

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL122017\
 Data File : VL031292.D
 Acq On : 21 Dec 2017 5:51
 Operator : SY/AP
 Sample : I7005-10DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EP1-SV-9DL

Manual Integrations
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Quant Time: Dec 22 07:10:37 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	1352833	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	3342527	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	3088991	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	2495455	11.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	113.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.18	85	34223	0.30	ppbv	92
9) Propene	3.14	41	267865	3.55	ppbv	95
10) Heptane	8.41	43	43417	0.19	ppbv	95
11) Trichlorofluoromethane	4.13	101	55943	0.30	ppbv	95
13) Ethanol	3.79	45	32704m	1.50	ppbv	
15) Acetone	4.03	43	624044	3.50	ppbv #	64
17) tert-Butyl alcohol	4.52	59	21319	0.21	ppbv #	91
20) Methylene Chloride	4.54	84	27639	0.47	ppbv	94
26) Hexane	5.93	57	93440	0.54	ppbv #	39
27) Carbon Disulfide	4.76	76	18241	0.11	ppbv #	83
29) Chloroform	6.00	83	39703	0.17	ppbv	86
30) Cyclohexane	7.41	84	19476m	0.13	ppbv	
34) 2-Butanone	5.47	43	2026093	8.58	ppbv	98
36) Benzene	7.16	78	48859m	0.14	ppbv	
44) 2,2,4-Trimethylpentane	8.15	57	105050	0.20	ppbv #	78
51) 2-Hexanone	10.47	43	148662	0.54	ppbv #	98
52) Tetrachloroethene	11.55	164	19768m	0.15	ppbv	
53) Toluene	10.12	91	118815	0.31	ppbv	98

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

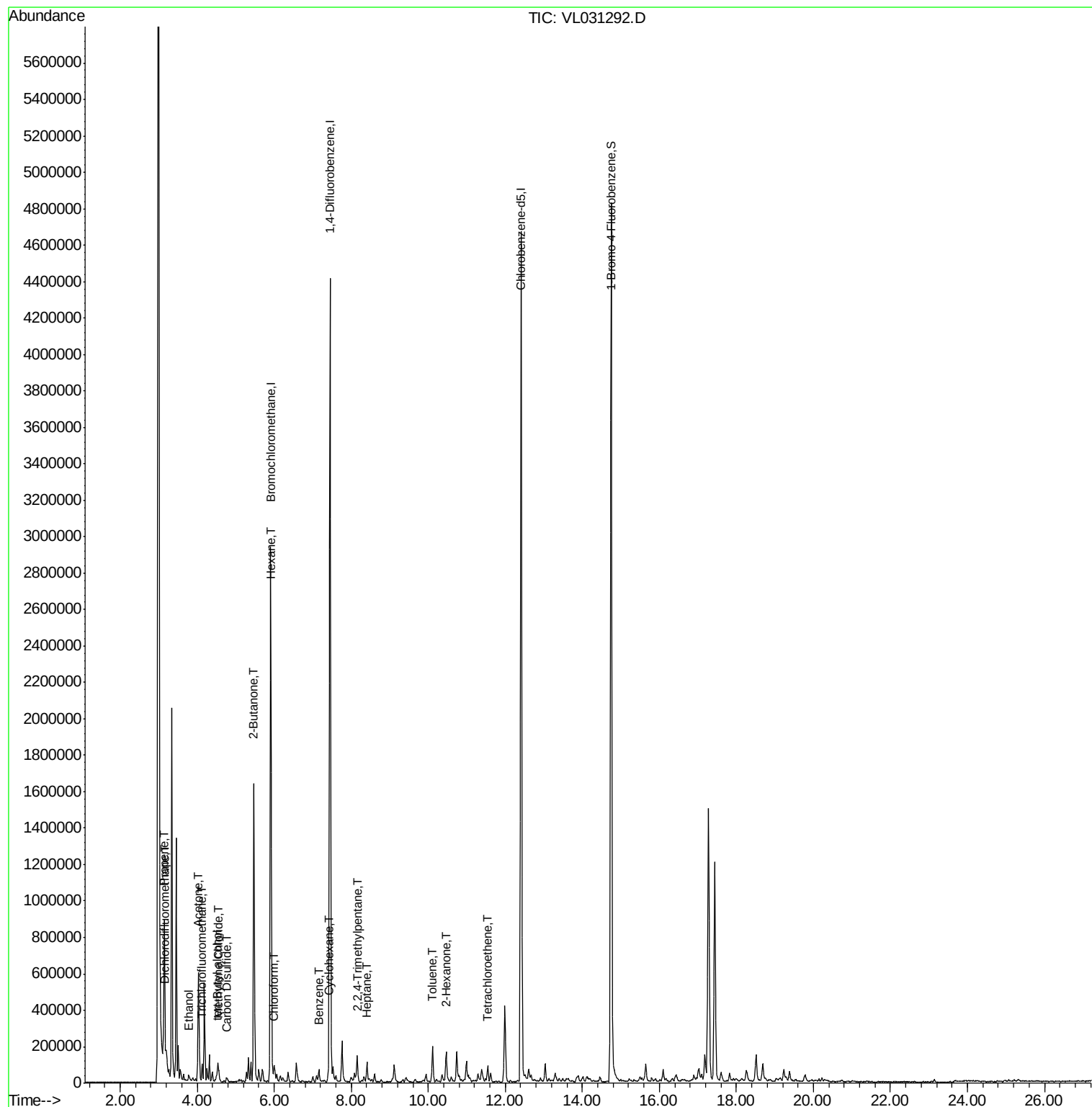
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL122017\
Data File : VL031292.D
Acq On : 21 Dec 2017 5:51
Operator : SY/AP
Sample : I7005-10DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

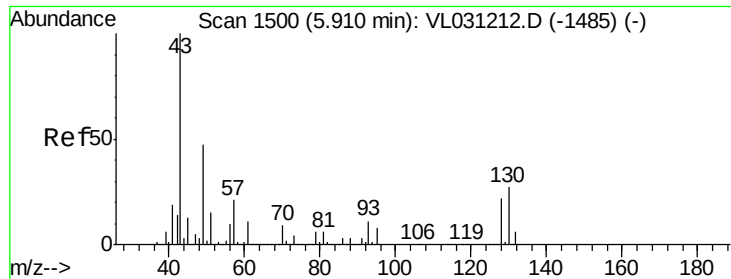
Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-9DL

Manual Integrations
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Quant Time: Dec 22 07:10:37 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





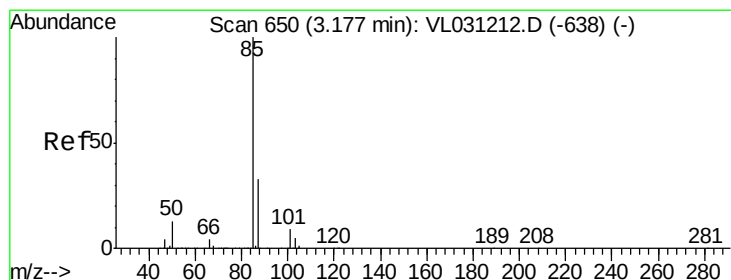
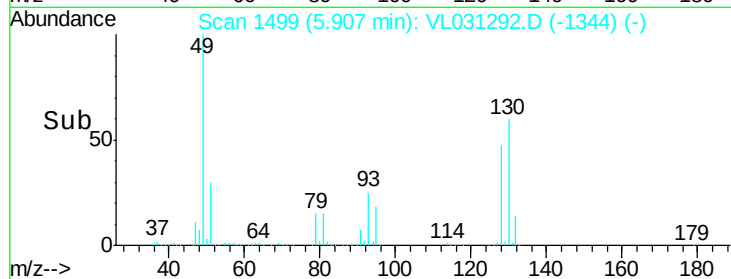
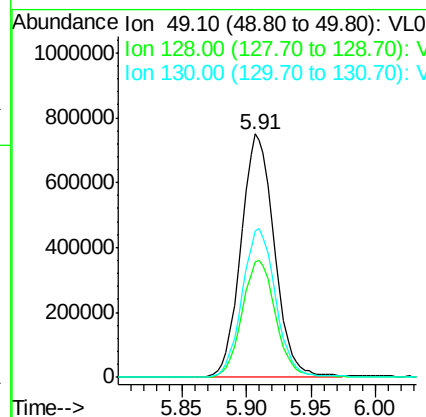
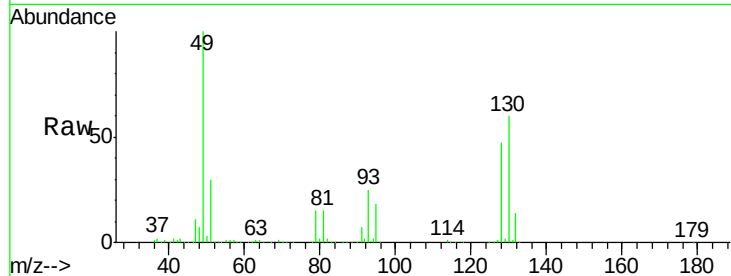
#1
 Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.91 min Scan# 1499
 Delta R.T. -0.00 min
 Lab File: VL031292.D
 Acq: 21 Dec 2017 5:51

Instrument :
 MSVOA_L
 ClientSampled :
 EP1-SV-9DL

Tot Ion	Ratio	Lower	Upper
49	100		
128	48.8	23.2	69.5
130	61.9	29.6	88.8

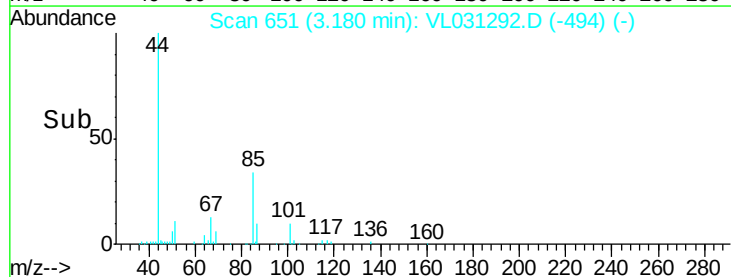
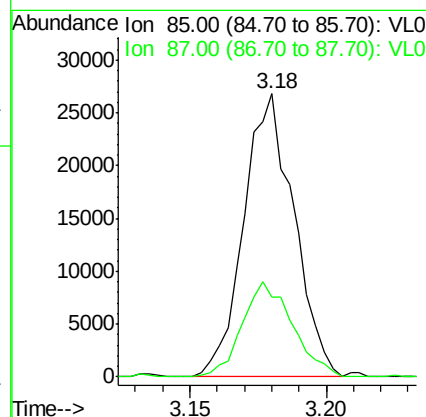
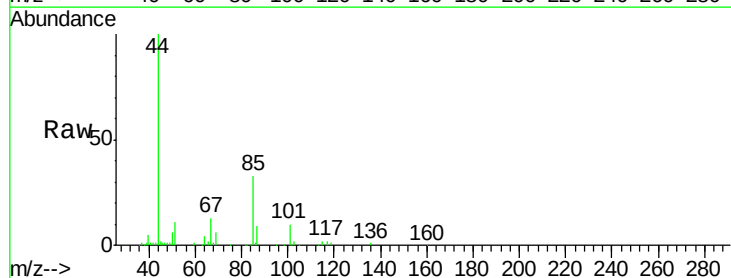
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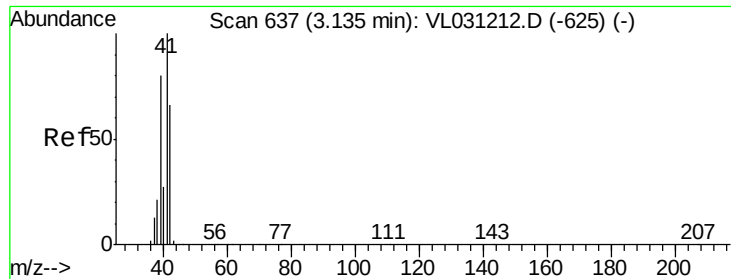
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#2
 Dichlorodifluoromethane
 Concen: 0.30 ppbv
 RT: 3.18 min Scan# 651
 Delta R.T. 0.00 min
 Lab File: VL031292.D
 Acq: 21 Dec 2017 5:51

Tgt Ion	Ratio	Lower	Upper
85	100		
87	28.1	26.2	39.2





#9

Propene

Concen: 3.55 ppbv

RT: 3.14 min Scan# 638

Delta R.T. 0.00 min

Lab File: VL031292.D

Acq: 21 Dec 2017 5:51

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-9DL

Tot Ion: 41 Resp: 267865

Ion Ratio Lower Upper

41 100

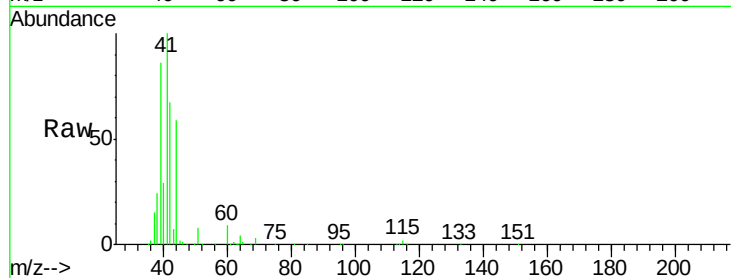
42 64.1 54.3 81.5

Manual Integrations

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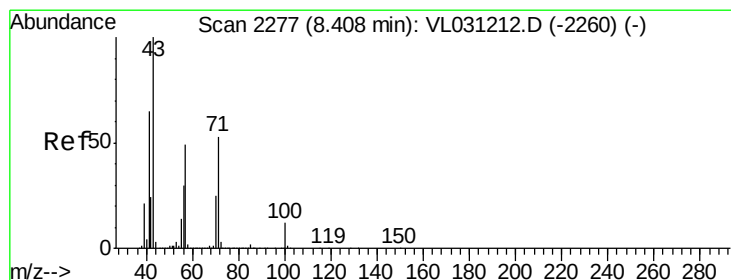
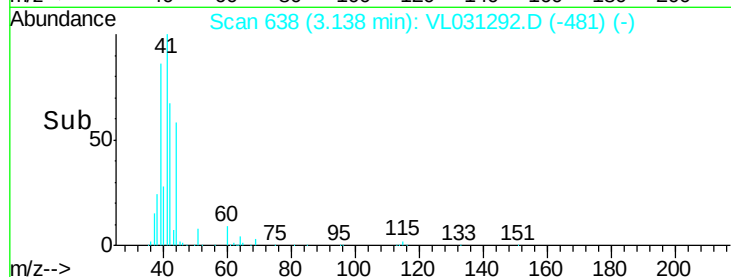
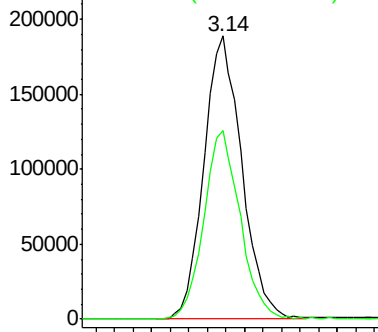
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.19 ppbv

RT: 8.41 min Scan# 2277

Delta R.T. 0.00 min

Lab File: VL031292.D

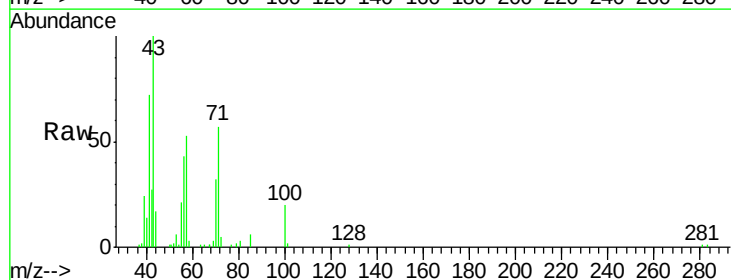
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Tgt Ion: 43 Resp: 43417

Ion Ratio Lower Upper

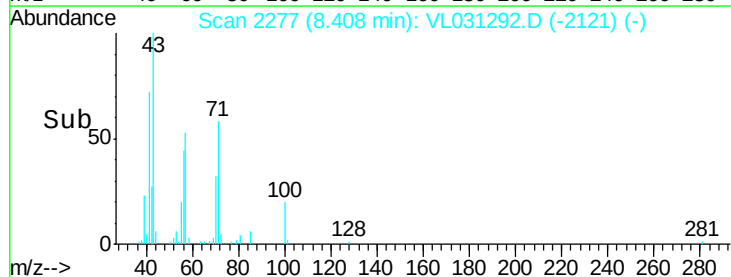
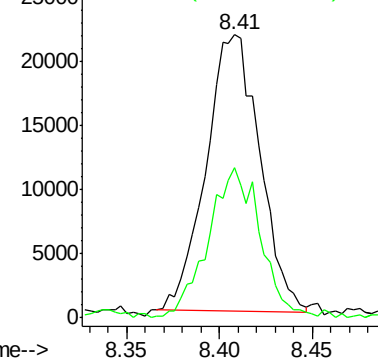
43 100

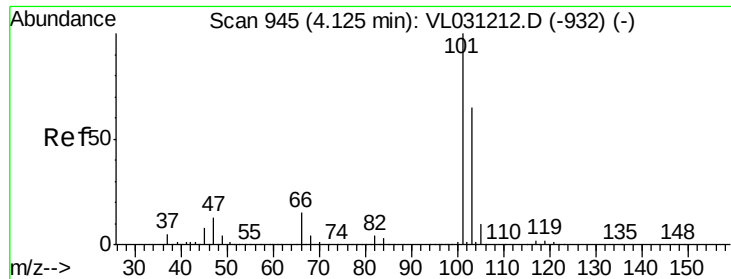
57 53.0 39.8 59.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





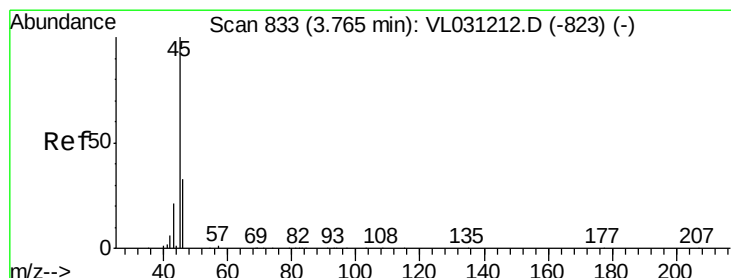
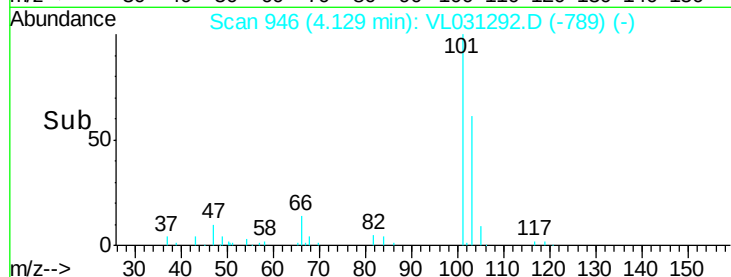
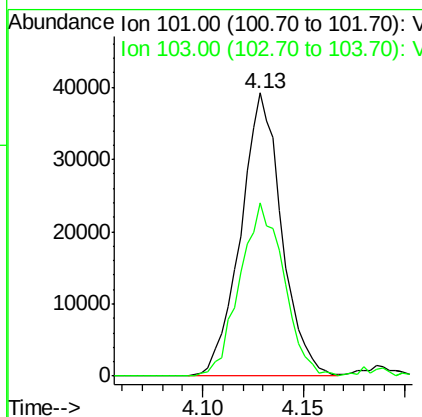
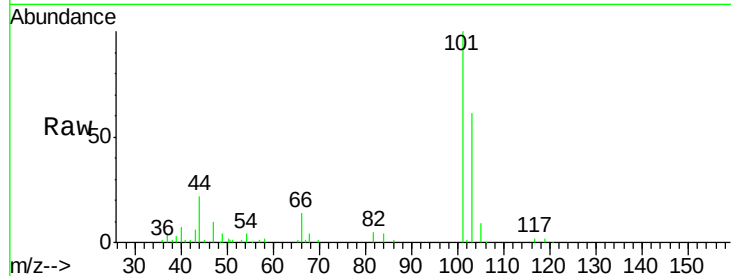
#11
 Trichlorofluoromethane
 Concen: 0.30 ppbv
 RT: 4.13 min Scan# 946
 Delta R.T. 0.00 min
 Lab File: VL031292.D
 Acq: 21 Dec 2017 5:51

Instrument :
 MSVOA_L
 ClientSampleId :
 EP1-SV-9DL

Tot Ion: 101 Resp: 55943
 Ion Ratio Lower Upper
 101 100
 103 61.1 51.8 77.8

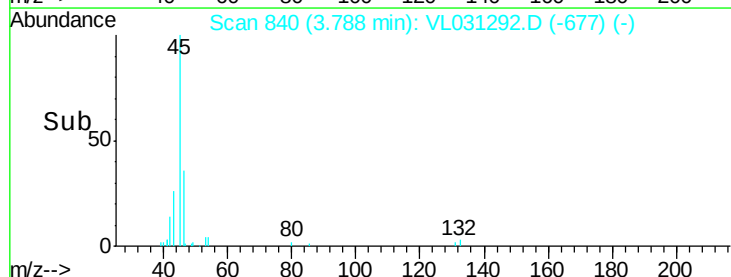
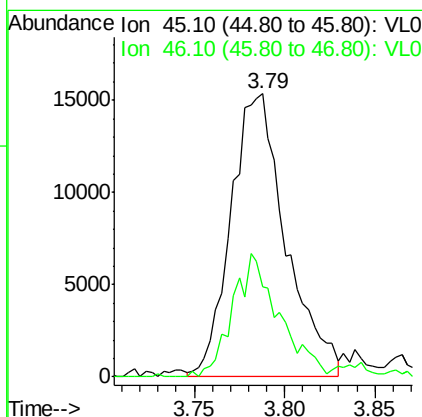
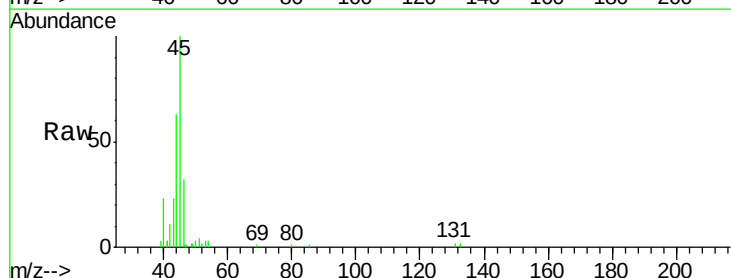
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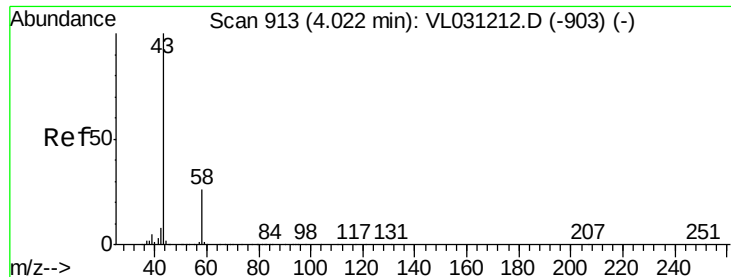
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#13
 Ethanol
 Concen: 1.50 ppbv m
 RT: 3.79 min Scan# 840
 Delta R.T. 0.02 min
 Lab File: VL031292.D
 Acq: 21 Dec 2017 5:51

Tgt Ion: 45 Resp: 32704
 Ion Ratio Lower Upper
 45 100
 46 37.2 14.6 58.4





#15

Acetone

Concen: 3.50 ppbv

RT: 4.03 min Scan# 914

Delta R.T. 0.00 min

Lab File: VL031292.D

Acq: 21 Dec 2017 5:51

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-9DL

Tot Ion: 43 Resp: 624044

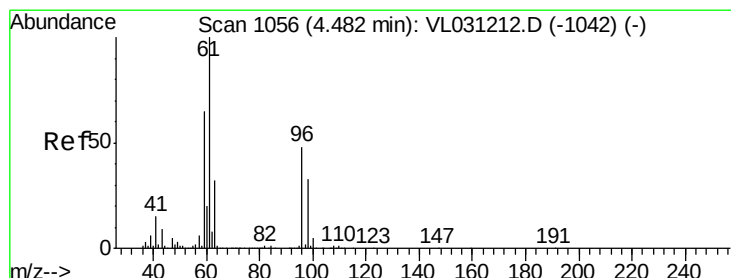
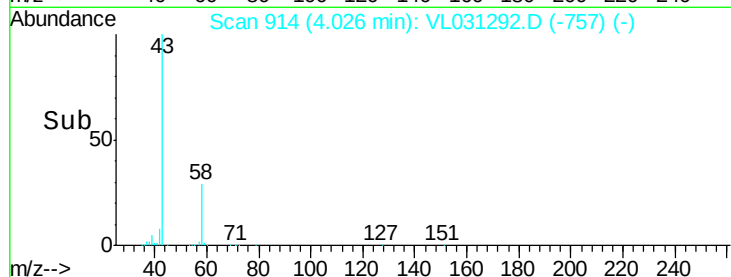
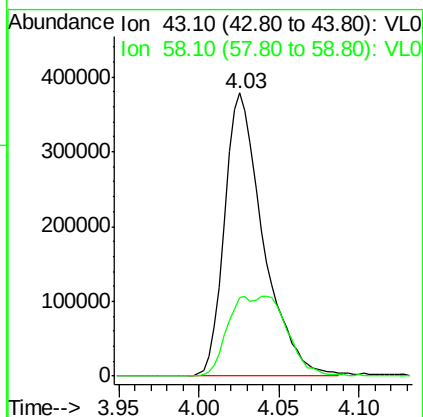
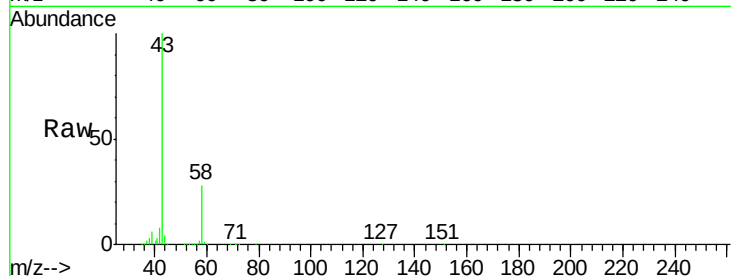
Ion Ratio Lower Upper

43 100

58 43.4 20.3 30.5#

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#17

tert-Butyl alcohol

Concen: 0.21 ppbv

RT: 4.52 min Scan# 1069

Delta R.T. 0.04 min

Lab File: VL031292.D

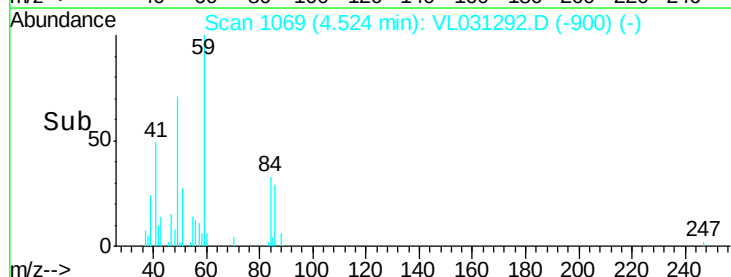
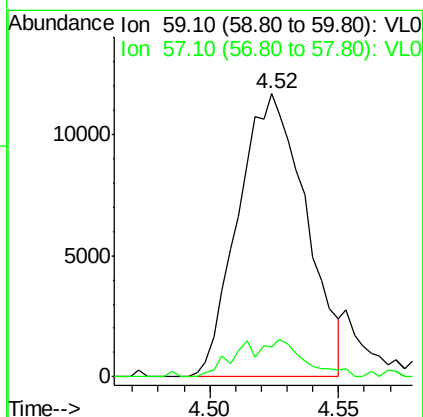
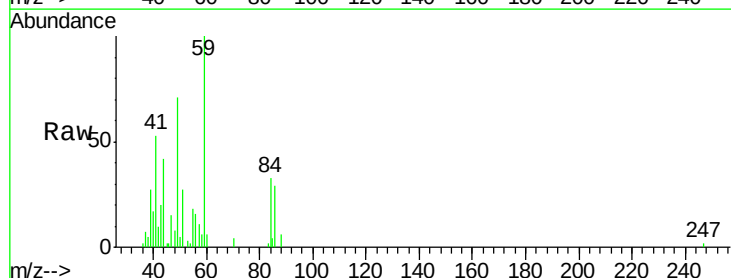
Acq: 21 Dec 2017 5:51

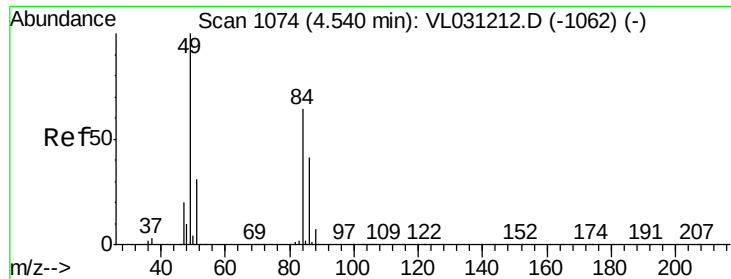
Tgt Ion: 59 Resp: 21319

Ion Ratio Lower Upper

59 100

57 13.5 8.2 12.2#





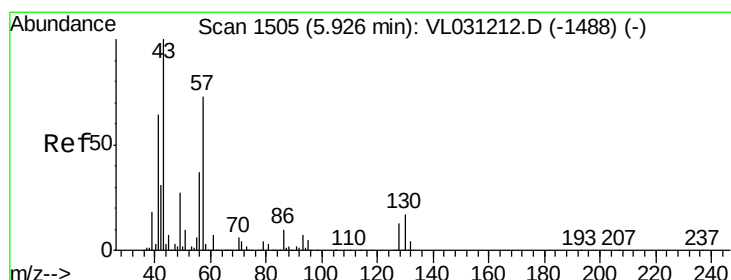
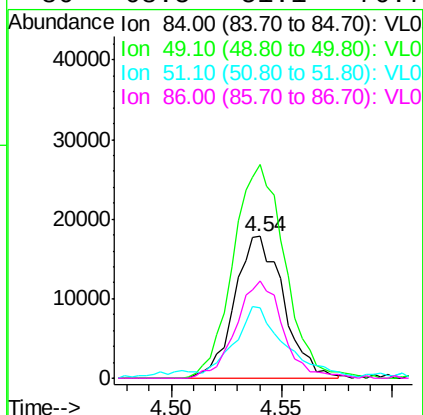
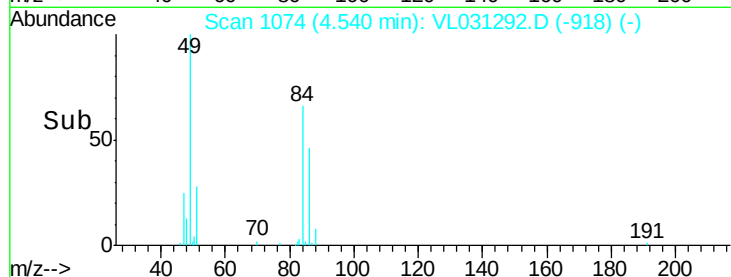
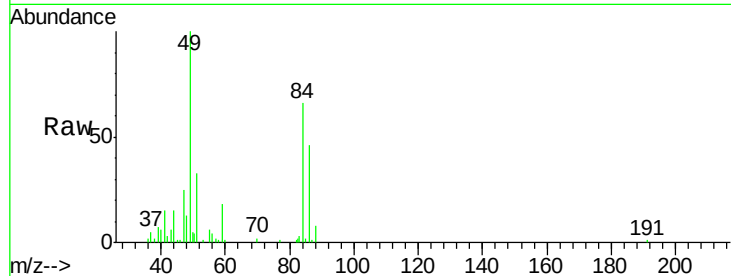
#20
Methvlene Chloride
Concen: 0.47 ppbv
RT: 4.54 min Scan# 1074
Delta R.T. 0.00 min
Lab File: VL031292.D
Acq: 21 Dec 2017 5:51

Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-9DL

Tot Ion	Ratio	Lower	Upper
84	100		
49	149.3	125.8	188.6
51	45.4	39.3	58.9
86	68.5	51.1	76.7

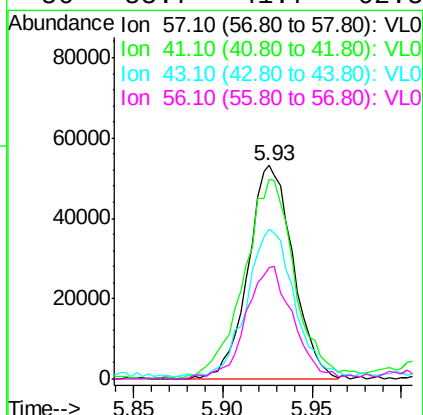
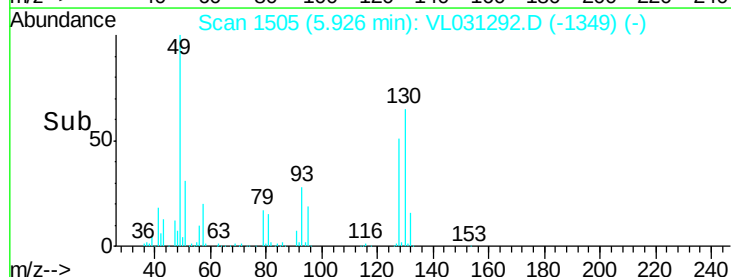
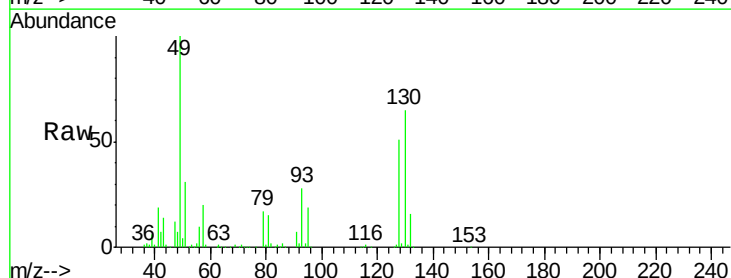
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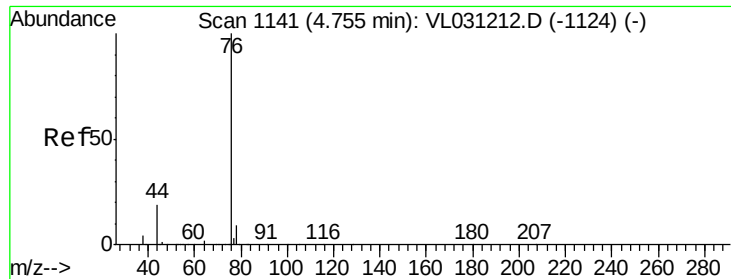
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#26
Hexane
Concen: 0.54 ppbv
RT: 5.93 min Scan# 1505
Delta R.T. 0.00 min
Lab File: VL031292.D
Acq: 21 Dec 2017 5:51

Tgt Ion	Ratio	Lower	Upper
57	100		
41	107.7	70.3	105.5#
43	72.6	173.8	260.8#
56	55.7	41.7	62.5





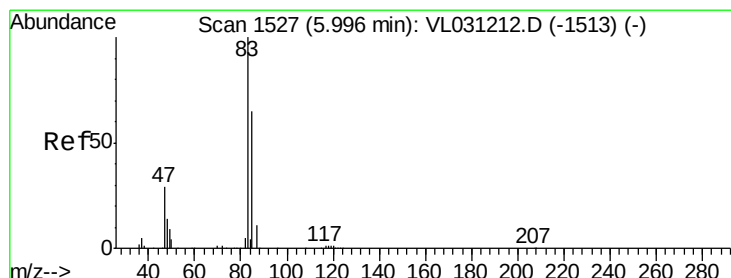
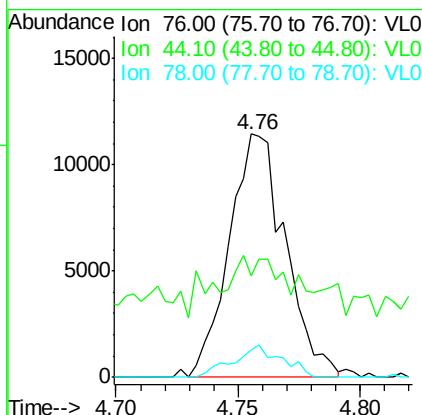
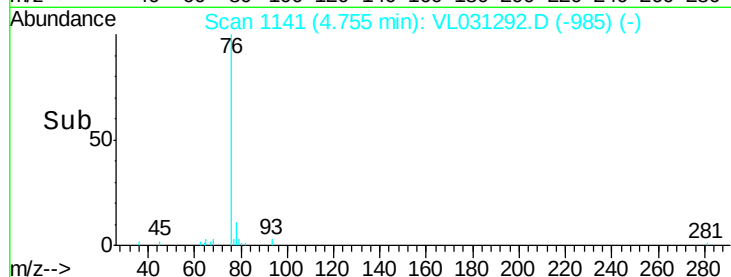
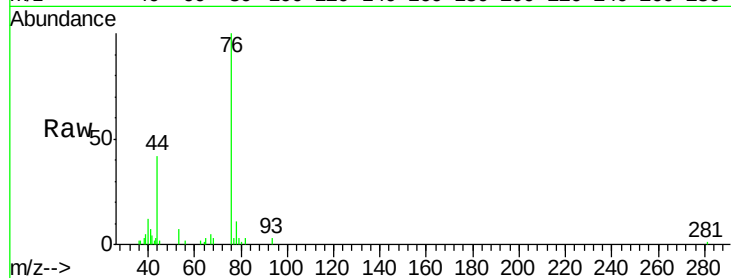
#27
Carbon Disulfide
Concen: 0.11 ppbv
RT: 4.76 min Scan# 1141
Delta R.T. 0.00 min
Lab File: VL031292.D
Acq: 21 Dec 2017 5:51

Instrument :
MSVOA_L
ClientSampled :
EP1-SV-9DL

Tot Ion	Ratio	Lower	Upper
76	100		
44	30.0	16.0	24.0#
78	11.4	7.5	11.3#

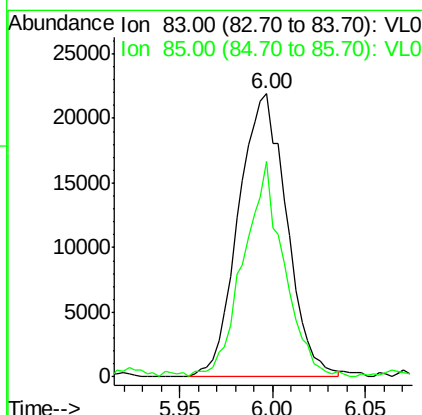
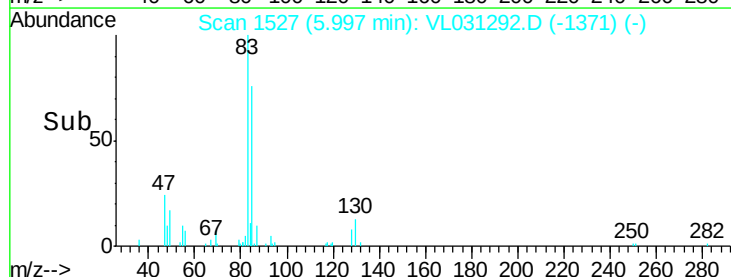
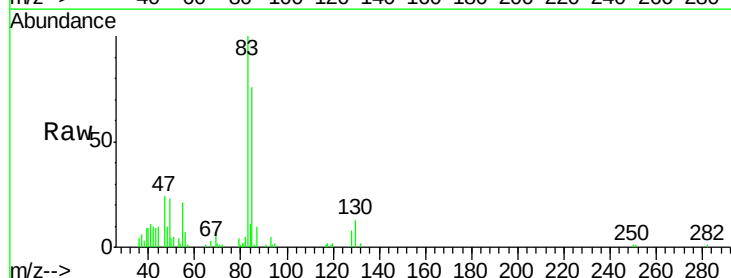
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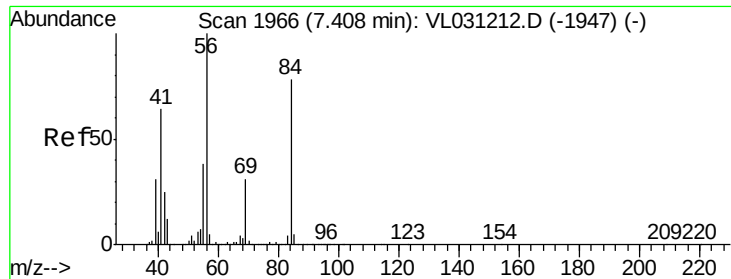
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#29
Chloroform
Concen: 0.17 ppbv
RT: 6.00 min Scan# 1527
Delta R.T. 0.00 min
Lab File: VL031292.D
Acq: 21 Dec 2017 5:51

Tgt Ion	Ratio	Lower	Upper
83	100		
85	76.0	51.8	77.6





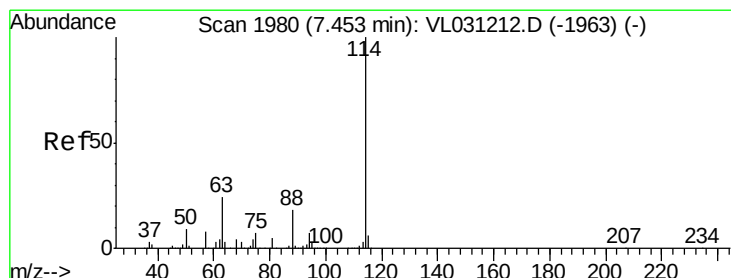
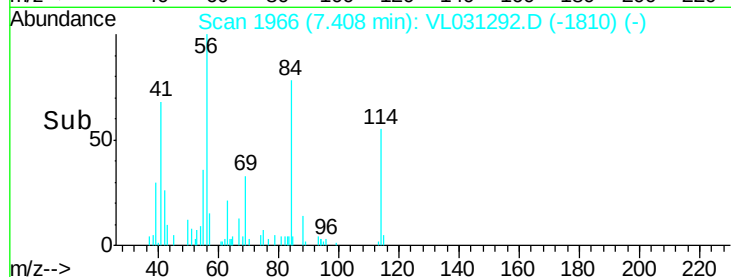
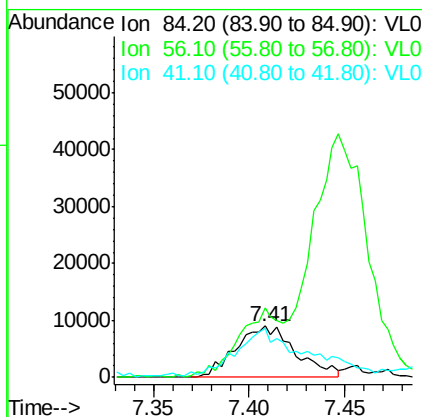
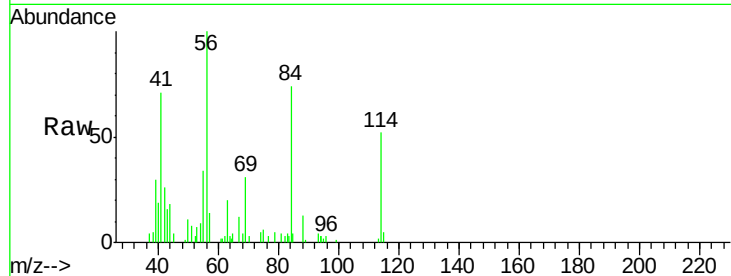
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Cyclohexane
Concen: 0.13 ppbv m
RT: 7.41 min Scan# 1966
Delta R.T. 0.00 min
Lab File: VL031292.D
Acq: 21 Dec 2017 5:51

Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-9DL

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	108.0	162.0#
41	0.0	66.2	99.4#

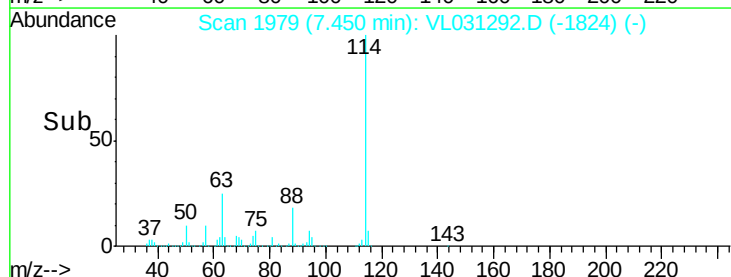
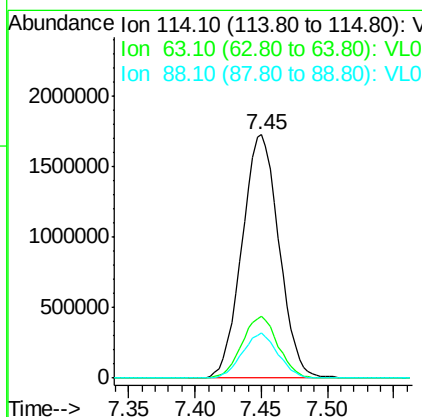
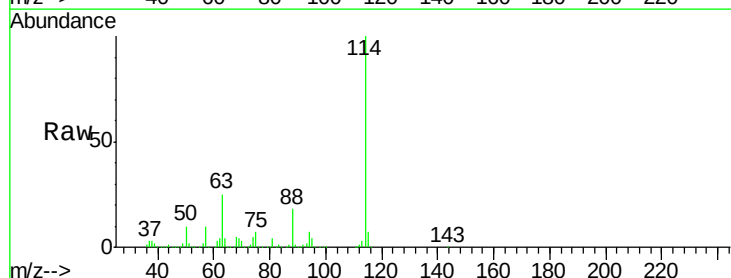
Manual Integrations
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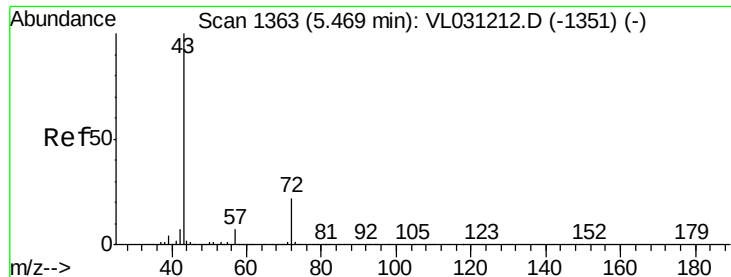
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#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.45 min Scan# 1979
Delta R.T. -0.00 min
Lab File: VL031292.D
Acq: 21 Dec 2017 5:51

Tgt Ion	Ratio	Lower	Upper
114	100		
63	25.0	19.8	29.8
88	17.8	14.2	21.4





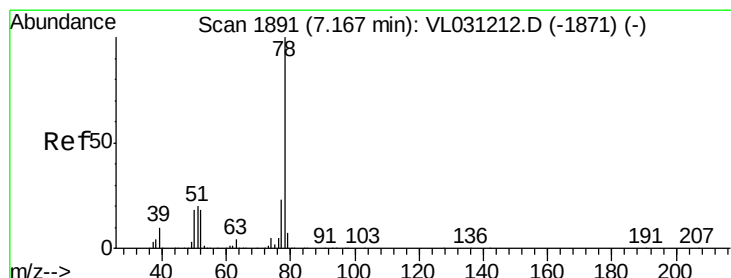
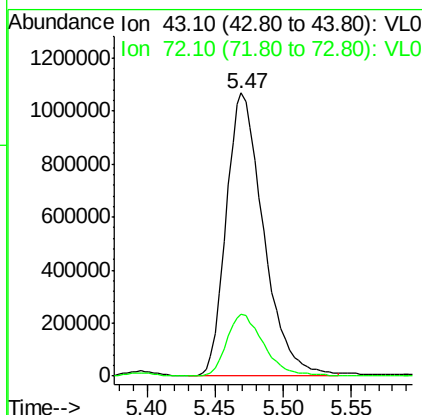
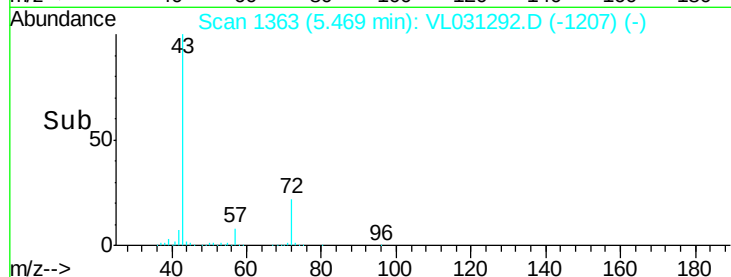
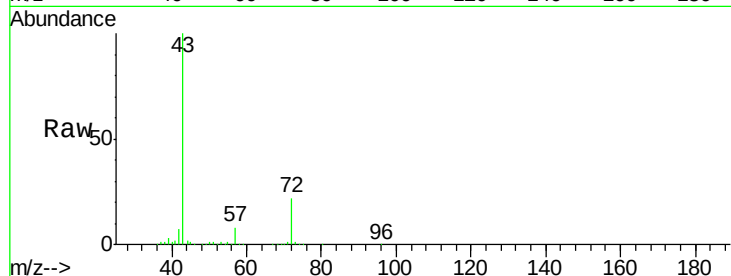
#34
2-Butanone
Concen: 8.58 ppbv
RT: 5.47 min Scan# 1363
Delta R.T. 0.00 min
Lab File: VL031292.D
Acq: 21 Dec 2017 5:51

Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-9DL

Tot Ion: 43 Resp: 2026093
Ion Ratio Lower Upper
43 100
72 21.8 18.1 27.1

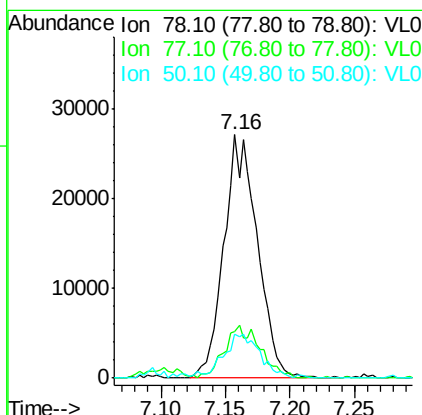
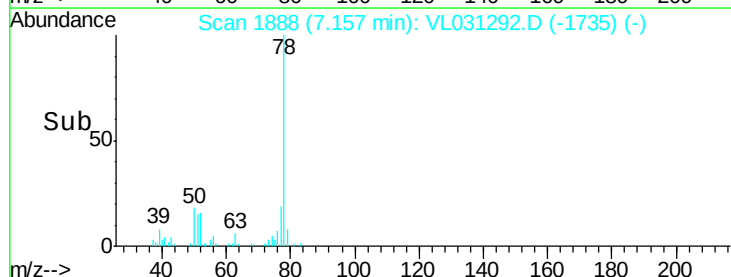
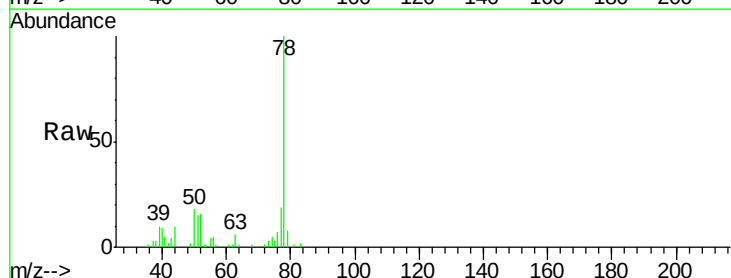
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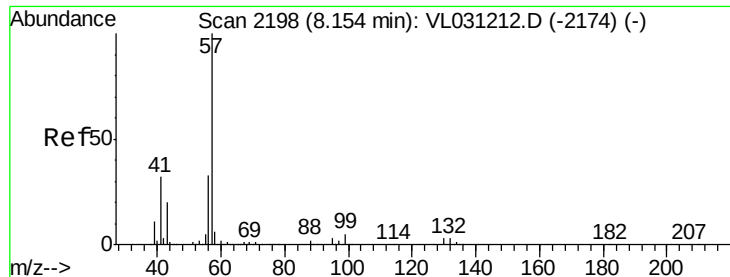
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#36
Benzene
Concen: 0.14 ppbv m
RT: 7.16 min Scan# 1888
Delta R.T. -0.01 min
Lab File: VL031292.D
Acq: 21 Dec 2017 5:51

Tgt Ion: 78 Resp: 48859
Ion Ratio Lower Upper
78 100
77 19.3 18.1 27.1
50 18.2 14.6 21.8





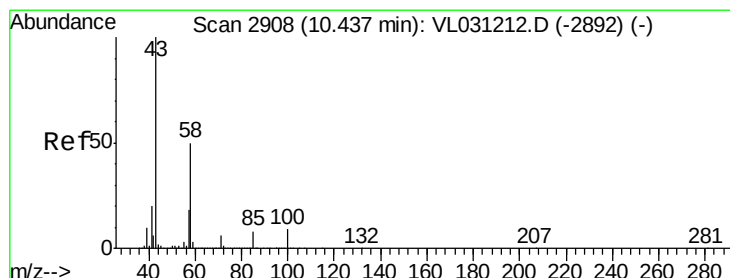
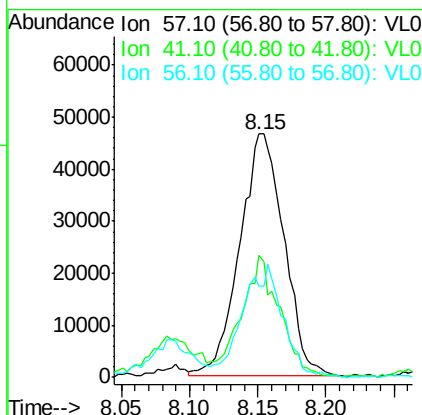
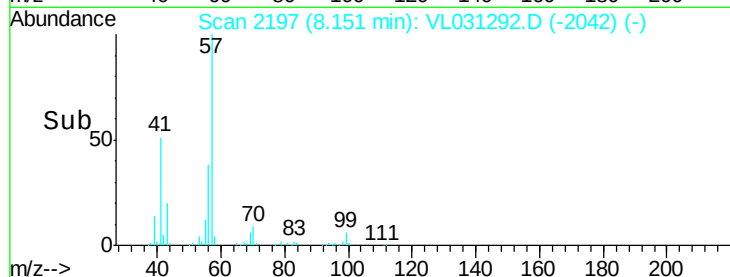
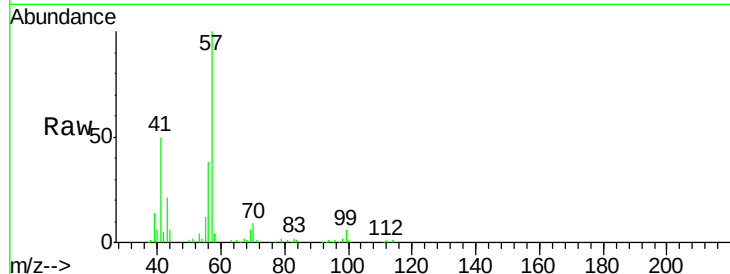
#44
 2,2,4-Trimethylpentane
 Concen: 0.20 ppbv
 RT: 8.15 min Scan# 2197
 Delta R.T. -0.00 min
 Lab File: VL031292.D
 Acq: 21 Dec 2017 5:51

Instrument :
 MSVOA_L
 ClientSampleId :
 EP1-SV-9DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	44.2	25.5	38.3#
56	42.9	25.0	37.6#

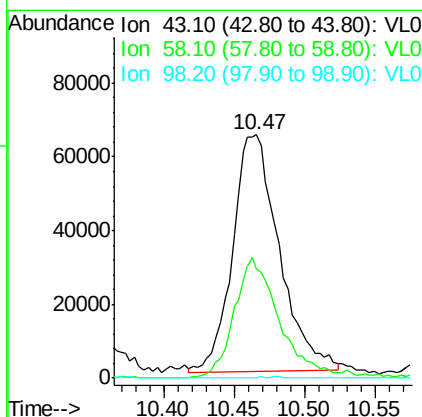
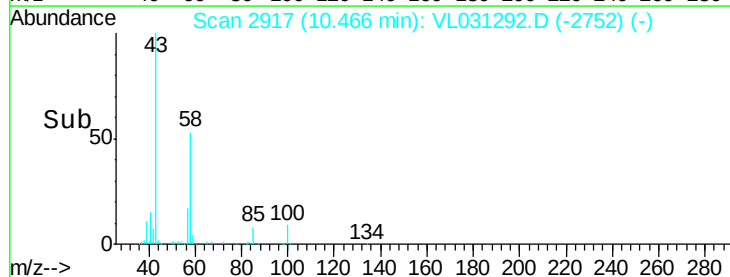
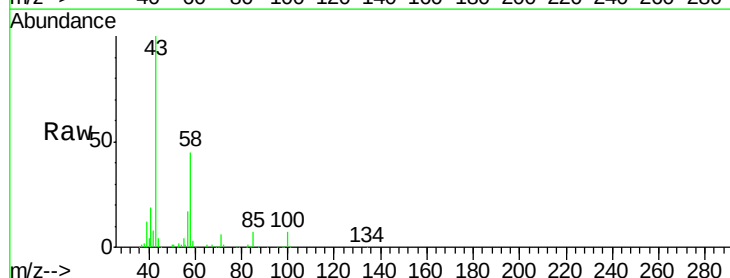
Manual Integrations
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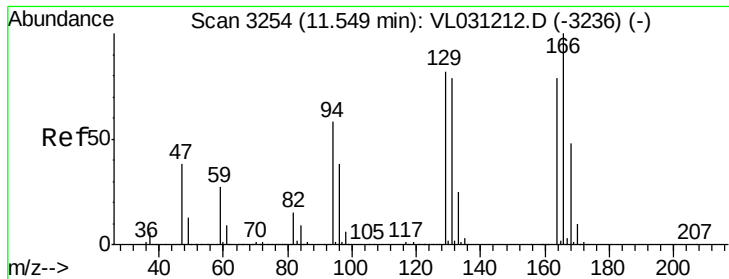
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#51
 2-Hexanone
 Concen: 0.54 ppbv
 RT: 10.47 min Scan# 2917
 Delta R.T. 0.03 min
 Lab File: VL031292.D
 Acq: 21 Dec 2017 5:51

Tgt Ion	Ratio	Lower	Upper
43	100		
58	51.3	39.8	59.6
98	0.1	0.0	0.0#





#52

Tetrachloroethene

Concen: 0.15 ppbv m

RT: 11.55 min Scan# 3254

Delta R.T. 0.00 min

Lab File: VL031292.D

Acq: 21 Dec 2017 5:51

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-9DL

Tot Ion:164 Resp: 19768

Ion Ratio Lower Upper

164 100

166 116.7 100.6 151.0

129 105.1 82.9 124.3

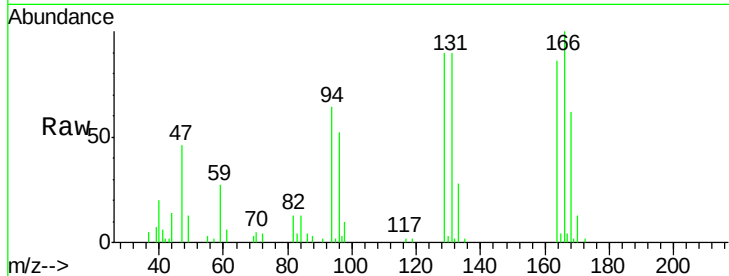
131 105.4 79.2 118.8

Manual Integrations

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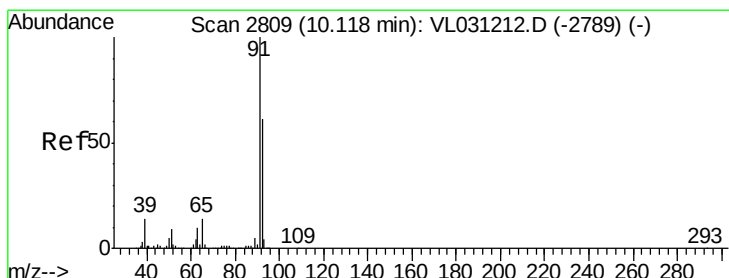
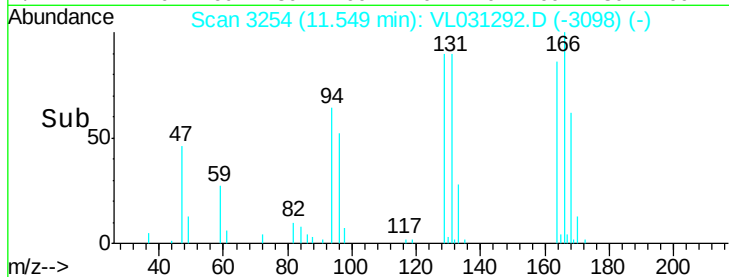
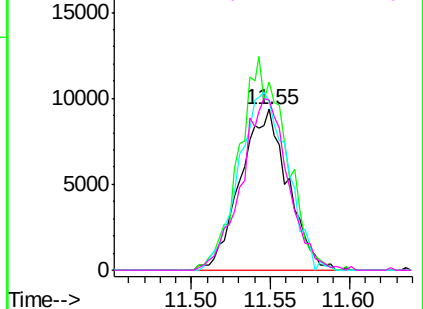


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.31 ppbv

RT: 10.12 min Scan# 2809

Delta R.T. 0.00 min

Lab File: VL031292.D

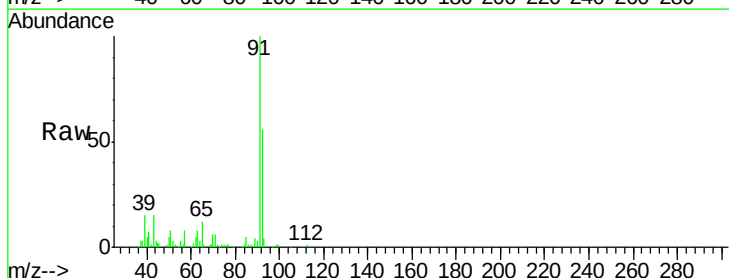
Acq: 21 Dec 2017 5:51

Tgt Ion: 91 Resp: 118815

Ion Ratio Lower Upper

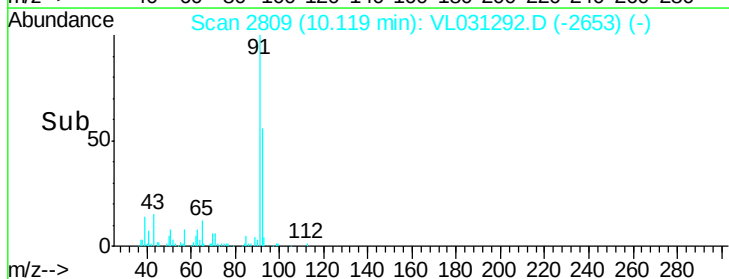
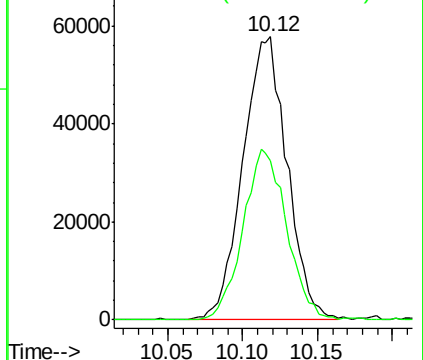
91 100

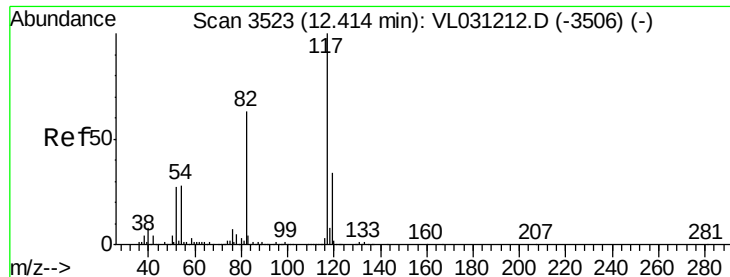
92 59.7 49.1 73.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





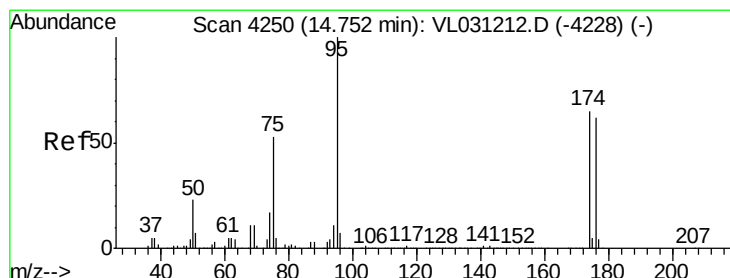
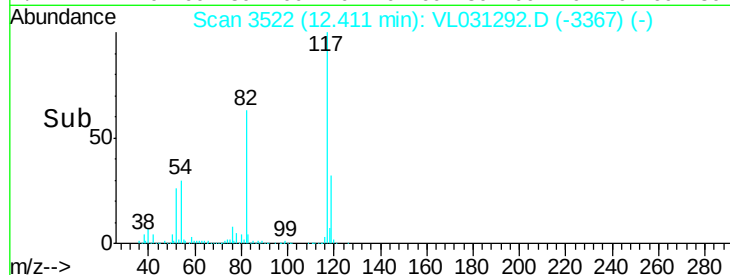
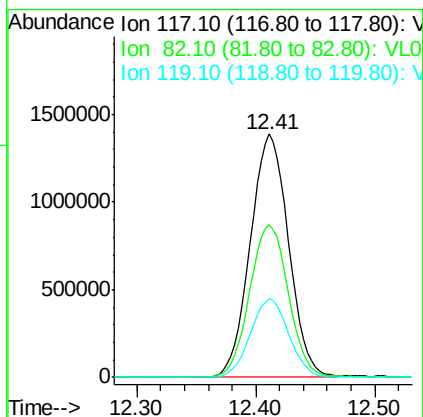
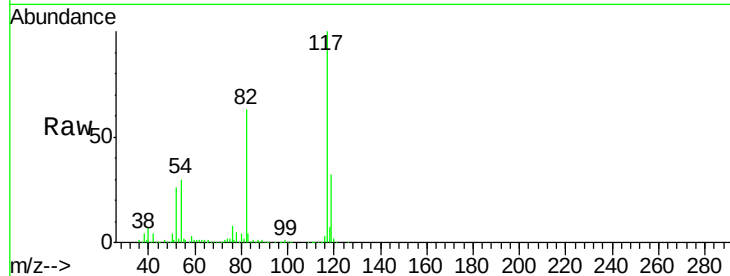
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.41 min Scan# 3522
Delta R.T. -0.00 min
Lab File: VL031292.D
Acq: 21 Dec 2017 5:51

Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-9DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	64.2	48.1	72.1
119	32.9	23.1	34.7

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#68
1-Bromo-4-Fluorobenzene
Concen: 11.36 ppbv
RT: 14.75 min Scan# 4248
Delta R.T. -0.01 min
Lab File: VL031292.D
Acq: 21 Dec 2017 5:51

Tgt Ion	Ratio	Lower	Upper
95	100		
174	61.9	52.5	78.7
175	4.5	4.1	6.1

