

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051921\
 Data File : VL037015.D
 Acq On : 20 May 2021 6:14
 Operator : SY/AP
 Sample : M2424-12 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-10

Manual Integrations
 APPROVED

MMDadoda
 5/24/2021 3:03:02 PM

Quant Time: May 20 08:55:46 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	5.64	49	982033	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.14	114	2816125	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.05	117	2592187	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.38	95	1998307	10.26	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	2.99	41	94984	1.474	ppbv	98
10) Heptane	8.09	43	35458	0.221	ppbv	90
11) Trichlorofluoromethane	3.92	101	36789m	0.239	ppbv	
13) Ethanol	3.59	45	67683m	7.874	ppbv	
15) Acetone	3.82	43	6228185	61.919	ppbv	98
17) tert-Butyl alcohol	4.29	59	59401	0.645	ppbv #	90
19) Isopropyl Alcohol	3.96	45	92416m	1.709	ppbv	
20) Methylene Chloride	4.31	84	17344	0.322	ppbv	89
26) Hexane	5.65	57	81095	0.657	ppbv #	11
30) Cyclohexane	7.10	84	47072	0.449	ppbv	90
34) 2-Butanone	5.22	43	365461	3.564	ppbv	95
36) Benzene	6.85	78	36417	0.150	ppbv	94
43) Methyl Methacrylate	8.02	69	16982m	0.203	ppbv	
51) 2-Hexanone	10.12	43	24706	0.276	ppbv #	42
53) Toluene	9.77	91	119259m	0.413	ppbv	
59) m/p-Xylene	12.93	91	39110m	0.129	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.65	83	31645	0.147	ppbv #	25
74) 1,2,4-Trimethylbenzene	16.73	105	52625m	0.158	ppbv	

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

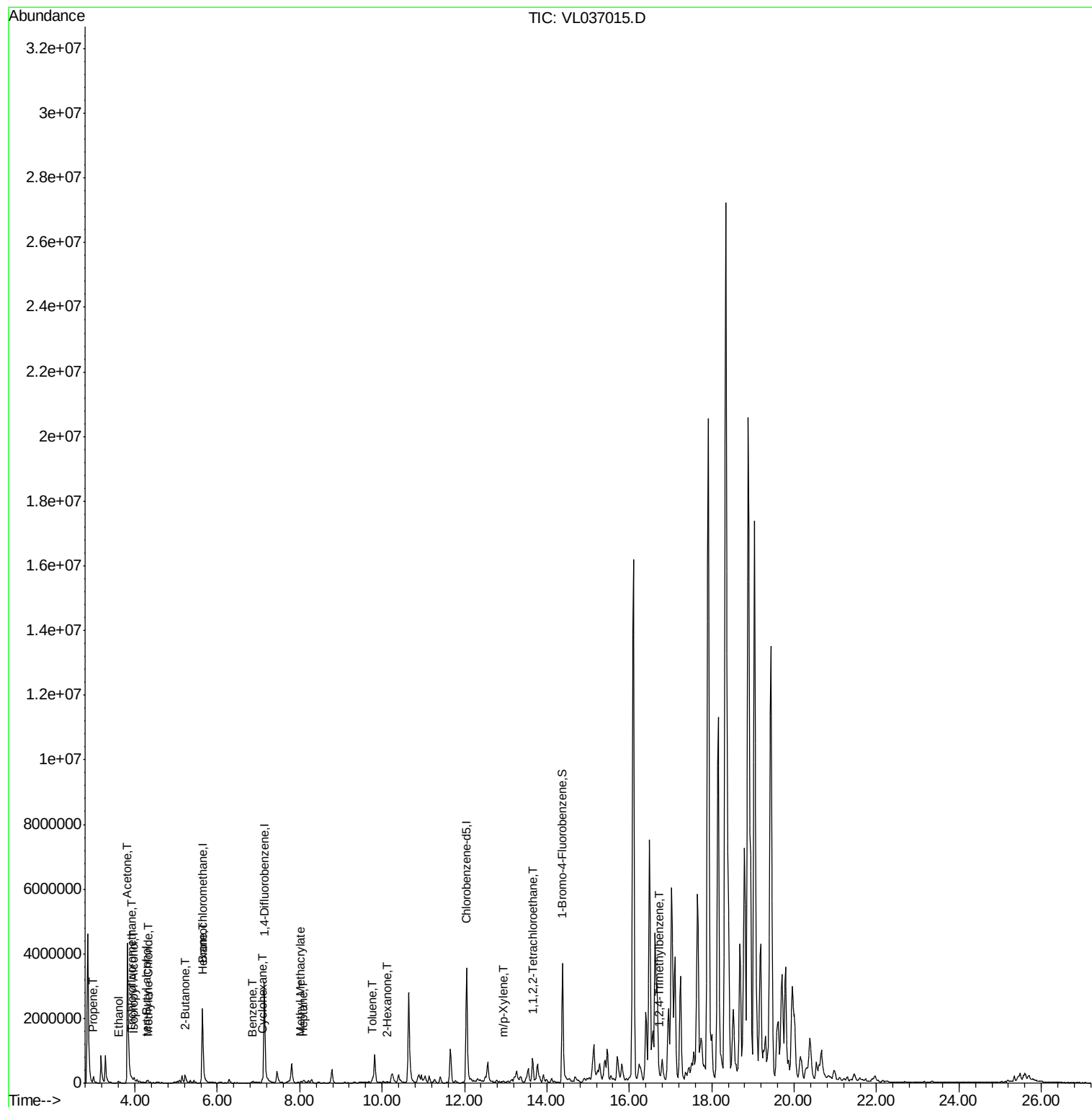
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051921\
Data File : VL037015.D
Acq On : 20 May 2021 6:14
Operator : SY/AP
Sample : M2424-12 10X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

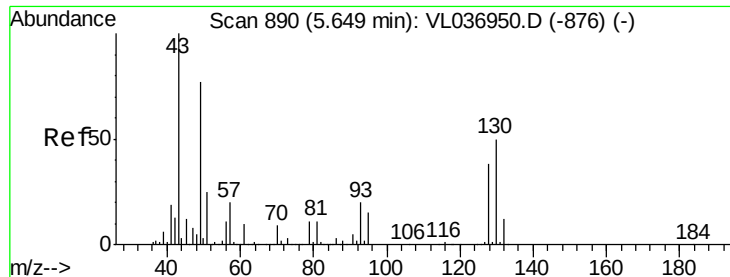
Instrument :
MSVOA_L
ClientSampleId :
KSV-10

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Quant Time: May 20 08:55:46 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue May
QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 887

Delta R.T. -0.01 min

Lab File: VL037015.D

Acq: 20 May 2021 6:14

Instrument :

MSVOA_L

ClientSampled :

KSV-10

Tot Ion: 49 Resp: 982033

Ion Ratio Lower Upper

49 100

128 52.9 26.9 80.7

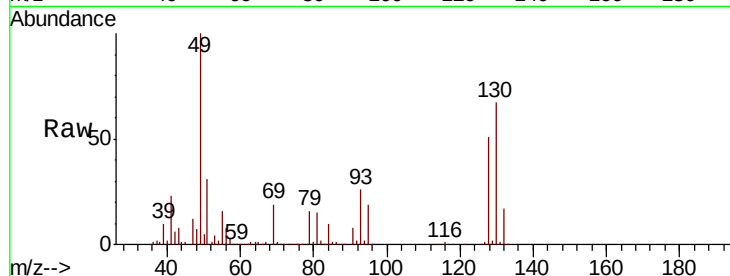
130 67.8 33.8 101.4

Manual Integrations

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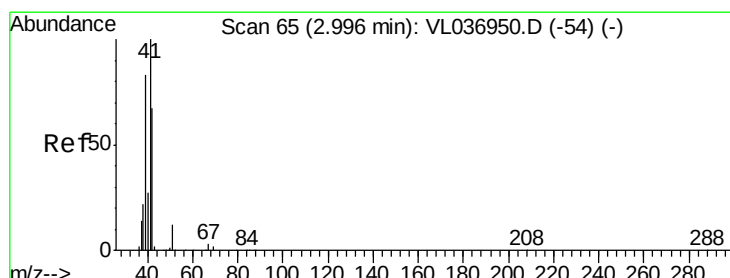
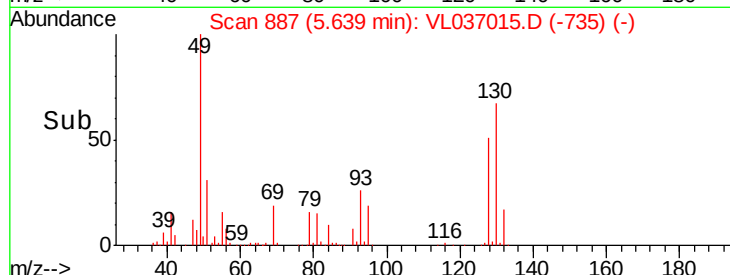
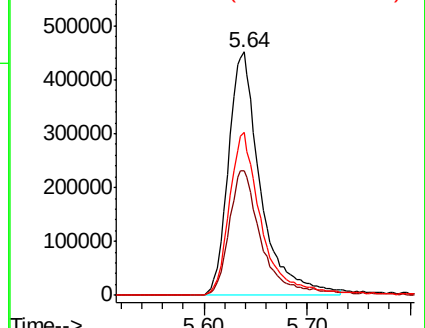
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#9

Propene

Concen: 1.474 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.01 min

Lab File: VL037015.D

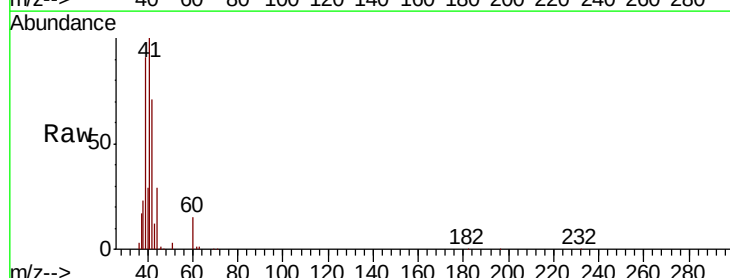
Acq: 20 May 2021 6:14

Tgt Ion: 41 Resp: 94984

Ion Ratio Lower Upper

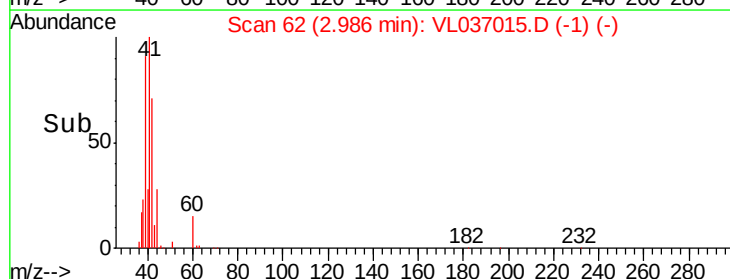
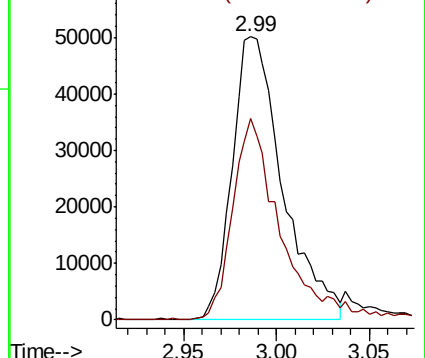
41 100

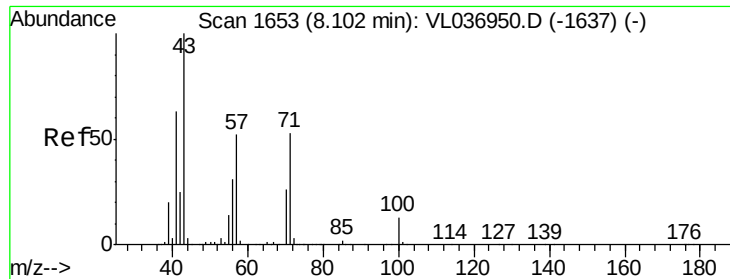
42 69.1 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





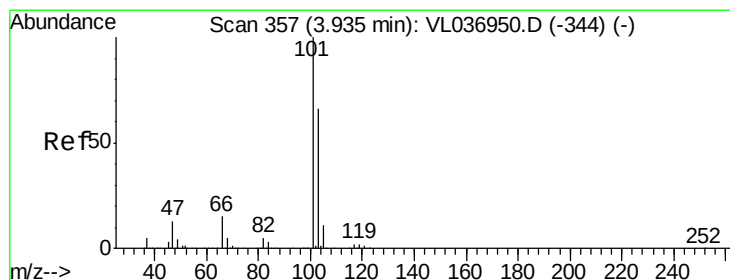
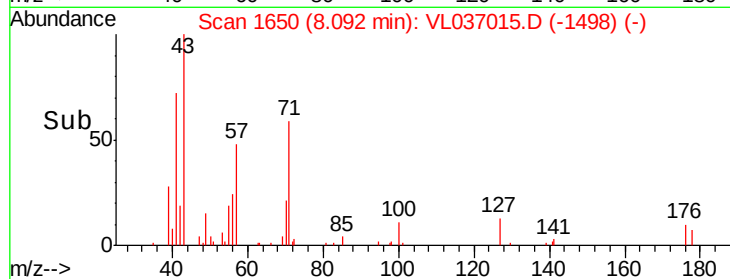
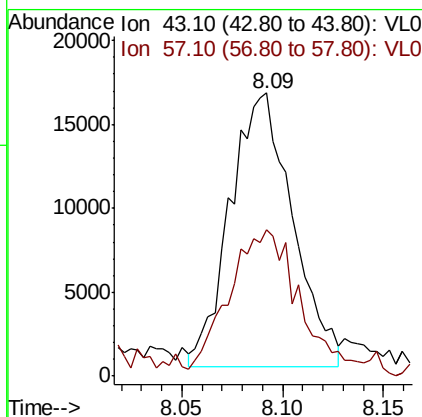
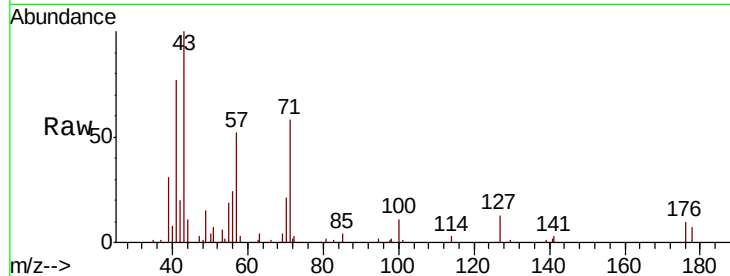
#10
Heptane
Concen: 0.221 ppbv
RT: 8.09 min Scan# 1650
Delta R.T. -0.01 min
Lab File: VL037015.D
Acq: 20 May 2021 6:14

Instrument :
MSVOA_L
ClientSampled :
KSV-10

Tot Ion	43	Resp	35458
Ion Ratio	100	Lower	Upper
43	100		
57	58.6	41.0	61.6

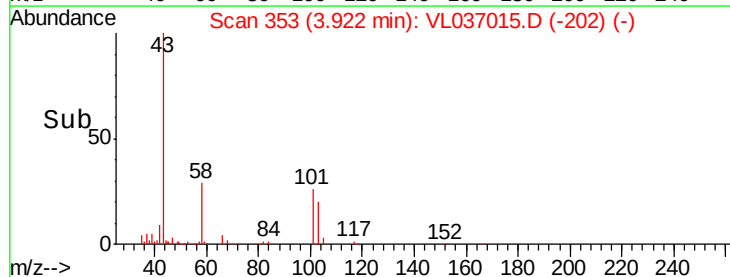
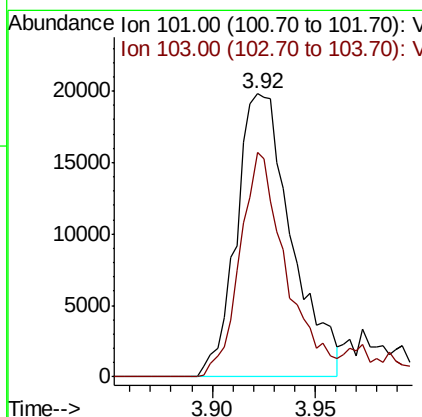
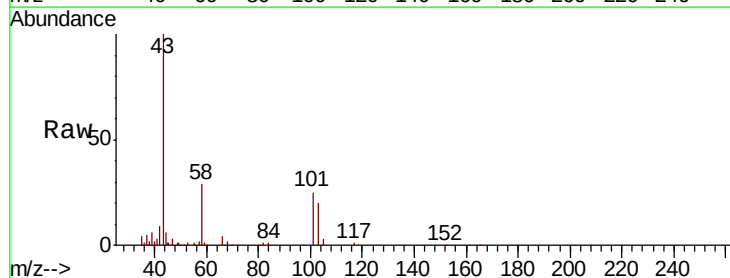
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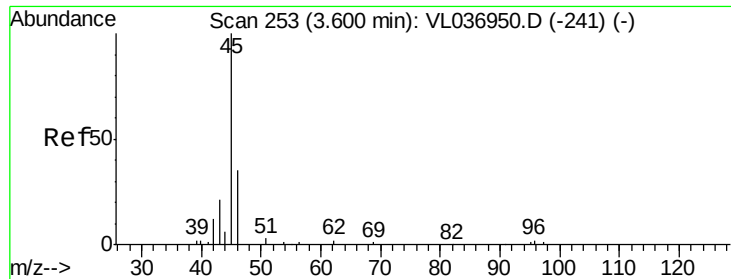
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#11
Trichlorofluoromethane
Concen: 0.239 ppbv m
RT: 3.92 min Scan# 353
Delta R.T. -0.01 min
Lab File: VL037015.D
Acq: 20 May 2021 6:14

Tgt Ion	101	Resp	36789
Ion Ratio	100	Lower	Upper
101	100		
103	79.1	52.6	79.0#





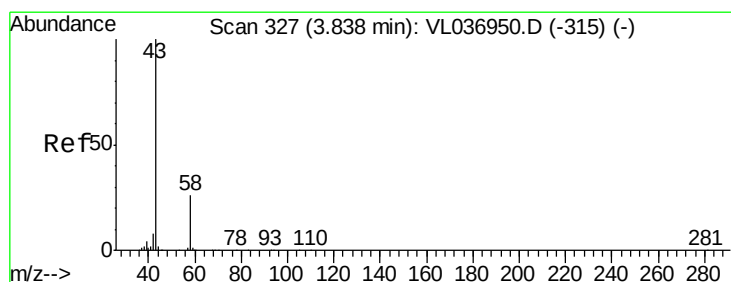
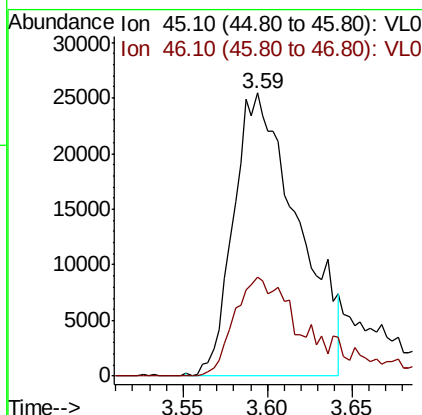
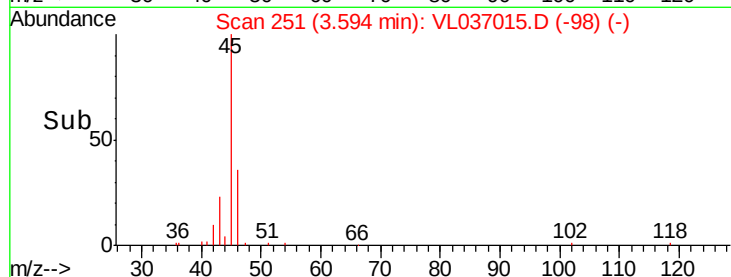
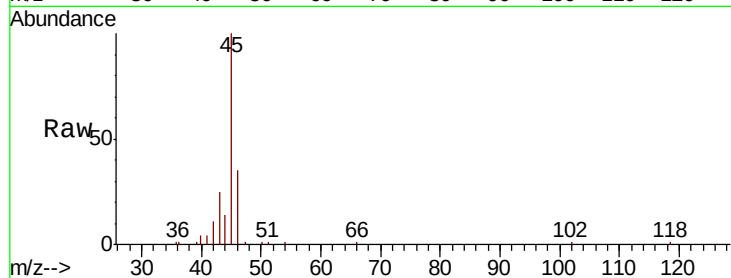
#13
Ethanol
Concen: 7.874 ppbv m
RT: 3.59 min Scan# 251
Delta R.T. -0.01 min
Lab File: VL037015.D
Acq: 20 May 2021 6:14

Instrument :
MSVOA_L
ClientSampled :
KSV-10

Tot Ion: 45 Resp: 67683
Ion Ratio Lower Upper
45 100
46 41.1 16.3 65.3

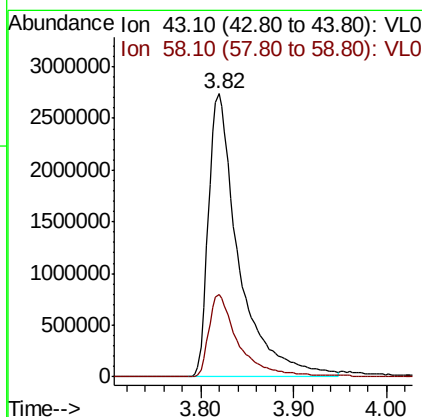
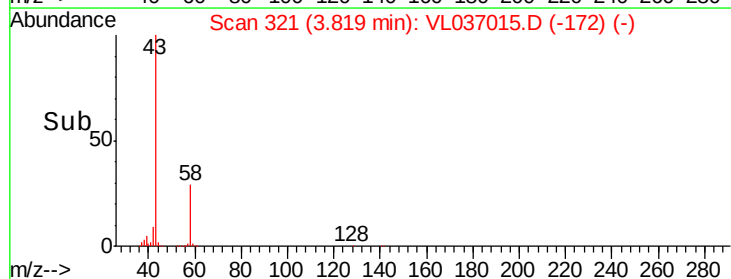
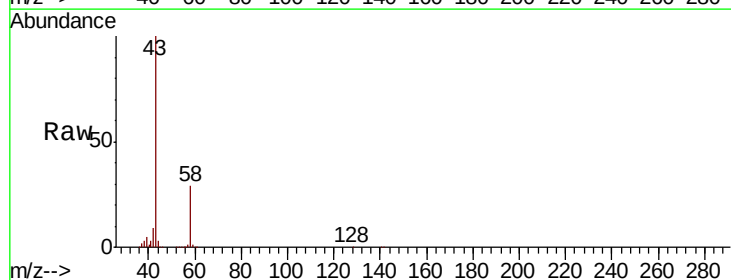
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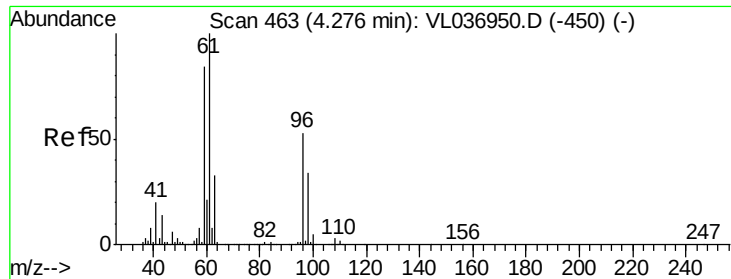
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#15
Acetone
Concen: 61.919 ppbv
RT: 3.82 min Scan# 321
Delta R.T. -0.02 min
Lab File: VL037015.D
Acq: 20 May 2021 6:14

Tgt Ion: 43 Resp: 6228185
Ion Ratio Lower Upper
43 100
58 29.2 24.0 36.0





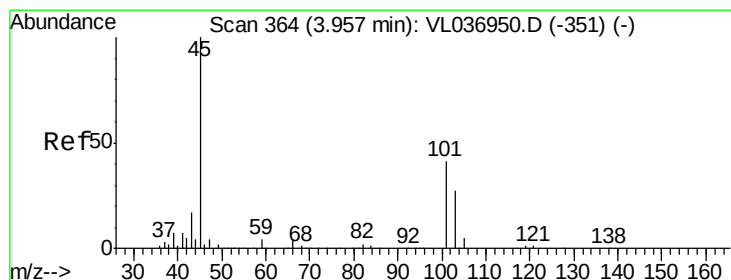
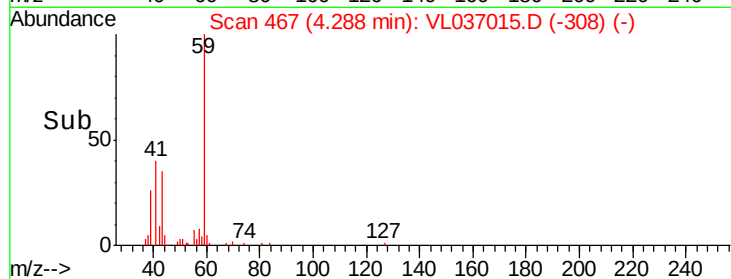
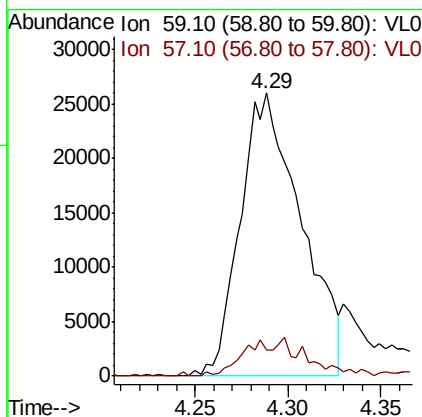
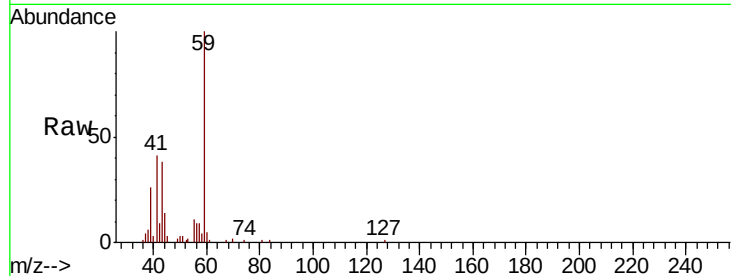
#17
tert-Butyl alcohol
Concen: 0.645 ppbv
RT: 4.29 min Scan# 467
Delta R.T. 0.01 min
Lab File: VL037015.D
Acq: 20 May 2021 6:14

Instrument :
MSVOA_L
ClientSampled :
KSV-10

Tot Ion	Ratio	Lower	Upper
59	100		
57	14.3	8.3	12.5#

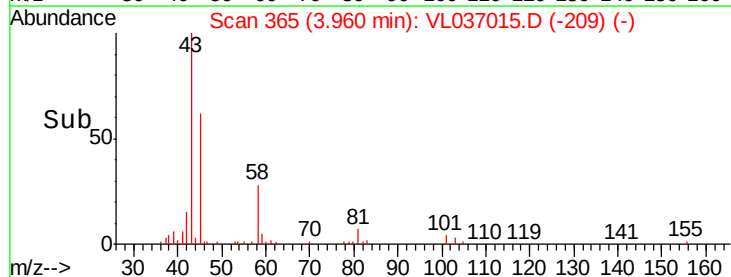
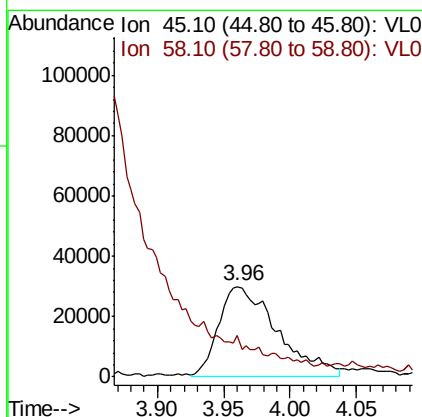
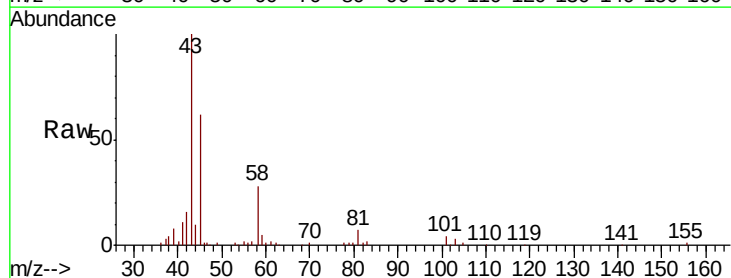
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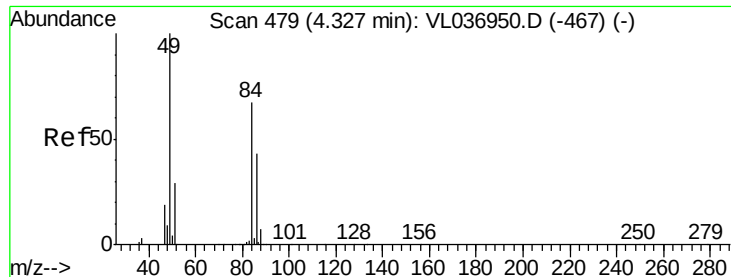
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#19
Isopropyl Alcohol
Concen: 1.709 ppbv m
RT: 3.96 min Scan# 365
Delta R.T. 0.00 min
Lab File: VL037015.D
Acq: 20 May 2021 6:14

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





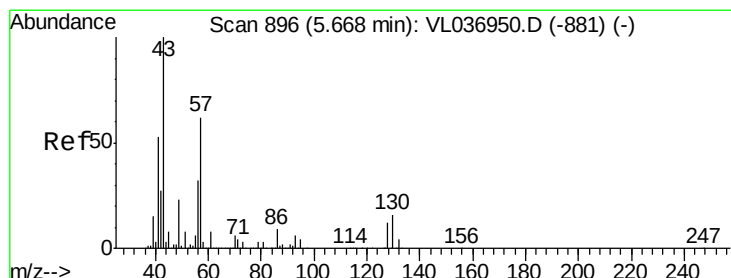
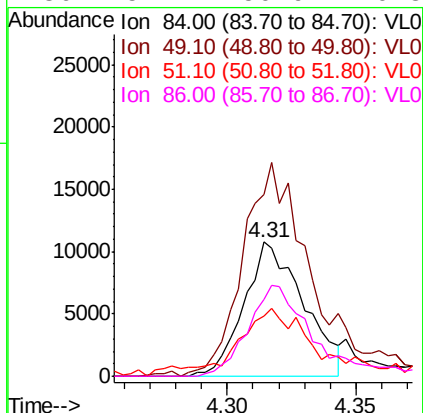
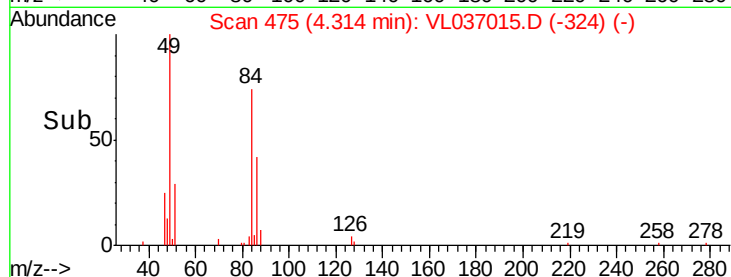
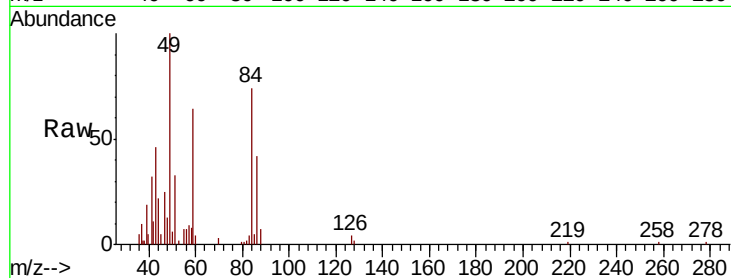
#20
Methylene Chloride
Concen: 0.322 ppbv
RT: 4.31 min Scan# 475
Delta R.T. -0.01 min
Lab File: VL037015.D
Acq: 20 May 2021 6:14

Instrument :
MSVOA_L
ClientSampled :
KSV-10

Tot Ion	84	Resp	17344
Ion	Ratio	Lower	Upper
84	100		
49	132.9	119.8	179.6
51	38.0	35.1	52.7
86	57.4	50.9	76.3

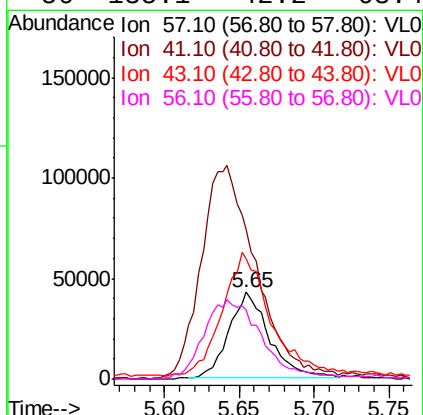
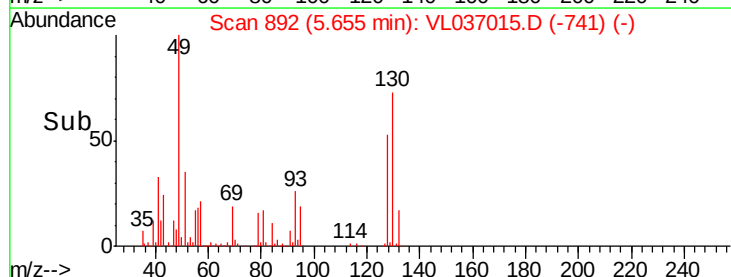
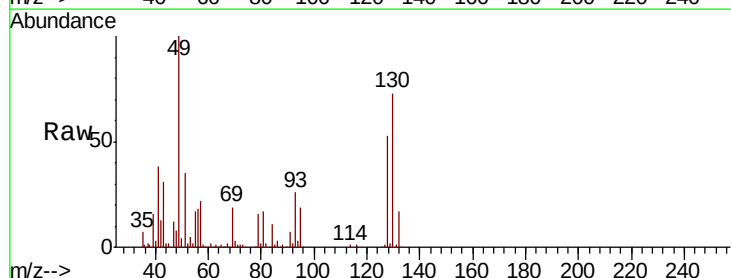
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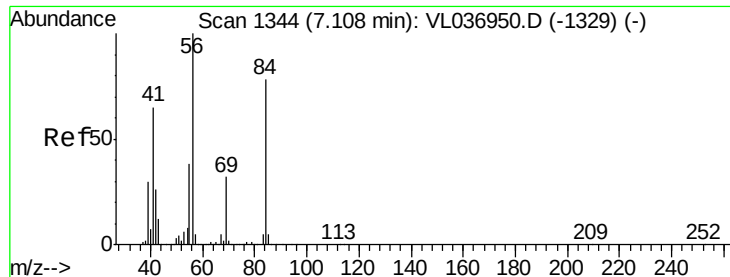
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#26
Hexane
Concen: 0.657 ppbv
RT: 5.65 min Scan# 892
Delta R.T. -0.01 min
Lab File: VL037015.D
Acq: 20 May 2021 6:14

Tgt Ion	57	Resp	81095
Ion	Ratio	Lower	Upper
57	100		
41	336.4	70.5	105.7#
43	197.6	165.8	248.8
56	135.1	42.2	63.4#





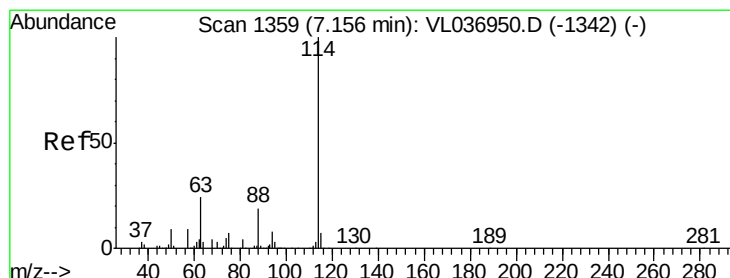
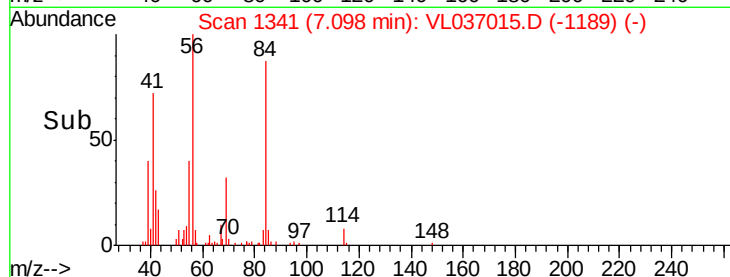
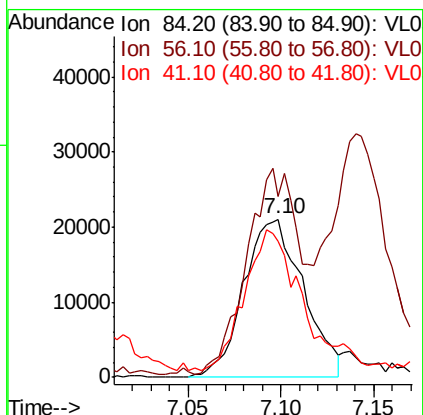
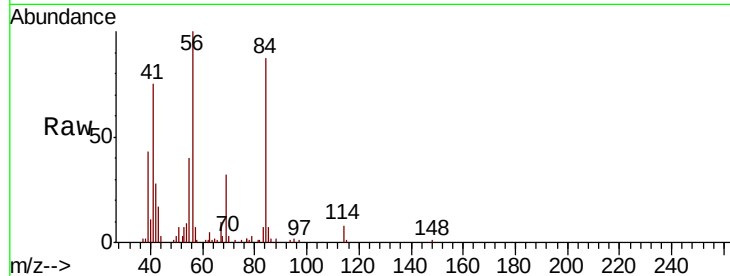
#30
Cyclohexane
Concen: 0.449 ppbv
RT: 7.10 min Scan# 1341
Delta R.T. -0.01 min
Lab File: VL037015.D
Acq: 20 May 2021 6:14

Instrument :
MSVOA_L
ClientSampled :
KSV-10

Tot Ion	Ratio	Lower	Upper
84	100		
56	120.1	107.9	161.9
41	87.9	65.5	98.3

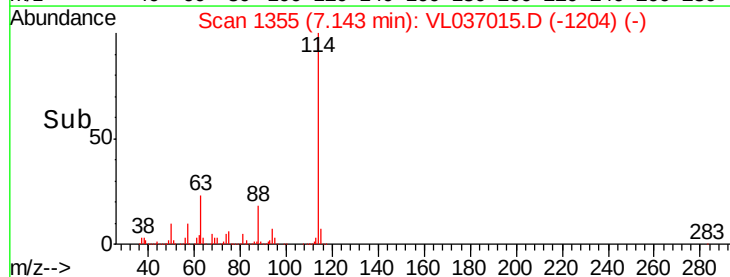
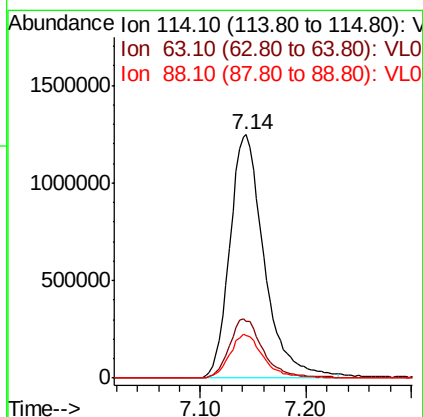
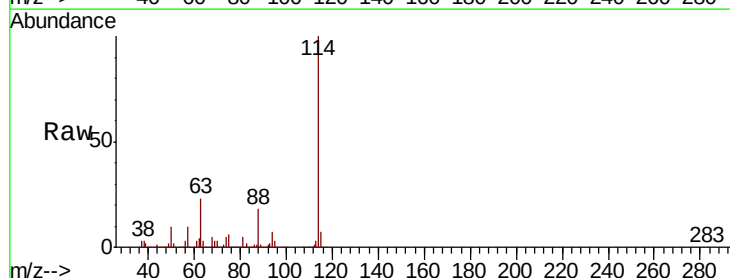
Manual Integrations
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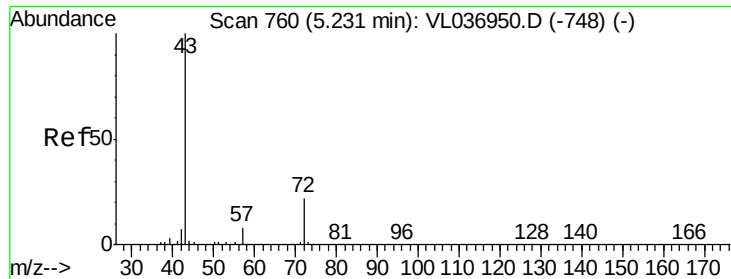
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.14 min Scan# 1355
Delta R.T. -0.01 min
Lab File: VL037015.D
Acq: 20 May 2021 6:14

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.3	19.6	29.4
88	17.8	14.6	21.8





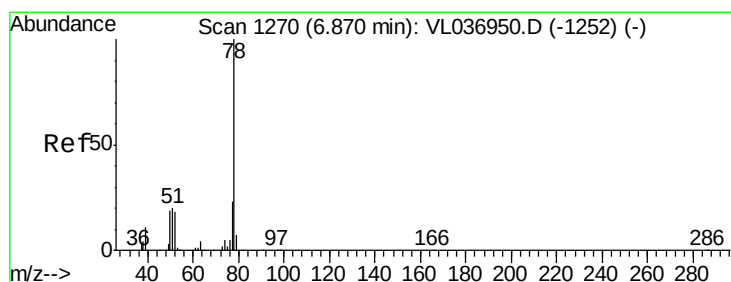
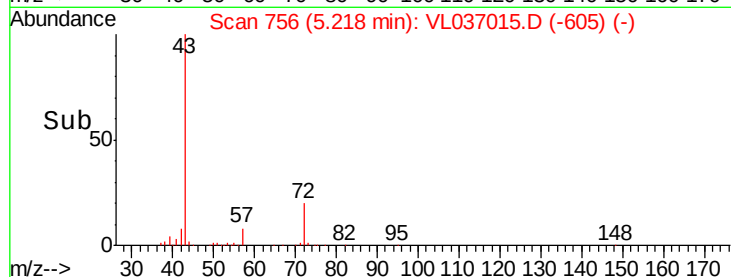
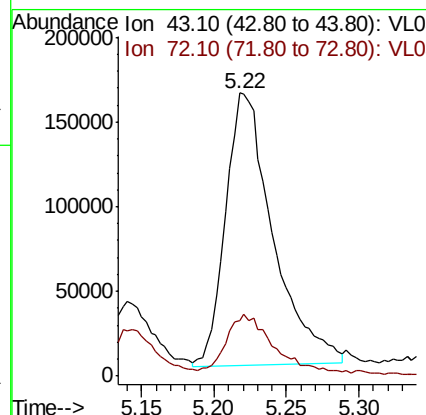
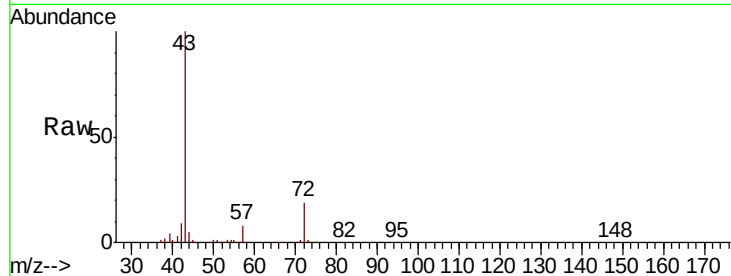
#34
2-Butanone
Concen: 3.564 ppbv
RT: 5.22 min Scan# 756
Delta R.T. -0.01 min
Lab File: VL037015.D
Acq: 20 May 2021 6:14

Instrument :
MSVOA_L
ClientSampled :
KSV-10

Tot Ion	43	Resp	365461
Ion Ratio	100	Lower	Upper
43	100		
72	26.3	19.0	28.4

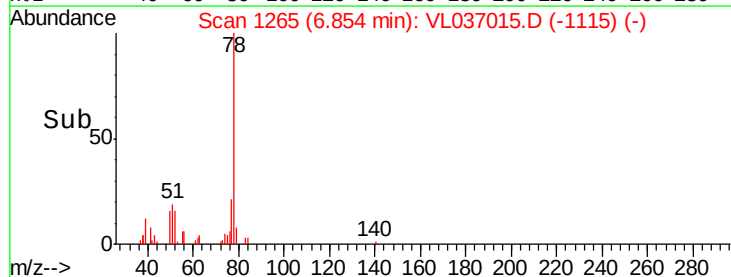
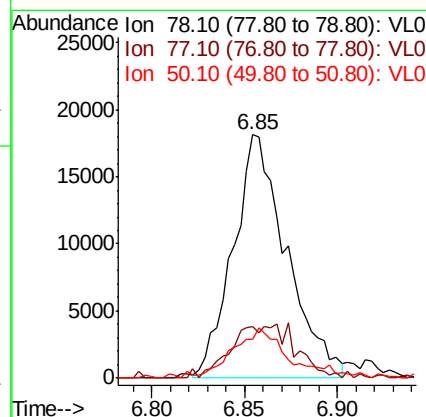
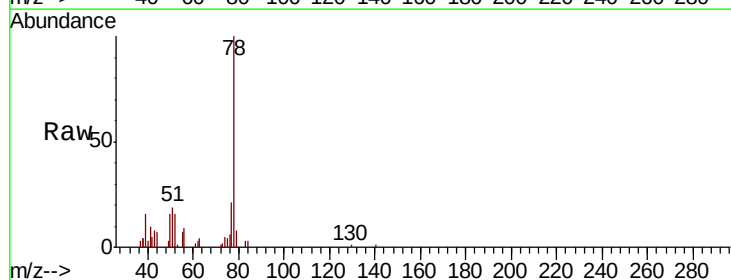
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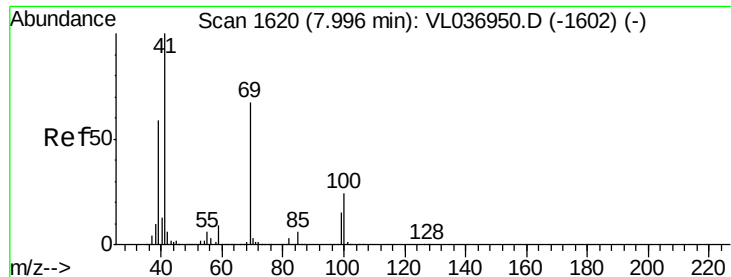
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#36
Benzene
Concen: 0.150 ppbv
RT: 6.85 min Scan# 1265
Delta R.T. -0.02 min
Lab File: VL037015.D
Acq: 20 May 2021 6:14

Tgt Ion	78	Resp	36417
Ion Ratio	100	Lower	Upper
78	100		
77	21.6	18.6	28.0
50	15.0	15.0	22.4





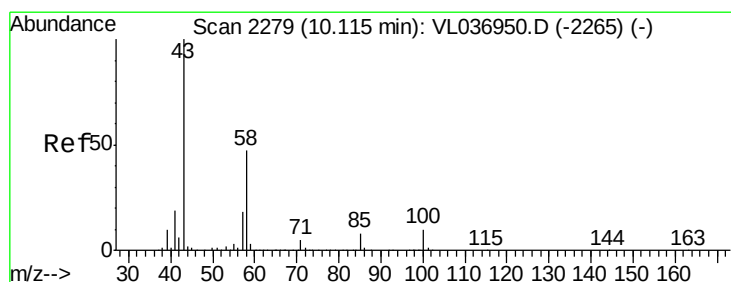
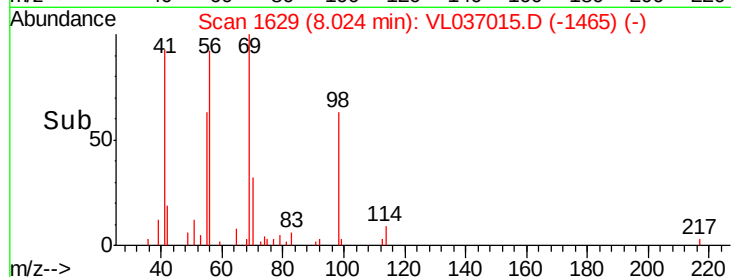
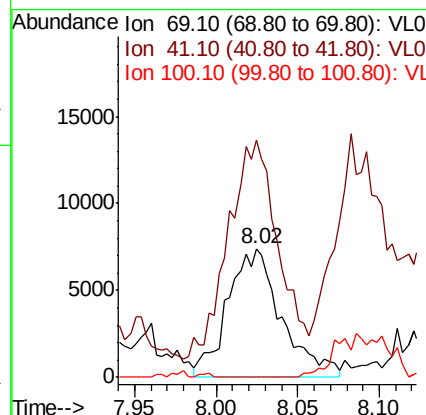
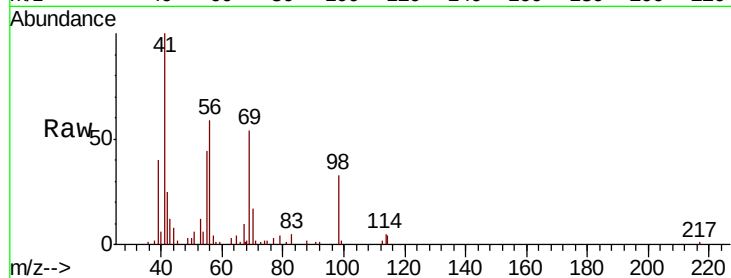
#43
Methvl Methacrylate
Concen: 0.203 ppbv m
RT: 8.02 min Scan# 1629
Delta R.T. 0.03 min
Lab File: VL037015.D
Acq: 20 May 2021 6:14

Instrument :
MSVOA_L
ClientSampled :
KSV-10

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	172.5	118.6	178.0	
100	2.2	28.2	42.4#	

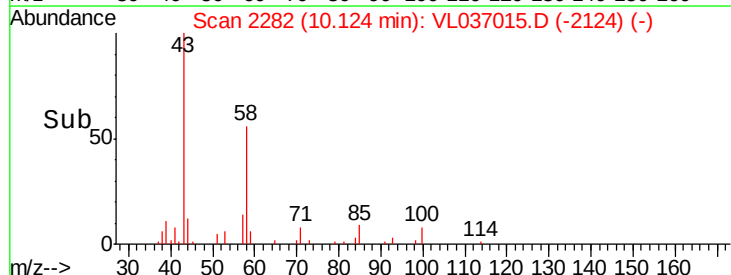
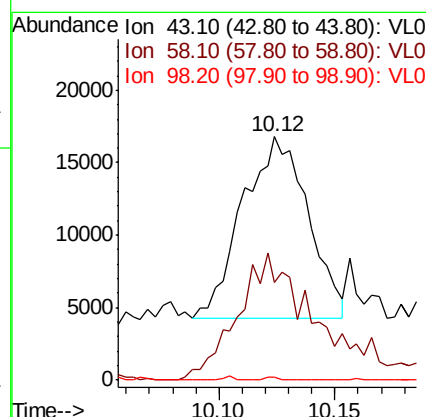
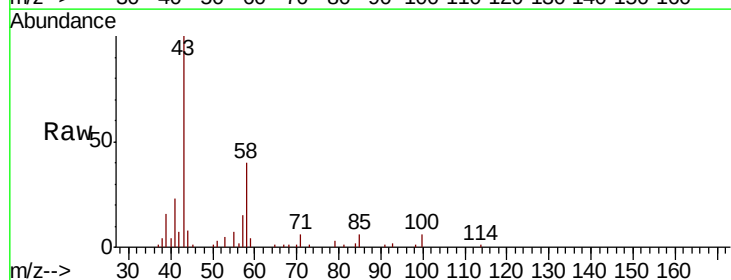
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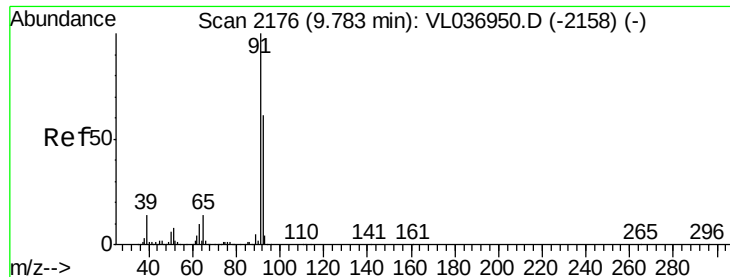
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#51
2-Hexanone
Concen: 0.276 ppbv
RT: 10.12 min Scan# 2282
Delta R.T. 0.01 min
Lab File: VL037015.D
Acq: 20 May 2021 6:14

Tgt Ion	Ion	Ratio	Lower	Upper
43	100			
58	92.1	41.1	61.7#	
98	0.0	0.1	0.1#	





#53

Toluene

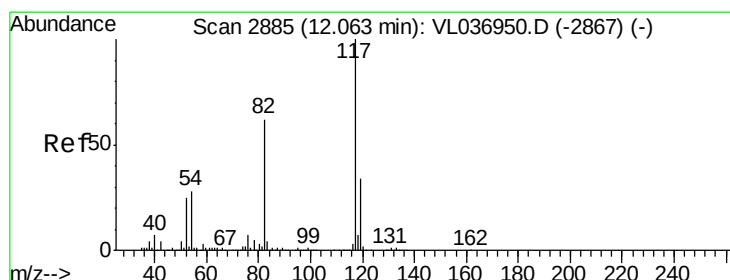
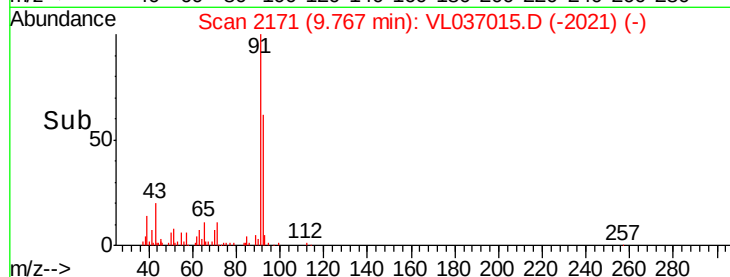
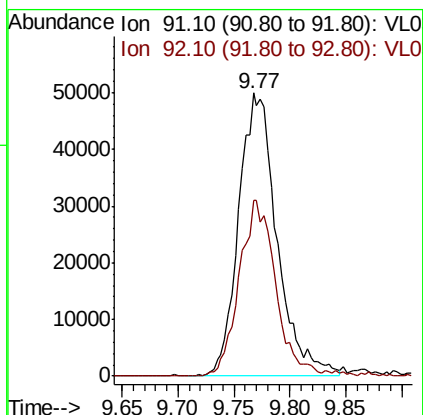
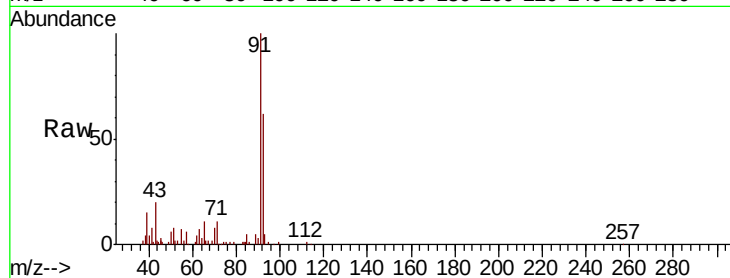
Concen: 0.413 ppbv m
RT: 9.77 min Scan# 2171
Delta R.T. -0.02 min
Lab File: VL037015.D
Acq: 20 May 2021 6:14

Instrument :
MSVOA_L
ClientSampled :
KSV-10

Tot Ion	Ratio	Lower	Upper
91	100		
92	0.0	49.5	74.3#

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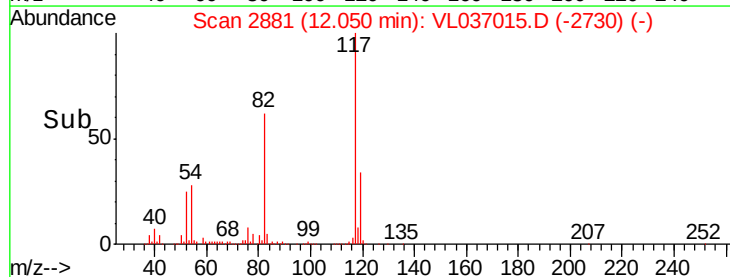
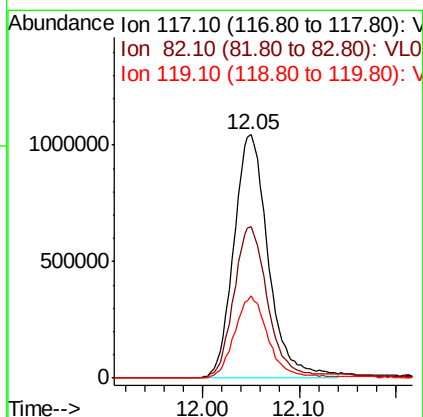
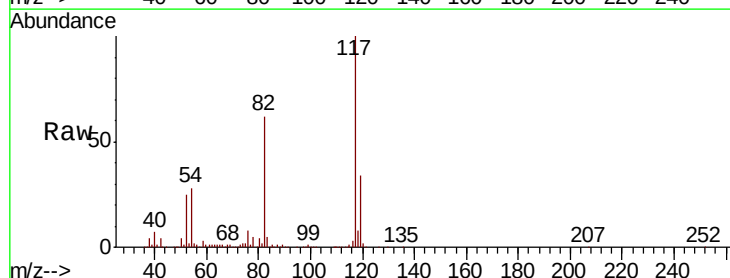


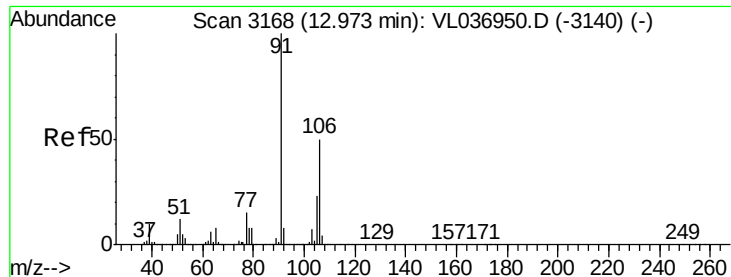
#55

Chlorobenzene-d5

Concen: 10.000 ppbv
RT: 12.05 min Scan# 2881
Delta R.T. -0.01 min
Lab File: VL037015.D
Acq: 20 May 2021 6:14

Tgt Ion	Ratio	Lower	Upper
117	100		
82	64.4	52.6	79.0
119	33.7	46.6	70.0#





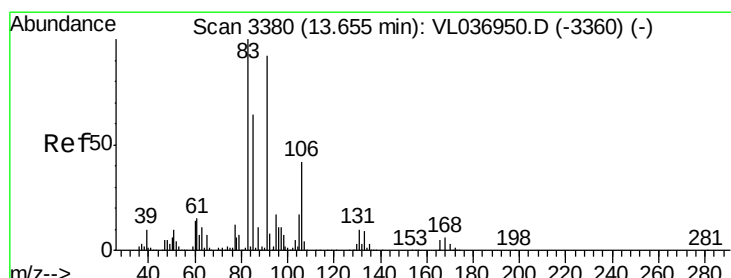
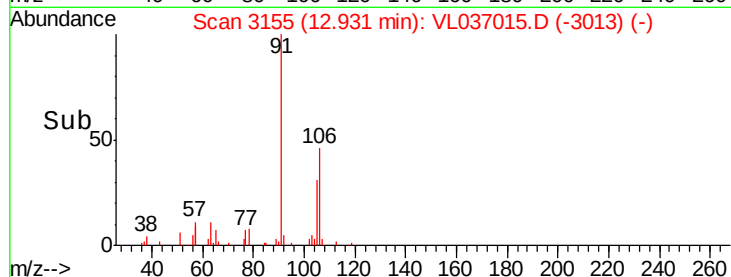
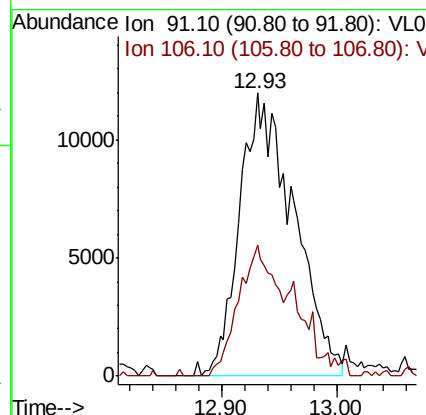
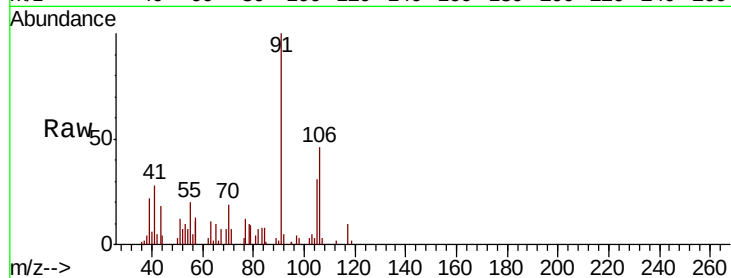
#59
m/p-Xylene
Concen: 0.129 ppbv m
RT: 12.93 min Scan# 3155
Delta R.T. -0.04 min
Lab File: VL037015.D
Acq: 20 May 2021 6:14

Instrument :
MSVOA_L
ClientSampled :
KSV-10

Tot Ion: 91 Resp: 39110
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2#

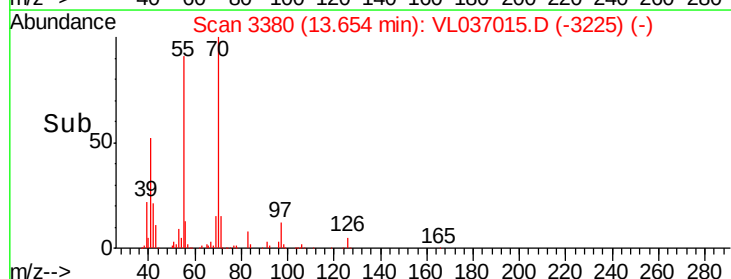
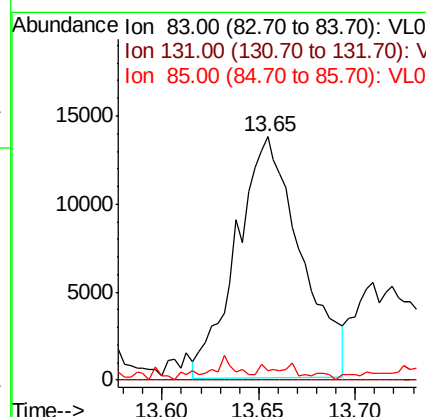
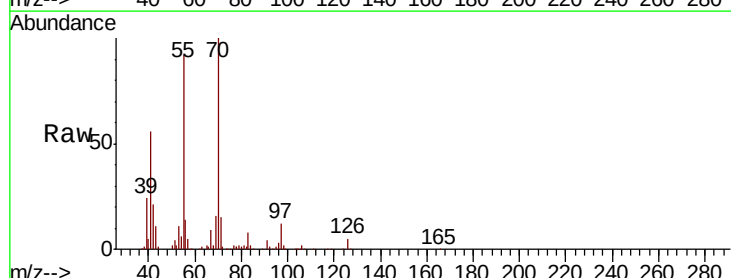
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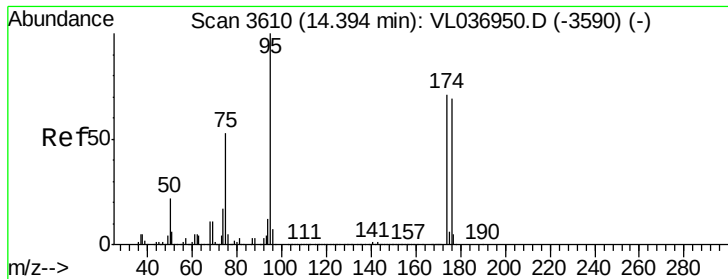
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#63
1,1,2,2-Tetrachloroethane
Concen: 0.147 ppbv
RT: 13.65 min Scan# 3380
Delta R.T. -0.00 min
Lab File: VL037015.D
Acq: 20 May 2021 6:14

Tgt Ion: 83 Resp: 31645
Ion Ratio Lower Upper
83 100
131 0.0 5.0 15.0#
85 0.0 32.9 98.6#





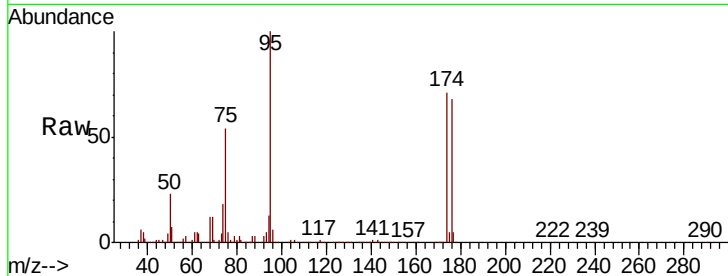
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.262 ppbv
 RT: 14.38 min Scan# 3605
 Delta R.T. -0.02 min
 Lab File: VL037015.D
 Acq: 20 May 2021 6:14

Instrument :
 MSVOA_L
 ClientSampled :
 KSV-10

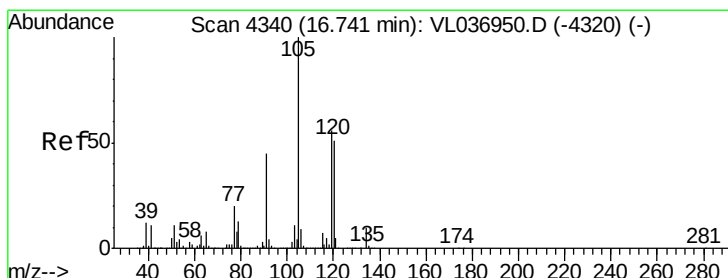
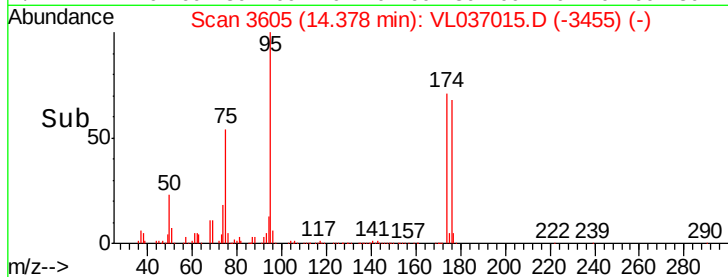
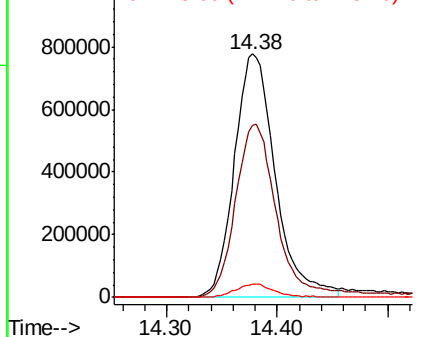
Tot Ion: 95 Resp: 1998307
 Ion Ratio Lower Upper
 95 100
 174 74.8 58.4 87.6
 175 5.4 4.4 6.6

Manual Integrations
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Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V



#74
 1,2,4-Trimethylbenzene
 Concen: 0.158 ppbv m
 RT: 16.73 min Scan# 4337
 Delta R.T. -0.01 min
 Lab File: VL037015.D
 Acq: 20 May 2021 6:14

Tgt Ion: 105 Resp: 52625
 Ion Ratio Lower Upper
 105 100
 120 40.3 40.6 61.0#
 91 9.5 37.4 56.0#
 77 18.6 16.2 24.4

Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0

