

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL122017\
 Data File : VL031282.D
 Acq On : 20 Dec 2017 23:18
 Operator : SY/AP
 Sample : I7005-05DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EP1-SV-4DL

Manual Integrations
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 12/22/2017 4:54:58 PM

Quant Time: Dec 22 05:52:00 2017
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 14 2017
 QLast Update : Thu Dec 14 04:29:58 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.91	49	1615336	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	3768135	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.42	117	3601662	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	2832130	11.06	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.40	62	43328	0.42	ppbv	93
9) Propene	3.14	41	156871	1.74	ppbv	97
10) Heptane	8.41	43	52574	0.19	ppbv	94
13) Ethanol	3.79	45	23204m	0.89	ppbv	
15) Acetone	4.04	43	431088	2.02	ppbv #	57
17) tert-Butyl alcohol	4.53	59	18477m	0.15	ppbv	
20) Methylene Chloride	4.54	84	32490	0.46	ppbv	92
22) trans-1,2-Dichloroethene	5.11	96	129839	1.50	ppbv	99
26) Hexane	5.93	57	52518	0.25	ppbv #	12
29) Chloroform	6.00	83	34433	0.12	ppbv	97
31) cis-1,2-Dichloroethene	5.79	61	8264583	44.11	ppbv	94
34) 2-Butanone	5.48	43	1541145	5.79	ppbv	98
36) Benzene	7.17	78	160675m	0.40	ppbv	
38) Trichloroethene	8.13	130	3681060	23.63	ppbv	97
44) 2,2,4-Trimethylpentane	8.16	57	216683	0.36	ppbv #	89
51) 2-Hexanone	10.47	43	135261m	0.44	ppbv	
52) Tetrachloroethene	11.57	164	16122619	109.43	ppbv	94
53) Toluene	10.12	91	58948	0.14	ppbv	99

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

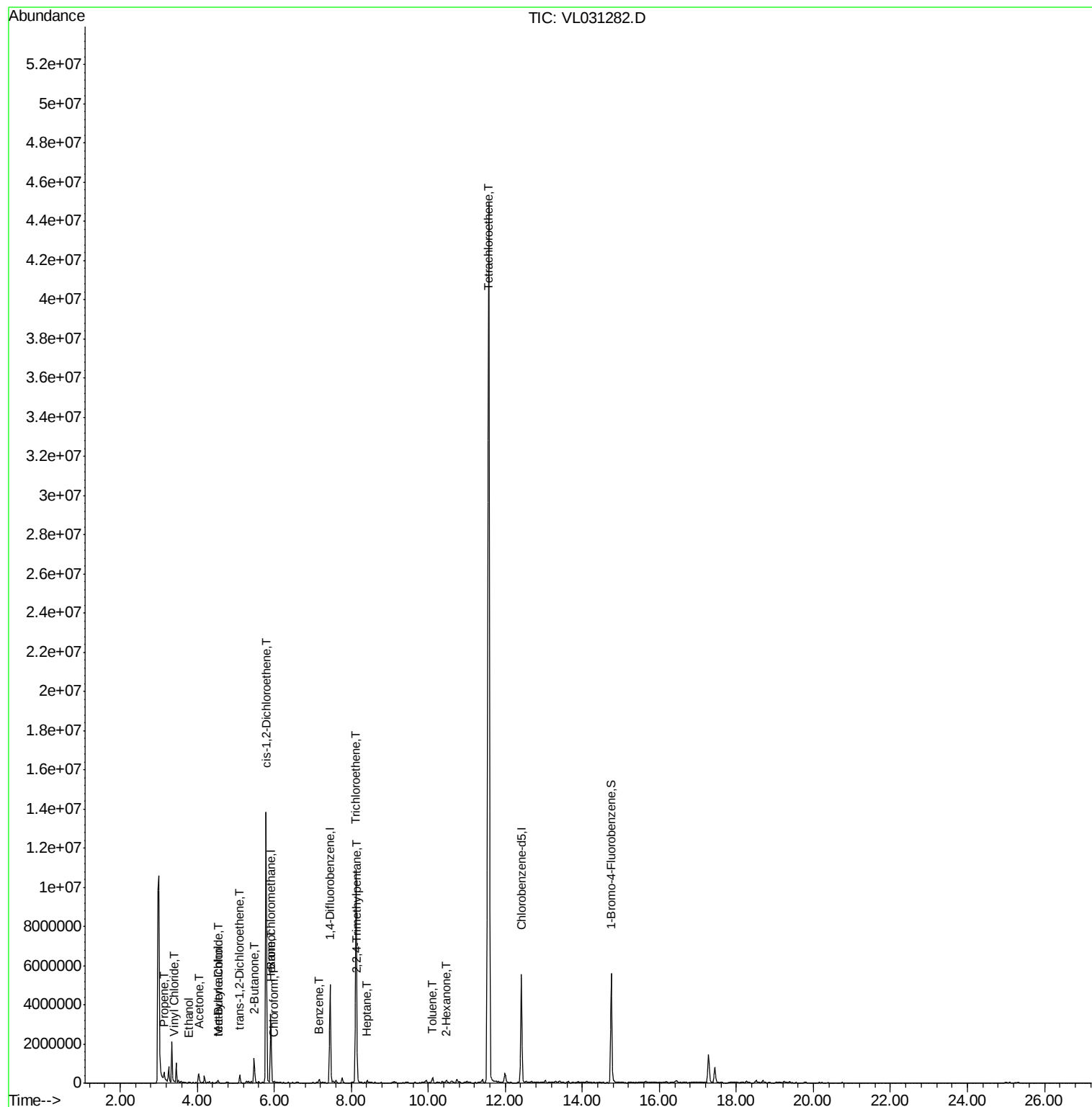
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL122017\
Data File : VL031282.D
Acq On : 20 Dec 2017 23:18
Operator : SY/AP
Sample : I7005-05DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

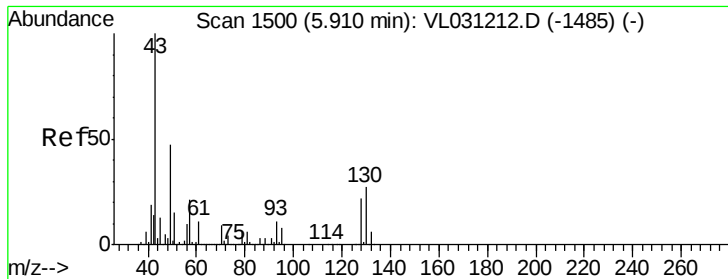
Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-4DL

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12/22/2017 4:54:58 PM

Quant Time: Dec 22 05:52:00 2017
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec
QLast Update : Thu Dec 14 04:29:58 2017
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.91 min Scan# 1500

Delta R.T. 0.00 min

Lab File: VL031282.D

Acq: 20 Dec 2017 23:18

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-4DL

Tot Ion: 49 Resp: 1615336

Ion Ratio Lower Upper

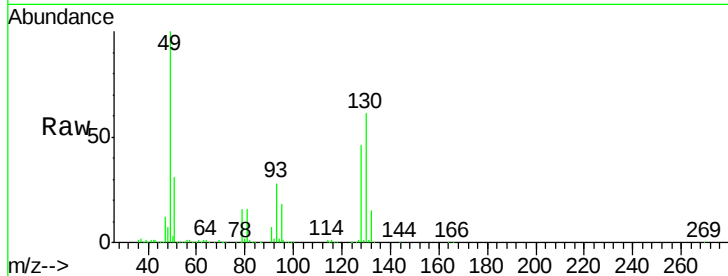
49 100

128 47.8 23.2 69.5

130 61.1 29.6 88.8

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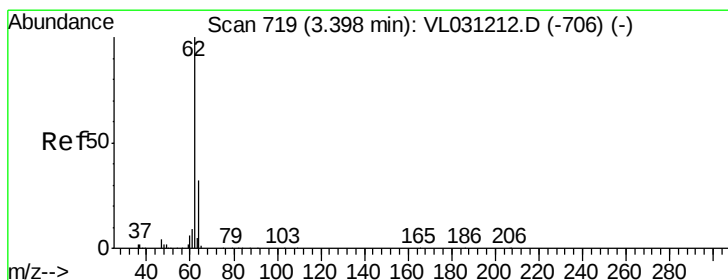
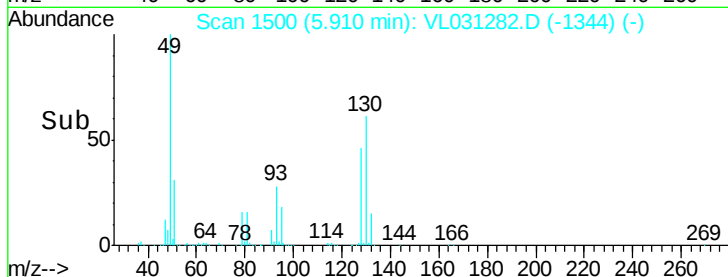
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.91

Time-->



#5

Vinyl Chloride

Concen: 0.42 ppbv

RT: 3.40 min Scan# 720

Delta R.T. 0.00 min

Lab File: VL031282.D

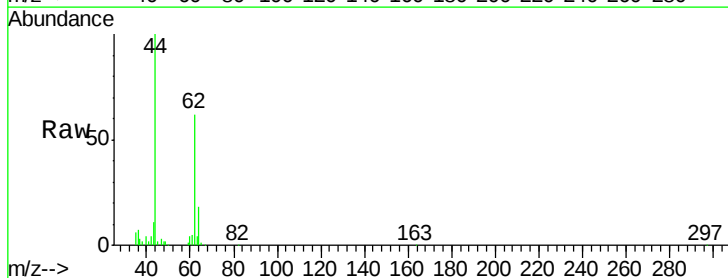
Acq: 20 Dec 2017 23:18

Tgt Ion: 62 Resp: 43328

Ion Ratio Lower Upper

62 100

64 28.4 25.9 38.9

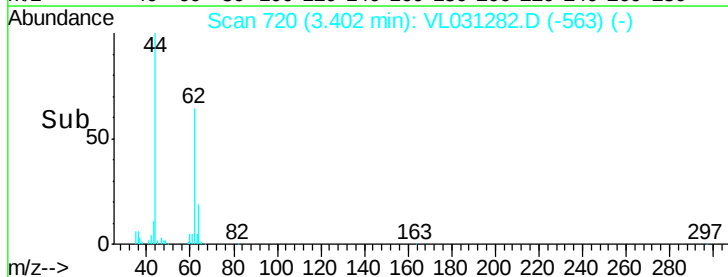


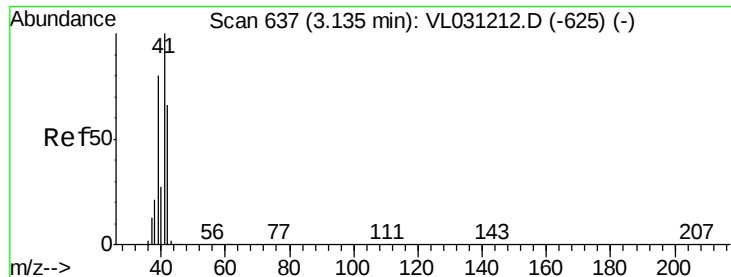
Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.40

Time-->





#9

Propene

Concen: 1.74 ppbv

RT: 3.14 min Scan# 639

Delta R.T. 0.01 min

Lab File: VL031282.D

Acq: 20 Dec 2017 23:18

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-4DL

Tot Ion: 41 Resp: 156871

Ion Ratio Lower Upper

41 100

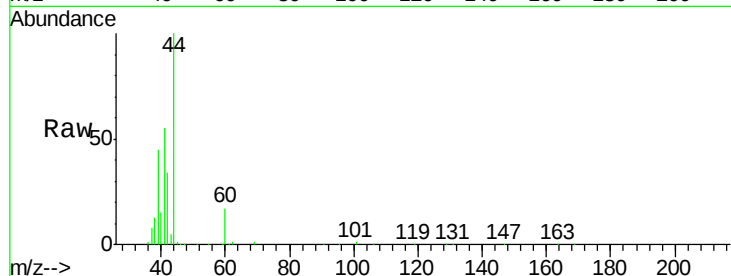
42 65.9 54.3 81.5

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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.14

120000

100000

80000

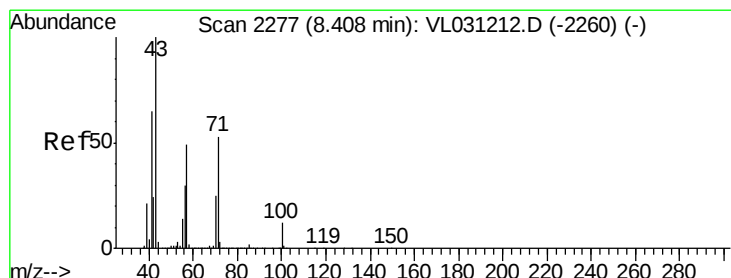
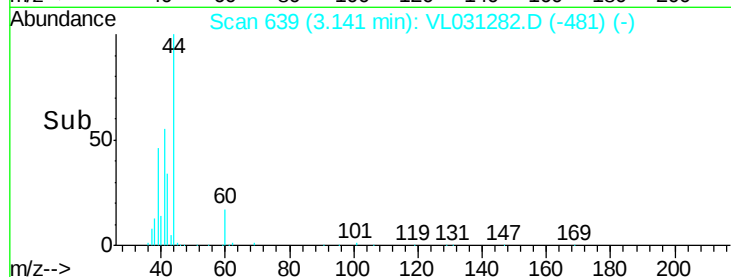
60000

40000

20000

0

Time-->



#10

Heptane

Concen: 0.19 ppbv

RT: 8.41 min Scan# 2278

Delta R.T. 0.00 min

Lab File: VL031282.D

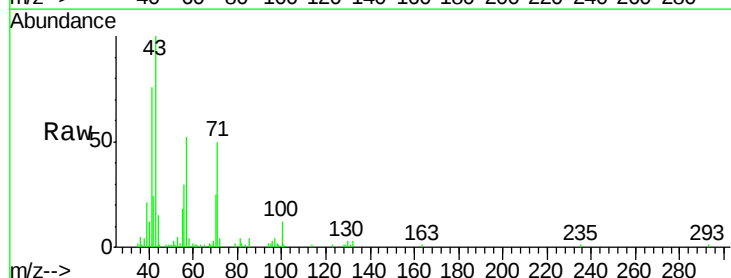
Acq: 20 Dec 2017 23:18

Tgt Ion: 43 Resp: 52574

Ion Ratio Lower Upper

43 100

57 54.1 39.8 59.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.41

30000

25000

20000

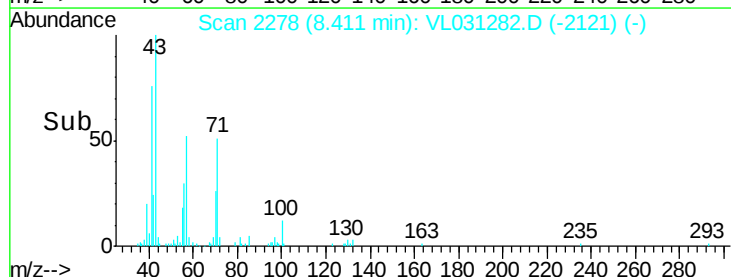
15000

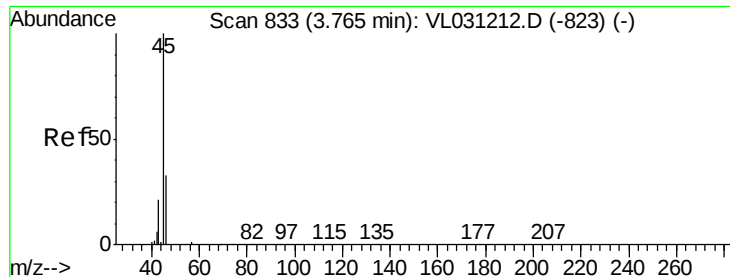
10000

5000

0

Time-->





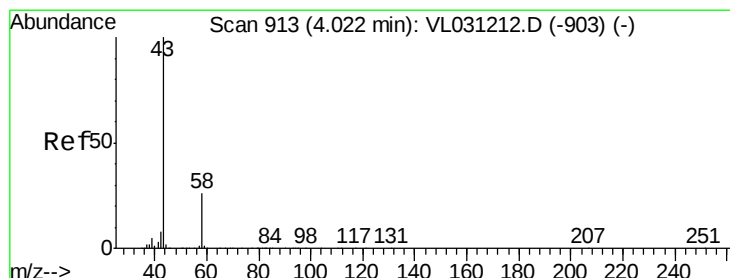
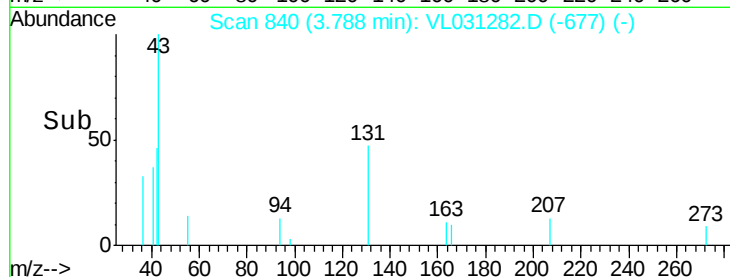
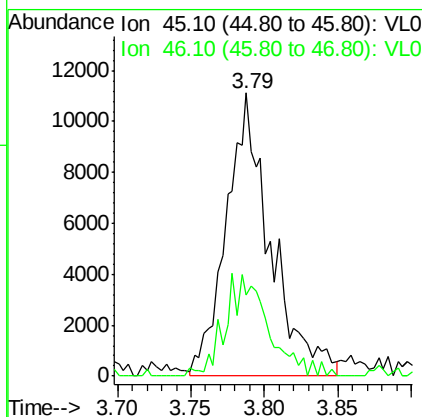
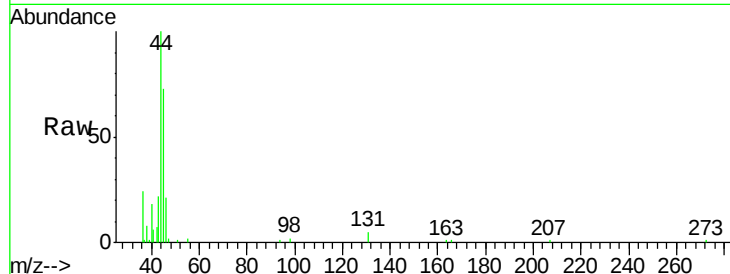
#13
Ethanol
Concen: 0.89 ppbv m
RT: 3.79 min Scan# 840
Delta R.T. 0.02 min
Lab File: VL031282.D
Acq: 20 Dec 2017 23:18

Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-4DL

Tot Ion	45.10	Resp	23204
Ion Ratio	Lower	Upper	
45	100		
46	35.2	14.6	58.4

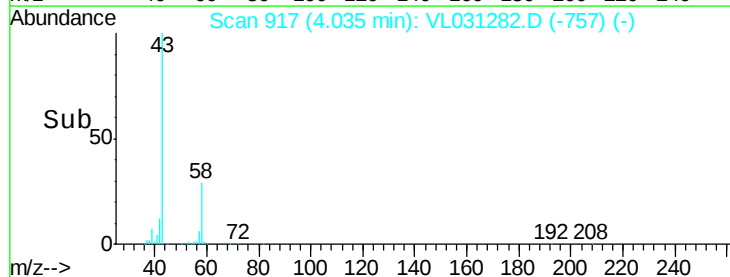
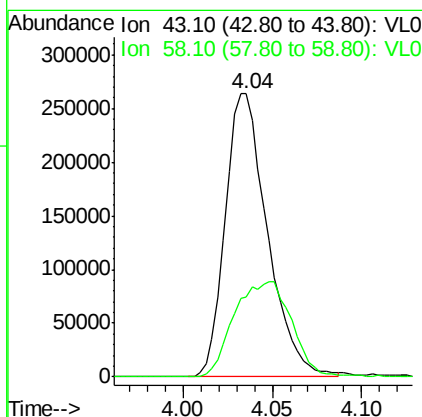
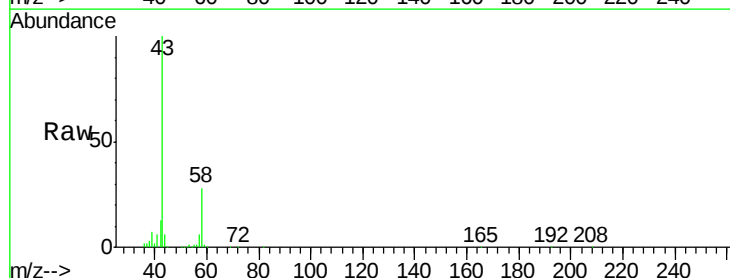
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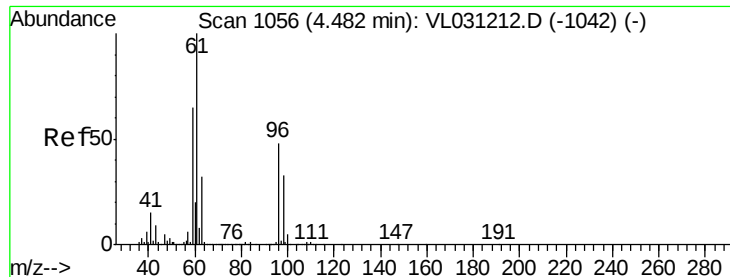
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#15
Acetone
Concen: 2.02 ppbv
RT: 4.04 min Scan# 917
Delta R.T. 0.01 min
Lab File: VL031282.D
Acq: 20 Dec 2017 23:18

Tgt Ion	43	Resp	431088
Ion Ratio	Lower	Upper	
43	100		
58	46.9	20.3	30.5#





#17

tert-Butyl alcohol

Concen: 0.15 ppbv m

RT: 4.53 min Scan# 1072

Delta R.T. 0.05 min

Lab File: VL031282.D

Acq: 20 Dec 2017 23:18

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-4DL

Tot Ion: 59 Resp: 18477

Ion Ratio Lower Upper

59 100

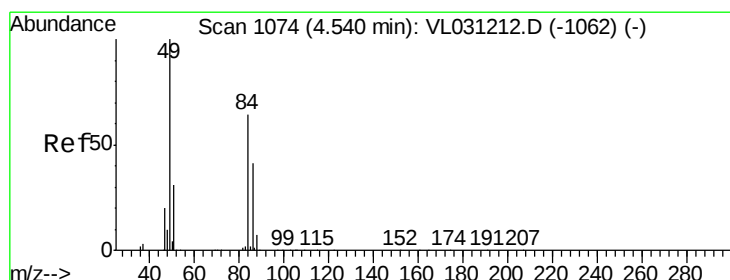
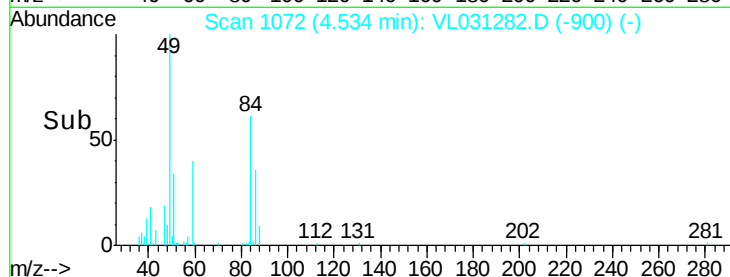
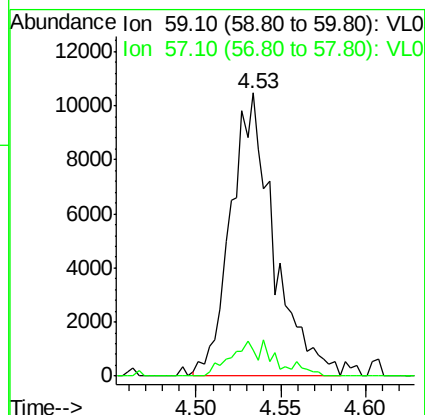
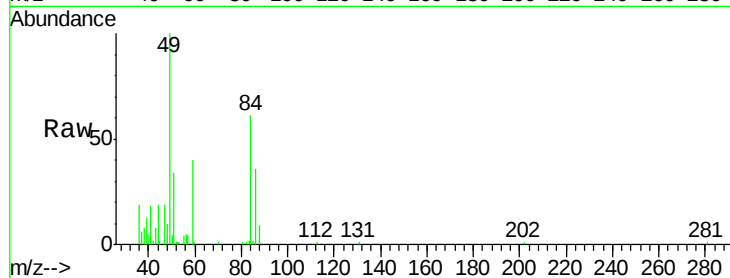
57 12.7 8.2 12.2#

Manual Integrations

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#20

Methylene Chloride

Concen: 0.46 ppbv

RT: 4.54 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VL031282.D

Acq: 20 Dec 2017 23:18

Tgt Ion: 84 Resp: 32490

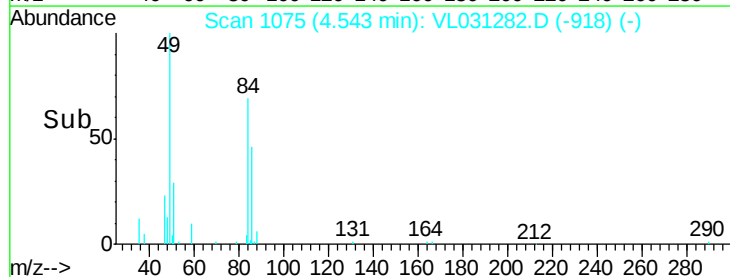
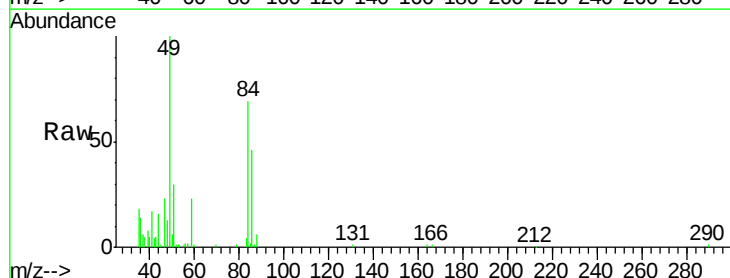
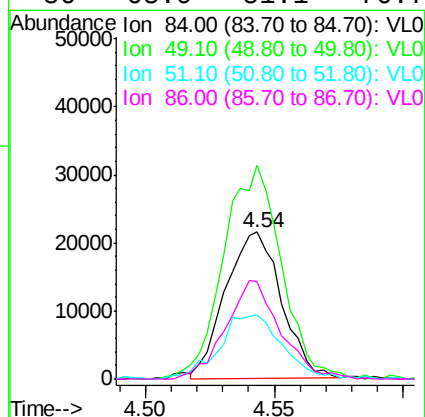
Ion Ratio Lower Upper

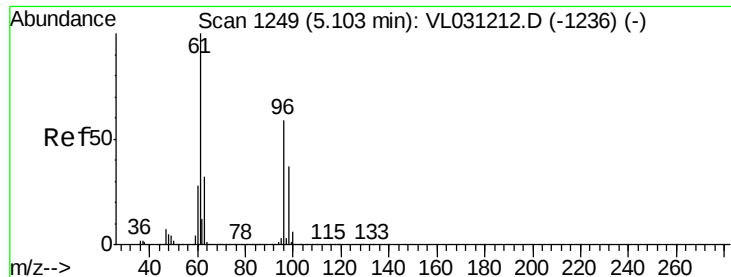
84 100

49 142.6 125.8 188.6

51 43.5 39.3 58.9

86 63.9 51.1 76.7





#22

trans-1,2-Dichloroethene

Concen: 1.50 ppbv

RT: 5.11 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VL031282.D

Acq: 20 Dec 2017 23:18

Instrument :

MSVOA_L

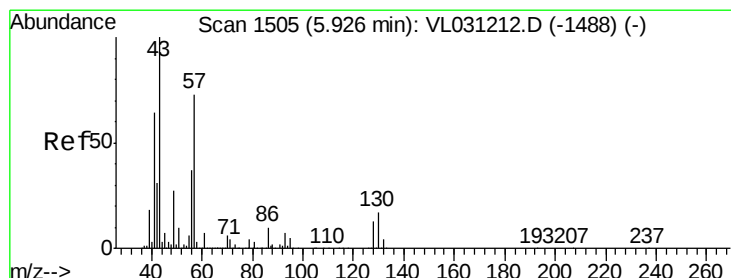
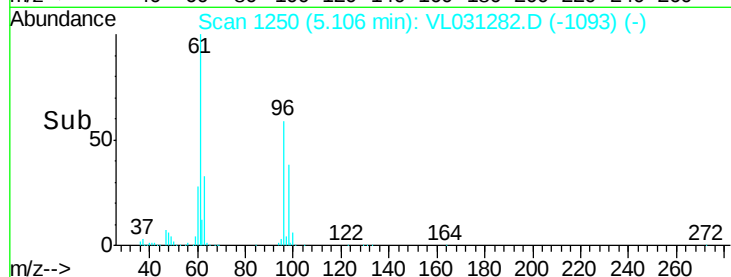
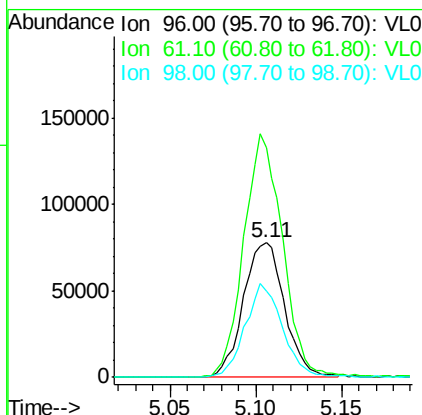
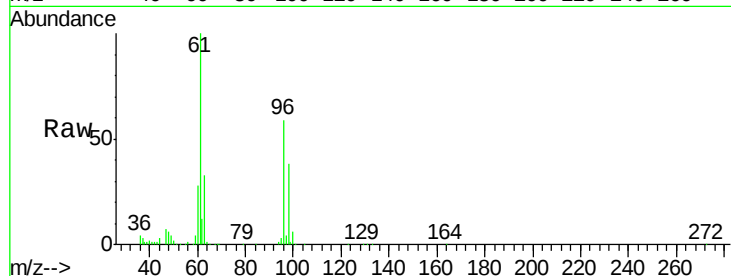
ClientSampleId :

EP1-SV-4DL

Tot Ion:	96	Resp:	129839
Ion Ratio	Lower	Upper	
96	100		
61	169.9	135.0	202.4
98	63.8	50.5	75.7

Manual Integrations
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#26

Hexane

Concen: 0.25 ppbv

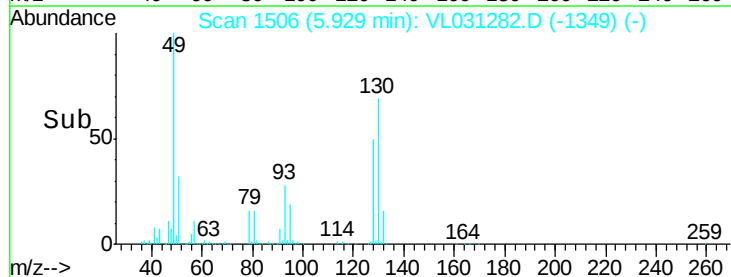
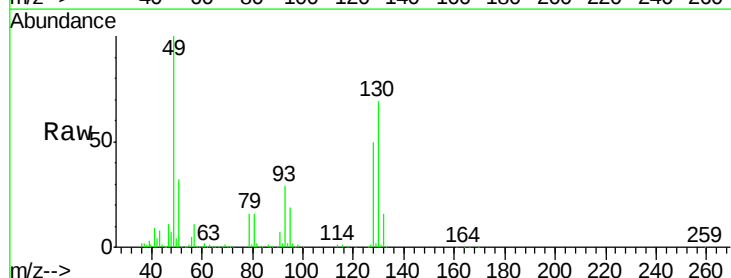
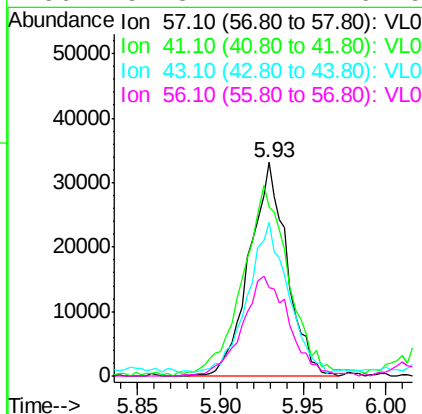
RT: 5.93 min Scan# 1506

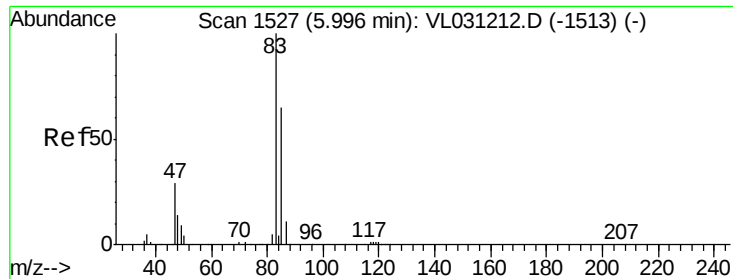
Delta R.T. 0.00 min

Lab File: VL031282.D

Acq: 20 Dec 2017 23:18

Tgt Ion:	57	Resp:	52518
Ion Ratio	Lower	Upper	
57	100		
41	105.2	70.3	105.5
43	0.0	173.8	260.8#
56	57.3	41.7	62.5





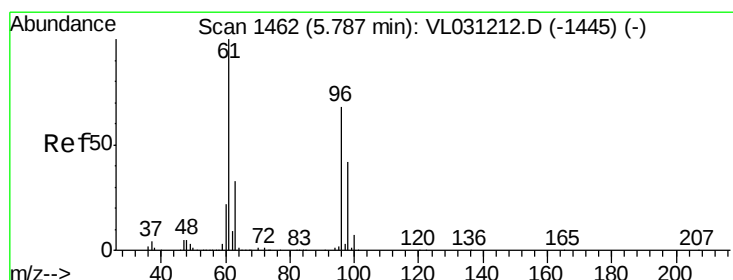
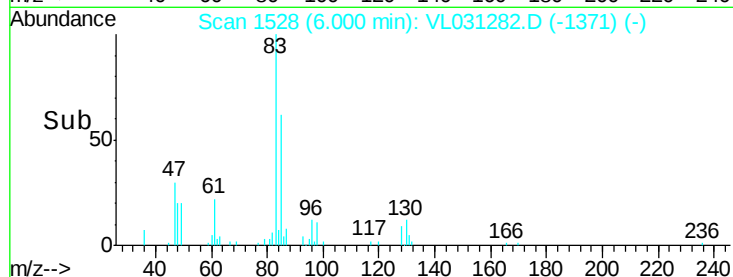
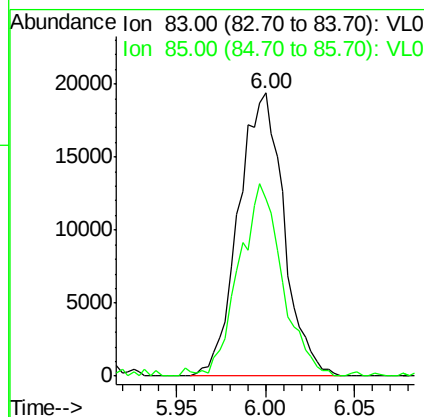
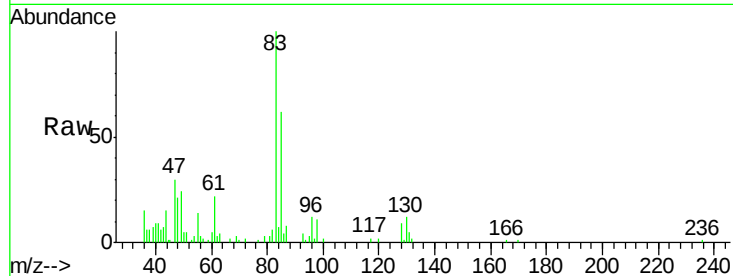
#29
Chloroform
Concen: 0.12 ppbv
RT: 6.00 min Scan# 1528
Delta R.T. 0.00 min
Lab File: VL031282.D
Acq: 20 Dec 2017 23:18

Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-4DL

Tot Ion: 83 Resp: 34433
Ion Ratio Lower Upper
83 100
85 62.4 51.8 77.6

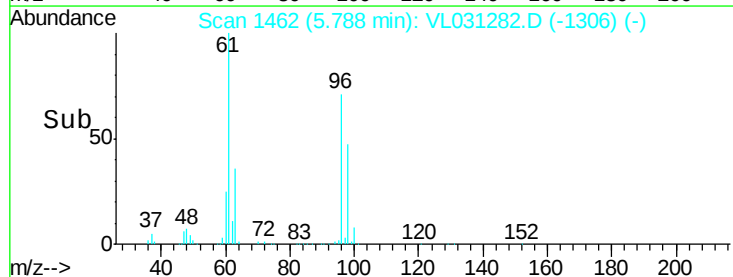
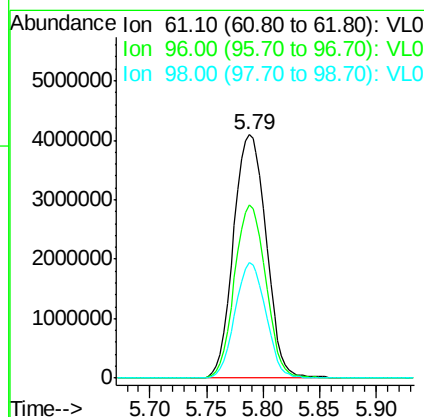
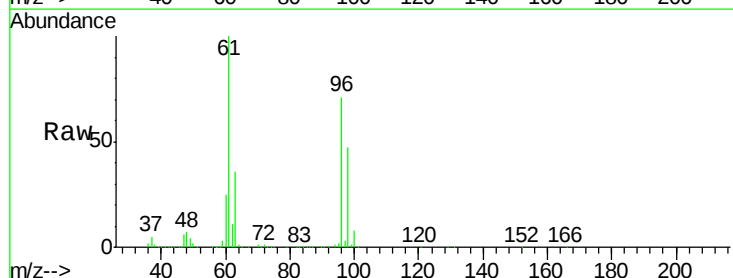
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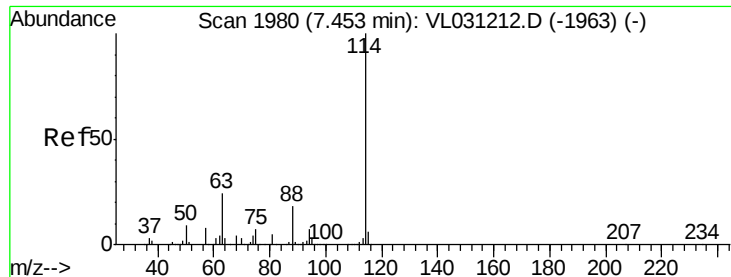
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#31
cis-1,2-Dichloroethene
Concen: 44.11 ppbv
RT: 5.79 min Scan# 1462
Delta R.T. 0.00 min
Lab File: VL031282.D
Acq: 20 Dec 2017 23:18

Tgt Ion: 61 Resp: 8264583
Ion Ratio Lower Upper
61 100
96 71.2 54.4 81.6
98 47.3 33.6 50.4





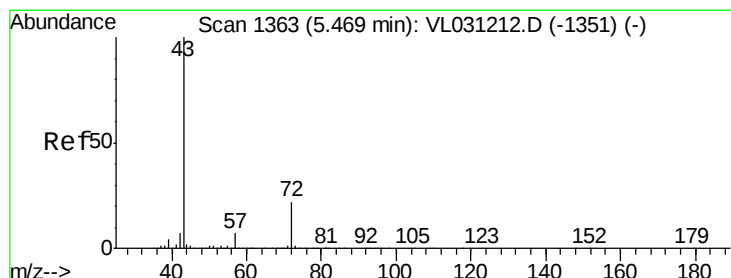
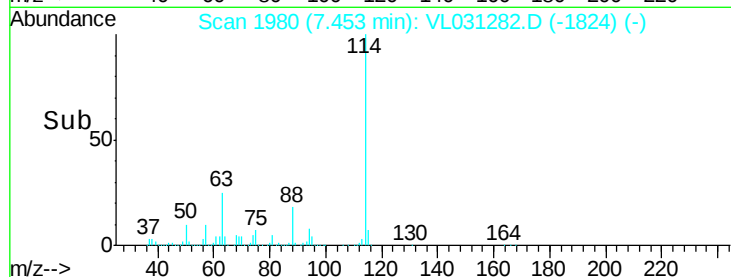
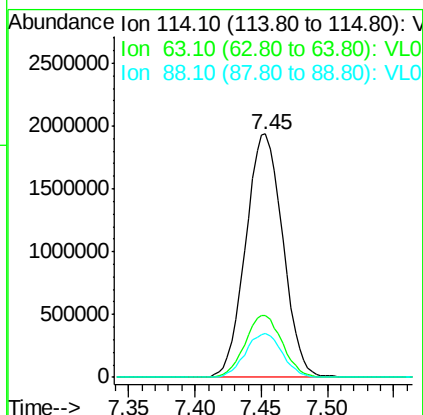
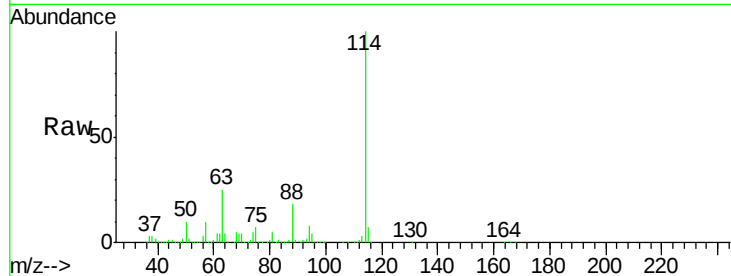
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.45 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VL031282.D
 Acq: 20 Dec 2017 23:18

Instrument :
 MSVOA_L
 ClientSampleId :
 EP1-SV-4DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.6	19.8	29.8
88	17.9	14.2	21.4

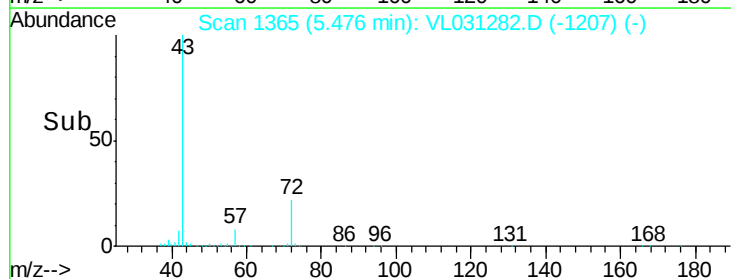
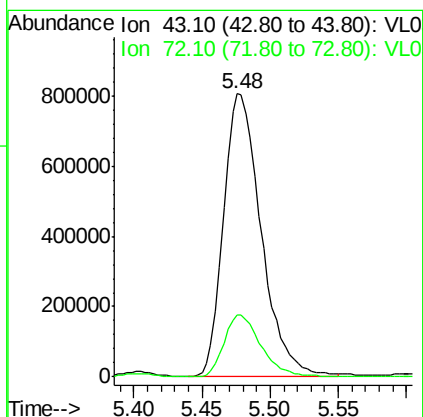
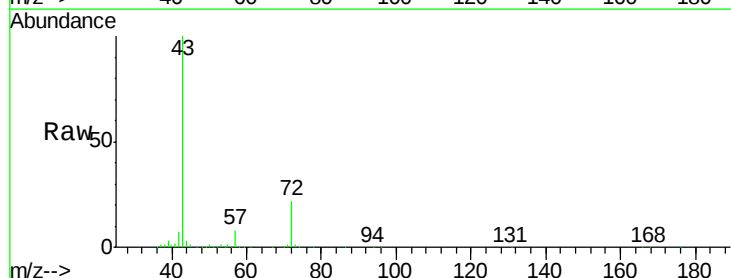
Manual Integrations
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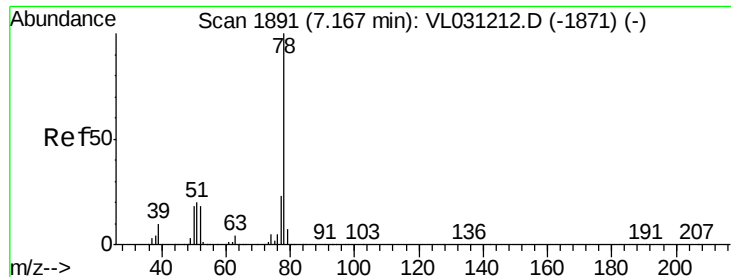
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#34
 2-Butanone
 Concen: 5.79 ppbv
 RT: 5.48 min Scan# 1365
 Delta R.T. 0.01 min
 Lab File: VL031282.D
 Acq: 20 Dec 2017 23:18

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.8	18.1	27.1





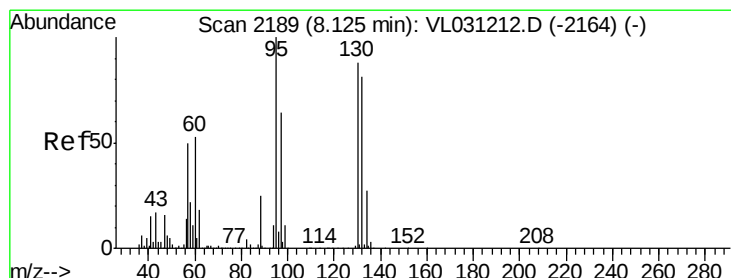
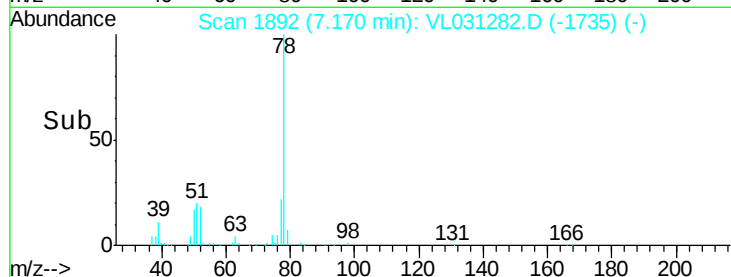
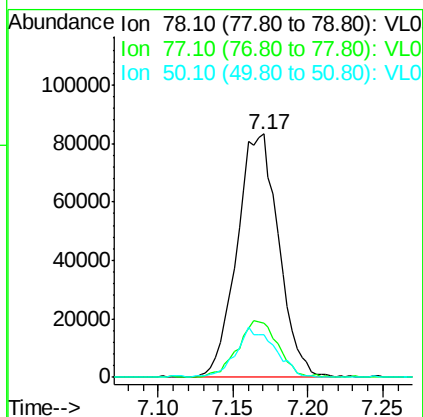
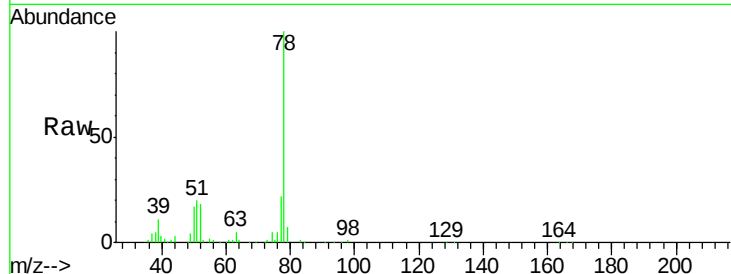
#36
Benzene
Concen: 0.40 ppbv m
RT: 7.17 min Scan# 1892
Delta R.T. 0.00 min
Lab File: VL031282.D
Acq: 20 Dec 2017 23:18

Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-4DL

Tot Ion	Ratio	Lower	Upper
78	100		
77	22.3	18.1	27.1
50	17.4	14.6	21.8

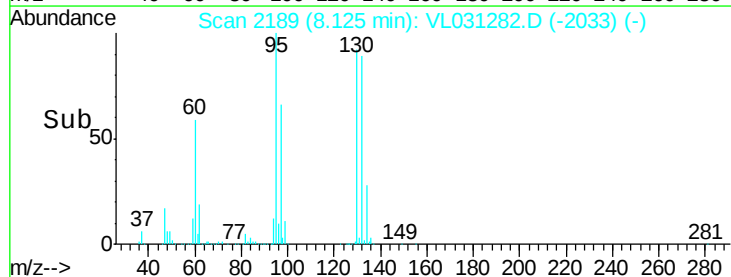
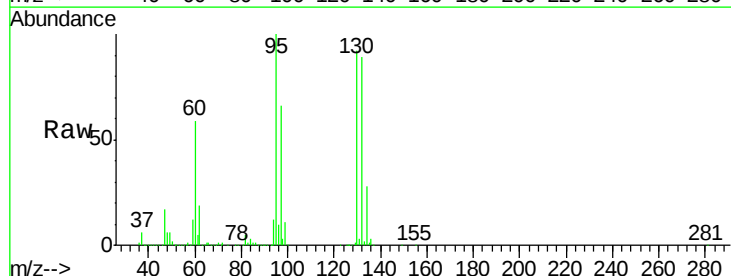
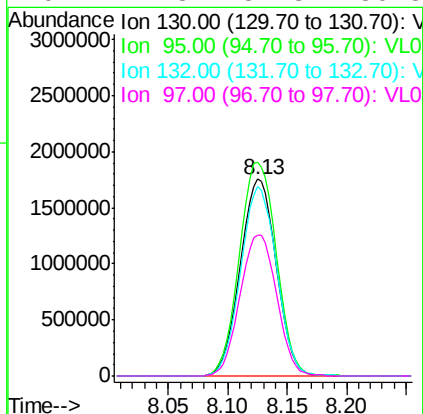
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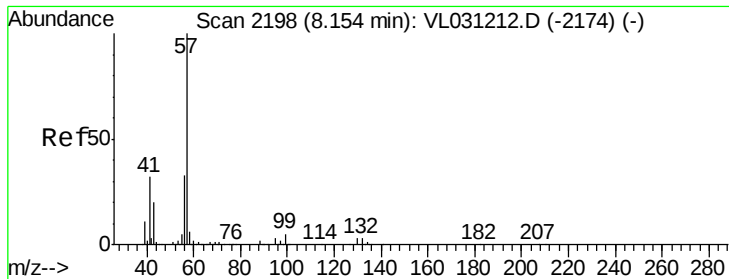
MMDadoda
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#38
Trichloroethene
Concen: 23.63 ppbv
RT: 8.13 min Scan# 2189
Delta R.T. 0.00 min
Lab File: VL031282.D
Acq: 20 Dec 2017 23:18

Tgt Ion	Ratio	Lower	Upper
130	100		
95	108.4	90.6	135.8
132	96.1	73.5	110.3
97	71.8	57.8	86.8





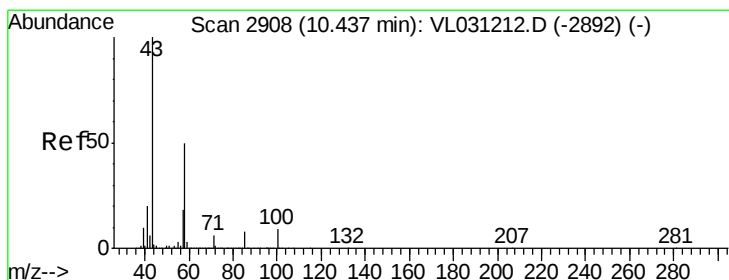
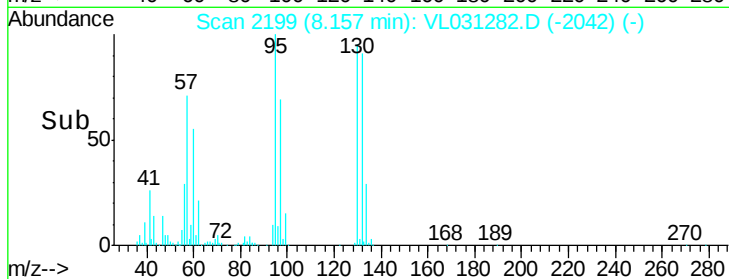
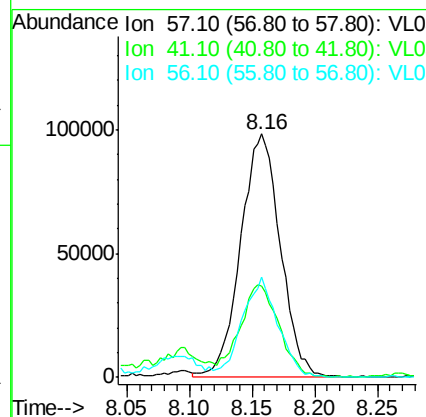
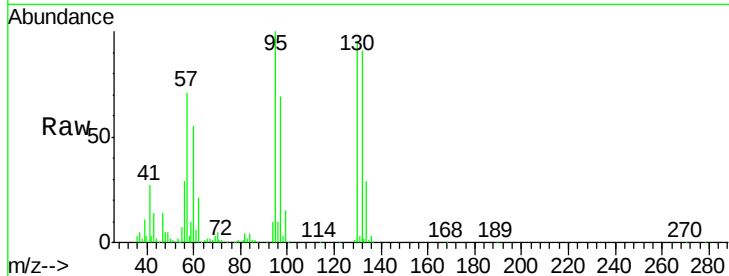
#44
 2,2,4-Trimethylpentane
 Concen: 0.36 ppbv
 RT: 8.16 min Scan# 2199
 Delta R.T. 0.00 min
 Lab File: VL031282.D
 Acq: 20 Dec 2017 23:18

Instrument :
 MSVOA_L
 ClientSampled :
 EP1-SV-4DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	38.8	25.5	38.3#
56	36.4	25.0	37.6

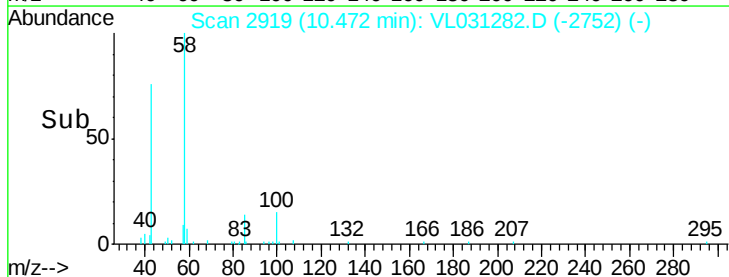
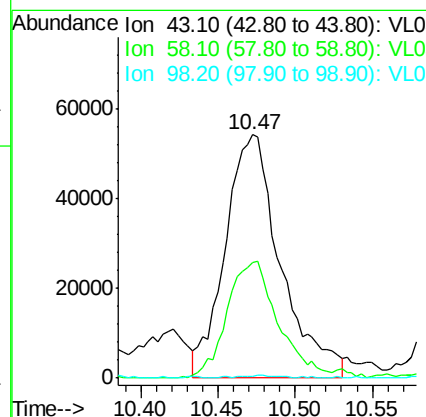
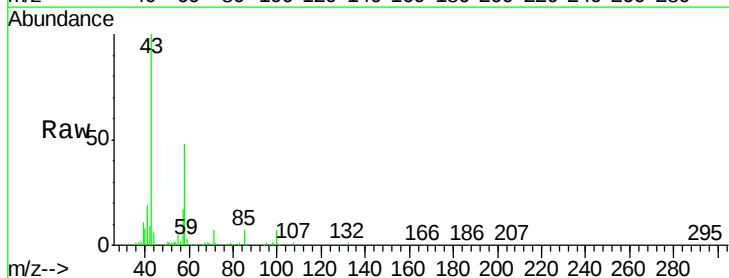
Manual Integrations
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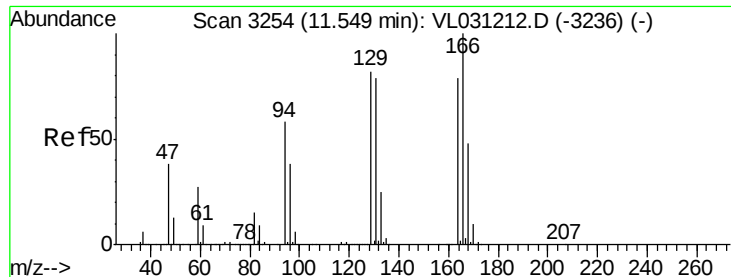
MMDadoda
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#51
 2-Hexanone
 Concen: 0.44 ppbv m
 RT: 10.47 min Scan# 2919
 Delta R.T. 0.04 min
 Lab File: VL031282.D
 Acq: 20 Dec 2017 23:18

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	39.8	59.6#
98	0.3	0.0	0.0#





#52

Tetrachloroethene

Concen: 109.43 ppbv

RT: 11.57 min Scan# 3261

Delta R.T. 0.02 min

Lab File: VL031282.D

Acq: 20 Dec 2017 23:18

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-4DL

Tot Ion:164 Resp:16122619

Ion Ratio Lower Upper

164 100

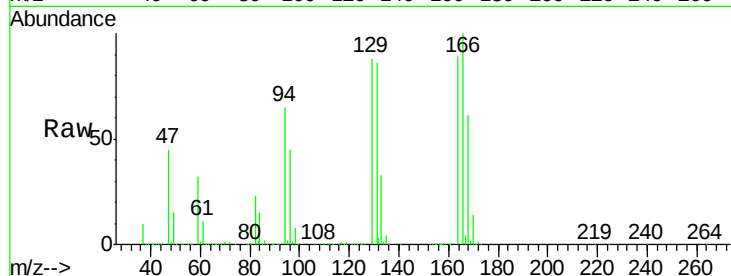
166 112.9 100.6 151.0

129 99.5 82.9 124.3

131 97.4 79.2 118.8

Manual Integrations
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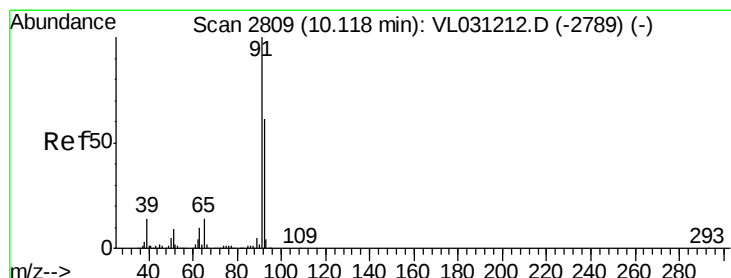
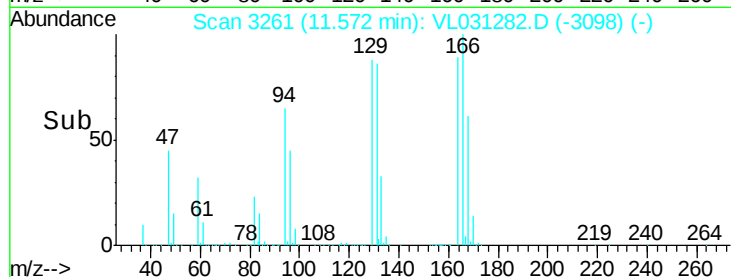
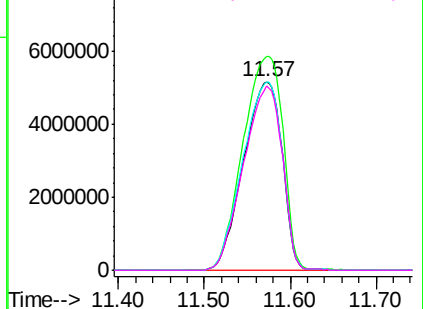


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.14 ppbv

RT: 10.12 min Scan# 2808

Delta R.T. -0.00 min

Lab File: VL031282.D

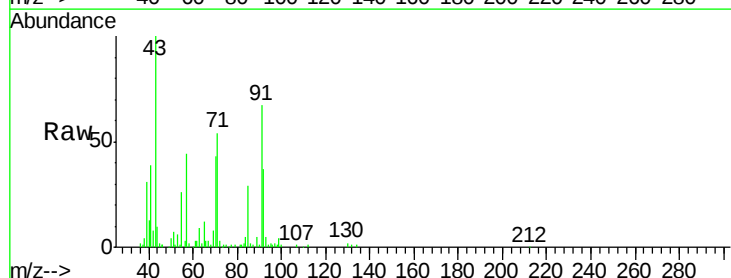
Acq: 20 Dec 2017 23:18

Tgt Ion: 91 Resp: 58948

Ion Ratio Lower Upper

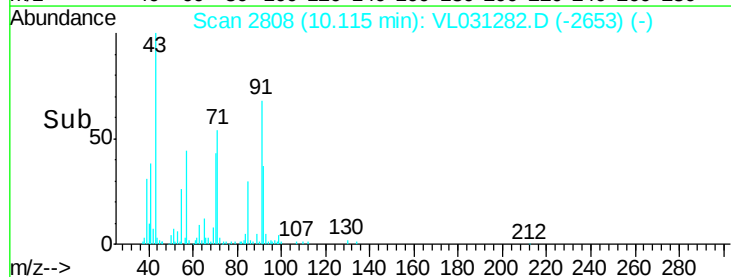
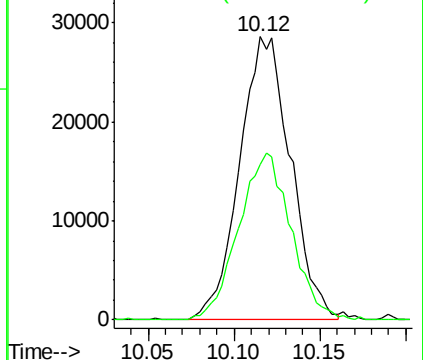
91 100

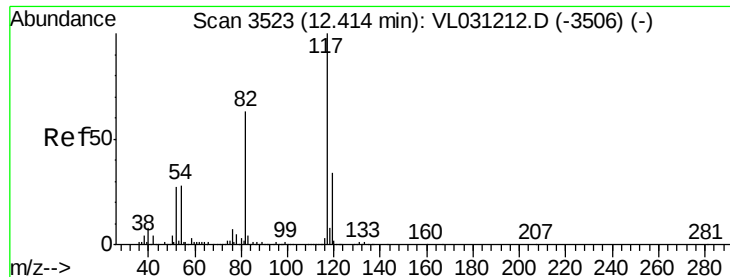
92 60.4 49.1 73.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





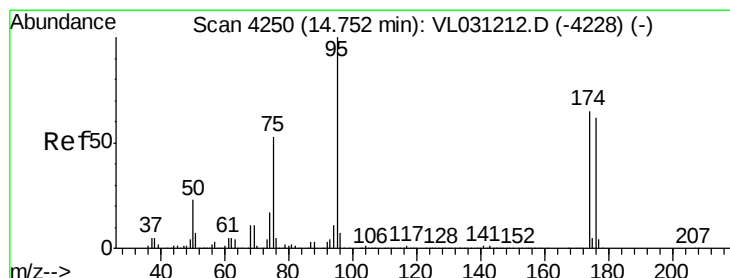
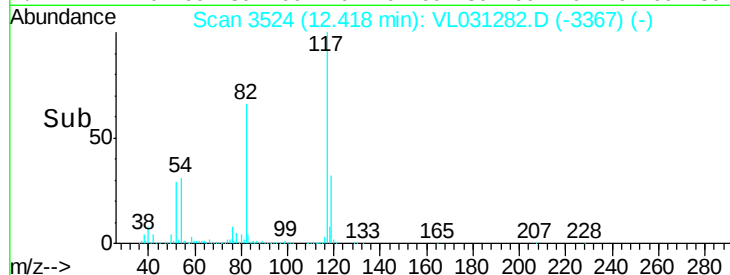
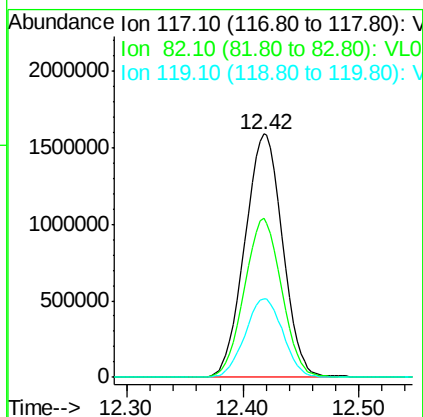
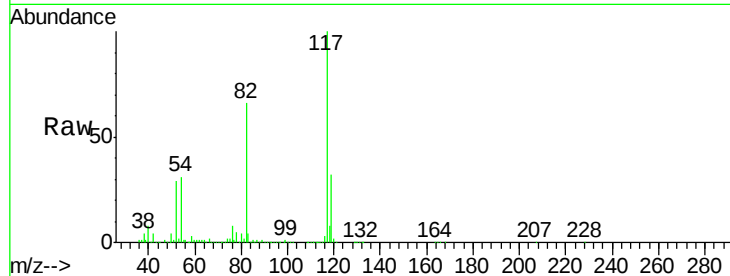
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.42 min Scan# 3524
Delta R.T. 0.00 min
Lab File: VL031282.D
Acq: 20 Dec 2017 23:18

Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-4DL

Tot Ion:117 Resp: 3601662
Ion Ratio Lower Upper
117 100
82 65.4 48.1 72.1
119 32.7 23.1 34.7

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#68
1-Bromo-4-Fluorobenzene
Concen: 11.06 ppbv
RT: 14.75 min Scan# 4250
Delta R.T. 0.00 min
Lab File: VL031282.D
Acq: 20 Dec 2017 23:18

Tgt Ion: 95 Resp: 2832130
Ion Ratio Lower Upper
95 100
174 61.2 52.5 78.7
175 4.6 4.1 6.1

