

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL122017\
 Data File : VL031278.D
 Acq On : 20 Dec 2017 20:41
 Operator : SY/AP
 Sample : I7005-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EP1-SV-2DL

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

Quant Time: Dec 22 04:54:19 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	1707970	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	3952403	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	3887290	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.75	95	3051838	11.04	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.14	41	117167	1.23	ppbv	90
13) Ethanol	3.78	45	37655	1.37	ppbv	93
15) Acetone	4.03	43	475823	2.11	ppbv #	77
17) tert-Butyl alcohol	4.51	59	61859	0.49	ppbv	96
26) Hexane	5.93	57	30790	0.14	ppbv #	8
29) Chloroform	6.00	83	960916	3.26	ppbv	100
34) 2-Butanone	5.48	43	1098084	3.93	ppbv	99
38) Trichloroethene	8.13	130	31298m	0.19	ppbv	
52) Tetrachloroethene	11.55	164	1994142	12.90	ppbv	95
53) Toluene	10.12	91	15730875	34.62	ppbv	92
58) Ethyl Benzene	13.03	91	724059	1.13	ppbv	98
59) m/p-Xylene	13.29	91	2039627	3.97	ppbv	99
60) o-Xylene	14.02	91	730944	1.41	ppbv	98
74) 1,2,4-Trimethylbenzene	17.09	105	84404m	0.16	ppbv	

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

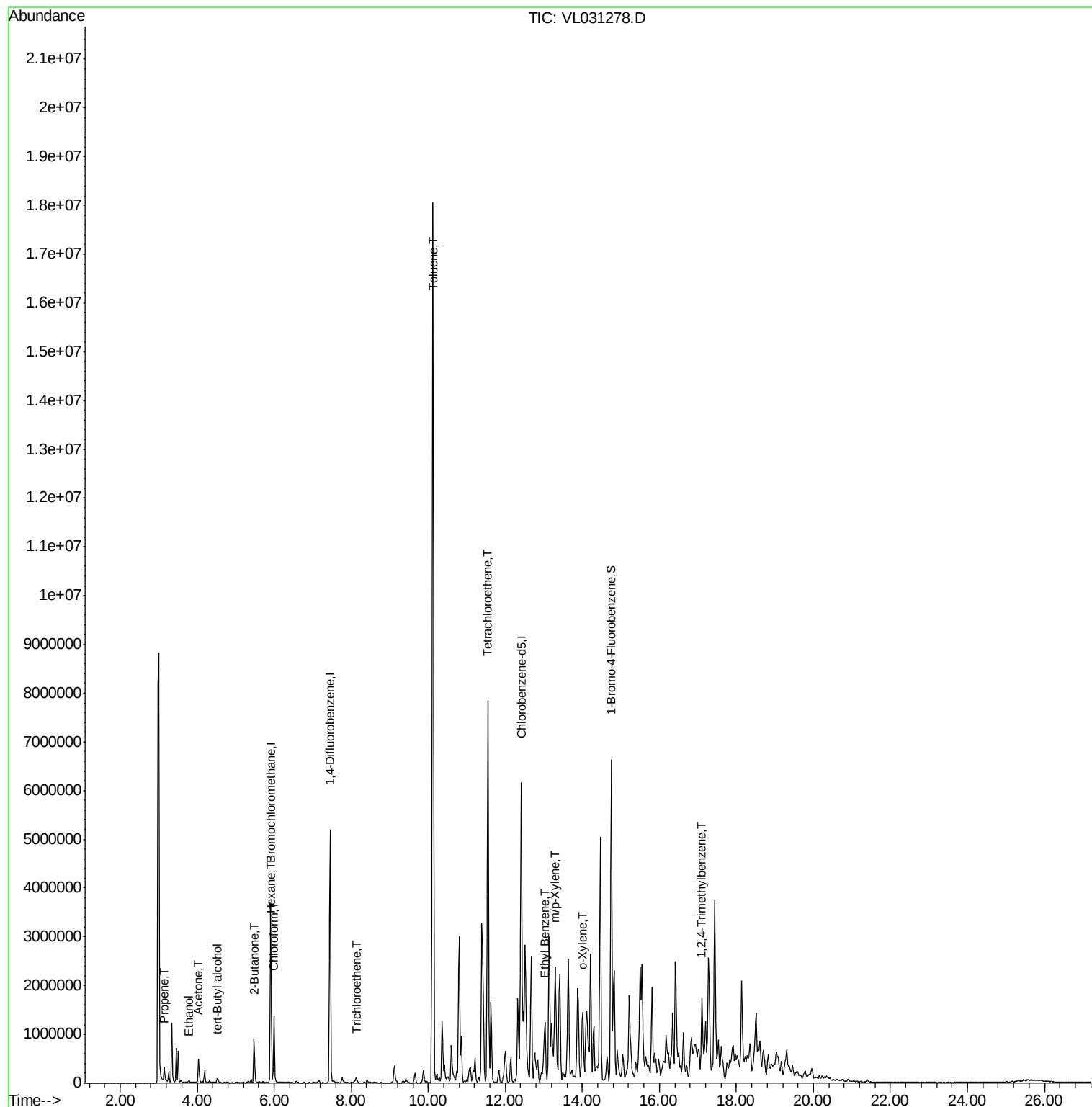
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL122017\
Data File : VL031278.D
Acq On : 20 Dec 2017 20:41
Operator : SY/AP
Sample : I7005-03DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

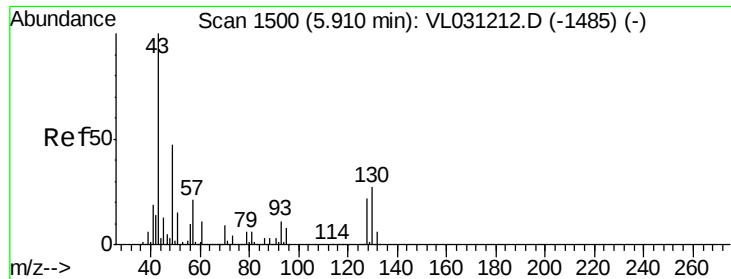
Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-2DL

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

Quant Time: Dec 22 04:54:19 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: VL031278.D

Acq: 20 Dec 2017 20:41

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-2DL

Tot Ion: 49 Resp: 1707970

Ion Ratio Lower Upper

49 100

128 48.3 23.2 69.5

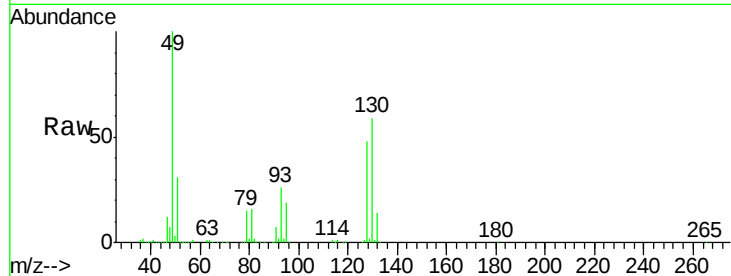
130 62.0 29.6 88.8

Manual Integrations

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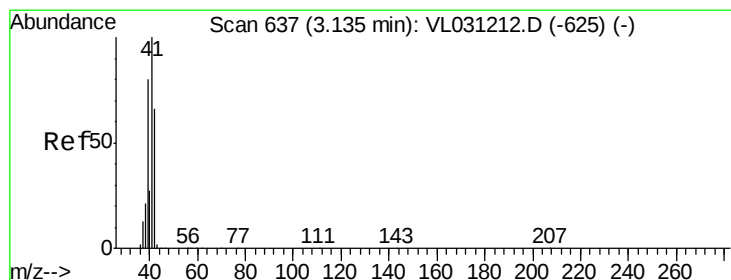
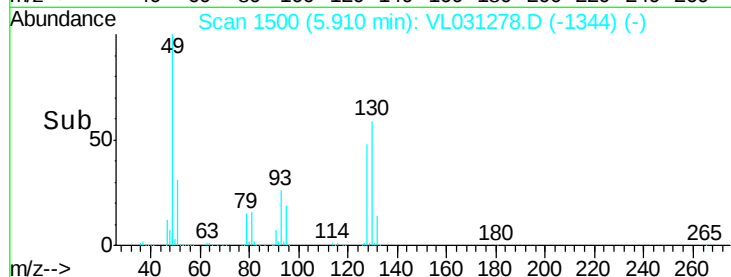
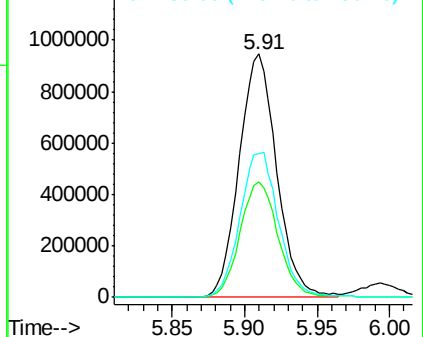
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#9

Propene

Concen: 1.23 ppbv

RT: 3.14 min Scan# 639

Delta R.T. 0.01 min

Lab File: VL031278.D

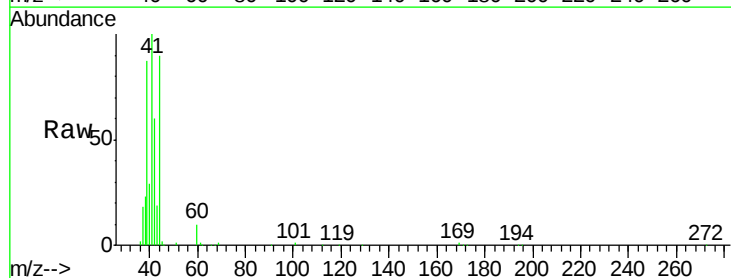
Acq: 20 Dec 2017 20:41

Tgt Ion: 41 Resp: 117167

Ion Ratio Lower Upper

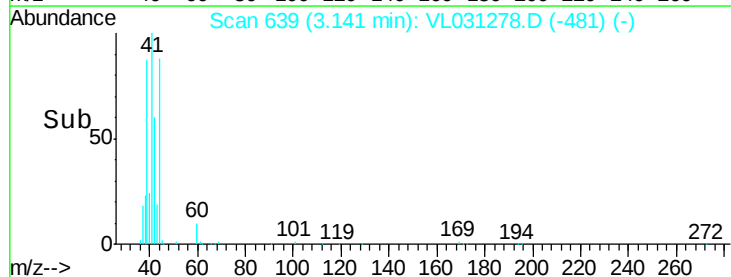
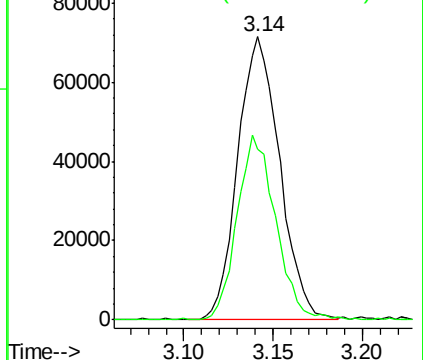
41 100

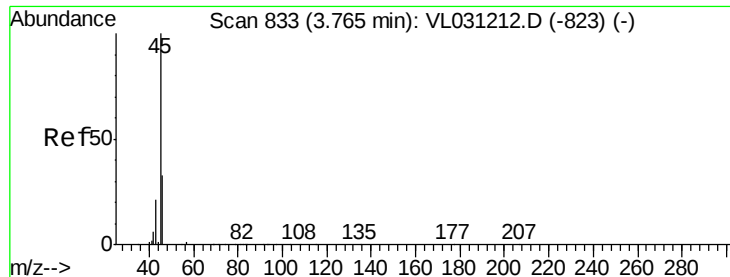
42 60.0 54.3 81.5



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





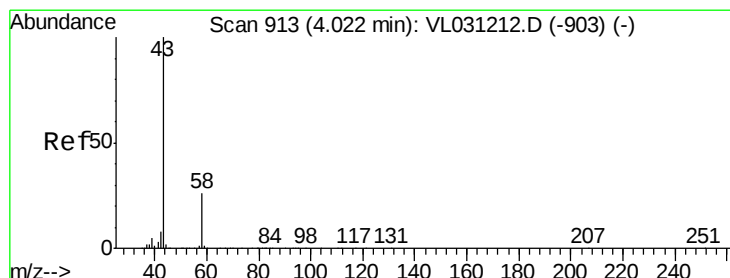
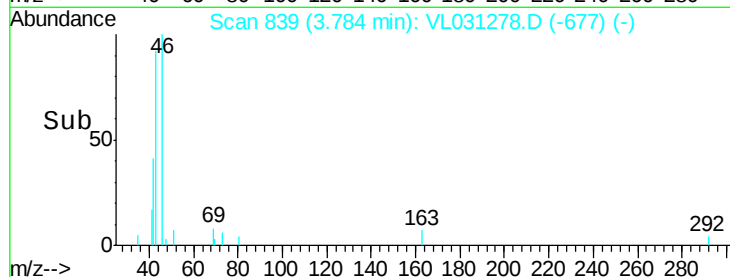
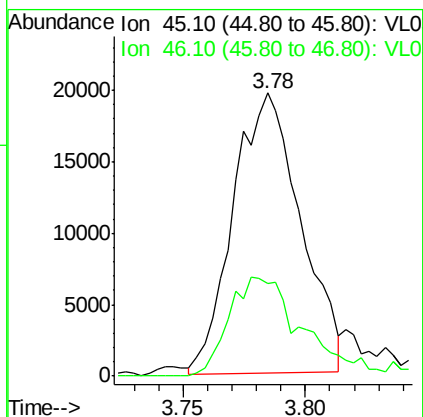
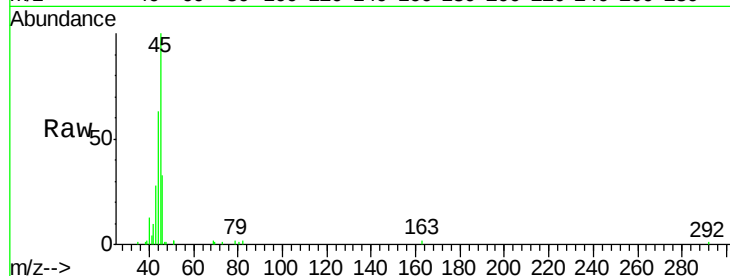
#13
Ethanol
Concen: 1.37 ppbv
RT: 3.78 min Scan# 839
Delta R.T. 0.02 min
Lab File: VL031278.D
Acq: 20 Dec 2017 20:41

Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-2DL

Tot Ion	45	46	Ratio	Lower	Upper
Resp:	37655				
Ion	45	46	100		
Ratio		40.8		14.6	58.4

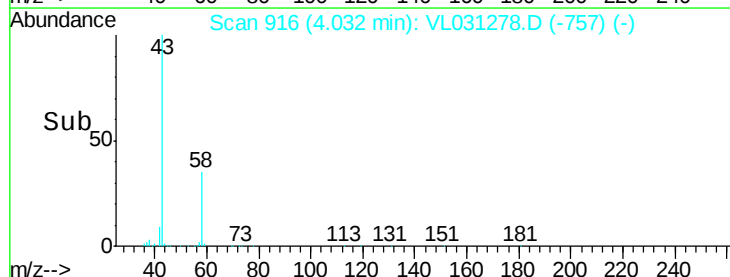
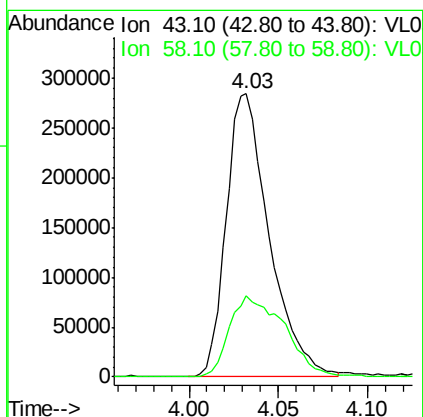
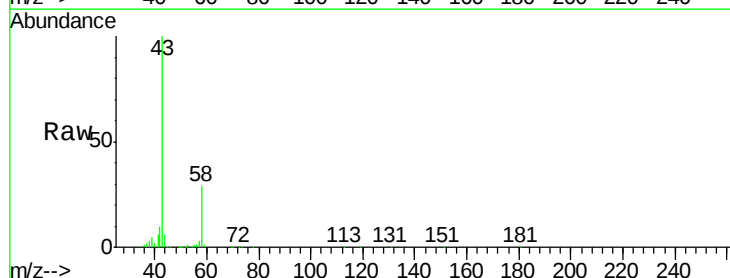
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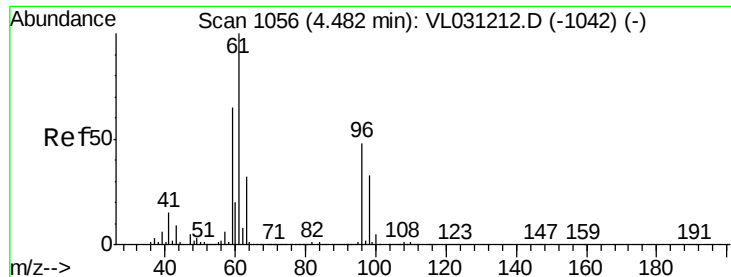
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#15
Acetone
Concen: 2.11 ppbv
RT: 4.03 min Scan# 916
Delta R.T. 0.01 min
Lab File: VL031278.D
Acq: 20 Dec 2017 20:41

Tgt Ion	43	58	Ratio	Lower	Upper
Resp:	475823				
Ion	43	58	100		
Ratio		37.1		20.3	30.5#





#17

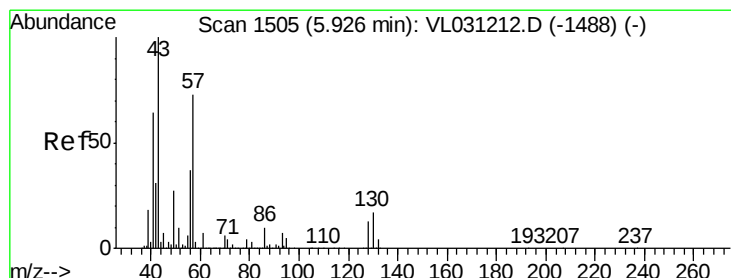
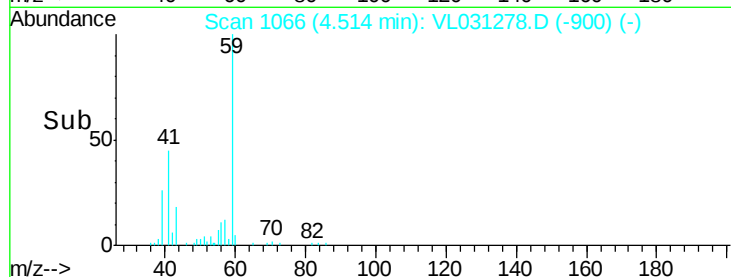
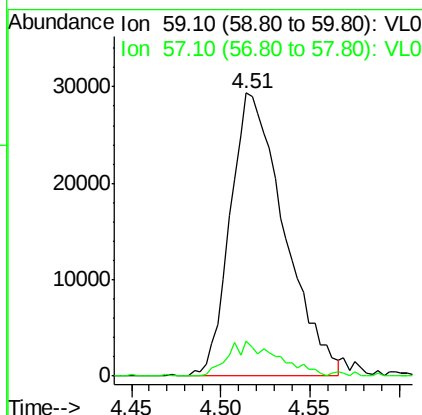
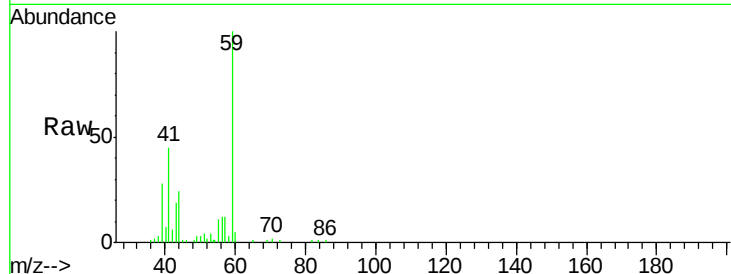
tert-Butyl alcohol
 Concen: 0.49 ppbv
 RT: 4.51 min Scan# 1066
 Delta R.T. 0.03 min
 Lab File: VL031278.D
 Acq: 20 Dec 2017 20:41

Instrument :
 MSVOA_L
 ClientSampleId :
 EP1-SV-2DL

Tot Ion	59	Resp	61859
Ion Ratio	Lower	Upper	
59	100		
57	11.9	8.2	12.2

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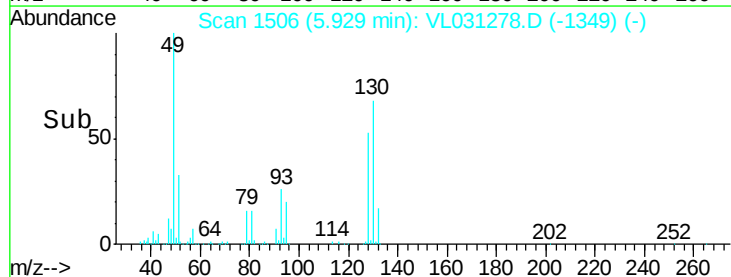
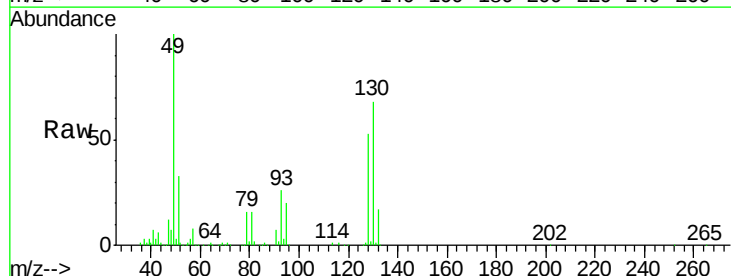
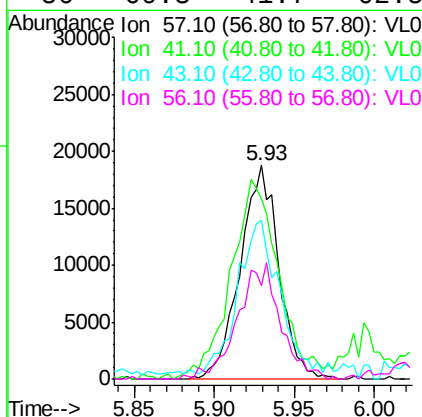
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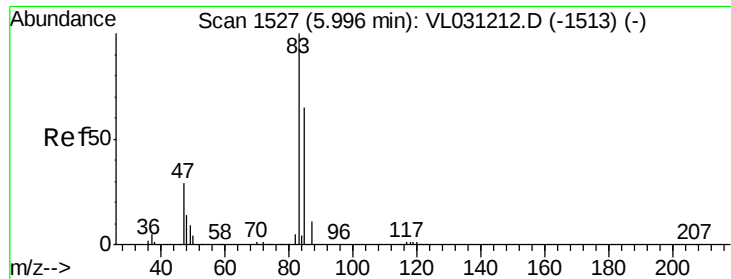


#26

Hexane
 Concen: 0.14 ppbv
 RT: 5.93 min Scan# 1506
 Delta R.T. 0.00 min
 Lab File: VL031278.D
 Acq: 20 Dec 2017 20:41

Tgt Ion	57	Resp	30790
Ion Ratio	Lower	Upper	
57	100		
41	117.9	70.3	105.5#
43	0.0	173.8	260.8#
56	60.3	41.7	62.5





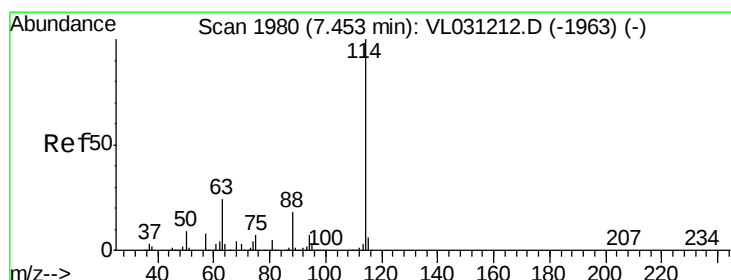
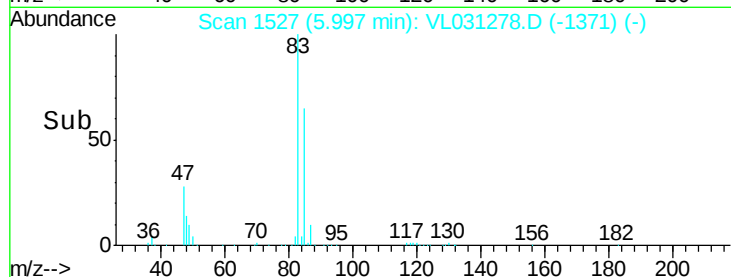
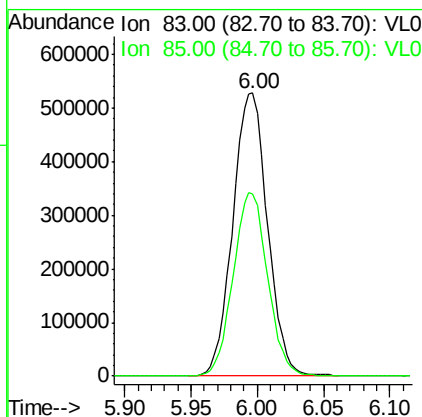
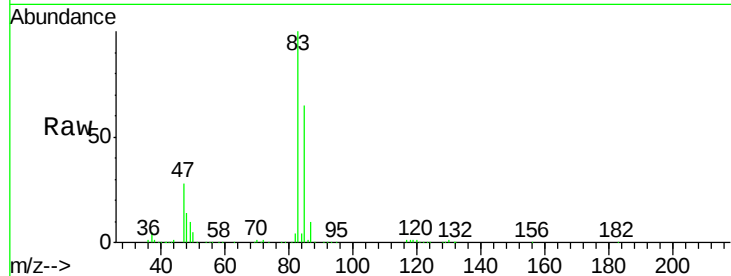
#29
Chloroform
Concen: 3.26 ppbv
RT: 6.00 min Scan# 1527
Delta R.T. 0.00 min
Lab File: VL031278.D
Acq: 20 Dec 2017 20:41

Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-2DL

Tot Ion	83	Resp	960916
Ion Ratio	100	Lower	Upper
83	100		
85	64.5	51.8	77.6

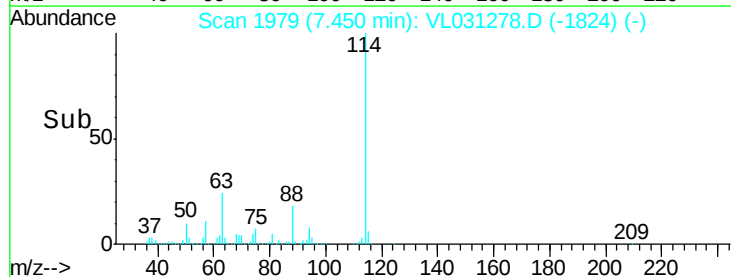
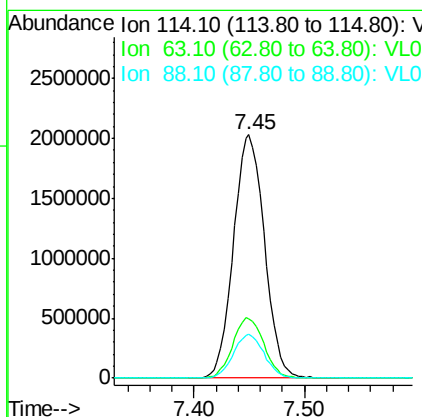
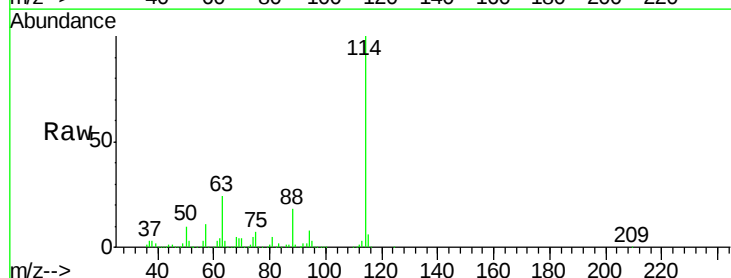
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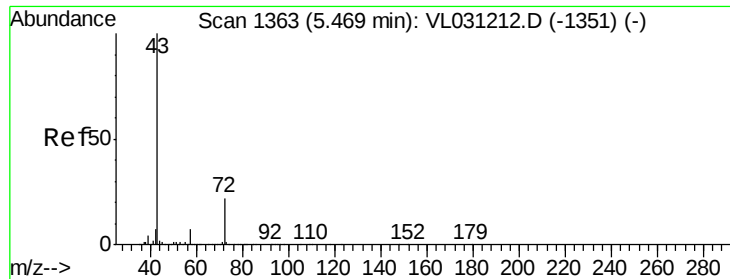
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#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.45 min Scan# 1979
Delta R.T. -0.00 min
Lab File: VL031278.D
Acq: 20 Dec 2017 20:41

Tgt Ion	114	Resp	3952403
Ion Ratio	100	Lower	Upper
114	100		
63	24.8	19.8	29.8
88	17.9	14.2	21.4





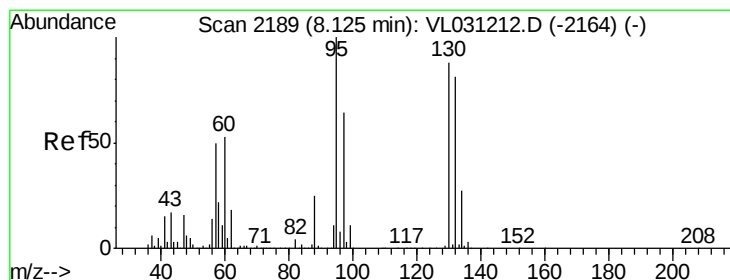
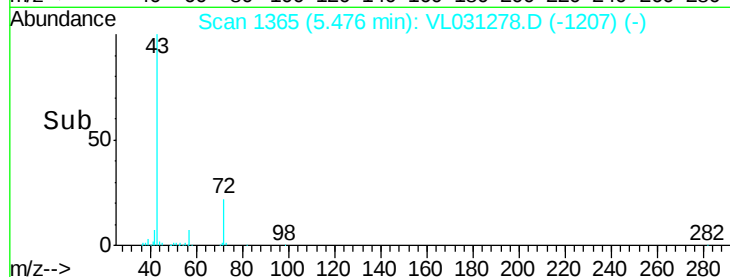
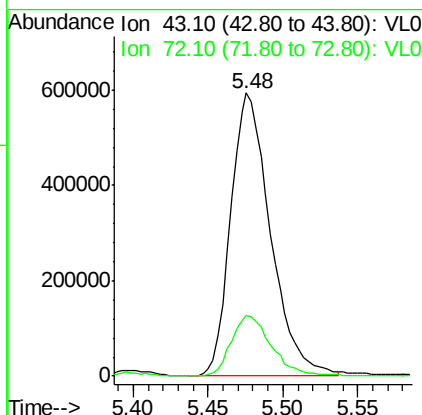
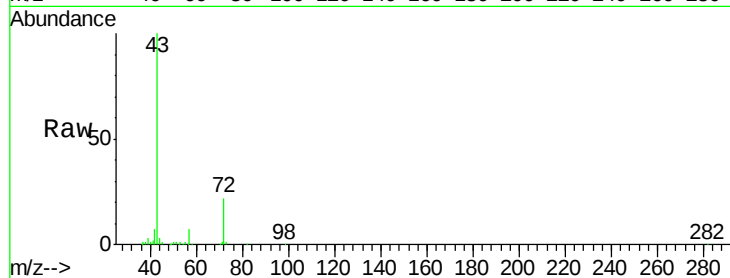
#34
2-Butanone
Concen: 3.93 ppbv
RT: 5.48 min Scan# 1365
Delta R.T. 0.01 min
Lab File: VL031278.D
Acq: 20 Dec 2017 20:41

Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-2DL

Tot Ion: 43 Resp: 1098084
Ion Ratio Lower Upper
43 100
72 22.1 18.1 27.1

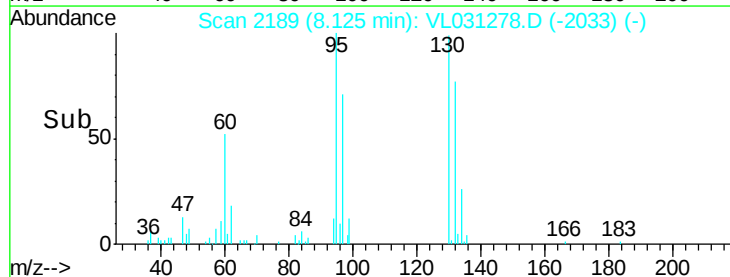
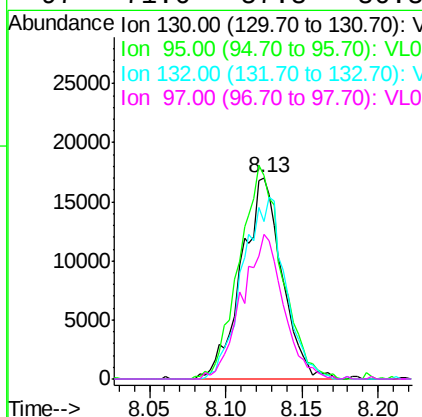
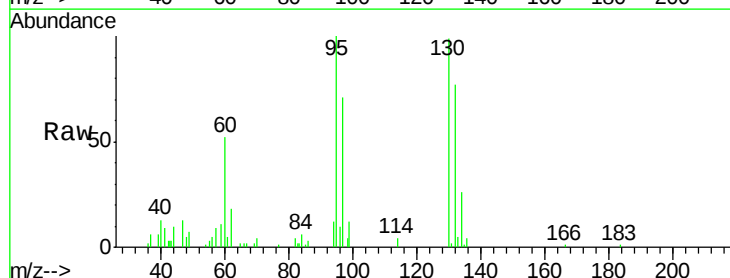
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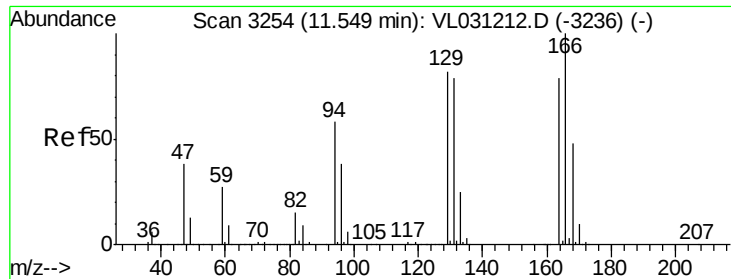
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#38
Trichloroethene
Concen: 0.19 ppbv m
RT: 8.13 min Scan# 2189
Delta R.T. 0.00 min
Lab File: VL031278.D
Acq: 20 Dec 2017 20:41

Tgt Ion:130 Resp: 31298
Ion Ratio Lower Upper
130 100
95 100.9 90.6 135.8
132 78.1 73.5 110.3
97 71.6 57.8 86.8





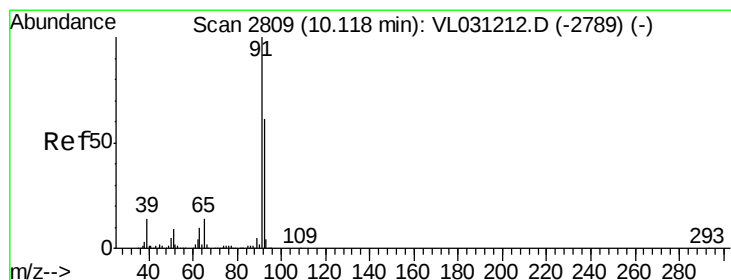
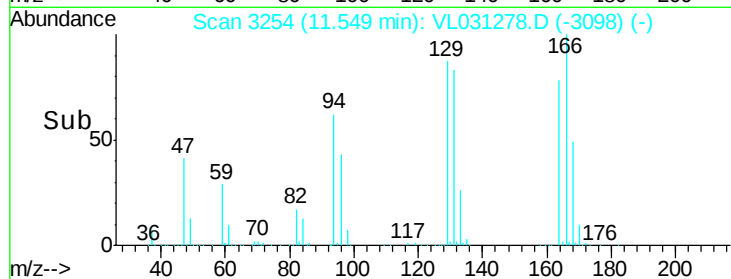
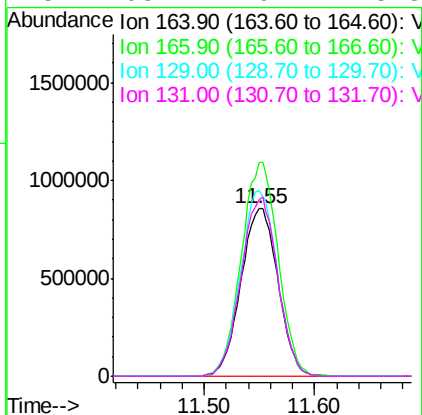
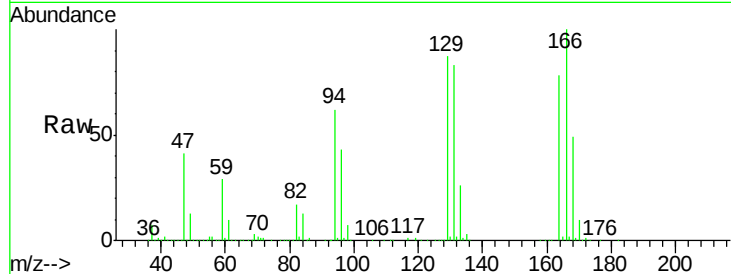
#52
Tetrachloroethene
Concen: 12.90 ppbv
RT: 11.55 min Scan# 3254
Delta R.T. 0.00 min
Lab File: VL031278.D
Acq: 20 Dec 2017 20:41

Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-2DL

Tot Ion	Ratio	Lower	Upper
164	100		
166	127.6	100.6	151.0
129	111.2	82.9	124.3
131	105.4	79.2	118.8

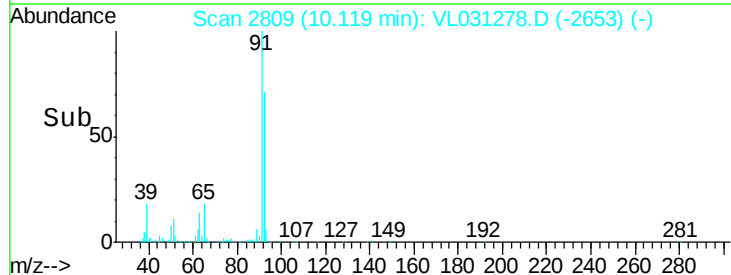
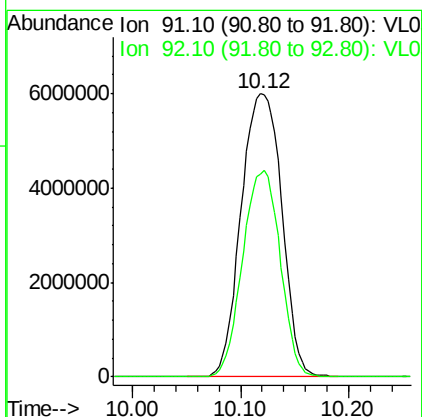
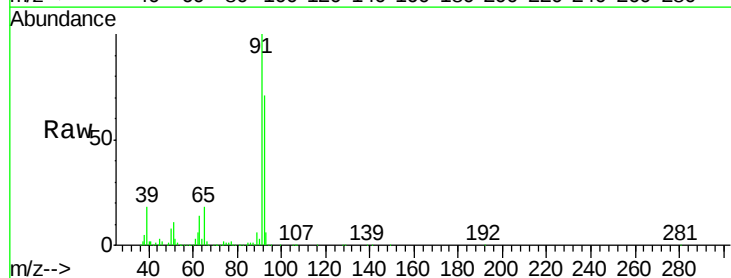
Manual Integrations
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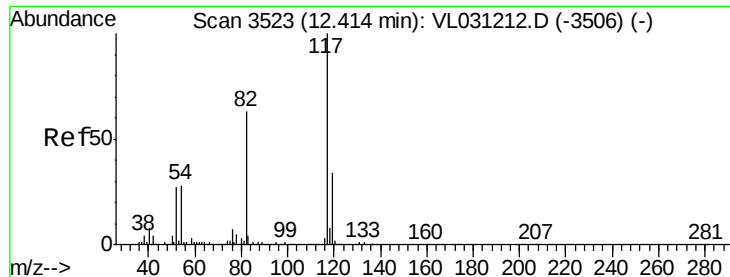
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#53
Toluene
Concen: 34.62 ppbv
RT: 10.12 min Scan# 2809
Delta R.T. 0.00 min
Lab File: VL031278.D
Acq: 20 Dec 2017 20:41

Tgt Ion	Ratio	Lower	Upper
91	100		
92	67.7	49.1	73.7





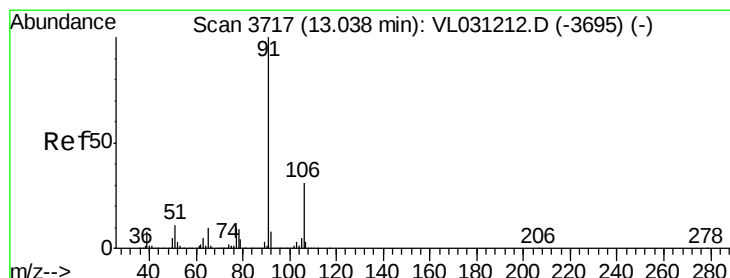
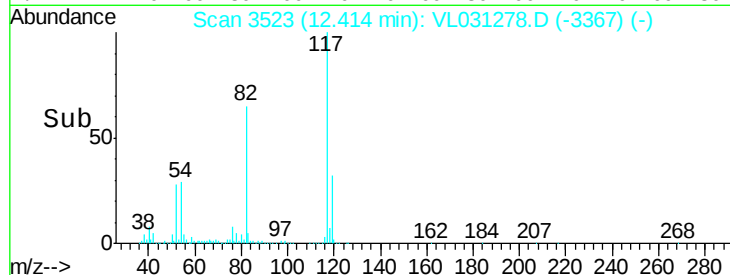
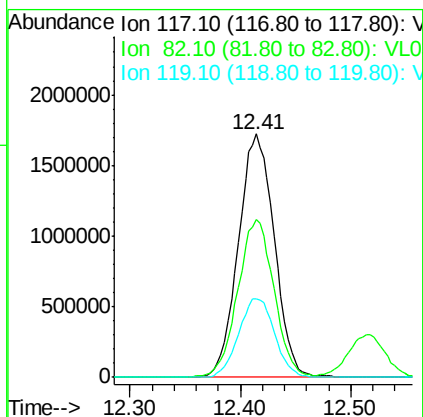
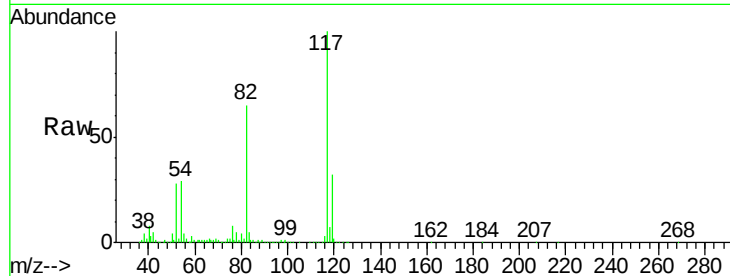
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.41 min Scan# 3523
Delta R.T. 0.00 min
Lab File: VL031278.D
Acq: 20 Dec 2017 20:41

Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-2DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	65.3	48.1	72.1
119	32.7	23.1	34.7

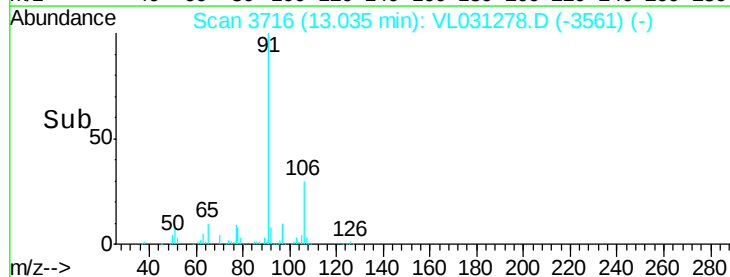
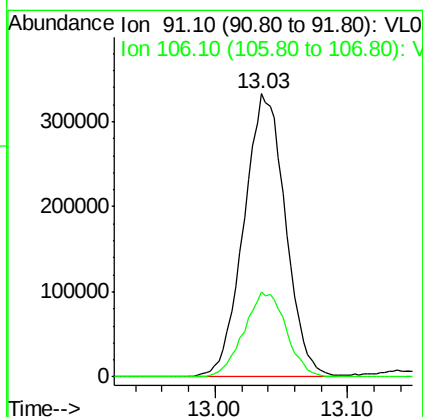
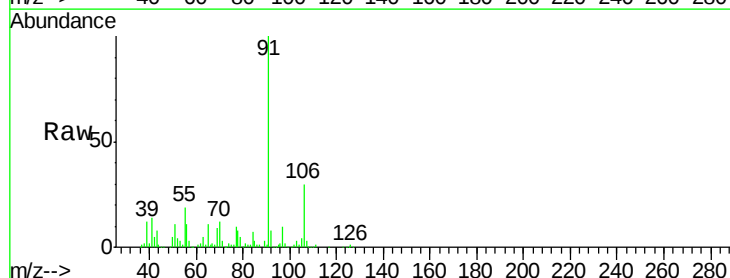
Manual Integrations
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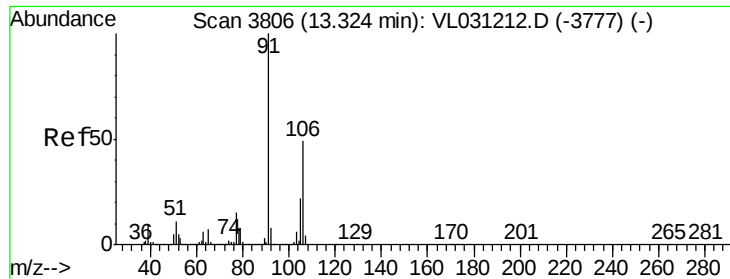
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#58
Ethyl Benzene
Concen: 1.13 ppbv
RT: 13.03 min Scan# 3716
Delta R.T. -0.00 min
Lab File: VL031278.D
Acq: 20 Dec 2017 20:41

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.1	25.1	37.7





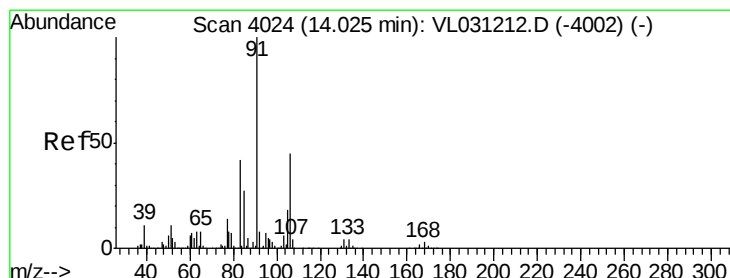
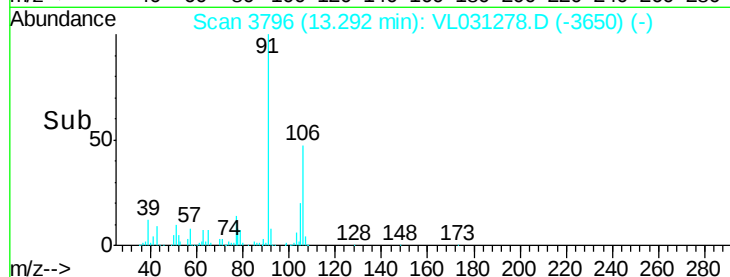
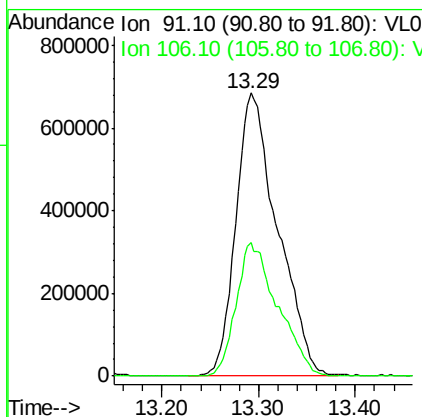
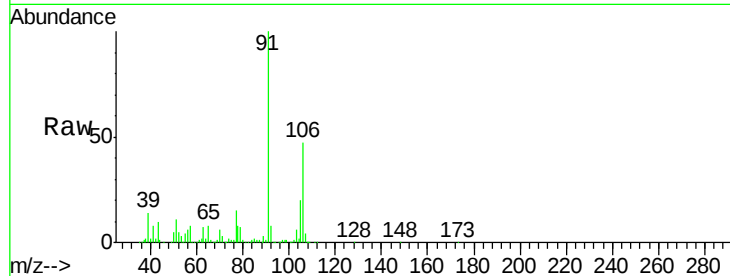
#59
m/p-Xylene
Concen: 3.97 ppbv
RT: 13.29 min Scan# 3796
Delta R.T. -0.03 min
Lab File: VL031278.D
Acq: 20 Dec 2017 20:41

Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-2DL

Tot Ion: 91 Resp: 2039627
Ion Ratio Lower Upper
91 100
106 47.3 38.5 57.7

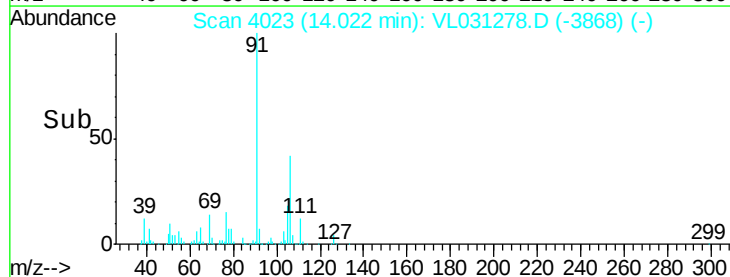
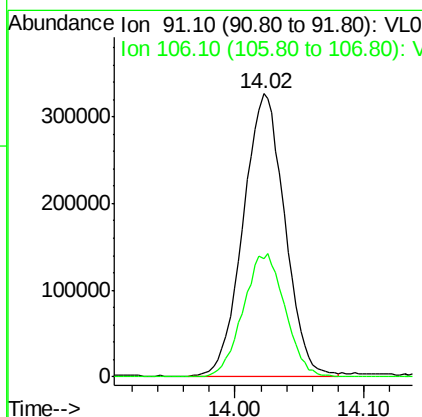
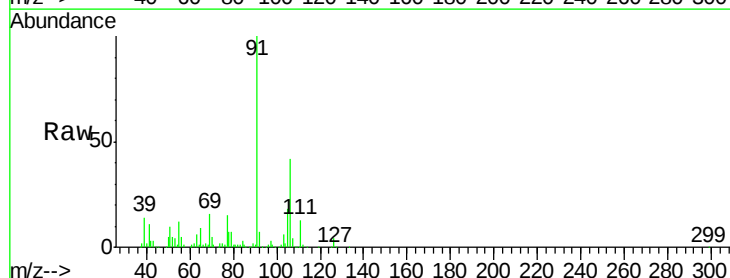
Manual Integrations
APPROVED

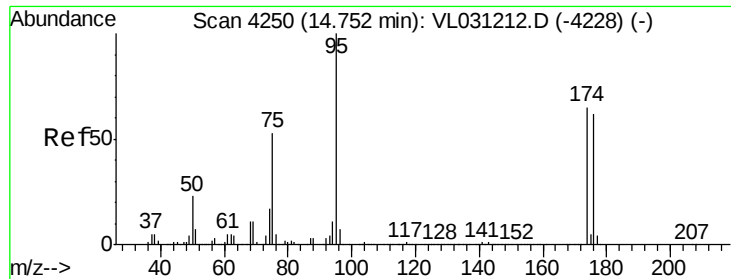
MMDadoda
12/22/2017 4:54:54 PM



#60
o-Xylene
Concen: 1.41 ppbv
RT: 14.02 min Scan# 4023
Delta R.T. -0.00 min
Lab File: VL031278.D
Acq: 20 Dec 2017 20:41

Tgt Ion: 91 Resp: 730944
Ion Ratio Lower Upper
91 100
106 44.2 22.7 68.1





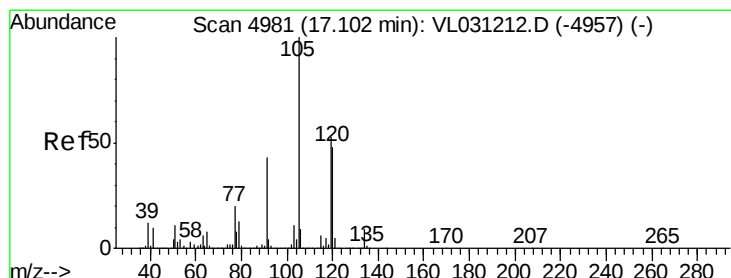
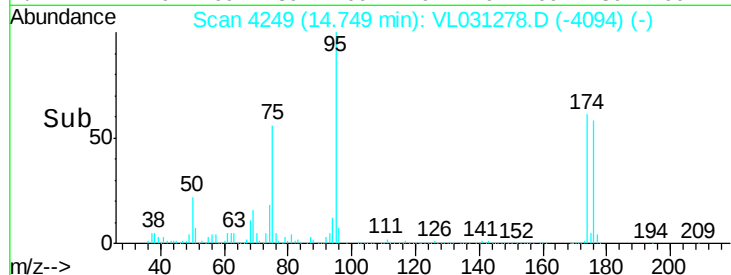
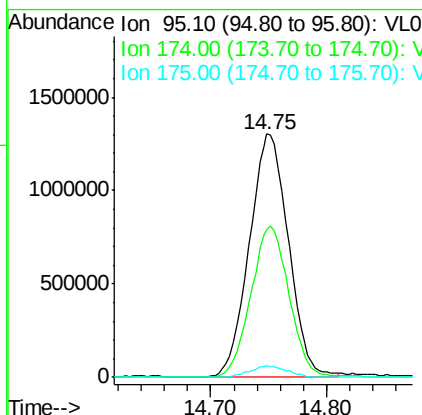
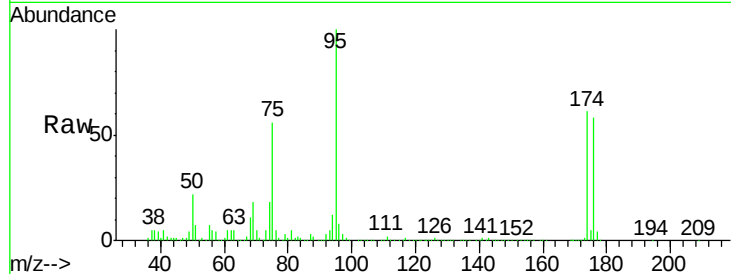
#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.04 ppbv
 RT: 14.75 min Scan# 4249
 Delta R.T. -0.00 min
 Lab File: VL031278.D
 Acq: 20 Dec 2017 20:41

Instrument :
 MSVOA_L
 ClientSampleId :
 EP1-SV-2DL

Tot Ion: 95 Resp: 3051838
 Ion Ratio Lower Upper
 95 100
 174 61.7 52.5 78.7
 175 4.6 4.1 6.1

Manual Integrations
 APPROVED

MMDadoda
 12/22/2017 4:54:54 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.16 ppbv m
 RT: 17.09 min Scan# 4978
 Delta R.T. -0.01 min
 Lab File: VL031278.D
 Acq: 20 Dec 2017 20:41

Tgt Ion: 105 Resp: 84404
 Ion Ratio Lower Upper
 105 100
 120 45.6 38.6 58.0
 91 17.0 34.2 51.4#
 77 34.6 16.1 24.1#

