

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL111115\
 Data File : VL026365.D
 Acq On : 11 Nov 2015 15:20
 Operator : SY/AP
 Sample : G4364-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 DIN46INFLUENT110615

Manual Integrations
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Quant Time: Nov 12 17:49:23 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	544995	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	8.34	114	1502528	10.00	ppbv	-0.04
55) Chlorobenzene-d5	13.76	117	1266351	10.00	ppbv	-0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.30	95	1018755	10.60	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.65	85	51435	0.44	ppbv	96
3) Chlorodifluoromethane	3.57	51	154091m	2.24	ppbv	
4) Chloromethane	3.76	50	21413	0.55	ppbv	97
5) Vinyl Chloride	3.89	62	2320	0.05	ppbv #	87
10) Heptane	9.37	43	17983	0.16	ppbv	94
11) Trichlorofluoromethane	4.70	101	23987	0.22	ppbv	98
13) Ethanol	4.35	45	35388	7.16	ppbv	95
19) Isopropyl Alcohol	4.79	45	22661	0.73	ppbv #	24
20) Methylene Chloride	5.16	84	33503	1.07	ppbv	92
25) Ethyl Acetate	6.68	43	202965	1.35	ppbv #	88
31) cis-1,2-Dichloroethene	6.53	61	110540	1.63	ppbv	99
34) 2-Butanone	6.22	43	58649	0.65	ppbv	99
36) Benzene	8.03	78	21730	0.14	ppbv	98
38) Trichloroethene	9.07	130	174855	2.29	ppbv	98
50) 4-Methyl-2-Pentanone	10.13	43	8717	0.07	ppbv	93
53) Toluene	11.24	91	985518	4.77	ppbv	99
58) Ethyl Benzene	14.43	91	64293	0.31	ppbv	95
59) m/p-Xylene	14.70	91	158818	0.96	ppbv #	100
60) o-Xylene	15.50	91	68742	0.40	ppbv	99
61) Styrene	15.33	104	22280	0.30	ppbv	94
64) n-propylbenzene	17.53	120	10048	0.16	ppbv	71
72) 4-Ethyltoluene	17.83	105	49974	0.26	ppbv	97
73) 1,3,5-Trimethylbenzene	18.00	105	46381	0.25	ppbv	93
74) 1,2,4-Trimethylbenzene	18.85	105	133860	0.70	ppbv #	72

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

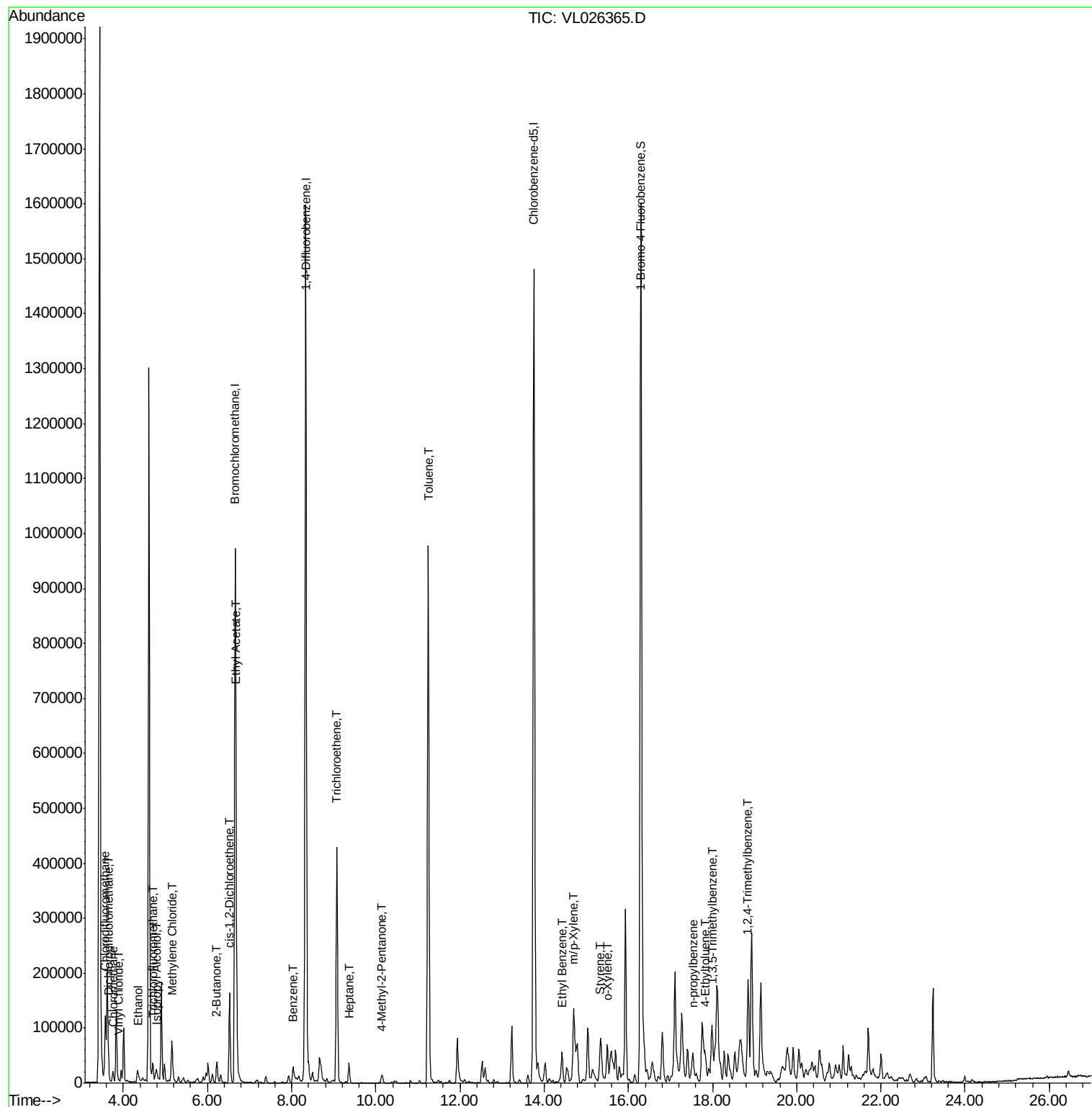
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL111115\
Data File : VL026365.D
Acq On : 11 Nov 2015 15:20
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Misc : 400mL/MSVOA L
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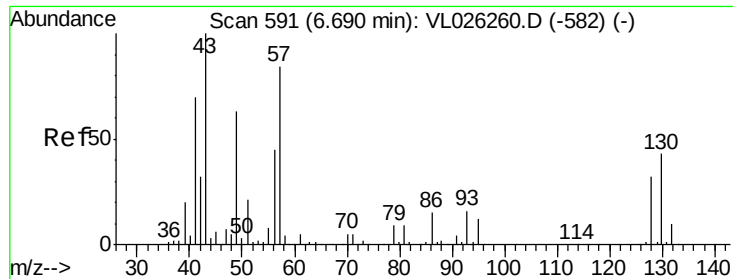
Instrument :
MSVOA_L
ClientSampleId :
DIN46INFLUENT110615

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Quant Time: Nov 12 17:49:23 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: VL026365.D

Acq: 11 Nov 2015 15:20

Instrument :

MSVOA_L

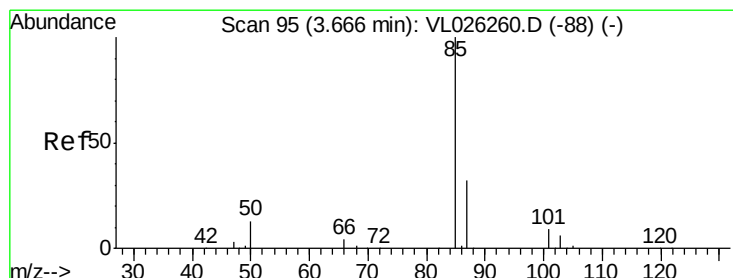
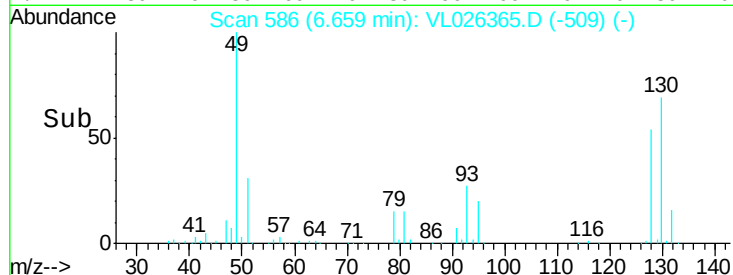
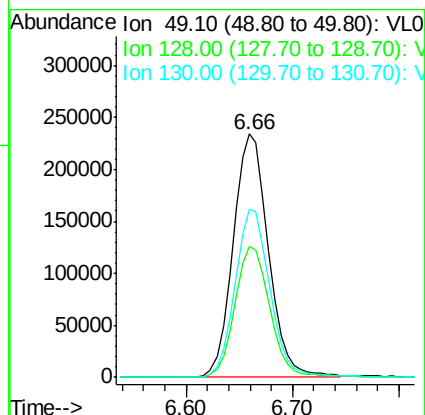
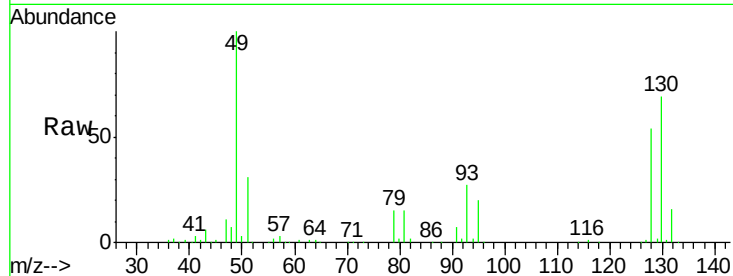
ClientSampleId :

DIN46INFLUENT110615

Tot Ion: 49 Resp: 544995
 Ion Ratio Lower Upper
 49 100
 128 54.2 26.7 80.1
 130 69.1 34.4 103.2

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#2

Dichlorodifluoromethane

Concen: 0.44 ppbv

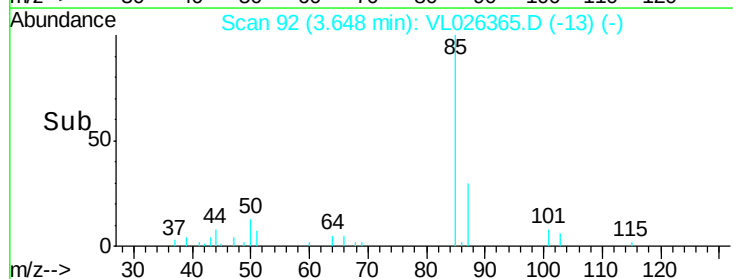
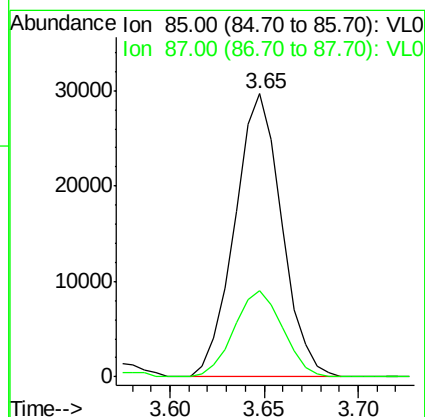
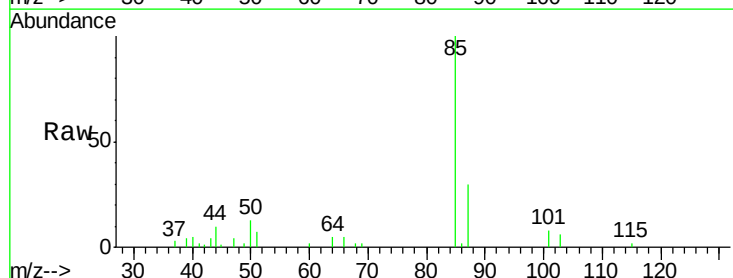
RT: 3.65 min Scan# 92

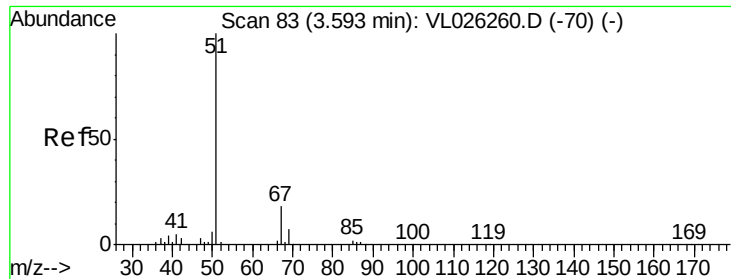
Delta R.T. -0.02 min

Lab File: VL026365.D

Acq: 11 Nov 2015 15:20

Tgt Ion: 85 Resp: 51435
 Ion Ratio Lower Upper
 85 100
 87 30.3 25.9 38.9





#3

Chlorodifluoromethane

Concen: 2.24 ppbv m

RT: 3.57 min Scan# 80

Delta R.T. -0.02 min

Lab File: VL026365.D

Acq: 11 Nov 2015 15:20

Instrument :

MSVOA_L

ClientSampleId :

DIN46INFLUENT110615

Tot Ion: 51 Resp: 154091

Ion Ratio Lower Upper

51 100

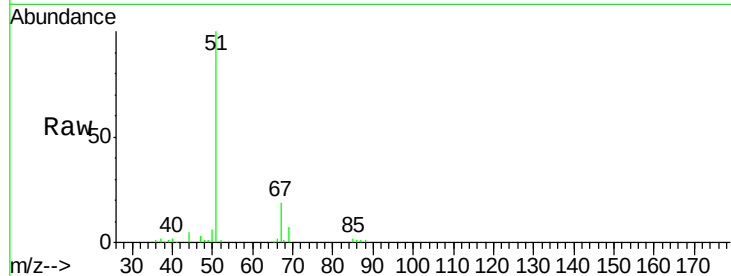
67 17.0 14.5 21.7

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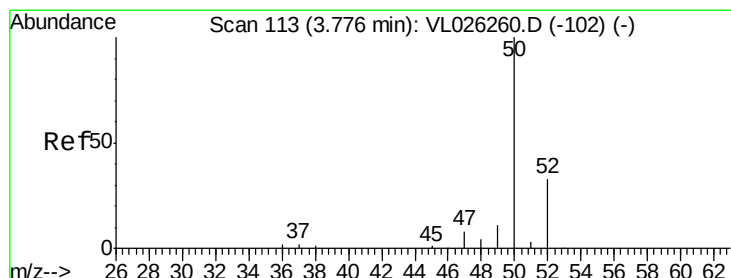
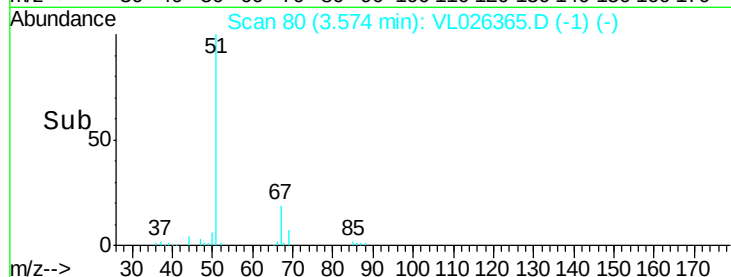
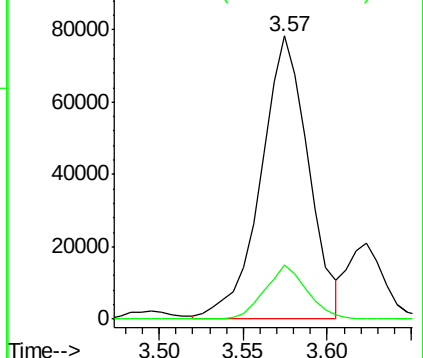
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.55 ppbv

RT: 3.76 min Scan# 110

Delta R.T. -0.02 min

Lab File: VL026365.D

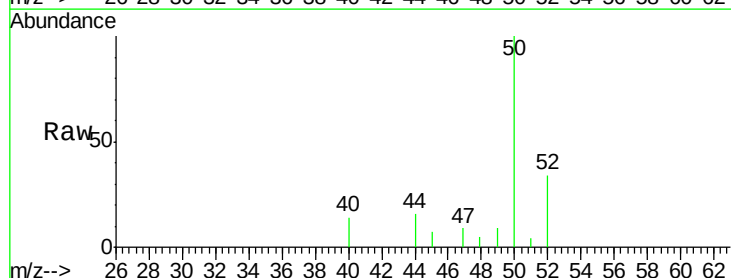
Acq: 11 Nov 2015 15:20

Tgt Ion: 50 Resp: 21413

Ion Ratio Lower Upper

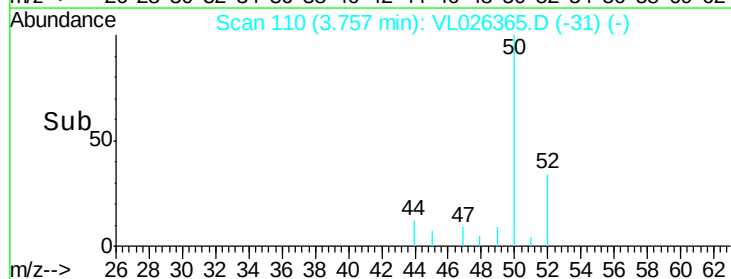
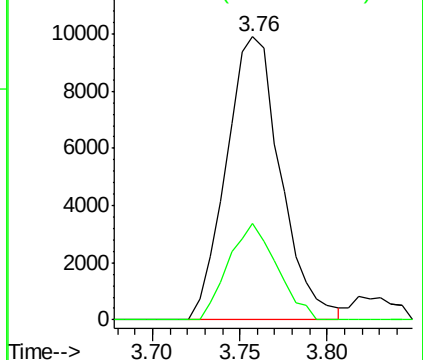
50 100

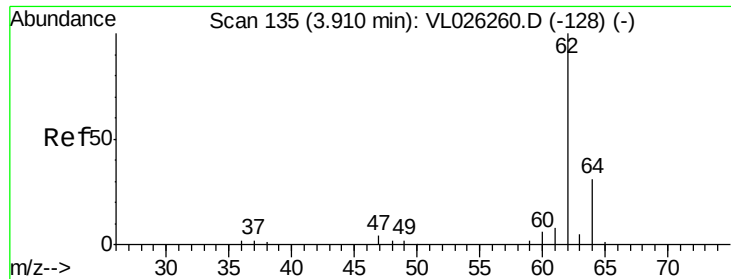
52 34.0 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.05 ppbv

RT: 3.89 min Scan# 132

Delta R.T. -0.02 min

Lab File: VL026365.D

Acq: 11 Nov 2015 15:20

Instrument :

MSVOA_L

ClientSampleId :

DIN46INFLUENT110615

Tot Ion: 62 Resp: 2320

Ion Ratio Lower Upper

62 100

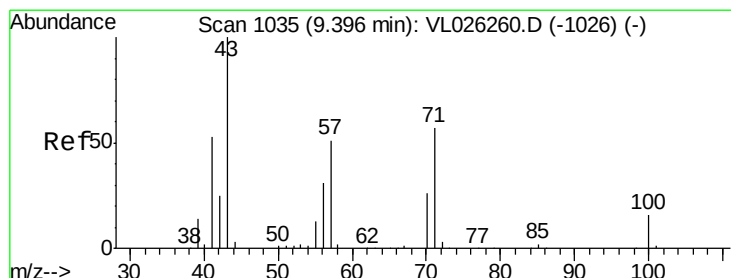
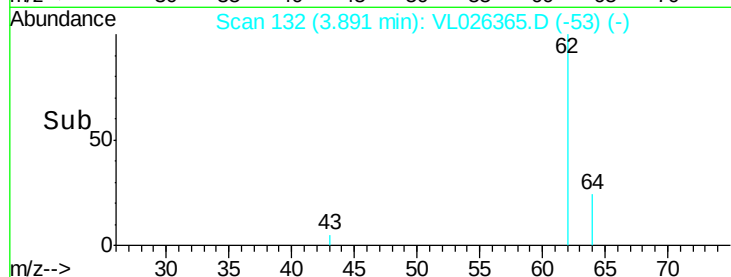
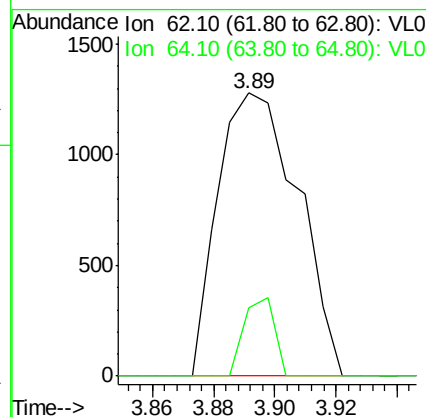
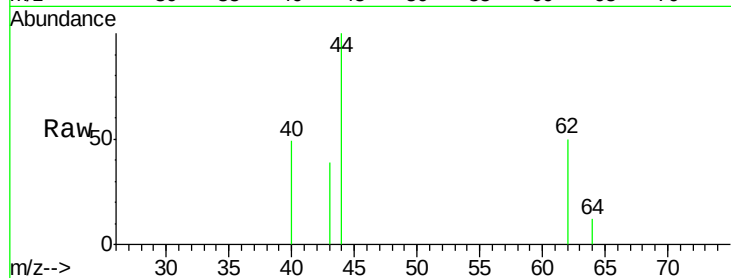
64 24.1 24.9 37.3#

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#10

Heptane

Concen: 0.16 ppbv

RT: 9.37 min Scan# 1030

Delta R.T. -0.03 min

Lab File: VL026365.D

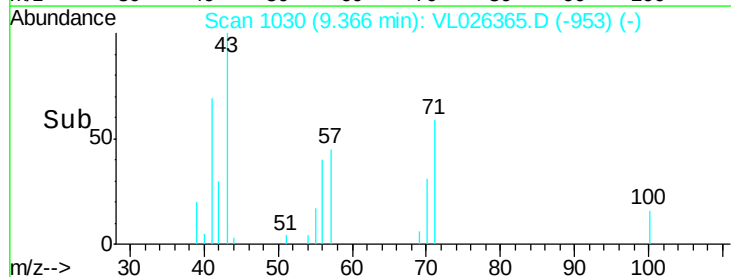
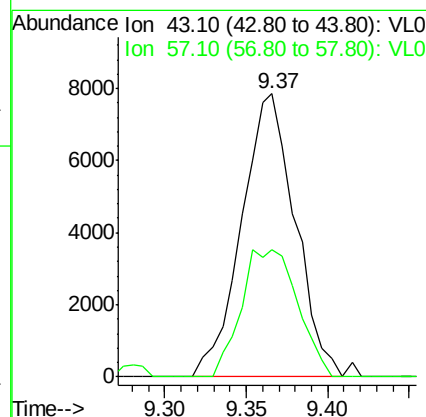
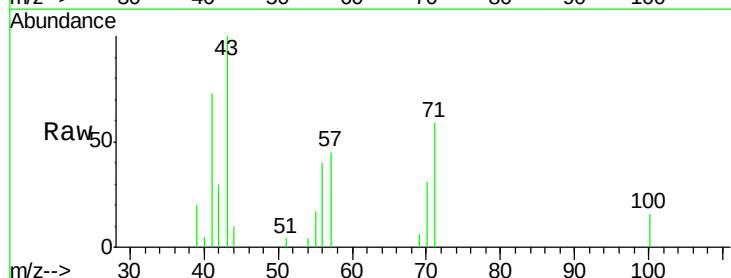
Acq: 11 Nov 2015 15:20

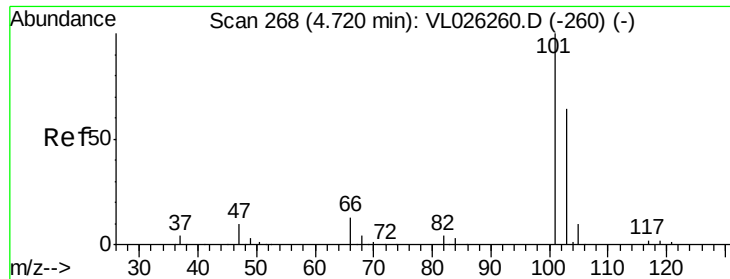
Tgt Ion: 43 Resp: 17983

Ion Ratio Lower Upper

43 100

57 47.1 41.1 61.7





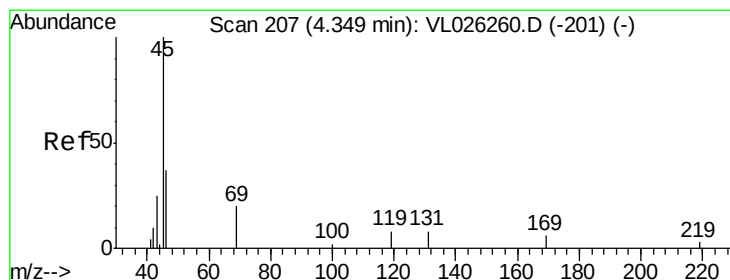
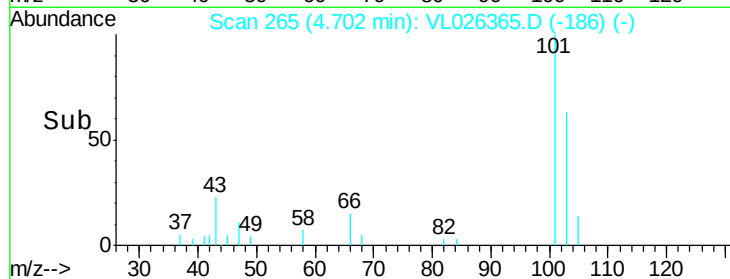
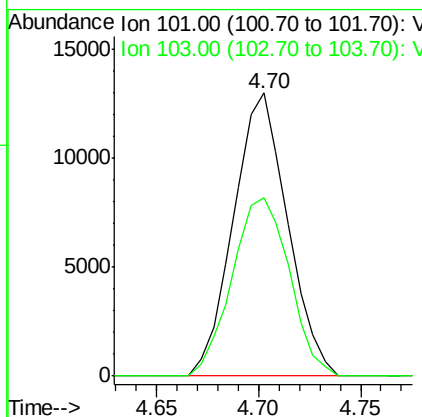
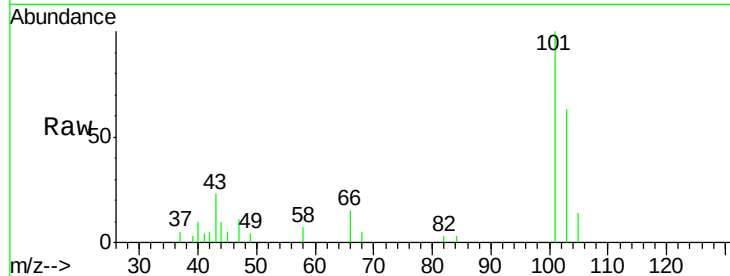
#11
 Trichlorofluoromethane
 Concen: 0.22 ppbv
 RT: 4.70 min Scan# 265
 Delta R.T. -0.02 min
 Lab File: VL026365.D
 Acq: 11 Nov 2015 15:20

Instrument :
 MSVOA_L
 ClientSampleId :
 DIN46INFLUENT110615

Tot Ion:101 Resp: 23987
 Ion Ratio Lower Upper
 101 100
 103 63.0 51.4 77.0

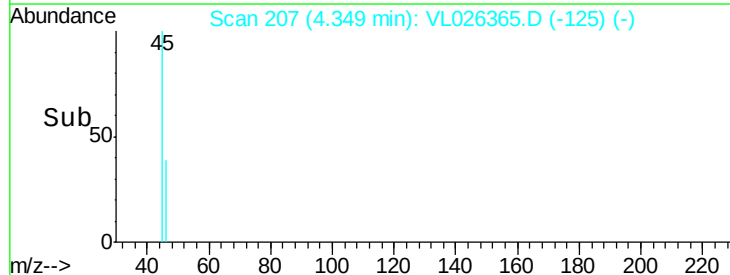
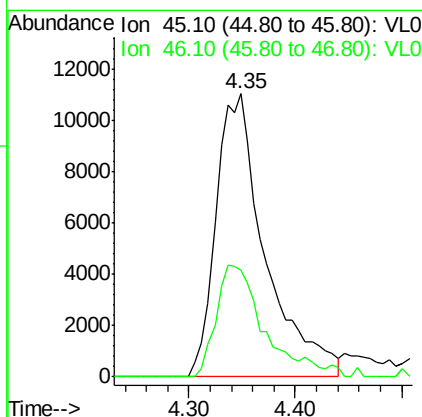
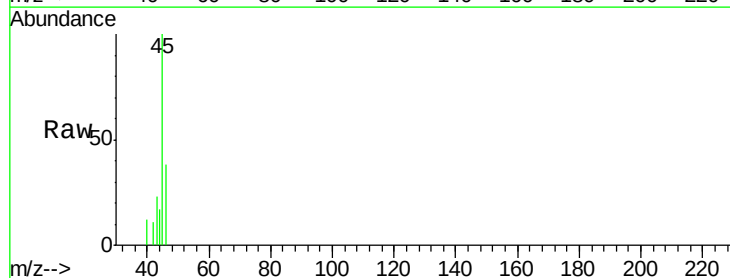
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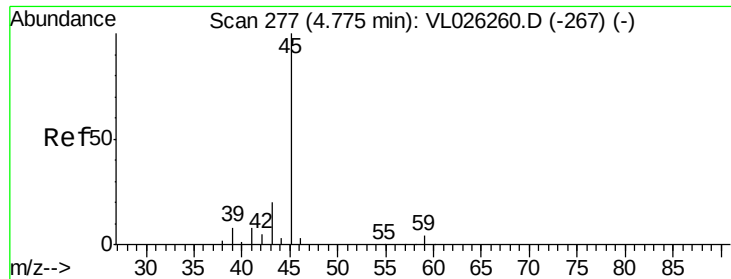
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#13
 Ethanol
 Concen: 7.16 ppbv
 RT: 4.35 min Scan# 207
 Delta R.T. 0.00 min
 Lab File: VL026365.D
 Acq: 11 Nov 2015 15:20

Tgt Ion: 45 Resp: 35388
 Ion Ratio Lower Upper
 45 100
 46 39.1 17.0 68.0





#19

Isopropyl Alcohol

Concen: 0.73 ppbv

RT: 4.79 min Scan# 279

Delta R.T. 0.01 min

Lab File: VL026365.D

Acq: 11 Nov 2015 15:20

Instrument :

MSVOA_L

ClientSampleId :

DIN46INFLUENT110615

Tot Ion: 45 Resp: 22661

Ion Ratio Lower Upper

45 100

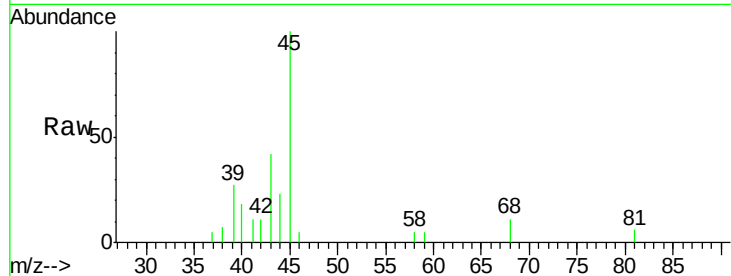
58 0.0 43.8 65.8#

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.79

10000

8000

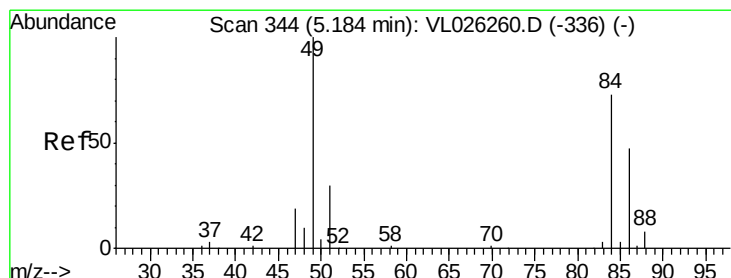
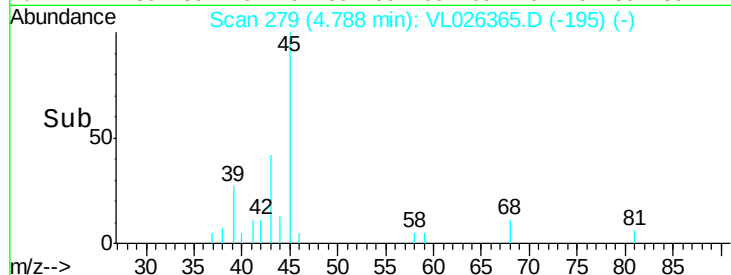
6000

4000

2000

0

Time-->



#20

Methylene Chloride

Concen: 1.07 ppbv

RT: 5.16 min Scan# 340

Delta R.T. -0.02 min

Lab File: VL026365.D

Acq: 11 Nov 2015 15:20

Tgt Ion: 84 Resp: 33503

Ion Ratio Lower Upper

84 100

49 145.1 109.0 163.4

51 45.6 32.8 49.2

86 70.6 50.8 76.2

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

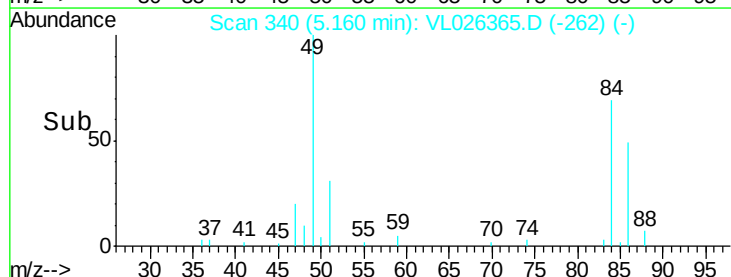
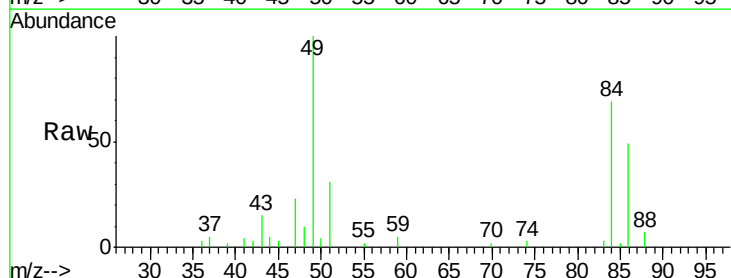
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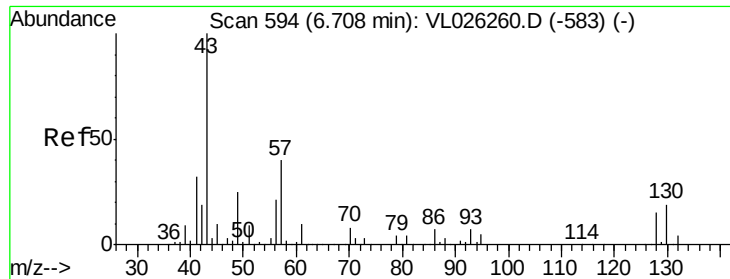
20000

10000

0

Time-->





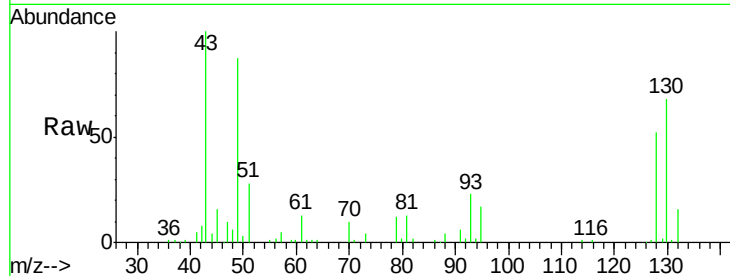
#25
Ethyl Acetate
Concen: 1.35 ppbv
RT: 6.68 min Scan# 590
Delta R.T. -0.02 min
Lab File: VL026365.D
Acq: 11 Nov 2015 15:20

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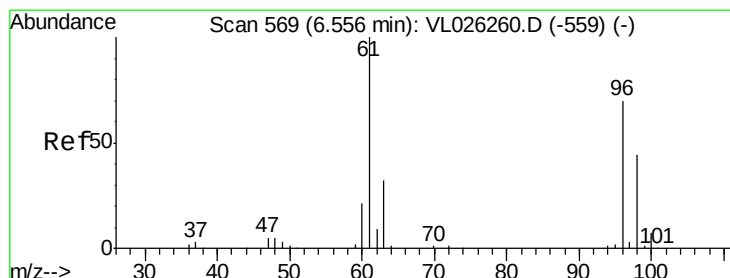
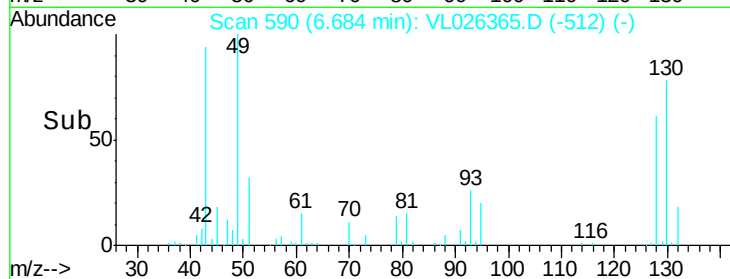
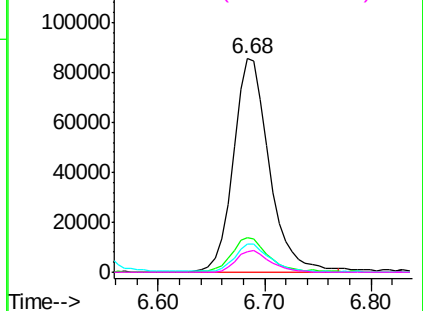
Tot Ion	Ratio	Lower	Upper
43	100		
45	16.9	7.6	11.4#
61	13.0	7.4	11.2#
70	9.6	6.7	10.1

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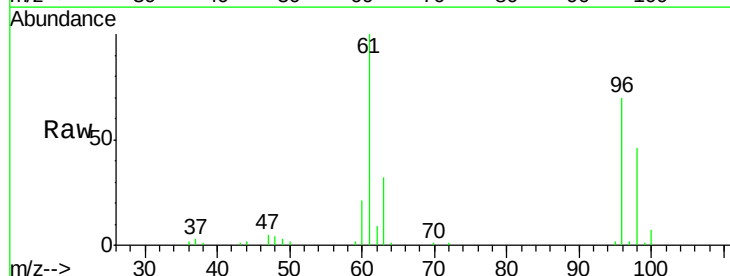


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

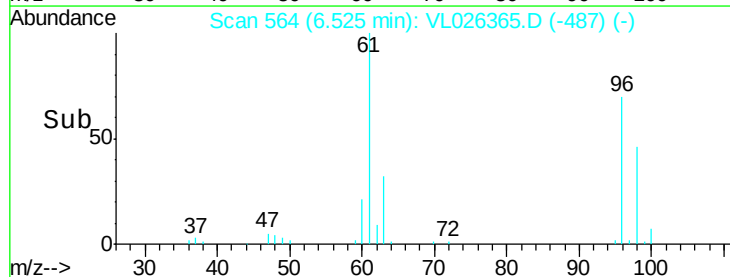
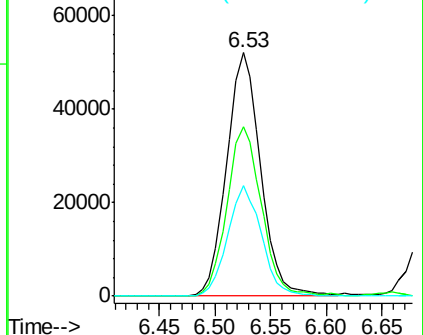


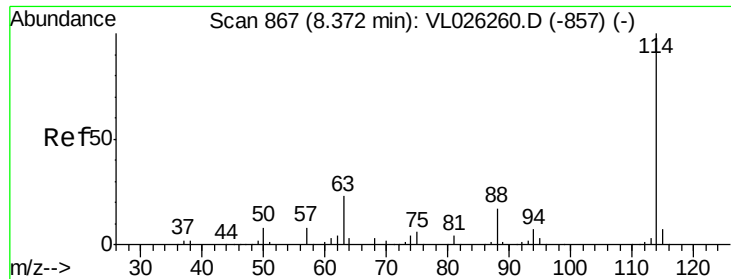
#31
cis-1,2-Dichloroethene
Concen: 1.63 ppbv
RT: 6.53 min Scan# 564
Delta R.T. -0.03 min
Lab File: VL026365.D
Acq: 11 Nov 2015 15:20

Tgt Ion	Ratio	Lower	Upper
61	100		
96	69.6	56.2	84.4
98	45.6	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





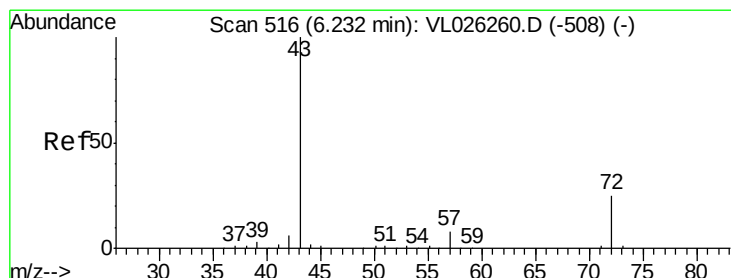
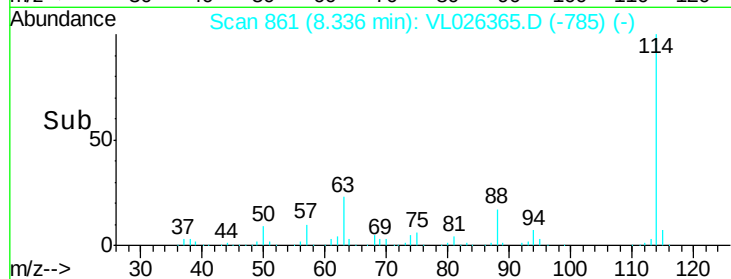
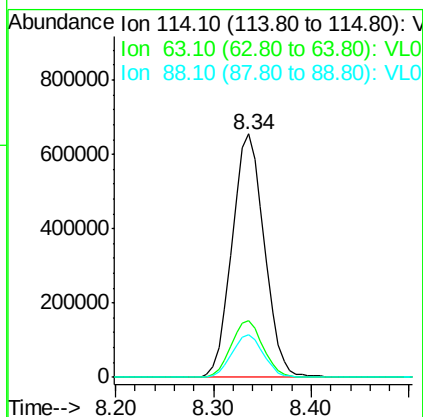
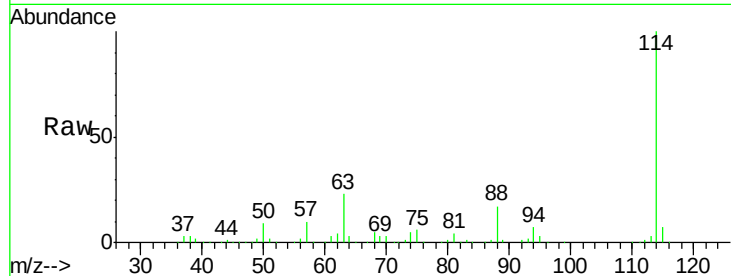
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.34 min Scan# 861
 Delta R.T. -0.04 min
 Lab File: VL026365.D
 Acq: 11 Nov 2015 15:20

Instrument :
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Tot Ion:114 Resp: 1502528
 Ion Ratio Lower Upper
 114 100
 63 23.2 18.6 28.0
 88 17.1 13.4 20.2

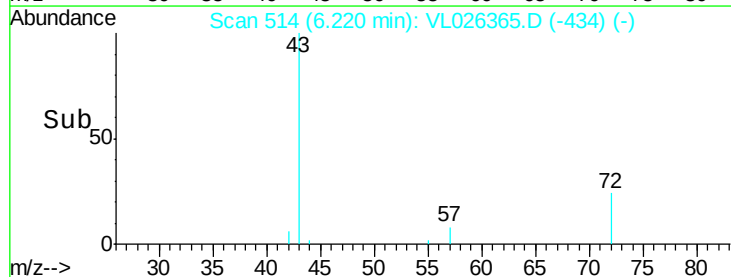
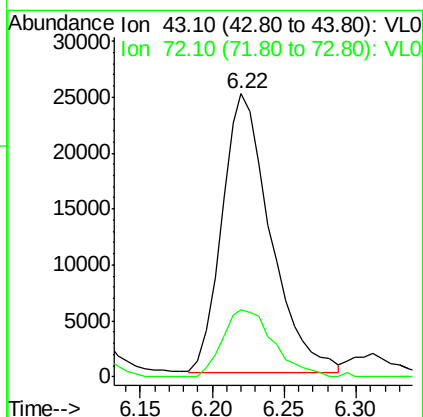
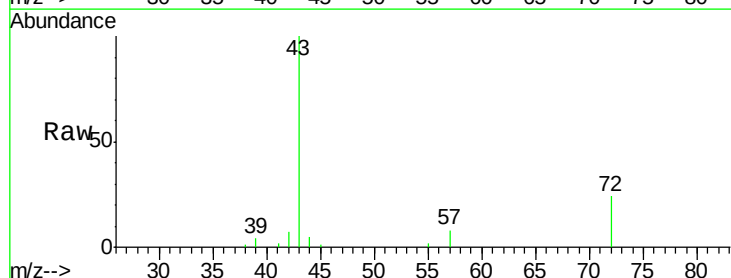
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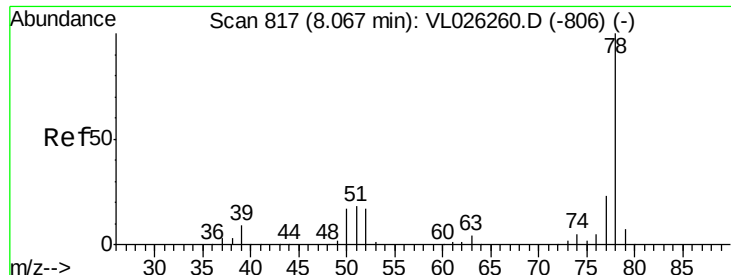
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#34
 2-Butanone
 Concen: 0.65 ppbv
 RT: 6.22 min Scan# 514
 Delta R.T. -0.01 min
 Lab File: VL026365.D
 Acq: 11 Nov 2015 15:20

Tgt Ion: 43 Resp: 58649
 Ion Ratio Lower Upper
 43 100
 72 25.5 19.9 29.9





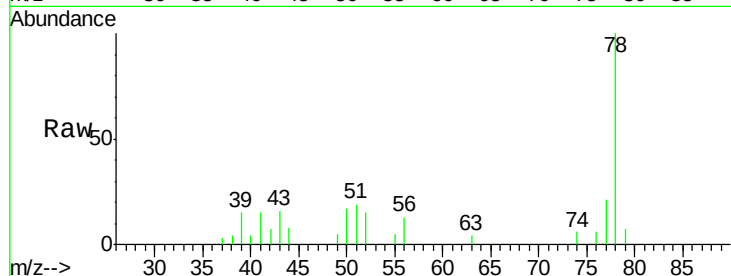
#36
Benzene
Concen: 0.14 ppbv
RT: 8.03 min Scan# 811
Delta R.T. -0.04 min
Lab File: VL026365.D
Acq: 11 Nov 2015 15:20

Instrument :
MSVOA_L
ClientSampleId :
DIN46INFLUENT110615

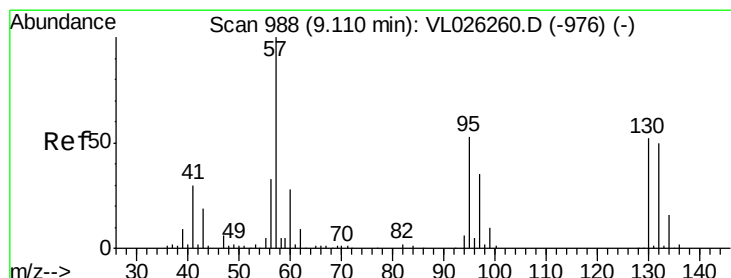
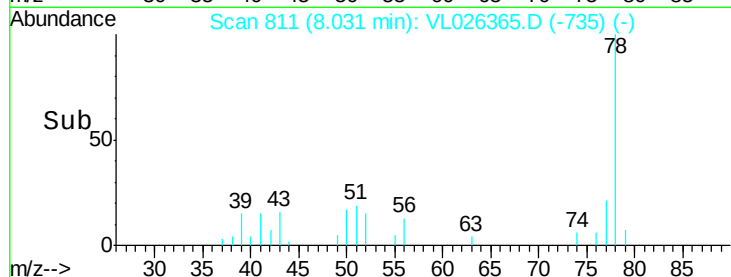
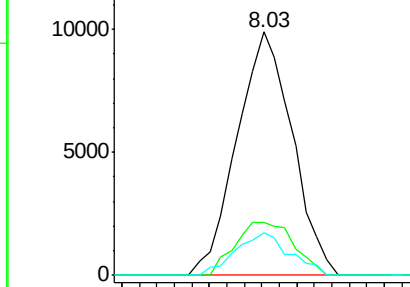
Tot Ion	Ratio	Lower	Upper
78	100		
77	21.5	18.0	27.0
50	17.4	13.3	19.9

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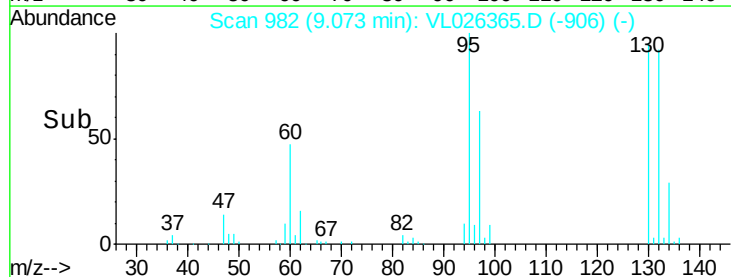
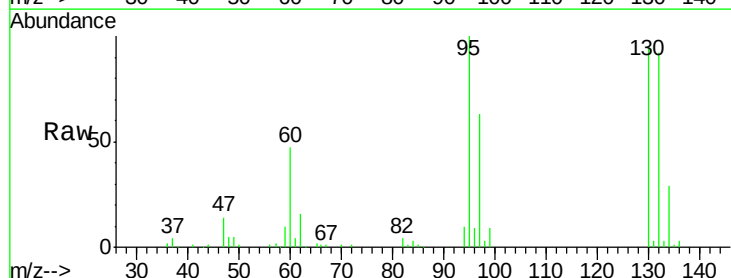
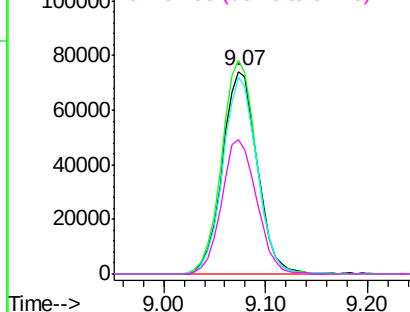
Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0

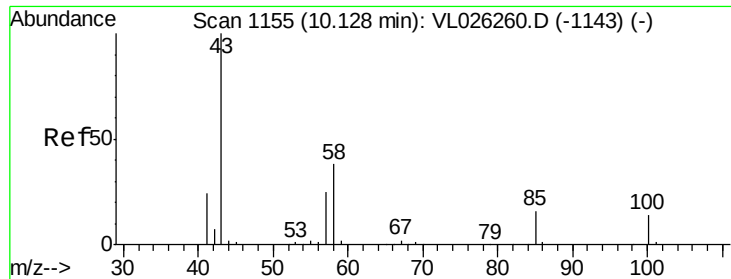


#38
Trichloroethene
Concen: 2.29 ppbv
RT: 9.07 min Scan# 982
Delta R.T. -0.04 min
Lab File: VL026365.D
Acq: 11 Nov 2015 15:20

Tgt Ion	Ratio	Lower	Upper
130	100		
95	105.5	80.8	121.2
132	97.2	76.2	114.2
97	66.4	53.0	79.6

Abundance Ion 130.00 (129.70 to 130.70): V
Ion 95.00 (94.70 to 95.70): VL0
Ion 132.00 (131.70 to 132.70): V
Ion 97.00 (96.70 to 97.70): VL0





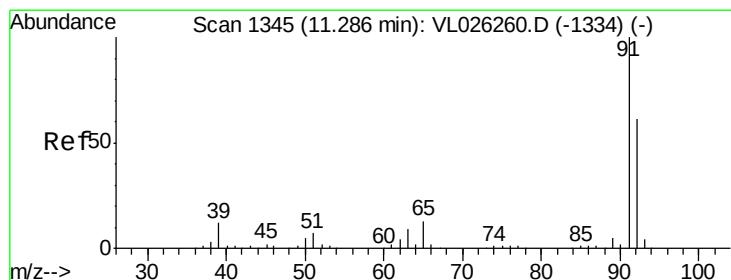
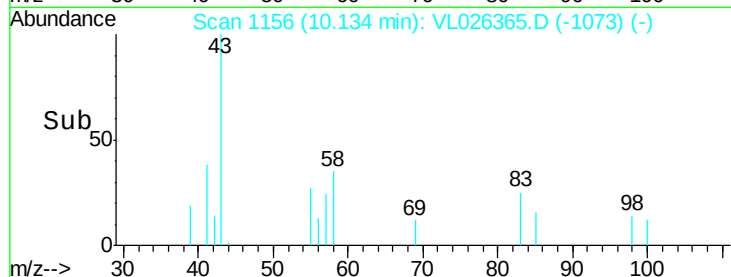
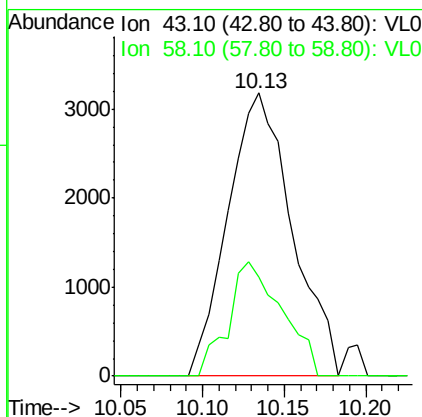
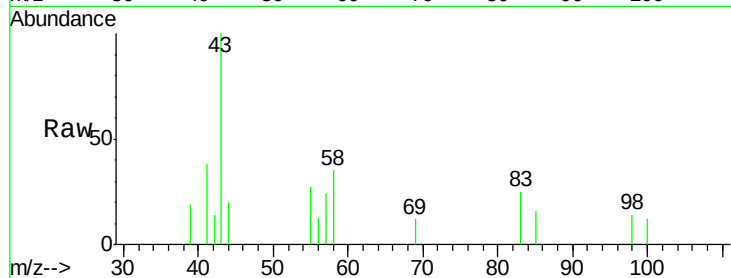
#50
4-Methyl-2-Pentanone
Concen: 0.07 ppbv
RT: 10.13 min Scan# 1156
Delta R.T. 0.01 min
Lab File: VL026365.D
Acq: 11 Nov 2015 15:20

Instrument :
MSVOA_L
ClientSampleId :
DIN46INFLUENT110615

Tot Ion: 43 Resp: 8717
Ion Ratio Lower Upper
43 100
58 33.7 30.5 45.7

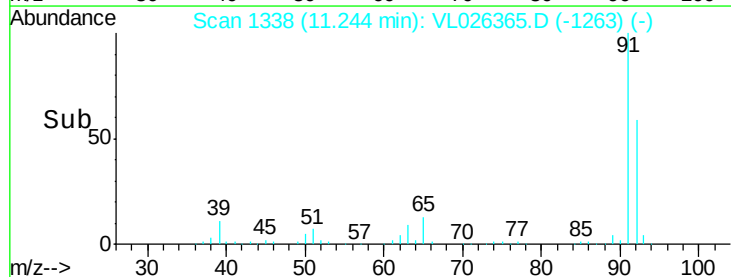
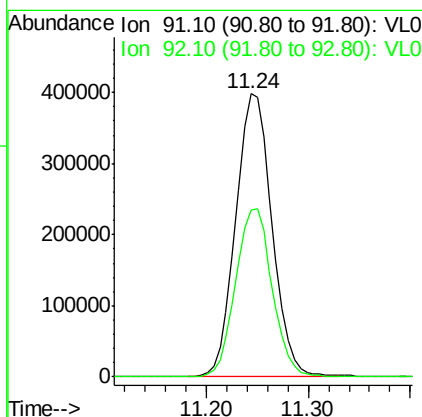
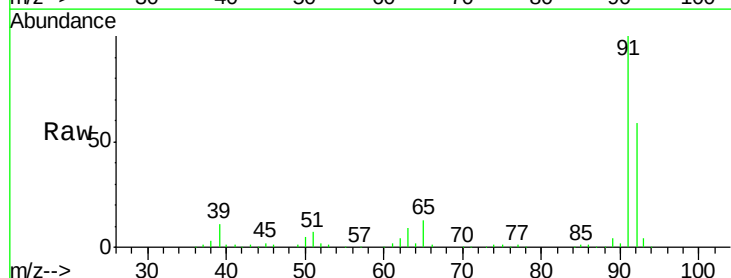
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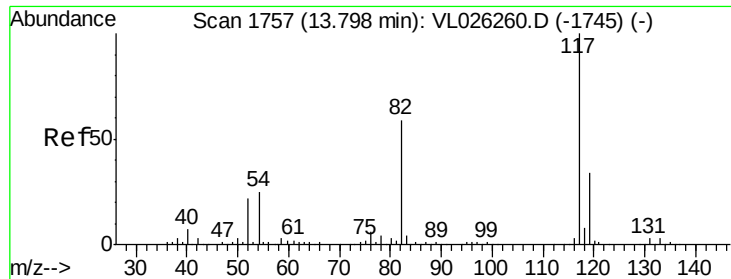
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#53
Toluene
Concen: 4.77 ppbv
RT: 11.24 min Scan# 1338
Delta R.T. -0.04 min
Lab File: VL026365.D
Acq: 11 Nov 2015 15:20

Tgt Ion: 91 Resp: 985518
Ion Ratio Lower Upper
91 100
92 60.2 48.6 73.0





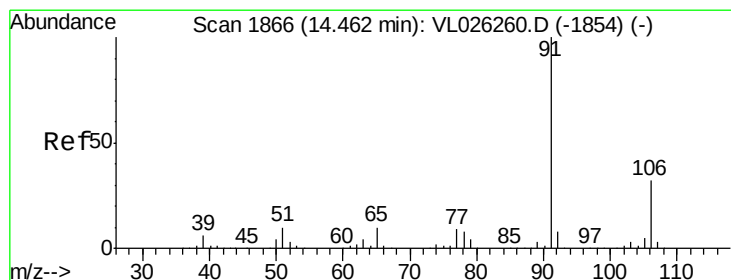
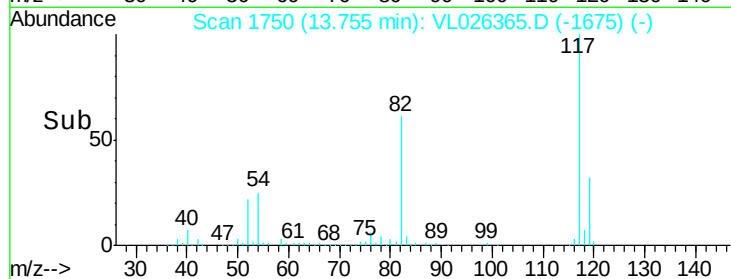
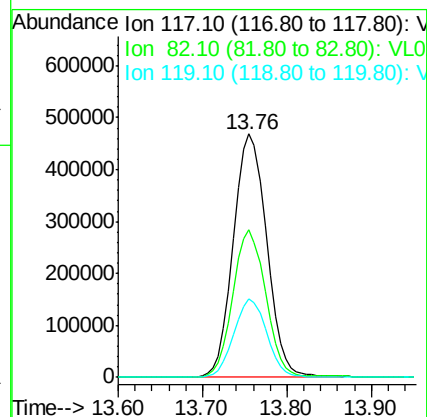
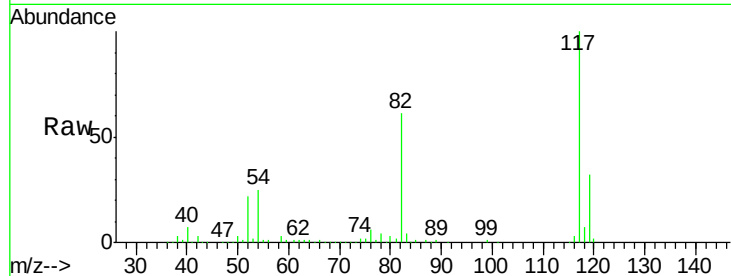
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.76 min Scan# 1750
Delta R.T. -0.04 min
Lab File: VL026365.D
Acq: 11 Nov 2015 15:20

Instrument :
MSVOA_L
ClientSampleId :
DIN46INFLUENT110615

Tot Ion	Ratio	Lower	Upper
117	100		
82	60.7	48.2	72.4
119	32.1	46.2	69.2

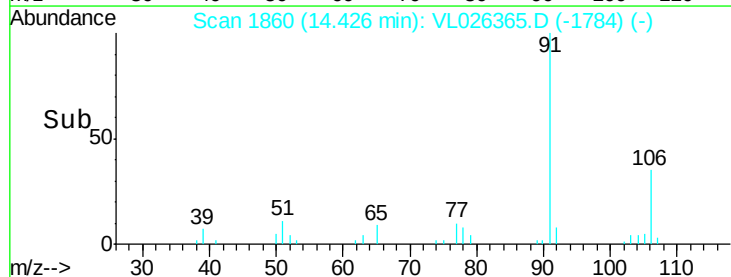
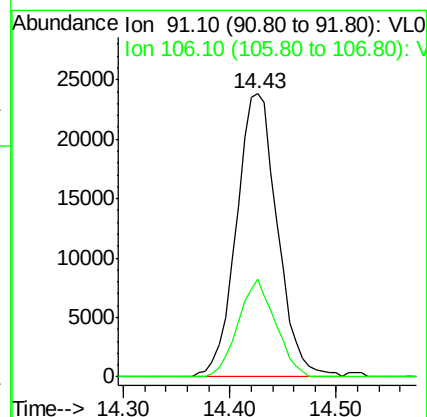
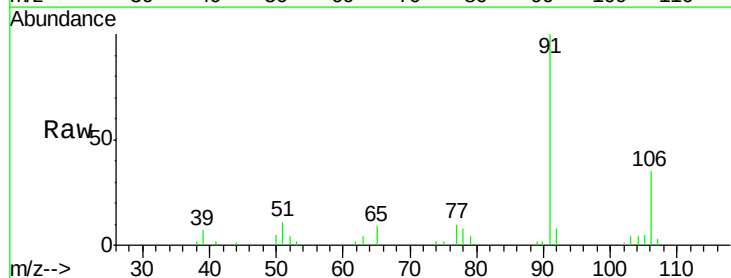
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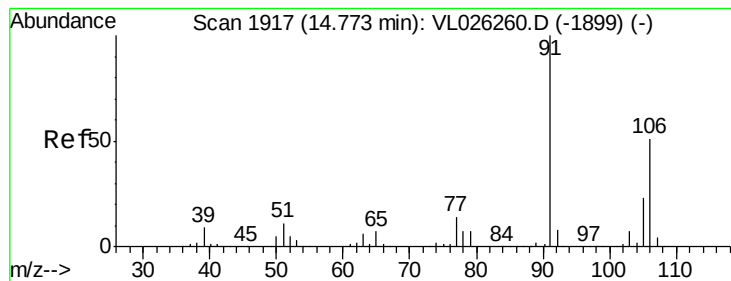
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#58
Ethyl Benzene
Concen: 0.31 ppbv
RT: 14.43 min Scan# 1860
Delta R.T. -0.04 min
Lab File: VL026365.D
Acq: 11 Nov 2015 15:20

Tgt Ion	Ratio	Lower	Upper
91	100		
106	34.7	25.7	38.5





#59

m/p-Xylene

Concen: 0.96 ppbv

RT: 14.70 min Scan# 1905

Delta R.T. -0.07 min

Lab File: VL026365.D

Acq: 11 Nov 2015 15:20

Instrument :

MSVOA_L

ClientSampleId :

DIN46INFLUENT110615

Tot Ion: 91 Resp: 158818

Ion Ratio Lower Upper

91 100

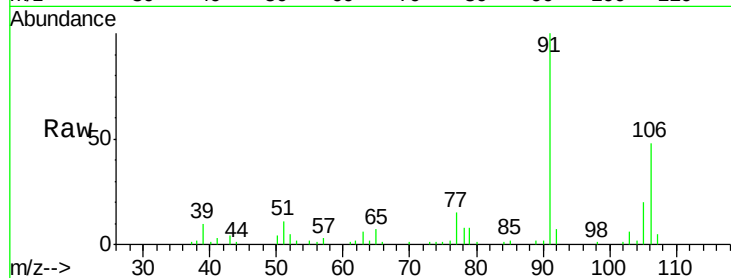
106 47.9 0.0 0.0#

Manual Integrations

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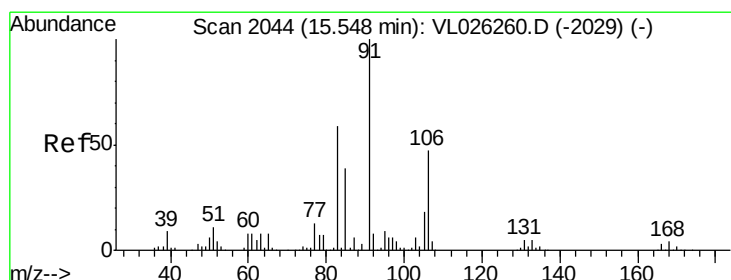
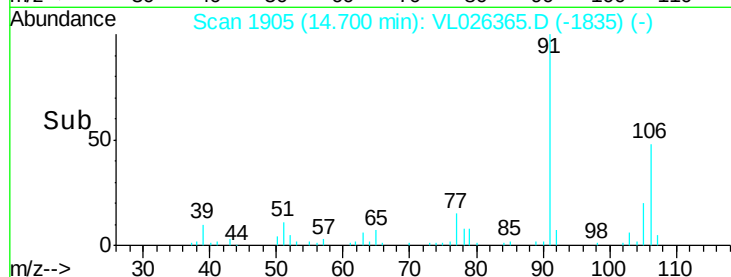
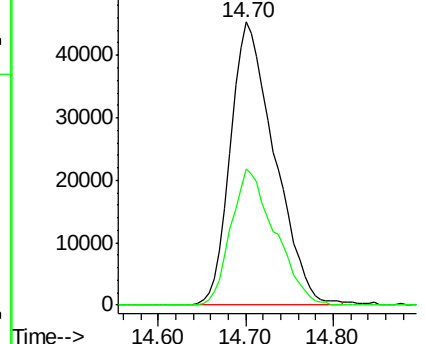
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.40 ppbv

RT: 15.50 min Scan# 2036

Delta R.T. -0.05 min

Lab File: VL026365.D

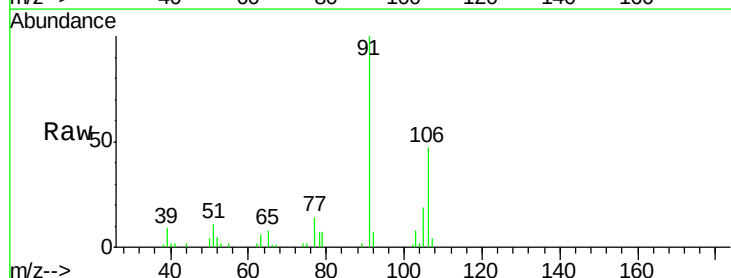
Acq: 11 Nov 2015 15:20

Tgt Ion: 91 Resp: 68742

Ion Ratio Lower Upper

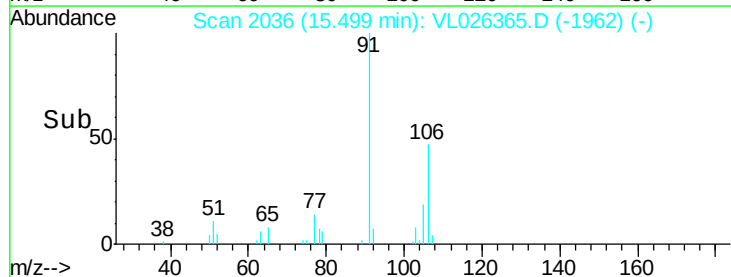
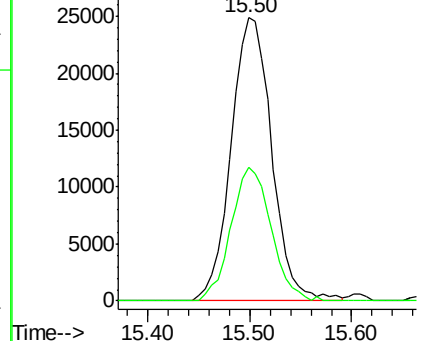
91 100

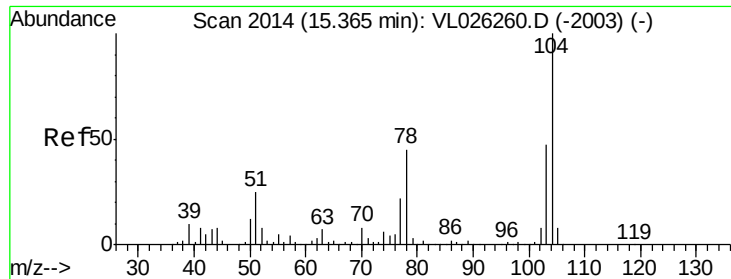
106 46.4 23.6 70.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 0.30 ppbv

RT: 15.33 min Scan# 2008

Delta R.T. -0.04 min

Lab File: VL026365.D

Acq: 11 Nov 2015 15:20

Instrument :

MSVOA_L

ClientSampleId :

DIN46INFLUENT110615

Tot Ion:104 Resp: 22280

Ion Ratio Lower Upper

104 100

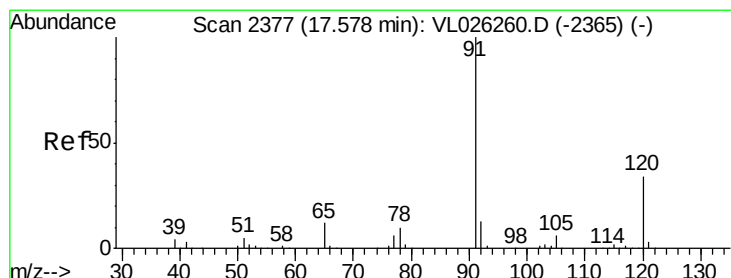
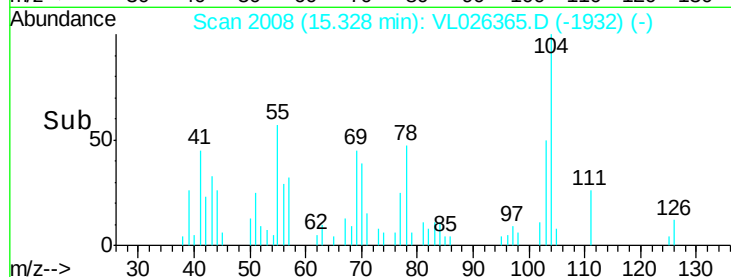
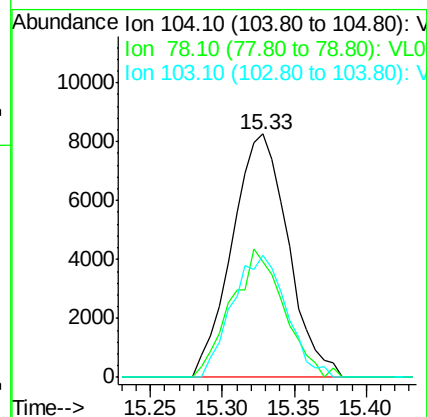
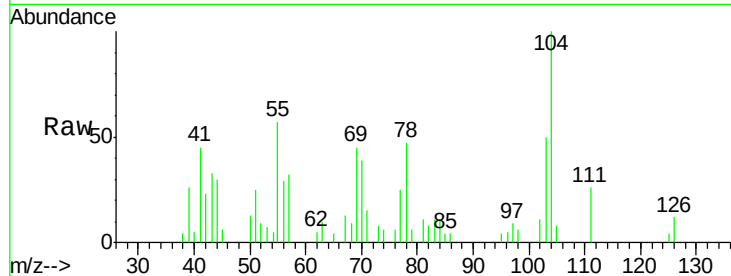
78 49.6 35.5 53.3

103 48.7 37.0 55.6

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#64

n-propylbenzene

Concen: 0.16 ppbv

RT: 17.53 min Scan# 2369

Delta R.T. -0.05 min

Lab File: VL026365.D

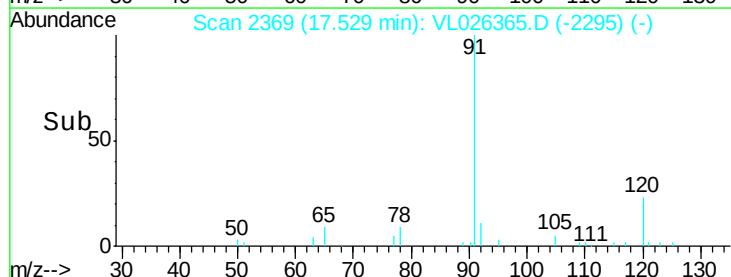
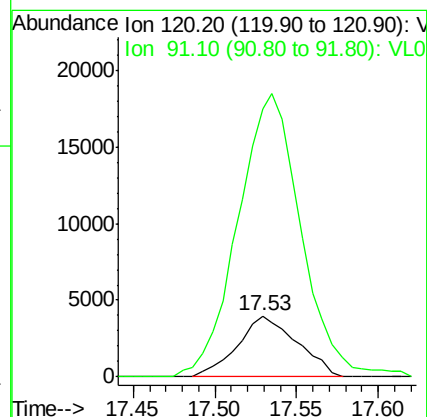
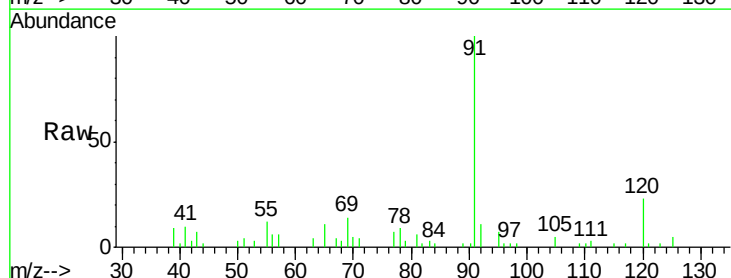
Acq: 11 Nov 2015 15:20

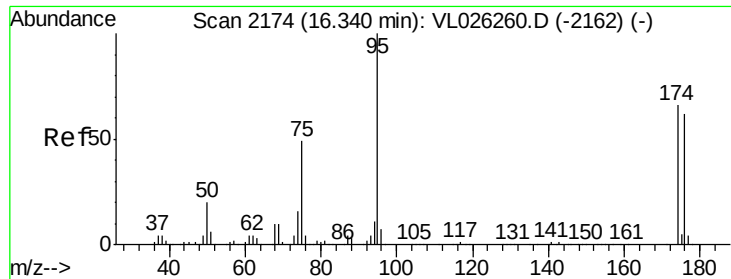
Tgt Ion:120 Resp: 10048

Ion Ratio Lower Upper

120 100

91 498.3 340.8 511.2





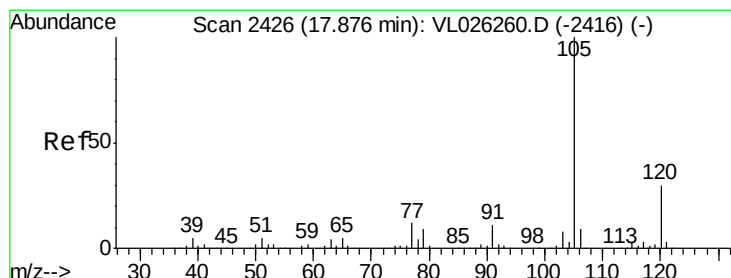
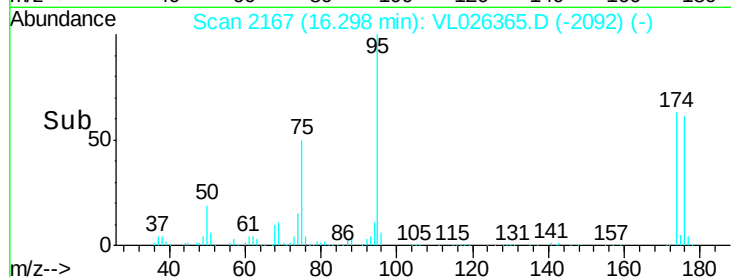
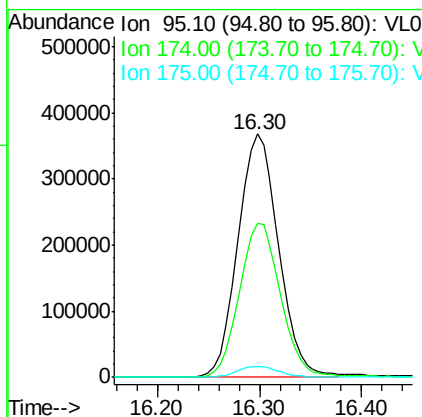
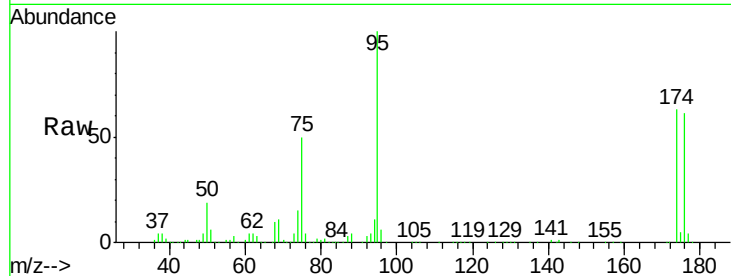
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.60 ppbv
 RT: 16.30 min Scan# 2167
 Delta R.T. -0.04 min
 Lab File: VL026365.D
 Acq: 11 Nov 2015 15:20

Instrument :
 MSVOA_L
 ClientSampleId :
 DIN46INFLUENT110615

Tot Ion: 95 Resp: 1018755
 Ion Ratio Lower Upper
 95 100
 174 64.9 52.9 79.3
 175 4.7 3.8 5.8

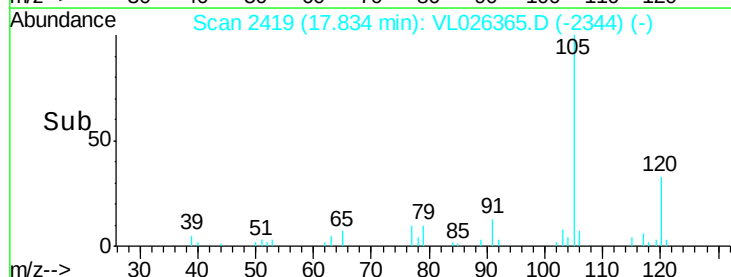
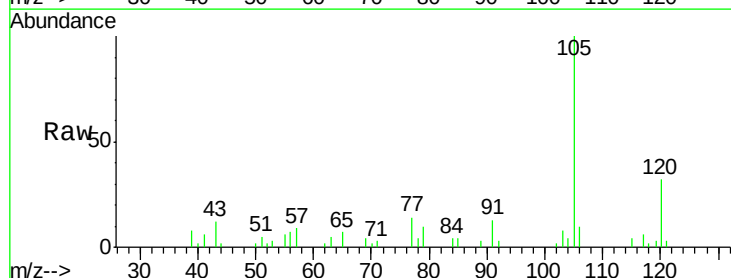
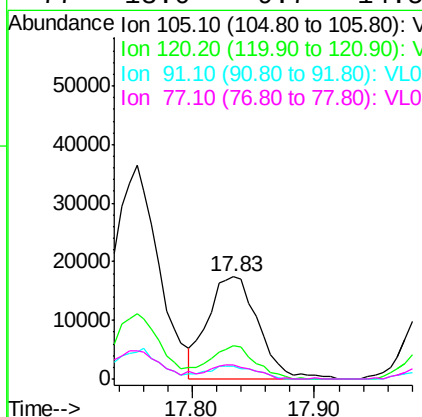
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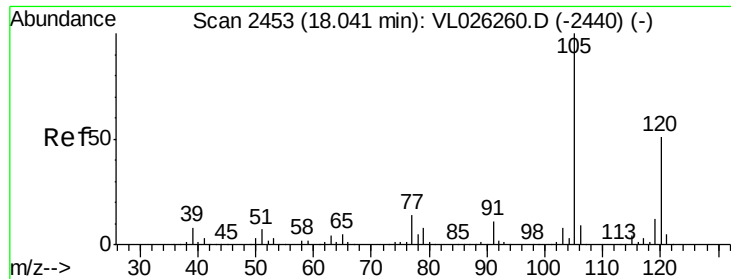
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#72
 4-Ethyltoluene
 Concen: 0.26 ppbv
 RT: 17.83 min Scan# 2419
 Delta R.T. -0.04 min
 Lab File: VL026365.D
 Acq: 11 Nov 2015 15:20

Tgt Ion: 105 Resp: 49974
 Ion Ratio Lower Upper
 105 100
 120 29.4 25.1 37.7
 91 12.3 9.1 13.7
 77 13.0 9.7 14.5





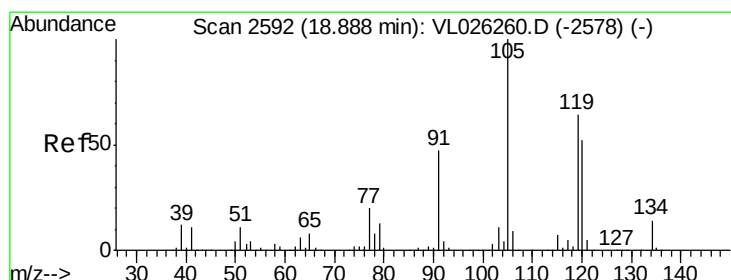
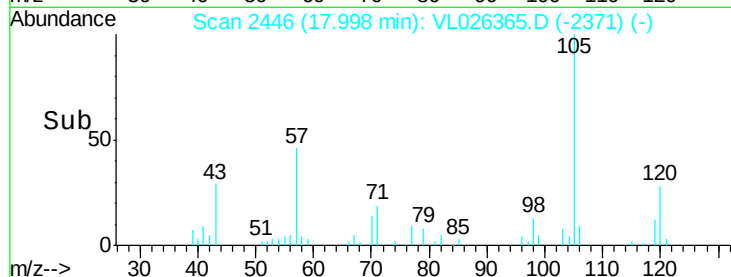
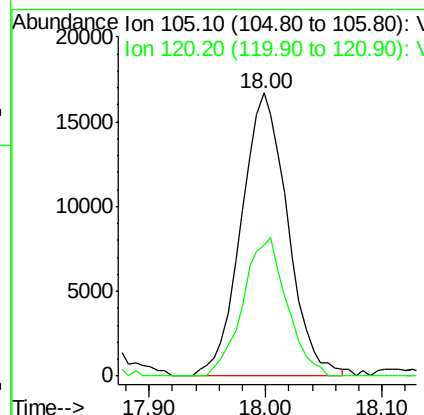
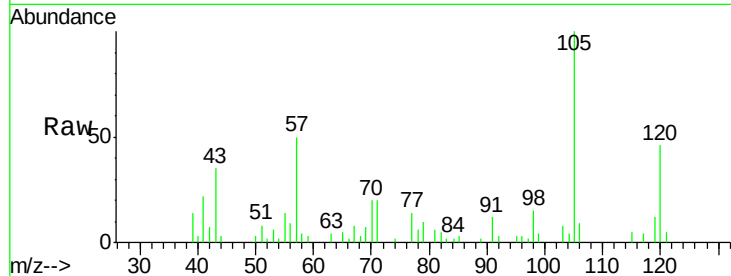
#73
 1,3,5-Trimethylbenzene
 Concen: 0.25 ppbv
 RT: 18.00 min Scan# 2446
 Delta R.T. -0.04 min
 Lab File: VL026365.D
 Acq: 11 Nov 2015 15:20

Instrument :
 MSVOA_L
 ClientSampleId :
 DIN46INFLUENT110615

Tot Ion:105 Resp: 46381
 Ion Ratio Lower Upper
 105 100
 120 46.1 40.6 61.0

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#74
 1,2,4-Trimethylbenzene
 Concen: 0.70 ppbv
 RT: 18.85 min Scan# 2585
 Delta R.T. -0.04 min
 Lab File: VL026365.D
 Acq: 11 Nov 2015 15:20

Tgt Ion:105 Resp: 133860
 Ion Ratio Lower Upper
 105 100
 120 44.1 41.2 61.8
 91 10.9 37.8 56.8#
 77 15.3 16.1 24.1#

