

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL122017\
 Data File : VL031289.D
 Acq On : 21 Dec 2017 3:55
 Operator : SY/AP
 Sample : I7005-09
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EP1-SV-8

Manual Integrations
 APPROVED

MMDadoda
 12/22/2017 4:55:08 PM

Quant Time: Dec 22 06:49:55 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	5.92	49	1433346	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.46	114	3481460	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	3194775	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	2535624	11.16	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	111.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.18	85	43211	0.36	ppbv	95
9) Propene	3.13	41	1360451	17.01	ppbv	98
10) Heptane	8.41	43	267285	1.10	ppbv	99
11) Trichlorofluoromethane	4.13	101	423347	2.13	ppbv	100
13) Ethanol	3.77	45	262191	11.36	ppbv	99
15) Acetone	4.03	43	4331030	22.90	ppbv #	53
17) tert-Butyl alcohol	4.50	59	438070	4.13	ppbv	95
20) Methylene Chloride	4.55	84	53651	0.86	ppbv #	86
26) Hexane	5.93	57	524658	2.86	ppbv #	36
27) Carbon Disulfide	4.76	76	340380	1.85	ppbv	97
29) Chloroform	6.00	83	70993	0.29	ppbv	96
30) Cyclohexane	7.41	84	127459	0.79	ppbv #	86
32) 1,1,1-Trichloroethane	6.78	97	40411	0.15	ppbv	98
34) 2-Butanone	5.47	43	12521152	50.92	ppbv	91
35) Carbon Tetrachloride	7.30	117	51275	0.21	ppbv	94
36) Benzene	7.17	78	3286594	8.91	ppbv	98
44) 2,2,4-Trimethylpentane	8.15	57	644530	1.16	ppbv #	81
50) 4-Methyl-2-Pentanone	9.05	43	47650	0.16	ppbv	100
51) 2-Hexanone	10.44	43	1653903	5.76	ppbv #	98
52) Tetrachloroethene	11.55	164	2003535	14.72	ppbv	97
53) Toluene	10.12	91	633977	1.58	ppbv	99
58) Ethyl Benzene	13.04	91	157948	0.30	ppbv	99
59) m/p-Xylene	13.29	91	459461	1.09	ppbv	98
60) o-Xylene	14.02	91	153736	0.36	ppbv	100
61) Styrene	13.86	104	51219	0.42	ppbv	92
62) Isopropylbenzene	15.00	105	50183	0.09	ppbv	96
64) n-propylbenzene	15.89	120	17765m	0.12	ppbv	
72) 4-Ethyltoluene	16.17	105	67240m	0.14	ppbv	
73) 1,3,5-Trimethylbenzene	16.33	105	80698	0.19	ppbv	100
74) 1,2,4-Trimethylbenzene	17.09	105	134992	0.31	ppbv #	72

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

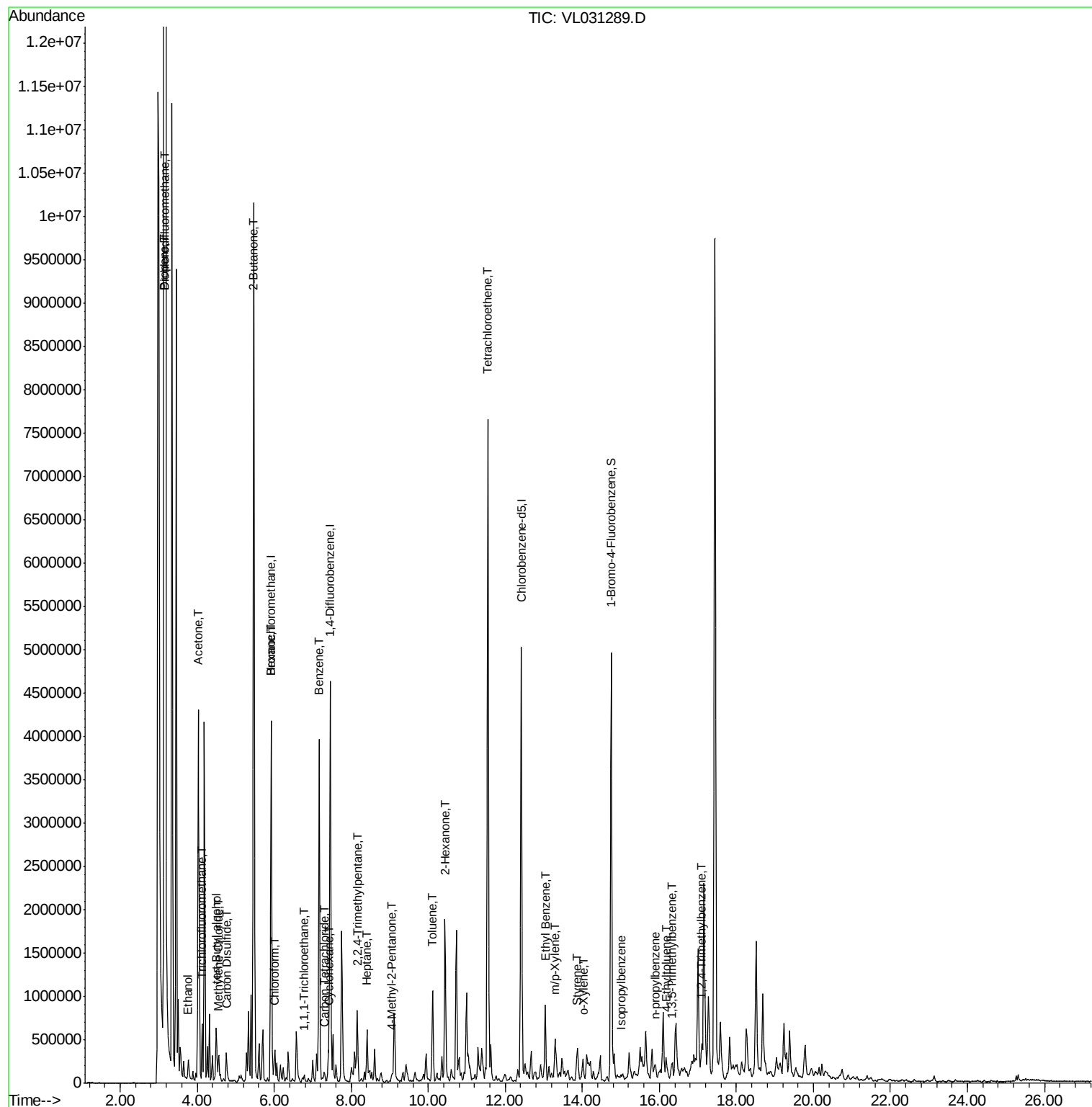
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL122017\
Data File : VL031289.D
Acq On : 21 Dec 2017 3:55
Operator : SY/AP
Sample : I7005-09
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

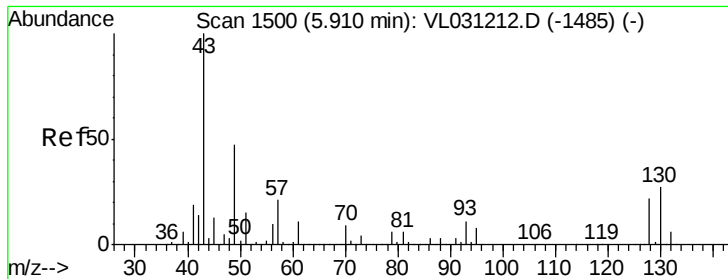
Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-8

Manual Integrations
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Quant Time: Dec 22 06:49:55 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: 5.92 min Scan# 1502

Delta R.T. 0.01 min

Lab File: VL031289.D

Acq: 21 Dec 2017 3:55

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-8

Tot Ion: 49 Resp: 1433346

Ion Ratio Lower Upper

49 100

128 48.9 23.2 69.5

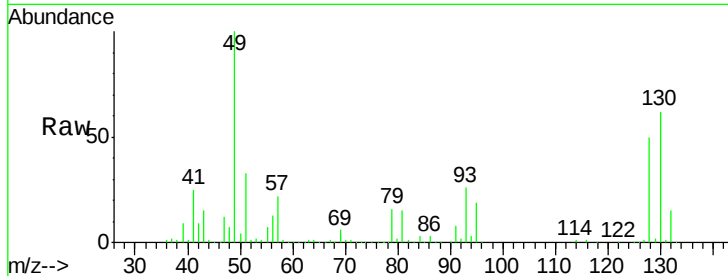
130 63.1 29.6 88.8

Manual Integrations

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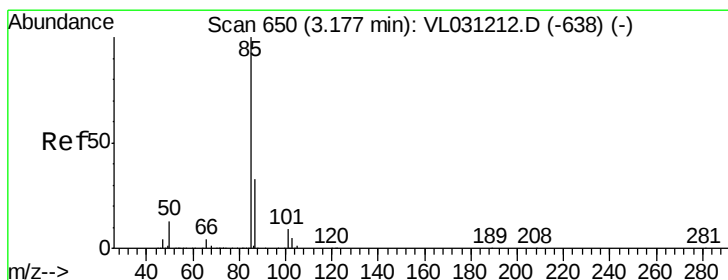
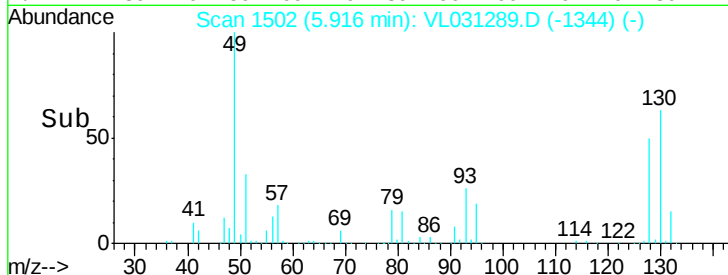
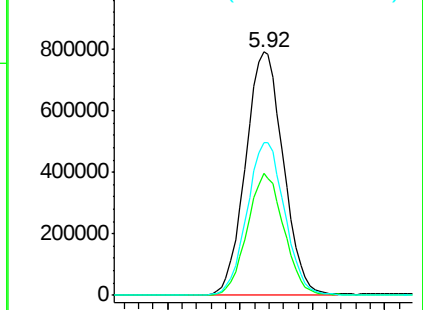
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.36 ppbv

RT: 3.18 min Scan# 651

Delta R.T. 0.00 min

Lab File: VL031289.D

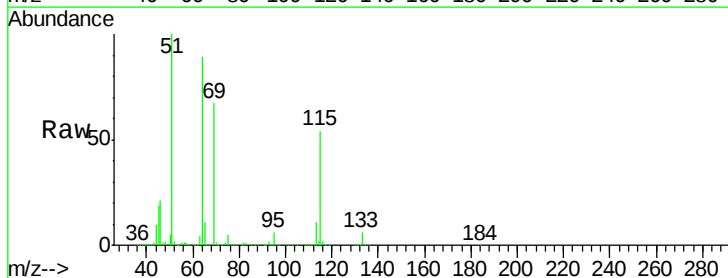
Acq: 21 Dec 2017 3:55

Tgt Ion: 85 Resp: 43211

Ion Ratio Lower Upper

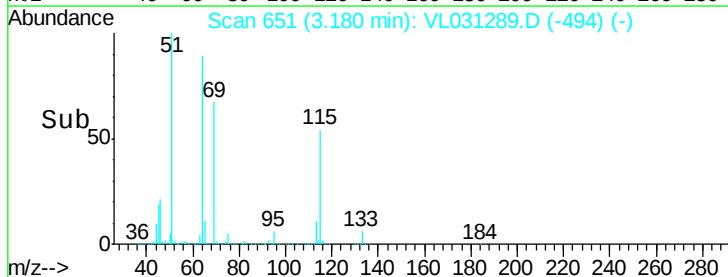
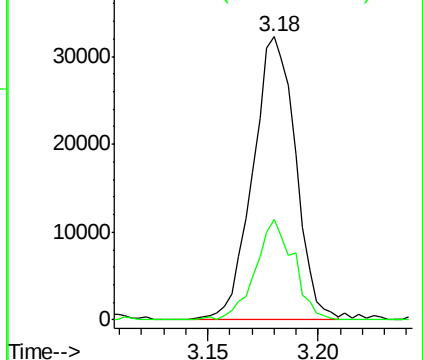
85 100

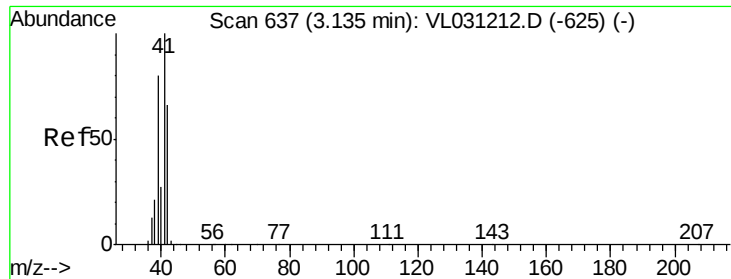
87 35.5 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#9

Propene

Concen: 17.01 ppbv

RT: 3.13 min Scan# 637

Delta R.T. 0.00 min

Lab File: VL031289.D

Acq: 21 Dec 2017 3:55

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-8

Tot Ion: 41 Resp: 1360451

Ion Ratio Lower Upper

41 100

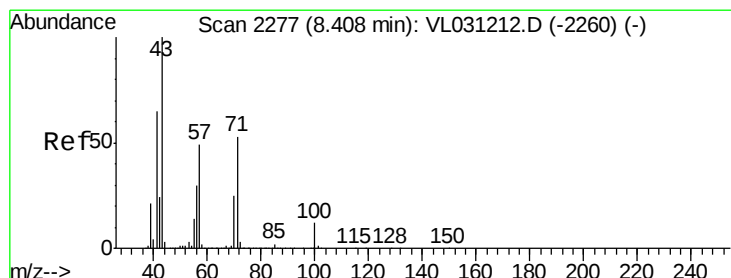
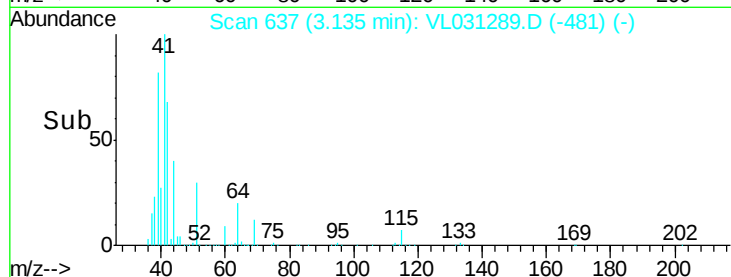
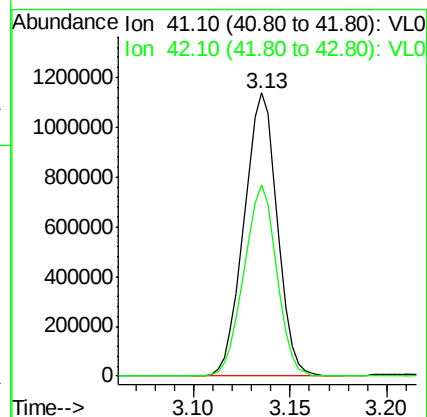
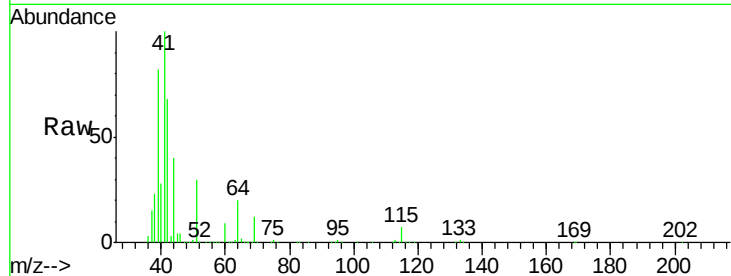
42 66.3 54.3 81.5

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#10

Heptane

Concen: 1.10 ppbv

RT: 8.41 min Scan# 2278

Delta R.T. 0.00 min

Lab File: VL031289.D

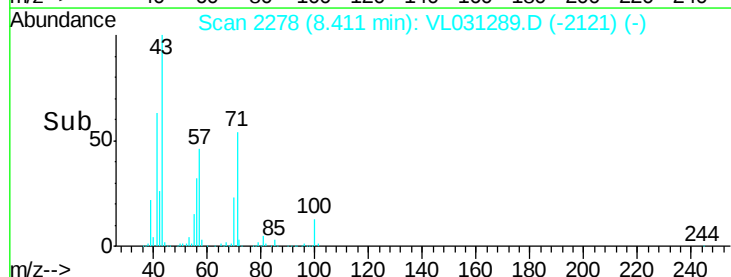
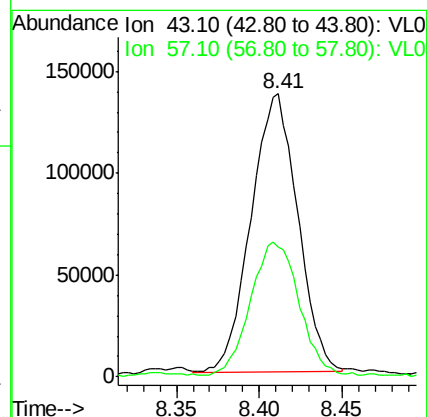
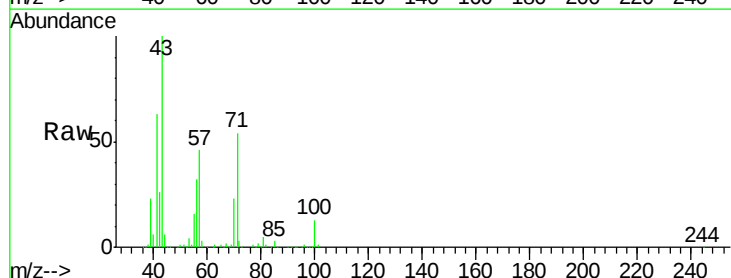
Acq: 21 Dec 2017 3:55

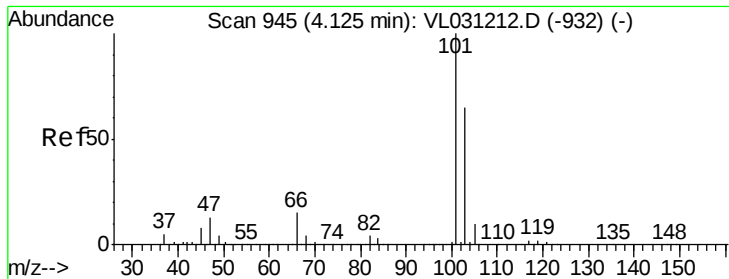
Tgt Ion: 43 Resp: 267285

Ion Ratio Lower Upper

43 100

57 50.4 39.8 59.8





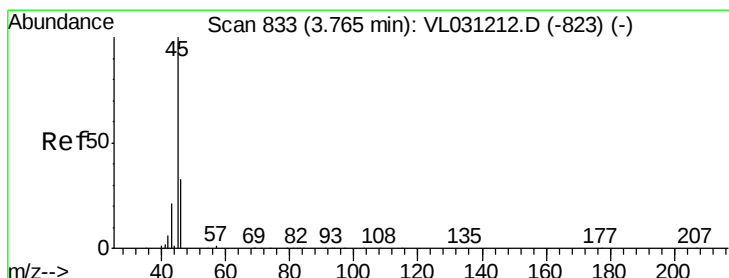
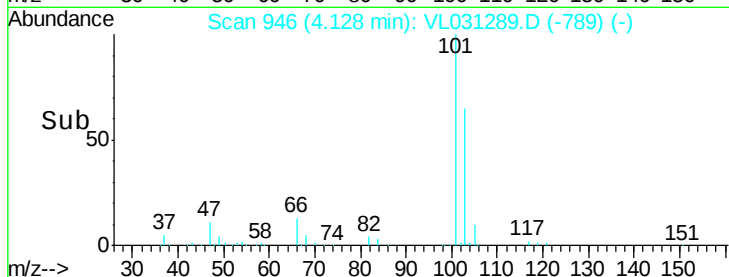
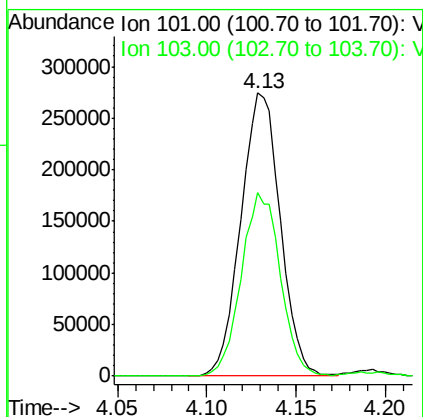
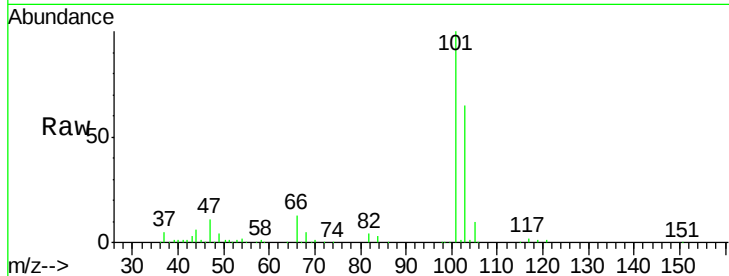
#11
 Trichlorofluoromethane
 Concen: 2.13 ppbv
 RT: 4.13 min Scan# 946
 Delta R.T. 0.00 min
 Lab File: VL031289.D
 Acq: 21 Dec 2017 3:55

Instrument :
 MSVOA_L
 ClientSampleId :
 EP1-SV-8

Tot Ion:101 Resp: 423347
 Ion Ratio Lower Upper
 101 100
 103 64.9 51.8 77.8

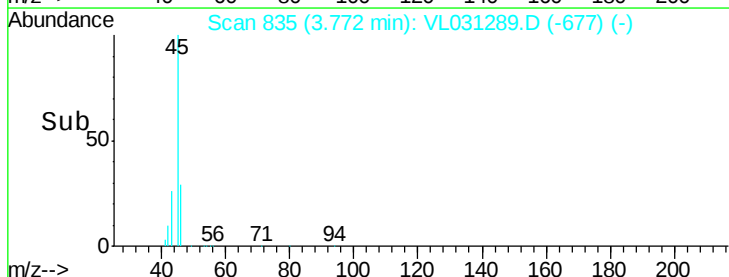
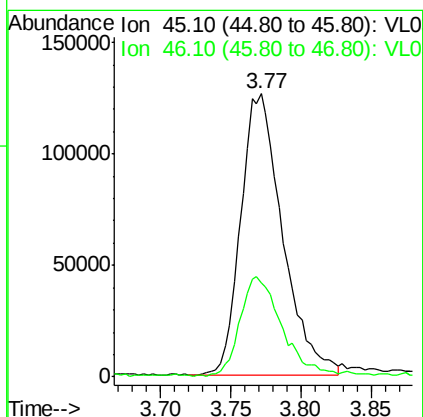
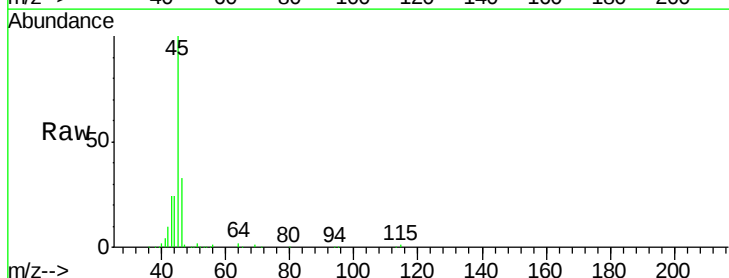
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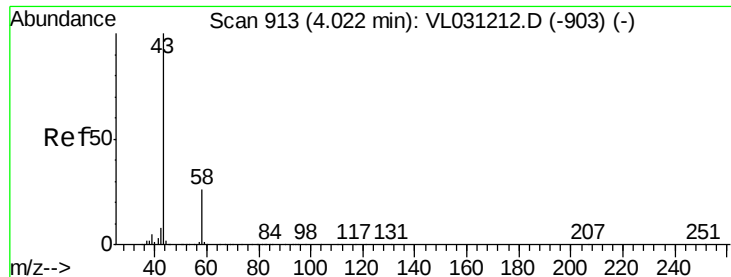
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#13
 Ethanol
 Concen: 11.36 ppbv
 RT: 3.77 min Scan# 835
 Delta R.T. 0.01 min
 Lab File: VL031289.D
 Acq: 21 Dec 2017 3:55

Tgt Ion: 45 Resp: 262191
 Ion Ratio Lower Upper
 45 100
 46 36.1 14.6 58.4





#15

Acetone

Concen: 22.90 ppbv

RT: 4.03 min Scan# 914

Delta R.T. 0.00 min

Lab File: VL031289.D

Acq: 21 Dec 2017 3:55

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-8

Tot Ion: 43 Resp: 4331030

Ion Ratio Lower Upper

43 100

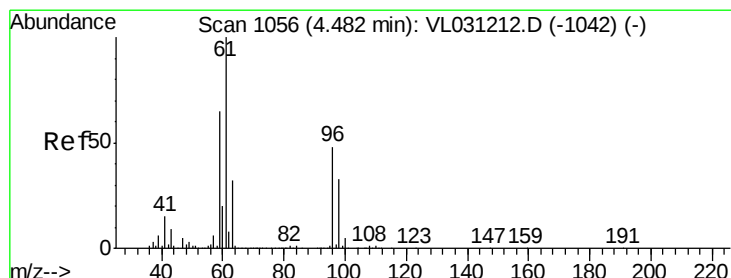
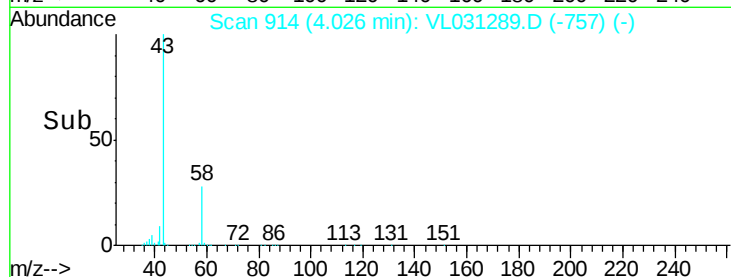
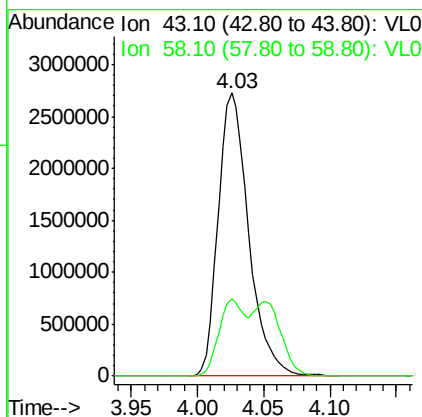
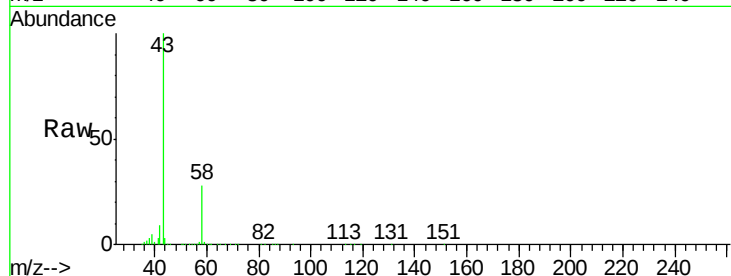
58 48.9 20.3 30.5#

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#17

tert-Butyl alcohol

Concen: 4.13 ppbv

RT: 4.50 min Scan# 1060

Delta R.T. 0.01 min

Lab File: VL031289.D

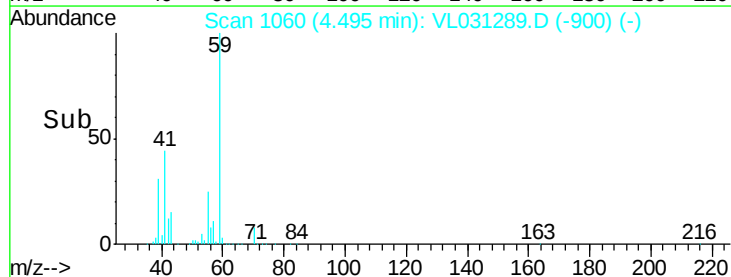
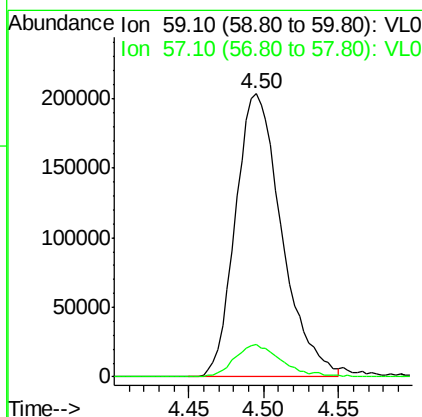
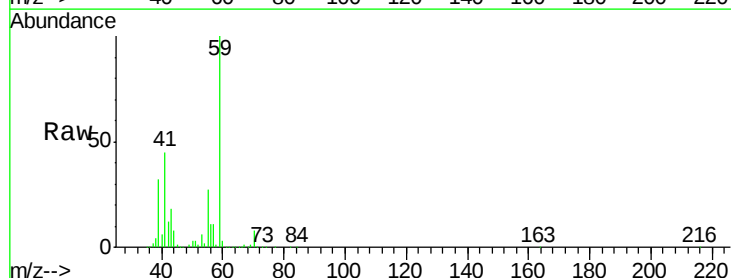
Acq: 21 Dec 2017 3:55

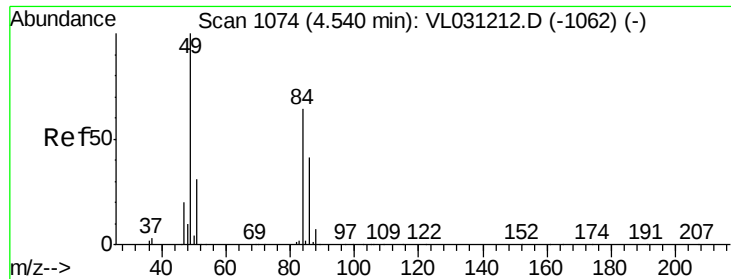
Tgt Ion: 59 Resp: 438070

Ion Ratio Lower Upper

59 100

57 11.9 8.2 12.2





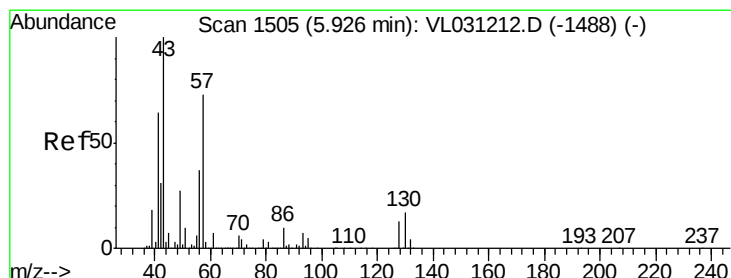
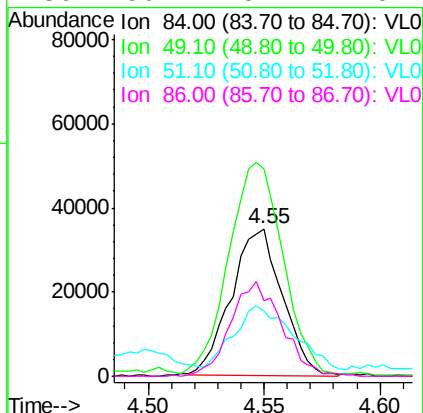
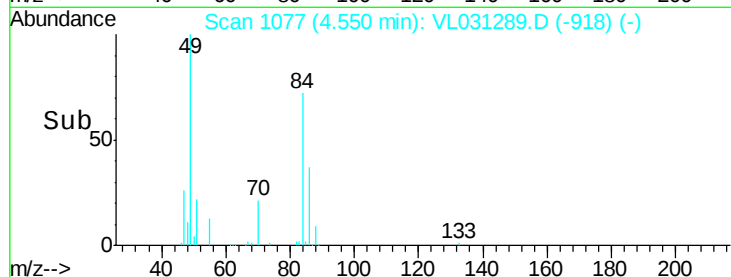
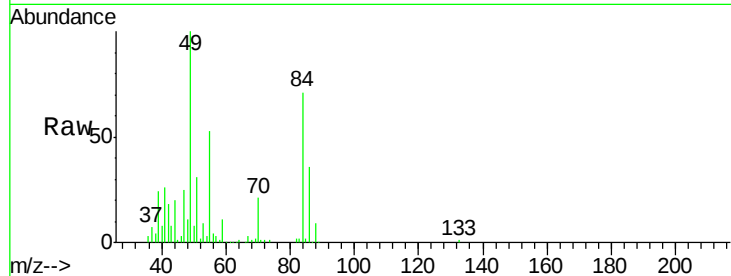
#20
Methvlene Chloride
Concen: 0.86 ppbv
RT: 4.55 min Scan# 1077
Delta R.T. 0.01 min
Lab File: VL031289.D
Acq: 21 Dec 2017 3:55

Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-8

Tot Ion	Ratio	Lower	Upper
84	100		
49	140.6	125.8	188.6
51	39.2	39.3	58.9#
86	50.7	51.1	76.7#

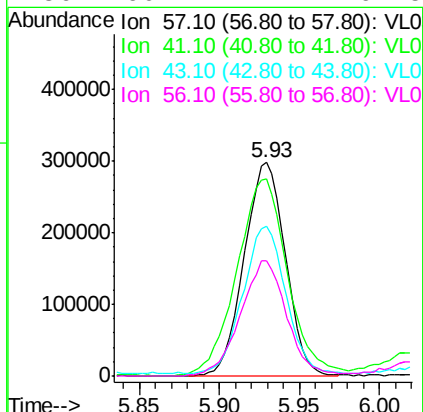
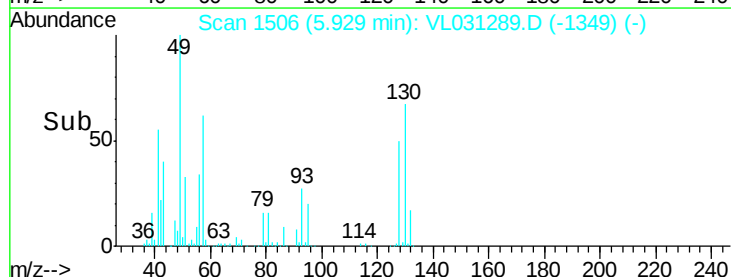
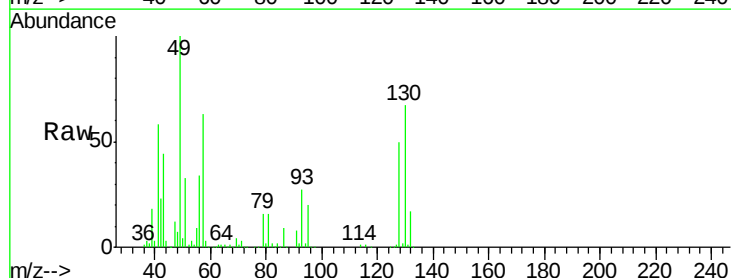
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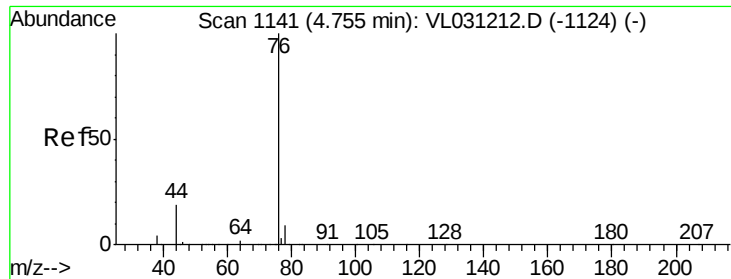
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#26
Hexane
Concen: 2.86 ppbv
RT: 5.93 min Scan# 1506
Delta R.T. 0.00 min
Lab File: VL031289.D
Acq: 21 Dec 2017 3:55

Tgt Ion	Ratio	Lower	Upper
57	100		
41	113.7	70.3	105.5#
43	71.5	173.8	260.8#
56	60.4	41.7	62.5





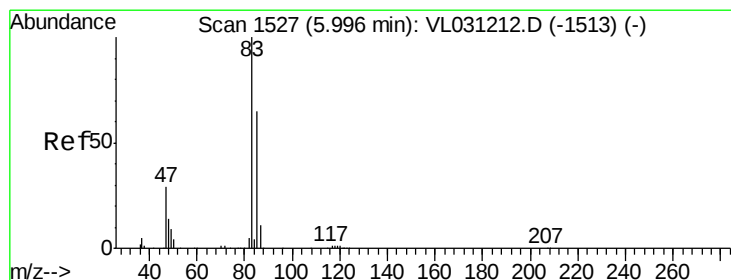
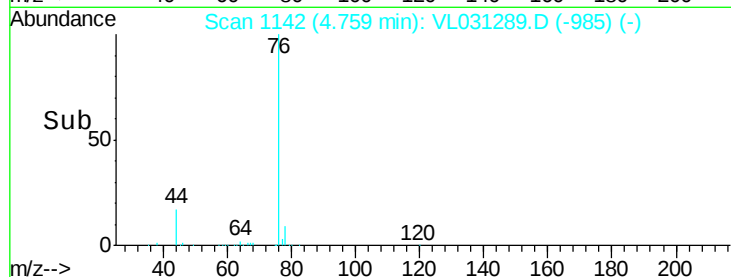
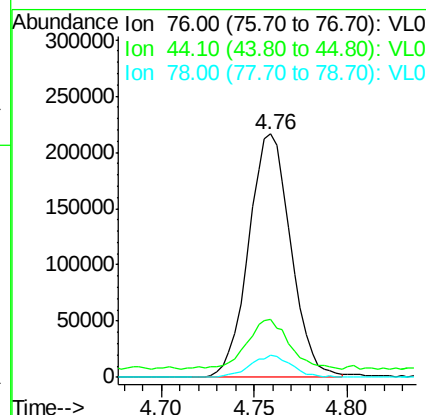
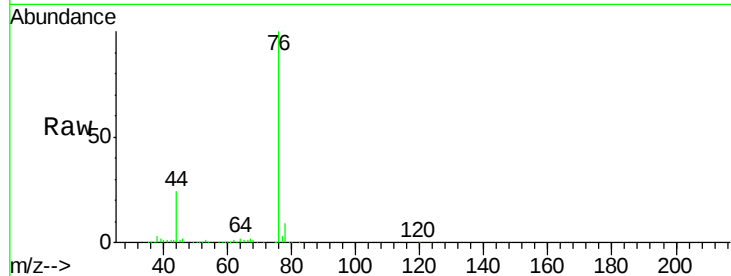
#27
Carbon Disulfide
Concen: 1.85 ppbv
RT: 4.76 min Scan# 1142
Delta R.T. 0.00 min
Lab File: VL031289.D
Acq: 21 Dec 2017 3:55

Instrument :
MSVOA_L
ClientSampled :
EP1-SV-8

Tot Ion	Ratio	Lower	Upper
76	100		
44	22.1	16.0	24.0
78	9.1	7.5	11.3

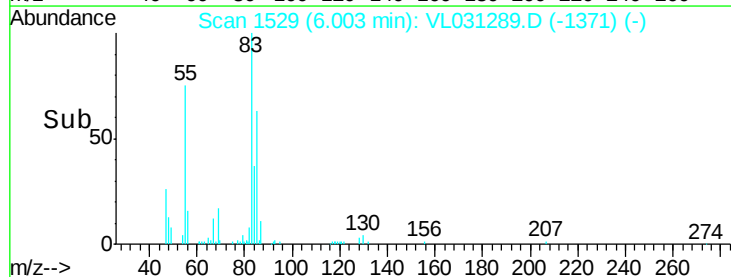
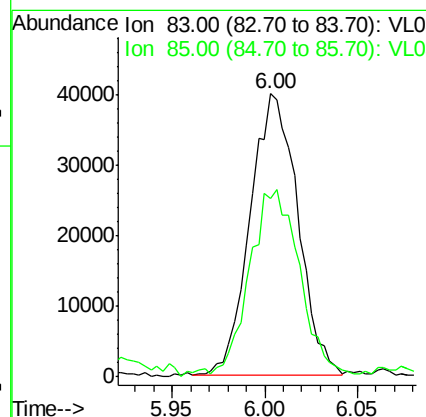
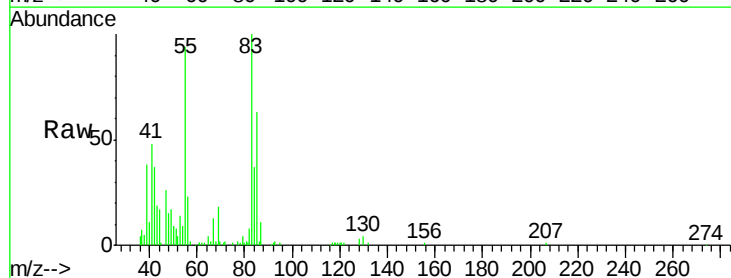
Manual Integrations
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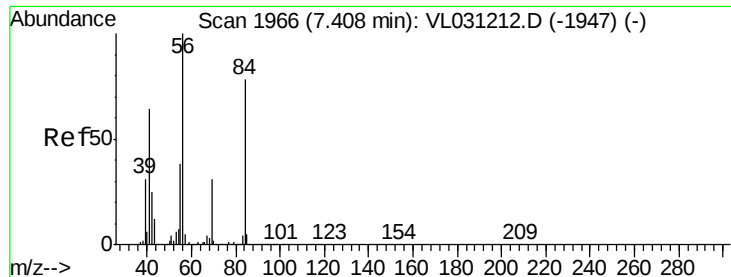
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#29
Chloroform
Concen: 0.29 ppbv
RT: 6.00 min Scan# 1529
Delta R.T. 0.01 min
Lab File: VL031289.D
Acq: 21 Dec 2017 3:55

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.7	51.8	77.6





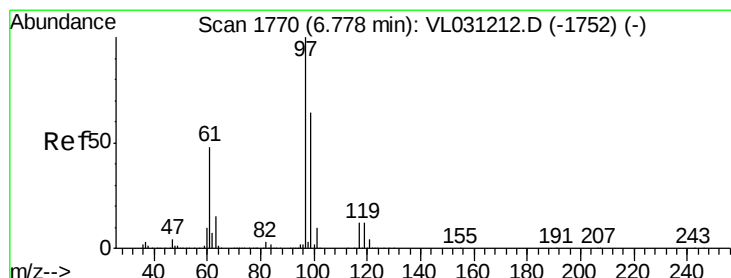
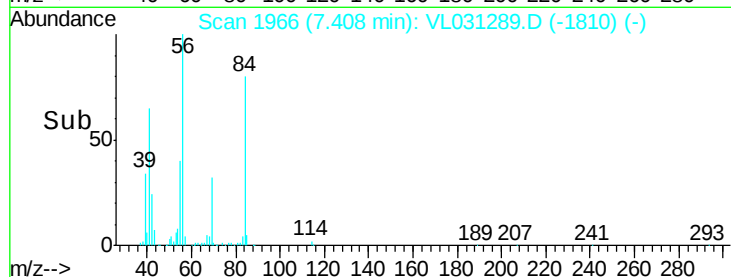
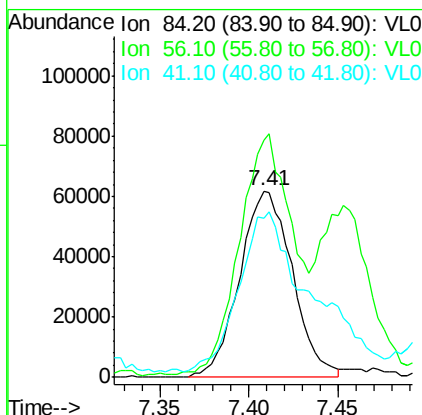
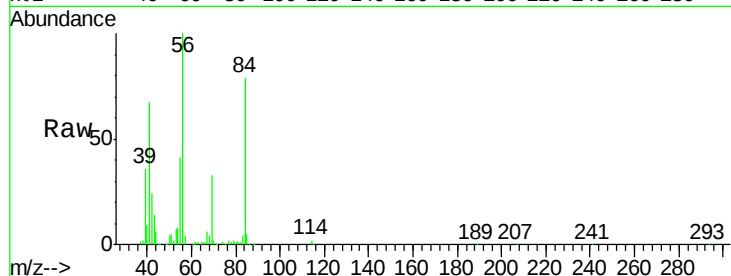
#30
Cvclohexane
Concen: 0.79 ppbv
RT: 7.41 min Scan# 1966
Delta R.T. 0.00 min
Lab File: VL031289.D
Acq: 21 Dec 2017 3:55

Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-8

Tot Ion	Ratio	Lower	Upper
84	100		
56	135.0	108.0	162.0
41	115.4	66.2	99.4#

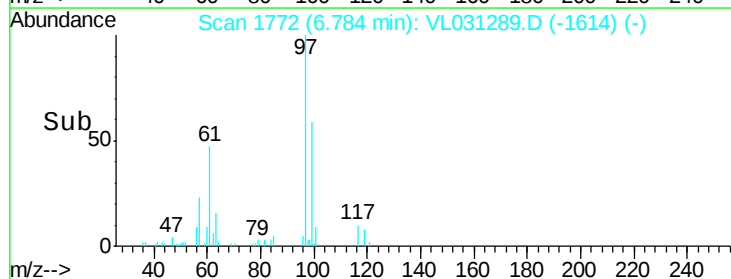
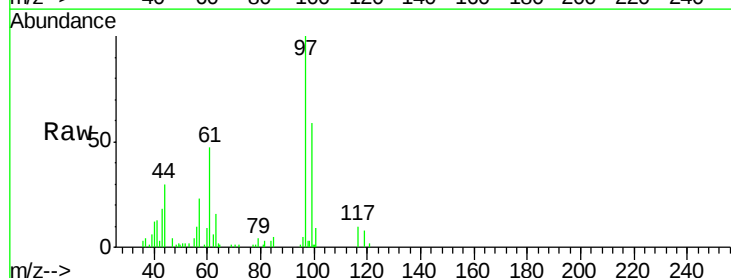
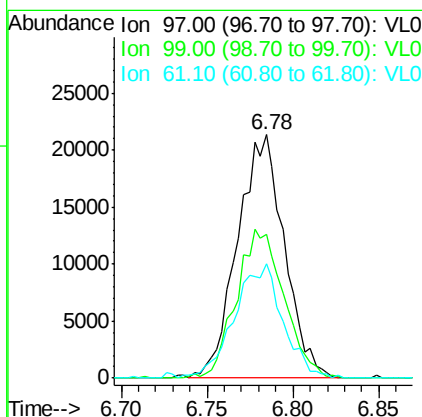
Manual Integrations
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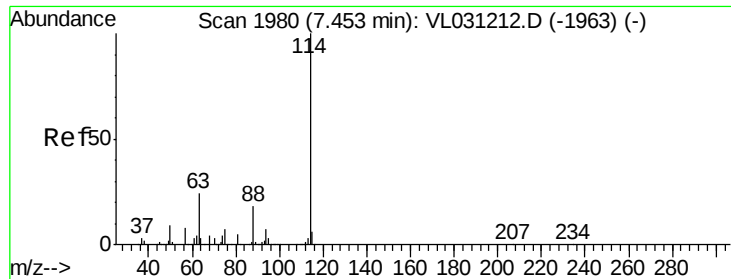
MMDadoda
12/22/2017 4:55:08 PM



#32
1,1,1-Trichloroethane
Concen: 0.15 ppbv
RT: 6.78 min Scan# 1772
Delta R.T. 0.01 min
Lab File: VL031289.D
Acq: 21 Dec 2017 3:55

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.2	51.4	77.0
61	48.8	38.4	57.6





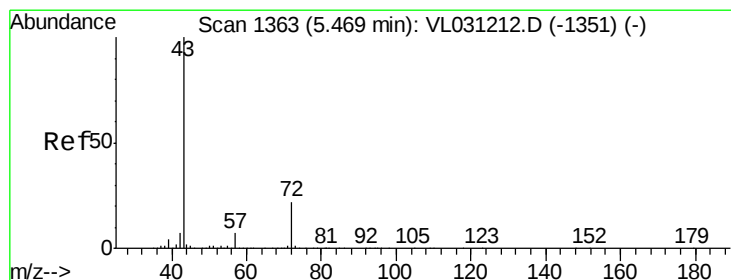
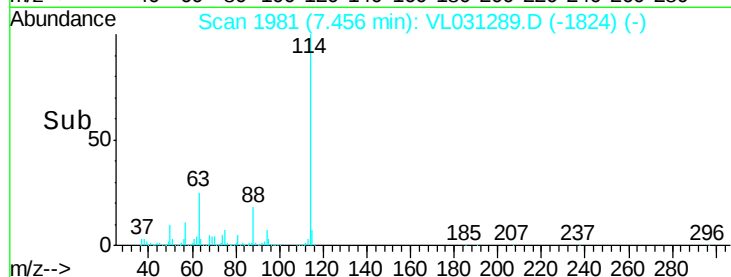
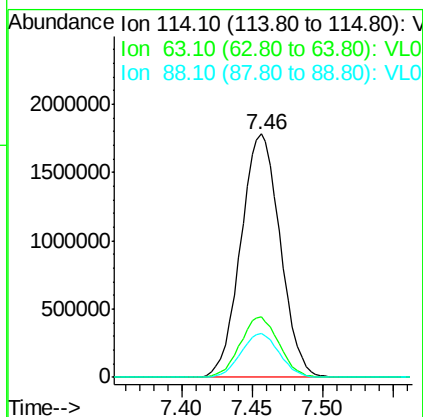
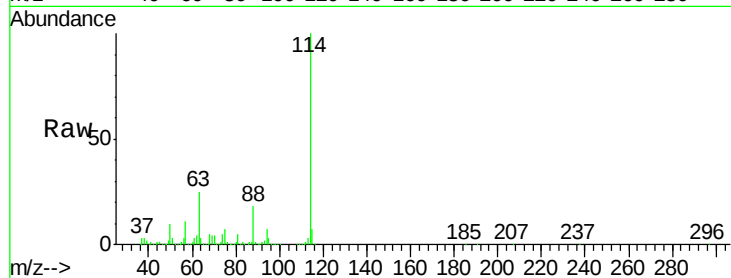
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.46 min Scan# 1981
 Delta R.T. 0.00 min
 Lab File: VL031289.D
 Acq: 21 Dec 2017 3:55

Instrument :
 MSVOA_L
 ClientSampleId :
 EP1-SV-8

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.5	19.8	29.8
88	17.7	14.2	21.4

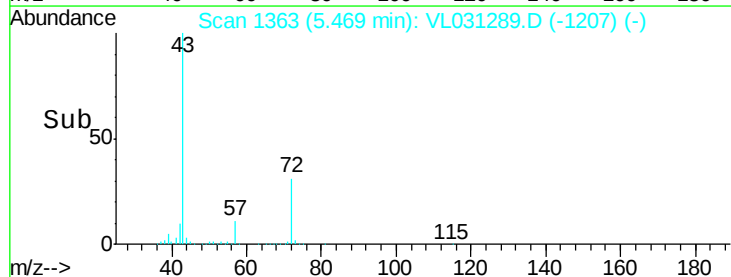
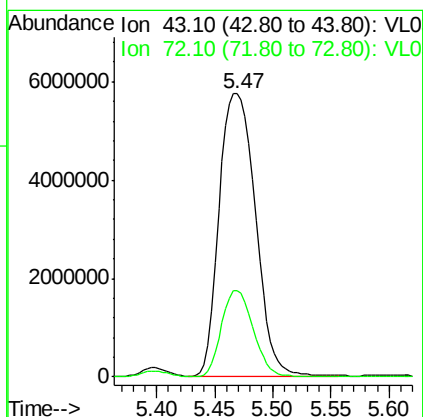
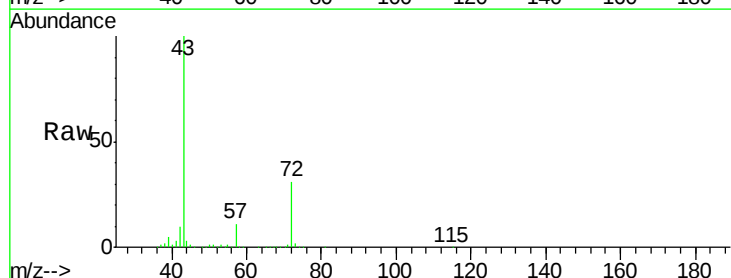
Manual Integrations
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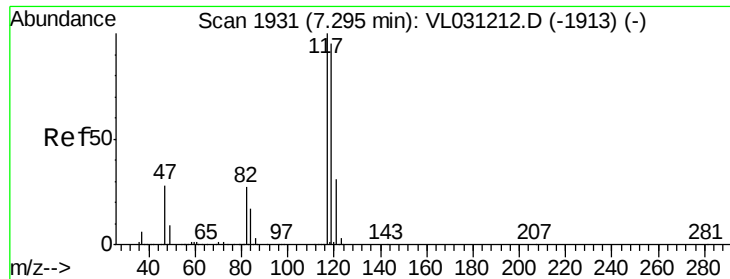
MMDadoda
 12/22/2017 4:55:08 PM



#34
 2-Butanone
 Concen: 50.92 ppbv
 RT: 5.47 min Scan# 1363
 Delta R.T. 0.00 min
 Lab File: VL031289.D
 Acq: 21 Dec 2017 3:55

Tgt Ion	Ratio	Lower	Upper
43	100		
72	26.9	18.1	27.1





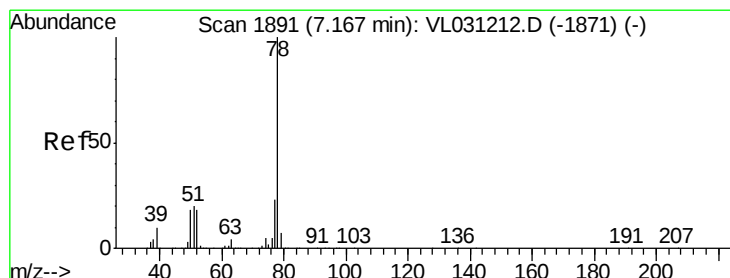
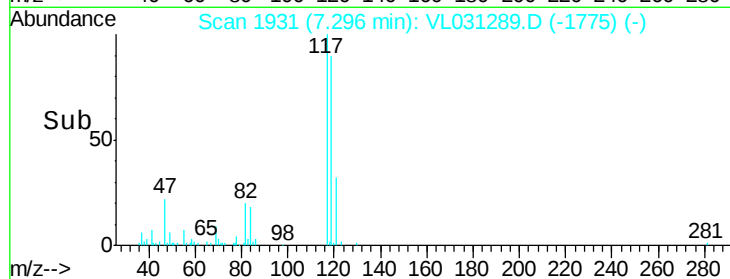
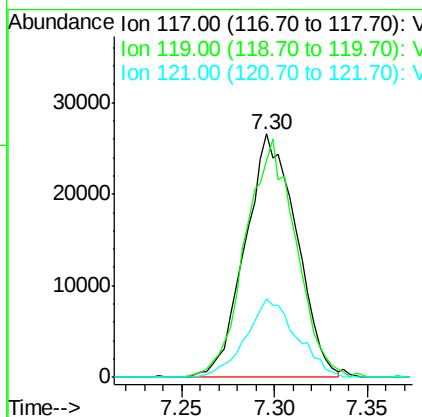
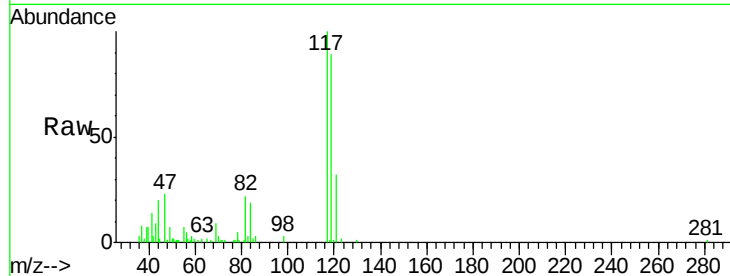
#35
Carbon Tetrachloride
Concen: 0.21 ppbv
RT: 7.30 min Scan# 1931
Delta R.T. 0.00 min
Lab File: VL031289.D
Acq: 21 Dec 2017 3:55

Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-8

Tot Ion	Ratio	Lower	Upper
117	100		
119	88.4	75.9	113.9
121	32.2	24.6	37.0

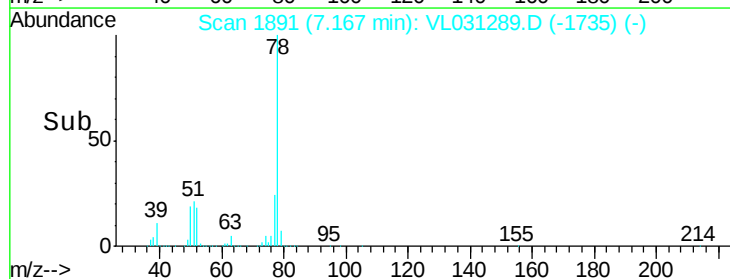
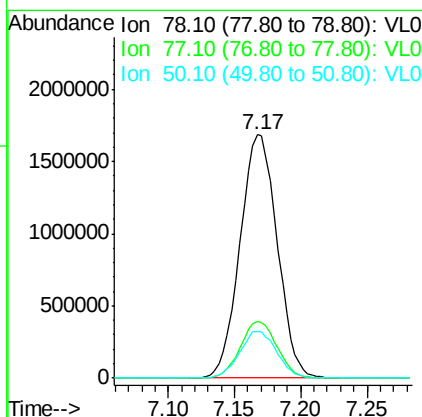
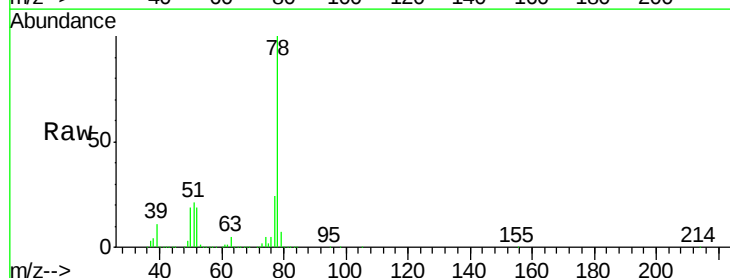
Manual Integrations
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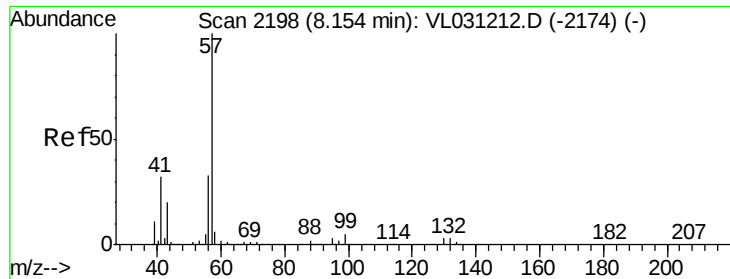
MMDadoda
12/22/2017 4:55:08 PM



#36
Benzene
Concen: 8.91 ppbv
RT: 7.17 min Scan# 1891
Delta R.T. 0.00 min
Lab File: VL031289.D
Acq: 21 Dec 2017 3:55

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.1	27.1
50	19.0	14.6	21.8





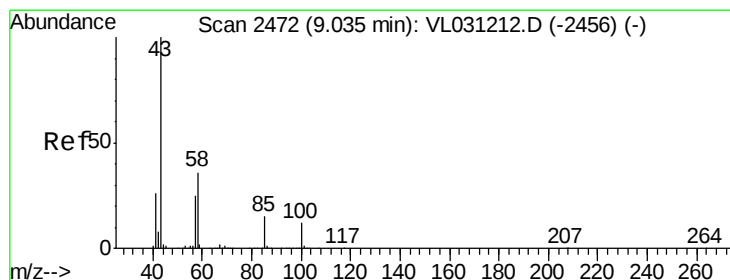
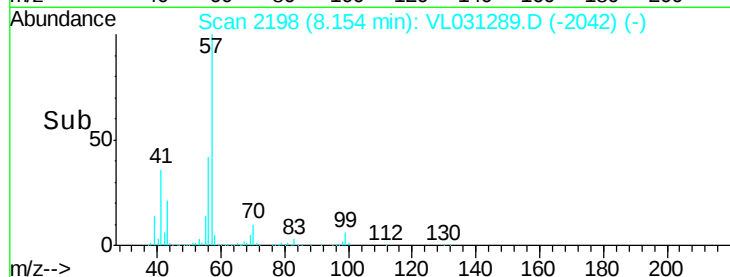
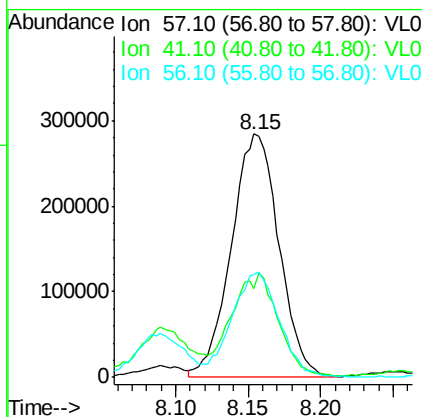
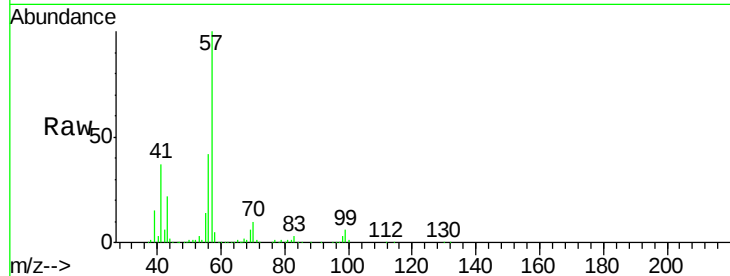
#44
 2,2,4-Trimethylpentane
 Concen: 1.16 ppbv
 RT: 8.15 min Scan# 2198
 Delta R.T. 0.00 min
 Lab File: VL031289.D
 Acq: 21 Dec 2017 3:55

Instrument :
 MSVOA_L
 ClientSampleId :
 EP1-SV-8

Tot Ion	Ratio	Lower	Upper
57	100		
41	41.7	25.5	38.3#
56	42.7	25.0	37.6#

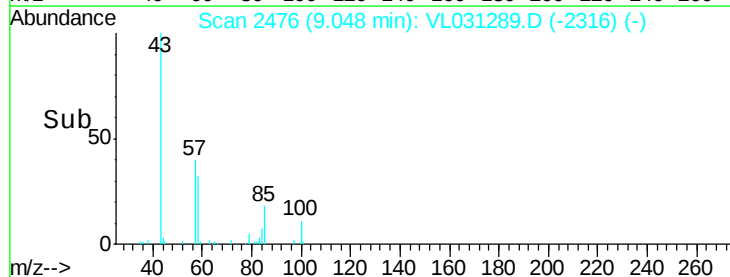
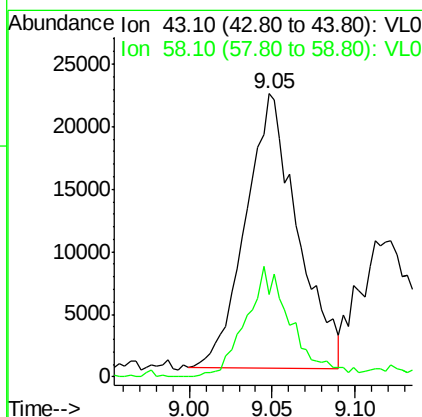
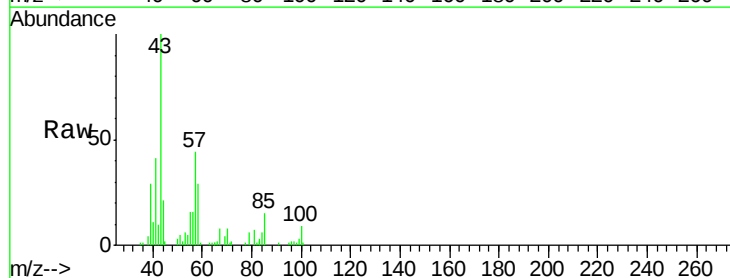
Manual Integrations
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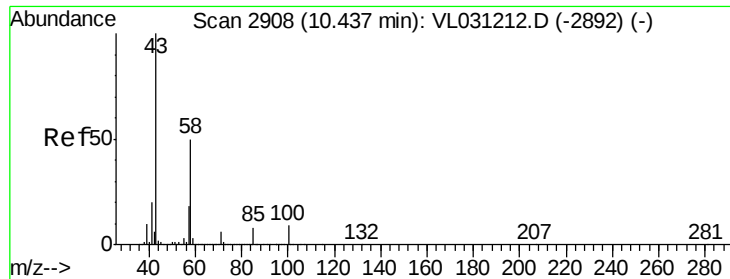
MMDadoda
 12/22/2017 4:55:08 PM



#50
 4-Methyl-2-Pentanone
 Concen: 0.16 ppbv
 RT: 9.05 min Scan# 2476
 Delta R.T. 0.01 min
 Lab File: VL031289.D
 Acq: 21 Dec 2017 3:55

Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.2	28.8	43.2





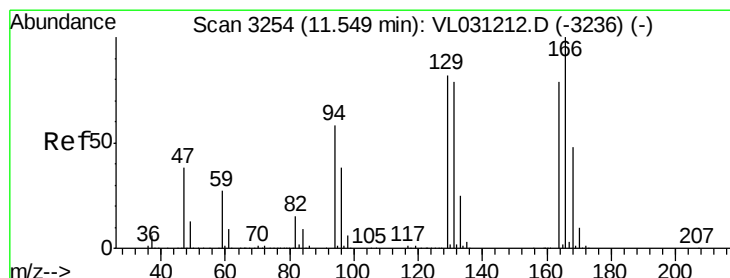
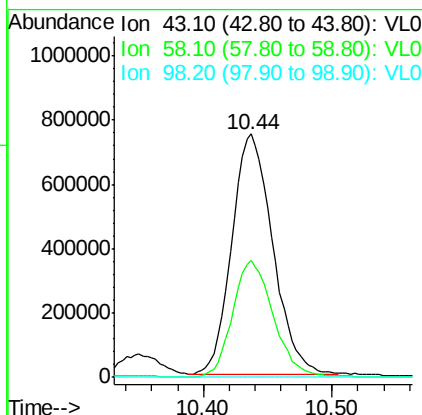
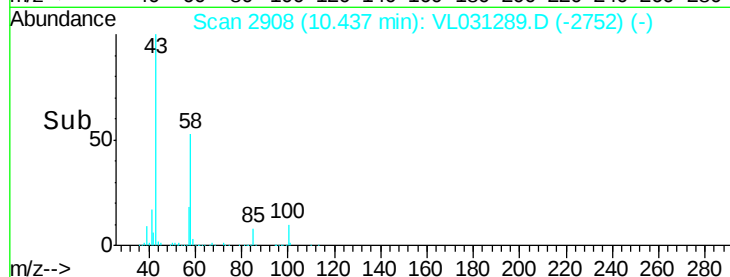
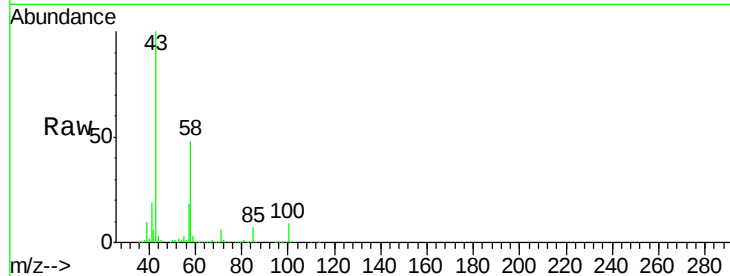
#51
2-Hexanone
Concen: 5.76 ppbv
RT: 10.44 min Scan# 2908
Delta R.T. 0.00 min
Lab File: VL031289.D
Acq: 21 Dec 2017 3:55

Instrument :
MSVOA_L
ClientSampled :
EP1-SV-8

Tot Ion: 43 Resp: 1653903
Ion Ratio Lower Upper
43 100
58 48.3 39.8 59.6
98 0.2 0.0 0.0#

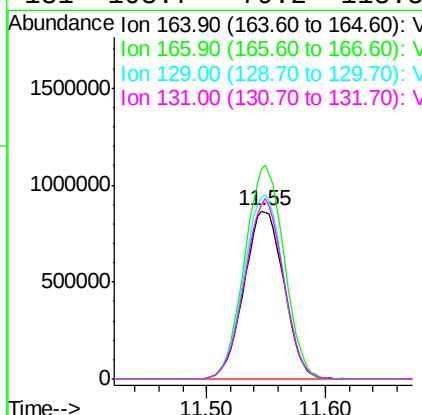
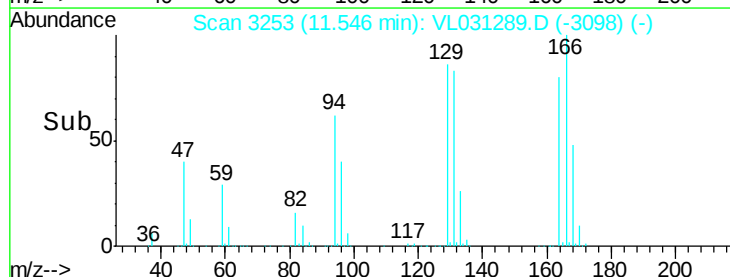
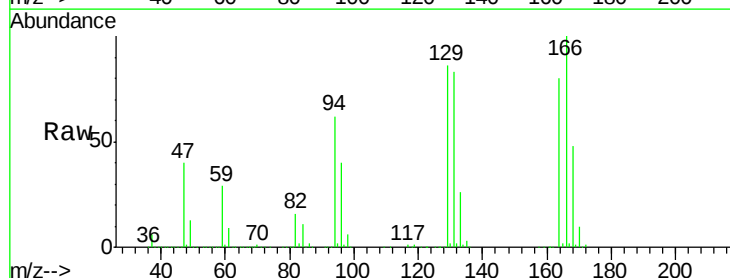
Manual Integrations
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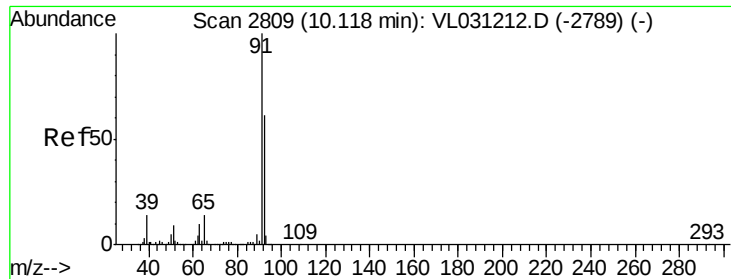
MMDadoda
12/22/2017 4:55:08 PM



#52
Tetrachloroethene
Concen: 14.72 ppbv
RT: 11.55 min Scan# 3253
Delta R.T. -0.00 min
Lab File: VL031289.D
Acq: 21 Dec 2017 3:55

Tgt Ion:164 Resp: 2003535
Ion Ratio Lower Upper
164 100
166 125.2 100.6 151.0
129 108.2 82.9 124.3
131 103.7 79.2 118.8





#53

Toluene

Concen: 1.58 ppbv

RT: 10.12 min Scan# 2809

Delta R.T. 0.00 min

Lab File: VL031289.D

Acq: 21 Dec 2017 3:55

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-8

Tot Ion: 91 Resp: 633977

Ion Ratio Lower Upper

91 100

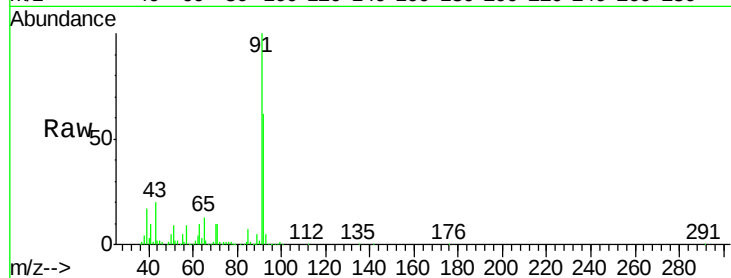
92 60.6 49.1 73.7

Manual Integrations

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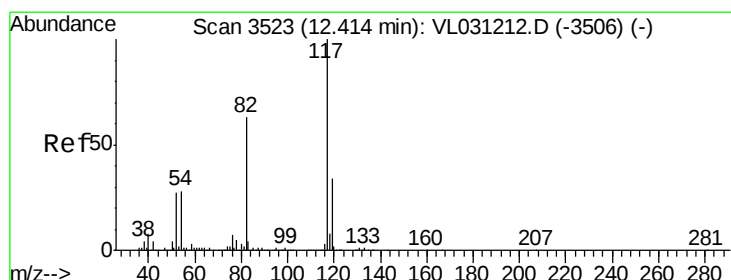
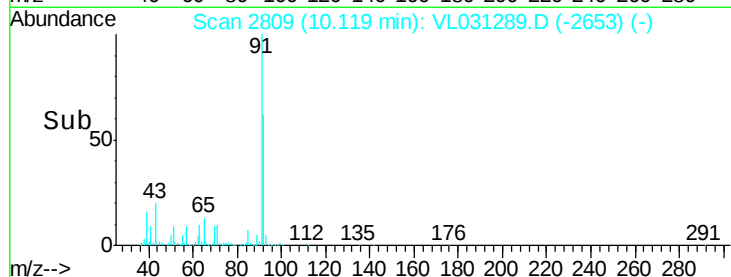
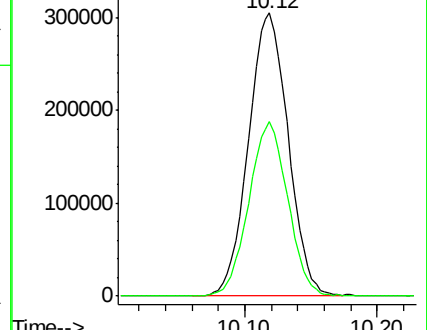
MMDadoda

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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# 3523

Delta R.T. 0.00 min

Lab File: VL031289.D

Acq: 21 Dec 2017 3:55

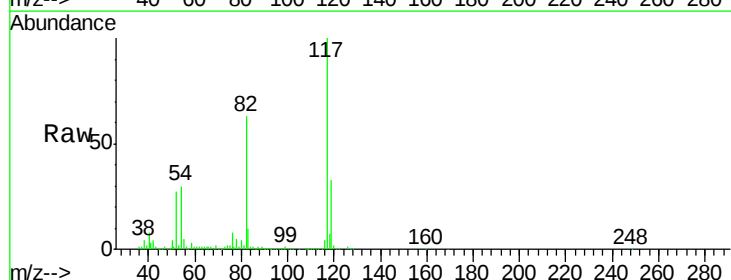
Tgt Ion: 117 Resp: 3194775

Ion Ratio Lower Upper

117 100

82 63.7 48.1 72.1

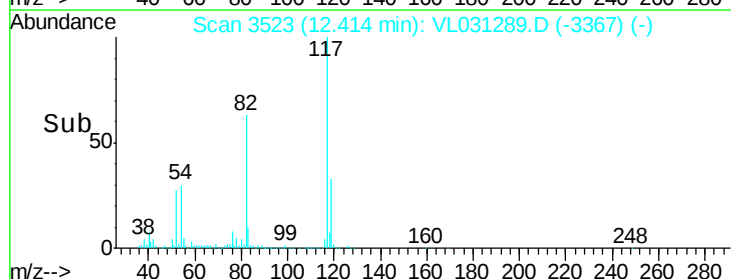
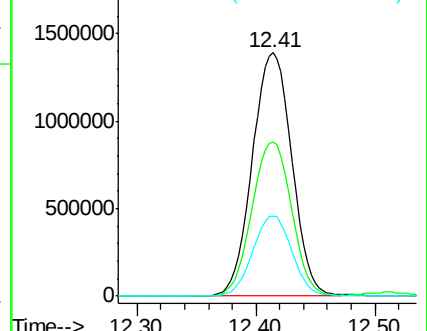
119 32.7 23.1 34.7

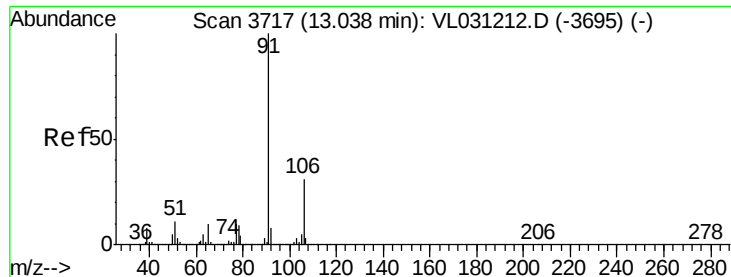


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





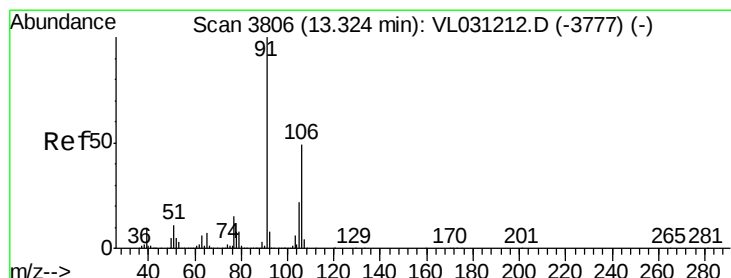
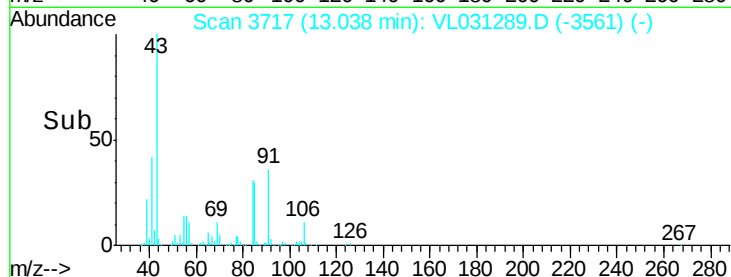
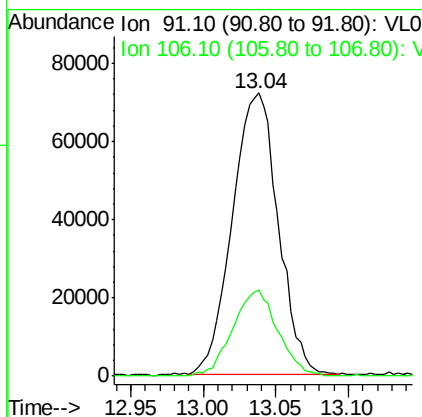
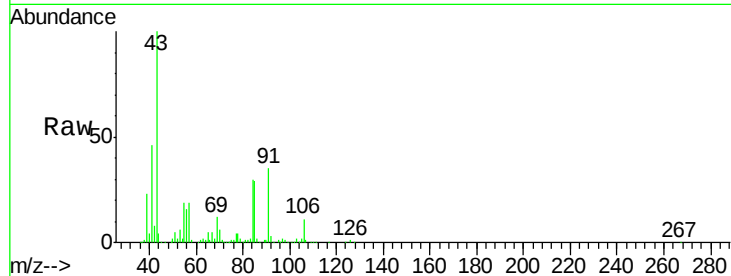
#58
Ethyl Benzene
Concen: 0.30 ppbv
RT: 13.04 min Scan# 3717
Delta R.T. 0.00 min
Lab File: VL031289.D
Acq: 21 Dec 2017 3:55

Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-8

Tot Ion: 91 Resp: 157948
Ion Ratio Lower Upper
91 100
106 30.8 25.1 37.7

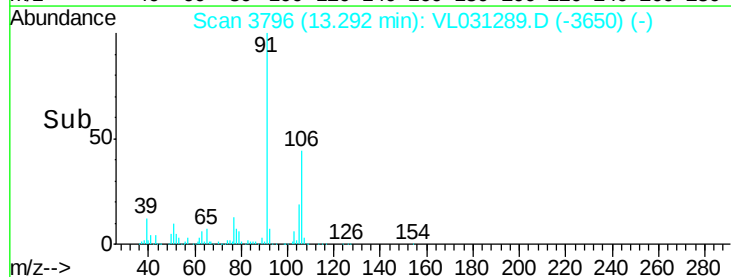
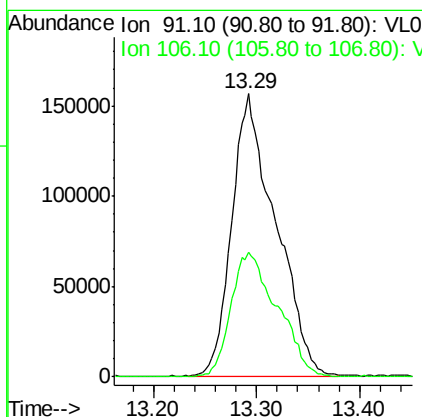
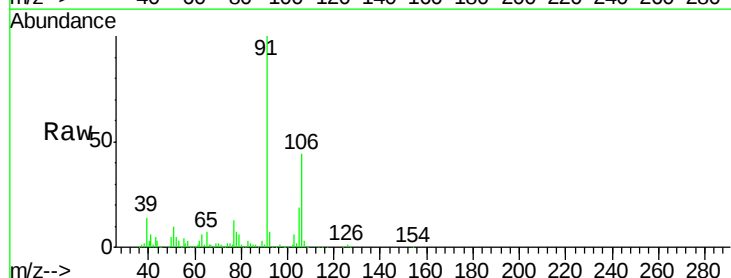
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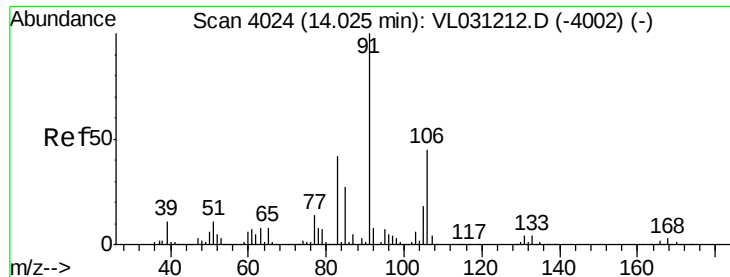
MMDadoda
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#59
m/p-Xylene
Concen: 1.09 ppbv
RT: 13.29 min Scan# 3796
Delta R.T. -0.03 min
Lab File: VL031289.D
Acq: 21 Dec 2017 3:55

Tgt Ion: 91 Resp: 459461
Ion Ratio Lower Upper
91 100
106 46.8 38.5 57.7





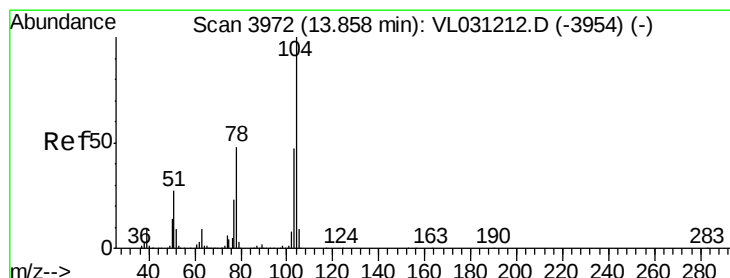
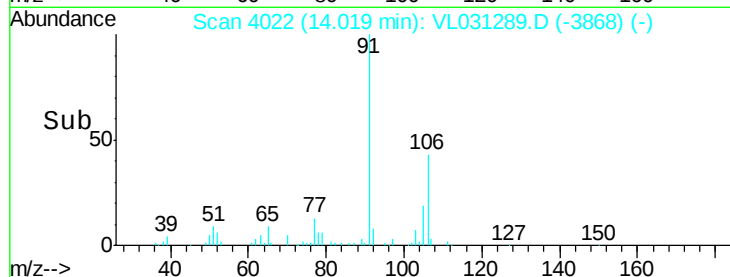
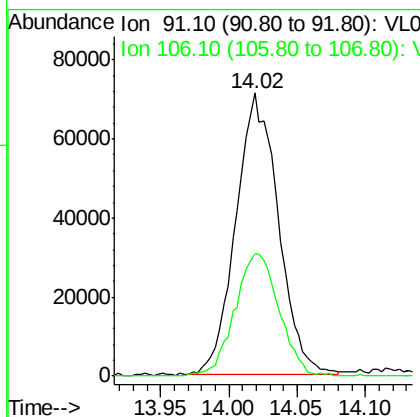
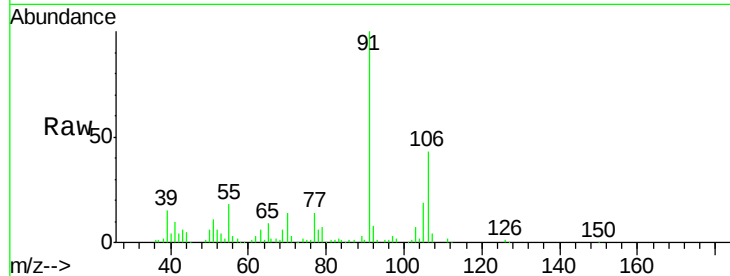
#60
o-Xylene
Concen: 0.36 ppbv
RT: 14.02 min Scan# 4022
Delta R.T. -0.01 min
Lab File: VL031289.D
Acq: 21 Dec 2017 3:55

Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-8

Tot Ion: 91 Resp: 153736
Ion Ratio Lower Upper
91 100
106 45.4 22.7 68.1

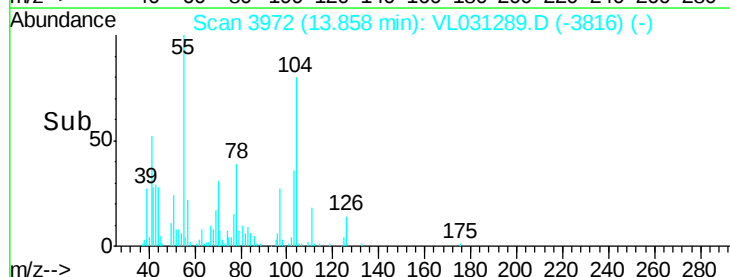
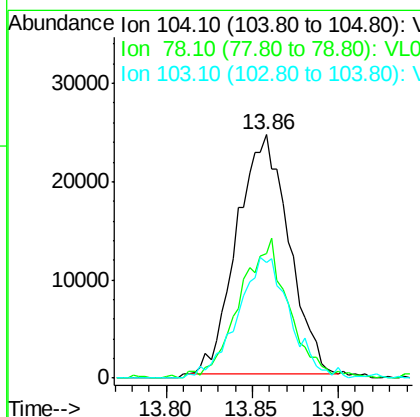
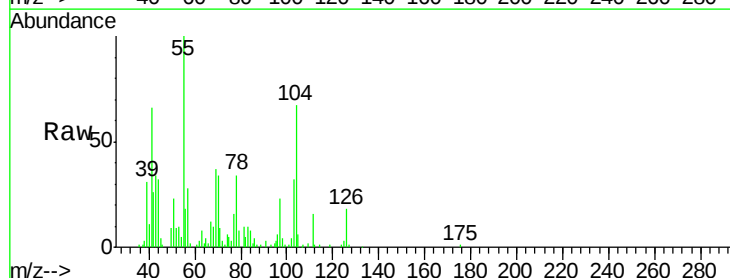
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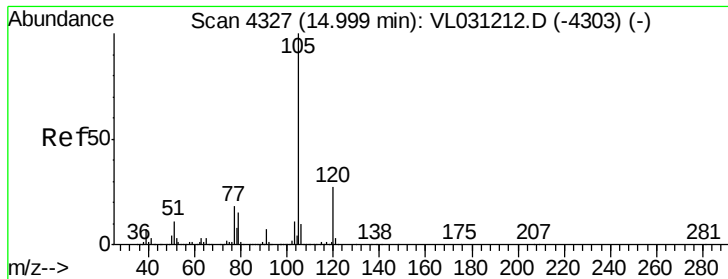
MMDadoda
12/22/2017 4:55:08 PM



#61
Styrene
Concen: 0.42 ppbv
RT: 13.86 min Scan# 3972
Delta R.T. 0.00 min
Lab File: VL031289.D
Acq: 21 Dec 2017 3:55

Tgt Ion:104 Resp: 51219
Ion Ratio Lower Upper
104 100
78 55.8 39.1 58.7
103 50.8 37.3 55.9





#62

Isopropylbenzene

Concen: 0.09 ppbv

RT: 15.00 min Scan# 4326

Delta R.T. -0.00 min

Lab File: VL031289.D

Acq: 21 Dec 2017 3:55

Instrument :

MSVOA_L

ClientSampled :

EP1-SV-8

Tot Ion:105 Resp: 50183

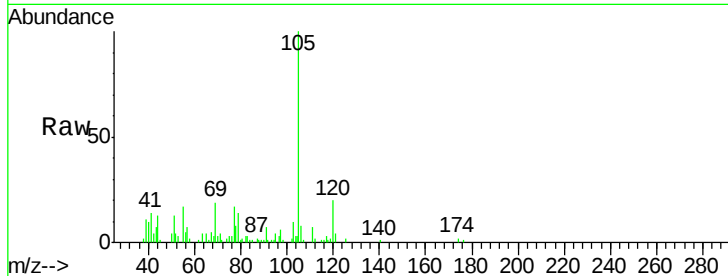
Ion Ratio Lower Upper

105 100

120 24.0 21.0 31.6

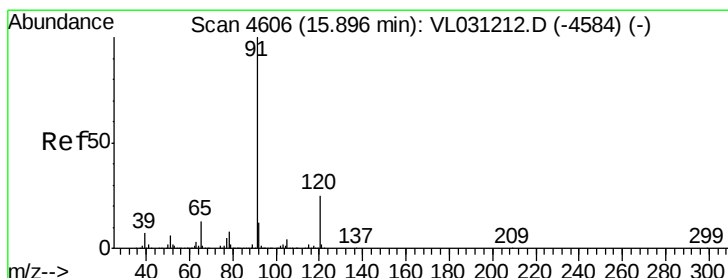
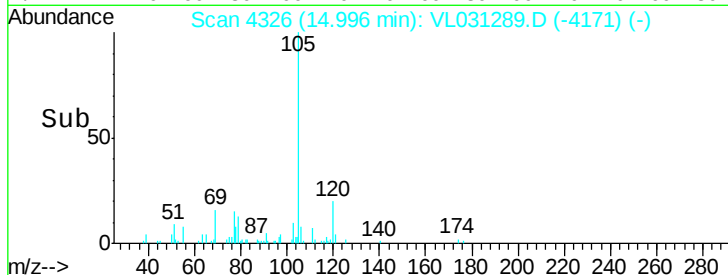
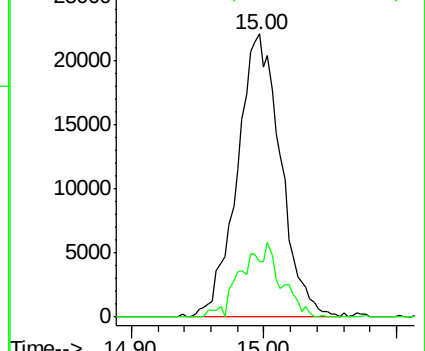
Manual Integrations
APPROVED

MMDadoda
12/22/2017 4:55:08 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 0.12 ppbv m

RT: 15.89 min Scan# 4605

Delta R.T. -0.00 min

Lab File: VL031289.D

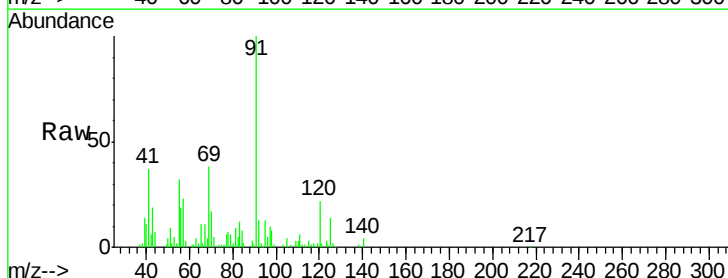
Acq: 21 Dec 2017 3:55

Tgt Ion:120 Resp: 17765

Ion Ratio Lower Upper

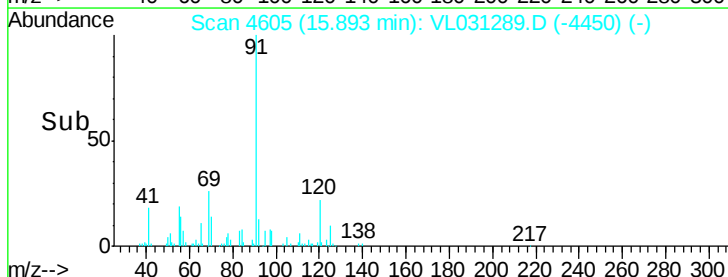
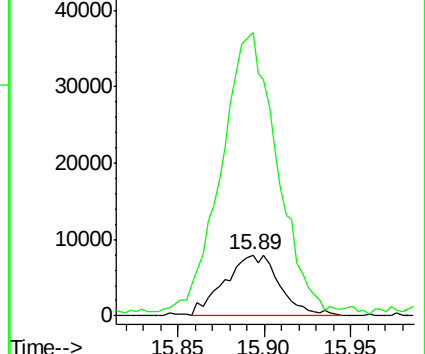
120 100

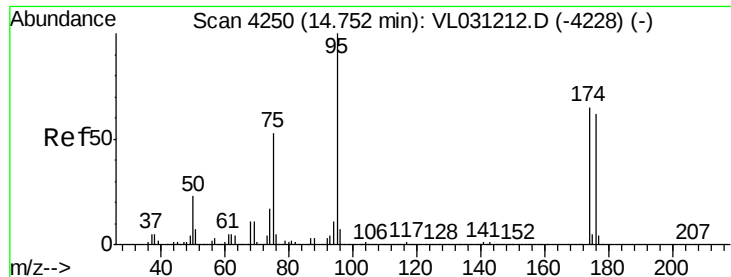
91 574.2 352.1 528.1#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





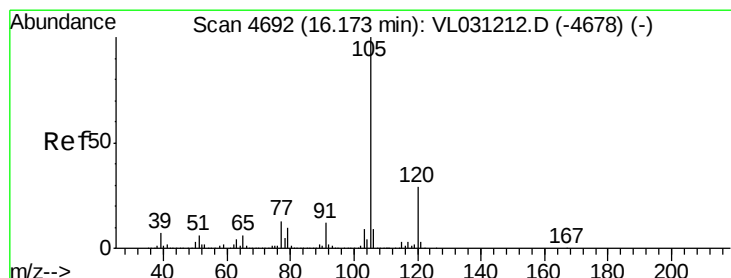
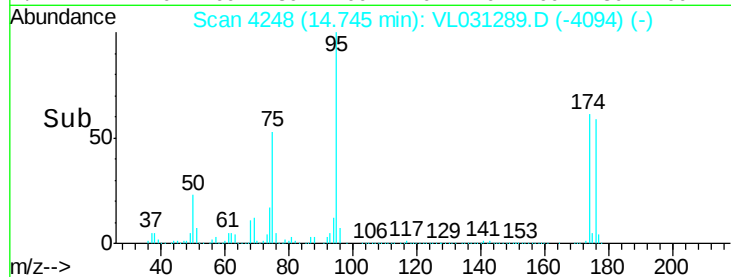
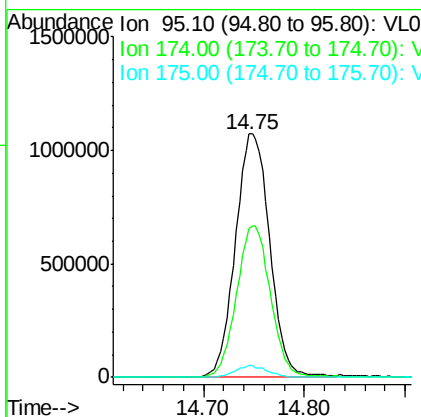
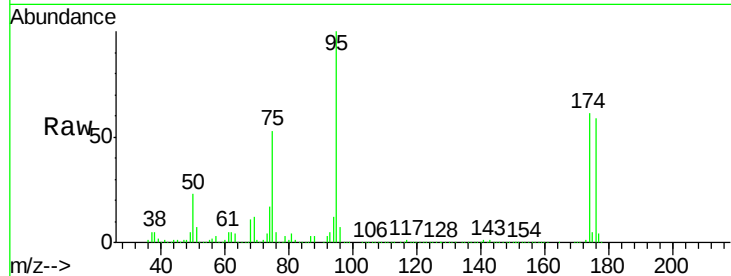
#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.16 ppbv
 RT: 14.75 min Scan# 4248
 Delta R.T. -0.01 min
 Lab File: VL031289.D
 Acq: 21 Dec 2017 3:55

Instrument :
 MSVOA_L
 ClientSampled :
 EP1-SV-8

Tot Ion: 95 Resp: 2535624
 Ion Ratio Lower Upper
 95 100
 174 61.5 52.5 78.7
 175 4.5 4.1 6.1

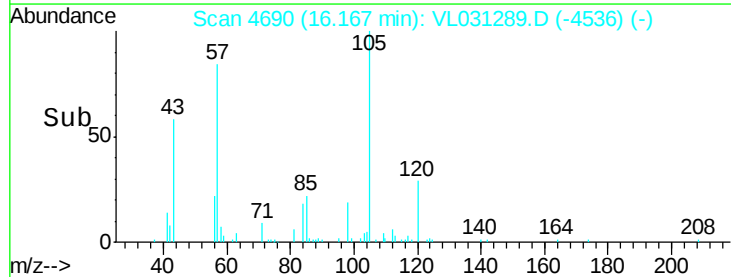
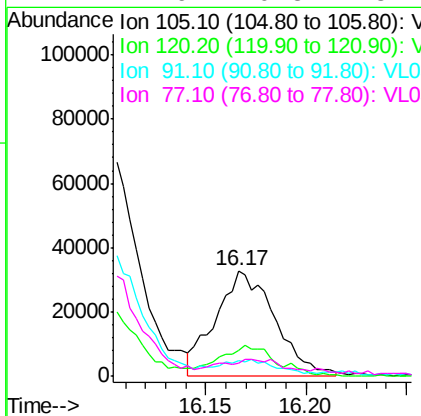
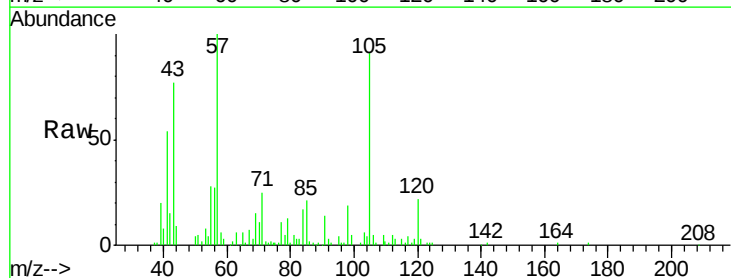
Manual Integrations
 APPROVED

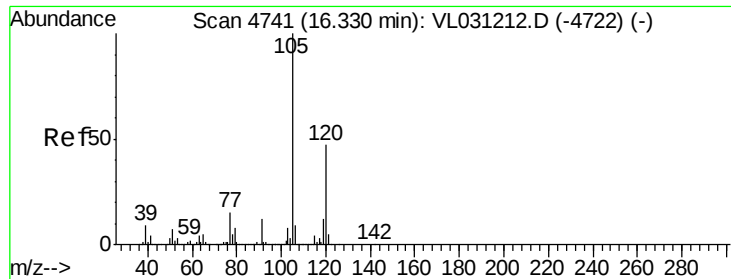
MMDadoda
 12/22/2017 4:55:08 PM



#72
 4-Ethyltoluene
 Concen: 0.14 ppbv m
 RT: 16.17 min Scan# 4690
 Delta R.T. -0.01 min
 Lab File: VL031289.D
 Acq: 21 Dec 2017 3:55

Tgt Ion: 105 Resp: 67240
 Ion Ratio Lower Upper
 105 100
 120 29.2 24.2 36.2
 91 10.9 9.8 14.8
 77 17.6 10.5 15.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.19 ppbv

RT: 16.33 min Scan# 4741

Delta R.T. 0.00 min

Lab File: VL031289.D

Acq: 21 Dec 2017 3:55

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-8

Tot Ion:105 Resp: 80698

Ion Ratio Lower Upper

105 100

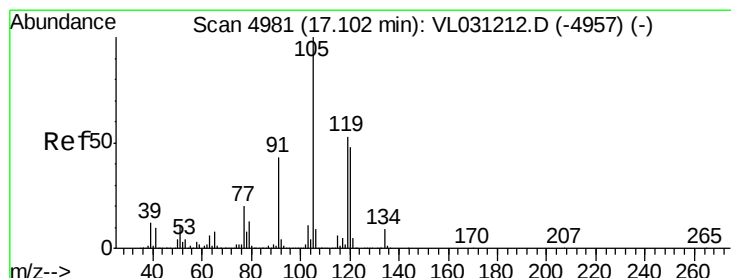
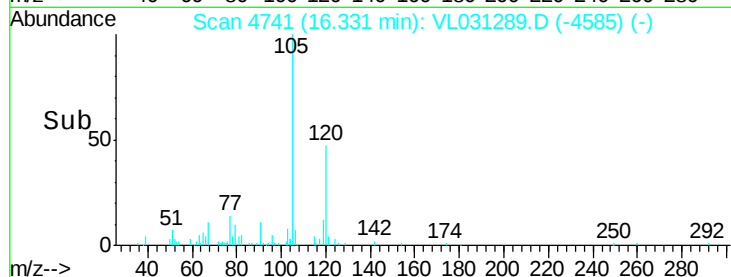
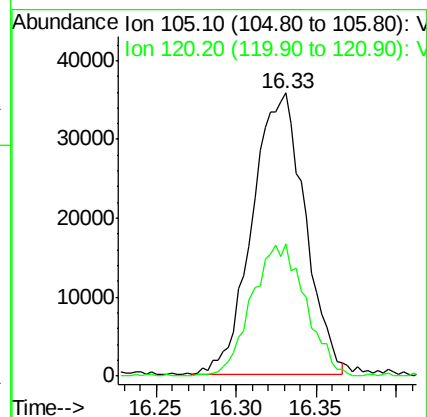
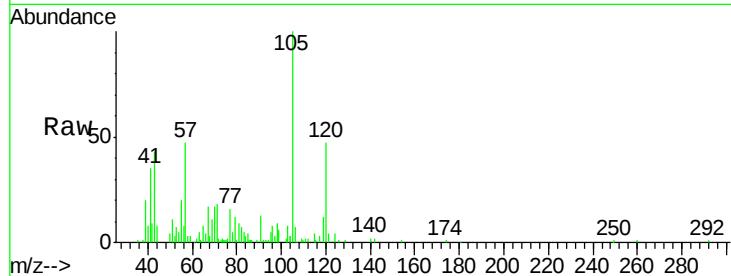
120 47.3 37.8 56.6

Manual Integrations

APPROVED

MMDadoda

12/22/2017 4:55:08 PM



#74

1,2,4-Trimethylbenzene

Concen: 0.31 ppbv

RT: 17.09 min Scan# 4978

Delta R.T. -0.01 min

Lab File: VL031289.D

Acq: 21 Dec 2017 3:55

Tgt Ion:105 Resp: 134992

Ion Ratio Lower Upper

105 100

120 45.0 38.6 58.0

91 7.0 34.2 51.4#

77 8.2 16.1 24.1#

