

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060121\
 Data File : VL037070.D
 Acq On : 1 Jun 2021 15:06
 Operator : SY/AP
 Sample : M2559-02 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 HSG2

Manual Integrations
 APPROVED

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 6/7/2021 2:58:27 PM

Quant Time: Jun 04 11:28:47 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1617572	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4856280	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	4455180	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	3419571	10.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
4) Chloromethane	3.13	50	10072	0.100	ppbv	94
9) Propene	3.01	41	79483m	0.749	ppbv	
10) Heptane	8.11	43	5438802	20.566	ppbv	99
13) Ethanol	3.60	45	658553	46.513	ppbv	92
15) Acetone	3.83	43	5400126	32.593	ppbv	94
17) tert-Butyl alcohol	4.30	59	138188	0.911	ppbv #	90
19) Isopropyl Alcohol	3.97	45	99950	1.122	ppbv #	30
20) Methylene Chloride	4.33	84	2878061	32.406	ppbv	97
26) Hexane	5.67	57	2889226	14.205	ppbv #	47
30) Cyclohexane	7.12	84	207169m	1.199	ppbv	
34) 2-Butanone	5.23	43	80594	0.456	ppbv #	79
36) Benzene	6.87	78	216530	0.518	ppbv	97
53) Toluene	9.79	91	9952068	19.995	ppbv	97
58) Ethyl Benzene	12.69	91	598113	0.951	ppbv	95
59) m/p-Xylene	12.95	91	1759485	3.385	ppbv	98
60) o-Xylene	13.67	91	626294	1.263	ppbv	97
61) Styrene	13.50	104	33644m	0.120	ppbv	
62) Isopropylbenzene	14.65	105	490370	0.688	ppbv	99
64) n-propylbenzene	15.55	120	37067m	0.202	ppbv	
69) p-Isopropyltoluene	17.64	119	548416	0.727	ppbv	95
70) n-Butylbenzene	18.54	91	68525m	0.096	ppbv	
72) 4-Ethyltoluene	15.82	105	239971m	0.408	ppbv	
73) 1,3,5-Trimethylbenzene	15.98	105	145763	0.264	ppbv #	82
74) 1,2,4-Trimethylbenzene	16.74	105	596579	1.044	ppbv #	72

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

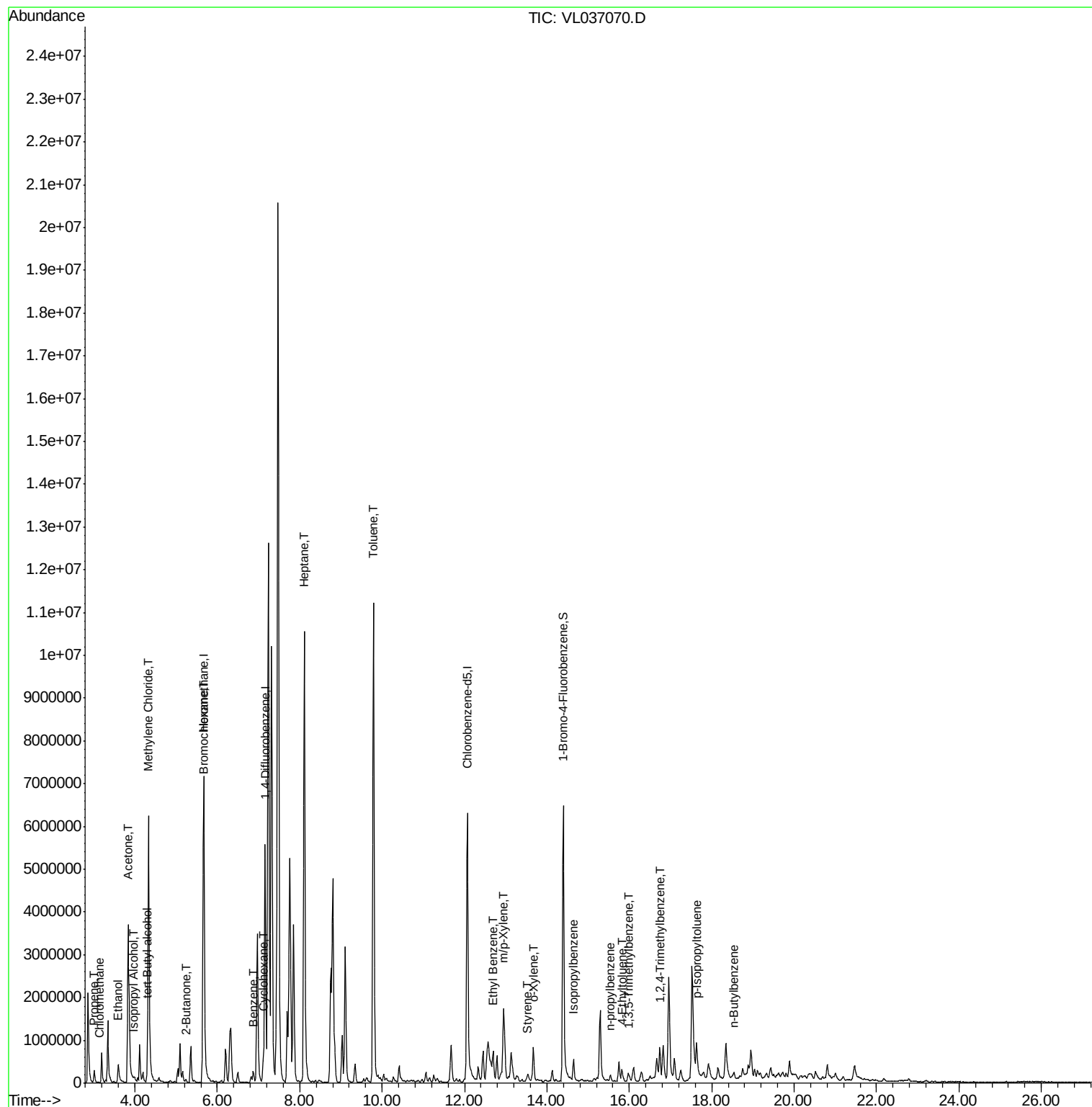
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL060121\
Data File : VL037070.D
Acq On : 1 Jun 2021 15:06
Operator : SY/AP
Sample : M2559-02 4X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

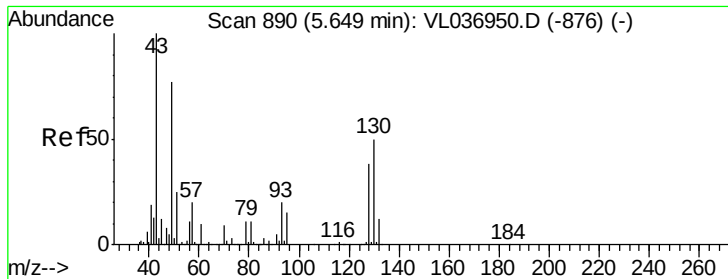
Instrument :
MSVOA_L
ClientSampleId :
HSG2

Manual Integrations
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Quant Time: Jun 04 11:28:47 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May
QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





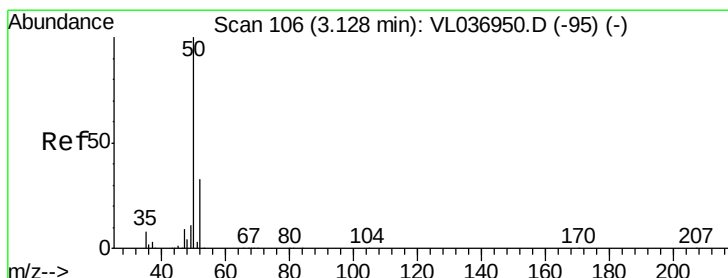
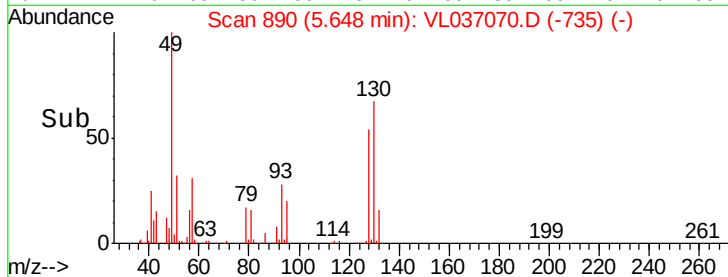
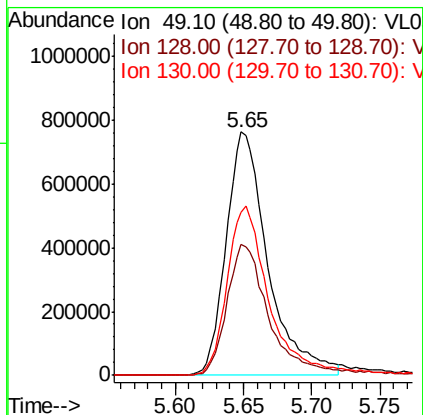
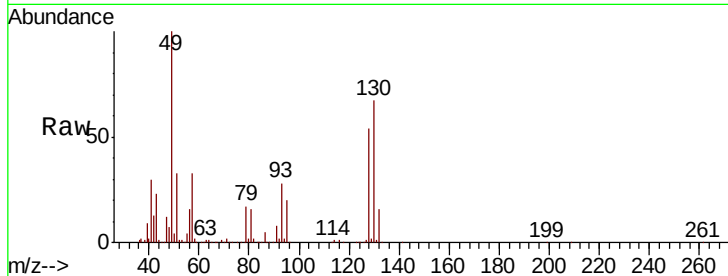
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.65 min Scan# 890
Delta R.T. -0.00 min
Lab File: VL037070.D
Acq: 1 Jun 2021 15:06

Instrument :
MSVOA_L
ClientSampled :
HSG2

Tot Ion: 49 Resp: 1617572
Ion Ratio Lower Upper
49 100
128 56.4 26.9 80.7
130 71.7 33.8 101.4

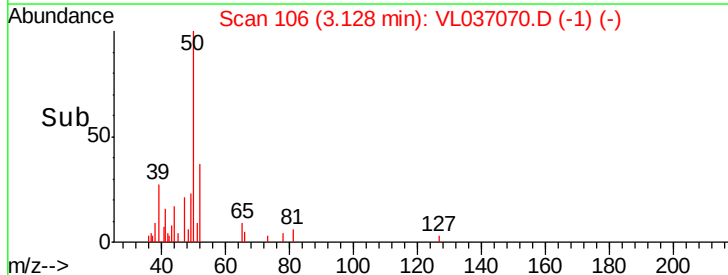
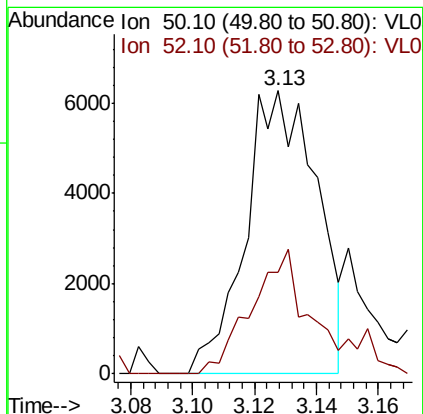
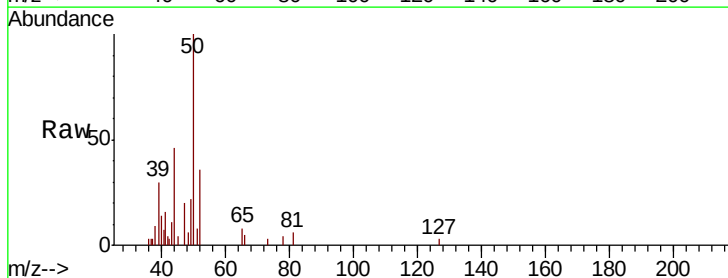
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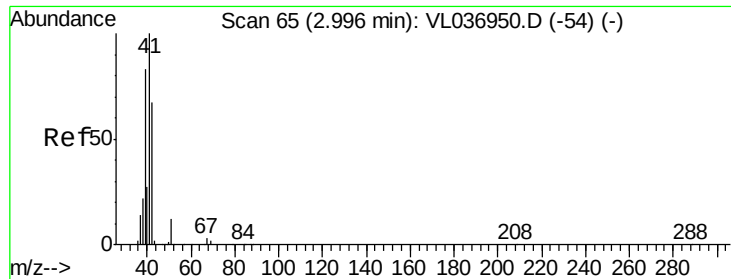
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#4
Chloromethane
Concen: 0.100 ppbv
RT: 3.13 min Scan# 106
Delta R.T. -0.00 min
Lab File: VL037070.D
Acq: 1 Jun 2021 15:06

Tgt Ion: 50 Resp: 10072
Ion Ratio Lower Upper
50 100
52 35.9 26.1 39.1





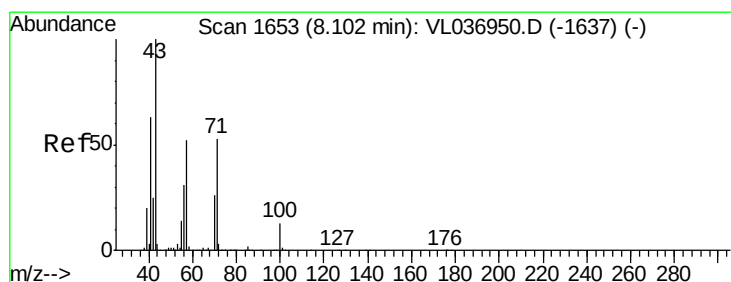
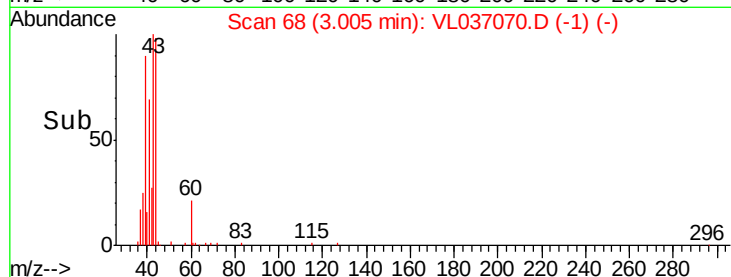
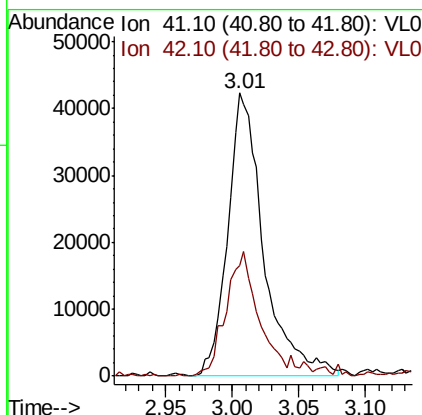
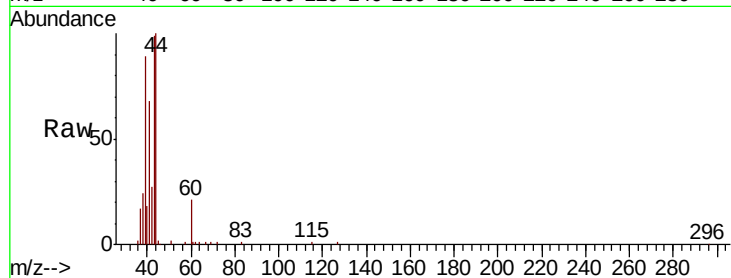
#9
 Propene
 Concen: 0.749 ppbv m
 RT: 3.01 min Scan# 68
 Delta R.T. 0.01 min
 Lab File: VL037070.D
 Acq: 1 Jun 2021 15:06

Instrument :
 MSVOA_L
 ClientSampleId :
 HSG2

Tot Ion: 41 Resp: 79483
 Ion Ratio Lower Upper
 41 100
 42 208.8 53.9 80.9#

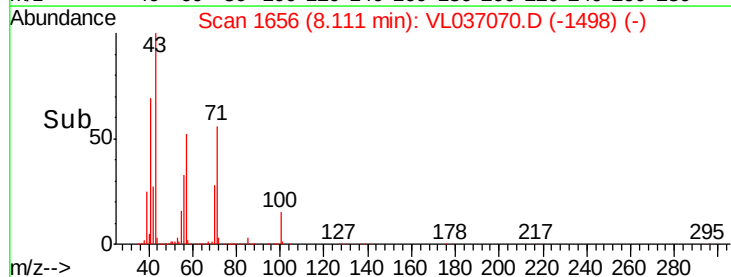
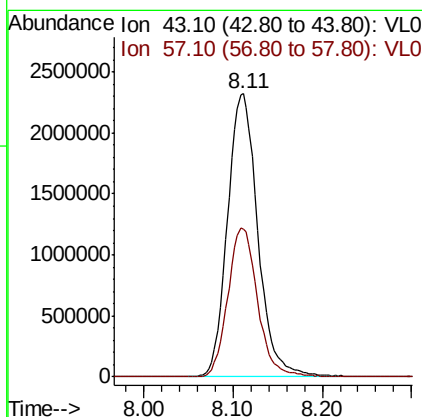
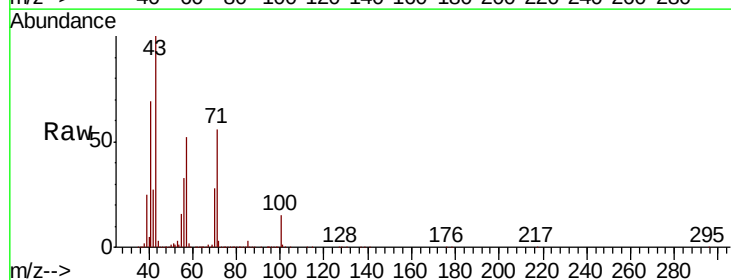
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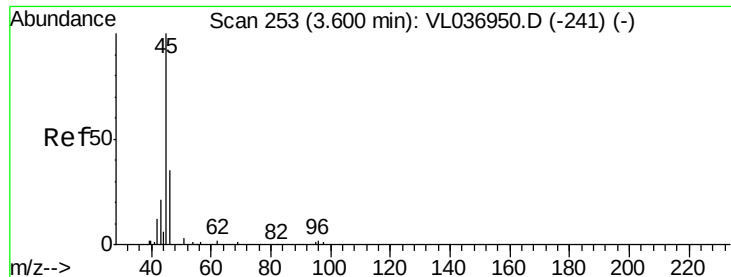
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#10
 Heptane
 Concen: 20.566 ppbv
 RT: 8.11 min Scan# 1656
 Delta R.T. 0.01 min
 Lab File: VL037070.D
 Acq: 1 Jun 2021 15:06

Tgt Ion: 43 Resp: 5438802
 Ion Ratio Lower Upper
 43 100
 57 51.9 41.0 61.6





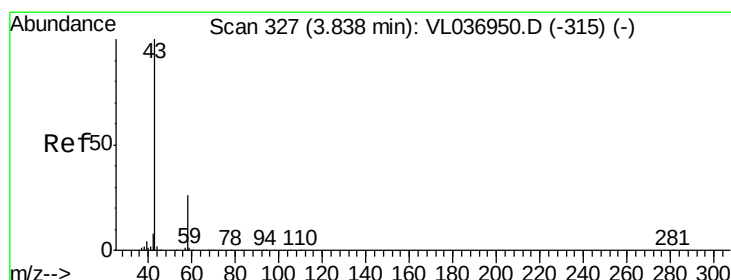
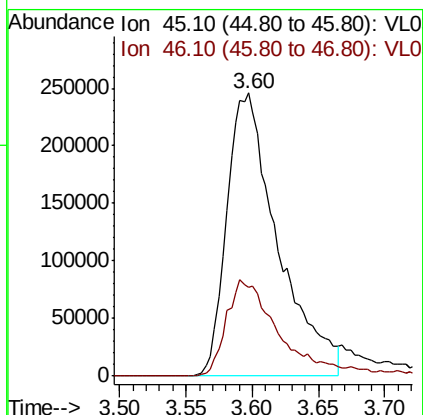
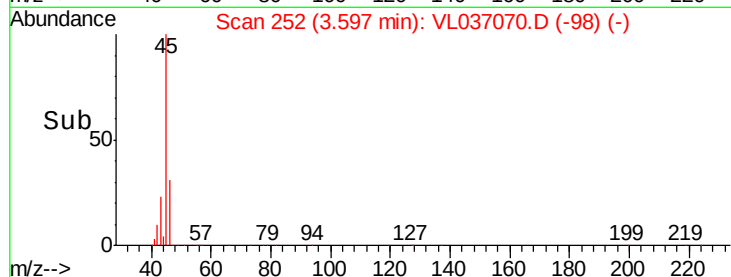
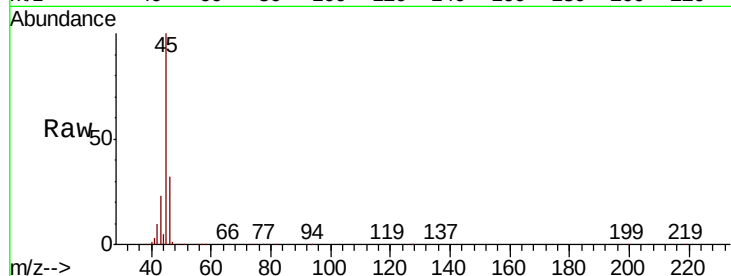
#13
Ethanol
Concen: 46.513 ppbv
RT: 3.60 min Scan# 252
Delta R.T. -0.00 min
Lab File: VL037070.D
Acq: 1 Jun 2021 15:06

Instrument :
MSVOA_L
ClientSampleId :
HSG2

Tot Ion	45	46	Ratio	Lower	Upper
45	100				
46	35.5		16.3	65.3	

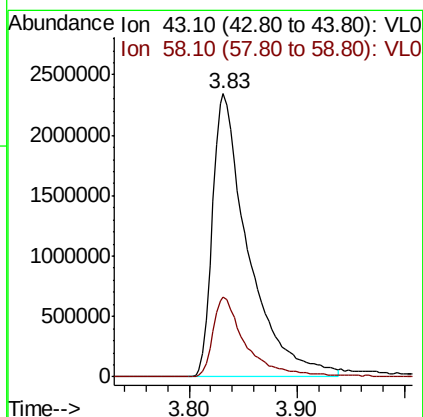
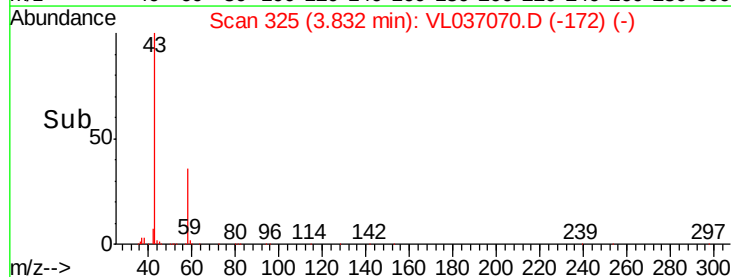
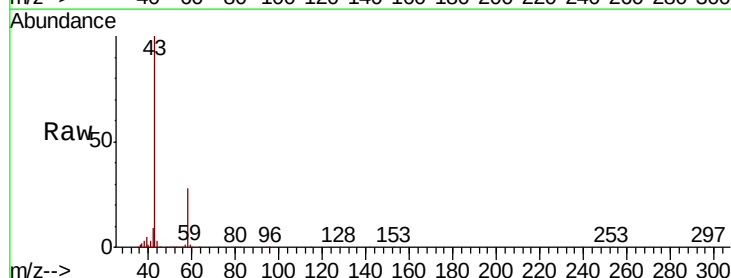
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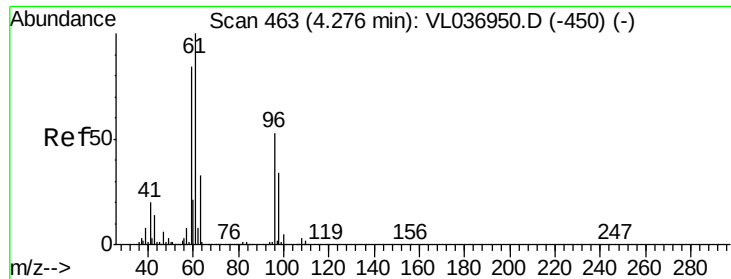
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#15
Acetone
Concen: 32.593 ppbv
RT: 3.83 min Scan# 325
Delta R.T. -0.01 min
Lab File: VL037070.D
Acq: 1 Jun 2021 15:06

Tgt Ion	43	58	Ratio	Lower	Upper
43	100				
58	26.5		24.0	36.0	





#17

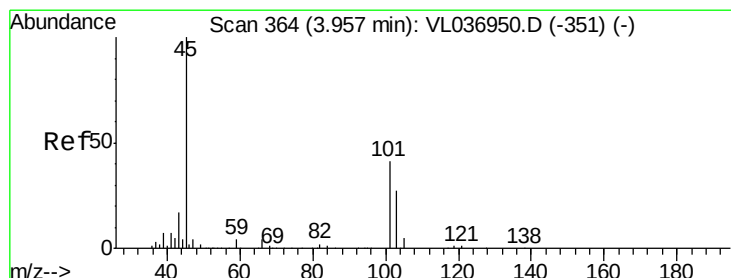
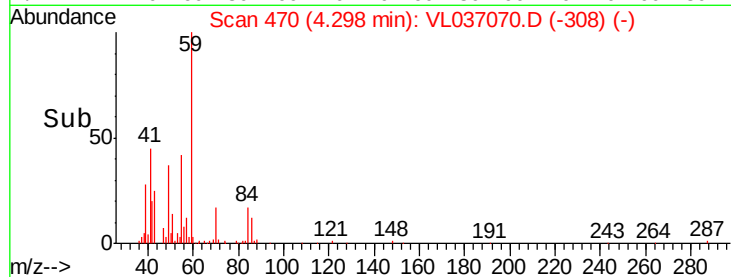
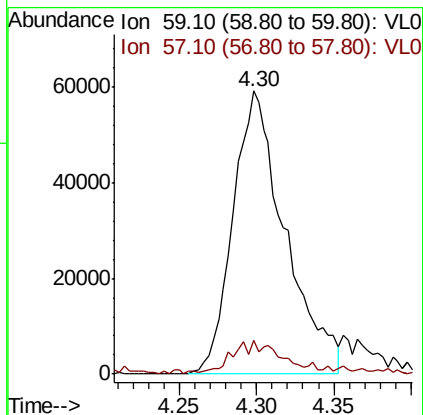
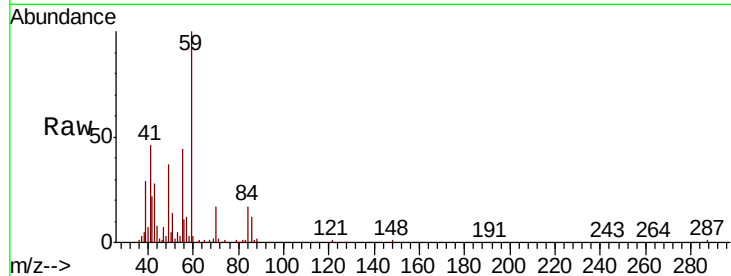
tert-Butyl alcohol
Concen: 0.911 ppbv
RT: 4.30 min Scan# 470
Delta R.T. 0.02 min
Lab File: VL037070.D
Acq: 1 Jun 2021 15:06

Instrument :
MSVOA_L
ClientSampled :
HSG2

Tot Ion: 59 Resp: 138188
Ion Ratio Lower Upper
59 100
57 14.1 8.3 12.5#

Manual Integrations
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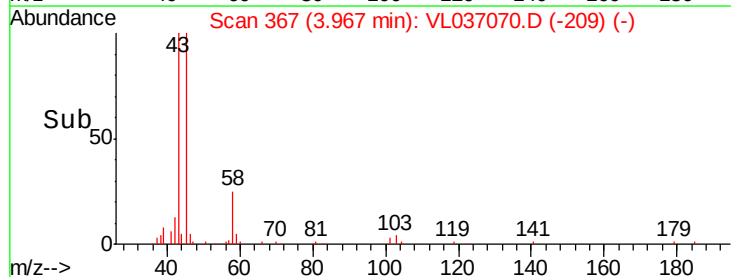
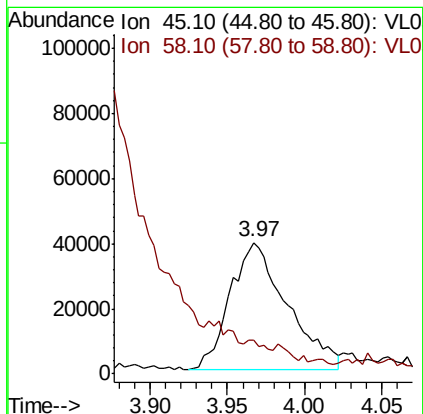
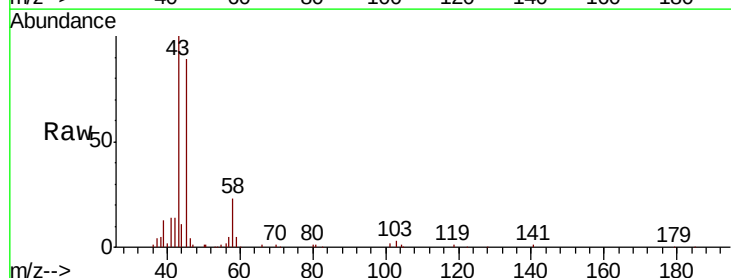
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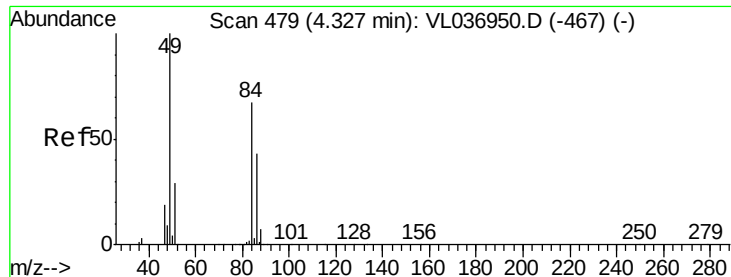


#19

Isopropyl Alcohol
Concen: 1.122 ppbv
RT: 3.97 min Scan# 367
Delta R.T. 0.01 min
Lab File: VL037070.D
Acq: 1 Jun 2021 15:06

Tgt Ion: 45 Resp: 99950
Ion Ratio Lower Upper
45 100
58 0.0 37.2 55.8#





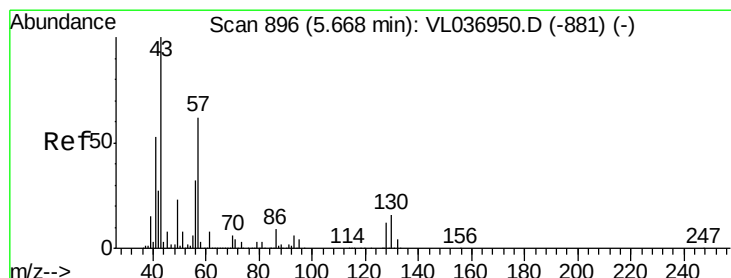
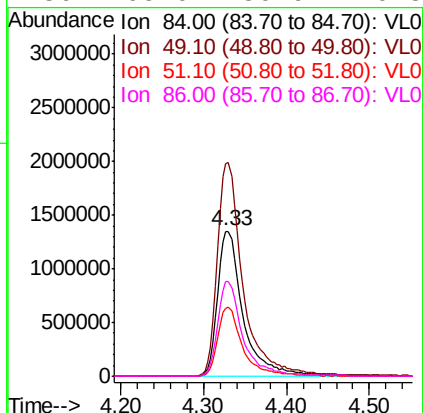
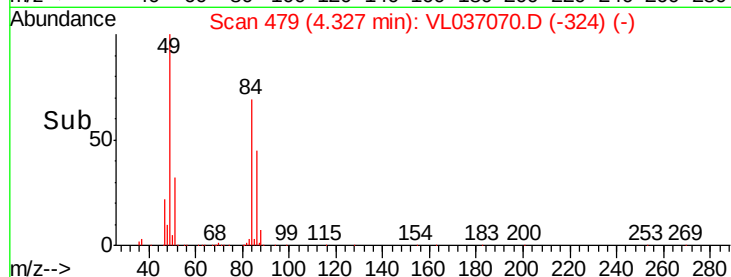
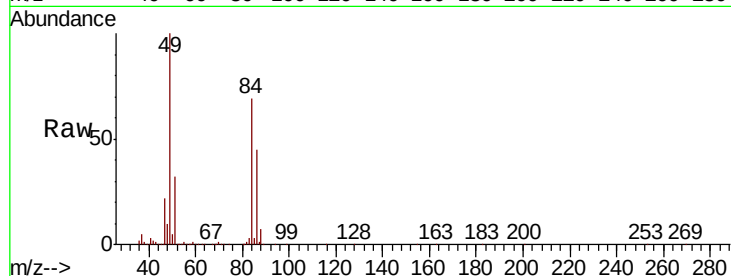
#20
Methvlene Chloride
Concen: 32.406 ppbv
RT: 4.33 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL037070.D
Acq: 1 Jun 2021 15:06

Instrument :
MSVOA_L
ClientSampled :
HSG2

Tot Ion	Ratio	Lower	Upper
84	100		
49	145.9	119.8	179.6
51	46.9	35.1	52.7
86	65.0	50.9	76.3

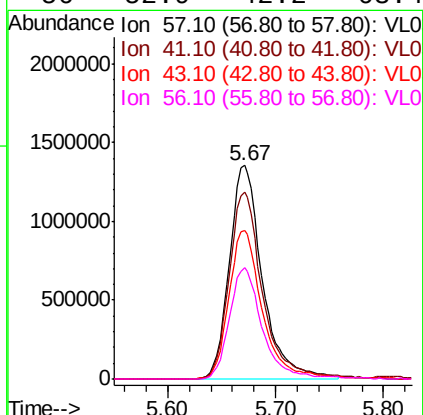
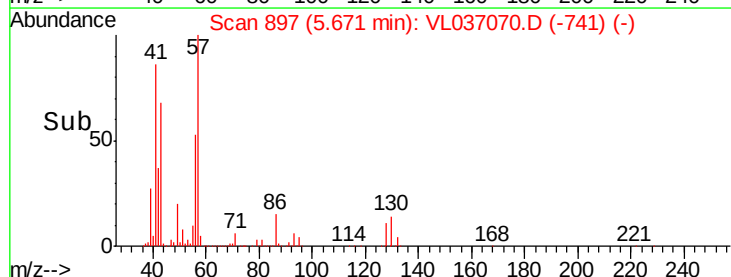
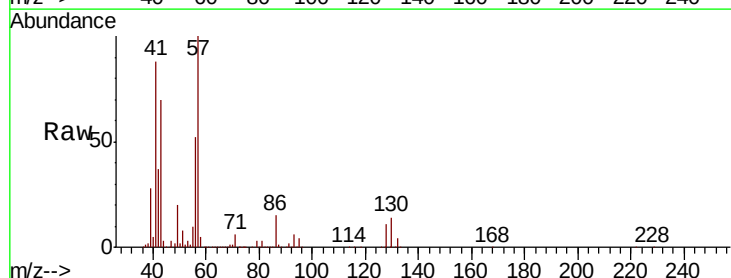
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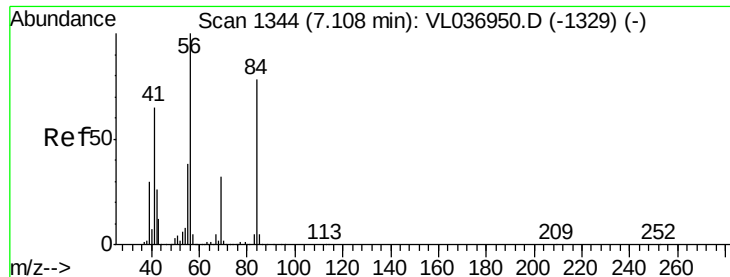
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#26
Hexane
Concen: 14.205 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.00 min
Lab File: VL037070.D
Acq: 1 Jun 2021 15:06

Tgt Ion	Ratio	Lower	Upper
57	100		
41	89.2	70.5	105.7
43	70.8	165.8	248.8#
56	52.9	42.2	63.4





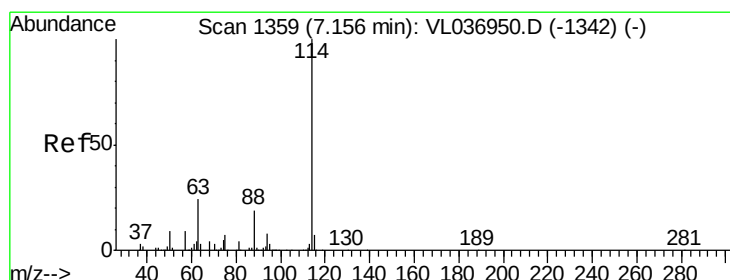
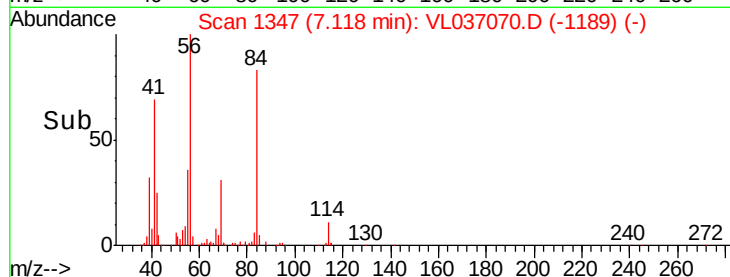
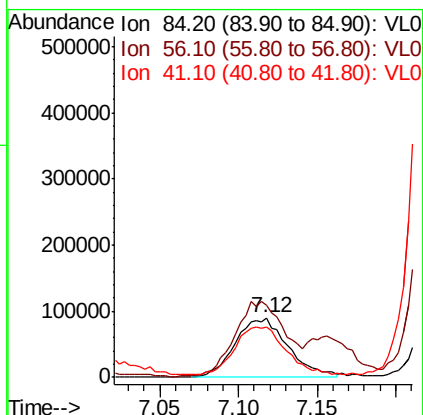
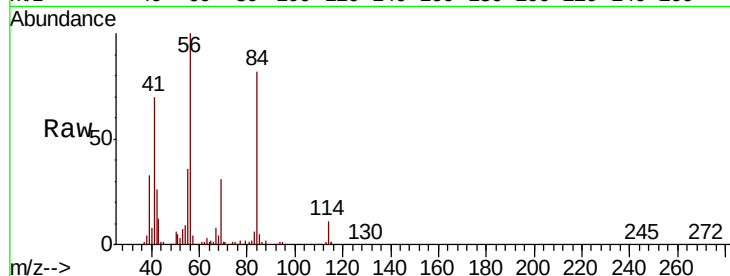
#30
Cvclohexane
Concen: 1.199 ppbv m
RT: 7.12 min Scan# 1347
Delta R.T. 0.01 min
Lab File: VL037070.D
Acq: 1 Jun 2021 15:06

Instrument :
MSVOA_L
ClientSampleId :
HSG2

Tot Ion	Ratio	Lower	Upper
84	100		
56	177.4	107.9	161.9#
41	0.0	65.5	98.3#

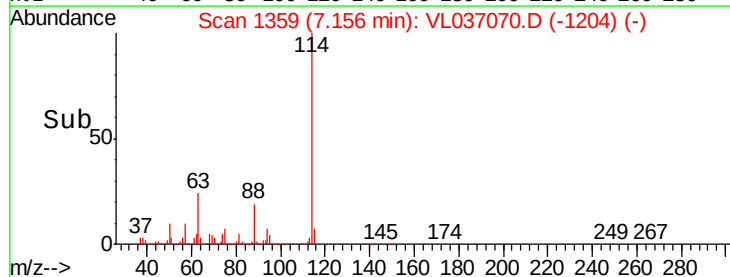
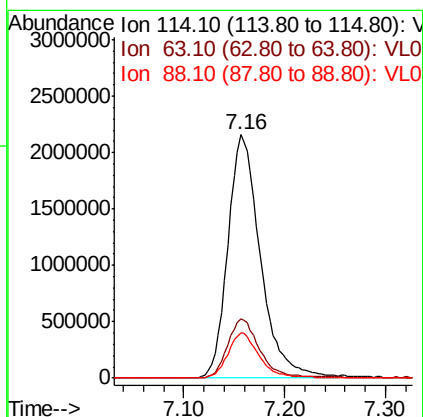
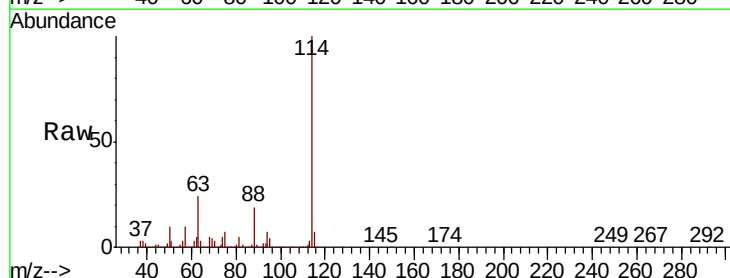
Manual Integrations
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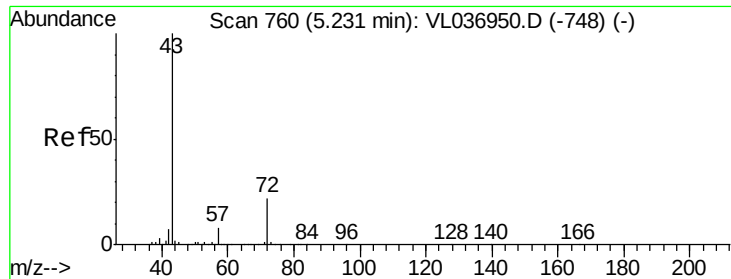
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.00 min
Lab File: VL037070.D
Acq: 1 Jun 2021 15:06

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.5	19.6	29.4
88	18.1	14.6	21.8





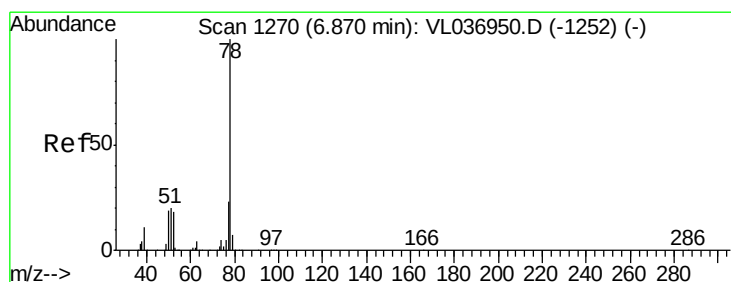
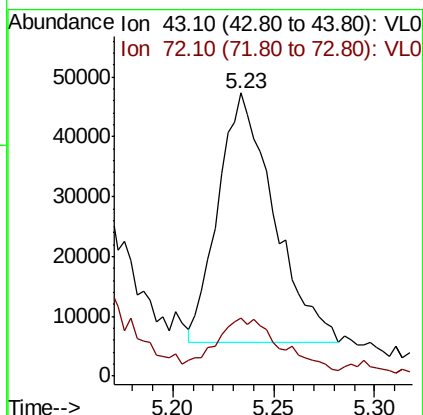
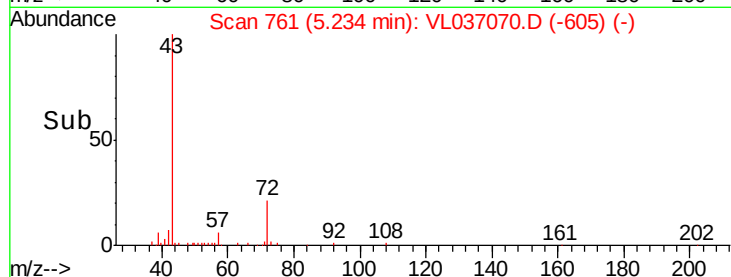
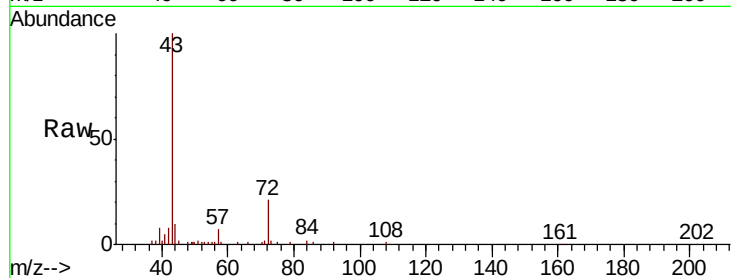
#34
2-Butanone
Concen: 0.456 ppbv
RT: 5.23 min Scan# 761
Delta R.T. 0.00 min
Lab File: VL037070.D
Acq: 1 Jun 2021 15:06

Instrument :
MSVOA_L
ClientSampled :
HSG2

Tot Ion	43	Ratio	Lower	Upper
43	100			
72	33.8	19.0	28.4	

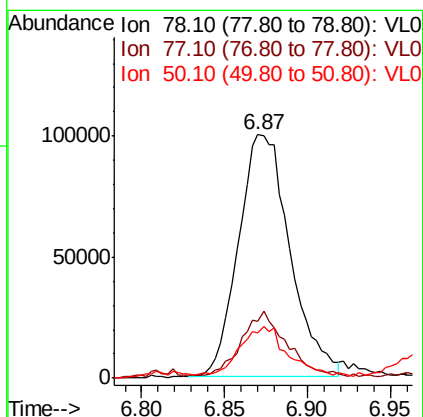
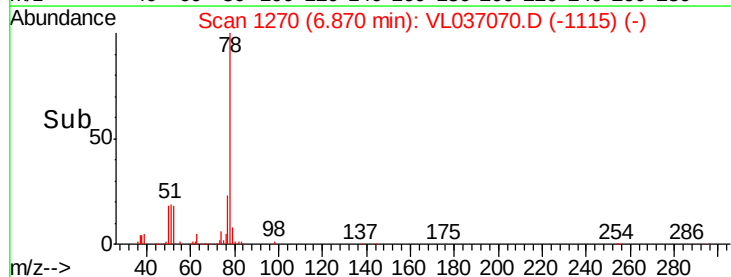
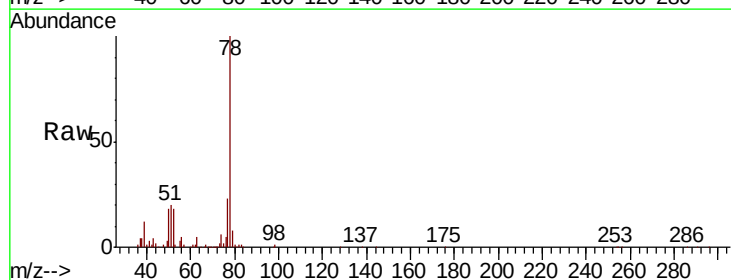
Manual Integrations
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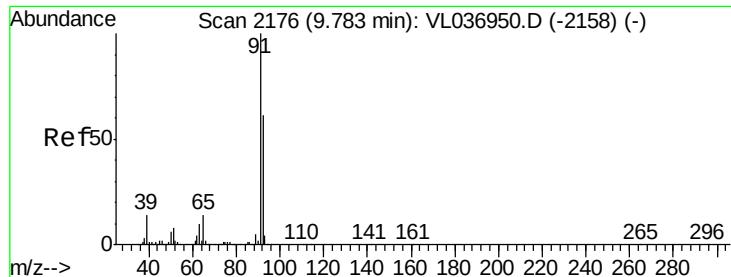
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#36
Benzene
Concen: 0.518 ppbv
RT: 6.87 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VL037070.D
Acq: 1 Jun 2021 15:06

Tgt Ion	78	Ratio	Lower	Upper
78	100			
77	22.2	18.6	28.0	
50	16.7	15.0	22.4	





#53

Toluene

Concen: 19.995 ppbv

RT: 9.79 min Scan# 2178

Delta R.T. 0.01 min

Lab File: VL037070.D

Acq: 1 Jun 2021 15:06

Instrument :

MSVOA_L

ClientSampleId :

HSG2

Tot Ion: 91 Resp: 9952068

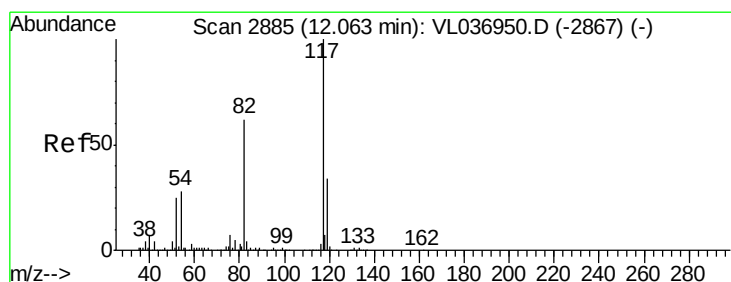
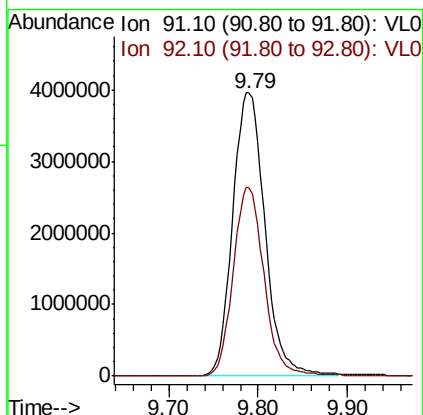
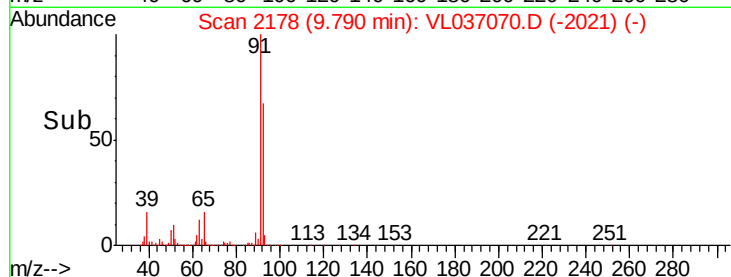
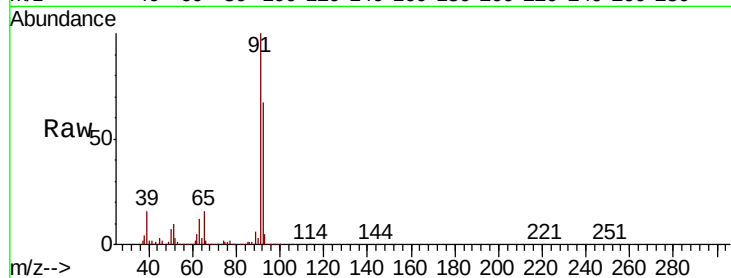
Ion Ratio Lower Upper

91 100

92 64.4 49.5 74.3

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. 0.00 min

Lab File: VL037070.D

Acq: 1 Jun 2021 15:06

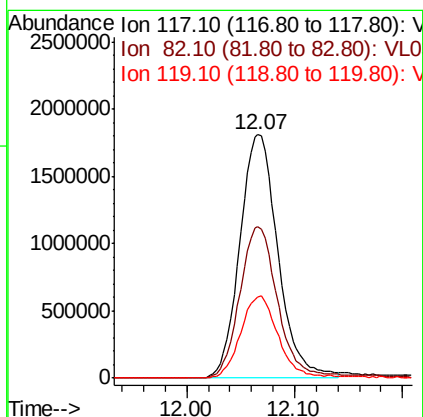
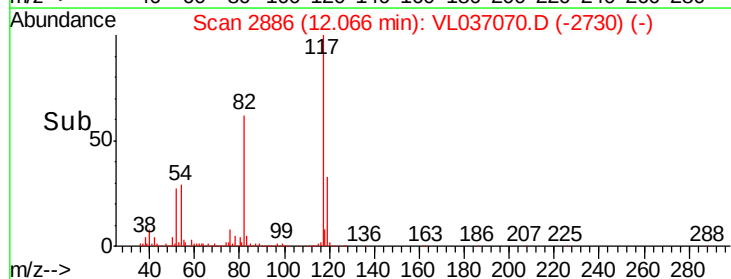
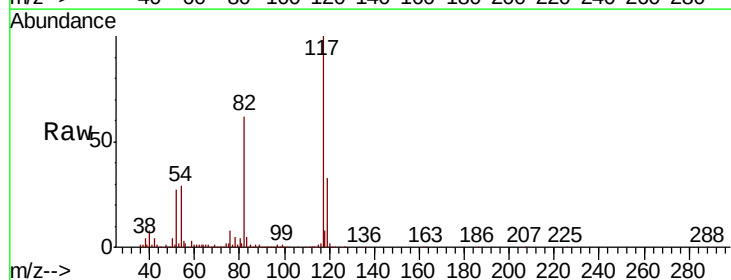
Tgt Ion: 117 Resp: 4455180

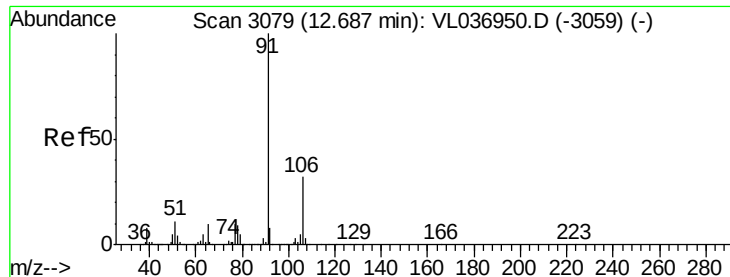
Ion Ratio Lower Upper

117 100

82 63.5 52.6 79.0

119 34.2 46.6 70.0#





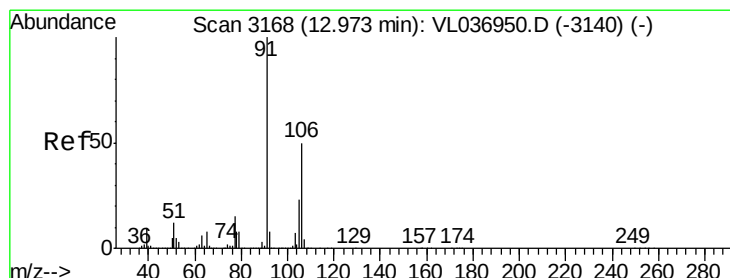
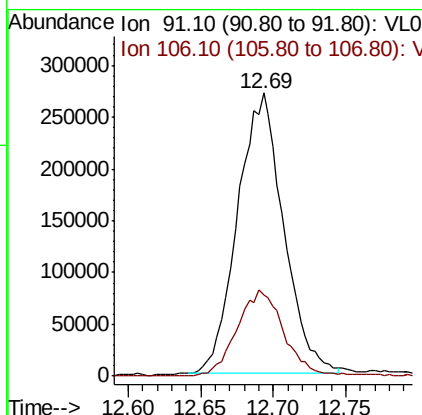
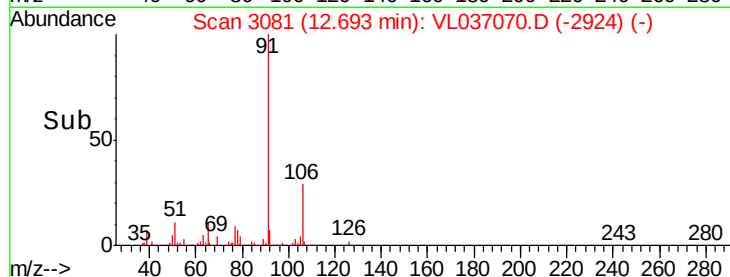
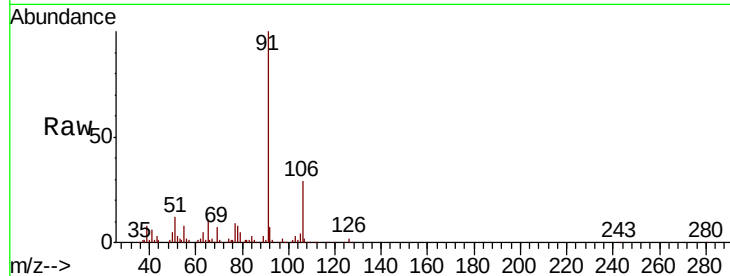
#58
Ethyl Benzene
Concen: 0.951 ppbv
RT: 12.69 min Scan# 3081
Delta R.T. 0.01 min
Lab File: VL037070.D
Acq: 1 Jun 2021 15:06

Instrument :
MSVOA_L
ClientSampled :
HSG2

Tot Ion: 91 Resp: 598113
Ion Ratio Lower Upper
91 100
106 29.0 25.6 38.4

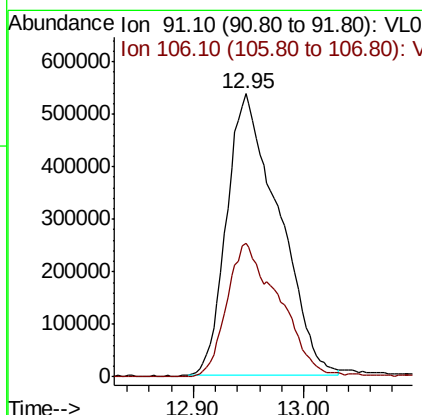
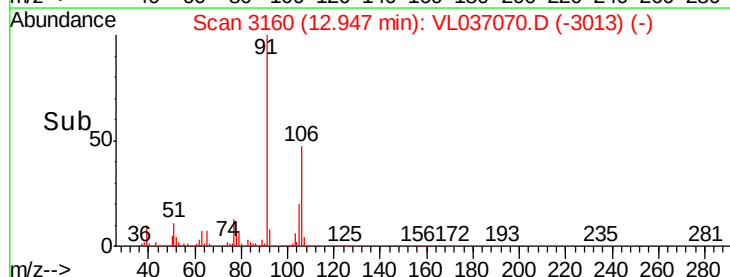
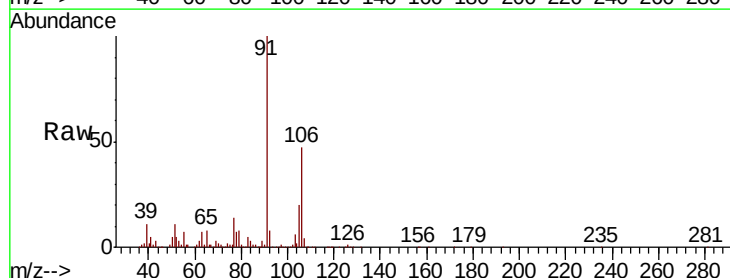
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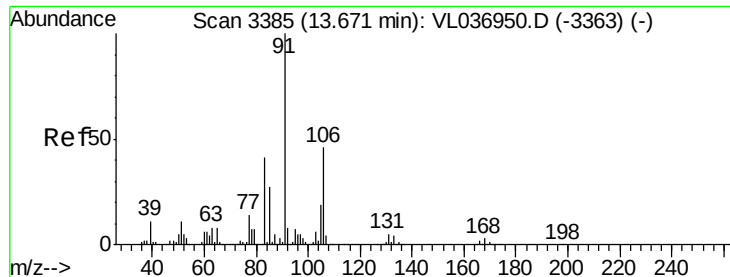
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#59
m/p-Xylene
Concen: 3.385 ppbv
RT: 12.95 min Scan# 3160
Delta R.T. -0.03 min
Lab File: VL037070.D
Acq: 1 Jun 2021 15:06

Tgt Ion: 91 Resp: 1759485
Ion Ratio Lower Upper
91 100
106 47.8 37.4 56.2





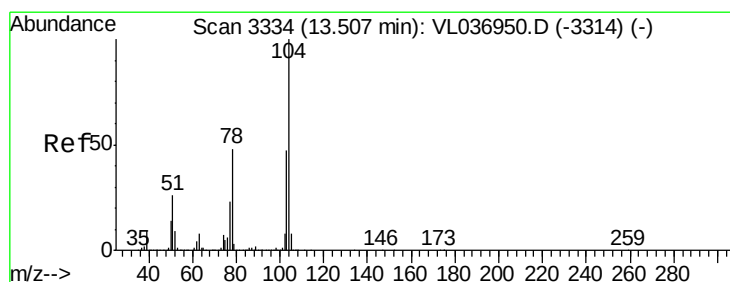
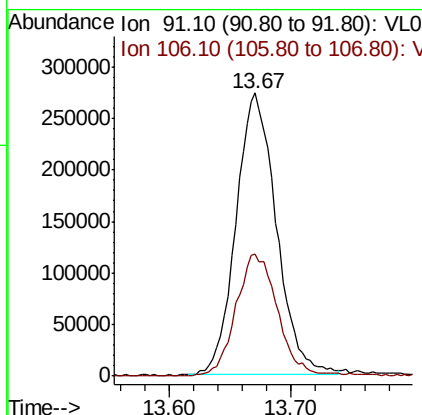
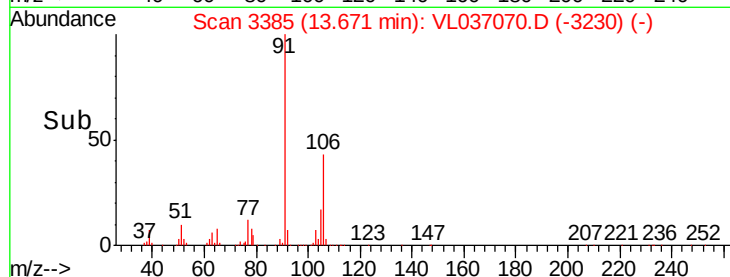
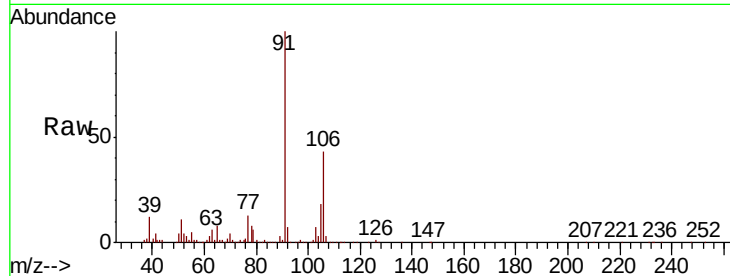
#60
o-Xylene
Concen: 1.263 ppbv
RT: 13.67 min Scan# 3385
Delta R.T. -0.00 min
Lab File: VL037070.D
Acq: 1 Jun 2021 15:06

Instrument :
MSVOA_L
ClientSampled :
HSG2

Tot Ion: 91 Resp: 626294
Ion Ratio Lower Upper
91 100
106 45.2 23.4 70.3

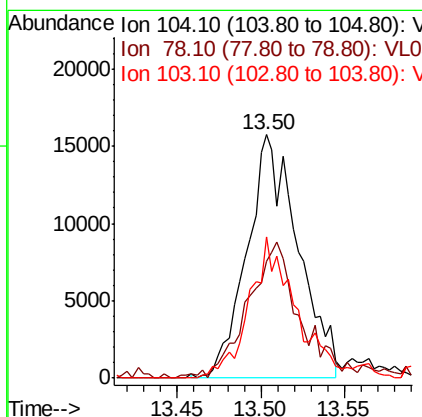
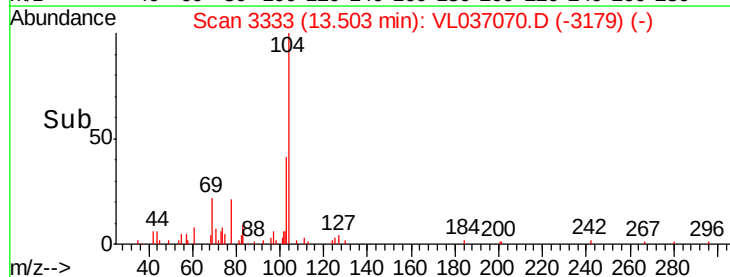
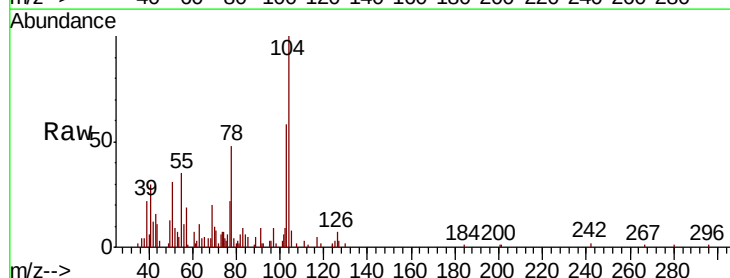
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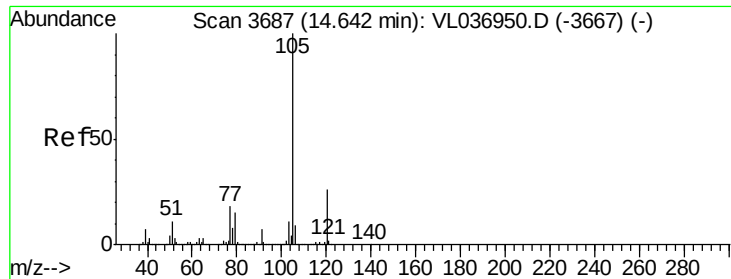
MMDadoda
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#61
Styrene
Concen: 0.120 ppbv m
RT: 13.50 min Scan# 3333
Delta R.T. -0.00 min
Lab File: VL037070.D
Acq: 1 Jun 2021 15:06

Tgt Ion: 104 Resp: 33644
Ion Ratio Lower Upper
104 100
78 59.3 39.0 58.6#
103 0.0 38.0 57.0#





#62

Isopropylbenzene

Concen: 0.688 ppbv

RT: 14.65 min Scan# 3689

Delta R.T. 0.01 min

Lab File: VL037070.D

Acq: 1 Jun 2021 15:06

Instrument :

MSVOA_L

ClientSampleId :

HSG2

Tot Ion:105 Resp: 490370

Ion Ratio Lower Upper

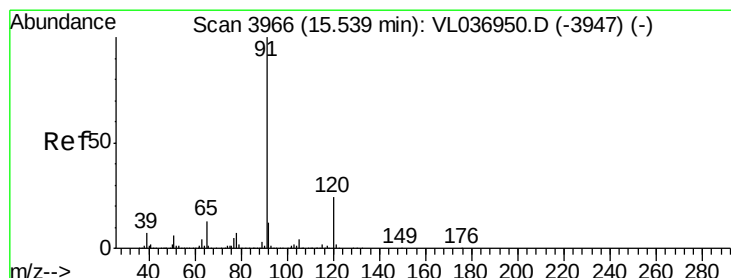
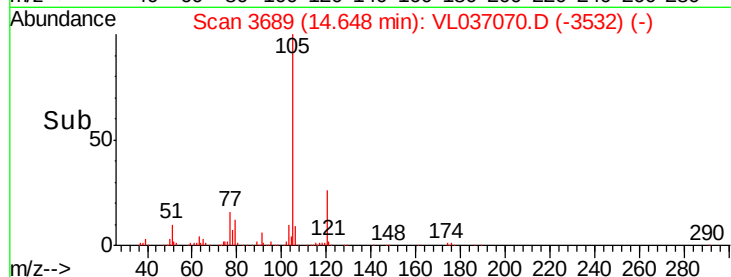
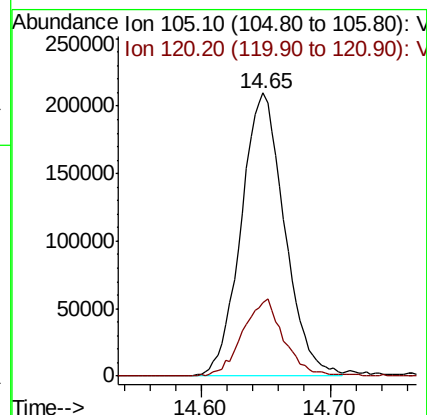
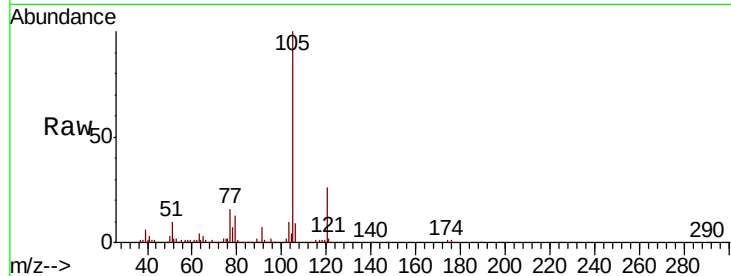
105 100

120 26.3 21.7 32.5

Manual Integrations
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#64

n-propylbenzene

Concen: 0.202 ppbv m

RT: 15.55 min Scan# 3969

Delta R.T. 0.01 min

Lab File: VL037070.D

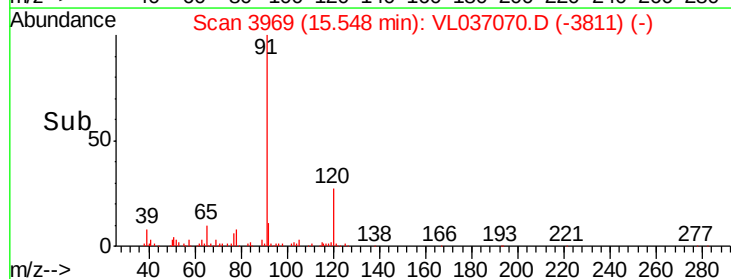
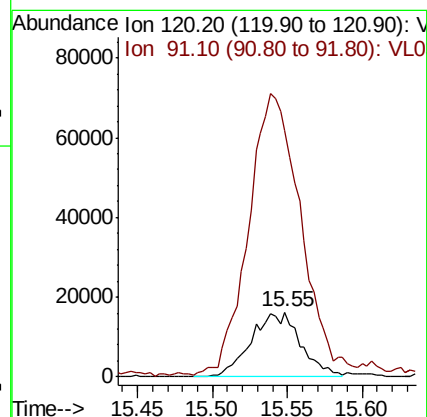
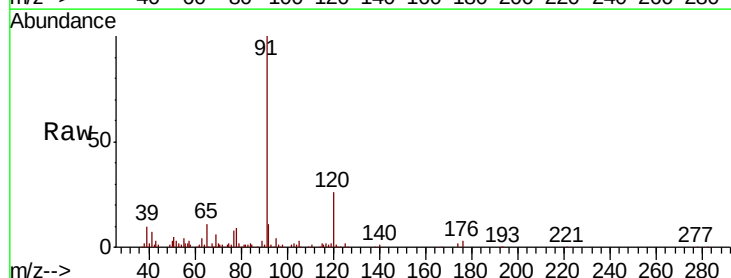
Acq: 1 Jun 2021 15:06

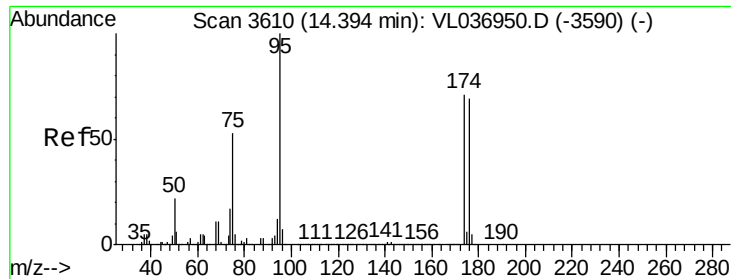
Tgt Ion:120 Resp: 37067

Ion Ratio Lower Upper

120 100

91 466.3 343.8 515.6





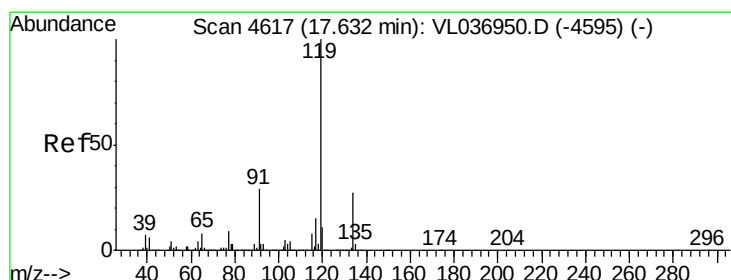
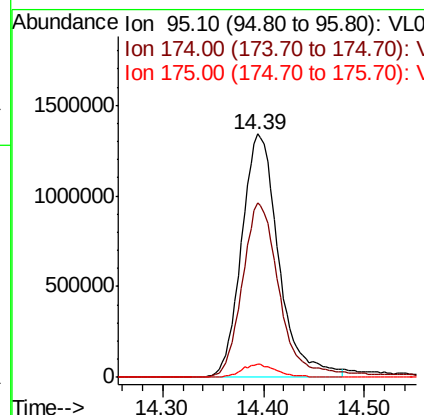
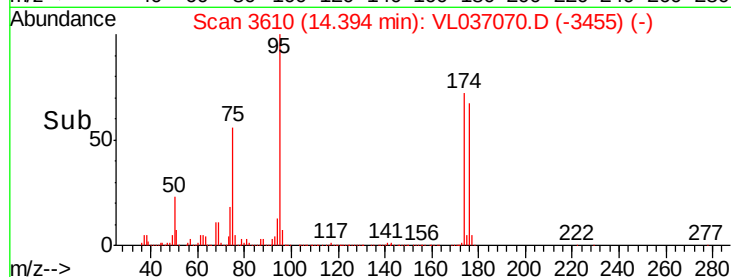
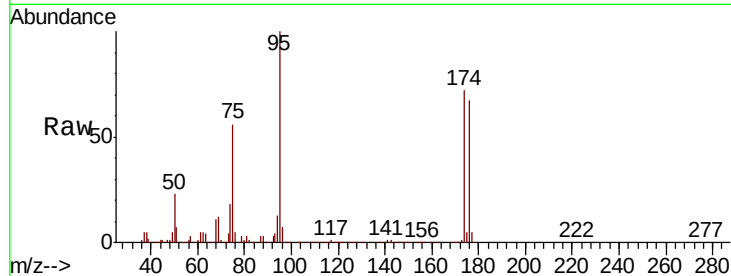
#68
1-Bromo-4-Fluorobenzene
Concen: 10.217 ppbv
RT: 14.39 min Scan# 3610
Delta R.T. -0.00 min
Lab File: VL037070.D
Acq: 1 Jun 2021 15:06

Instrument :
MSVOA_L
ClientSampleId :
HSG2

Tot Ion: 95 Resp: 3419571
Ion Ratio Lower Upper
95 100
174 74.2 58.4 87.6
175 5.3 4.4 6.6

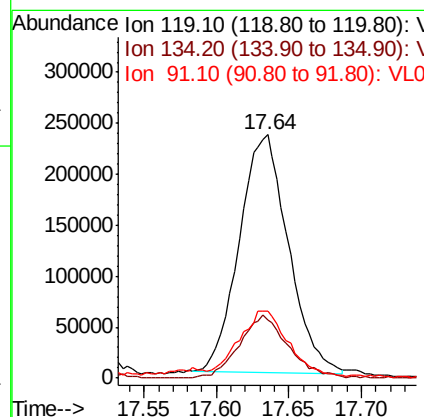
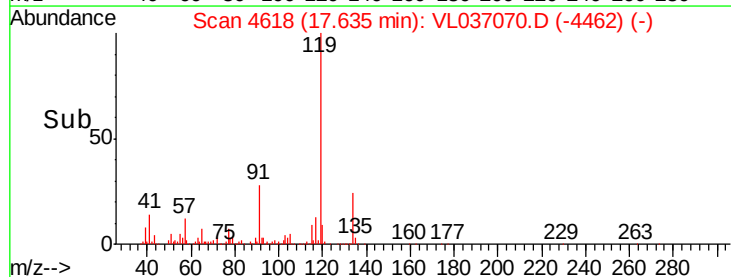
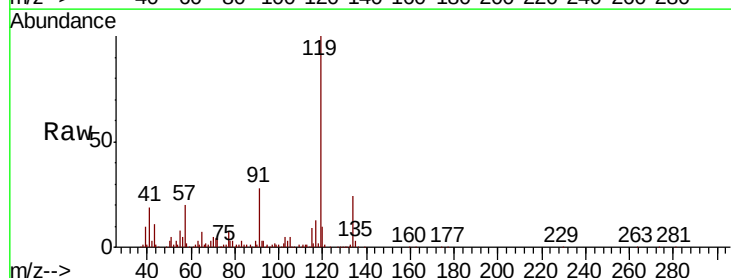
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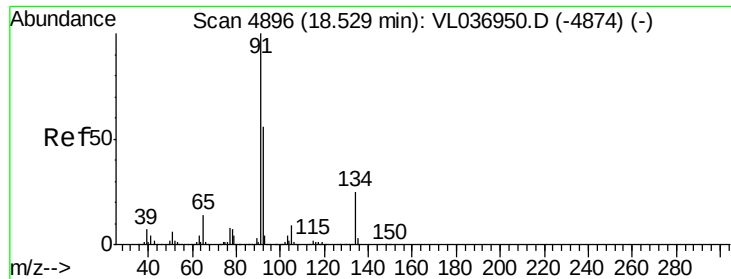
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#69
p-Isopropyltoluene
Concen: 0.727 ppbv
RT: 17.64 min Scan# 4618
Delta R.T. 0.00 min
Lab File: VL037070.D
Acq: 1 Jun 2021 15:06

Tgt Ion: 119 Resp: 548416
Ion Ratio Lower Upper
119 100
134 26.7 21.2 31.8
91 32.4 22.2 33.4





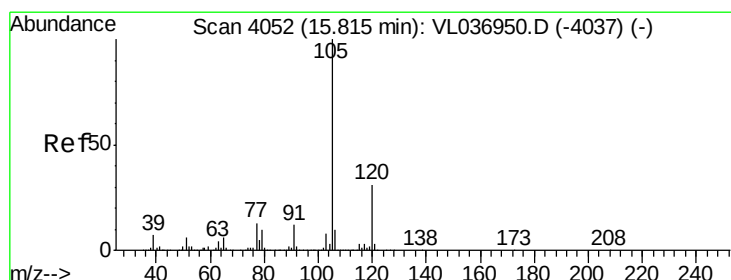
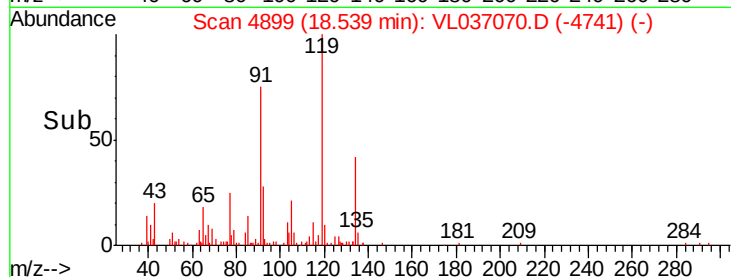
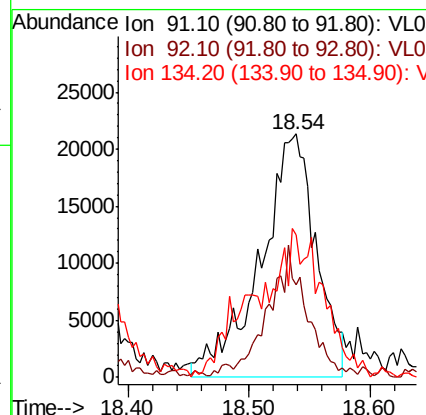
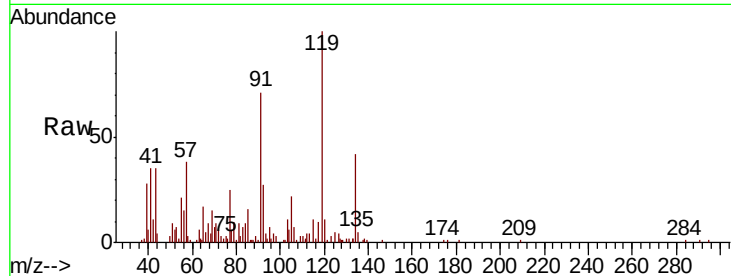
#70
n-Butylbenzene
Concen: 0.096 ppbv m
RT: 18.54 min Scan# 4899
Delta R.T. 0.01 min
Lab File: VL037070.D
Acq: 1 Jun 2021 15:06

Instrument :
MSVOA_L
ClientSampled :
HSG2

Tot Ion	Ratio	Lower	Upper
91	100		
92	40.3	44.6	66.8#
134	73.0	20.2	30.2#

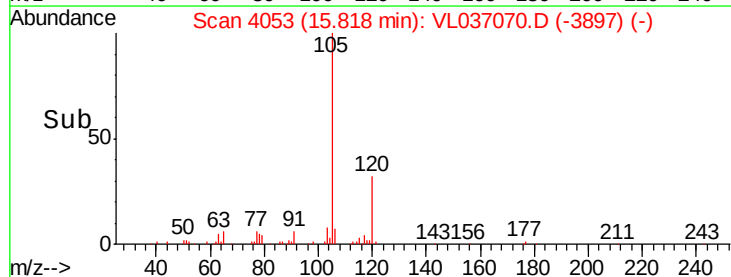
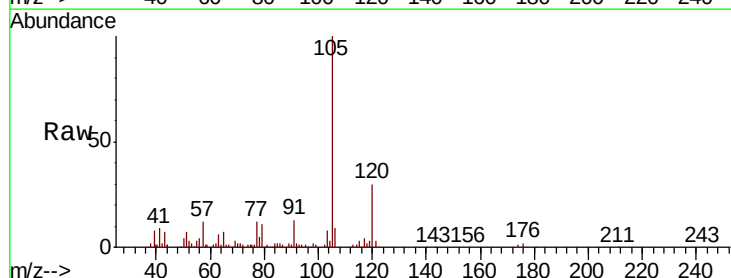
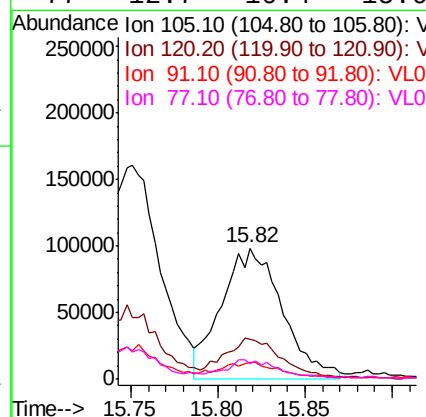
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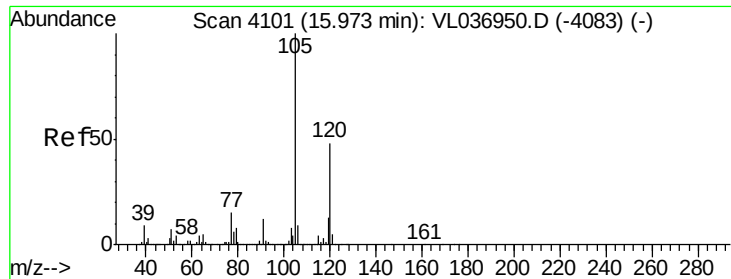
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#72
4-Ethyltoluene
Concen: 0.408 ppbv m
RT: 15.82 min Scan# 4053
Delta R.T. 0.00 min
Lab File: VL037070.D
Acq: 1 Jun 2021 15:06

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	24.6	37.0#
91	0.0	9.8	14.6#
77	12.7	10.4	15.6





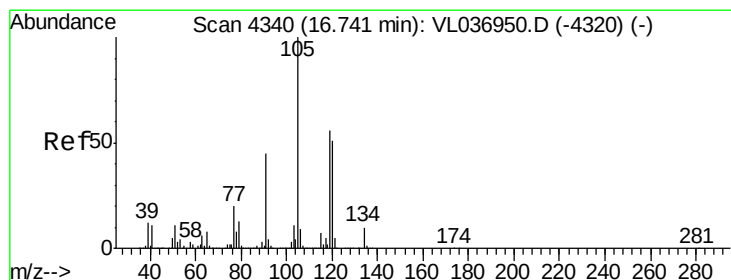
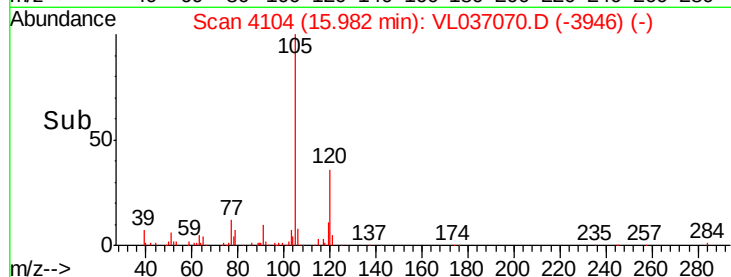
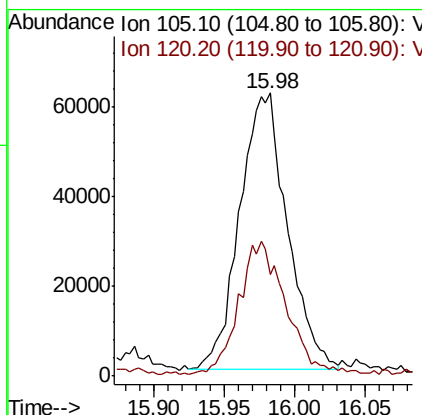
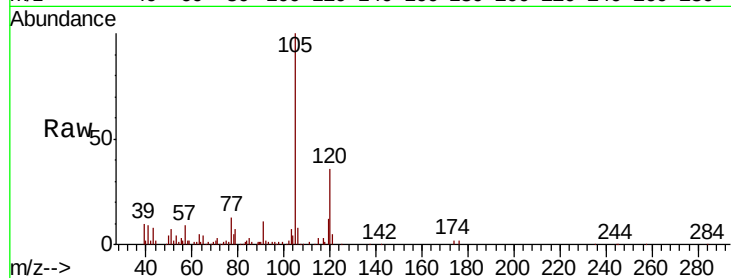
#73
 1,3,5-Trimethylbenzene
 Concen: 0.264 ppbv
 RT: 15.98 min Scan# 4104
 Delta R.T. 0.01 min
 Lab File: VL037070.D
 Acq: 1 Jun 2021 15:06

Instrument :
 MSVOA_L
 ClientSampleId :
 HSG2

Tot Ion	Ratio	Lower	Upper
105	100		
120	36.3	38.6	58.0#

Manual Integrations
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#74
 1,2,4-Trimethylbenzene
 Concen: 1.044 ppbv
 RT: 16.74 min Scan# 4341
 Delta R.T. 0.00 min
 Lab File: VL037070.D
 Acq: 1 Jun 2021 15:06

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.3	40.6	61.0
91	10.2	37.4	56.0#
77	13.2	16.2	24.4#

