

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL111115\
 Data File : VL026366.D
 Acq On : 11 Nov 2015 16:01
 Operator : SY/AP
 Sample : G4364-02DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 DIN46INFLUENT110615DUP

Manual Integrations
 APPROVED

mohammad
 11/12/2015 6:51:55 PM

Quant Time: Nov 12 17:56:08 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102915AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 29 14:29:54 2015
 QLast Update : Thu Oct 29 14:29:54 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.66	49	499373	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	8.34	114	1272010	10.00	ppbv	-0.04
55) Chlorobenzene-d5	13.76	117	1296705	10.00	ppbv	-0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.30	95	922841	9.38	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.65	85	56170	0.53	ppbv	97
3) Chlorodifluoromethane	3.57	51	151891m	2.42	ppbv	
4) Chloromethane	3.76	50	21654	0.60	ppbv	99
5) Vinyl Chloride	3.90	62	2414	0.06	ppbv #	44
10) Heptane	9.37	43	17661	0.17	ppbv	95
11) Trichlorofluoromethane	4.70	101	24771	0.24	ppbv	99
13) Ethanol	4.35	45	45500	10.05	ppbv	97
19) Isopropyl Alcohol	4.80	45	25607	0.90	ppbv #	24
20) Methylene Chloride	5.16	84	33410	1.16	ppbv	95
25) Ethyl Acetate	6.69	43	198562	1.44	ppbv #	88
31) cis-1,2-Dichloroethene	6.53	61	107112	1.73	ppbv	99
34) 2-Butanone	6.22	43	55483	0.72	ppbv	100
36) Benzene	8.03	78	20047	0.15	ppbv	95
38) Trichloroethene	9.07	130	166417	2.57	ppbv	97
50) 4-Methyl-2-Pentanone	10.14	43	8782	0.09	ppbv #	86
53) Toluene	11.25	91	950756	5.44	ppbv	100
58) Ethyl Benzene	14.43	91	62456	0.29	ppbv	97
59) m/p-Xylene	14.71	91	151758	0.90	ppbv #	100
60) o-Xylene	15.51	91	65712	0.37	ppbv	97
61) Styrene	15.32	104	21469	0.29	ppbv	97
64) n-propylbenzene	17.53	120	9701	0.15	ppbv	77
72) 4-Ethyltoluene	17.83	105	45442	0.23	ppbv	97
73) 1,3,5-Trimethylbenzene	18.00	105	43066	0.23	ppbv	94
74) 1,2,4-Trimethylbenzene	18.85	105	130679	0.67	ppbv #	72

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

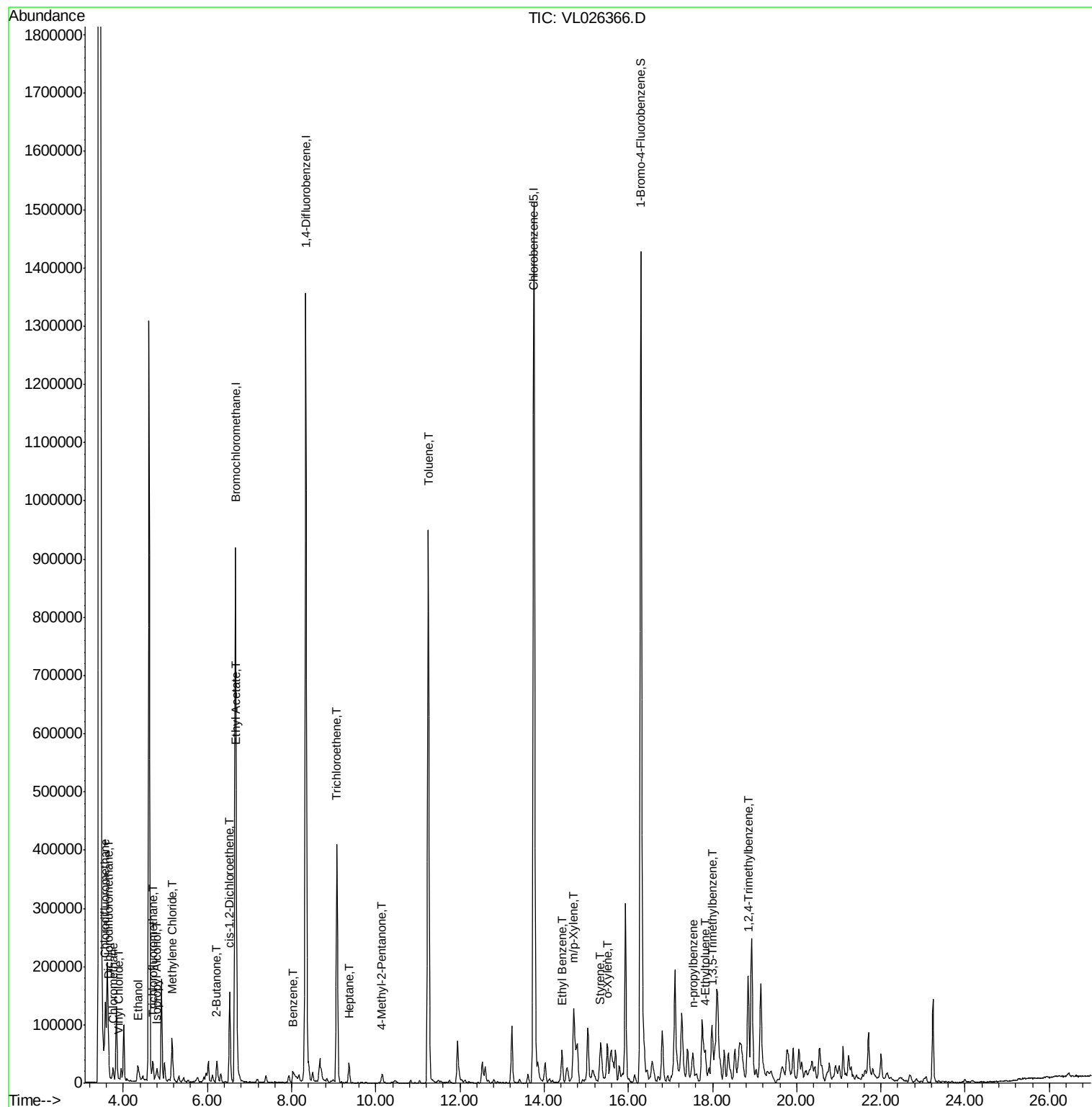
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL111115\
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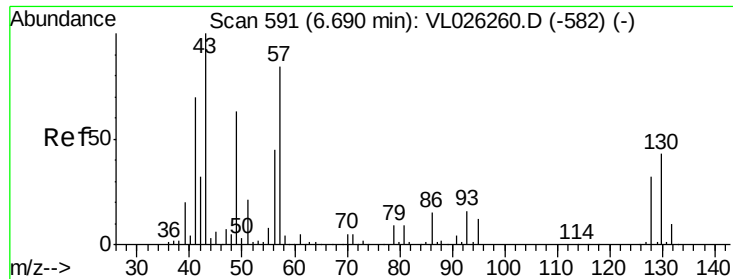
Instrument :
MSVOA_L
ClientSampleId :
DIN46INFLUENT110615DUP

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Quant Time: Nov 12 17:56:08 2015
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102915AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct
QLast Update : Thu Oct 29 14:29:54 2015
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.66 min Scan# 586

Delta R.T. -0.03 min

Lab File: VL026366.D

Acq: 11 Nov 2015 16:01

Instrument :

MSVOA_L

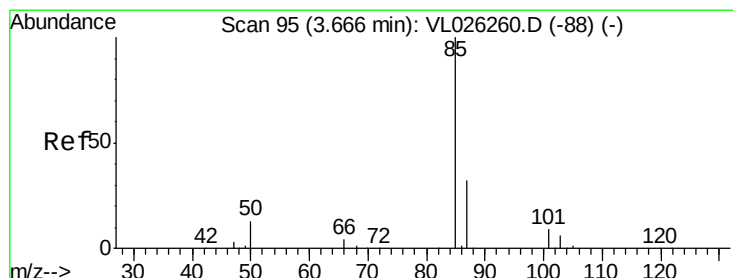
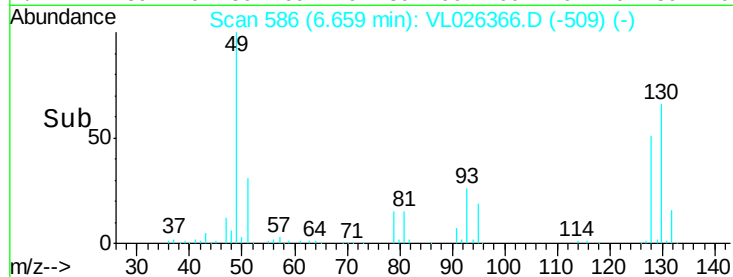
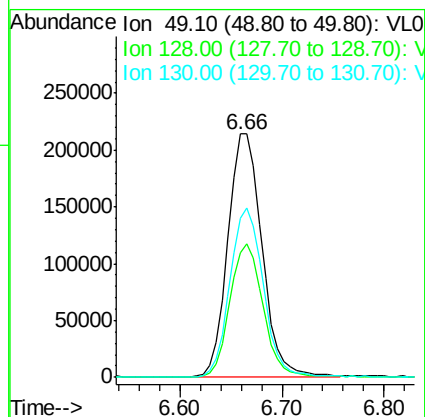
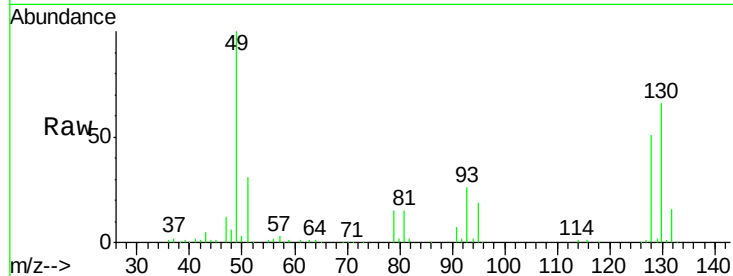
ClientSampleId :

DIN46INFLUENT110615DUP

Tot Ion: 49 Resp: 499373
 Ion Ratio Lower Upper
 49 100
 128 53.7 26.7 80.1
 130 68.9 34.4 103.2

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#2

Dichlorodifluoromethane

Concen: 0.53 ppbv

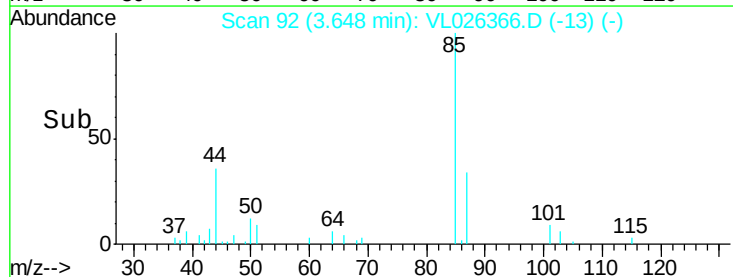
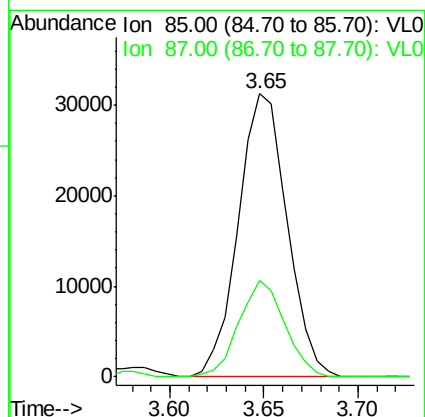
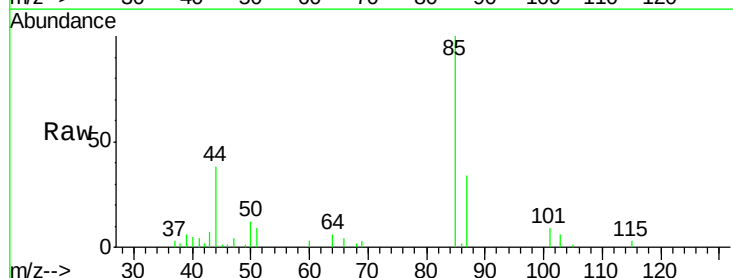
RT: 3.65 min Scan# 92

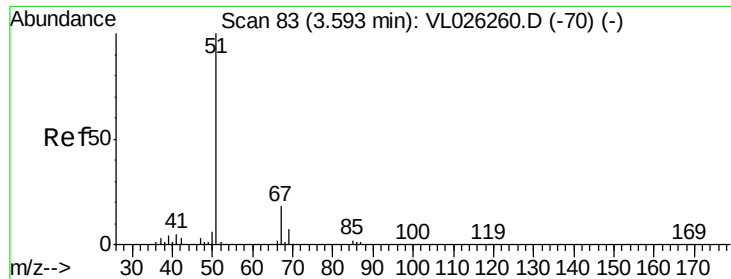
Delta R.T. -0.02 min

Lab File: VL026366.D

Acq: 11 Nov 2015 16:01

Tgt Ion: 85 Resp: 56170
 Ion Ratio Lower Upper
 85 100
 87 34.0 25.9 38.9





#3

Chlorodifluoromethane

Concen: 2.42 ppbv m

RT: 3.57 min Scan# 80

Delta R.T. -0.02 min

Lab File: VL026366.D

Acq: 11 Nov 2015 16:01

Instrument :

MSVOA_L

ClientSampleId :

DIN46INFLUENT110615DUP

Tot Ion: 51 Resp: 151891

Ion Ratio Lower Upper

51 100

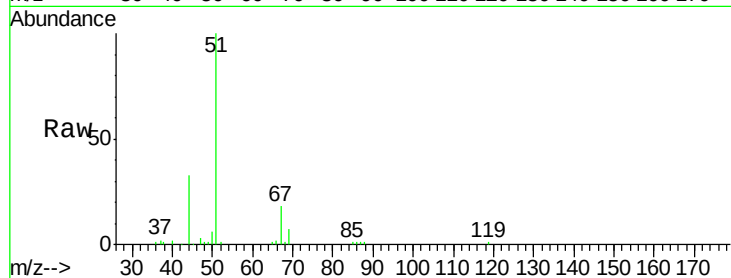
67 17.2 14.5 21.7

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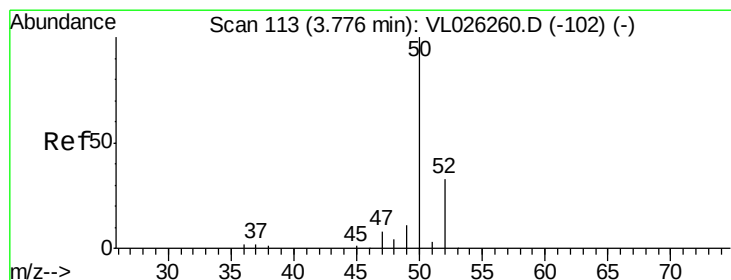
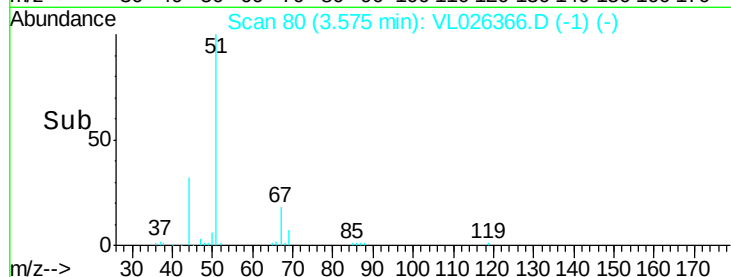
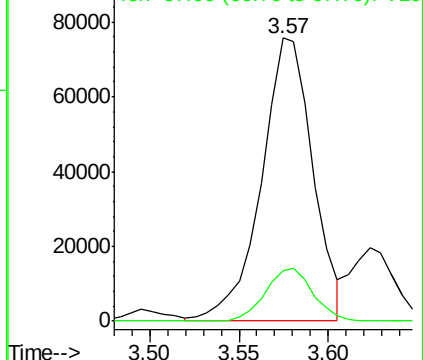
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.60 ppbv

RT: 3.76 min Scan# 110

Delta R.T. -0.02 min

Lab File: VL026366.D

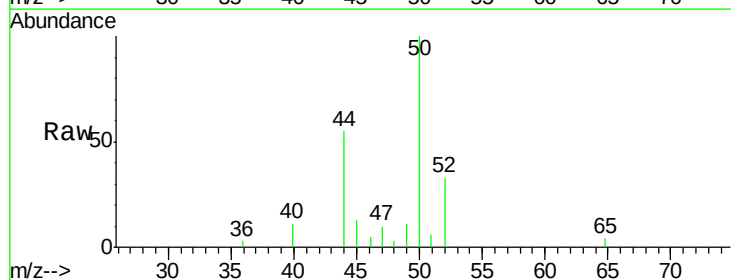
Acq: 11 Nov 2015 16:01

Tgt Ion: 50 Resp: 21654

Ion Ratio Lower Upper

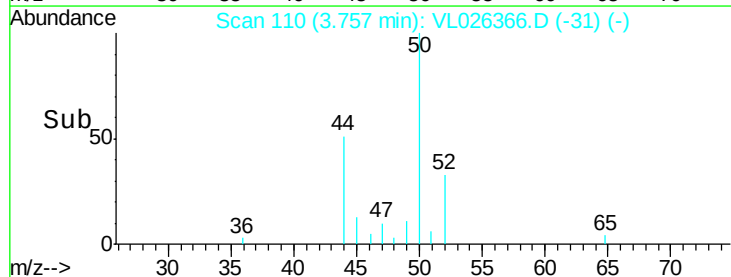
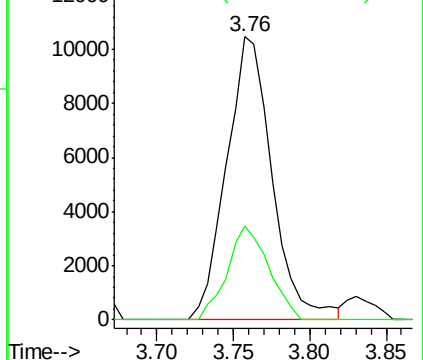
50 100

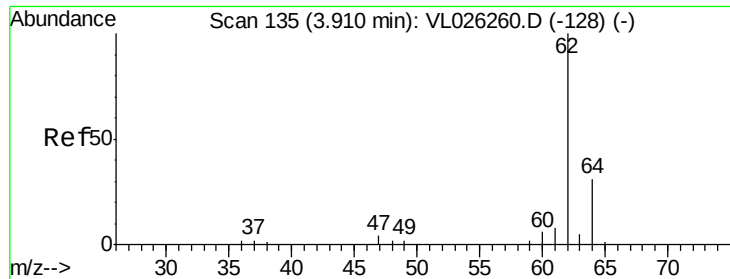
52 33.0 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.06 ppbv

RT: 3.90 min Scan# 134

Delta R.T. -0.01 min

Lab File: VL026366.D

Acq: 11 Nov 2015 16:01

Instrument :

MSVOA_L

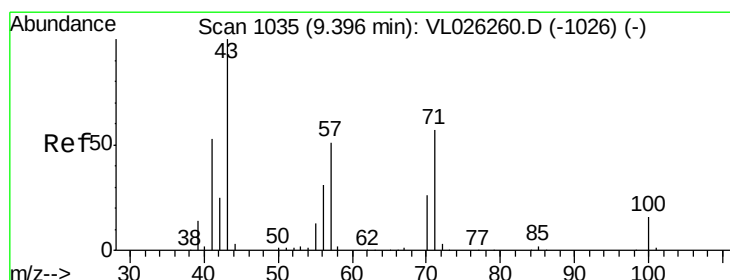
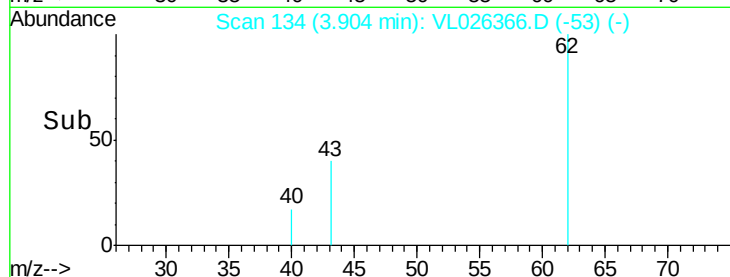
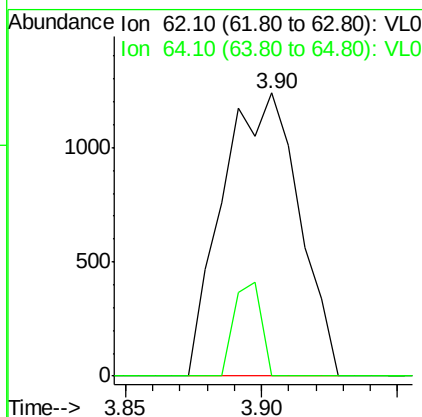
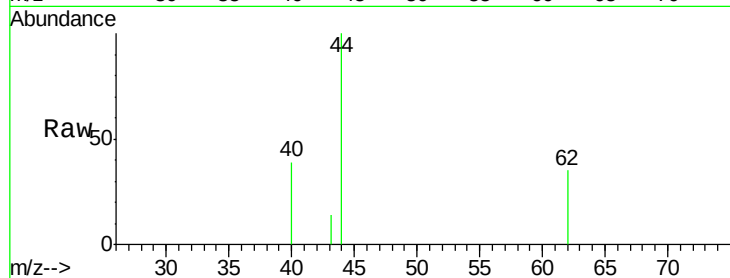
ClientSampleId :

DIN46INFLUENT110615DUP

Tot Ion	62	Resp	2414
Ion	Ratio	Lower	Upper
62	100		
64	0.0	24.9	37.3#

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#10

Heptane

Concen: 0.17 ppbv

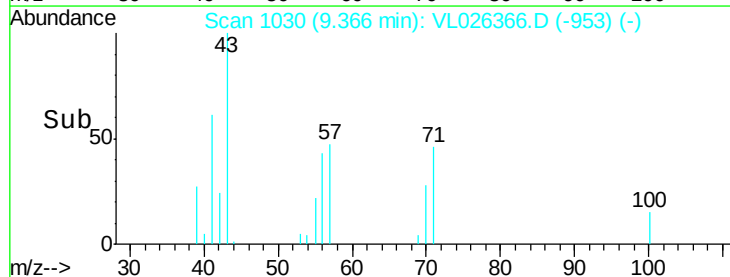
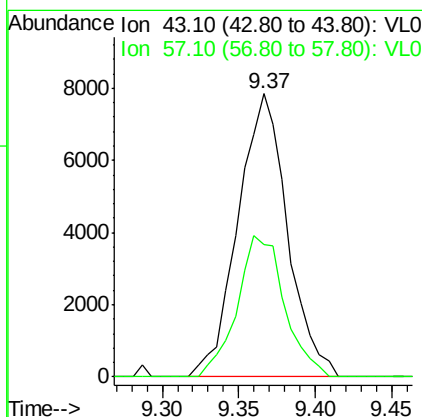
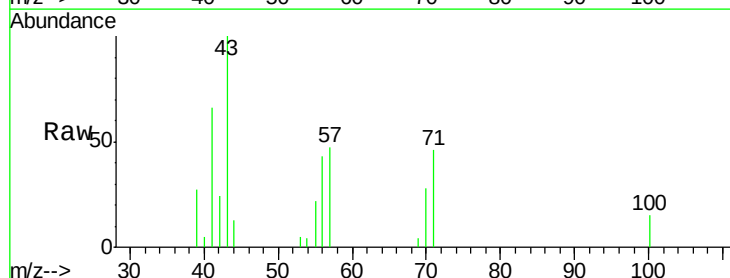
RT: 9.37 min Scan# 1030

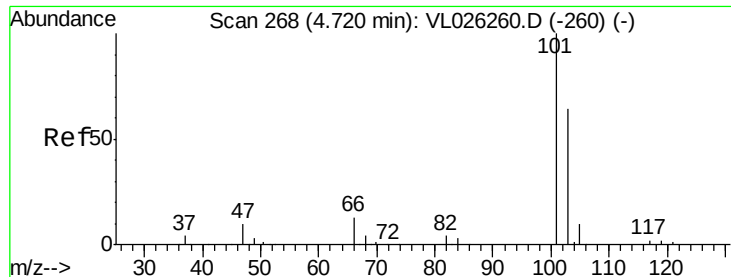
Delta R.T. -0.03 min

Lab File: VL026366.D

Acq: 11 Nov 2015 16:01

Tgt Ion	43	Resp	17661
Ion	Ratio	Lower	Upper
43	100		
57	47.6	41.1	61.7





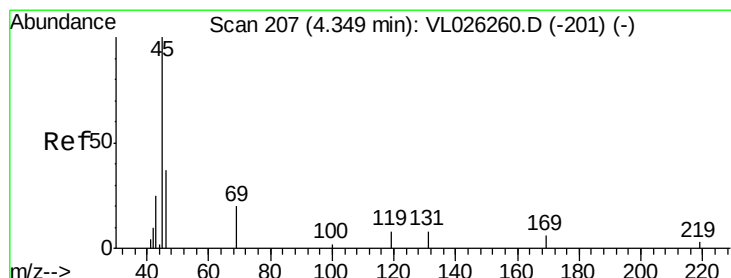
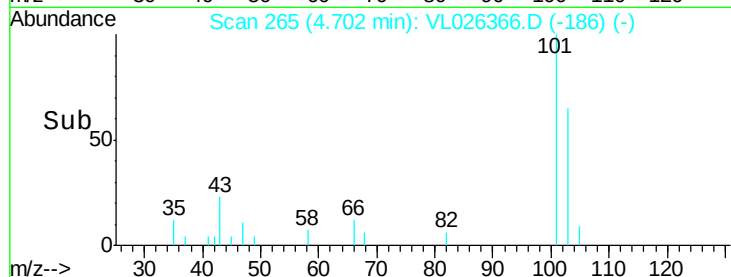
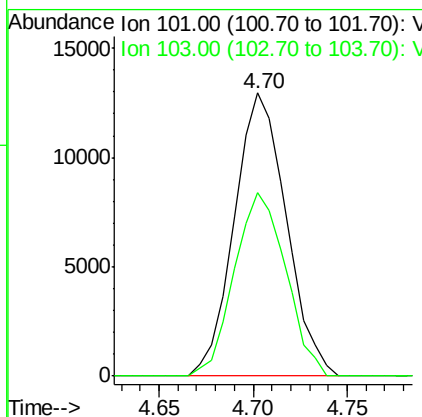
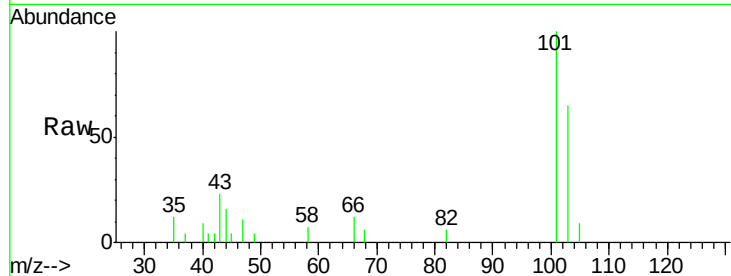
#11
 Trichlorofluoromethane
 Concen: 0.24 ppbv
 RT: 4.70 min Scan# 265
 Delta R.T. -0.02 min
 Lab File: VL026366.D
 Acq: 11 Nov 2015 16:01

Instrument :
 MSVOA_L
 ClientSampleId :
 DIN46INFLUENT110615DUP

Tot Ion:101 Resp: 24771
 Ion Ratio Lower Upper
 101 100
 103 64.9 51.4 77.0

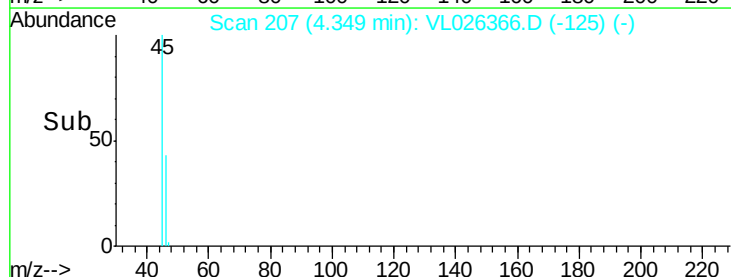
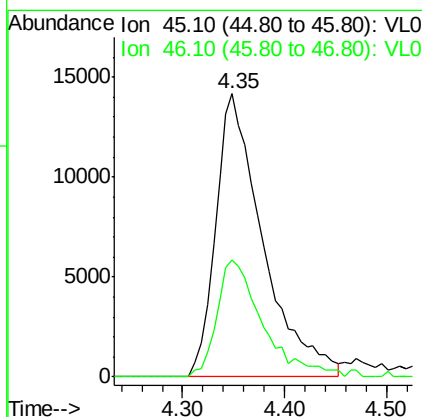
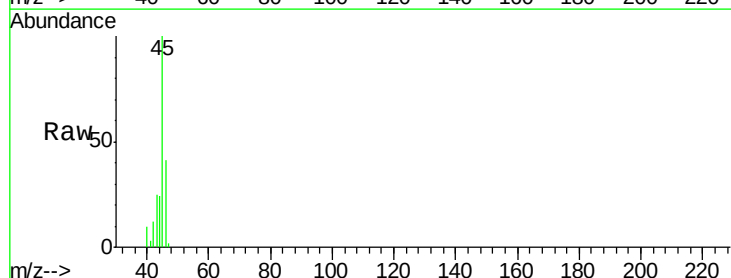
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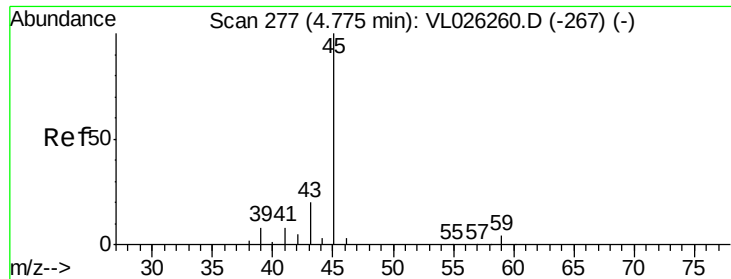
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#13
 Ethanol
 Concen: 10.05 ppbv
 RT: 4.35 min Scan# 207
 Delta R.T. 0.00 min
 Lab File: VL026366.D
 Acq: 11 Nov 2015 16:01

Tgt Ion: 45 Resp: 45500
 Ion Ratio Lower Upper
 45 100
 46 40.9 17.0 68.0





#19

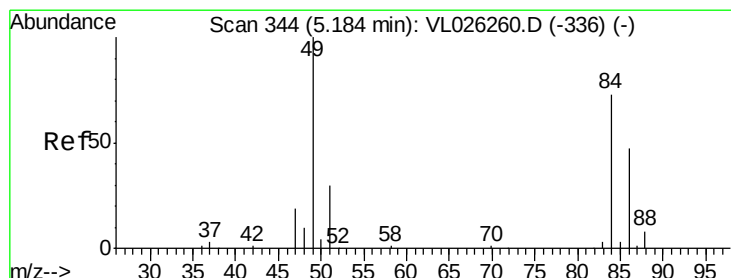
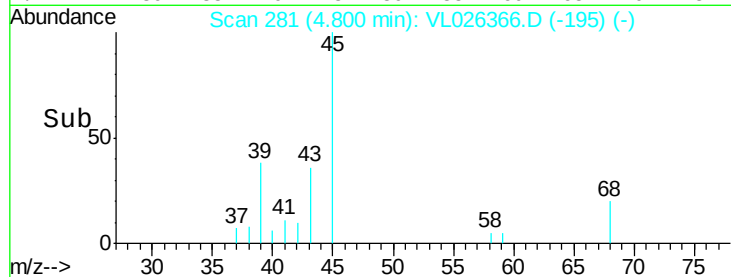
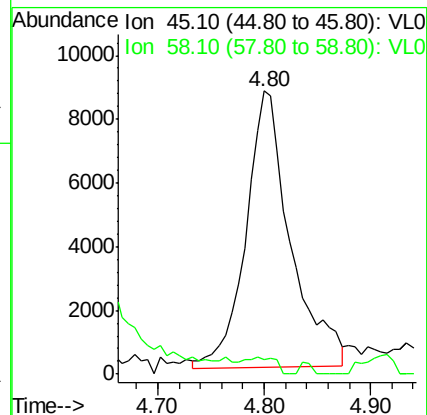
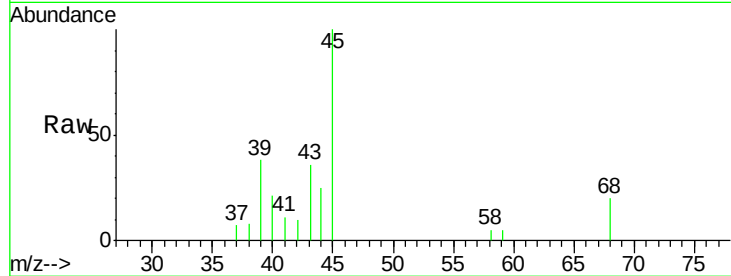
Isopropyl Alcohol
 Concen: 0.90 ppbv
 RT: 4.80 min Scan# 281
 Delta R.T. 0.02 min
 Lab File: VL026366.D
 Acq: 11 Nov 2015 16:01

Instrument :
 MSVOA_L
 ClientSampleId :
 DIN46INFLUENT110615DUP

Tot Ion: 45 Resp: 25607
 Ion Ratio Lower Upper
 45 100
 58 0.0 43.8 65.8#

Manual Integrations
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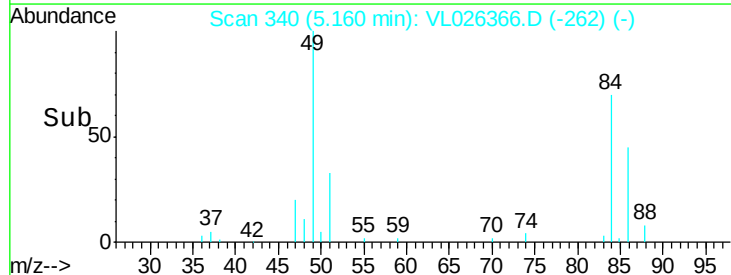
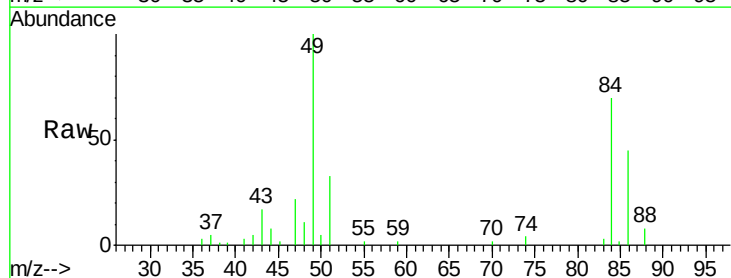
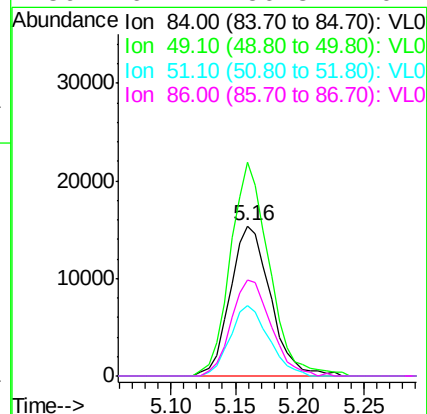
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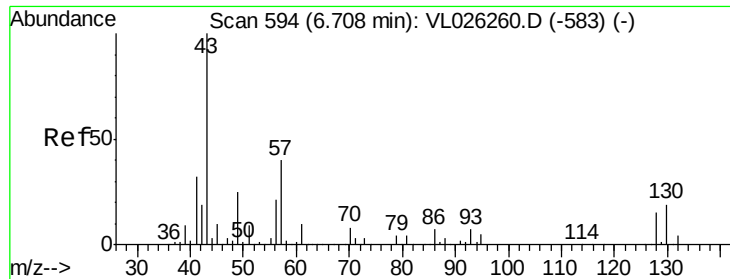


#20

Methylene Chloride
 Concen: 1.16 ppbv
 RT: 5.16 min Scan# 340
 Delta R.T. -0.02 min
 Lab File: VL026366.D
 Acq: 11 Nov 2015 16:01

Tgt Ion: 84 Resp: 33410
 Ion Ratio Lower Upper
 84 100
 49 142.1 109.0 163.4
 51 46.9 32.8 49.2
 86 64.1 50.8 76.2





#25

Ethyl Acetate

Concen: 1.44 ppbv

RT: 6.69 min Scan# 591

Delta R.T. -0.02 min

Lab File: VL026366.D

Acq: 11 Nov 2015 16:01

Instrument :

MSVOA_L

ClientSampleId :

DIN46INFLUENT110615DUP

Tot Ion: 43 Resp: 198562

Ion Ratio Lower Upper

43 100

45 16.7 7.6 11.4#

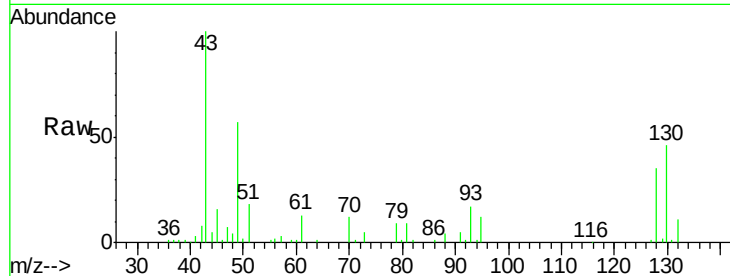
61 13.3 7.4 11.2#

70 10.2 6.7 10.1#

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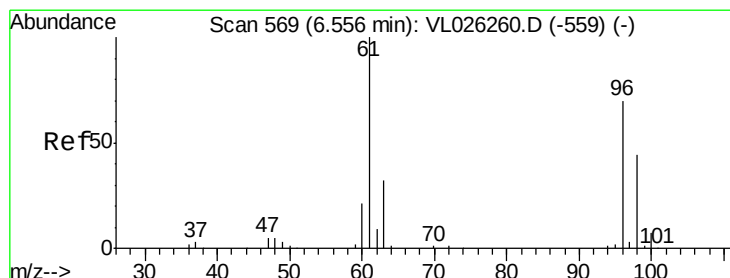
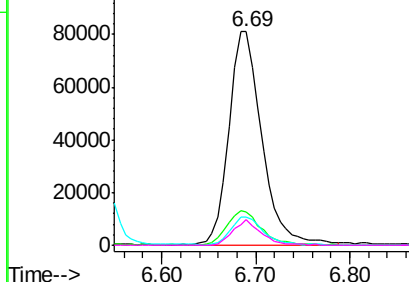
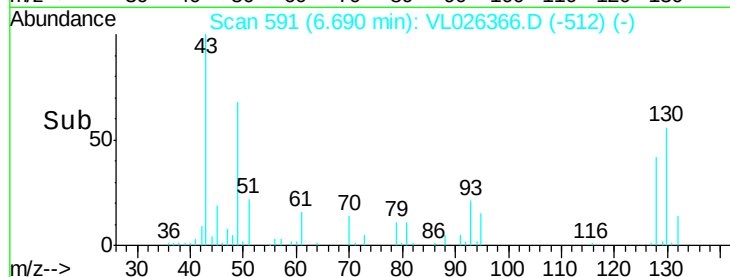


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#31

cis-1,2-Dichloroethene

Concen: 1.73 ppbv

RT: 6.53 min Scan# 565

Delta R.T. -0.02 min

Lab File: VL026366.D

Acq: 11 Nov 2015 16:01

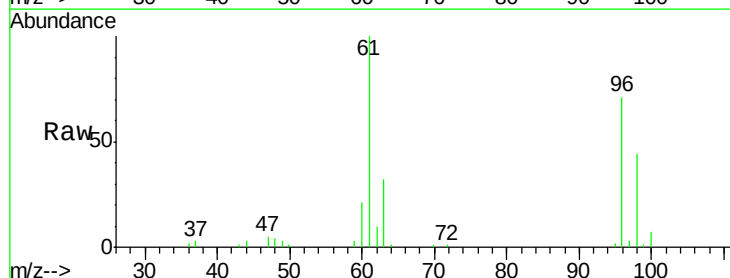
Tgt Ion: 61 Resp: 107112

Ion Ratio Lower Upper

61 100

96 70.8 56.2 84.4

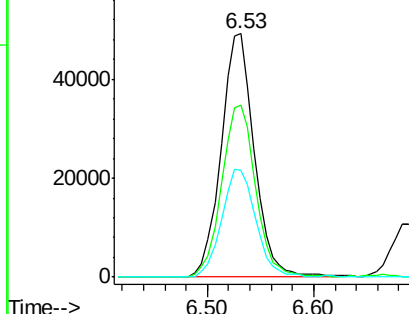
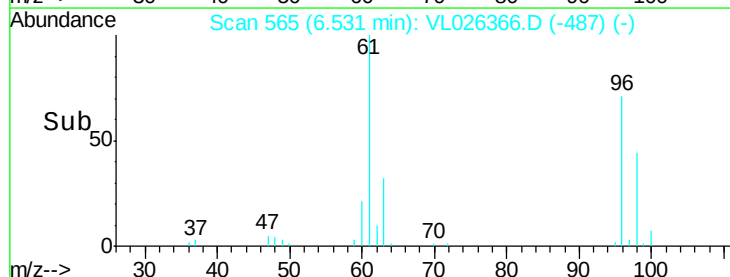
98 44.1 35.4 53.2

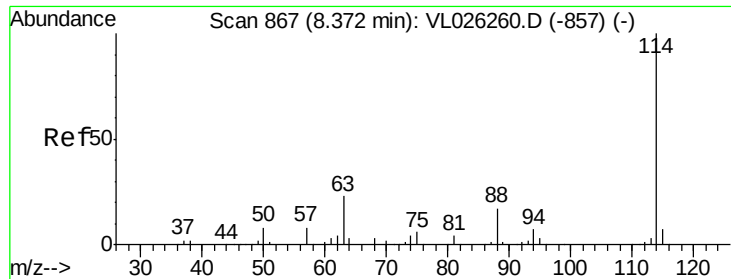


Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0





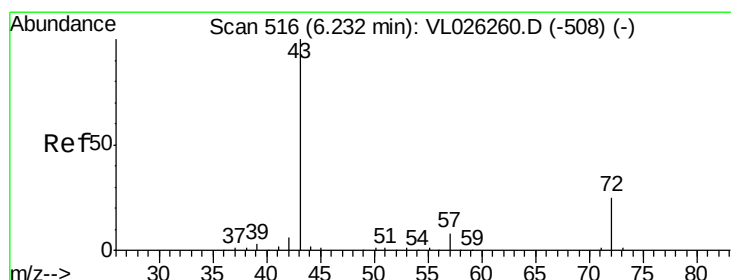
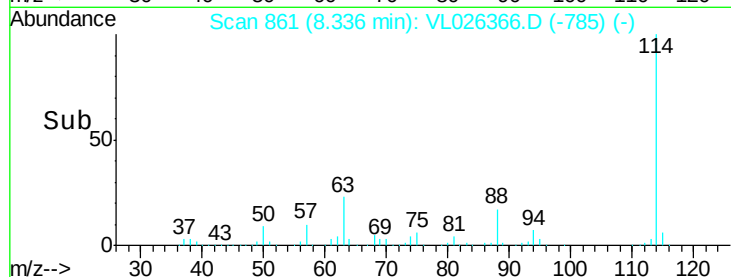
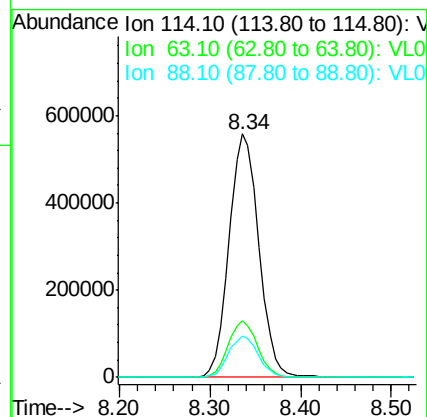
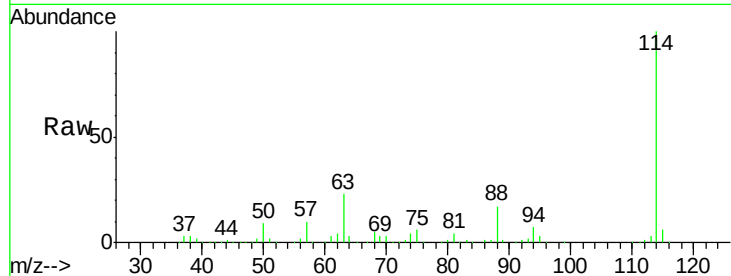
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.34 min Scan# 861
 Delta R.T. -0.04 min
 Lab File: VL026366.D
 Acq: 11 Nov 2015 16:01

Instrument :
 MSVOA_L
 ClientSampleId :
 DIN46INFLUENT110615DUP

Tot Ion:114 Resp: 1272010
 Ion Ratio Lower Upper
 114 100
 63 23.1 18.6 28.0
 88 16.8 13.4 20.2

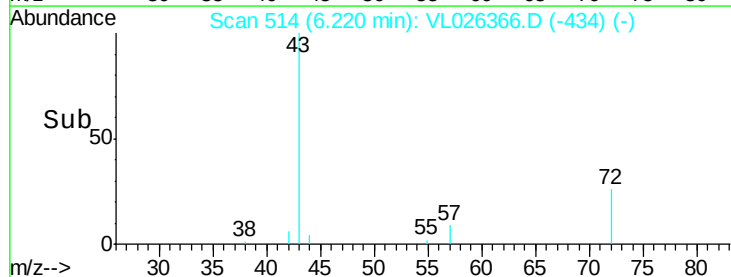
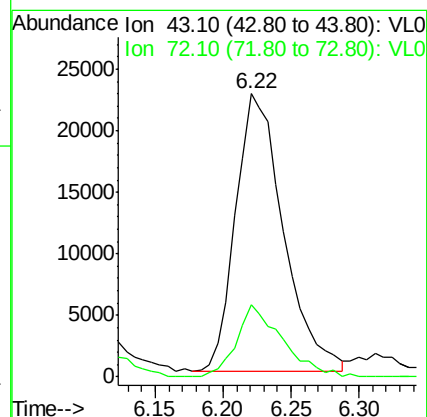
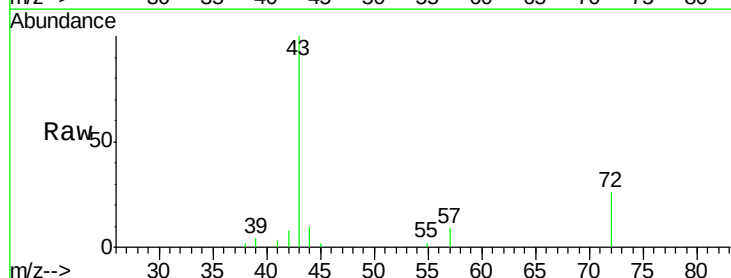
Manual Integrations
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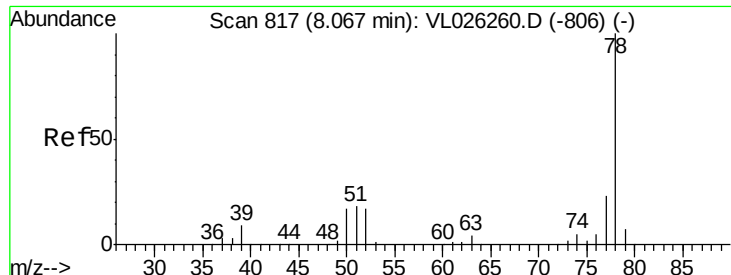
mohammad
 11/12/2015 6:51:55 PM



#34
 2-Butanone
 Concen: 0.72 ppbv
 RT: 6.22 min Scan# 514
 Delta R.T. -0.01 min
 Lab File: VL026366.D
 Acq: 11 Nov 2015 16:01

Tgt Ion: 43 Resp: 55483
 Ion Ratio Lower Upper
 43 100
 72 25.0 19.9 29.9





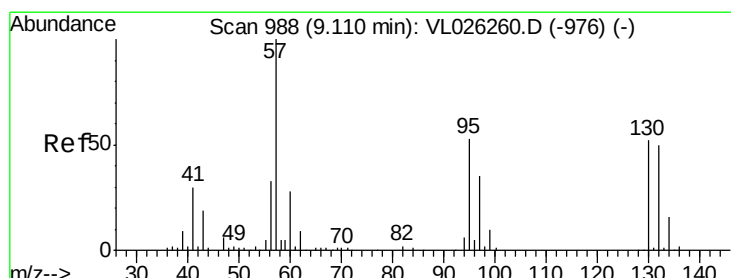
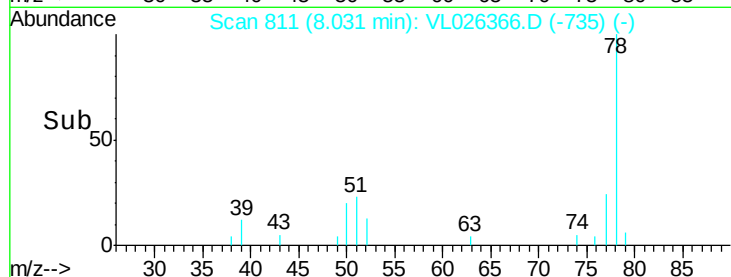
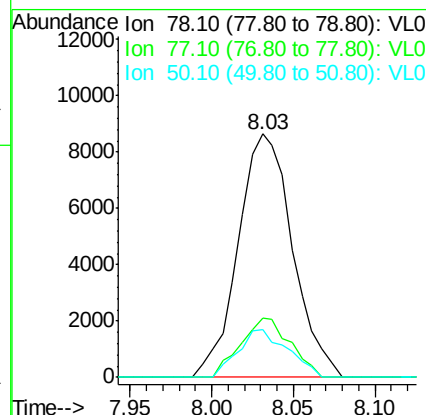
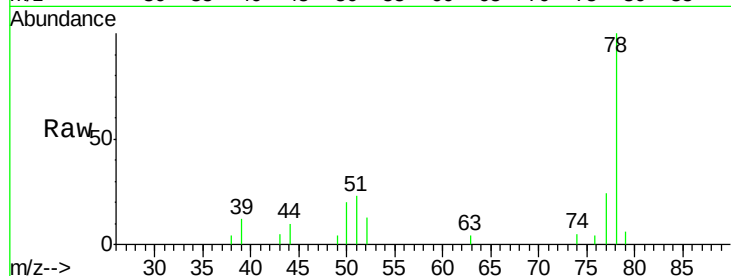
#36
Benzene
Concen: 0.15 ppbv
RT: 8.03 min Scan# 811
Delta R.T. -0.04 min
Lab File: VL026366.D
Acq: 11 Nov 2015 16:01

Instrument :
MSVOA_L
ClientSampleId :
DIN46INFLUENT110615DUP

Tot Ion:	78	Resp:	20047
Ion	Ratio	Lower	Upper
78	100		
77	24.1	18.0	27.0
50	19.8	13.3	19.9

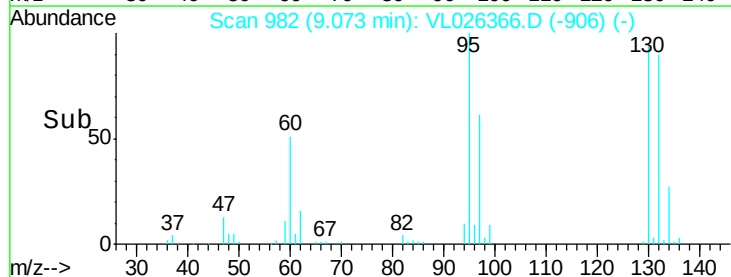
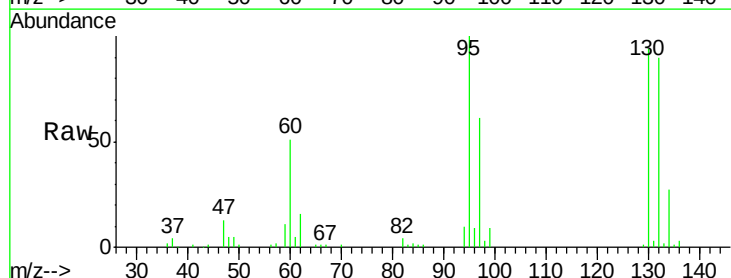
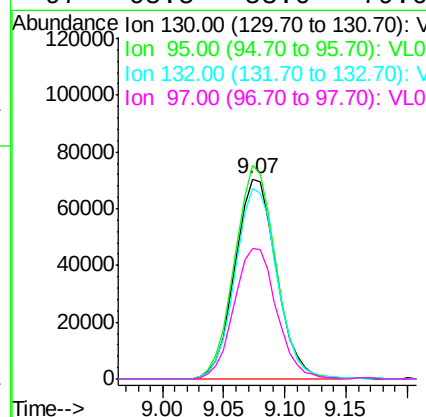
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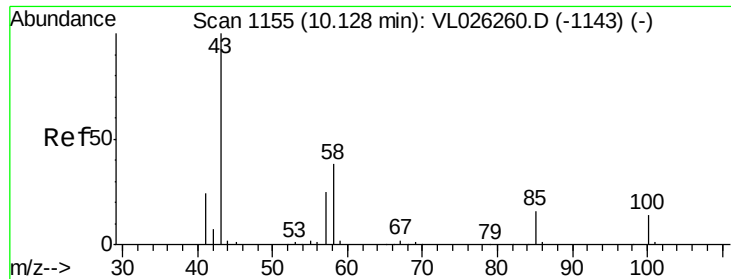
mohammad
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#38
Trichloroethene
Concen: 2.57 ppbv
RT: 9.07 min Scan# 982
Delta R.T. -0.04 min
Lab File: VL026366.D
Acq: 11 Nov 2015 16:01

Tgt Ion:	130	Resp:	166417
Ion	Ratio	Lower	Upper
130	100		
95	106.8	80.8	121.2
132	95.7	76.2	114.2
97	65.5	53.0	79.6





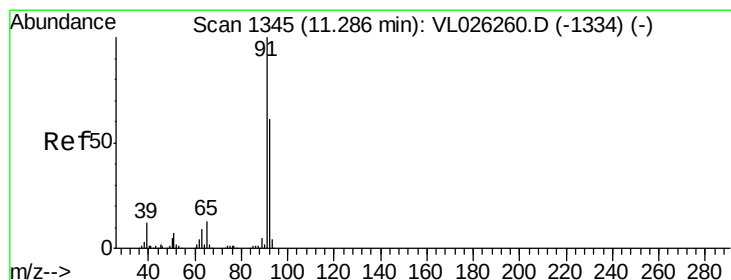
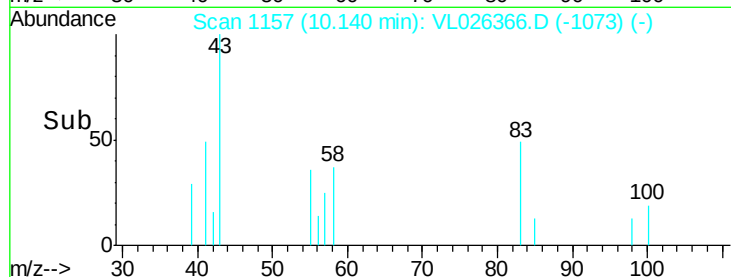
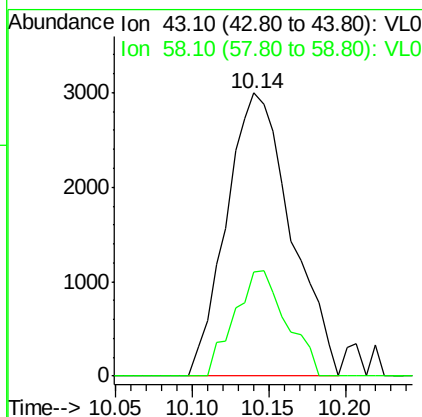
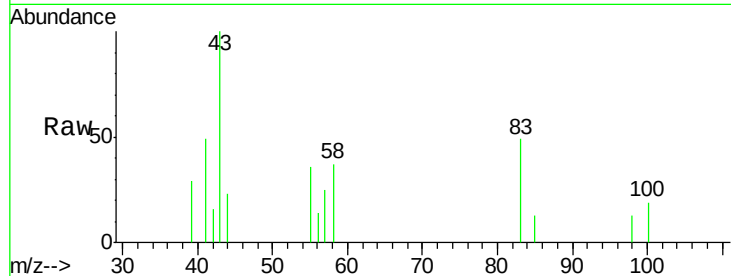
#50
4-Methyl-2-Pentanone
Concen: 0.09 ppbv
RT: 10.14 min Scan# 1157
Delta R.T. 0.01 min
Lab File: VL026366.D
Acq: 11 Nov 2015 16:01

Instrument :
MSVOA_L
ClientSampleId :
DIN46INFLUENT110615DUP

Tot Ion: 43 Resp: 8782
Ion Ratio Lower Upper
43 100
58 29.9 30.5 45.7#

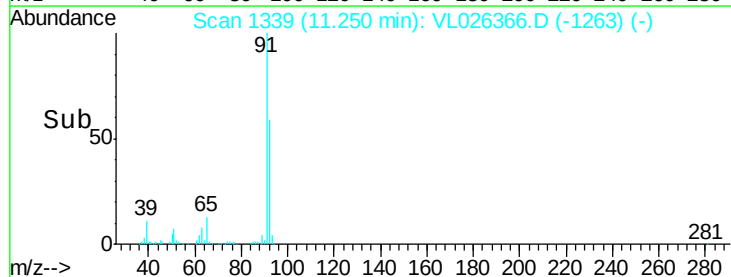
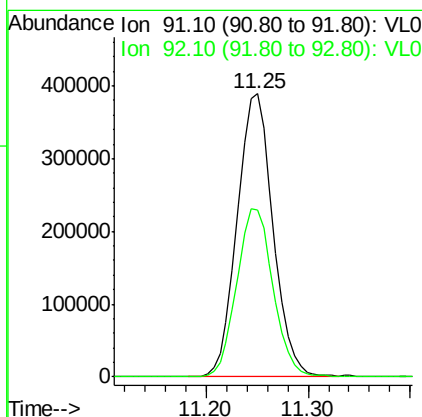
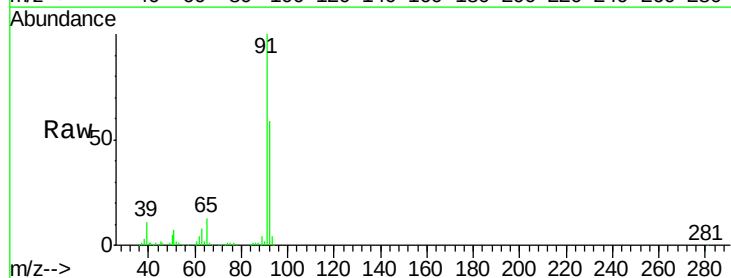
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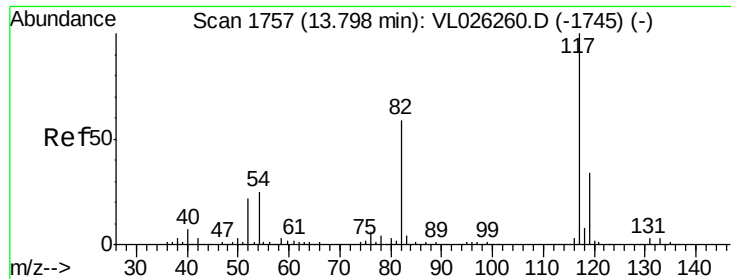
mohammad
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#53
Toluene
Concen: 5.44 ppbv
RT: 11.25 min Scan# 1339
Delta R.T. -0.04 min
Lab File: VL026366.D
Acq: 11 Nov 2015 16:01

Tgt Ion: 91 Resp: 950756
Ion Ratio Lower Upper
91 100
92 60.5 48.6 73.0





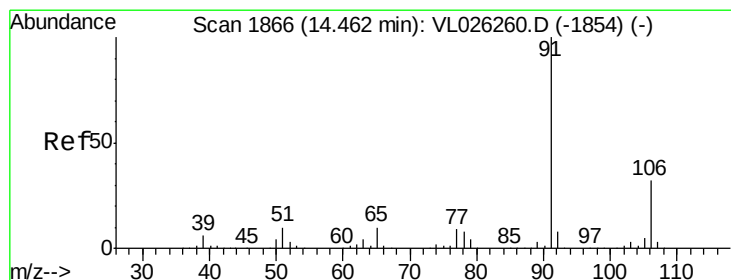
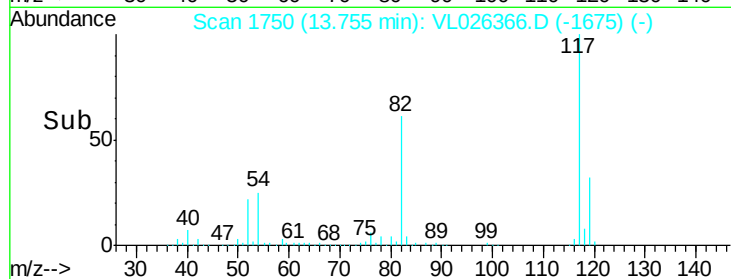
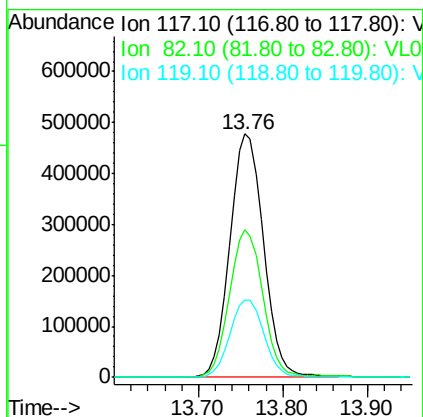
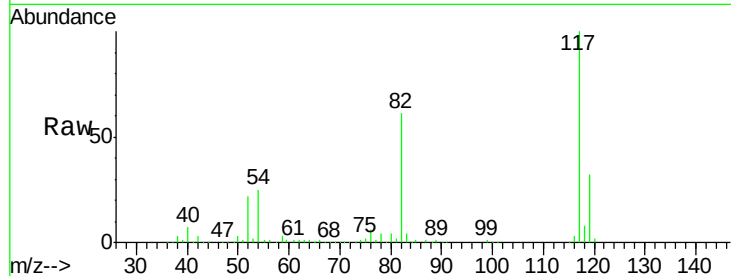
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.76 min Scan# 1750
Delta R.T. -0.04 min
Lab File: VL026366.D
Acq: 11 Nov 2015 16:01

Instrument :
MSVOA_L
ClientSampleId :
DIN46INFLUENT110615DUP

Tot Ion:117 Resp: 1296705
Ion Ratio Lower Upper
117 100
82 61.2 48.2 72.4
119 32.3 46.2 69.2#

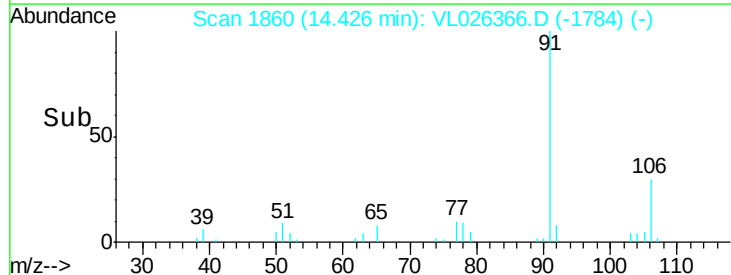
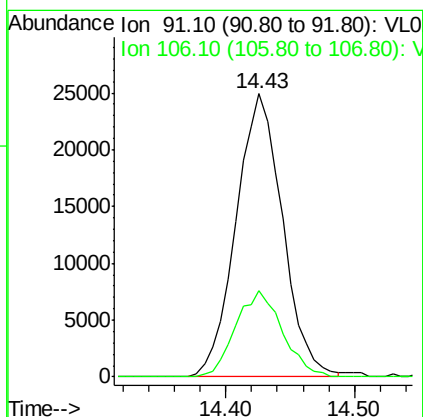
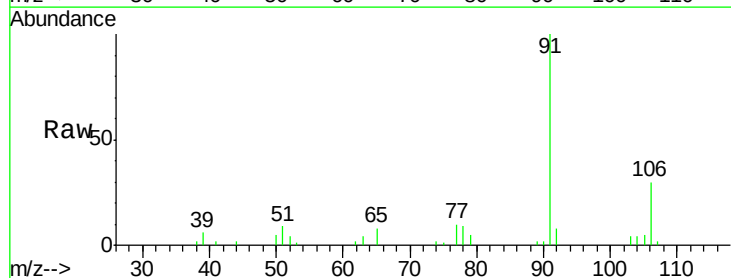
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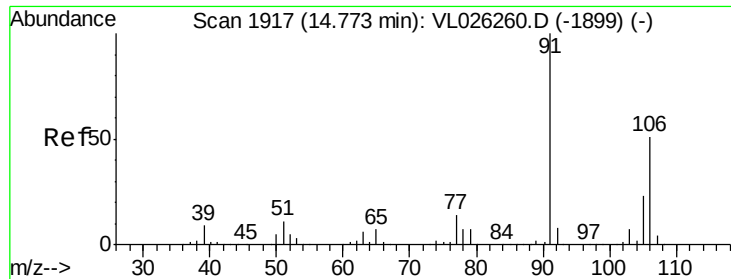
mohammad
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#58
Ethyl Benzene
Concen: 0.29 ppbv
RT: 14.43 min Scan# 1860
Delta R.T. -0.04 min
Lab File: VL026366.D
Acq: 11 Nov 2015 16:01

Tgt Ion: 91 Resp: 62456
Ion Ratio Lower Upper
91 100
106 30.3 25.7 38.5





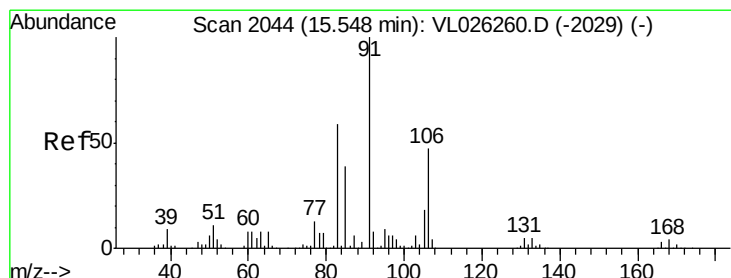
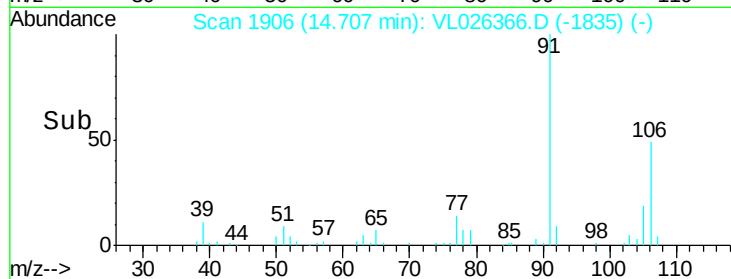
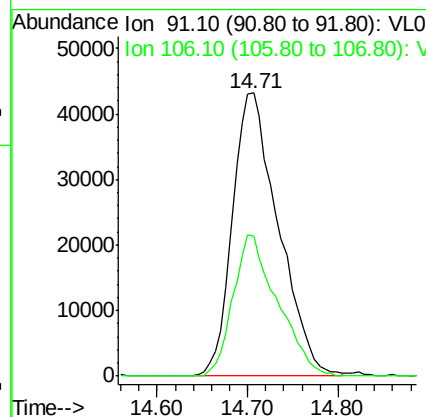
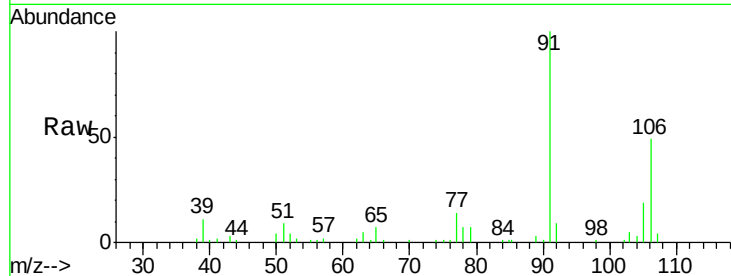
#59
m/p-Xylene
Concen: 0.90 ppbv
RT: 14.71 min Scan# 1906
Delta R.T. -0.07 min
Lab File: VL026366.D
Acq: 11 Nov 2015 16:01

Instrument :
MSVOA_L
ClientSampleId :
DIN46INFLUENT110615DUP

Tot Ion: 91 Resp: 151758
Ion Ratio Lower Upper
91 100
106 48.1 0.0 0.0#

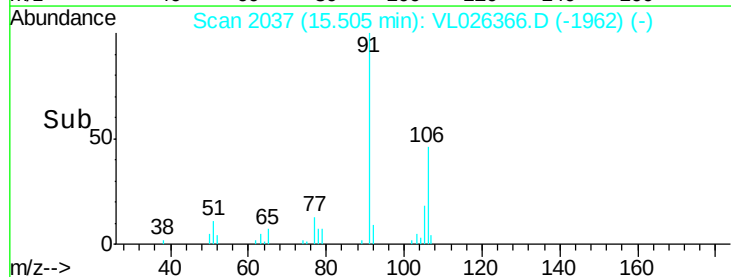
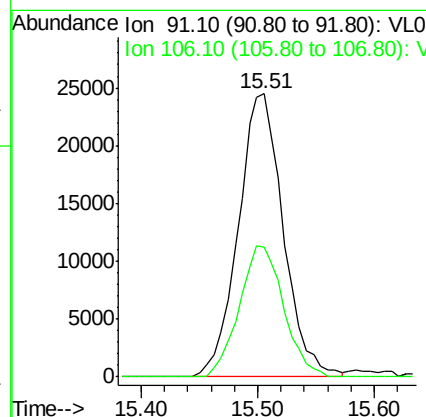
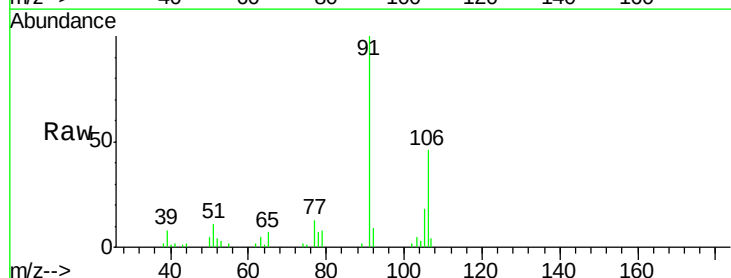
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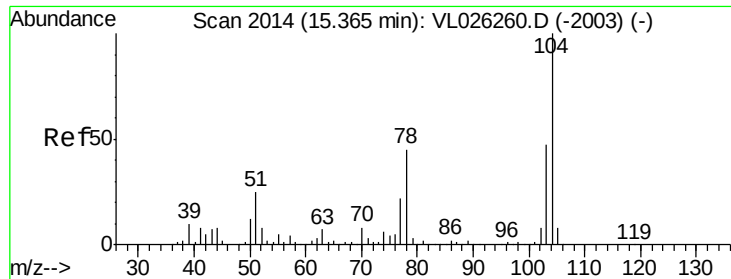
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#60
o-Xylene
Concen: 0.37 ppbv
RT: 15.51 min Scan# 2037
Delta R.T. -0.04 min
Lab File: VL026366.D
Acq: 11 Nov 2015 16:01

Tgt Ion: 91 Resp: 65712
Ion Ratio Lower Upper
91 100
106 45.5 23.6 70.8





#61

Stvrene

Concen: 0.29 ppbv

RT: 15.32 min Scan# 2007

Delta R.T. -0.04 min

Lab File: VL026366.D

Acq: 11 Nov 2015 16:01

Instrument :

MSVOA_L

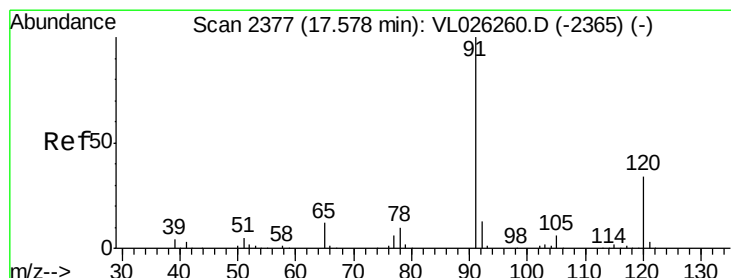
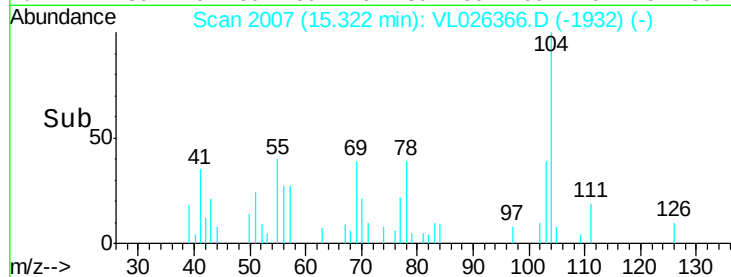
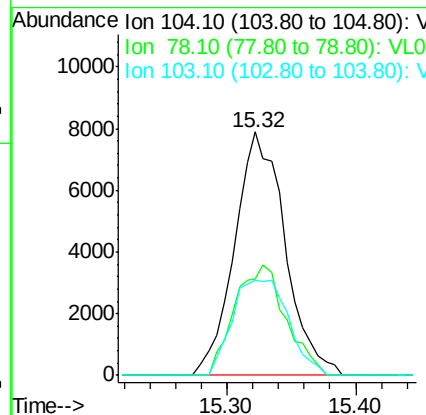
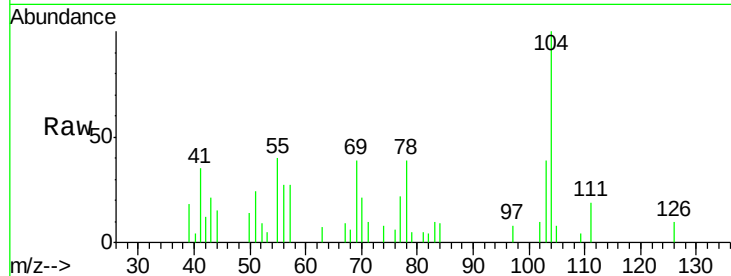
ClientSampleId :

DIN46INFLUENT110615DUP

Tot Ion:	104	Resp:	21469
Ion Ratio	Lower	Upper	
104	100		
78	45.8	35.5	53.3
103	43.9	37.0	55.6

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#64

n-propylbenzene

Concen: 0.15 ppbv

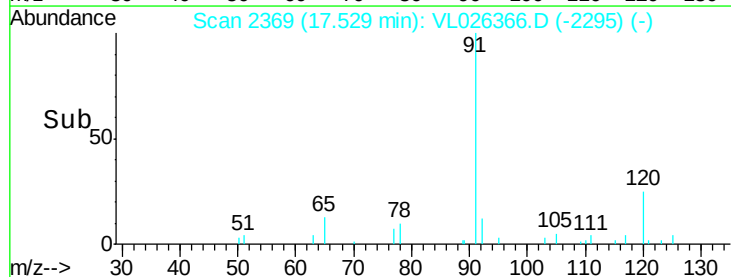
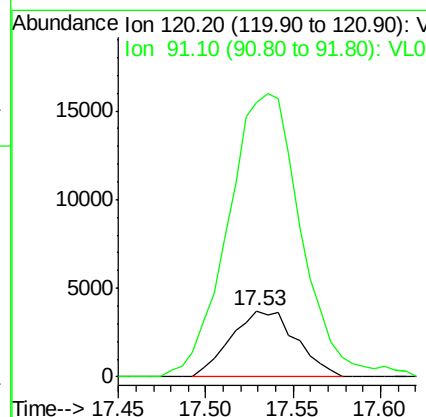
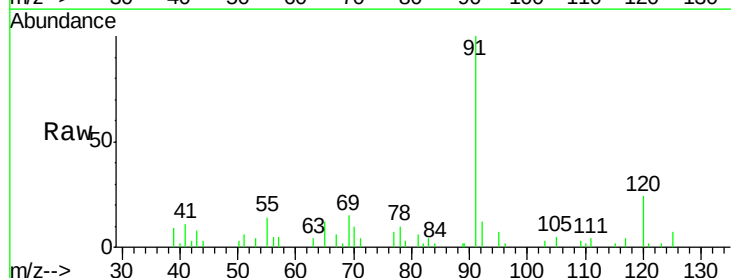
RT: 17.53 min Scan# 2369

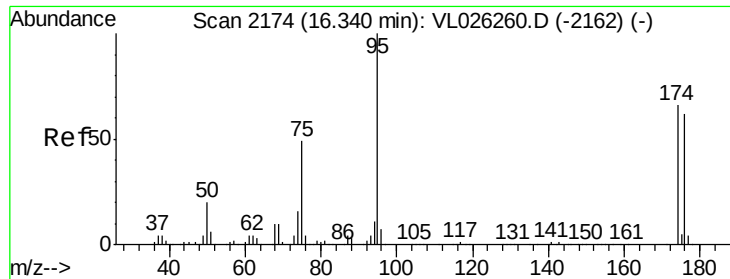
Delta R.T. -0.05 min

Lab File: VL026366.D

Acq: 11 Nov 2015 16:01

Tgt Ion:	120	Resp:	9701
Ion Ratio	Lower	Upper	
120	100		
91	483.7	340.8	511.2





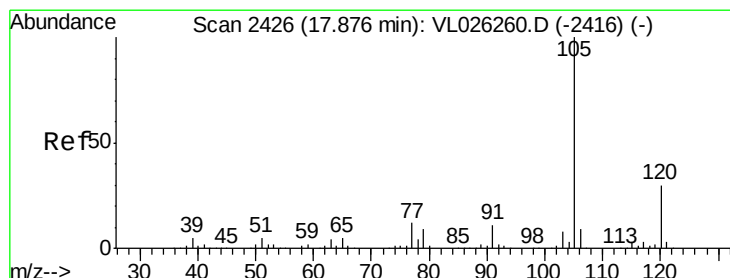
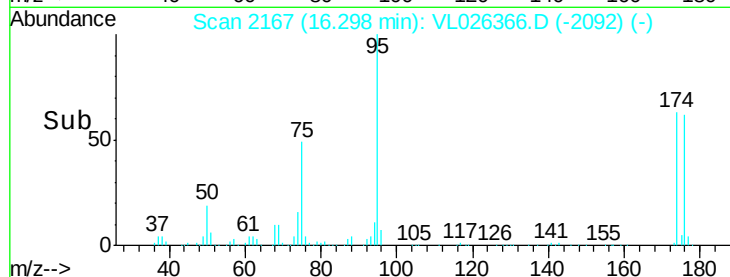
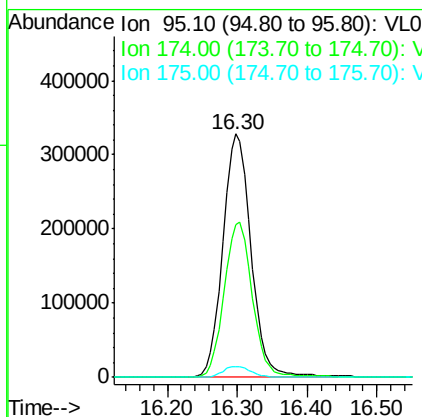
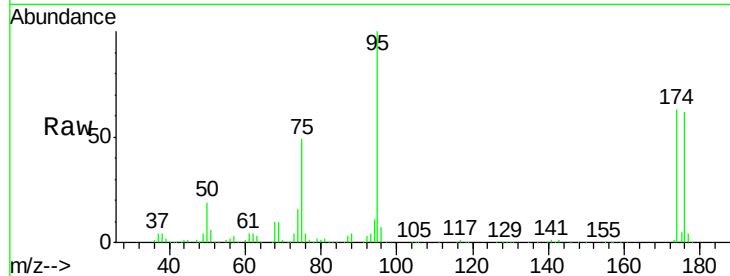
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.38 ppbv
 RT: 16.30 min Scan# 2167
 Delta R.T. -0.04 min
 Lab File: VL026366.D
 Acq: 11 Nov 2015 16:01

Instrument :
 MSVOA_L
 ClientSampleId :
 DIN46INFLUENT110615DUP

Tot Ion	Ratio	Lower	Upper
95	100		
174	64.1	52.9	79.3
175	4.6	3.8	5.8

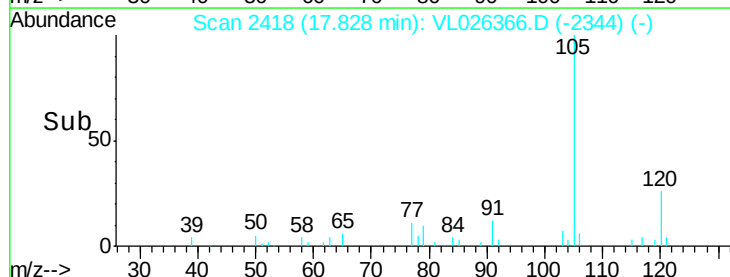
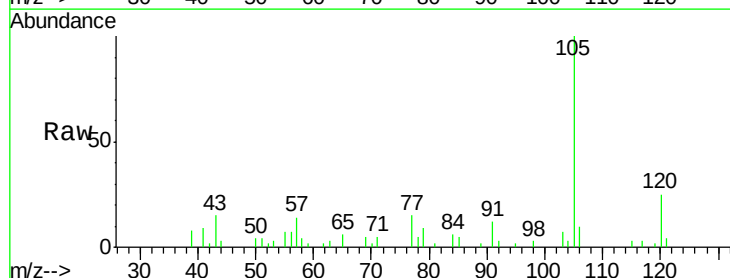
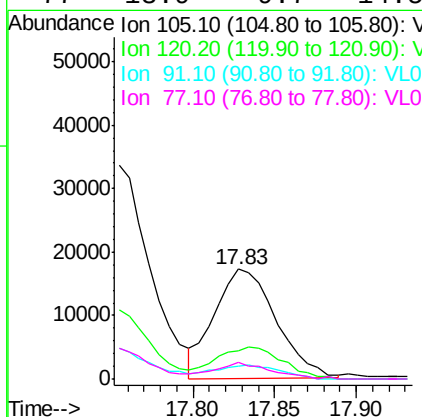
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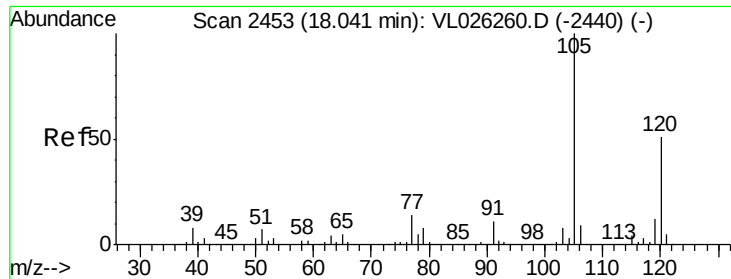
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#72
 4-Ethyltoluene
 Concen: 0.23 ppbv
 RT: 17.83 min Scan# 2418
 Delta R.T. -0.05 min
 Lab File: VL026366.D
 Acq: 11 Nov 2015 16:01

Tgt Ion	Ratio	Lower	Upper
105	100		
120	31.1	25.1	37.7
91	13.6	9.1	13.7
77	13.9	9.7	14.5





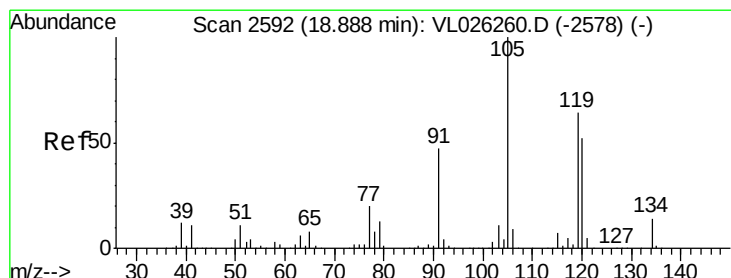
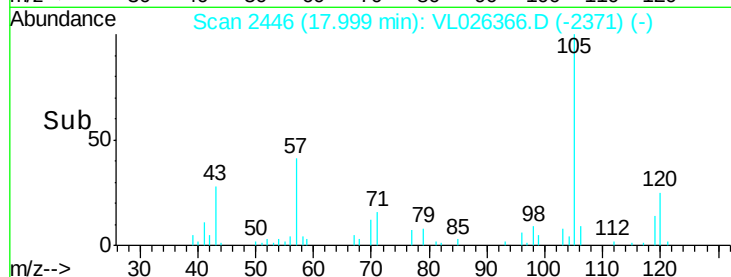
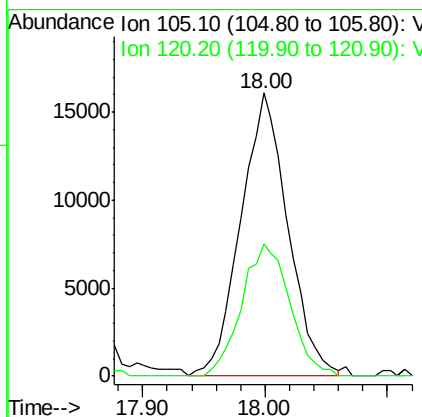
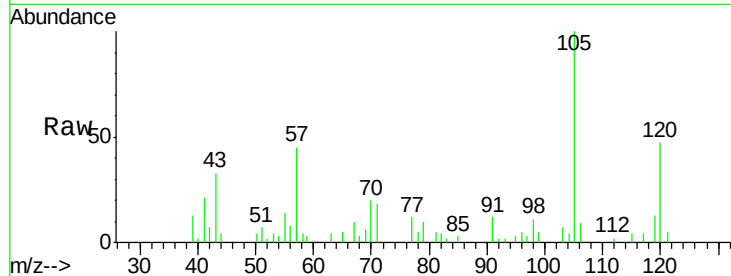
#73
 1,3,5-Trimethylbenzene
 Concen: 0.23 ppbv
 RT: 18.00 min Scan# 2446
 Delta R.T. -0.04 min
 Lab File: VL026366.D
 Acq: 11 Nov 2015 16:01

Instrument :
 MSVOA_L
 ClientSampleId :
 DIN46INFLUENT110615DUP

Tot Ion:105 Resp: 43066
 Ion Ratio Lower Upper
 105 100
 120 46.7 40.6 61.0

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#74
 1,2,4-Trimethylbenzene
 Concen: 0.67 ppbv
 RT: 18.85 min Scan# 2585
 Delta R.T. -0.04 min
 Lab File: VL026366.D
 Acq: 11 Nov 2015 16:01

Tgt Ion:105 Resp: 130679
 Ion Ratio Lower Upper
 105 100
 120 46.0 41.2 61.8
 91 11.0 37.8 56.8#
 77 12.9 16.1 24.1#

