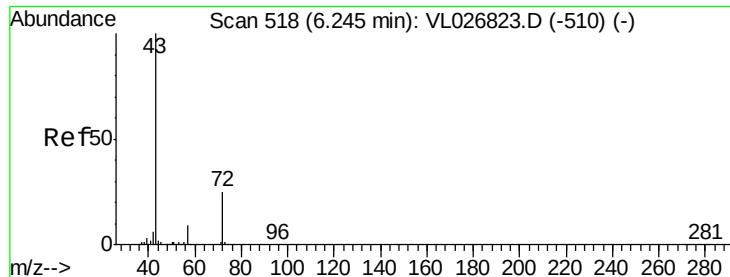
Delta R.T. -0.01 min

Lab File: VL026839.D

Acq: 10 Feb 2016 4:13

Tgt Ion:	114	Resp:	3388912
Ion Ratio	Lower	Upper	
114	100		
63	22.3	19.7	29.5
88	16.4	13.8	20.6





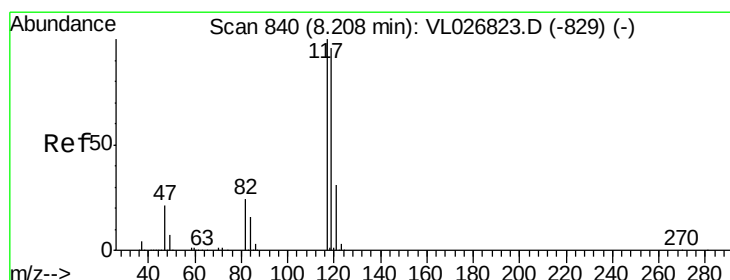
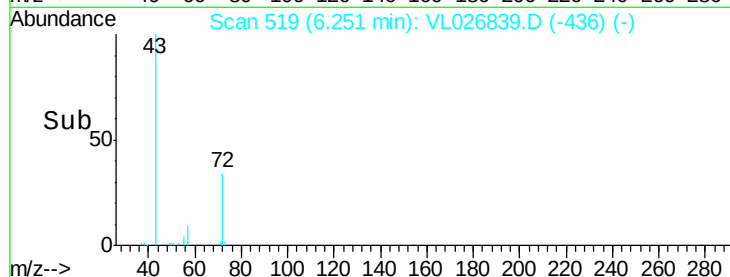
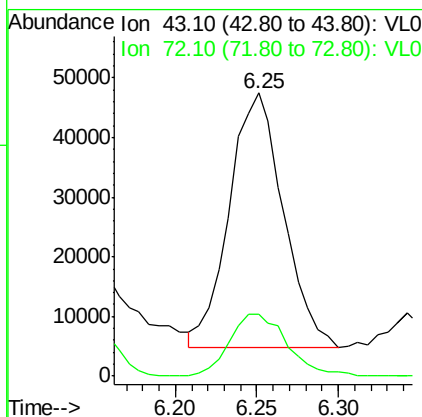
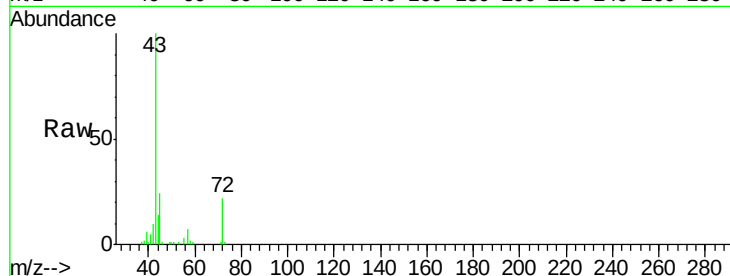
#34
2-Butanone
Concen: 0.59 ppbv
RT: 6.25 min Scan# 519
Delta R.T. 0.01 min
Lab File: VL026839.D
Acq: 10 Feb 2016 4:13

Instrument :
MSVOA_L
ClientSampleId :
IAS-1DUP

Tot Ion: 43 Resp: 98730
Ion Ratio Lower Upper
43 100
72 25.7 19.8 29.8

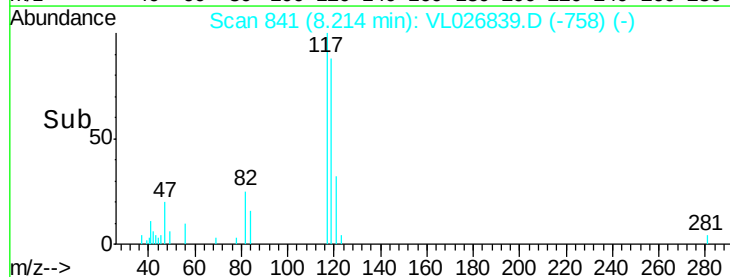
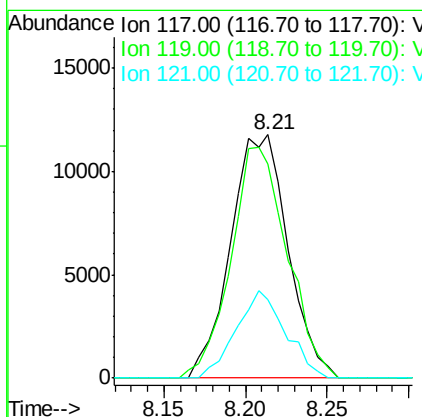
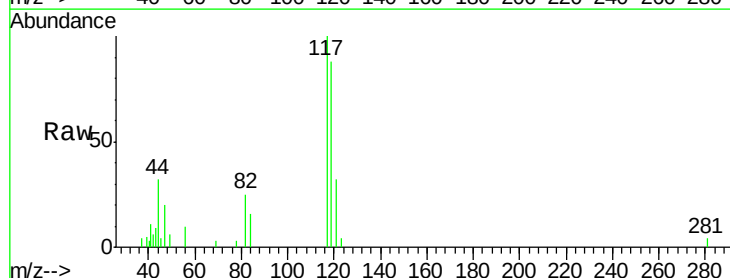
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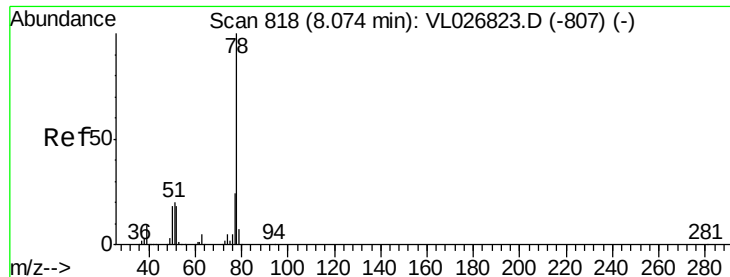
MMDadoda
2/11/2016 1:23:46 PM



#35
Carbon Tetrachloride
Concen: 0.12 ppbv
RT: 8.21 min Scan# 841
Delta R.T. 0.01 min
Lab File: VL026839.D
Acq: 10 Feb 2016 4:13

Tgt Ion: 117 Resp: 28775
Ion Ratio Lower Upper
117 100
119 87.7 76.6 115.0
121 32.0 25.0 37.4





#36

Benzene

Concen: 0.72 ppbv

RT: 8.07 min Scan# 817

Delta R.T. -0.01 min

Lab File: VL026839.D

Acq: 10 Feb 2016 4:13

Instrument :

MSVOA_L

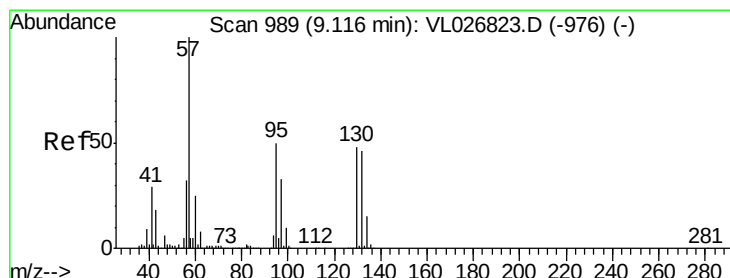
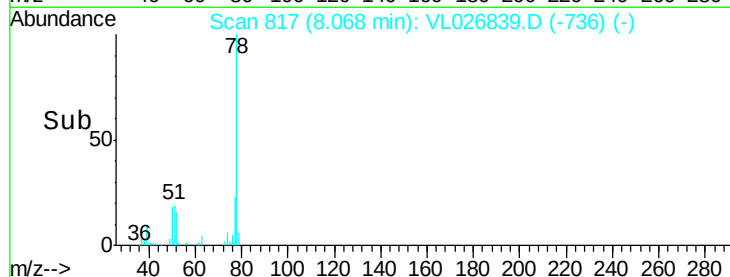
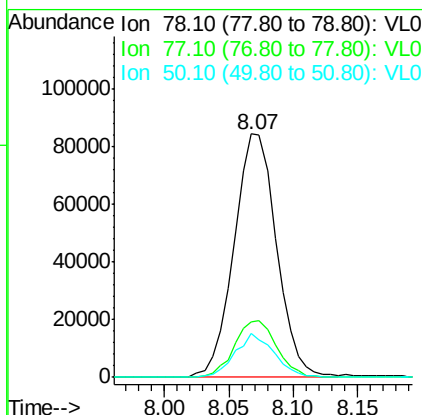
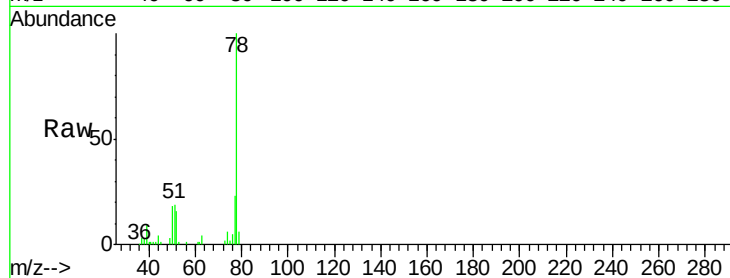
ClientSampleId :

IAS-1DUP

Tot Ion:	78	Resp:	193418
Ion	Ratio	Lower	Upper
78	100		
77	23.0	19.0	28.6
50	17.8	14.2	21.4

Manual Integrations
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#38

Trichloroethene

Concen: 0.06 ppbv

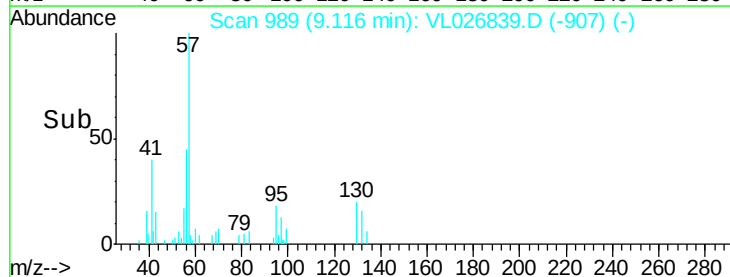
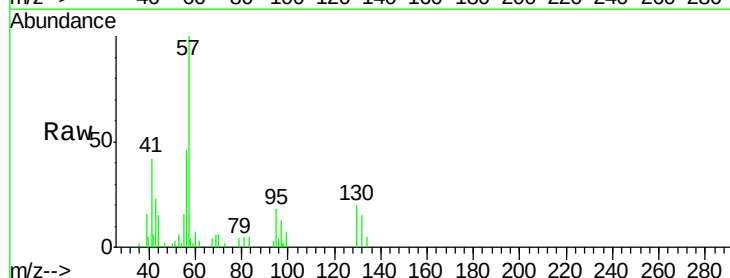
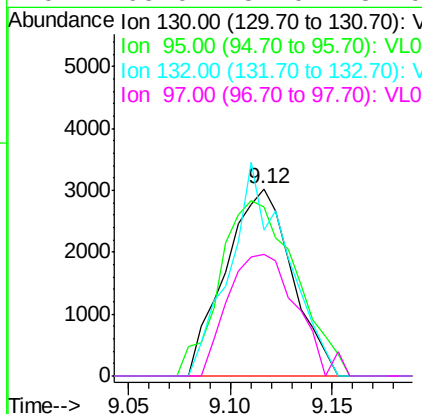
RT: 9.12 min Scan# 989

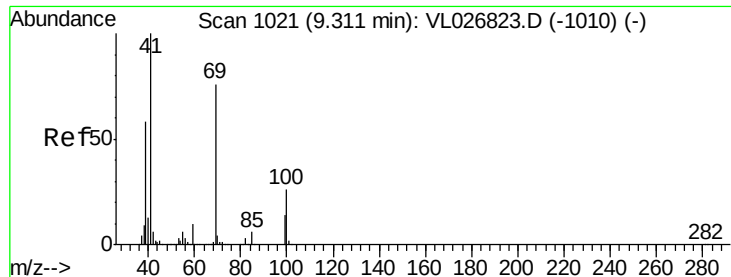
Delta R.T. -0.00 min

Lab File: VL026839.D

Acq: 10 Feb 2016 4:13

Tgt Ion:	130	Resp:	6879
Ion	Ratio	Lower	Upper
130	100		
95	78.4	83.0	124.6#
132	77.7	76.0	114.0
97	65.0	54.0	81.0





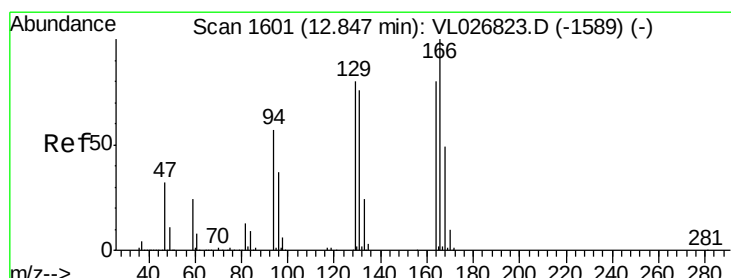
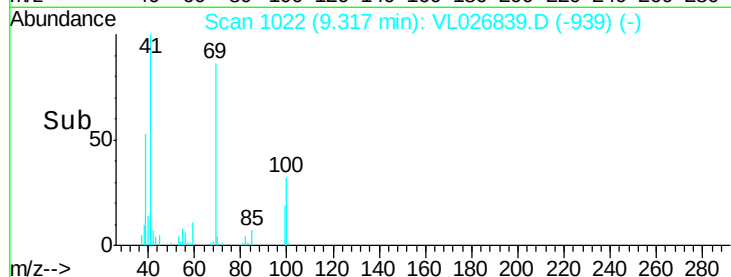
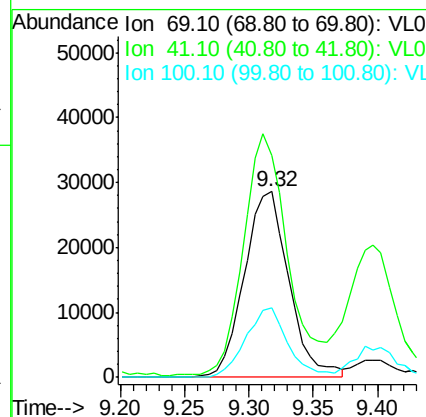
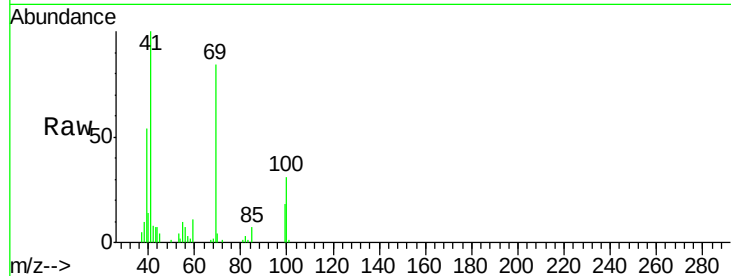
#43
Methvl Methacrylate
Concen: 0.73 ppbv
RT: 9.32 min Scan# 1022
Delta R.T. 0.01 min
Lab File: VL026839.D
Acq: 10 Feb 2016 4:13

Instrument :
MSVOA_L
ClientSampleId :
IAS-1DUP

Tot Ion	Ratio	Lower	Upper
69	100		
41	124.8	106.5	159.7
100	34.8	27.2	40.8

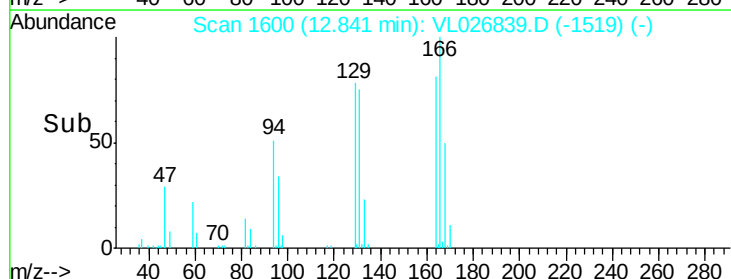
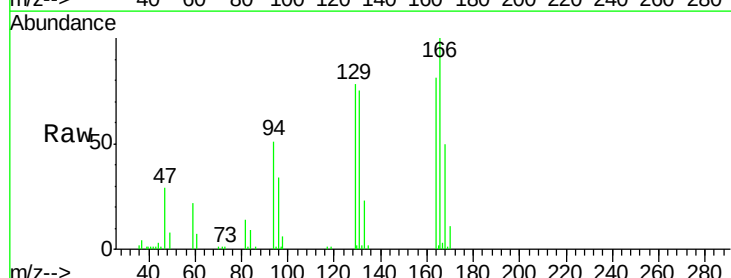
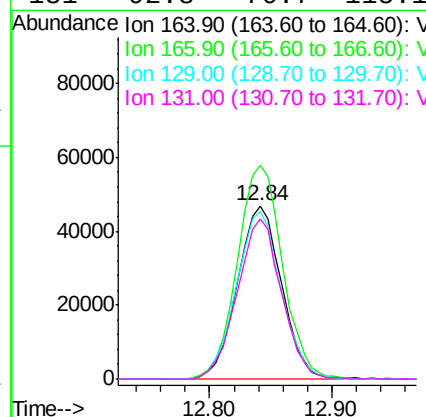
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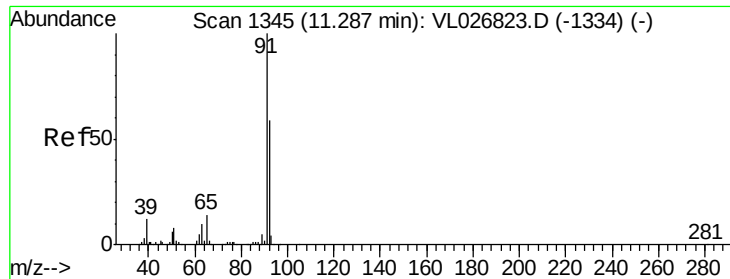
MMDadoda
2/11/2016 1:23:46 PM



#52
Tetrachloroethene
Concen: 1.11 ppbv
RT: 12.84 min Scan# 1600
Delta R.T. -0.01 min
Lab File: VL026839.D
Acq: 10 Feb 2016 4:13

Tgt Ion	Ratio	Lower	Upper
164	100		
166	122.7	100.3	150.5
129	96.8	80.0	120.0
131	92.8	76.7	115.1





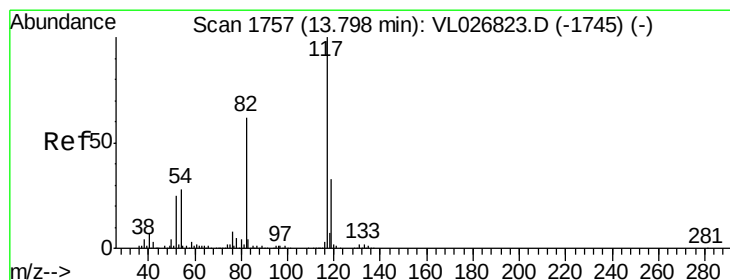
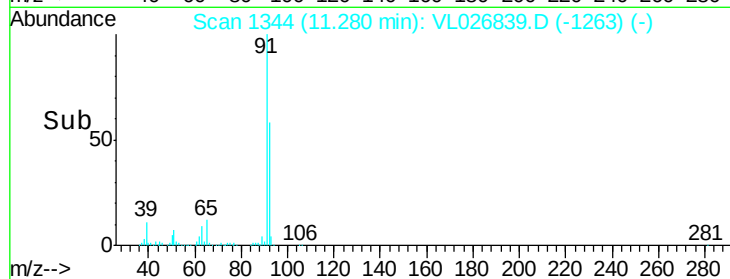
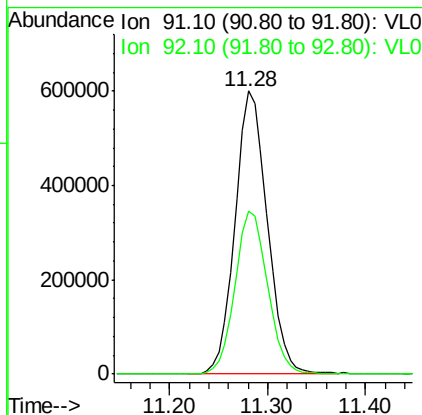
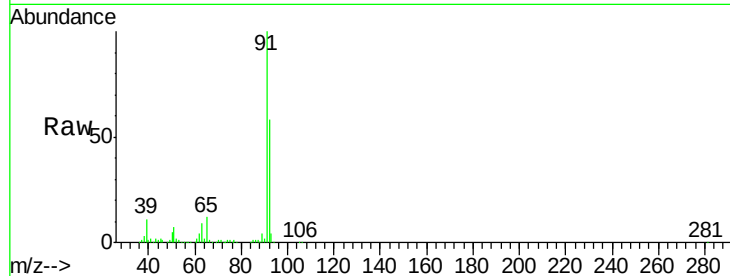
#53
Toluene
Concen: 4.55 ppbv
RT: 11.28 min Scan# 1344
Delta R.T. -0.01 min
Lab File: VL026839.D
Acq: 10 Feb 2016 4:13

Instrument :
MSVOA_L
ClientSampleId :
IAS-1DUP

Tot Ion: 91 Resp: 1375438
Ion Ratio Lower Upper
91 100
92 58.7 47.3 70.9

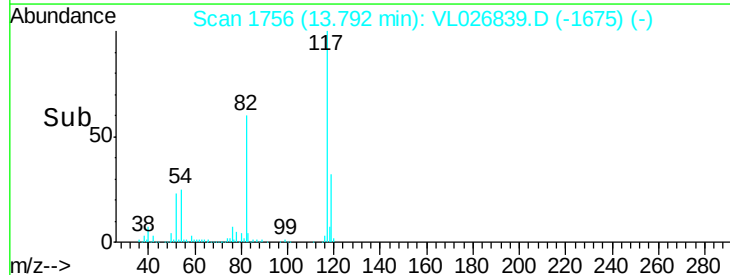
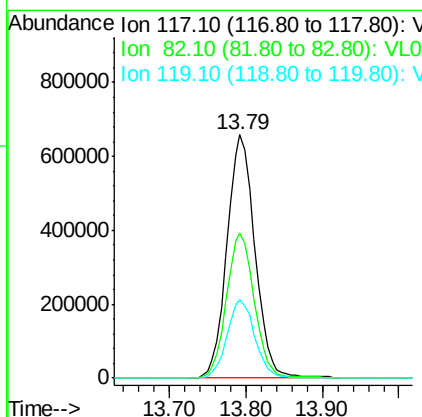
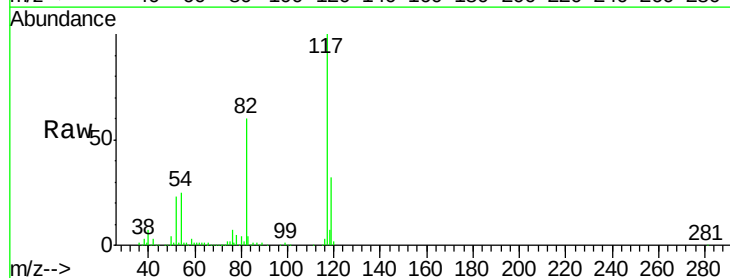
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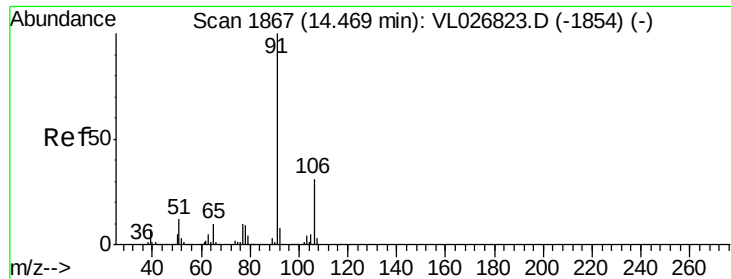
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2/11/2016 1:23:46 PM



#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.79 min Scan# 1756
Delta R.T. -0.01 min
Lab File: VL026839.D
Acq: 10 Feb 2016 4:13

Tgt Ion: 117 Resp: 1663799
Ion Ratio Lower Upper
117 100
82 60.4 51.9 77.9
119 32.4 48.5 72.7#





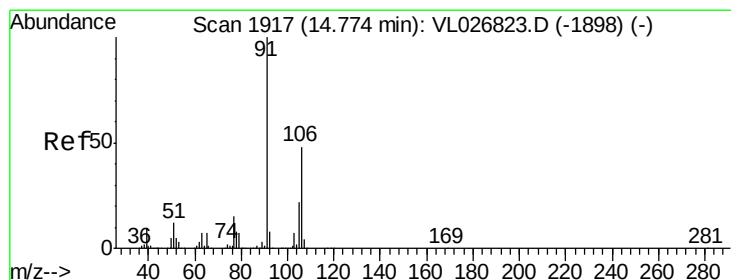
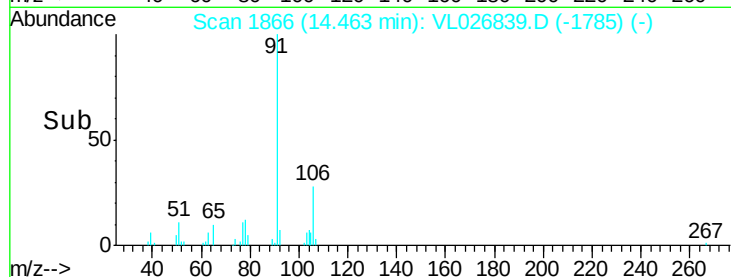
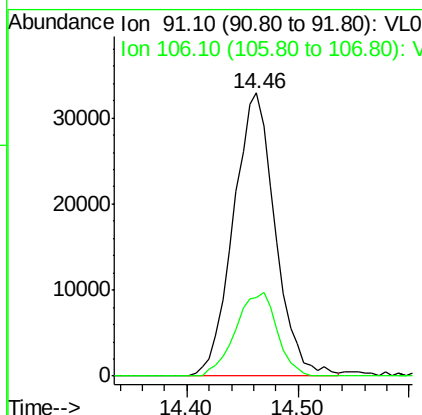
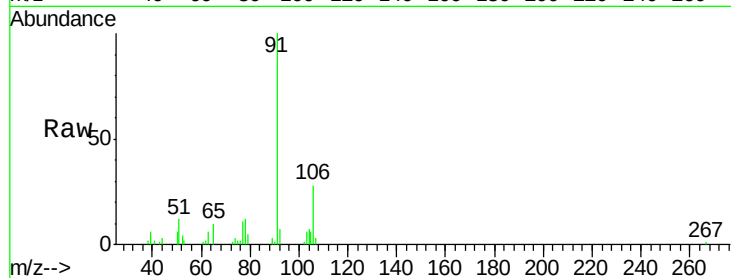
#58
Ethyl Benzene
Concen: 0.43 ppbv
RT: 14.46 min Scan# 1866
Delta R.T. -0.01 min
Lab File: VL026839.D
Acq: 10 Feb 2016 4:13

Instrument :
MSVOA_L
ClientSampleId :
IAS-1DUP

Tot Ion: 91 Resp: 85728
Ion Ratio Lower Upper
91 100
106 27.8 24.9 37.3

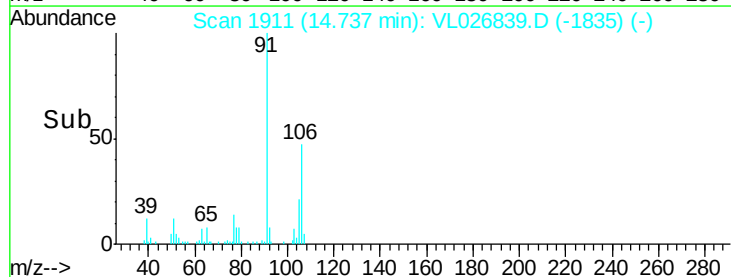
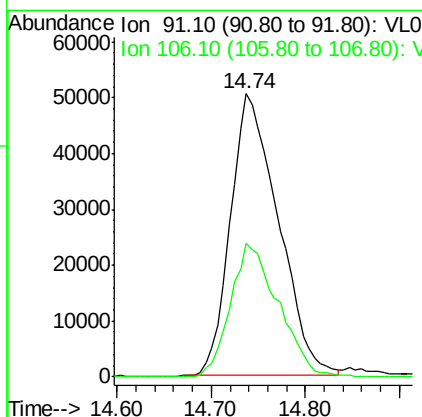
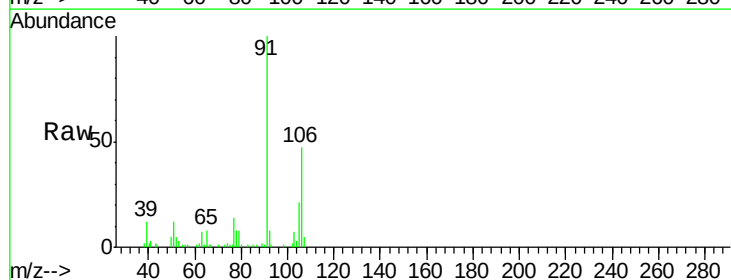
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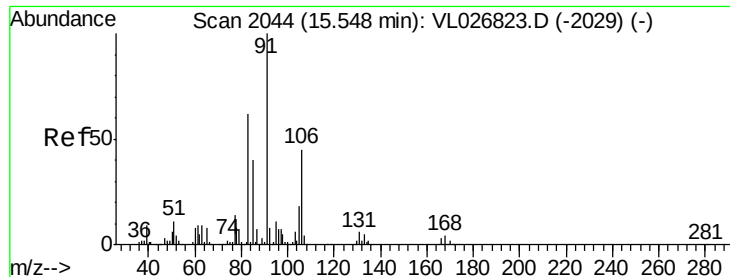
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#59
m/p-Xylene
Concen: 1.04 ppbv
RT: 14.74 min Scan# 1911
Delta R.T. -0.04 min
Lab File: VL026839.D
Acq: 10 Feb 2016 4:13

Tgt Ion: 91 Resp: 178152
Ion Ratio Lower Upper
91 100
106 47.7 38.2 57.2





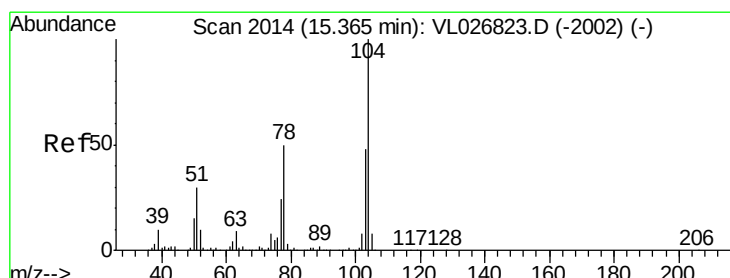
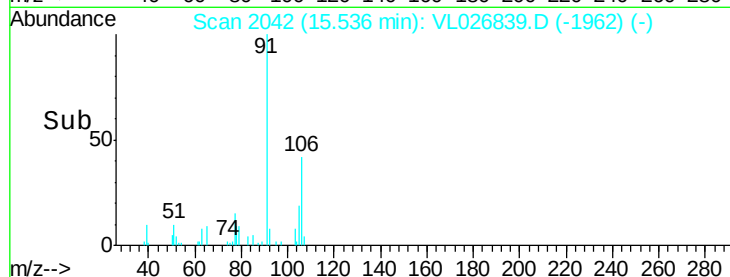
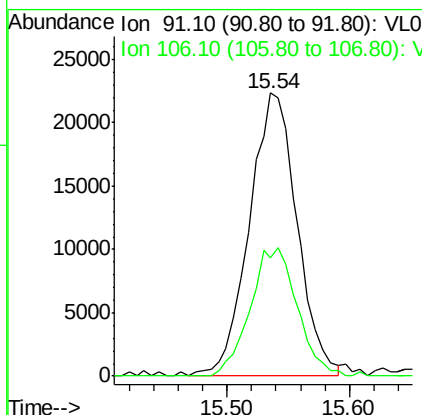
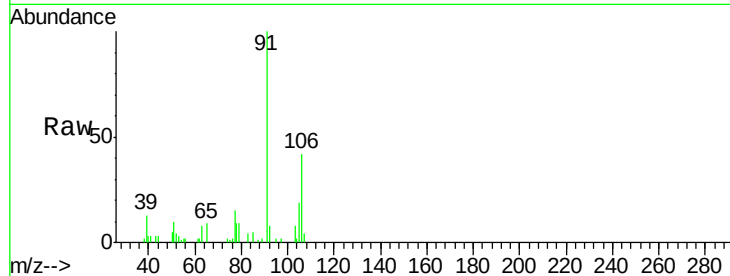
#60
o-Xylene
Concen: 0.32 ppbv
RT: 15.54 min Scan# 2042
Delta R.T. -0.01 min
Lab File: VL026839.D
Acq: 10 Feb 2016 4:13

Instrument :
MSVOA_L
ClientSampled :
IAS-1DUP

Tot Ion: 91 Resp: 60676
Ion Ratio Lower Upper
91 100
106 44.7 22.3 66.8

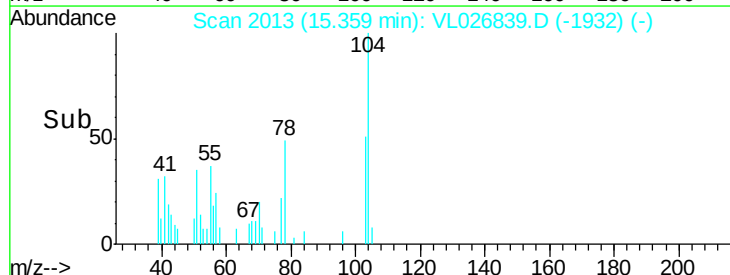
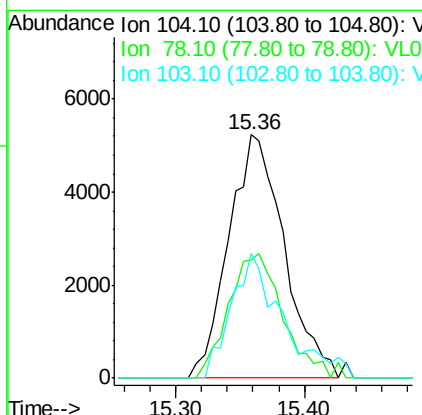
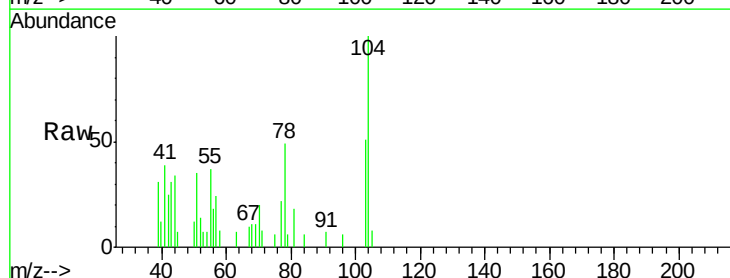
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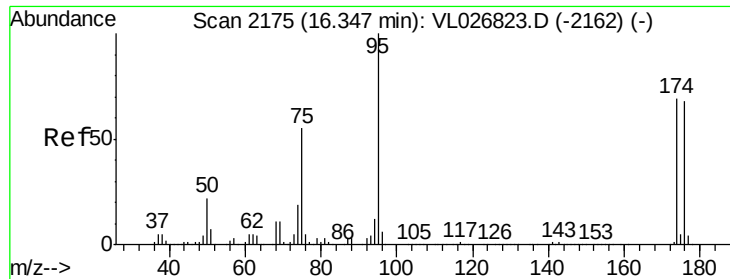
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2/11/2016 1:23:46 PM



#61
Styrene
Concen: 0.25 ppbv
RT: 15.36 min Scan# 2013
Delta R.T. -0.01 min
Lab File: VL026839.D
Acq: 10 Feb 2016 4:13

Tgt Ion:104 Resp: 15662
Ion Ratio Lower Upper
104 100
78 50.3 39.8 59.6
103 47.6 38.2 57.4





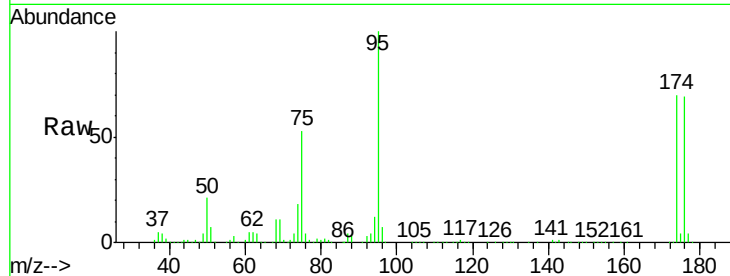
#68
 1-Bromo-4-Fluorobenzene
 Concen: 12.29 ppbv
 RT: 16.33 min Scan# 2173
 Delta R.T. -0.01 min
 Lab File: VL026839.D
 Acq: 10 Feb 2016 4:13

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-1DUP

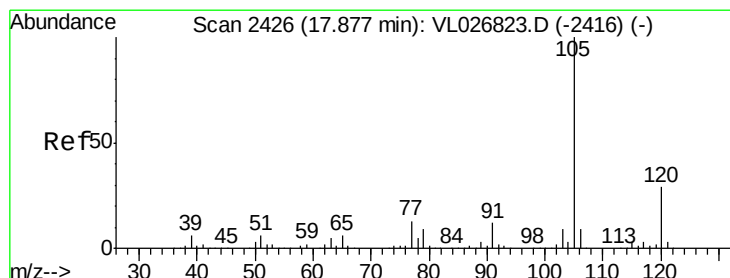
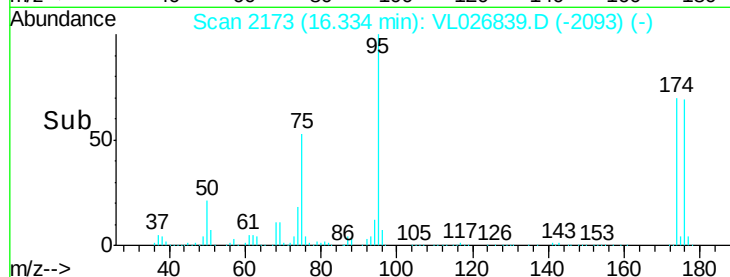
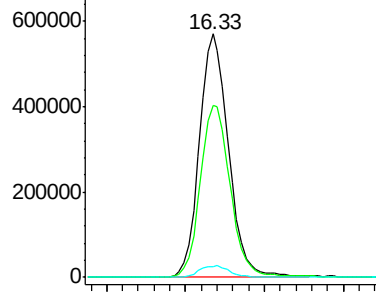
Tot Ion: 95 Resp: 1468466
 Ion Ratio Lower Upper
 95 100
 174 73.3 55.6 83.4
 175 5.0 3.9 5.9

Manual Integrations
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 2/11/2016 1:23:46 PM

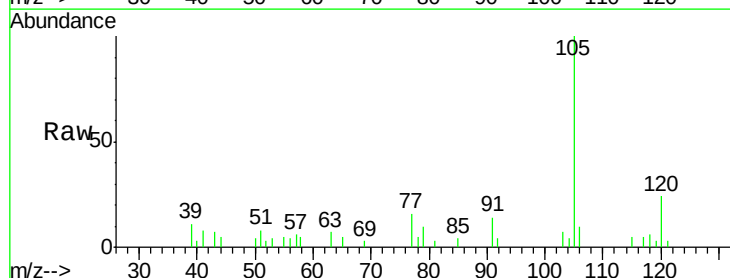


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

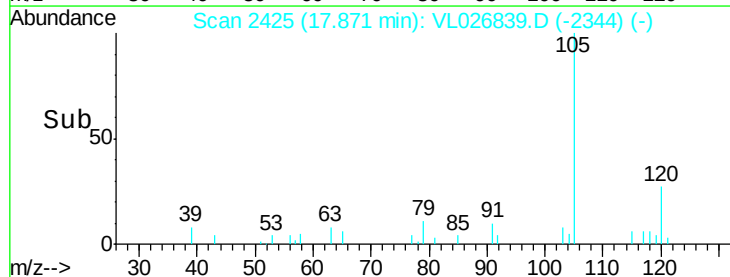
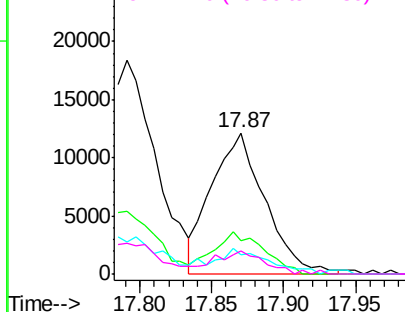


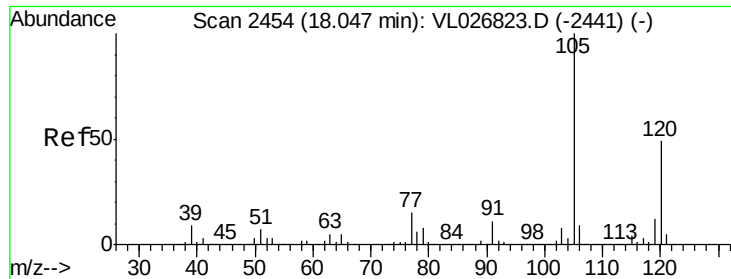
#72
 4-Ethyltoluene
 Concen: 0.18 ppbv
 RT: 17.87 min Scan# 2425
 Delta R.T. -0.01 min
 Lab File: VL026839.D
 Acq: 10 Feb 2016 4:13

Tgt Ion: 105 Resp: 31494
 Ion Ratio Lower Upper
 105 100
 120 29.1 23.8 35.6
 91 16.8 10.2 15.4#
 77 16.4 10.8 16.2#



Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0





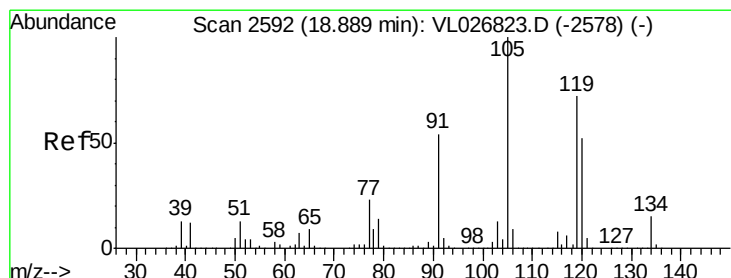
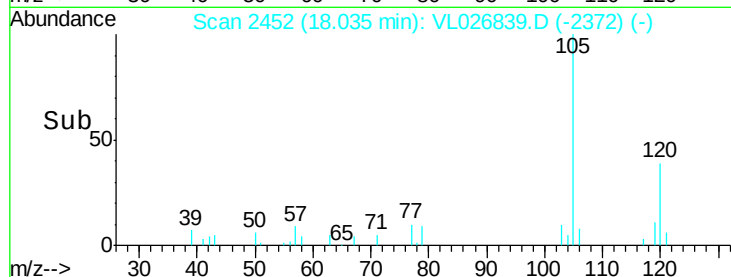
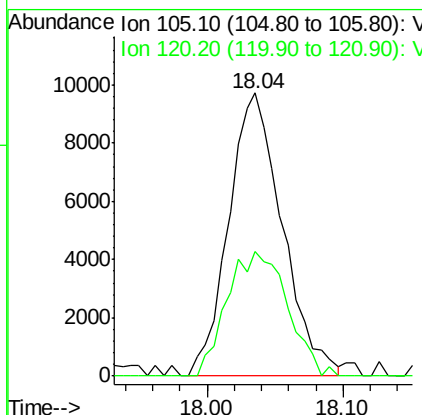
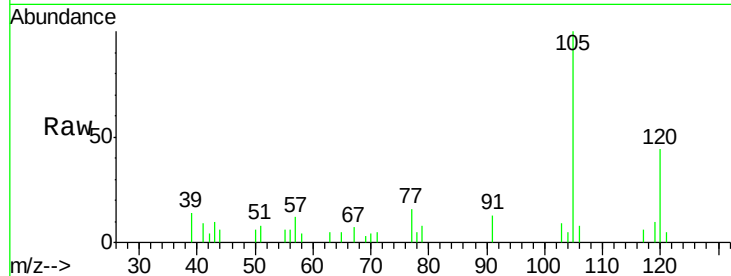
#73
 1,3,5-Trimethylbenzene
 Concen: 0.16 ppbv
 RT: 18.04 min Scan# 2452
 Delta R.T. -0.01 min
 Lab File: VL026839.D
 Acq: 10 Feb 2016 4:13

Instrument :
 MSVOA_L
 ClientSampled :
 IAS-1DUP

Tot Ion:105 Resp: 26747
 Ion Ratio Lower Upper
 105 100
 120 44.1 39.4 59.0

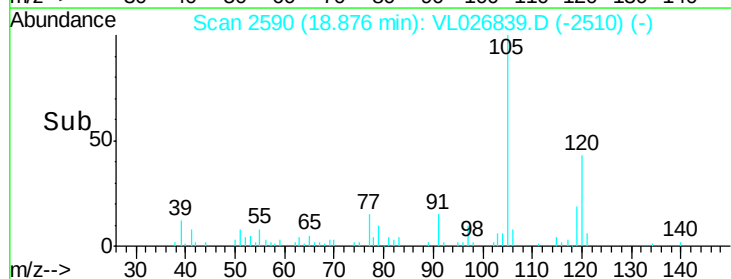
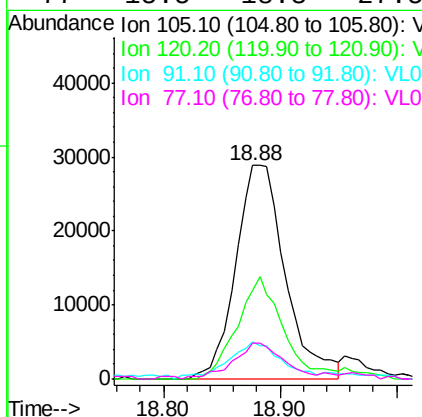
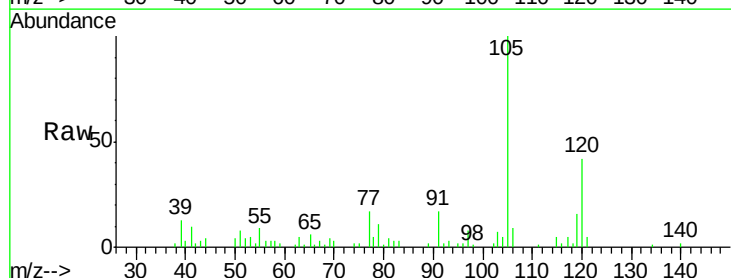
Manual Integrations
 APPROVED

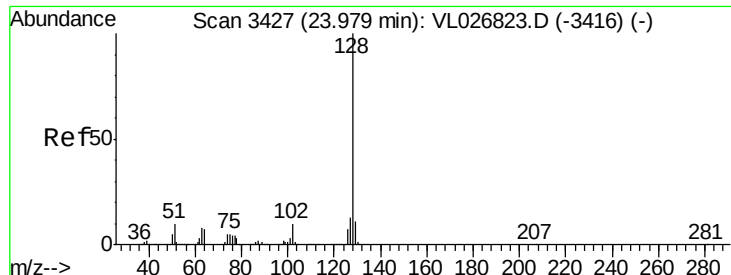
MMDadoda
 2/11/2016 1:23:46 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.45 ppbv
 RT: 18.88 min Scan# 2590
 Delta R.T. -0.01 min
 Lab File: VL026839.D
 Acq: 10 Feb 2016 4:13

Tgt Ion:105 Resp: 85677
 Ion Ratio Lower Upper
 105 100
 120 41.5 41.3 61.9
 91 15.5 43.3 64.9#
 77 15.5 18.3 27.5#





#79

Naphthalene

Concen: 0.15 ppbv

RT: 23.99 min Scan# 3428

Delta R.T. 0.01 min

Lab File: VL026839.D

Acq: 10 Feb 2016 4:13

Instrument :

MSVOA_L

ClientSampleId :

IAS-1DUP

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.8	10.0	15.0#
129	11.8	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
2/11/2016 1:23:46 PM

