

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL011216\
 Data File : VL026680.D
 Acq On : 12 Jan 2016 18:36
 Operator : SY/AP
 Sample : H1075-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-5

Manual Integrations
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Quant Time: Jan 13 13:03:26 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 13 2016
 QLast Update : Mon Jan 11 17:14:02 2016
 Response via : Initial Calibration

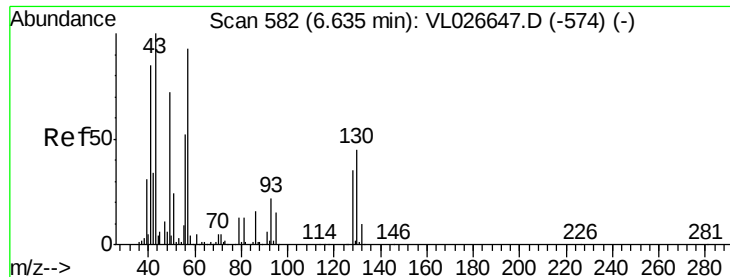
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.68	49	760818	10.00	ppbv	0.05
33) 1,4-Difluorobenzene	8.36	114	2390166	10.00	ppbv	0.05
55) Chlorobenzene-d5	13.78	117	3119951	10.00	ppbv	0.05

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.33	95	2603303	10.47	ppbv	0.06
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.67	85	102554	0.51	ppbv	90
3) Chlorodifluoromethane	3.59	51	166089m	1.64	ppbv	
9) Propene	3.62	41	32555	0.89	ppbv	86
11) Trichlorofluoromethane	4.73	101	46965	0.22	ppbv	91
12) 1,1,2-Trichlorotrifluoroet	5.34	101	9168	0.07	ppbv	92
13) Ethanol	4.35	45	61771	8.93	ppbv	100
15) Acetone	4.62	43	4823156	38.54	ppbv	96
17) tert-Butyl alcohol	5.18	59	41190	0.44	ppbv	97
19) Isopropyl Alcohol	4.79	45	276621	5.36	ppbv #	96
20) Methylene Chloride	5.18	84	33122	0.64	ppbv #	81
27) Carbon Disulfide	5.42	76	343729	2.31	ppbv #	89
29) Chloroform	6.78	83	21296	0.12	ppbv	84
32) 1,1,1-Trichloroethane	7.63	97	19172	0.09	ppbv	97
34) 2-Butanone	6.23	43	508671	3.99	ppbv	99
36) Benzene	8.06	78	56637	0.23	ppbv	95
51) 2-Hexanone	11.67	43	35025	0.21	ppbv #	87
52) Tetrachloroethene	12.83	164	12977	0.11	ppbv #	65
53) Toluene	11.27	91	1538196	4.44	ppbv	99
58) Ethyl Benzene	14.45	91	172461	0.31	ppbv	97
59) m/p-Xylene	14.72	91	486836	1.06	ppbv	99
60) o-Xylene	15.52	91	149944	0.30	ppbv	98
61) Styrene	15.36	104	31923	0.16	ppbv	98
62) Isopropylbenzene	16.58	105	588011	0.89	ppbv	100
72) 4-Ethyltoluene	17.86	105	57795	0.10	ppbv #	94
73) 1,3,5-Trimethylbenzene	18.03	105	36925	0.07	ppbv	94
74) 1,2,4-Trimethylbenzene	18.88	105	155433	0.28	ppbv #	77

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.68 min Scan# 590

Delta R.T. 0.05 min

Lab File: VL026680.D

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Instrument :

MSVOA_L

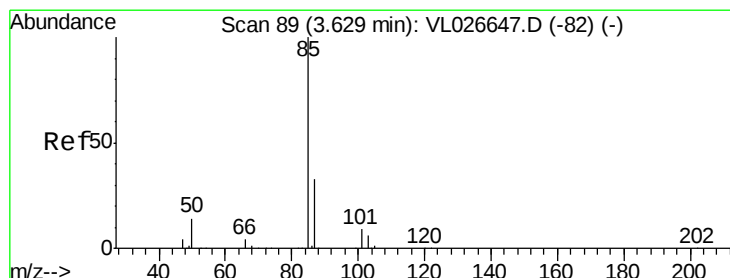
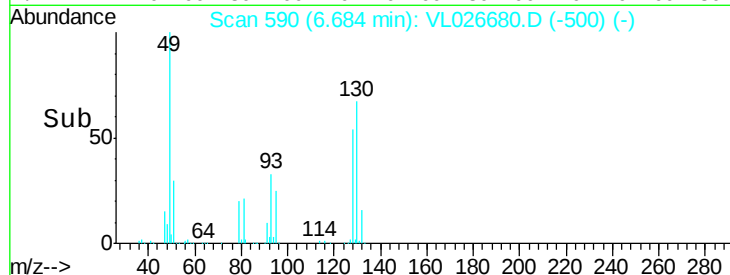
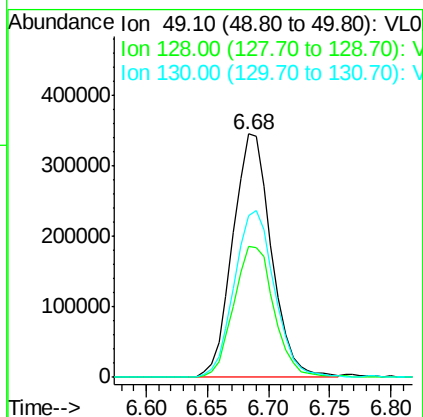
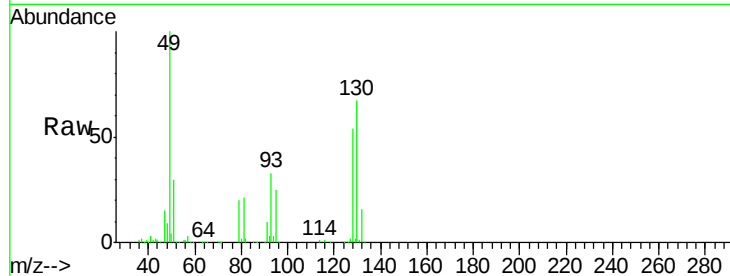
ClientSampled :

SS-5

Tot Ion	Ratio	Lower	Upper
49	100		
128	56.7	25.9	77.7
130	72.2	33.6	100.8

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#2

Dichlorodifluoromethane

Concen: 0.51 ppbv

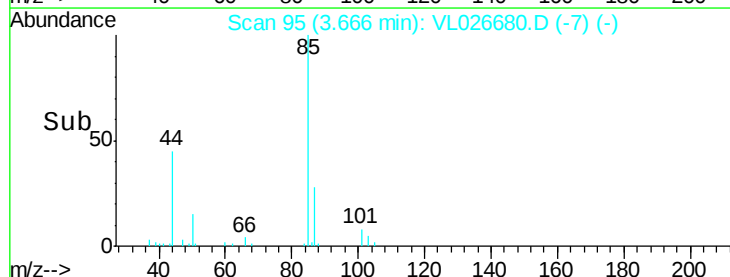
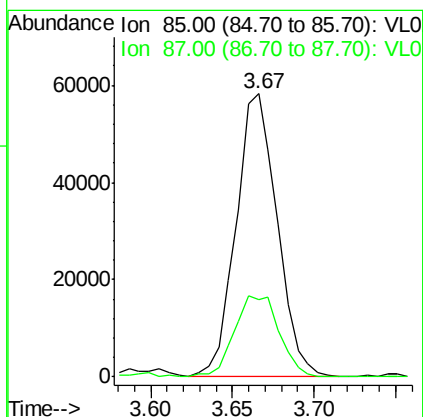
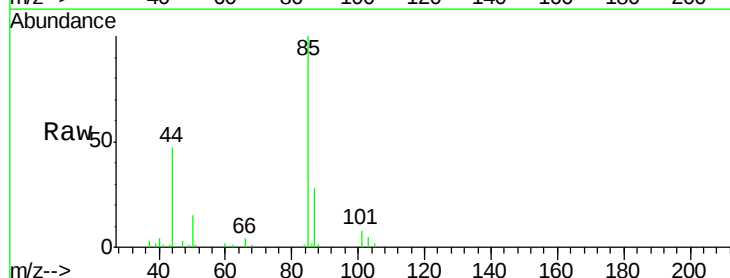
RT: 3.67 min Scan# 95

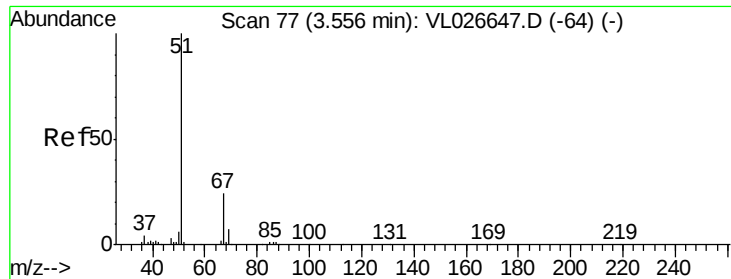
Delta R.T. 0.04 min

Lab File: VL026680.D

Acq: 12 Jan 2016 18:36

Tgt Ion	Ratio	Lower	Upper
85	100		
87	27.5	26.4	39.6





#3

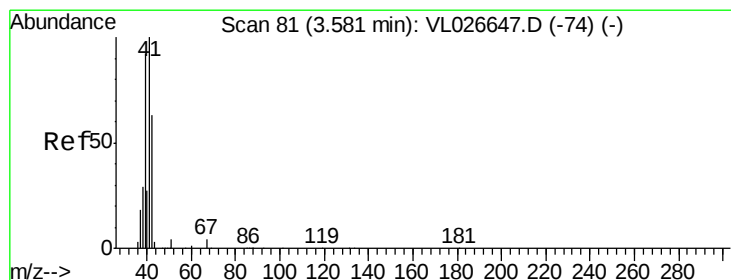
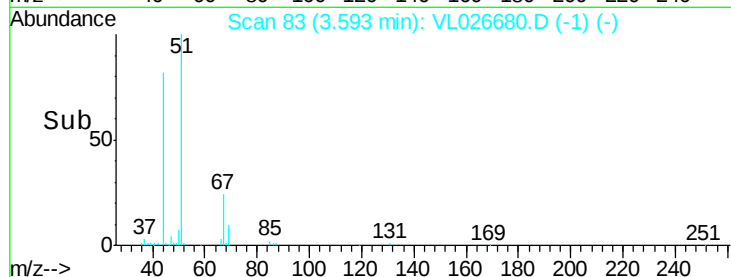
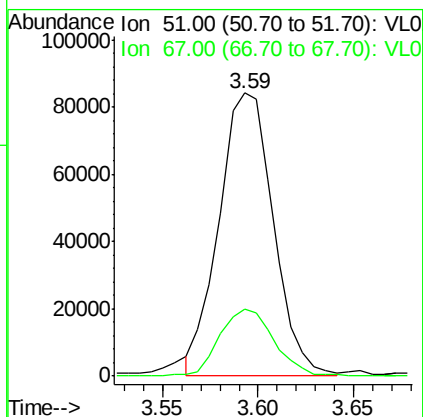
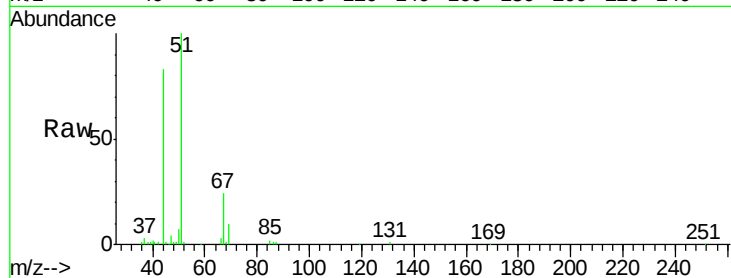
Chlorodifluoromethane
 Concen: 1.64 ppbv m
 RT: 3.59 min Scan# 83
 Delta R.T. 0.04 min
 Lab File: VL026680.D
 Acq: 12 Jan 2016 18:36

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-5

Tot Ion	Ion	Ratio	Lower	Upper
51	51	100		
67	67	23.7	18.6	28.0

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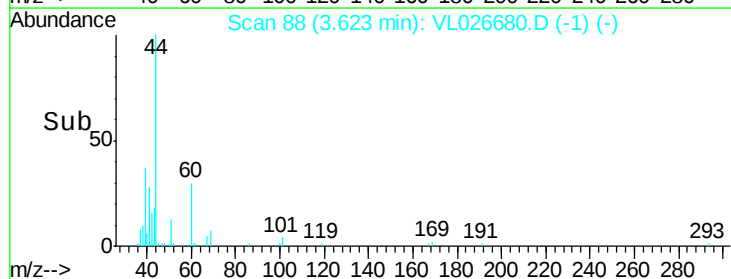
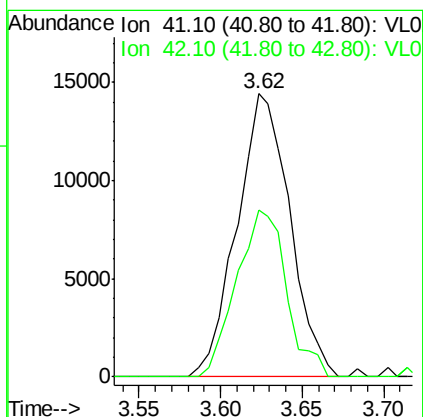
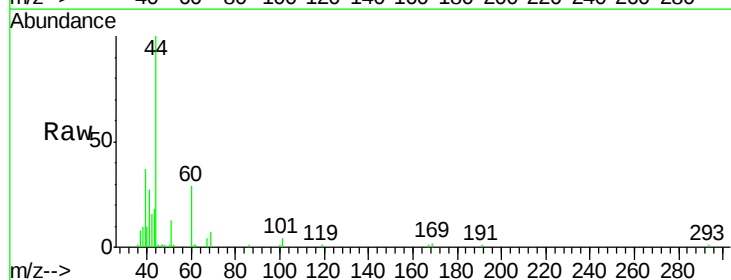
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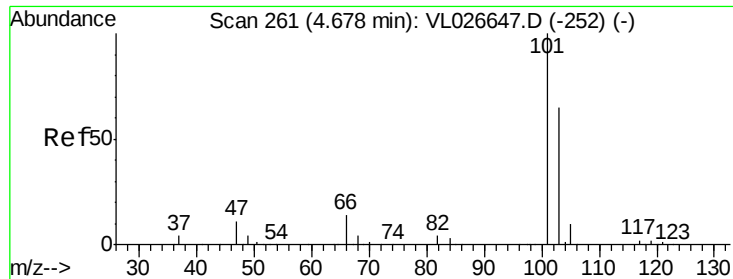


#9

Propene
 Concen: 0.89 ppbv
 RT: 3.62 min Scan# 88
 Delta R.T. 0.04 min
 Lab File: VL026680.D
 Acq: 12 Jan 2016 18:36

Tgt Ion	Ion	Ratio	Lower	Upper
41	41	100		
42	42	55.6	53.6	80.4





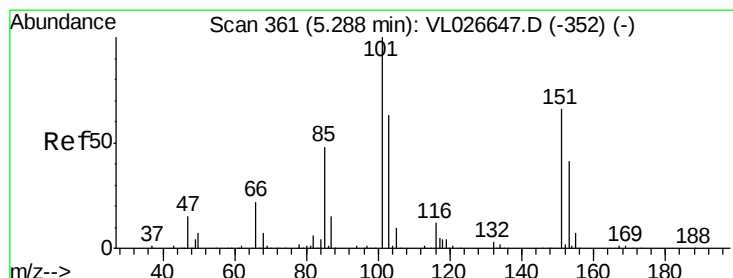
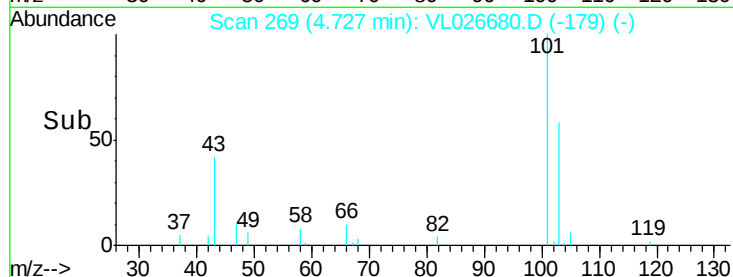
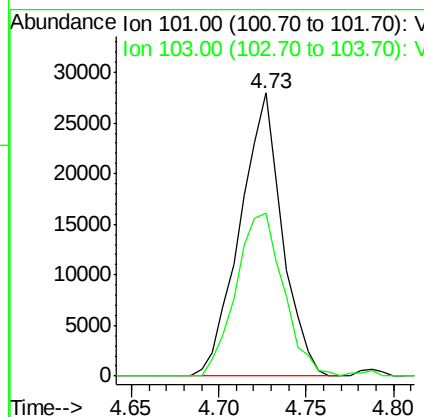
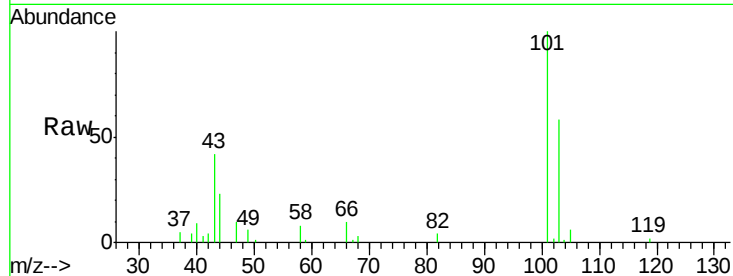
#11
 Trichlorofluoromethane
 Concen: 0.22 ppbv
 RT: 4.73 min Scan# 269
 Delta R.T. 0.05 min
 Lab File: VL026680.D
 Acq: 12 Jan 2016 18:36

Instrument :
 MSVOA_L
 ClientSampled :
 SS-5

Tot Ion:101 Resp: 46965
 Ion Ratio Lower Upper
 101 100
 103 57.7 51.7 77.5

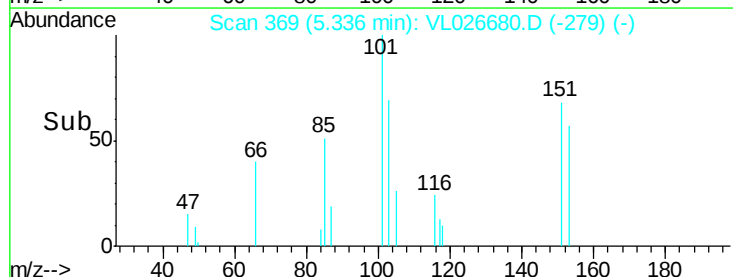
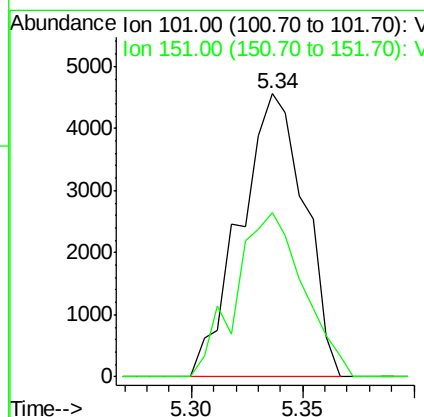
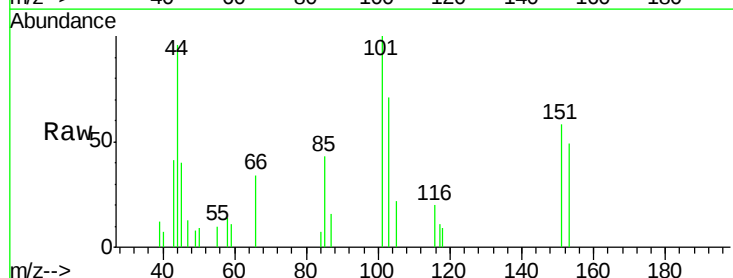
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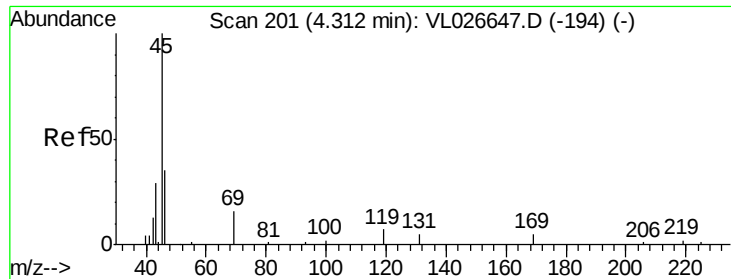
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.07 ppbv
 RT: 5.34 min Scan# 369
 Delta R.T. 0.05 min
 Lab File: VL026680.D
 Acq: 12 Jan 2016 18:36

Tgt Ion:101 Resp: 9168
 Ion Ratio Lower Upper
 101 100
 151 61.1 54.2 81.4





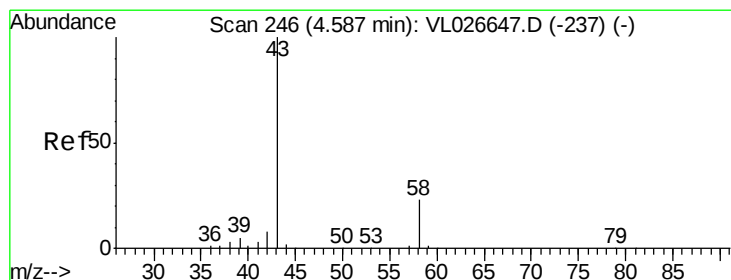
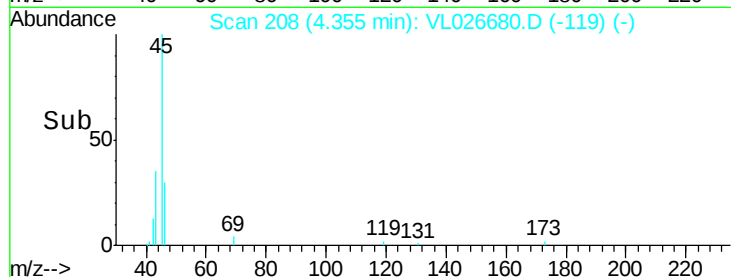
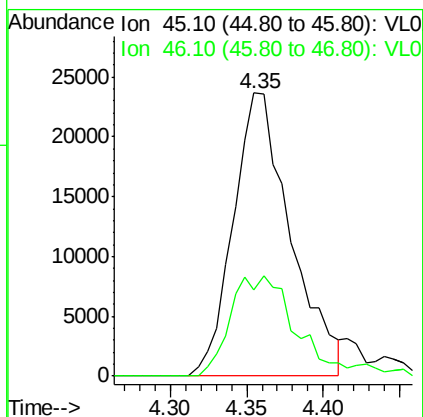
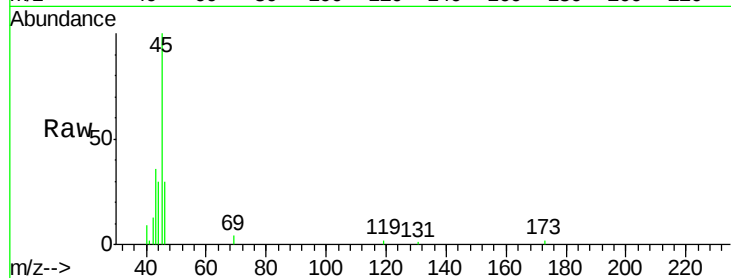
#13
Ethanol
Concen: 8.93 ppbv
RT: 4.35 min Scan# 208
Delta R.T. 0.04 min
Lab File: VL026680.D
Acq: 12 Jan 2016 18:36

Instrument :
MSVOA_L
ClientSampled :
SS-5

Tot Ion: 45 Resp: 61771
Ion Ratio Lower Upper
45 100
46 41.6 16.7 66.7

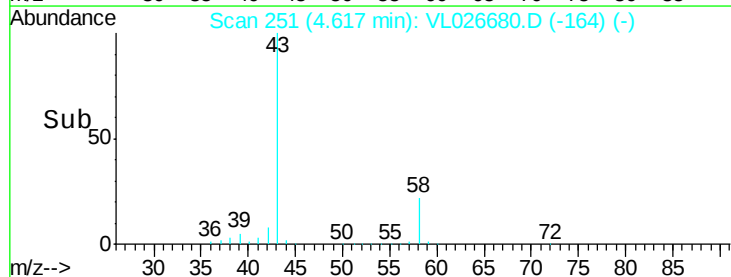
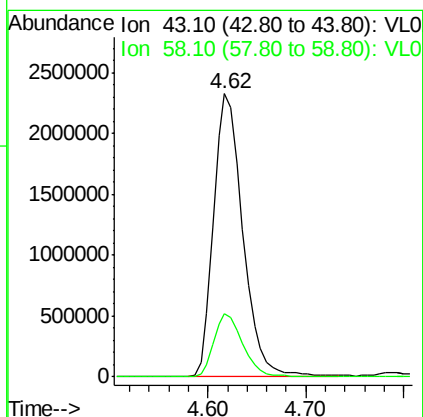
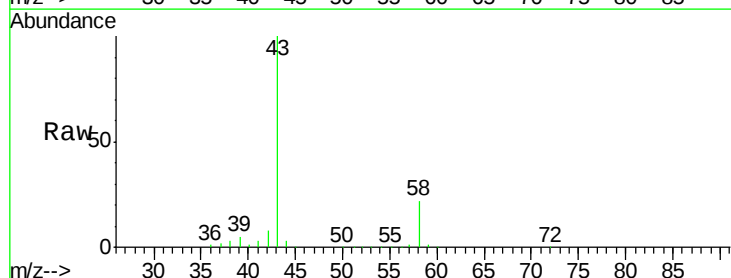
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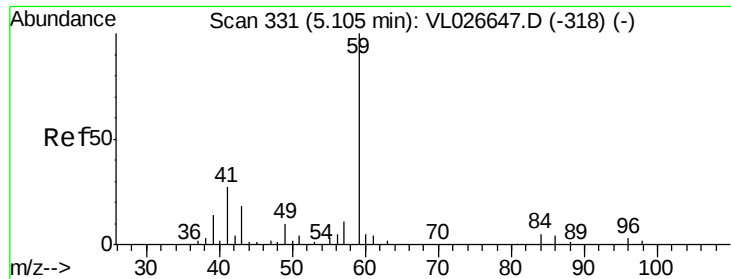
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#15
Acetone
Concen: 38.54 ppbv
RT: 4.62 min Scan# 251
Delta R.T. 0.03 min
Lab File: VL026680.D
Acq: 12 Jan 2016 18:36

Tgt Ion: 43 Resp: 4823156
Ion Ratio Lower Upper
43 100
58 22.2 19.2 28.8





#17

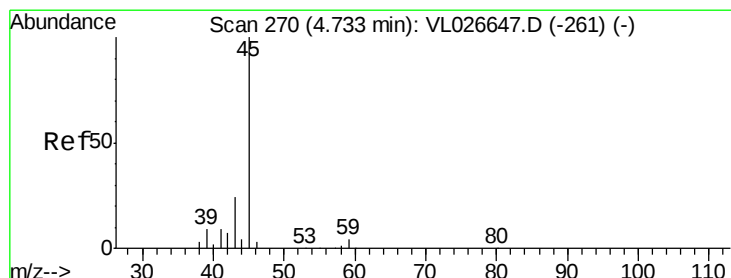
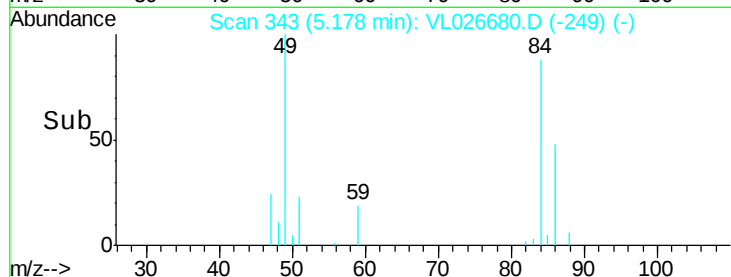
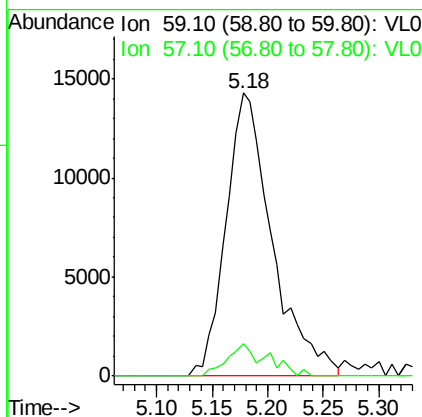
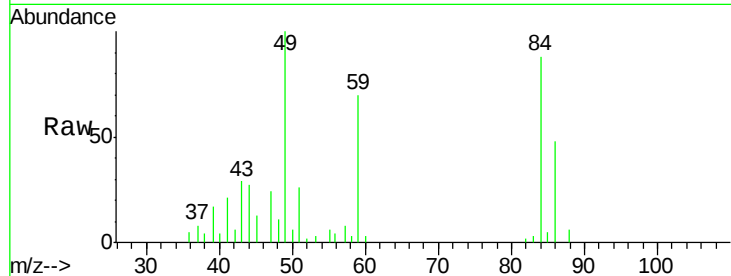
tert-Butyl alcohol
Concen: 0.44 ppbv
RT: 5.18 min Scan# 343
Delta R.T. 0.07 min
Lab File: VL026680.D
Acq: 12 Jan 2016 18:36

Instrument :
MSVOA_L
ClientSampled :
SS-5

Tot Ion	59	Ratio	Lower	Upper
59	100			
57	10.1		9.0	13.6

Manual Integrations
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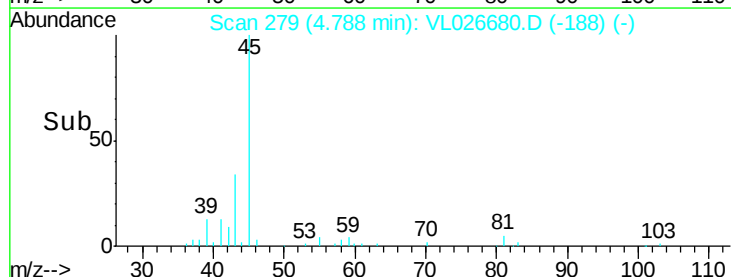
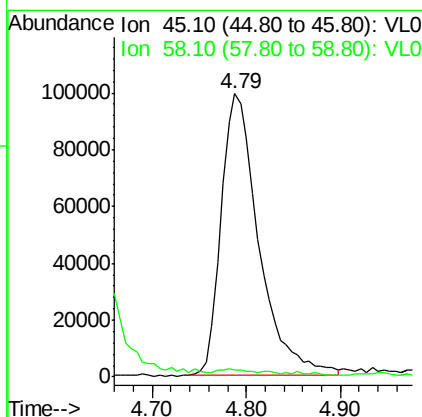
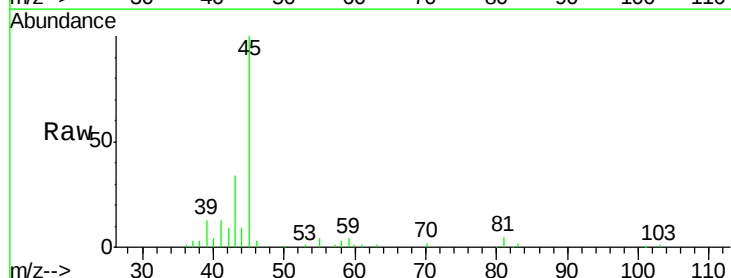
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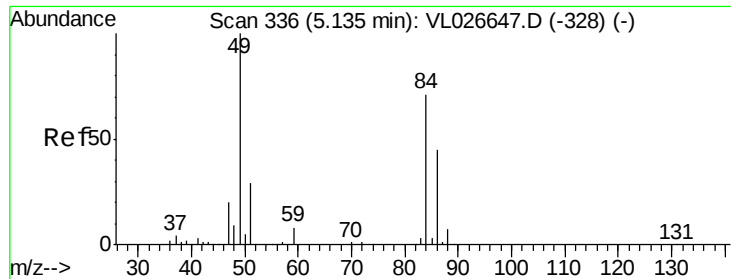


#19

Isopropyl Alcohol
Concen: 5.36 ppbv
RT: 4.79 min Scan# 279
Delta R.T. 0.05 min
Lab File: VL026680.D
Acq: 12 Jan 2016 18:36

Tgt Ion	45	Ratio	Lower	Upper
45	100			
58	0.0		1.3	1.9#





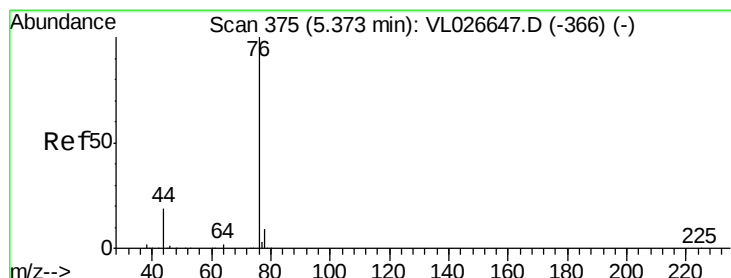
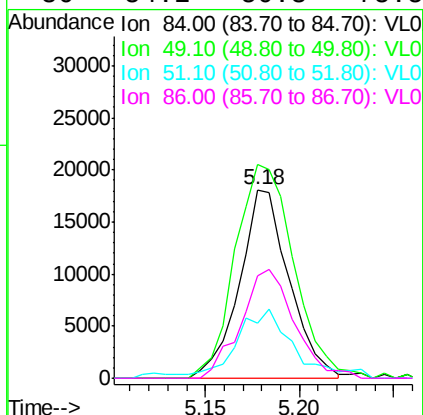
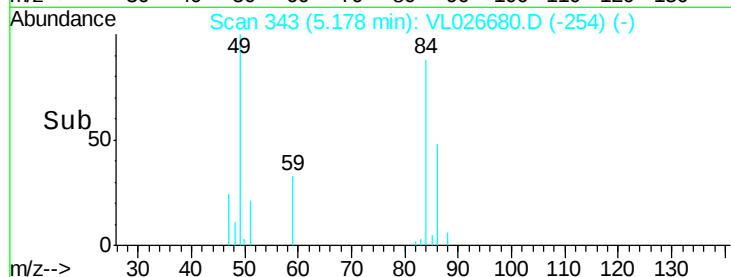
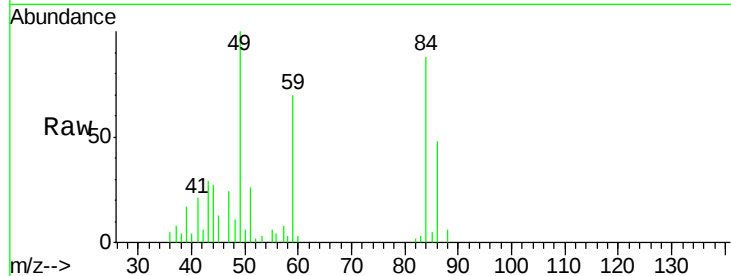
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Methvlene Chloride
Concen: 0.64 ppbv
RT: 5.18 min Scan# 343
Delta R.T. 0.04 min
Lab File: VL026680.D
Acq: 12 Jan 2016 18:36

Instrument :
MSVOA_L
ClientSampleId :
SS-5

Tot Ion	Ratio	Lower	Upper
84	100		
49	113.2	112.3	168.5
51	27.1	32.5	48.7#
86	54.2	50.3	75.5

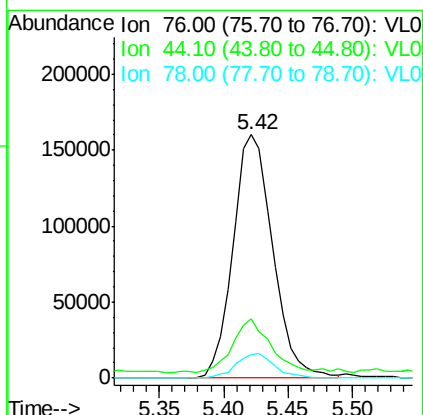
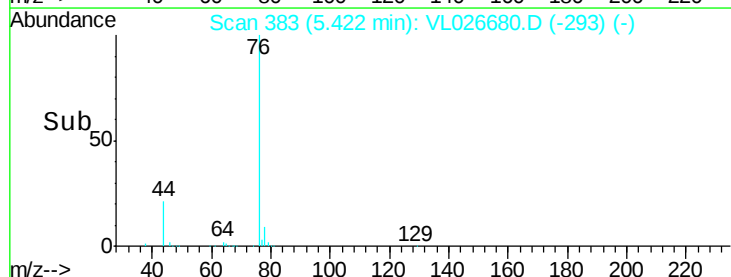
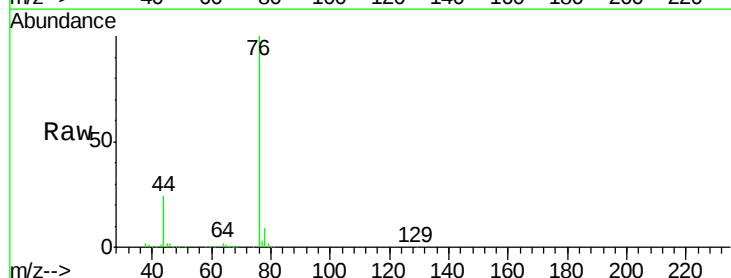
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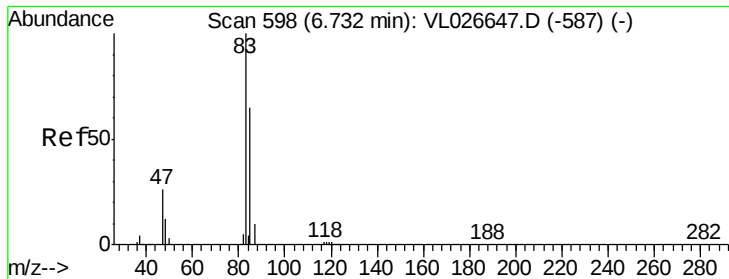
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#27
Carbon Disulfide
Concen: 2.31 ppbv
RT: 5.42 min Scan# 383
Delta R.T. 0.05 min
Lab File: VL026680.D
Acq: 12 Jan 2016 18:36

Tgt Ion	Ratio	Lower	Upper
76	100		
44	27.1	15.9	23.9#
78	10.1	7.6	11.4





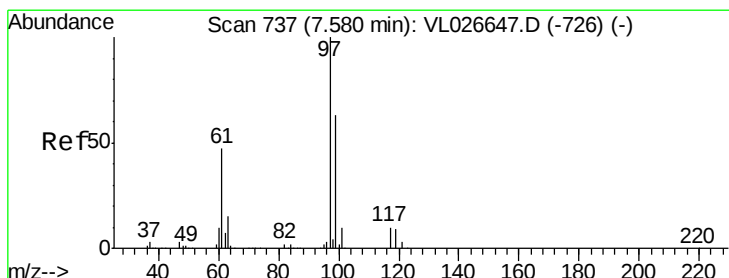
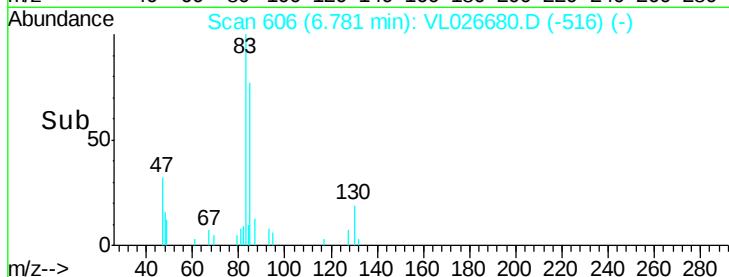
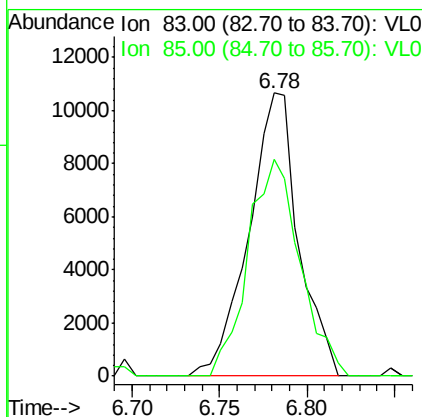
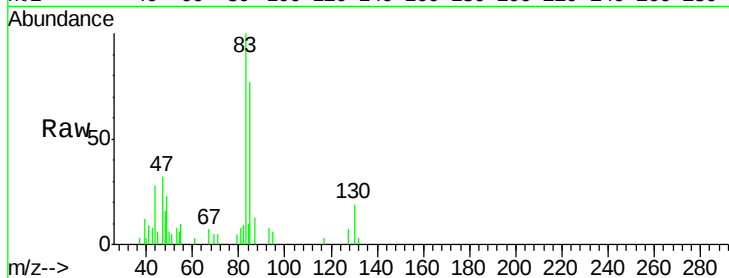
#29
Chloroform
Concen: 0.12 ppbv
RT: 6.78 min Scan# 606
Delta R.T. 0.05 min
Lab File: VL026680.D
Acq: 12 Jan 2016 18:36

Instrument :
MSVOA_L
ClientSampled :
SS-5

Tot Ion: 83 Resp: 21296
Ion Ratio Lower Upper
83 100
85 76.7 51.6 77.4

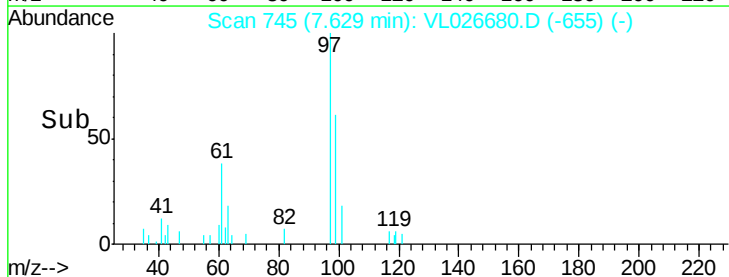
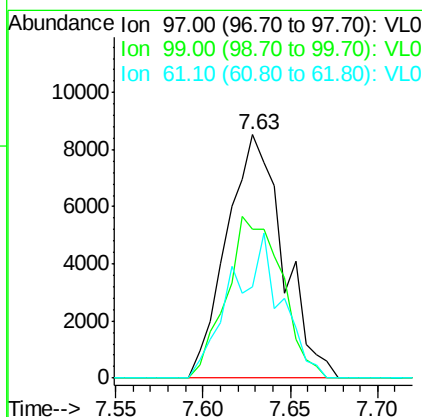
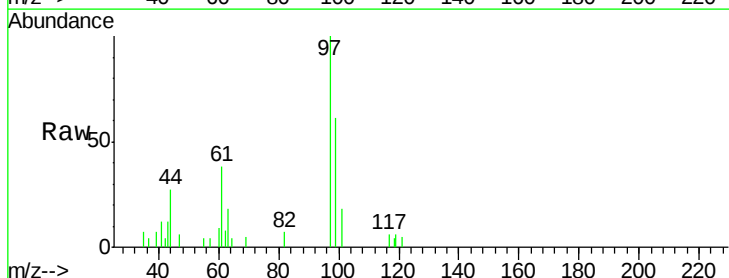
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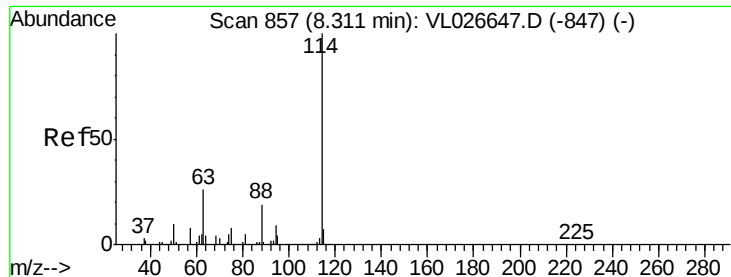
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#32
1,1,1-Trichloroethane
Concen: 0.09 ppbv
RT: 7.63 min Scan# 745
Delta R.T. 0.05 min
Lab File: VL026680.D
Acq: 12 Jan 2016 18:36

Tgt Ion: 97 Resp: 19172
Ion Ratio Lower Upper
97 100
99 64.9 50.8 76.2
61 51.8 38.9 58.3





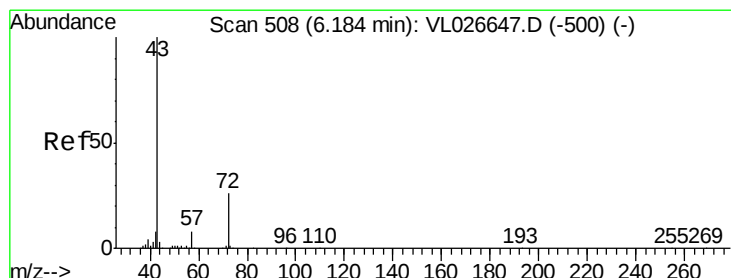
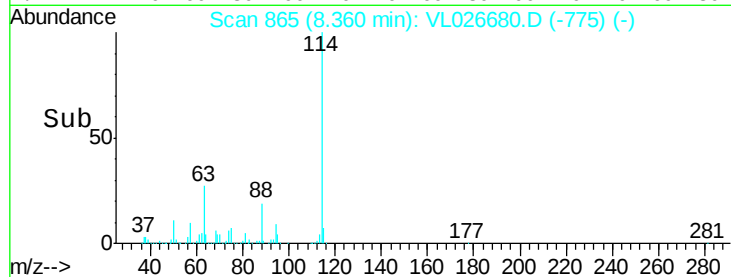
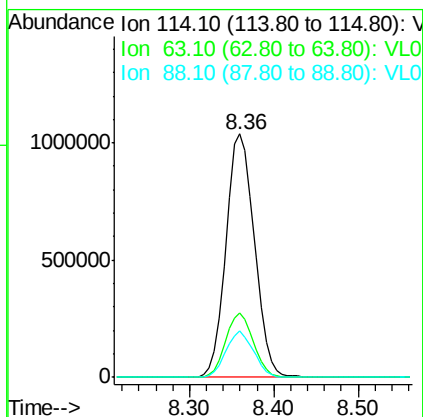
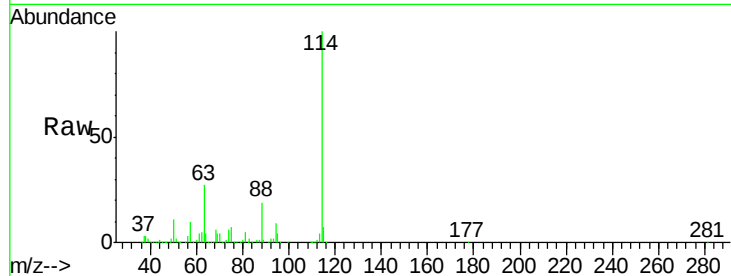
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.36 min Scan# 865
 Delta R.T. 0.05 min
 Lab File: VL026680.D
 Acq: 12 Jan 2016 18:36

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-5

Tot Ion:114 Resp: 2390166
 Ion Ratio Lower Upper
 114 100
 63 25.9 21.7 32.5
 88 18.6 15.2 22.8

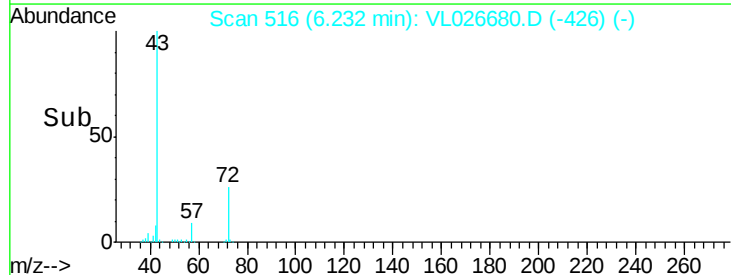
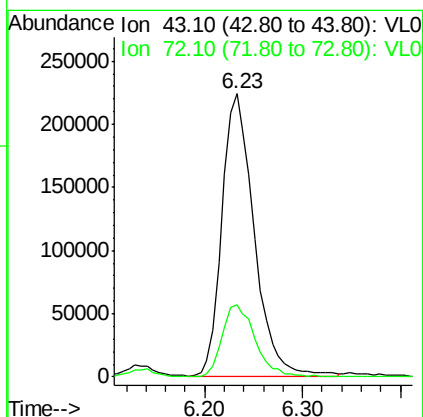
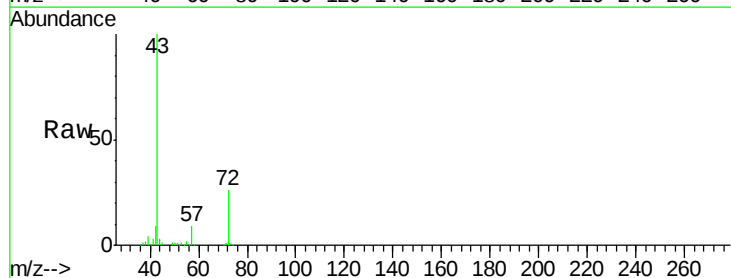
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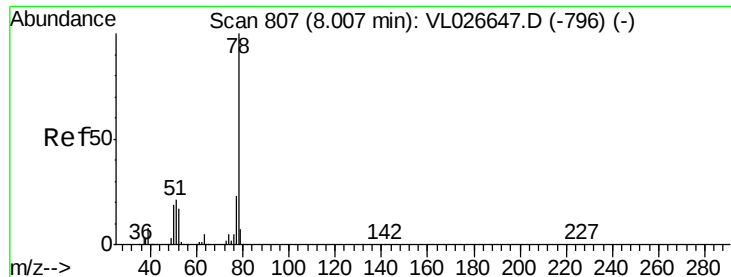
mohammad
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#34
 2-Butanone
 Concen: 3.99 ppbv
 RT: 6.23 min Scan# 516
 Delta R.T. 0.05 min
 Lab File: VL026680.D
 Acq: 12 Jan 2016 18:36

Tgt Ion: 43 Resp: 508671
 Ion Ratio Lower Upper
 43 100
 72 26.6 20.9 31.3





#36

Benzene

Concen: 0.23 ppbv

RT: 8.06 min Scan# 815

Delta R.T. 0.05 min

Lab File: VL026680.D

Acq: 12 Jan 2016 18:36

Instrument :

MSVOA_L

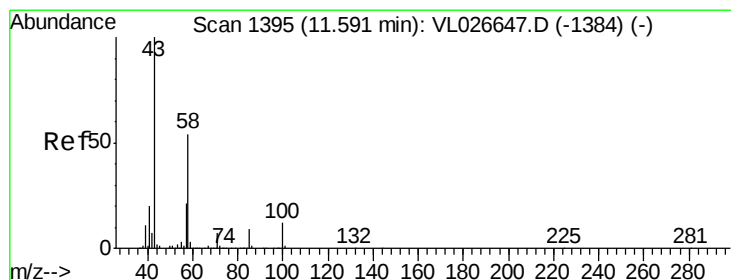
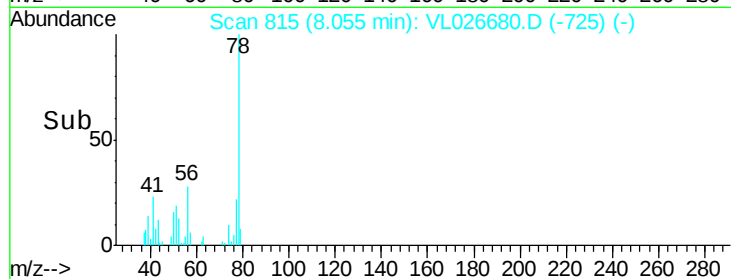
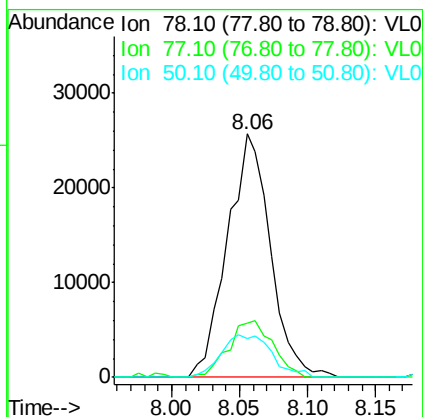
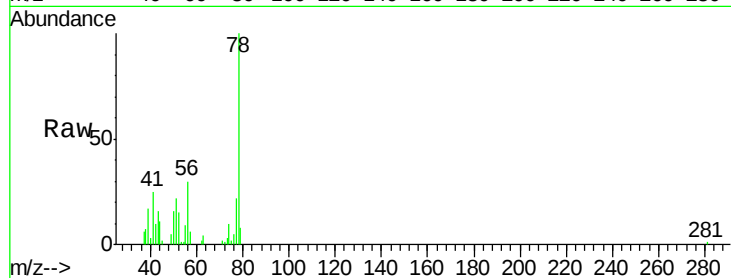
ClientSampleId :

SS-5

Tot Ion:	78	Resp:	56637
Ion	Ratio	Lower	Upper
78	100		
77	22.1	18.5	27.7
50	15.9	15.4	23.2

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#51

2-Hexanone

Concen: 0.21 ppbv

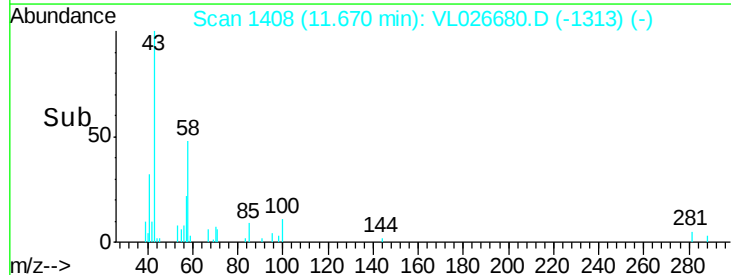
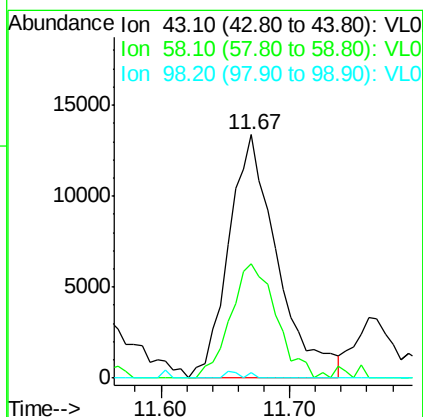
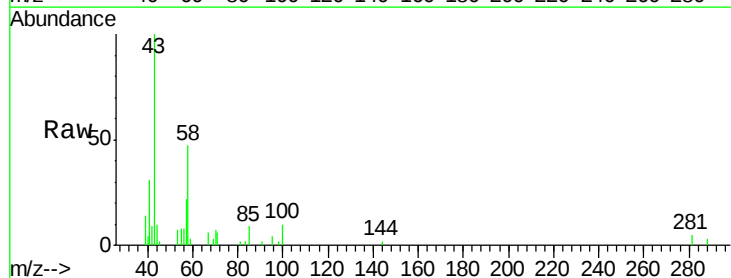
RT: 11.67 min Scan# 1408

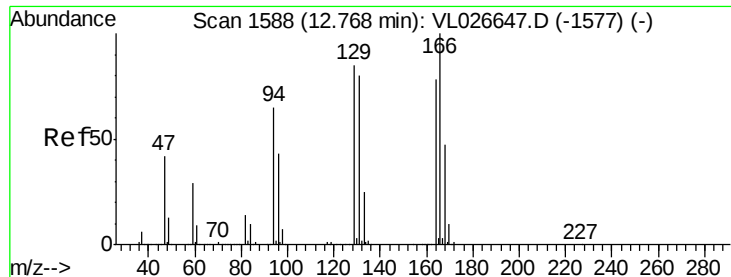
Delta R.T. 0.08 min

Lab File: VL026680.D

Acq: 12 Jan 2016 18:36

Tgt Ion:	43	Resp:	35025
Ion	Ratio	Lower	Upper
43	100		
58	46.2	44.9	67.3
98	1.1	0.2	0.2#





#52

Tetrachloroethene

Concen: 0.11 ppbv

RT: 12.83 min Scan# 1598

Delta R.T. 0.06 min

Lab File: VL026680.D

Acq: 12 Jan 2016 18:36

Instrument :

MSVOA_L

ClientSampled :

SS-5

Tot Ion:164 Resp: 12977

Ion Ratio Lower Upper

164 100

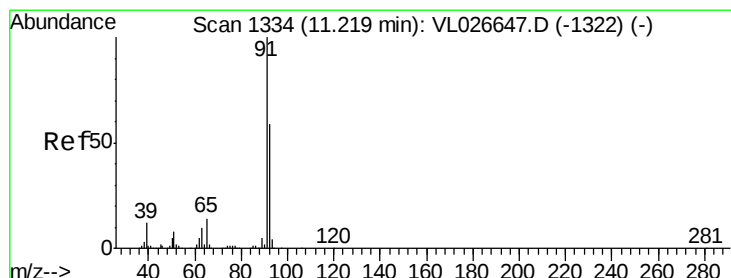
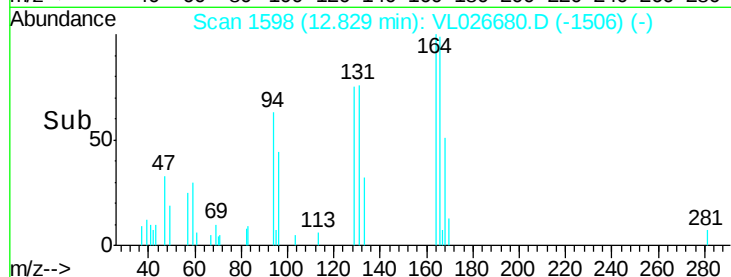
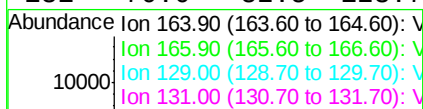
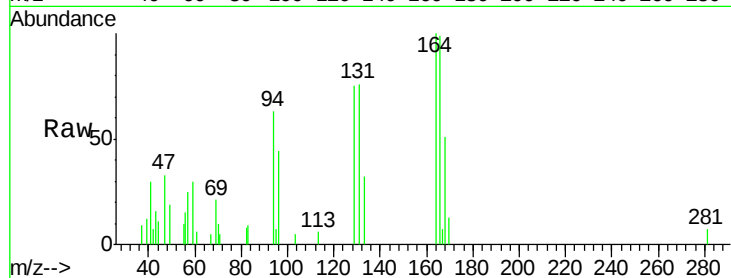
166 89.8 102.5 153.7#

129 68.7 87.0 130.6#

131 70.0 82.5 123.7#

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#53

Toluene

Concen: 4.44 ppbv

RT: 11.27 min Scan# 1343

Delta R.T. 0.05 min

Lab File: VL026680.D

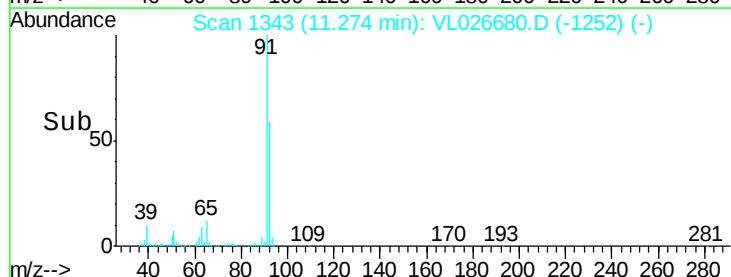
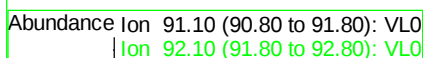
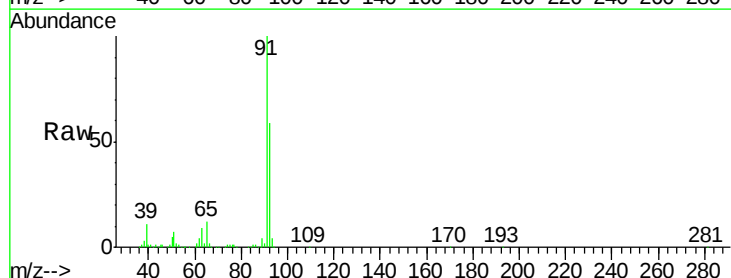
Acq: 12 Jan 2016 18:36

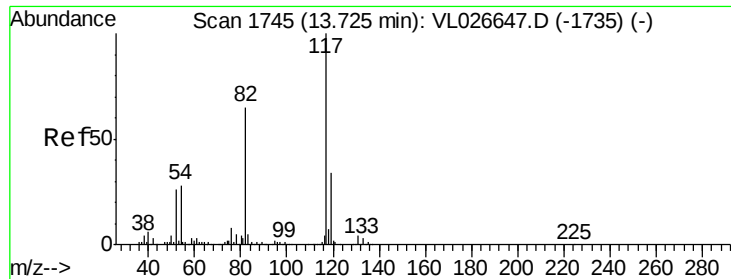
Tgt Ion: 91 Resp: 1538196

Ion Ratio Lower Upper

91 100

92 59.6 48.2 72.4





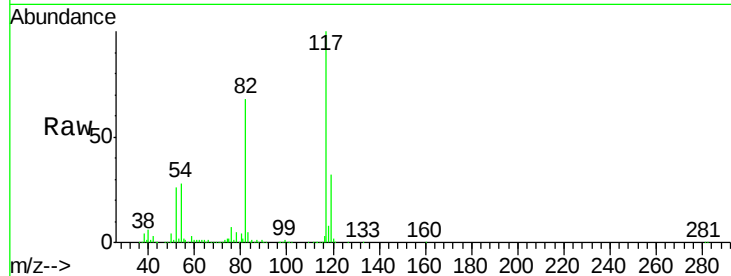
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.78 min Scan# 1754
Delta R.T. 0.05 min
Lab File: VL026680.D
Acq: 12 Jan 2016 18:36

Instrument :
MSVOA_L
ClientSampled :
SS-5

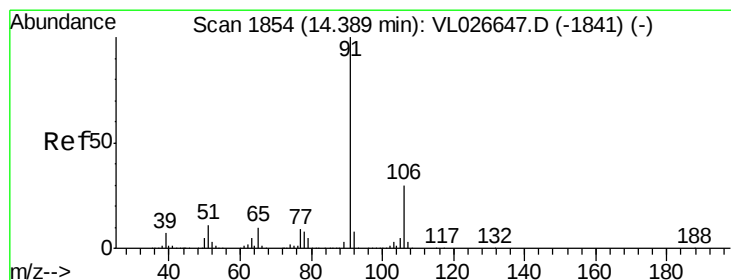
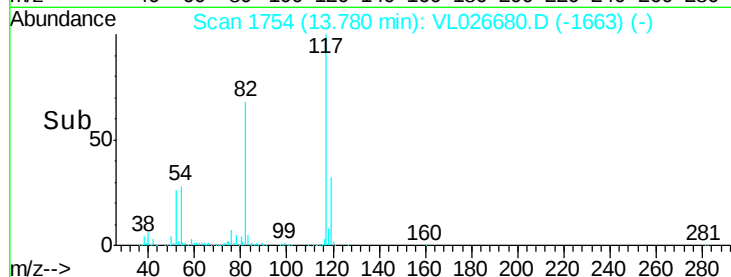
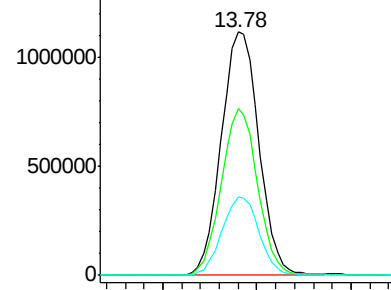
Tot Ion	Ratio	Lower	Upper
117	100		
82	66.6	49.7	74.5
119	32.1	43.8	65.8

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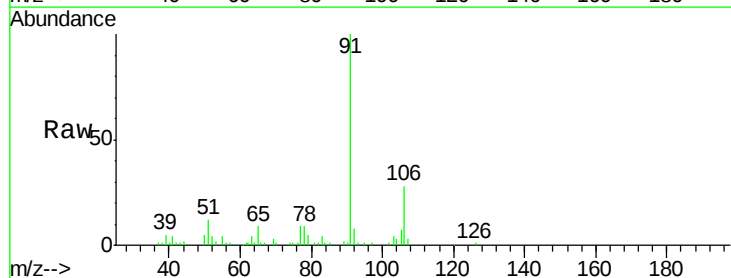


Abundance Ion 117.10 (116.80 to 117.80): V
1500000
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

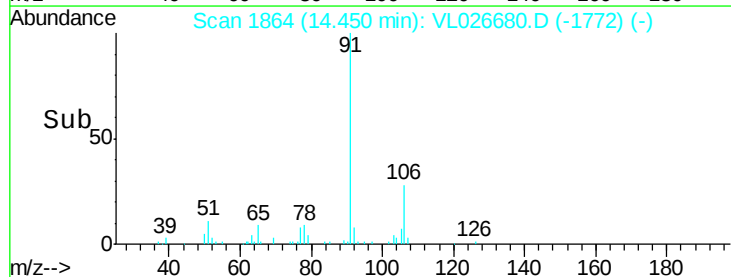
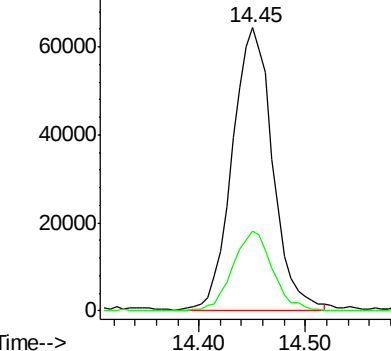


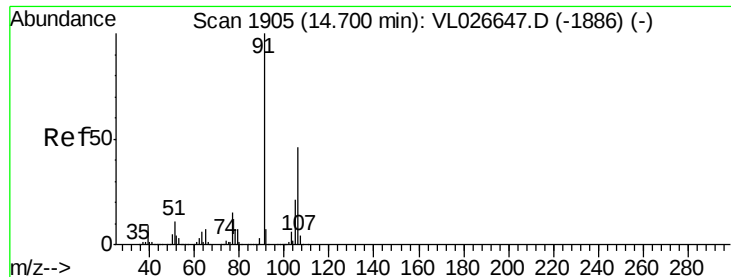
#58
Ethyl Benzene
Concen: 0.31 ppbv
RT: 14.45 min Scan# 1864
Delta R.T. 0.06 min
Lab File: VL026680.D
Acq: 12 Jan 2016 18:36

Tgt Ion	Ratio	Lower	Upper
91	100		
106	28.0	23.8	35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





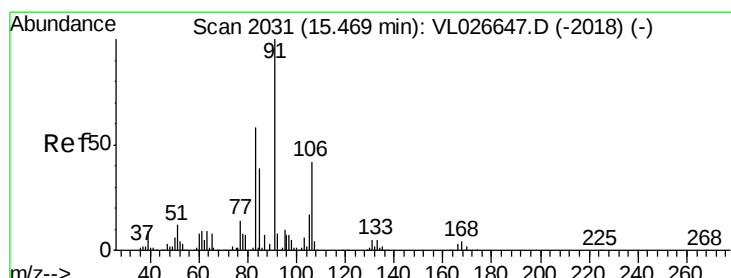
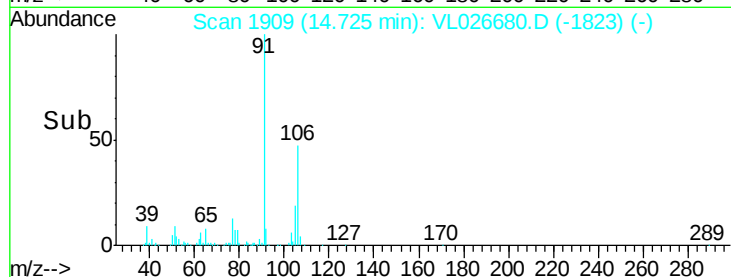
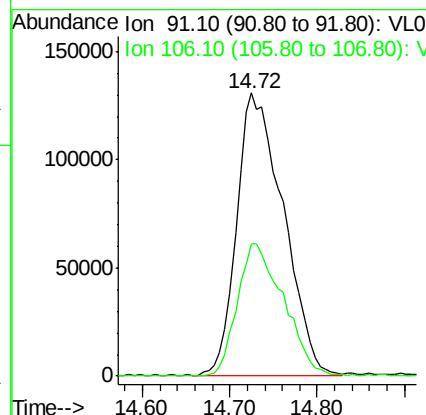
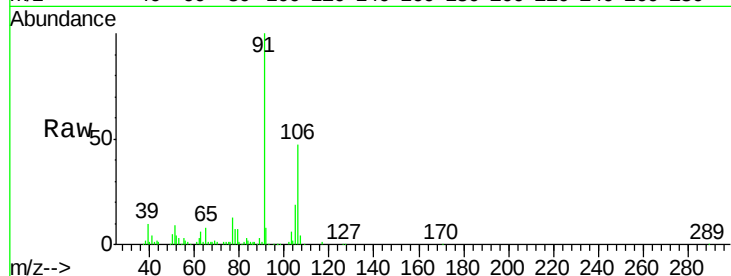
#59
m/p-Xylene
Concen: 1.06 ppbv
RT: 14.72 min Scan# 1909
Delta R.T. 0.02 min
Lab File: VL026680.D
Acq: 12 Jan 2016 18:36

Instrument :
MSVOA_L
ClientSampled :
SS-5

Tot Ion: 91 Resp: 486836
Ion Ratio Lower Upper
91 100
106 46.7 36.6 55.0

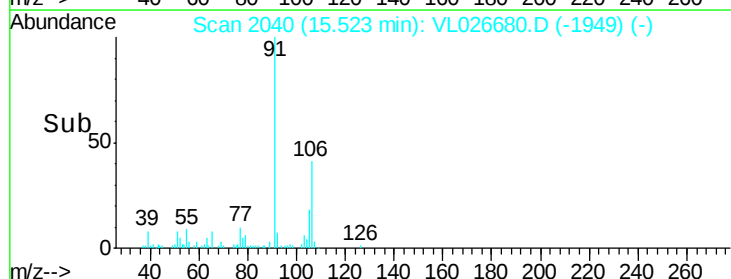
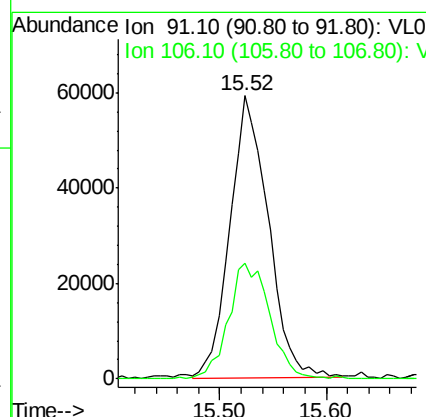
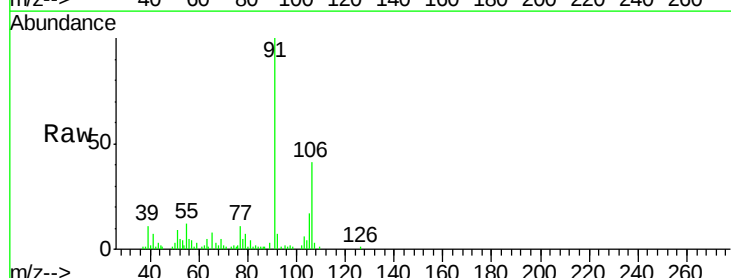
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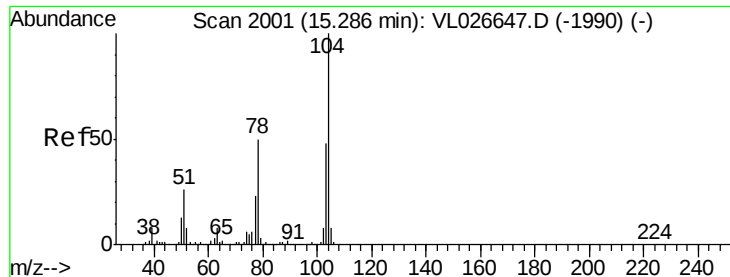
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#60
o-Xylene
Concen: 0.30 ppbv
RT: 15.52 min Scan# 2040
Delta R.T. 0.05 min
Lab File: VL026680.D
Acq: 12 Jan 2016 18:36

Tgt Ion: 91 Resp: 149944
Ion Ratio Lower Upper
91 100
106 44.0 21.5 64.5





#61

Stvrene

Concen: 0.16 ppbv

RT: 15.36 min Scan# 2013

Delta R.T. 0.07 min

Lab File: VL026680.D

Acq: 12 Jan 2016 18:36

Instrument :

MSVOA_L

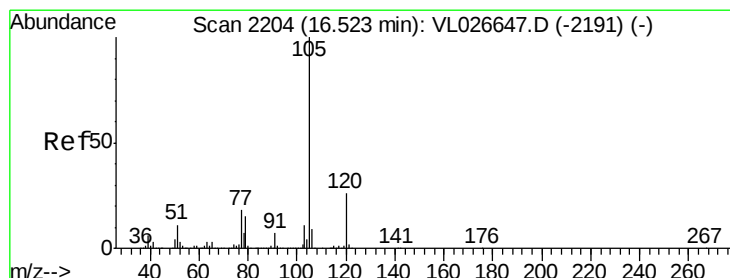
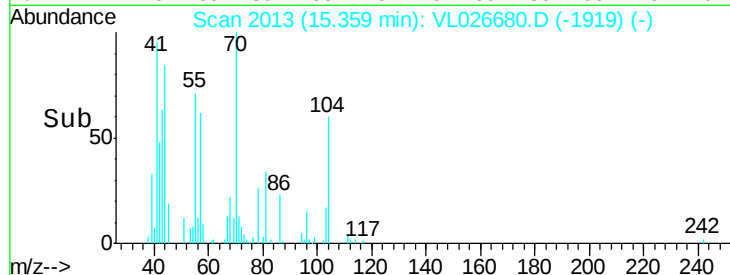
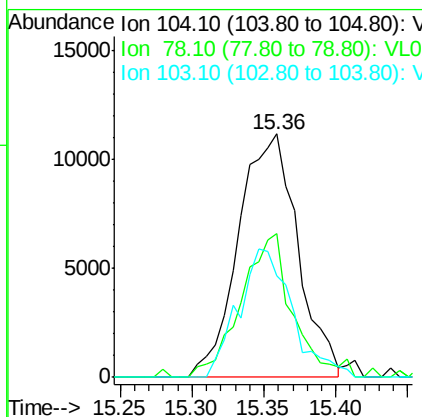
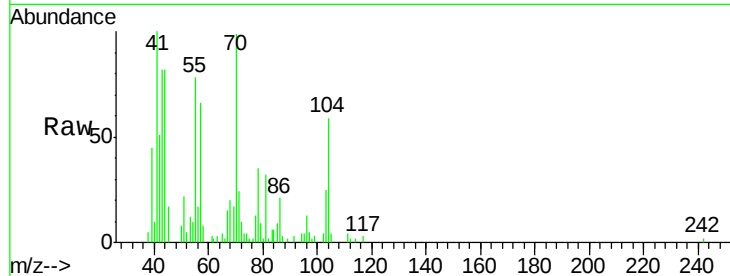
ClientSampled :

SS-5

Tot Ion:	104	Resp:	31923
Ion Ratio	Lower	Upper	
104	100		
78	51.9	39.6	59.4
103	47.9	37.8	56.6

Manual Integrations
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#62

Isopropylbenzene

Concen: 0.89 ppbv

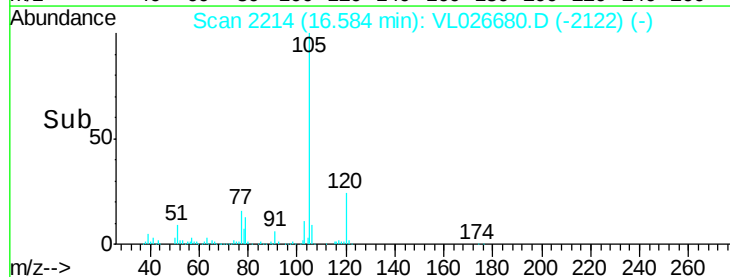
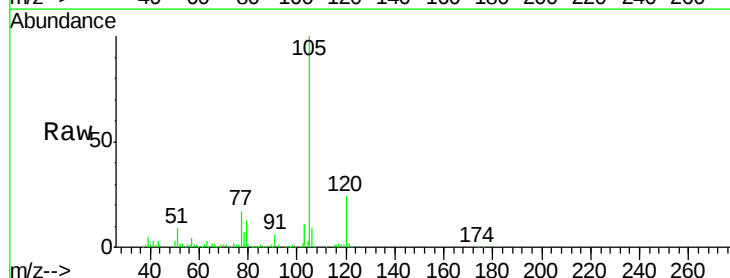
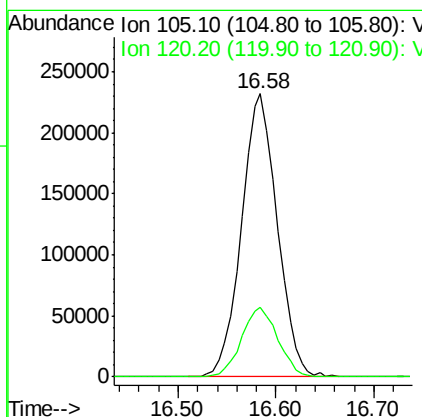
RT: 16.58 min Scan# 2214

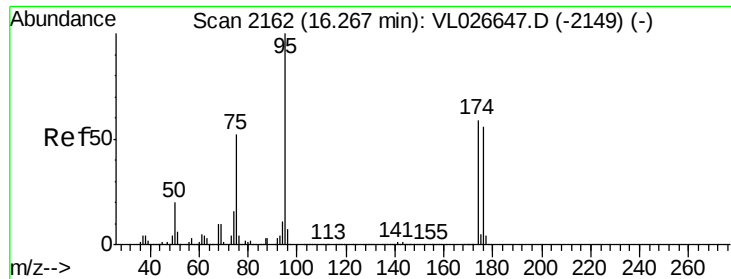
Delta R.T. 0.06 min

Lab File: VL026680.D

Acq: 12 Jan 2016 18:36

Tgt Ion:	105	Resp:	588011
Ion Ratio	Lower	Upper	
105	100		
120	25.2	20.3	30.5





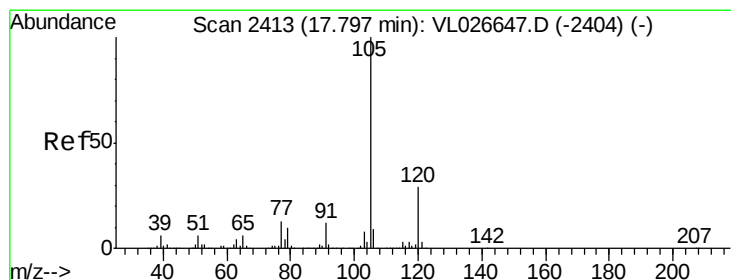
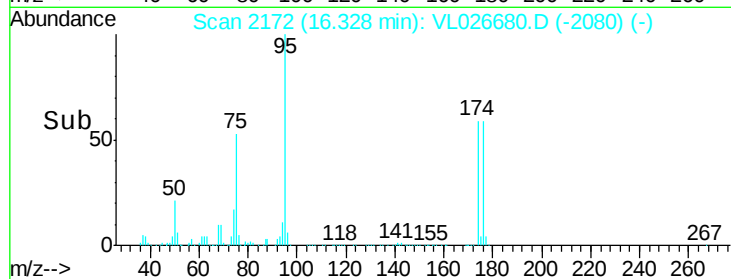
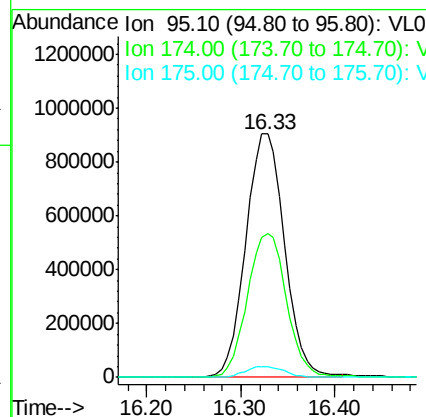
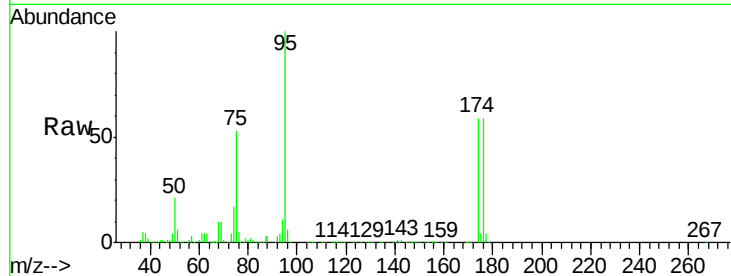
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.47 ppbv
 RT: 16.33 min Scan# 2172
 Delta R.T. 0.06 min
 Lab File: VL026680.D
 Acq: 12 Jan 2016 18:36

Instrument :
 MSVOA_L
 ClientSampled :
 SS-5

Tot Ion: 95 Resp: 2603303
 Ion Ratio Lower Upper
 95 100
 174 60.2 47.8 71.8
 175 4.6 3.6 5.4

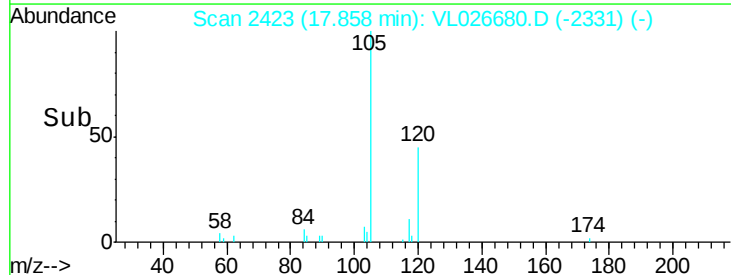
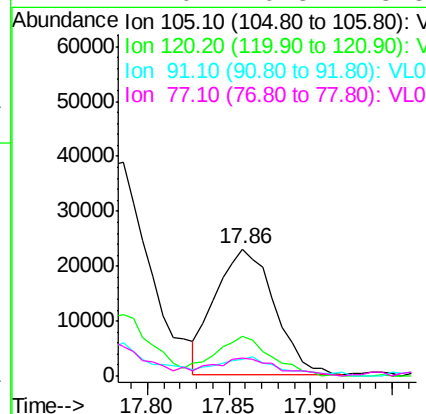
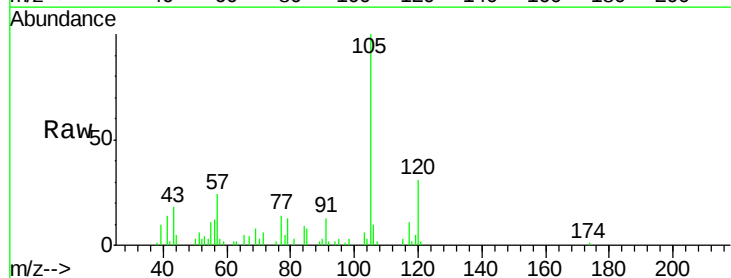
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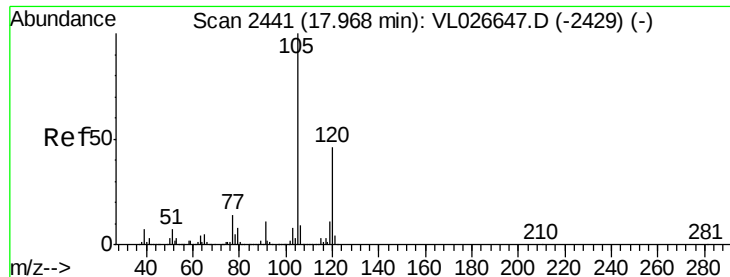
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#72
 4-Ethyltoluene
 Concen: 0.10 ppbv
 RT: 17.86 min Scan# 2423
 Delta R.T. 0.06 min
 Lab File: VL026680.D
 Acq: 12 Jan 2016 18:36

Tgt Ion: 105 Resp: 57795
 Ion Ratio Lower Upper
 105 100
 120 30.4 23.7 35.5
 91 16.8 9.7 14.5#
 77 17.0 10.3 15.5#





#73

1,3,5-Trimethylbenzene

Concen: 0.07 ppbv

RT: 18.03 min Scan# 2451

Delta R.T. 0.06 min

Lab File: VL026680.D

Acq: 12 Jan 2016 18:36

Instrument :

MSVOA_L

ClientSampleId :

SS-5

Tot Ion:105 Resp: 36925

Ion Ratio Lower Upper

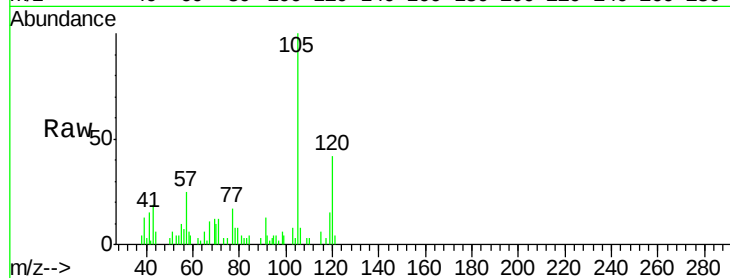
105 100

120 41.9 36.6 54.8

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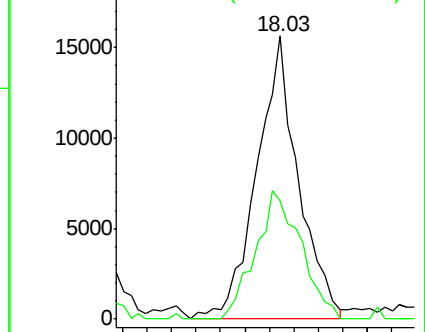
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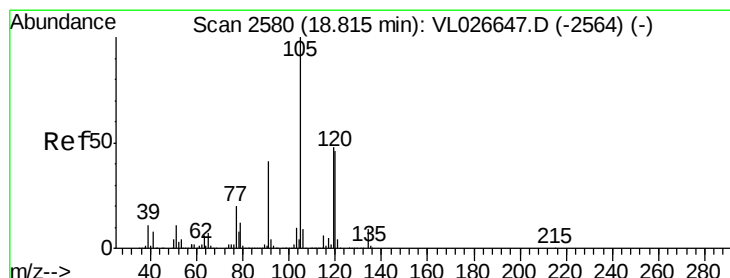
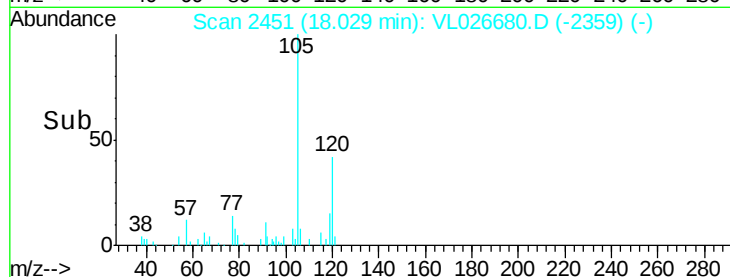


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



Time--> 17.90 18.00 18.10



#74

1,2,4-Trimethylbenzene

Concen: 0.28 ppbv

RT: 18.88 min Scan# 2590

Delta R.T. 0.06 min

Lab File: VL026680.D

Acq: 12 Jan 2016 18:36

Tgt Ion:105 Resp: 155433

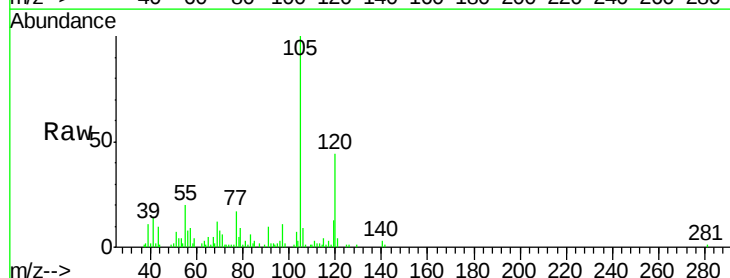
Ion Ratio Lower Upper

105 100

120 43.8 36.6 55.0

91 7.8 32.5 48.7#

77 15.1 15.7 23.5#

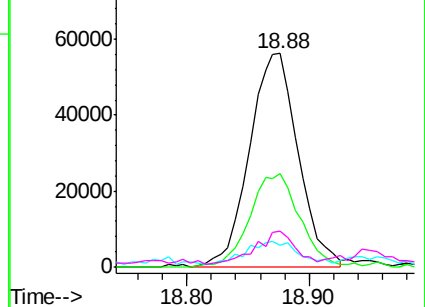


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



Time--> 18.80 18.90

