

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL070715\
 Data File : VL025615.D
 Acq On : 7 Jul 2015 19:59
 Operator : SY/MD
 Sample : G2872-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 DIN46-EFFLUENT-070115

Manual Integrations
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sam
 7/8/2015 11:04:46 AM

Quant Time: Jul 08 08:58:40 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL070715AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 08
 QLast Update : Wed Jul 08 02:22:55 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.67	49	647300	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	8.34	114	1739513	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.75	117	2075837	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.29	95	1773185	10.13	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.65	85	128342	0.77	ppbv	100
3) Chlorodifluoromethane	3.57	51	27587m	0.30	ppbv	
4) Chloromethane	3.76	50	46672	1.12	ppbv	96
5) Vinyl Chloride	3.89	62	702490	15.63	ppbv	98
7) Chloroethane	4.24	64	5319	0.25	ppbv	94
9) Propene	3.60	41	589236	19.44	ppbv	93
13) Ethanol	4.35	45	375246	79.63	ppbv	97
15) Acetone	4.59	43	7151106	62.54	ppbv	94
17) tert-Butyl alcohol	5.15	59	8920258	92.96	ppbv	98
19) Isopropyl Alcohol	4.78	45	185779	4.07	ppbv #	96
20) Methylene Chloride	5.16	84	15492	0.33	ppbv #	1
34) 2-Butanone	6.20	43	2484585	25.17	ppbv	99
38) Trichloroethene	9.07	130	16082	0.21	ppbv	95
41) Tetrahydrofuran	7.12	42	613028	12.44	ppbv	99
51) 2-Hexanone	11.63	43	24785	0.19	ppbv #	95
52) Tetrachloroethene	12.80	164	4826m	0.06	ppbv	
53) Toluene	11.24	91	25298	0.11	ppbv	97
62) Isopropylbenzene	16.55	105	41023	0.10	ppbv	99
74) 1,2,4-Trimethylbenzene	18.83	105	75359	0.19	ppbv #	68
79) Naphthalene	23.93	128	97689	0.26	ppbv #	93
80) Naphthalene,2-methyl-	26.05	142	27516	0.25	ppbv	92

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

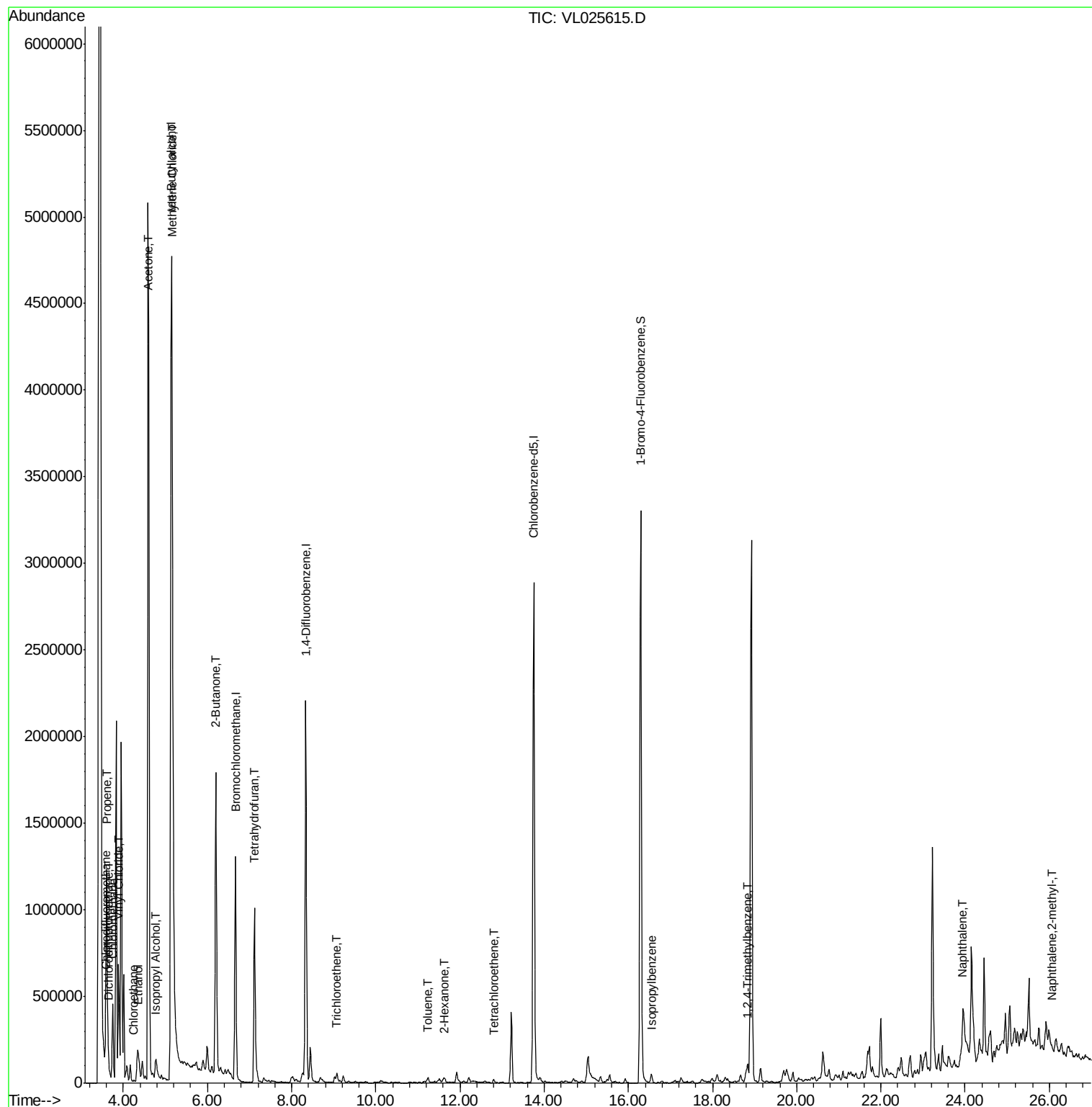
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL070715\
Data File : VL025615.D
Acq On : 7 Jul 2015 19:59
Operator : SY/MD
Sample : G2872-01
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

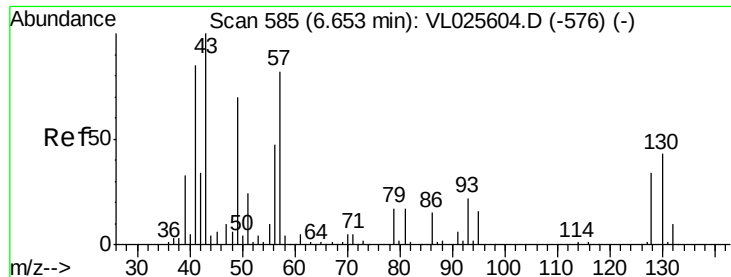
Instrument :
MSVOA_L
ClientSampleId :
DIN46-EFFLUENT-070115

Quant Time: Jul 08 08:58:40 2015
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL070715AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul
QLast Update : Wed Jul 08 02:22:55 2015
Response via : Initial Calibration

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.67 min Scan# 587

Delta R.T. 0.01 min

Lab File: VL025615.D

Acq: 7 Jul 2015 19:59

Instrument :

MSVOA_L

ClientSampleId :

DIN46-EFFLUENT-070115

Tot Ion: 49 Resp: 647300

Ion Ratio Lower Upper

49 100

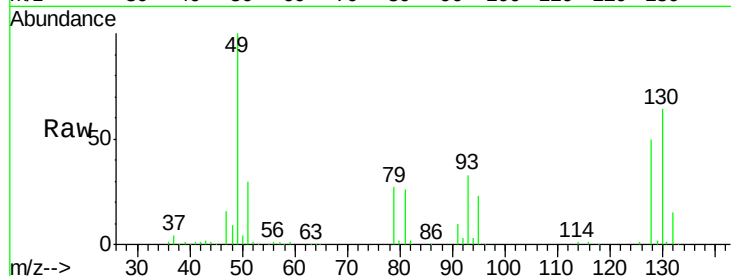
128 51.6 25.4 76.0

130 66.2 31.9 95.9

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

400000

300000

200000

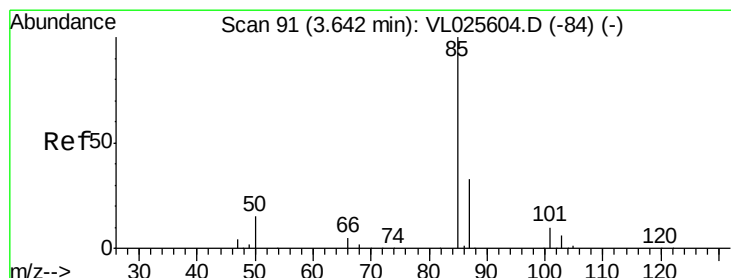
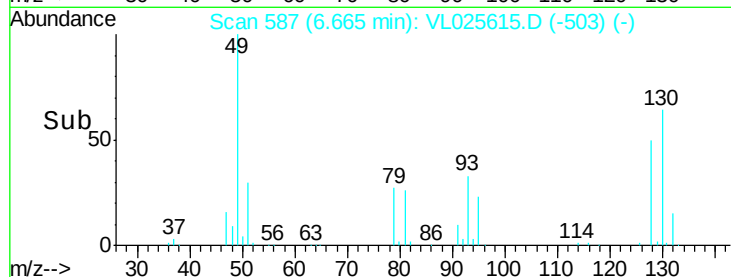
100000

0

6.67

6.55 6.60 6.65 6.70 6.75

Time-->



#2

Dichlorodifluoromethane

Concen: 0.77 ppbv

RT: 3.65 min Scan# 92

Delta R.T. 0.01 min

Lab File: VL025615.D

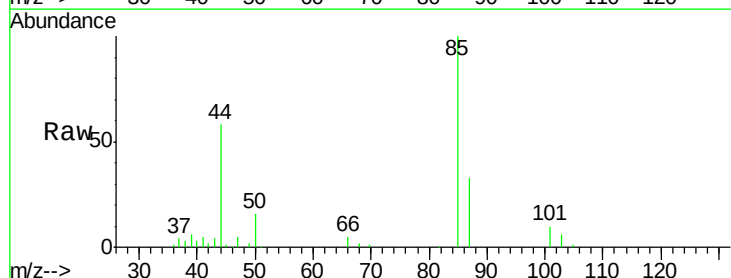
Acq: 7 Jul 2015 19:59

Tgt Ion: 85 Resp: 128342

Ion Ratio Lower Upper

85 100

87 33.3 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

80000

60000

40000

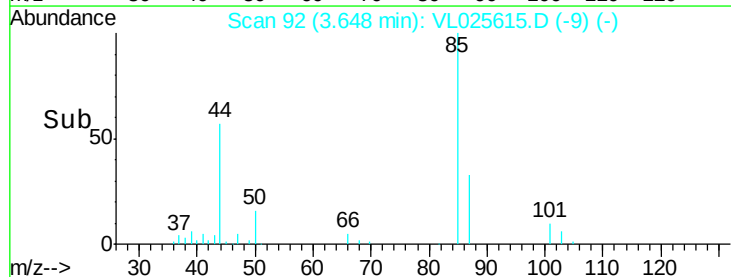
20000

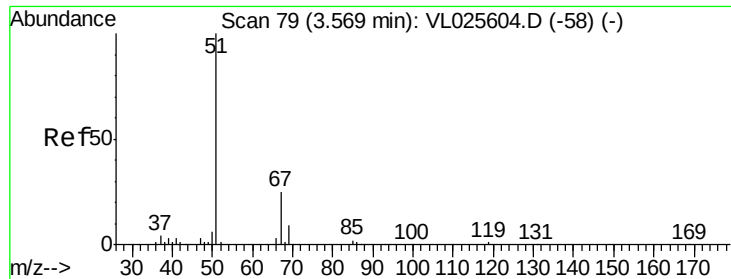
0

3.65

3.60 3.65 3.70

Time-->





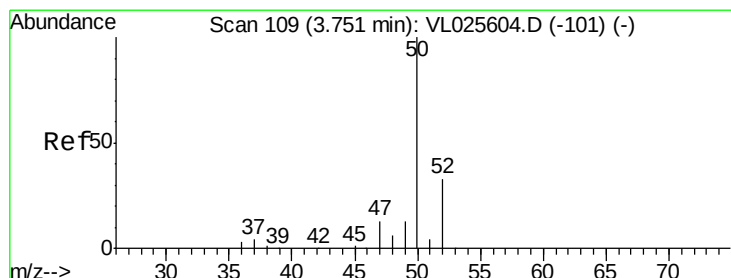
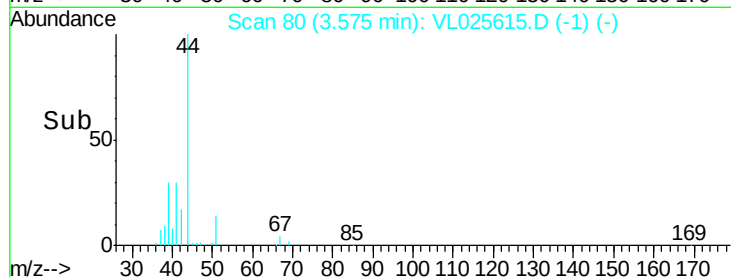
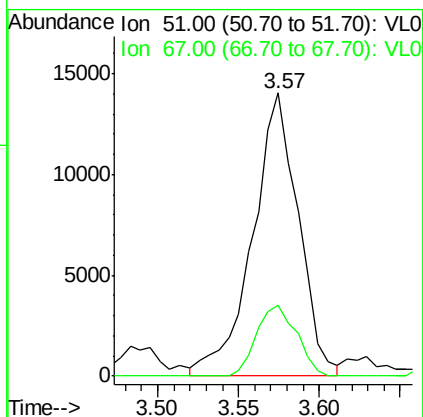
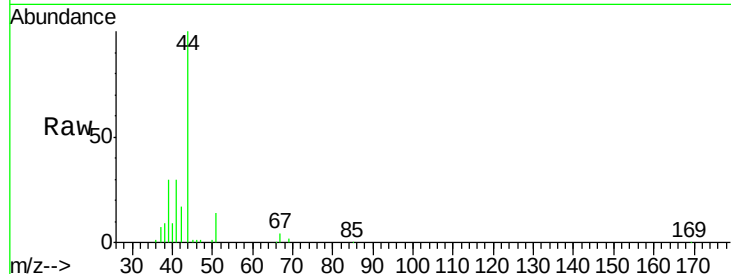
#3
Chlorodifluoromethane
Concen: 0.30 ppbv m
RT: 3.57 min Scan# 80
Delta R.T. 0.01 min
Lab File: VL025615.D
Acq: 7 Jul 2015 19:59

Instrument :
MSVOA_L
ClientSampleId :
DIN46-EFFLUENT-070115

Tot Ion	Ratio	Lower	Upper
51	100		
67	21.8	19.5	29.3

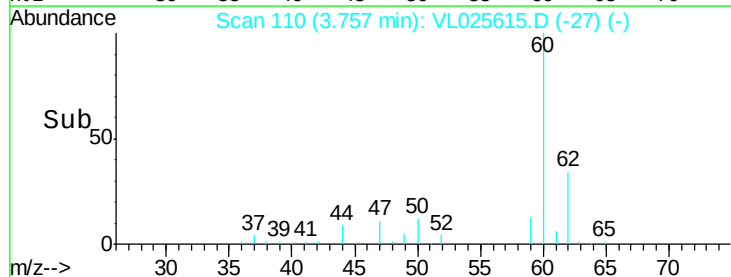
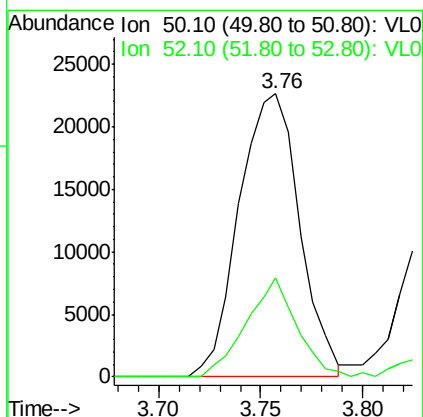
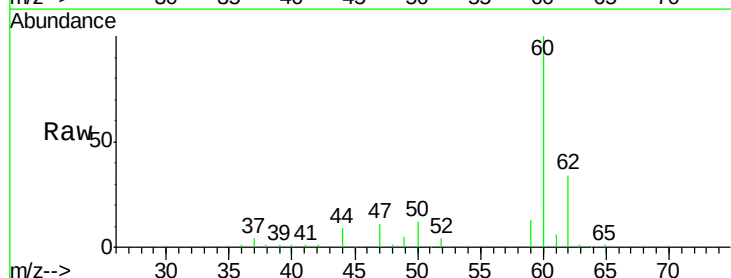
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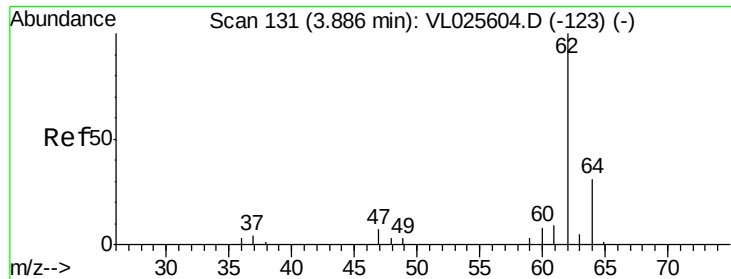
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#4
Chloromethane
Concen: 1.12 ppbv
RT: 3.76 min Scan# 110
Delta R.T. 0.01 min
Lab File: VL025615.D
Acq: 7 Jul 2015 19:59

Tgt Ion	Ratio	Lower	Upper
50	100		
52	34.9	26.2	39.2





#5

Vinyl Chloride

Concen: 15.63 ppbv

RT: 3.89 min Scan# 132

Delta R.T. 0.01 min

Lab File: VL025615.D

Acq: 7 Jul 2015 19:59

Instrument :

MSVOA_L

ClientSampleId :

DIN46-EFFLUENT-070115

Tot Ion: 62 Resp: 702490

Ion Ratio Lower Upper

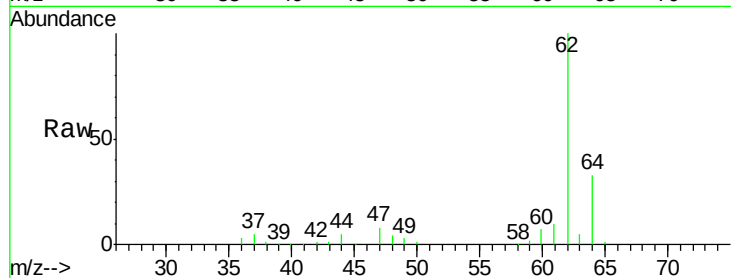
62 100

64 32.7 25.0 37.6

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.89

400000

300000

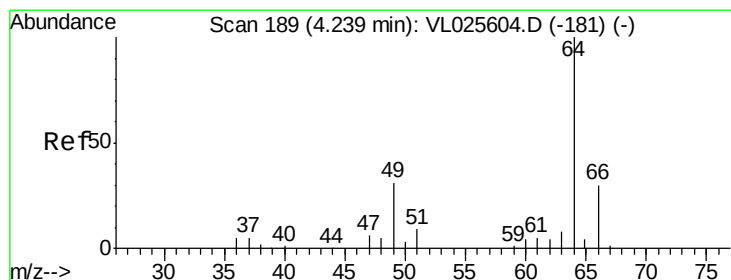
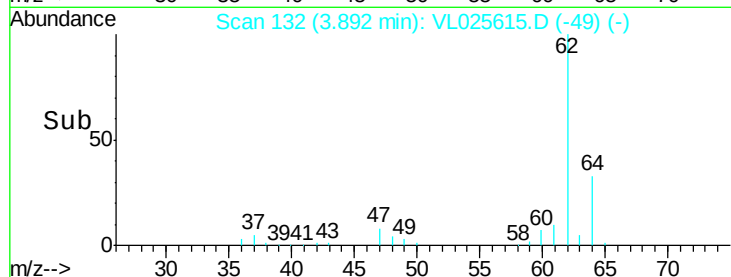
200000

100000

0

3.80 3.90 4.00

Time-->



#7

Chloroethane

Concen: 0.25 ppbv

RT: 4.24 min Scan# 189

Delta R.T. -0.00 min

Lab File: VL025615.D

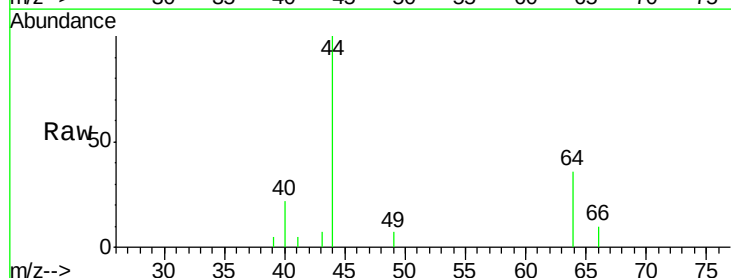
Acq: 7 Jul 2015 19:59

Tgt Ion: 64 Resp: 5319

Ion Ratio Lower Upper

64 100

66 26.4 23.8 35.8



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

4.24

3000

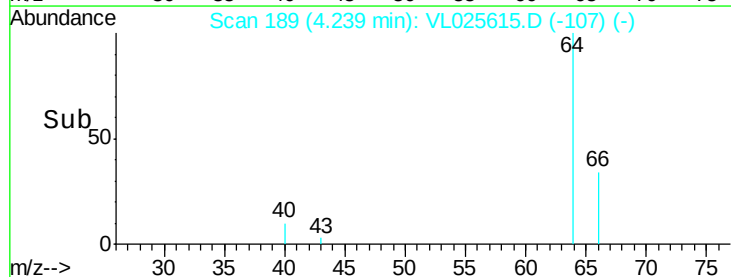
2000

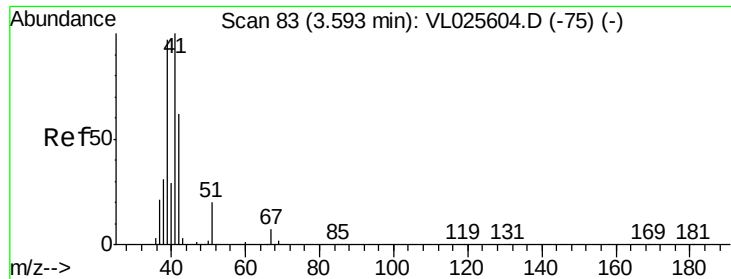
1000

0

4.20 4.25

Time-->





#9

Propene

Concen: 19.44 ppbv

RT: 3.60 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL025615.D

Acq: 7 Jul 2015 19:59

Tot Ion: 41 Resp: 589236

Ion Ratio Lower Upper

41 100

42 60.1 52.4 78.6

Instrument :

MSVOA_L

ClientSampleId :

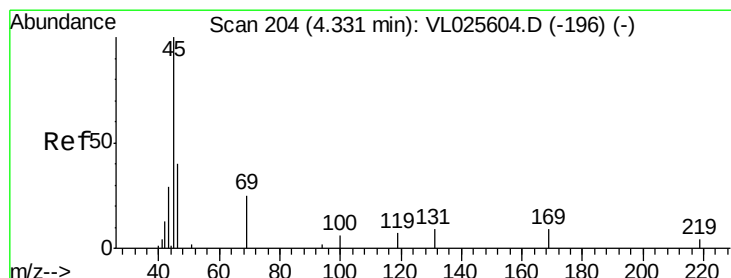
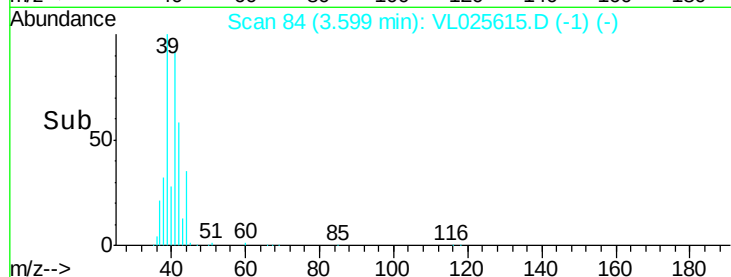
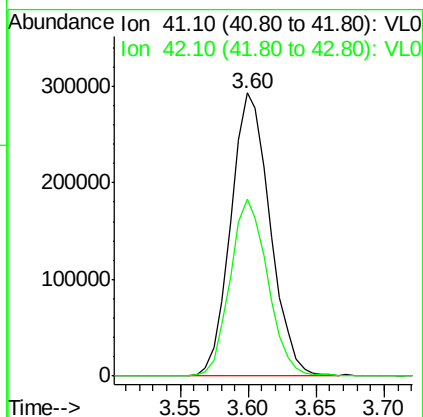
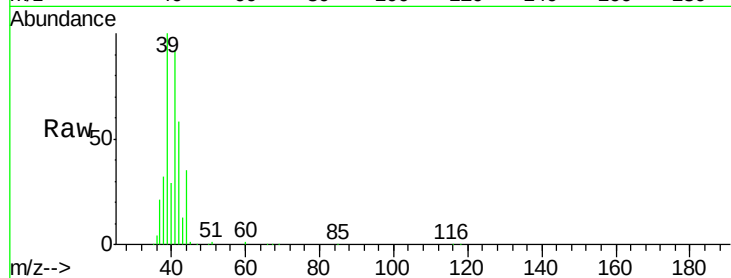
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#13

Ethanol

Concen: 79.63 ppbv

RT: 4.35 min Scan# 207

Delta R.T. 0.02 min

Lab File: VL025615.D

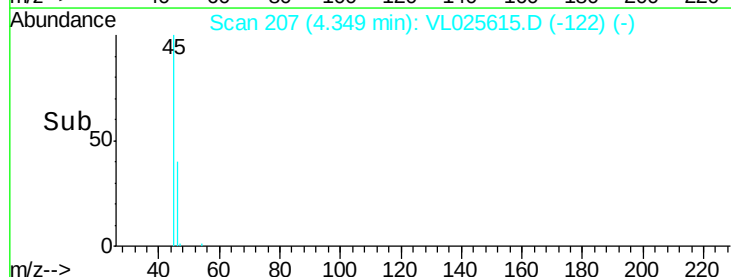
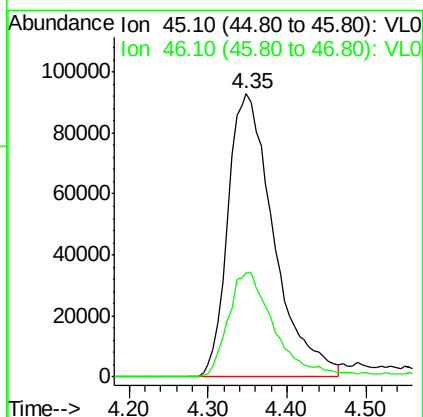
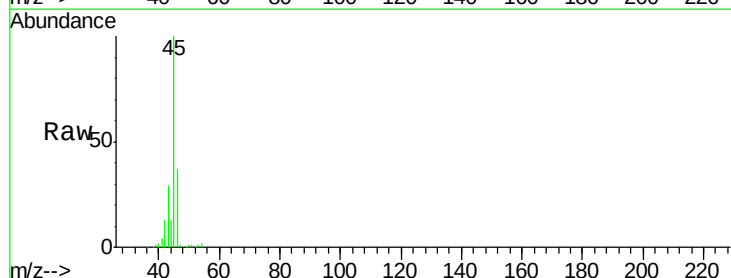
Acq: 7 Jul 2015 19:59

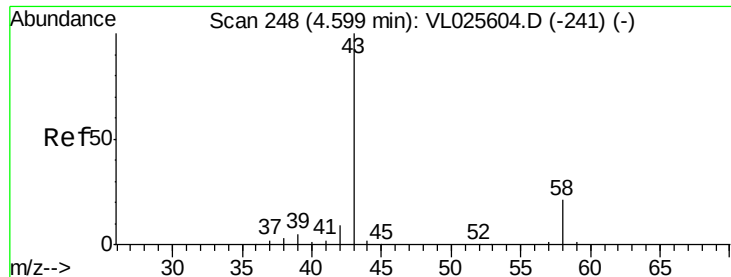
Tgt Ion: 45 Resp: 375246

Ion Ratio Lower Upper

45 100

46 38.1 16.0 64.0





#15

Acetone

Concen: 62.54 ppbv

RT: 4.59 min Scan# 247

Delta R.T. -0.01 min

Lab File: VL025615.D

Acq: 7 Jul 2015 19:59

Instrument :

MSVOA_L

ClientSampleId :

DIN46-EFFLUENT-070115

Tot Ion: 43 Resp: 7151106

Ion Ratio Lower Upper

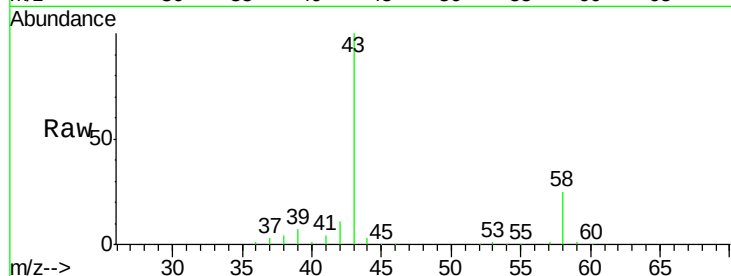
43 100

58 24.4 17.2 25.8

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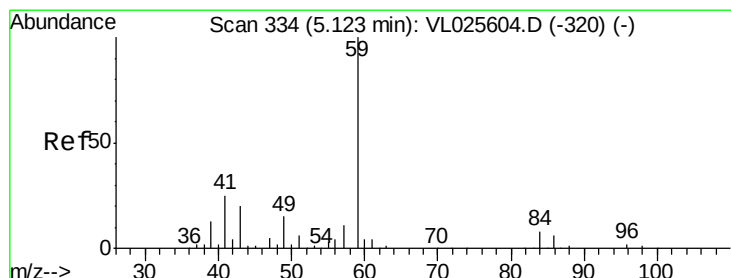
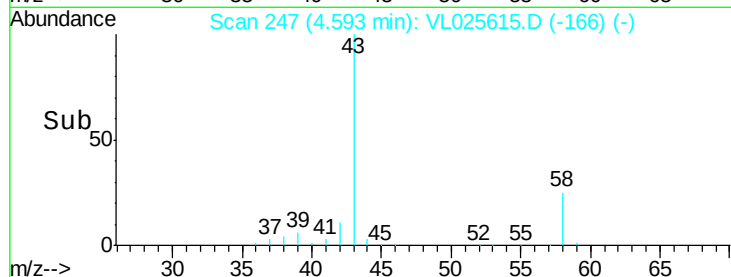
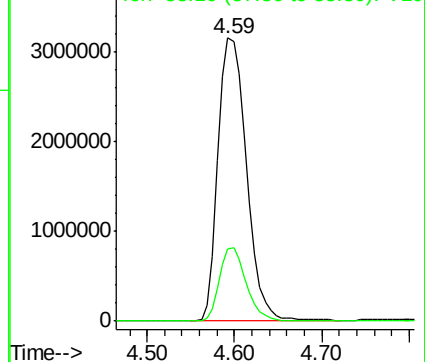
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 92.96 ppbv

RT: 5.15 min Scan# 338

Delta R.T. 0.02 min

Lab File: VL025615.D

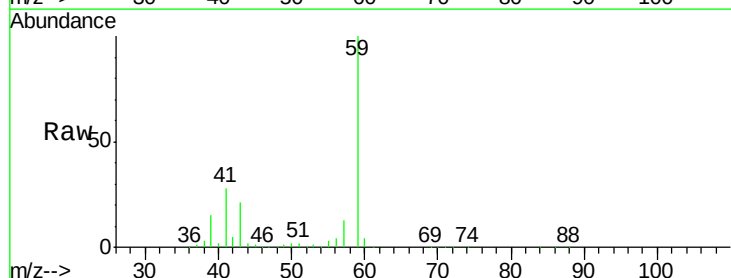
Acq: 7 Jul 2015 19:59

Tgt Ion: 59 Resp: 8920258

Ion Ratio Lower Upper

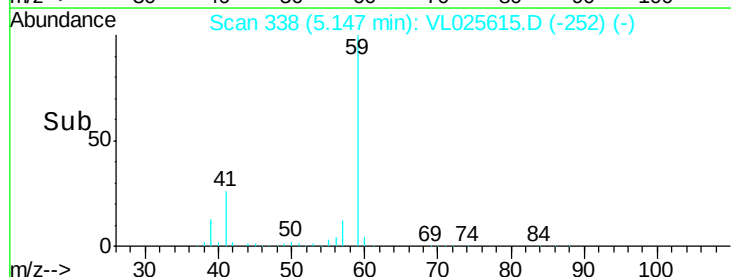
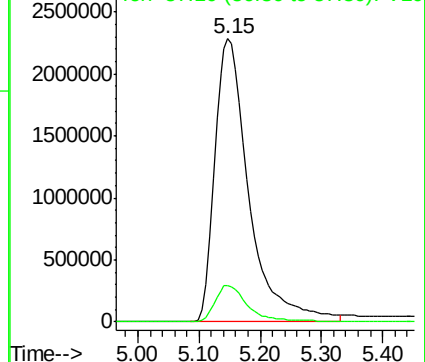
59 100

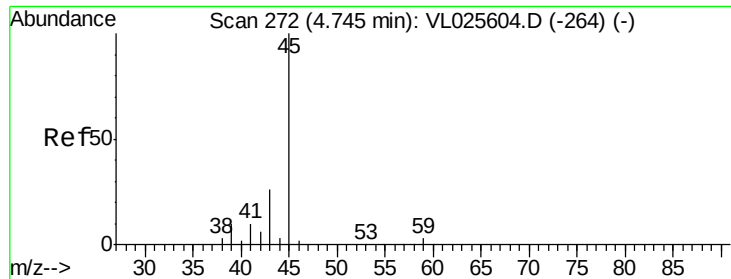
57 12.7 9.4 14.2



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





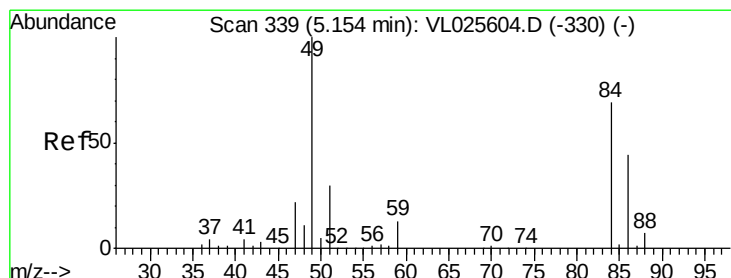
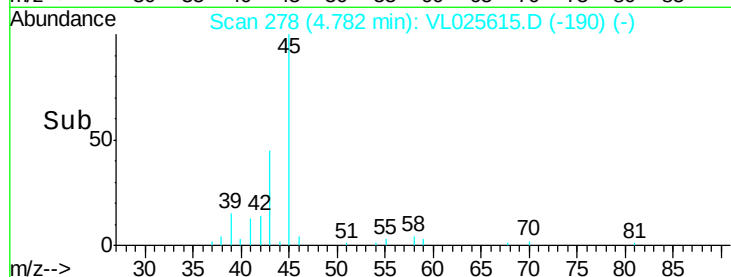
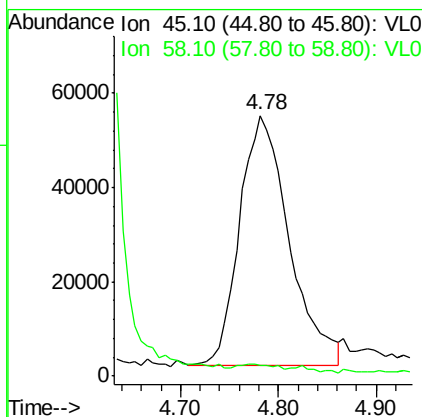
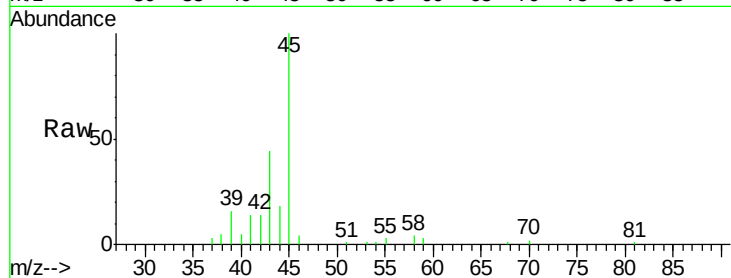
#19
Isopropyl Alcohol
Concen: 4.07 ppbv
RT: 4.78 min Scan# 278
Delta R.T. 0.04 min
Lab File: VL025615.D
Acq: 7 Jul 2015 19:59

Instrument :
MSVOA_L
ClientSampleId :
DIN46-EFFLUENT-070115

Tot Ion: 45 Resp: 185779
Ion Ratio Lower Upper
45 100
58 0.0 1.1 1.7#

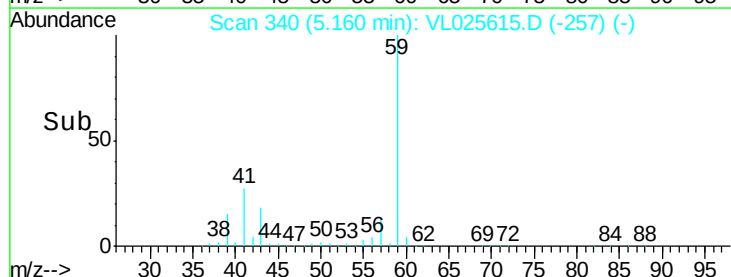
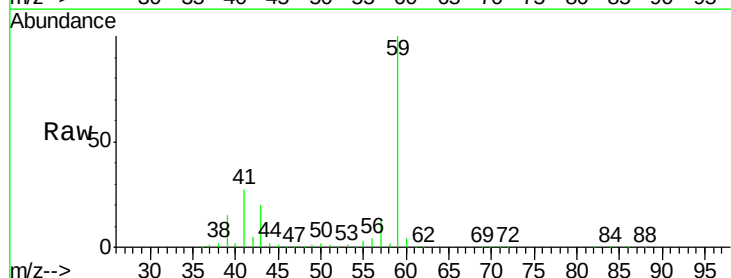
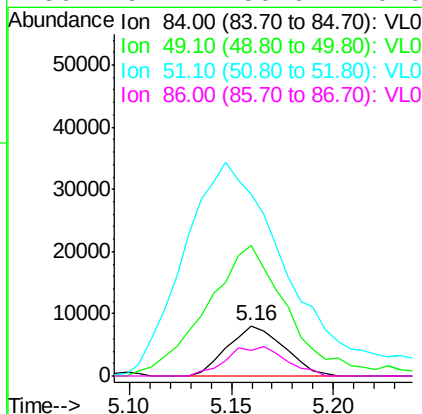
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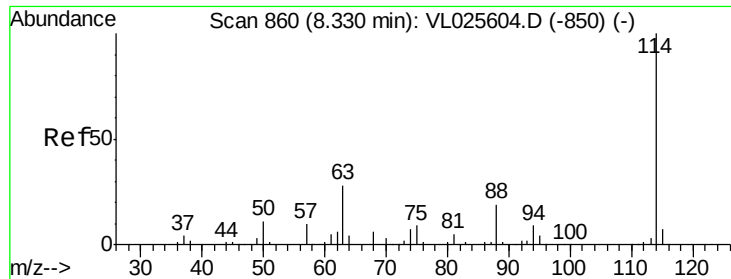
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#20
Methylene Chloride
Concen: 0.33 ppbv
RT: 5.16 min Scan# 340
Delta R.T. 0.01 min
Lab File: VL025615.D
Acq: 7 Jul 2015 19:59

Tgt Ion: 84 Resp: 15492
Ion Ratio Lower Upper
84 100
49 224.5 115.2 172.8#
51 295.7 35.0 52.6#
86 52.1 50.6 76.0





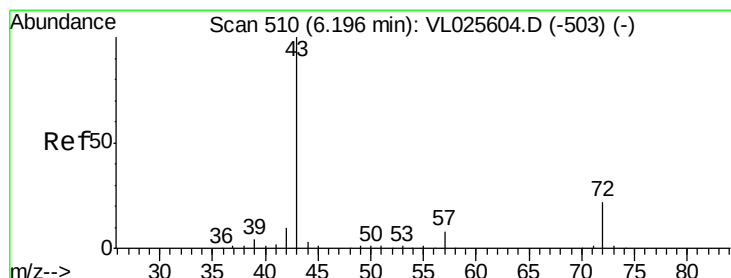
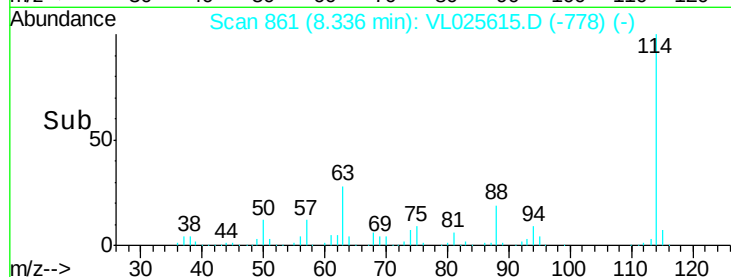
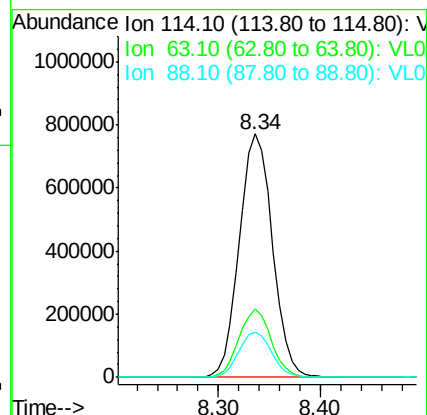
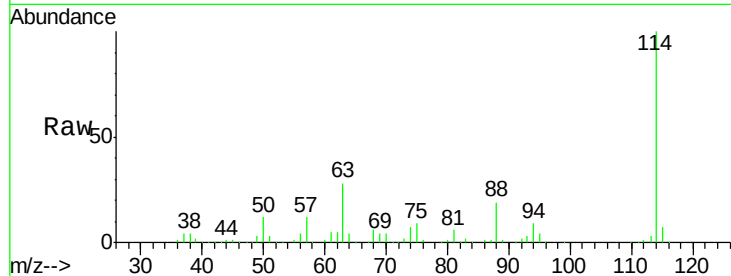
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.34 min Scan# 861
 Delta R.T. 0.01 min
 Lab File: VL025615.D
 Acq: 7 Jul 2015 19:59

Instrument :
 MSVOA_L
 ClientSampleId :
 DIN46-EFFLUENT-070115

Tot Ion:114 Resp: 1739513
 Ion Ratio Lower Upper
 114 100
 63 27.5 22.4 33.6
 88 18.5 15.0 22.4

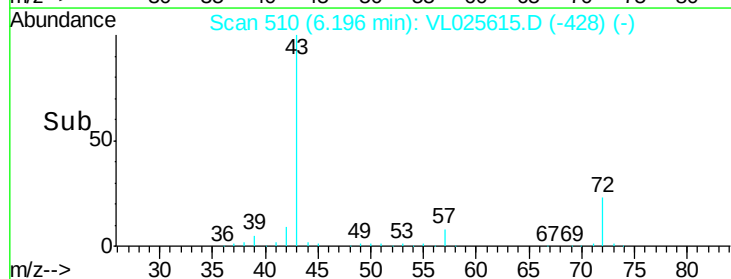
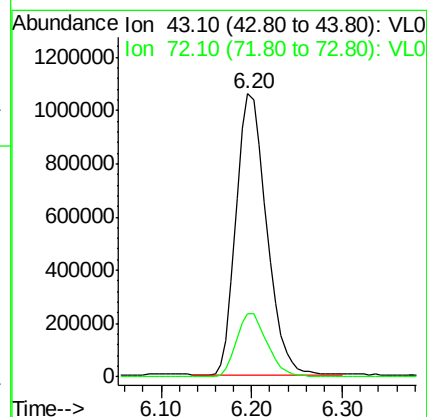
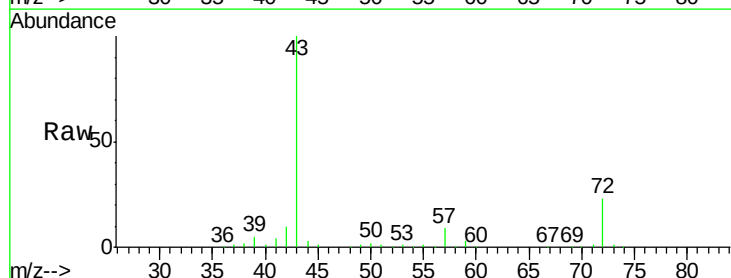
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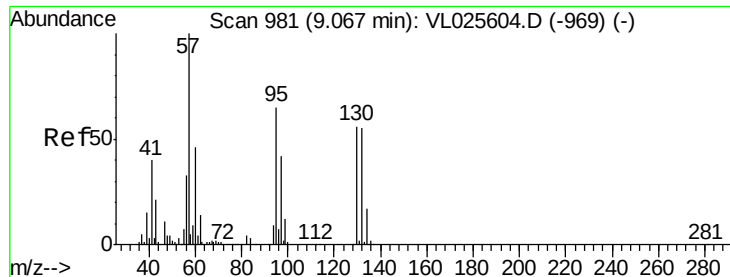
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#34
 2-Butanone
 Concen: 25.17 ppbv
 RT: 6.20 min Scan# 510
 Delta R.T. -0.00 min
 Lab File: VL025615.D
 Acq: 7 Jul 2015 19:59

Tgt Ion: 43 Resp: 2484585
 Ion Ratio Lower Upper
 43 100
 72 22.7 18.6 28.0





#38

Trichloroethene

Concen: 0.21 ppbv

RT: 9.07 min Scan# 982

Delta R.T. 0.01 min

Lab File: VL025615.D

Acq: 7 Jul 2015 19:59

Instrument :

MSVOA_L

ClientSampleId :

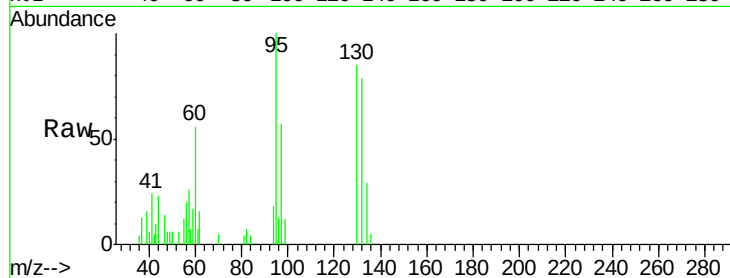
DIN46-EFFLUENT-070115

Tot Ion:	130	Resp:	16082
Ion Ratio	Lower	Upper	
130	100		
95	117.1	94.2	141.4
132	92.4	78.6	118.0
97	66.3	60.6	90.8

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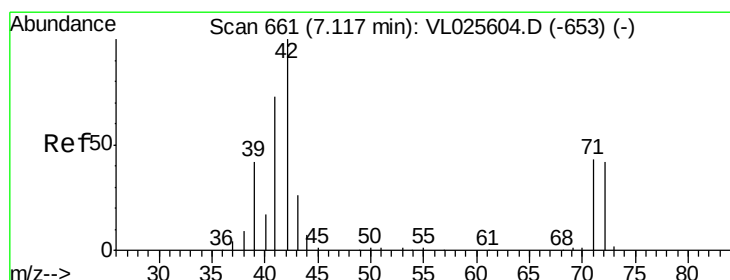
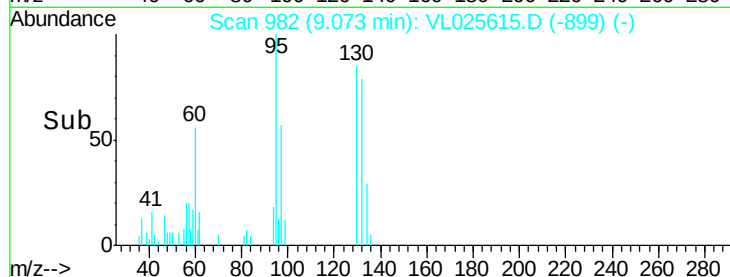
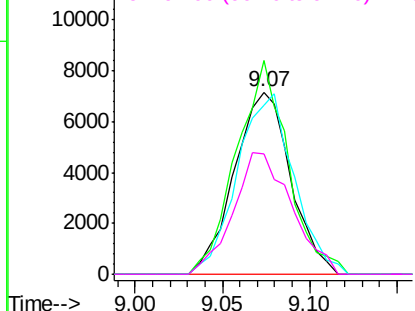


Abundance Ion 130.00 (129.70 to 130.70): V

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



#41

Tetrahydrofuran

Concen: 12.44 ppbv

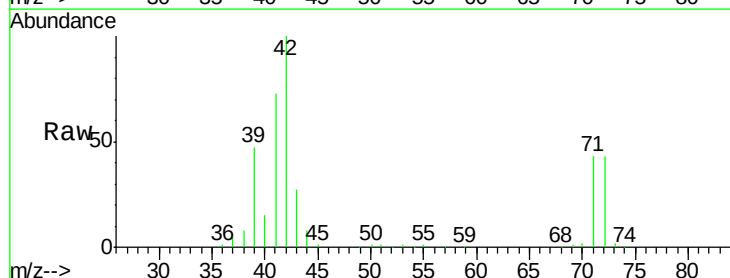
RT: 7.12 min Scan# 661

Delta R.T. -0.00 min

Lab File: VL025615.D

Acq: 7 Jul 2015 19:59

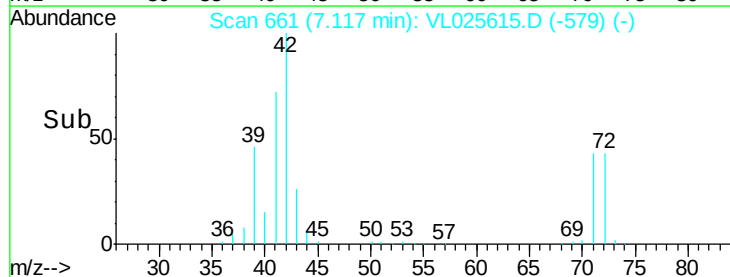
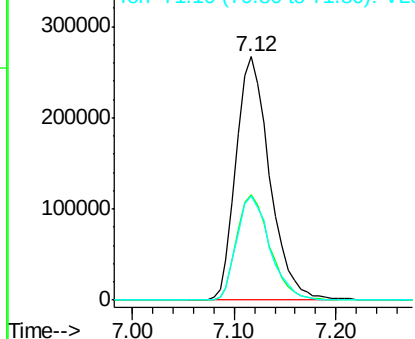
Tgt Ion:	42	Resp:	613028
Ion Ratio	Lower	Upper	
42	100		
72	43.0	34.0	51.0
71	42.2	33.0	49.6

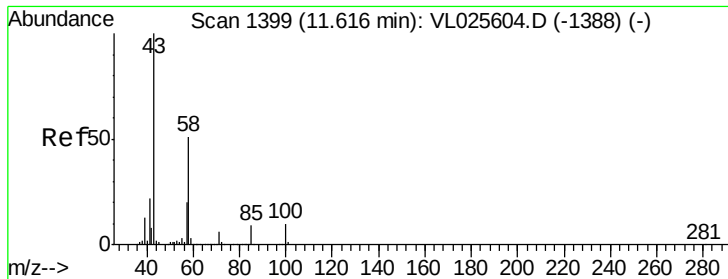


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





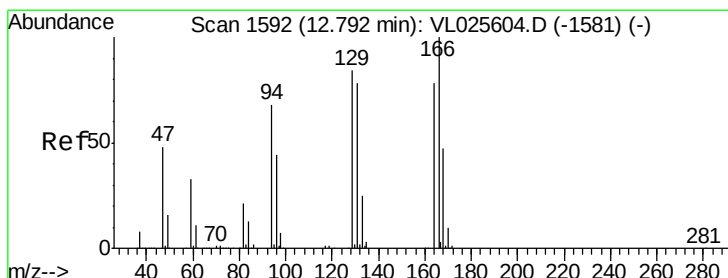
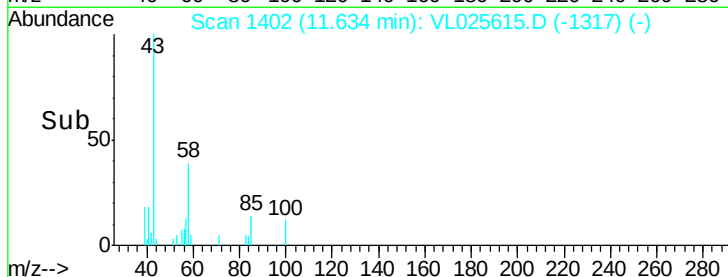
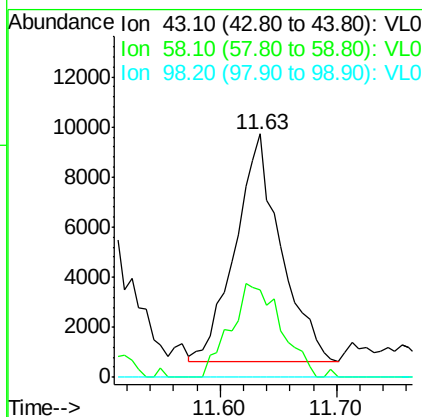
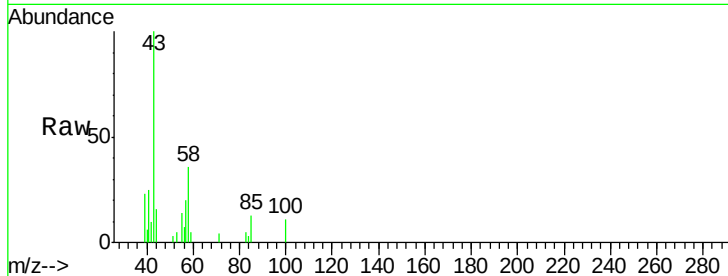
#51
 2-Hexanone
 Concen: 0.19 ppbv
 RT: 11.63 min Scan# 1402
 Delta R.T. 0.02 min
 Lab File: VL025615.D
 Acq: 7 Jul 2015 19:59

Instrument :
 MSVOA_L
 ClientSampleId :
 DIN46-EFFLUENT-070115

Tot Ion	Ratio	Lower	Upper
43	100		
58	45.7	39.0	58.6
98	0.0	0.2	0.4#

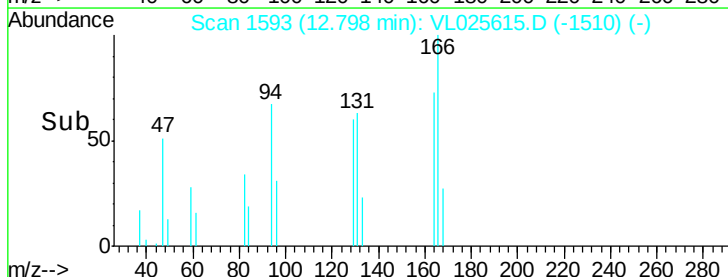
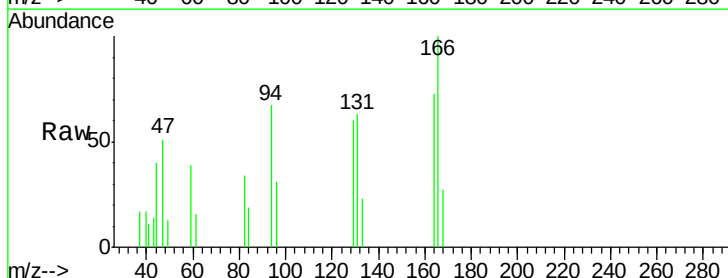
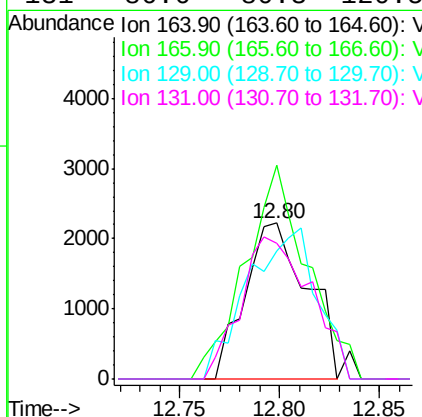
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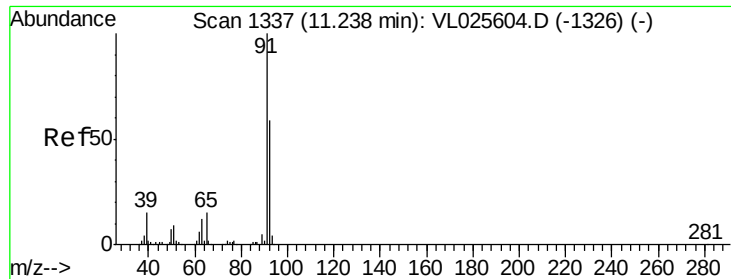
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#52
 Tetrachloroethene
 Concen: 0.06 ppbv m
 RT: 12.80 min Scan# 1593
 Delta R.T. 0.01 min
 Lab File: VL025615.D
 Acq: 7 Jul 2015 19:59

Tgt Ion	Ratio	Lower	Upper
164	100		
166	137.0	102.3	153.5
129	82.0	86.2	129.4#
131	86.6	80.3	120.5





#53

Toluene

Concen: 0.11 ppbv

RT: 11.24 min Scan# 1338

Delta R.T. 0.01 min

Lab File: VL025615.D

Acq: 7 Jul 2015 19:59

Instrument :

MSVOA_L

ClientSampleId :

DIN46-EFFLUENT-070115

Tot Ion: 91 Resp: 25298

Ion Ratio Lower Upper

91 100

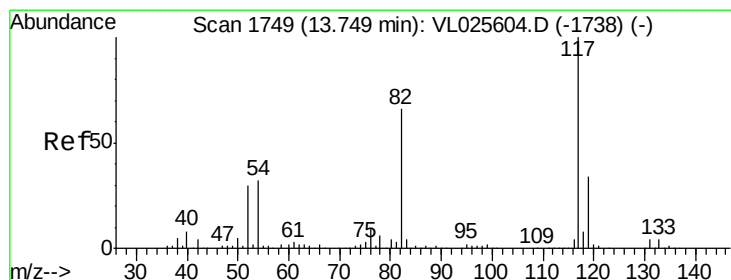
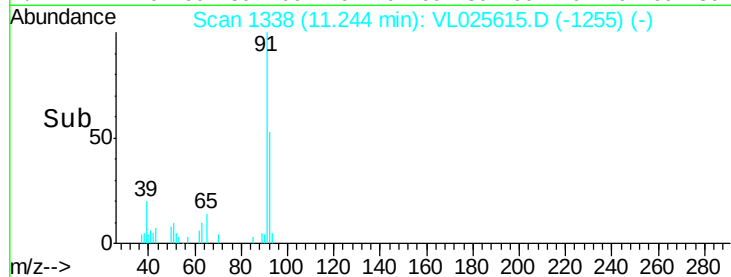
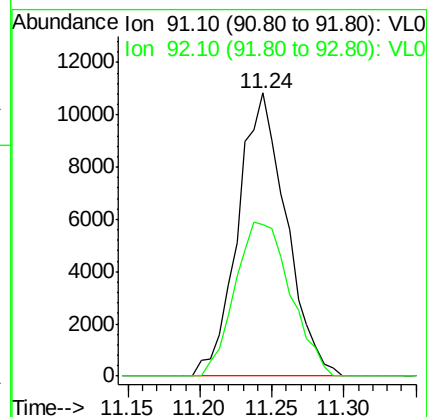
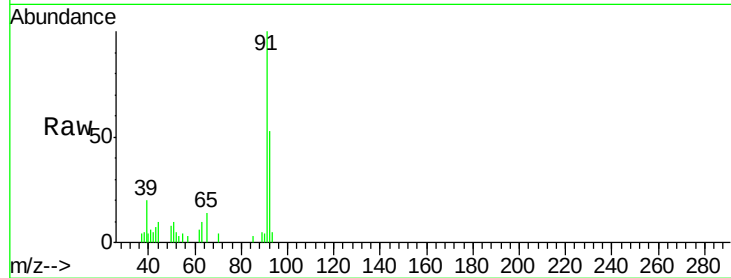
92 62.3 48.2 72.2

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#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.75 min Scan# 1749

Delta R.T. -0.00 min

Lab File: VL025615.D

Acq: 7 Jul 2015 19:59

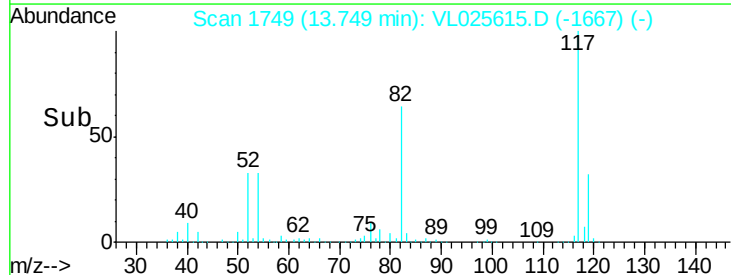
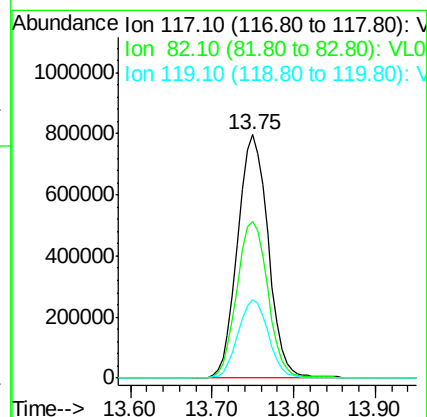
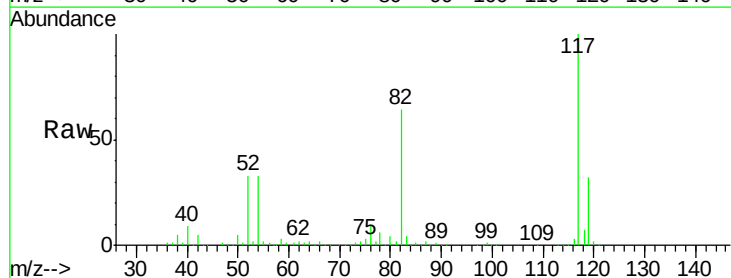
Tgt Ion: 117 Resp: 2075837

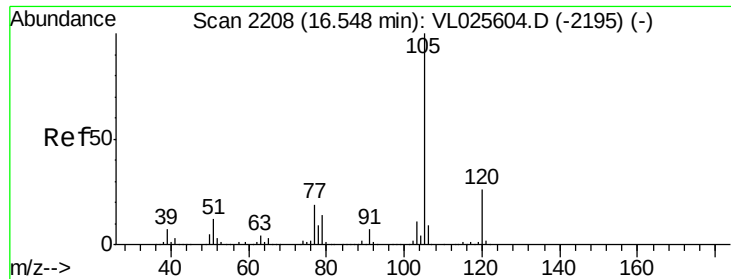
Ion Ratio Lower Upper

117 100

82 65.7 50.5 75.7

119 32.2 45.1 67.7#





#62

Isopropylbenzene

Concen: 0.10 ppbv

RT: 16.55 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VL025615.D

Acq: 7 Jul 2015 19:59

Instrument :

MSVOA_L

ClientSampleId :

DIN46-EFFLUENT-070115

Tot Ion: 105 Resp: 41023

Ion Ratio Lower Upper

105 100

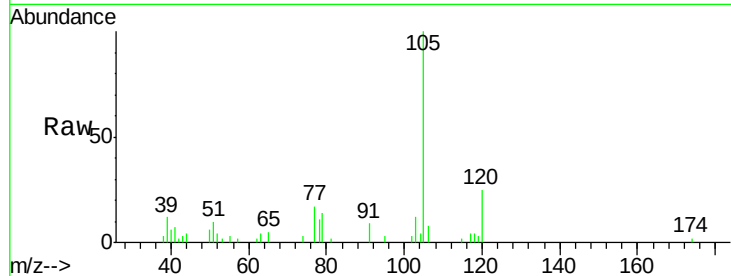
120 25.5 20.6 31.0

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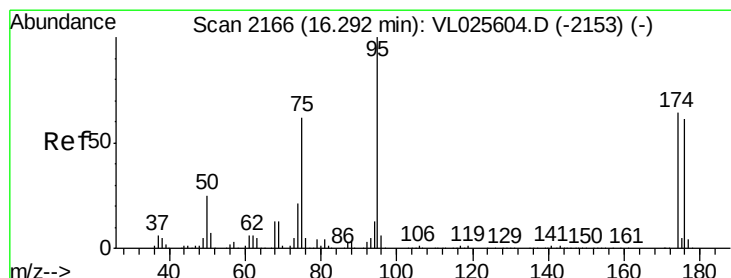
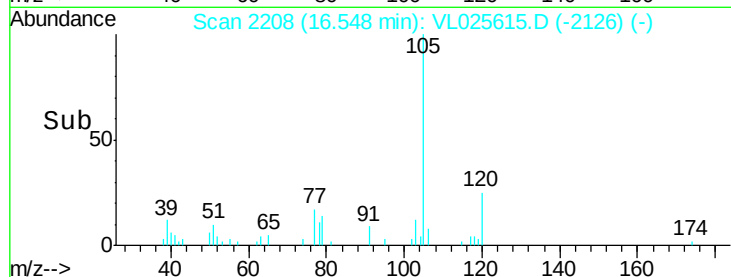
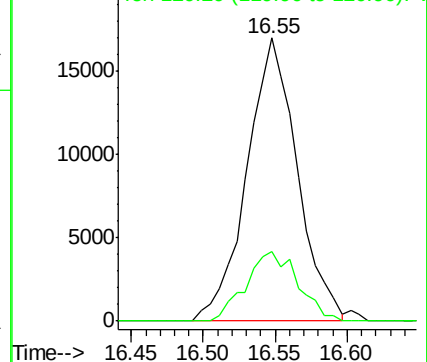
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.13 ppbv

RT: 16.29 min Scan# 2166

Delta R.T. -0.00 min

Lab File: VL025615.D

Acq: 7 Jul 2015 19:59

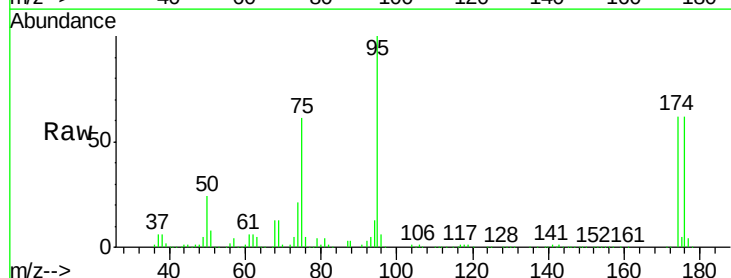
Tgt Ion: 95 Resp: 1773185

Ion Ratio Lower Upper

95 100

174 64.4 52.0 78.0

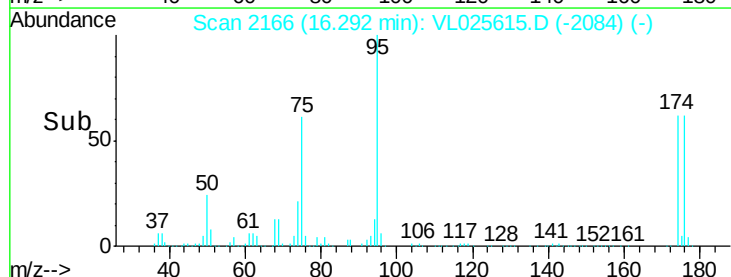
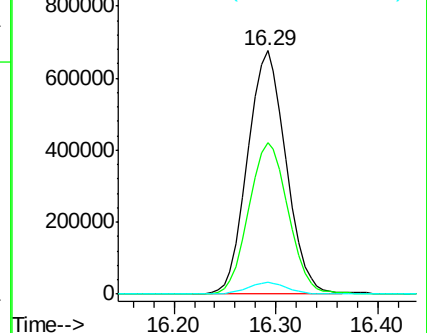
175 4.8 3.9 5.9

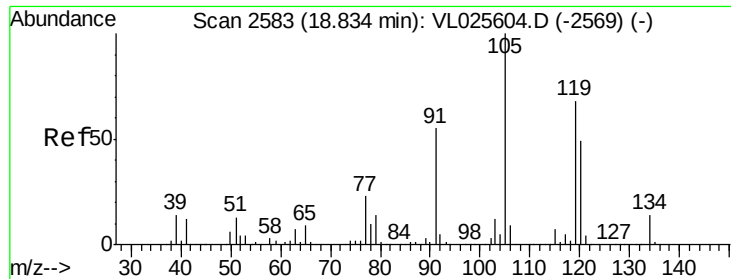


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





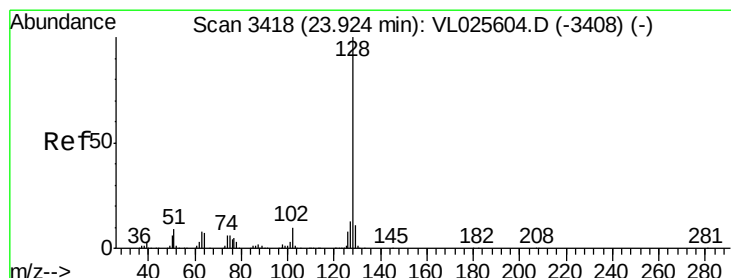
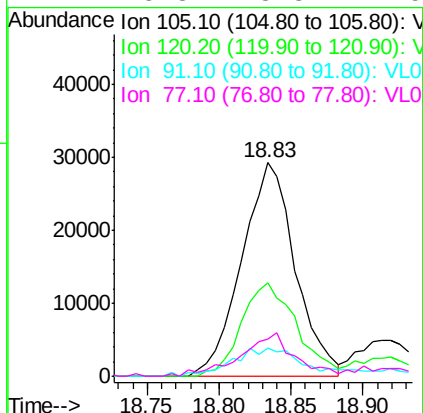
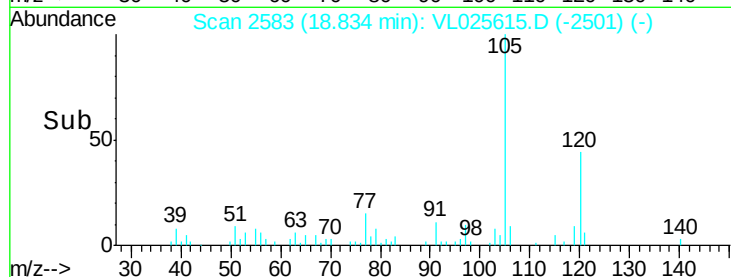
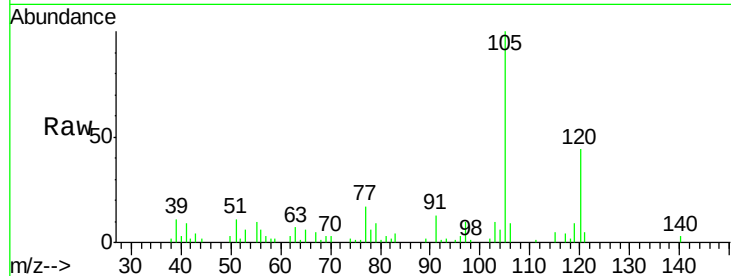
#74
 1,2,4-Trimethylbenzene
 Concen: 0.19 ppbv
 RT: 18.83 min Scan# 2583
 Delta R.T. -0.00 min
 Lab File: VL025615.D
 Acq: 7 Jul 2015 19:59

Instrument :
 MSVOA_L
 ClientSampleId :
 DIN46-EFFLUENT-070115

Tot Ion	Ratio	Lower	Upper
105	100		
120	43.7	39.3	58.9
91	11.5	43.8	65.6#
77	15.8	18.3	27.5#

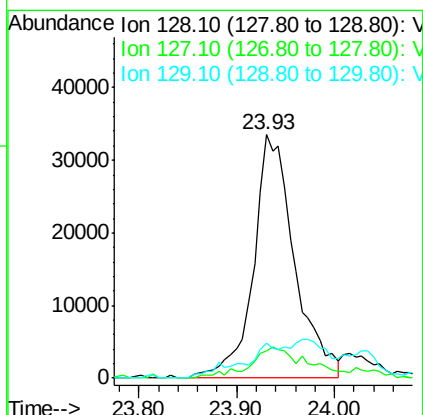
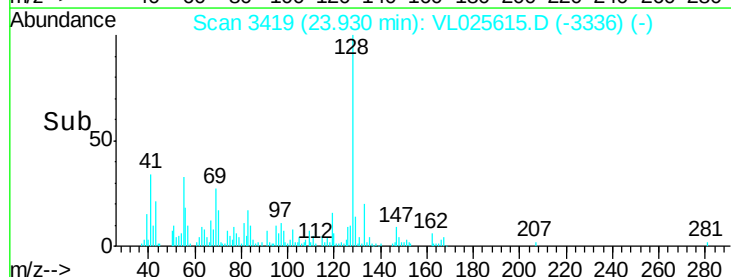
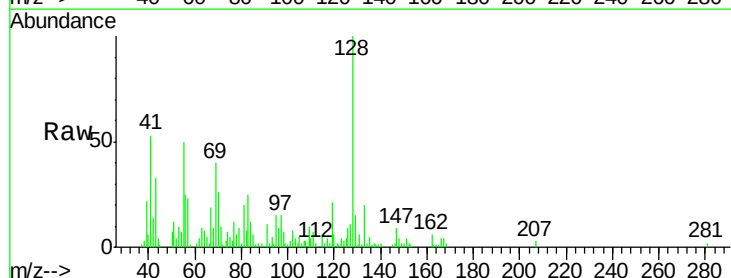
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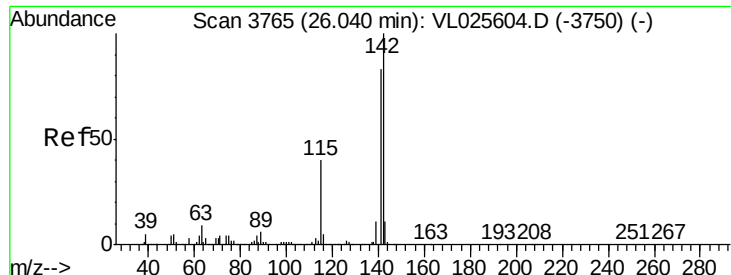
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#79
 Naphthalene
 Concen: 0.26 ppbv
 RT: 23.93 min Scan# 3419
 Delta R.T. 0.01 min
 Lab File: VL025615.D
 Acq: 7 Jul 2015 19:59

Tgt Ion	Ratio	Lower	Upper
128	100		
127	11.4	10.8	16.2
129	14.6	9.0	13.4#





#80
 Naphthalene, 2-methyl-
 Concen: 0.25 ppbv
 RT: 26.05 min Scan# 3767
 Delta R.T. 0.01 min
 Lab File: VL025615.D
 Acq: 7 Jul 2015 19:59

Instrument :
 MSVOA_L
 ClientSampleId :
 DIN46-EFFLUENT-070115

Tot Ion	Ratio	Lower	Upper
142	100		
141	77.7	67.1	100.7
115	49.2	33.9	50.9

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