

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060221\
 Data File : VL037114.D
 Acq On : 2 Jun 2021 23:34
 Operator : SY/AP
 Sample : M2548-14
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SGS-5A

Manual Integrations
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Quant Time: Jun 06 20:23:41 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
 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	1385571	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3996344	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3614296	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2695800	9.93	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	65605	0.279	ppbv	98
4) Chloromethane	3.13	50	27899m	0.323	ppbv	
9) Propene	3.01	41	104159	1.146	ppbv #	73
10) Heptane	8.11	43	59884m	0.264	ppbv	
11) Trichlorofluoromethane	3.94	101	133723	0.615	ppbv	96
13) Ethanol	3.60	45	2048273	168.892	ppbv	92
15) Acetone	3.83	43	3765462	26.532	ppbv	98
17) tert-Butyl alcohol	4.30	59	78709m	0.605	ppbv	
19) Isopropyl Alcohol	3.97	45	166970	2.189	ppbv #	1
20) Methylene Chloride	4.33	84	1733676	22.789	ppbv	98
26) Hexane	5.67	57	1272477	7.304	ppbv #	46
34) 2-Butanone	5.23	43	414309	2.847	ppbv	94
35) Carbon Tetrachloride	7.00	117	15106m	0.057	ppbv	
36) Benzene	6.88	78	65835m	0.191	ppbv	
40) 1,4-Dioxane	7.84	88	33022m	1.055	ppbv	
50) 4-Methyl-2-Pentanone	8.74	43	56140m	0.234	ppbv	
52) Tetrachloroethene	11.21	164	4829m	0.035	ppbv	
53) Toluene	9.79	91	325818	0.795	ppbv	97
59) m/p-Xylene	12.95	91	66880m	0.159	ppbv	
61) Styrene	13.52	104	28856m	0.127	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	56247m	0.121	ppbv	

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

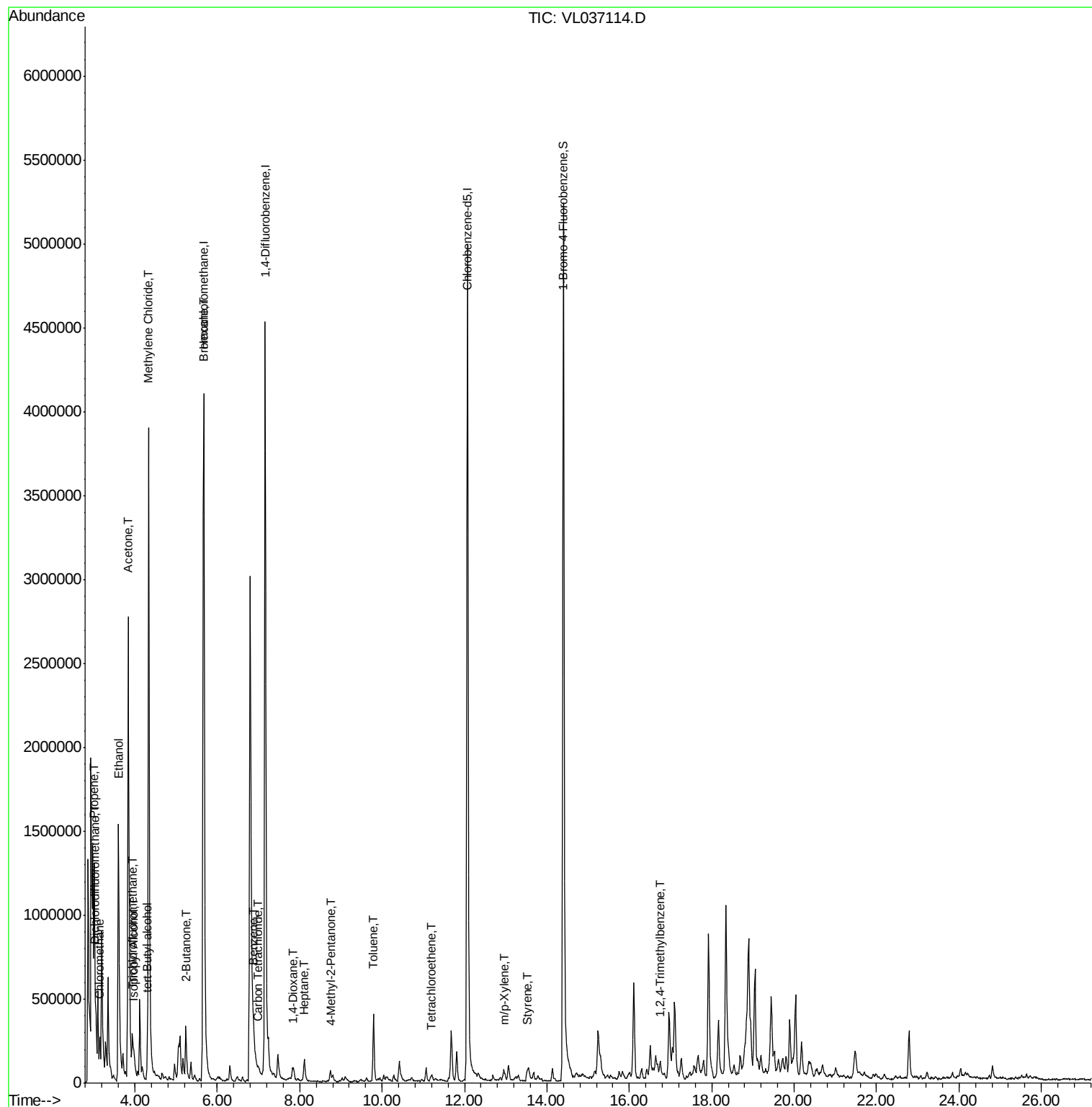
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL060221\
Data File : VL037114.D
Acq On : 2 Jun 2021 23:34
Operator : SY/AP
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Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

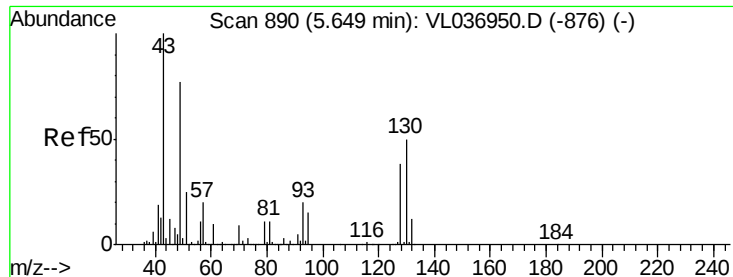
Instrument :
MSVOA_L
ClientSampleId :
SGS-5A

Manual Integrations
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6/7/2021 3:01:19 PM

Quant Time: Jun 06 20:23:41 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

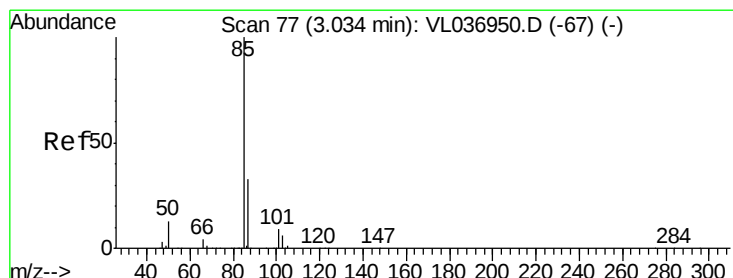
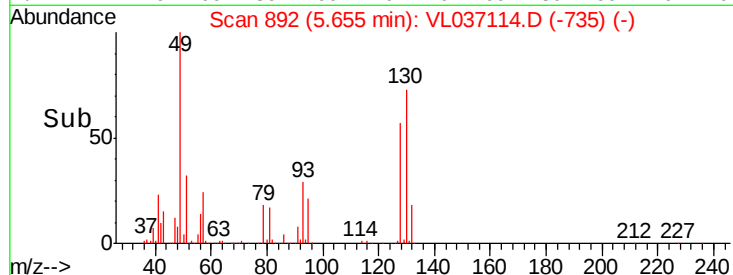
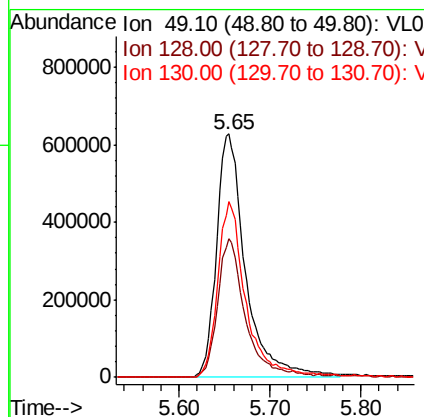
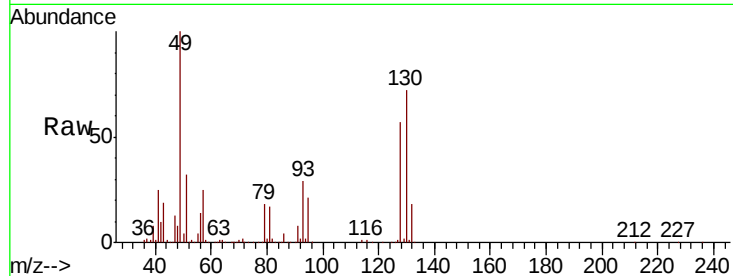
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 892
 Delta R.T. 0.01 min
 Lab File: VL037114.D
 Acq: 2 Jun 2021 23:34

Instrument :
 MSVOA_L
 ClientSampleId :
 SGS-5A

Tot Ion: 49 Resp: 1385571
 Ion Ratio Lower Upper
 49 100
 128 55.7 26.9 80.7
 130 71.2 33.8 101.4

Manual Integrations
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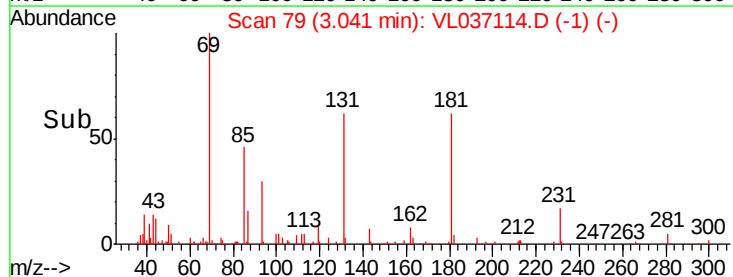
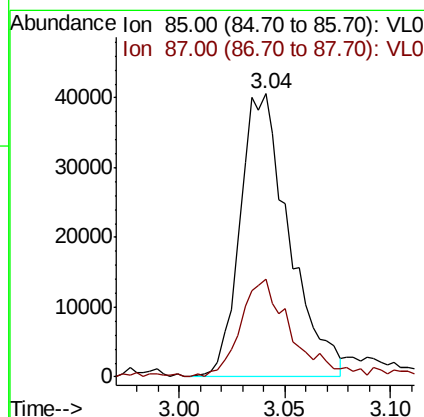
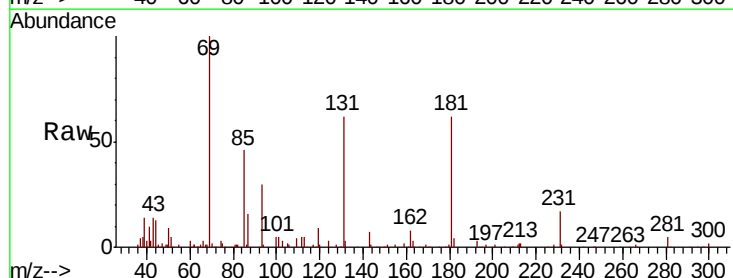
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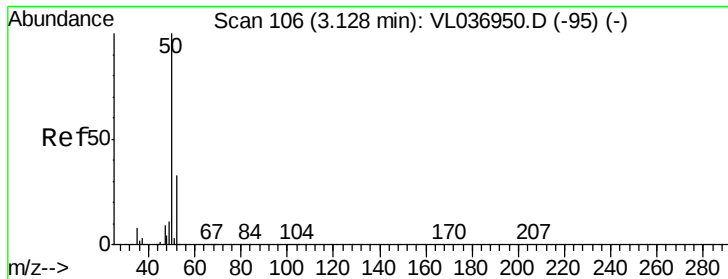


#2

Dichlorodifluoromethane
 Concen: 0.279 ppbv
 RT: 3.04 min Scan# 79
 Delta R.T. 0.01 min
 Lab File: VL037114.D
 Acq: 2 Jun 2021 23:34

Tgt Ion: 85 Resp: 65605
 Ion Ratio Lower Upper
 85 100
 87 34.5 26.6 39.8





#4

Chloromethane

Concen: 0.323 ppbv m

RT: 3.13 min Scan# 107

Delta R.T. 0.00 min

Lab File: VL037114.D

Acq: 2 Jun 2021 23:34

Instrument :

MSVOA_L

ClientSampleId :

SGS-5A

Tot Ion: 50 Resp: 27899

Ion Ratio Lower Upper

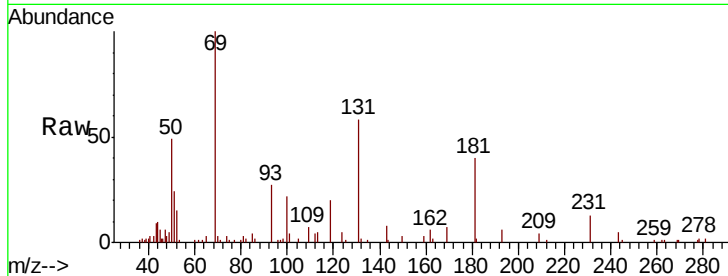
50 100

52 31.4 26.1 39.1

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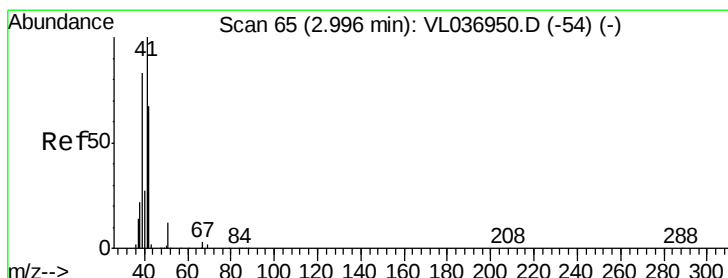
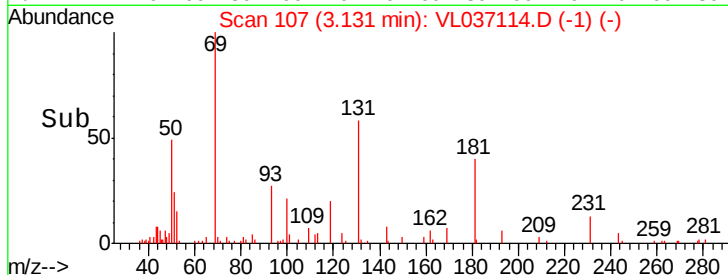
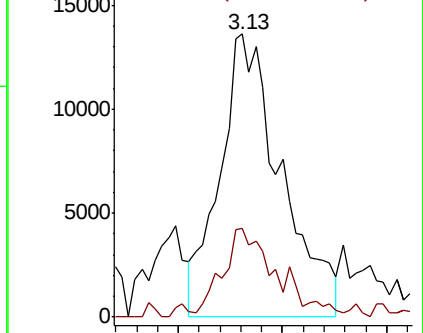
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Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 1.146 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.01 min

Lab File: VL037114.D

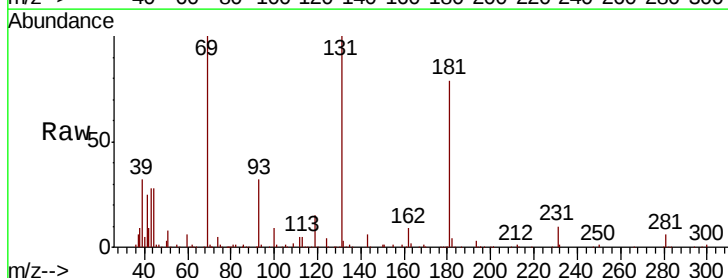
Acq: 2 Jun 2021 23:34

Tgt Ion: 41 Resp: 104159

Ion Ratio Lower Upper

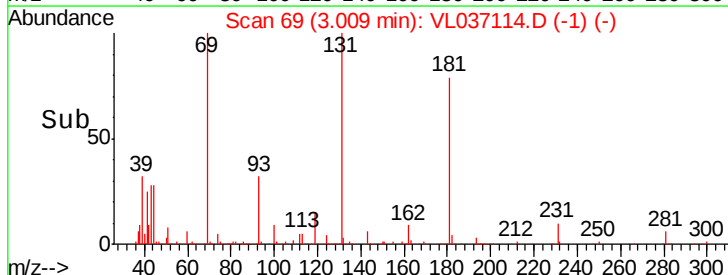
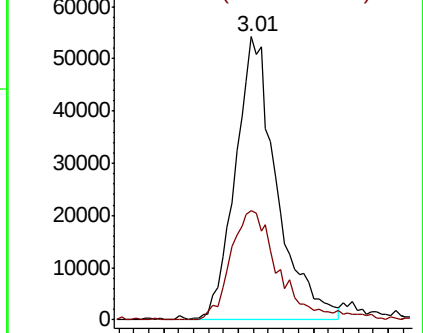
41 100

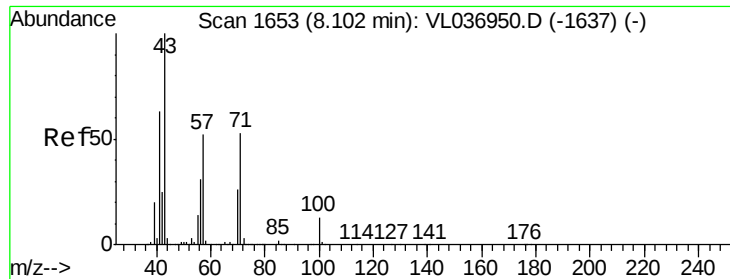
42 45.7 53.9 80.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.264 ppbv m

RT: 8.11 min Scan# 1656

Delta R.T. 0.01 min

Lab File: VL037114.D

Acq: 2 Jun 2021 23:34

Instrument :

MSVOA_L

ClientSampleId :

SGS-5A

Tot Ion: 43 Resp: 59884

Ion Ratio Lower Upper

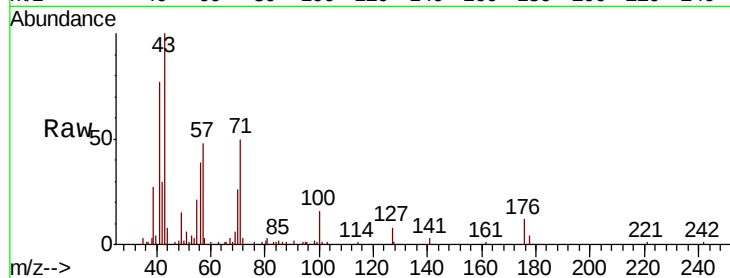
43 100

57 49.0 41.0 61.6

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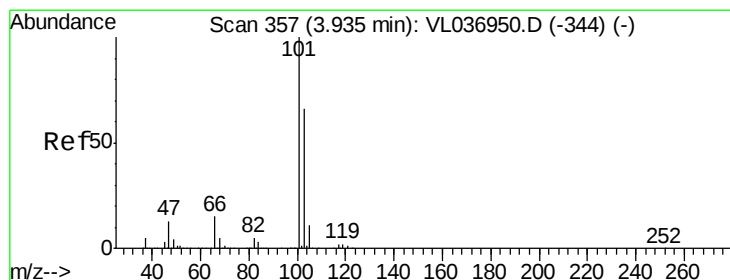
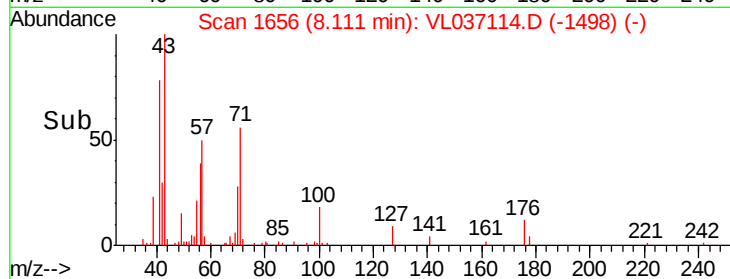
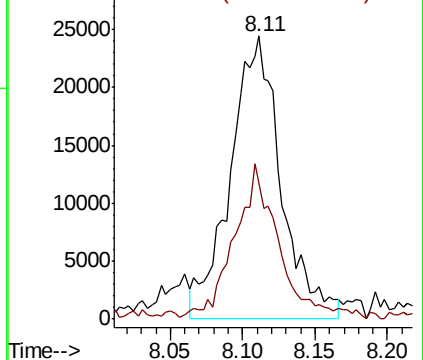
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.615 ppbv

RT: 3.94 min Scan# 359

Delta R.T. 0.01 min

Lab File: VL037114.D

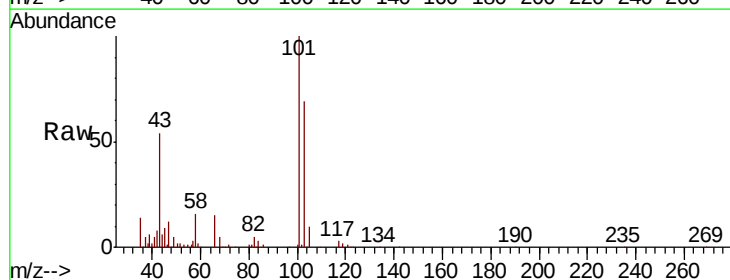
Acq: 2 Jun 2021 23:34

Tgt Ion: 101 Resp: 133723

Ion Ratio Lower Upper

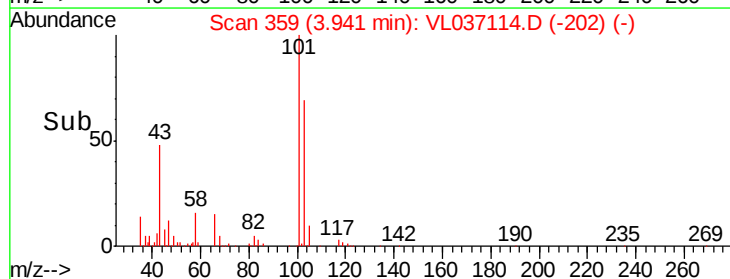
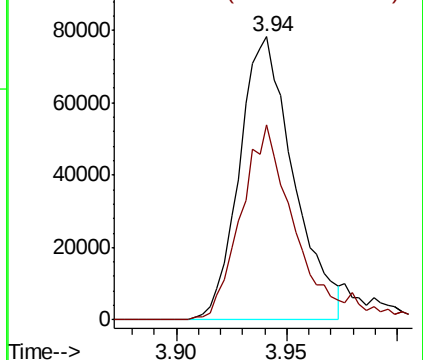
101 100

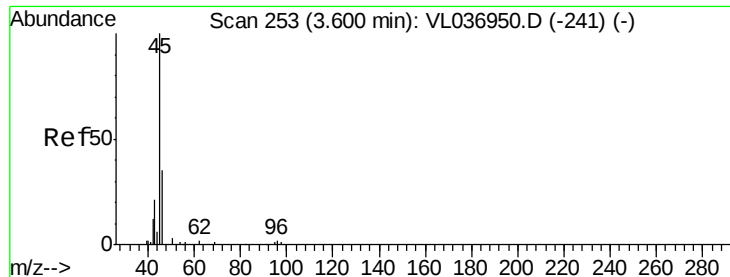
103 68.7 52.6 79.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





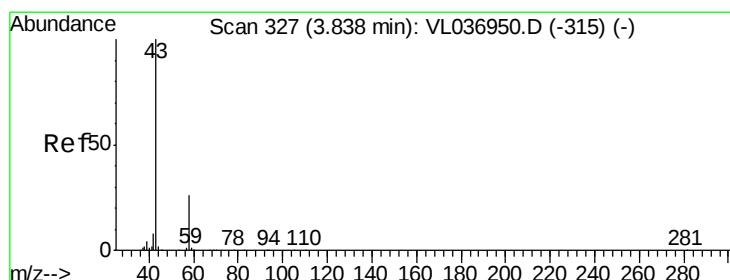
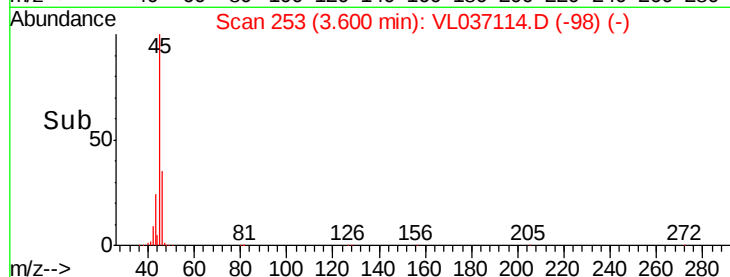
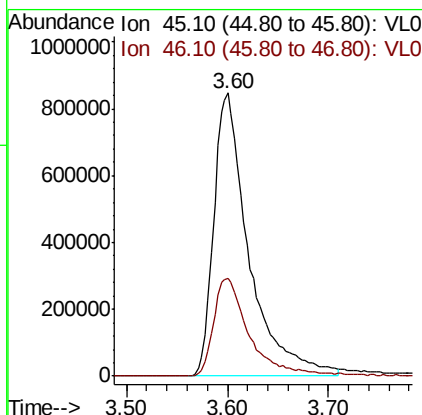
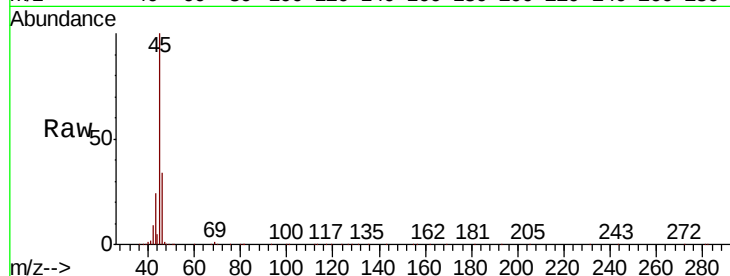
#13
Ethanol
Concen: 168.892 ppbv
RT: 3.60 min Scan# 253
Delta R.T. -0.00 min
Lab File: VL037114.D
Acq: 2 Jun 2021 23:34

Instrument :
MSVOA_L
ClientSampleId :
SGS-5A

Tot Ion: 45 Resp: 2048273
Ion Ratio Lower Upper
45 100
46 35.9 16.3 65.3

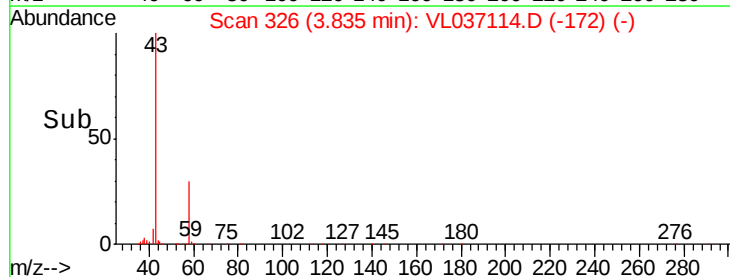
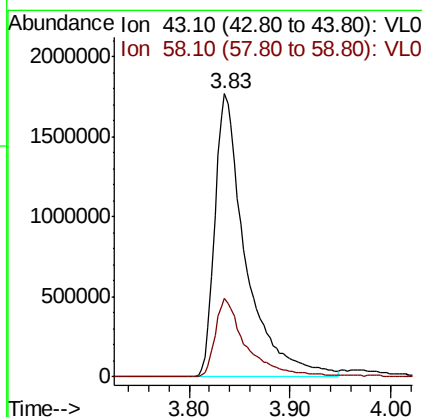
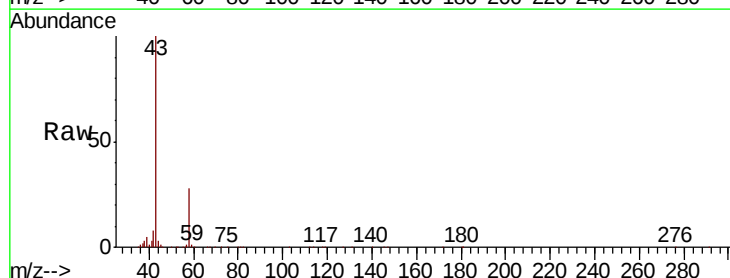
Manual Integrations
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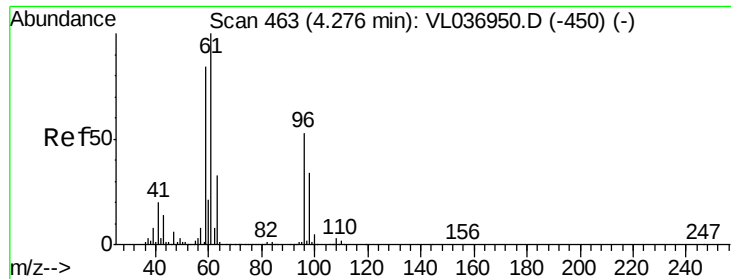
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#15
Acetone
Concen: 26.532 ppbv
RT: 3.83 min Scan# 326
Delta R.T. -0.00 min
Lab File: VL037114.D
Acq: 2 Jun 2021 23:34

Tgt Ion: 43 Resp: 3765462
Ion Ratio Lower Upper
43 100
58 29.1 24.0 36.0





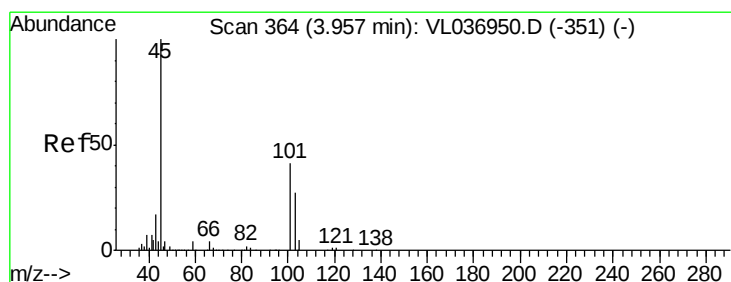
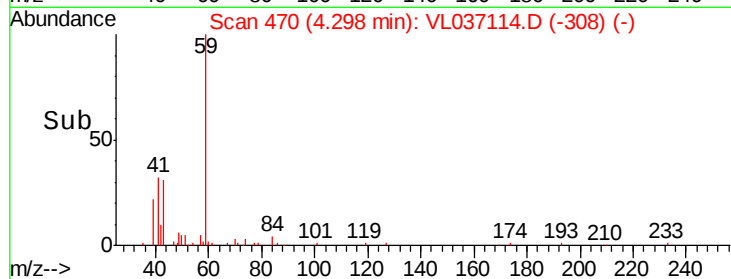
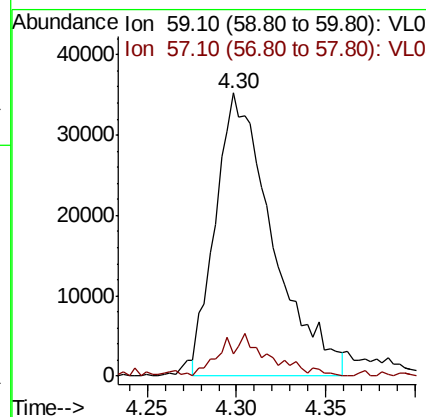
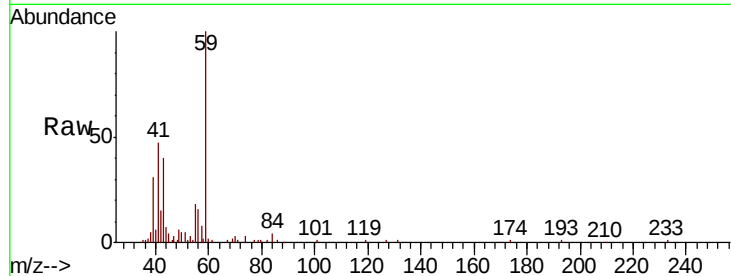
#17
tert-Butyl alcohol
Concen: 0.605 ppbv
RT: 4.30 min Scan# 470
Delta R.T. 0.02 min
Lab File: VL037114.D
Acq: 2 Jun 2021 23:34

Instrument :
MSVOA_L
ClientSampleId :
SGS-5A

Tot Ion: 59 Resp: 78709
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

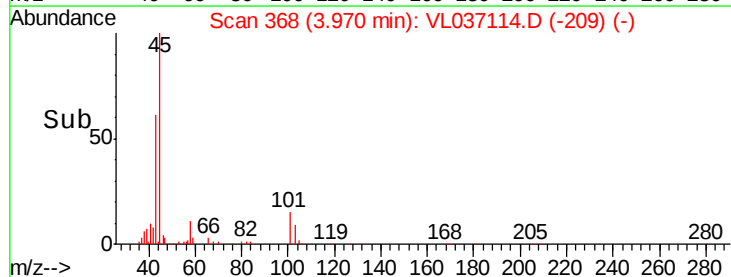
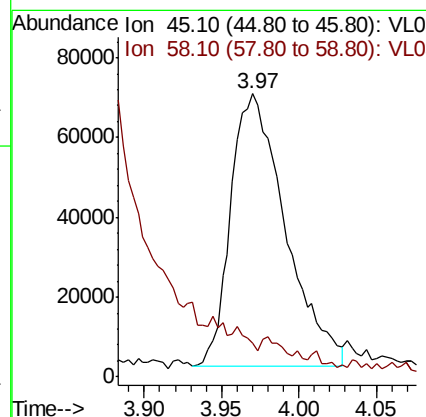
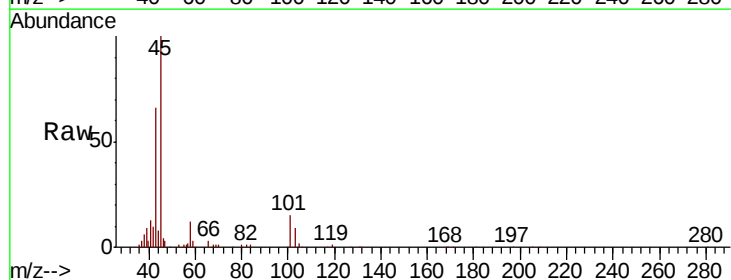
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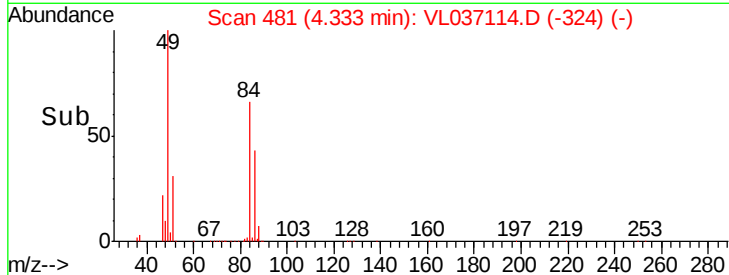
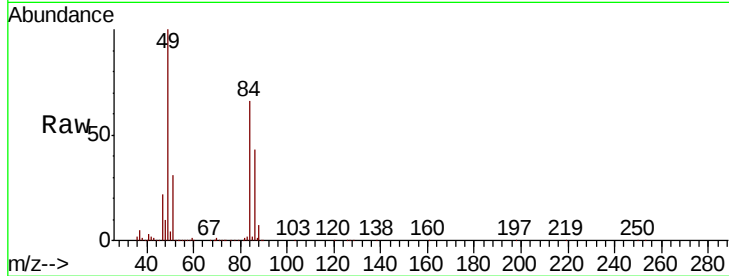
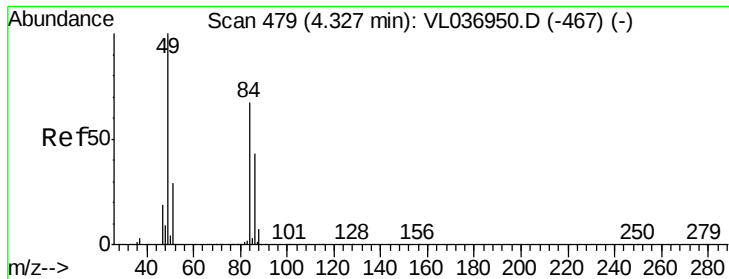
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#19
Isopropyl Alcohol
Concen: 2.189 ppbv
RT: 3.97 min Scan# 368
Delta R.T. 0.01 min
Lab File: VL037114.D
Acq: 2 Jun 2021 23:34

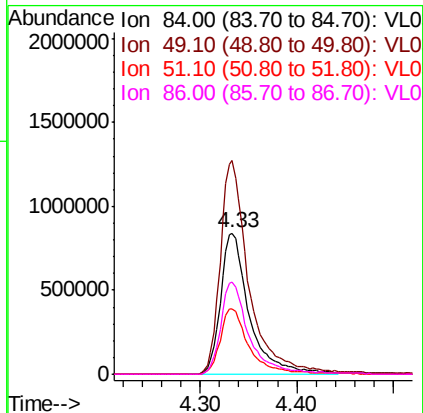
Tgt Ion: 45 Resp: 166970
Ion Ratio Lower Upper
45 100
58 652.9 37.2 55.8#





#20
Methvlene Chloride
Concen: 22.789 ppbv
RT: 4.33 min Scan# 481
Delta R.T. 0.01 min
Lab File: VL037114.D
Acq: 2 Jun 2021 23:34

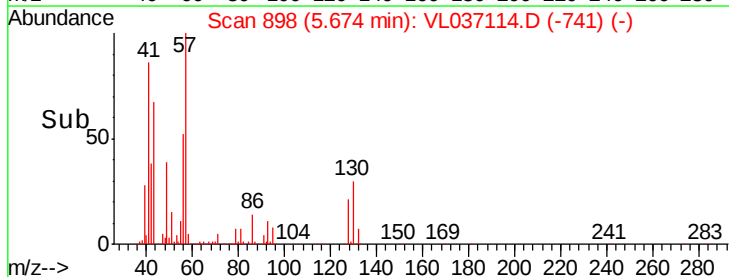
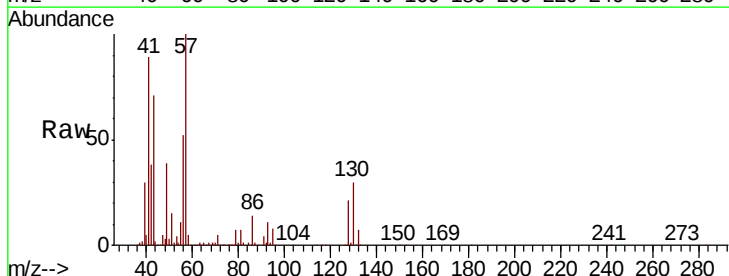
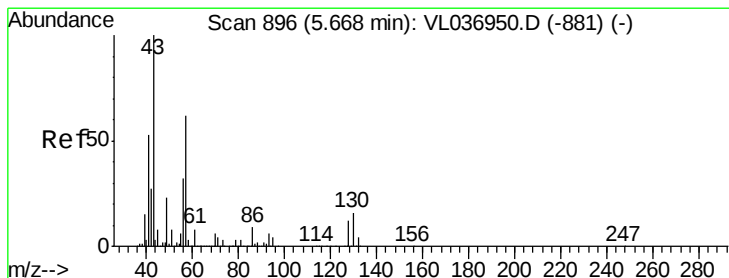
Tot Ion	Ratio	Lower	Upper
84	100		
49	151.3	119.8	179.6
51	46.1	35.1	52.7
86	65.7	50.9	76.3



Instrument :
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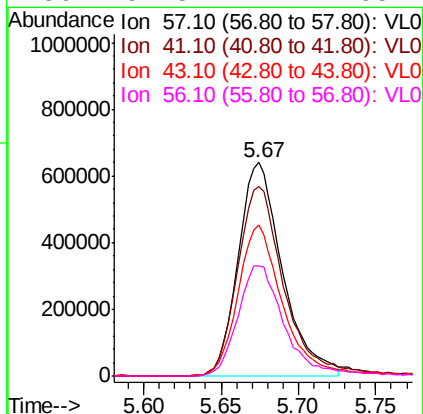
Manual Integrations
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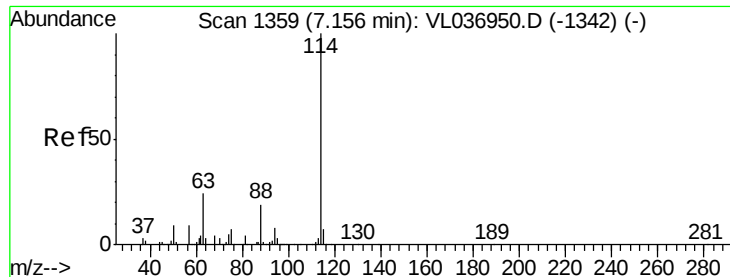
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#26
Hexane
Concen: 7.304 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.01 min
Lab File: VL037114.D
Acq: 2 Jun 2021 23:34

Tgt Ion	Ratio	Lower	Upper
57	100		
41	95.2	70.5	105.7
43	71.7	165.8	248.8#
56	54.8	42.2	63.4





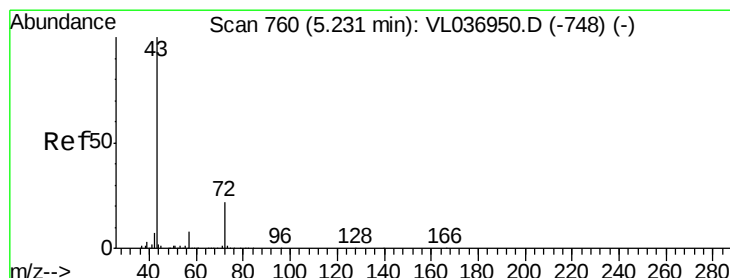
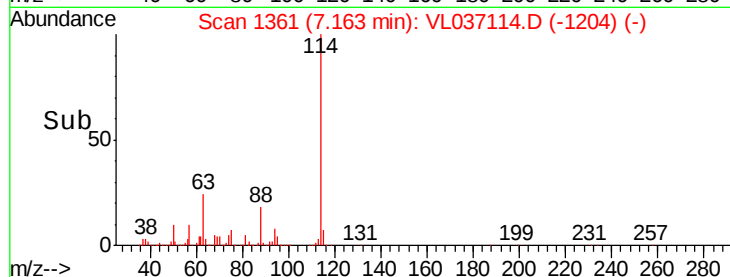
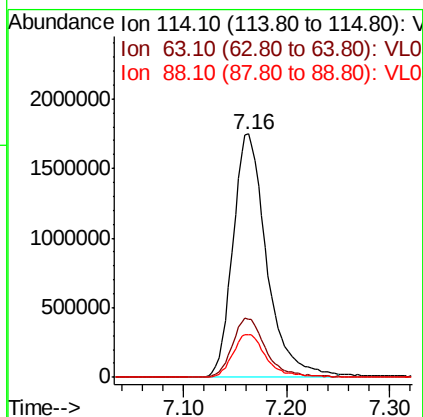
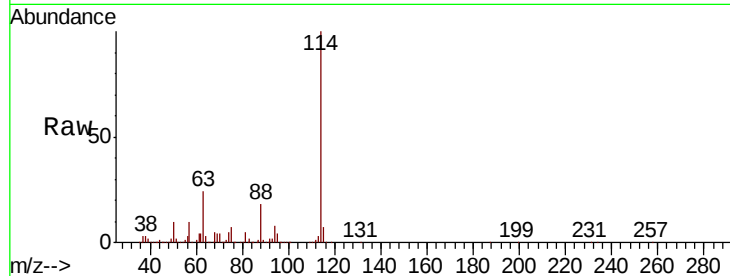
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. 0.01 min
 Lab File: VL037114.D
 Acq: 2 Jun 2021 23:34

Instrument :
 MSVOA_L
 ClientSampleId :
 SGS-5A

Tot Ion:114 Resp: 3996344
 Ion Ratio Lower Upper
 114 100
 63 24.6 19.6 29.4
 88 17.9 14.6 21.8

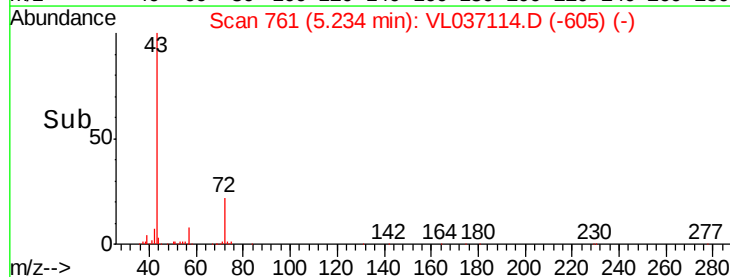
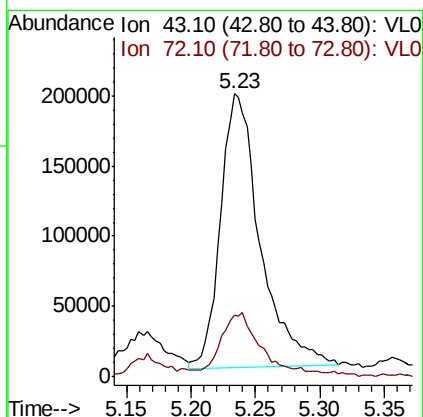
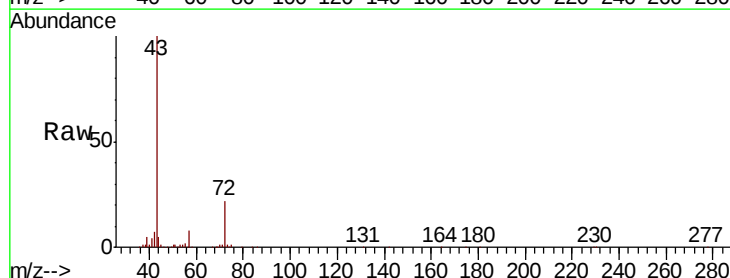
Manual Integrations
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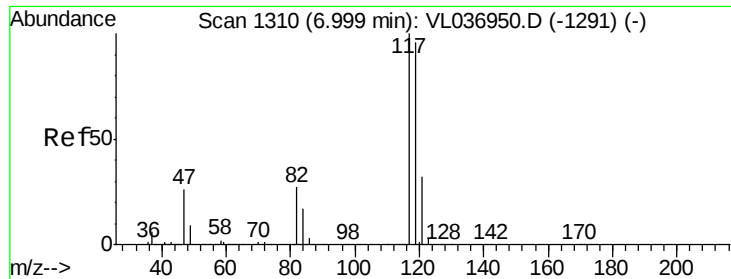
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#34
 2-Butanone
 Concen: 2.847 ppbv
 RT: 5.23 min Scan# 761
 Delta R.T. 0.00 min
 Lab File: VL037114.D
 Acq: 2 Jun 2021 23:34

Tgt Ion: 43 Resp: 414309
 Ion Ratio Lower Upper
 43 100
 72 26.7 19.0 28.4





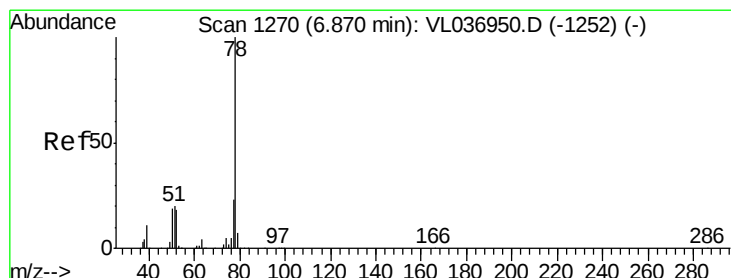
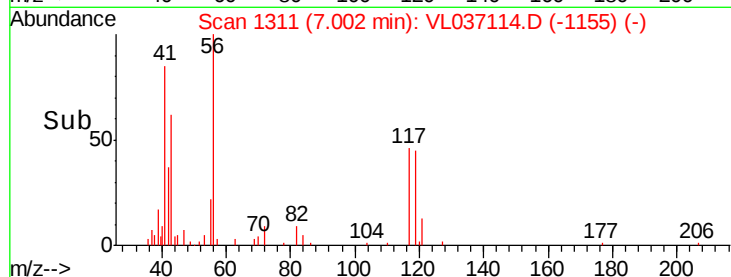
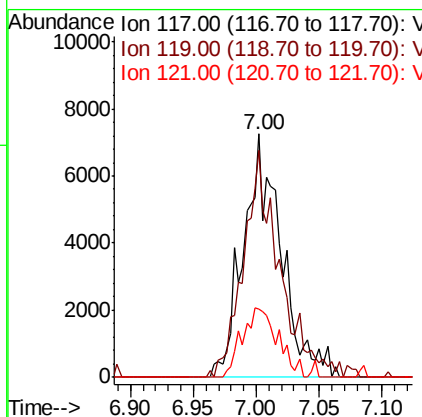
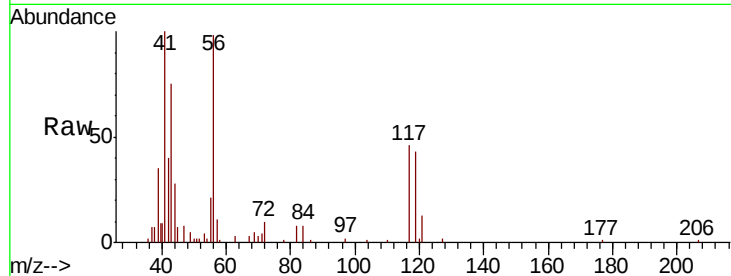
#35
Carbon Tetrachloride
Concen: 0.057 ppbv m
RT: 7.00 min Scan# 1311
Delta R.T. 0.00 min
Lab File: VL037114.D
Acq: 2 Jun 2021 23:34

Instrument :
MSVOA_L
ClientSampleId :
SGS-5A

Tot Ion	Ratio	Lower	Upper
117	100		
119	93.3	76.6	114.8
121	28.0	25.8	38.6

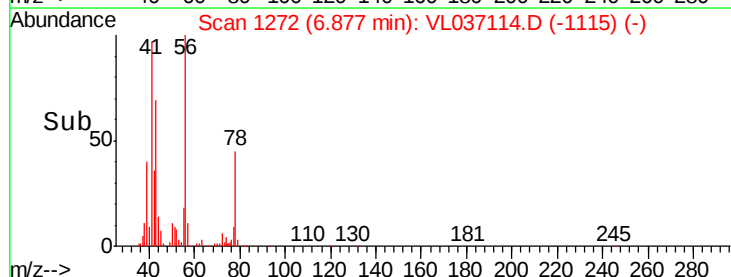
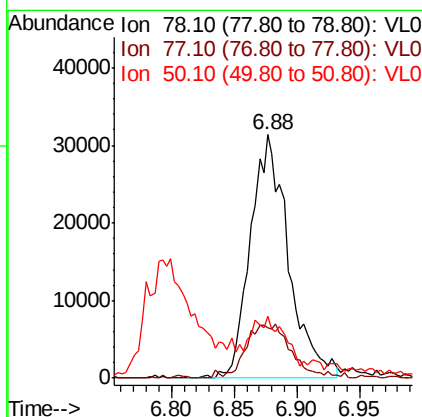
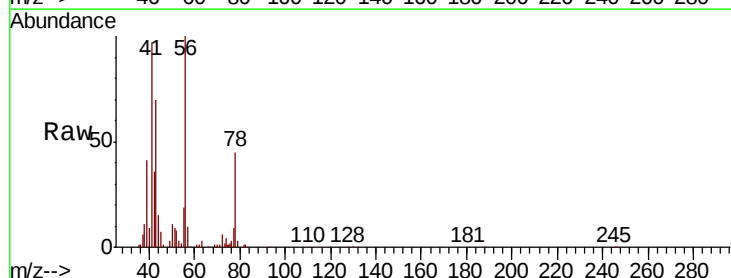
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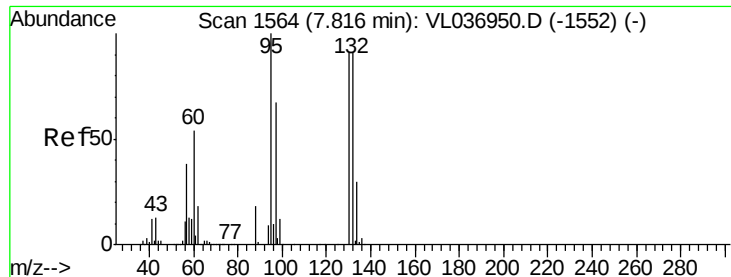
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#36
Benzene
Concen: 0.191 ppbv m
RT: 6.88 min Scan# 1272
Delta R.T. 0.01 min
Lab File: VL037114.D
Acq: 2 Jun 2021 23:34

Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.9	18.6	28.0
50	25.6	15.0	22.4#





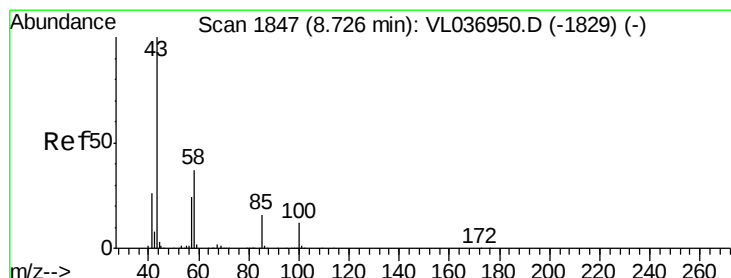
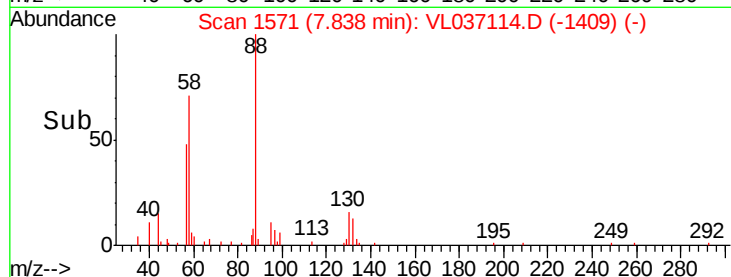
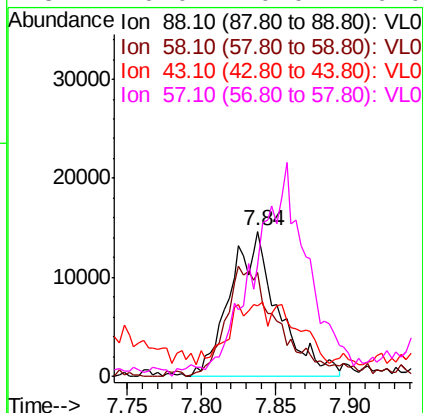
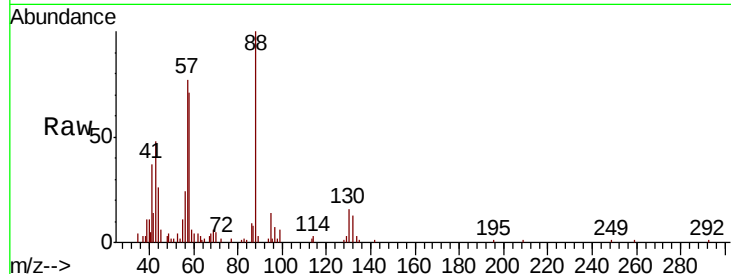
#40
 1,4-Dioxane
 Concen: 1.055 ppbv m
 RT: 7.84 min Scan# 1571
 Delta R.T. 0.02 min
 Lab File: VL037114.D
 Acq: 2 Jun 2021 23:34

Instrument :
 MSVOA_L
 ClientSampleId :
 SGS-5A

Tot Ion	Ratio	Lower	Upper
88	100		
58	89.5	0.0	0.0#
43	0.0	0.0	0.0
57	0.0	0.0	0.0

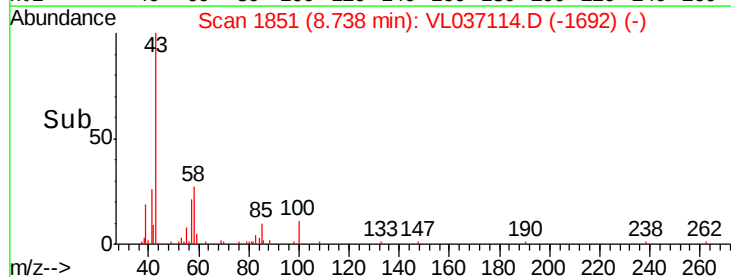
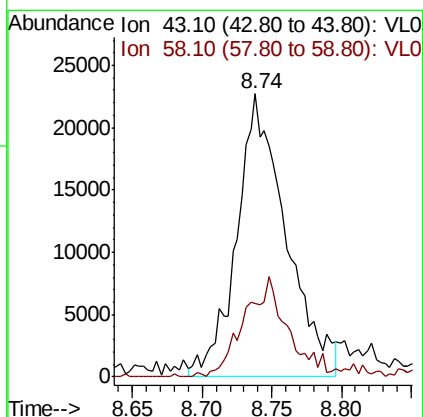
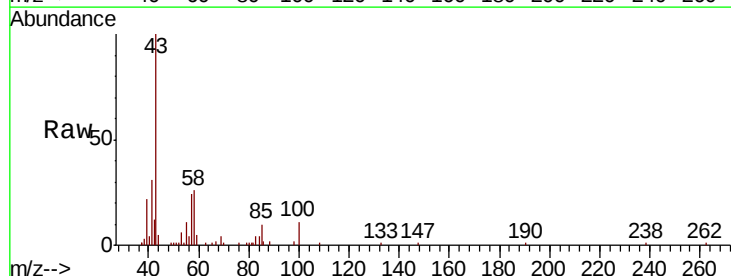
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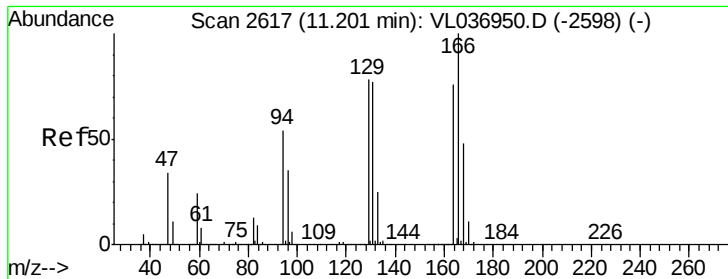
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#50
 4-Methyl-2-Pentanone
 Concen: 0.234 ppbv m
 RT: 8.74 min Scan# 1851
 Delta R.T. 0.01 min
 Lab File: VL037114.D
 Acq: 2 Jun 2021 23:34

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.4	44.2#





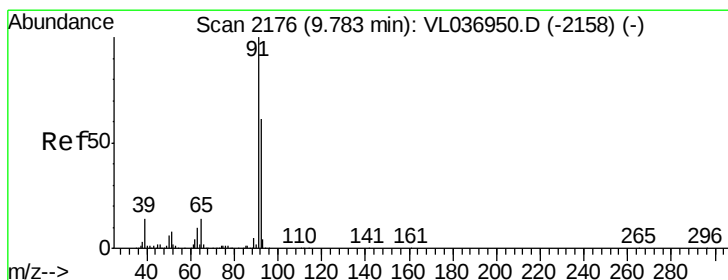
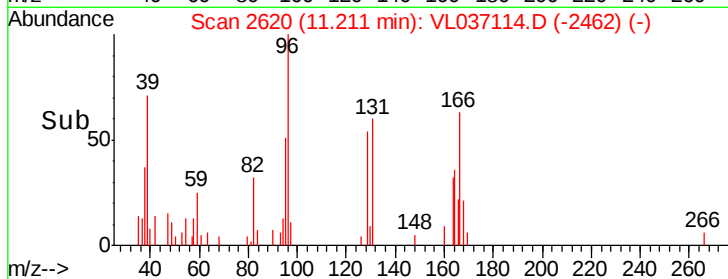
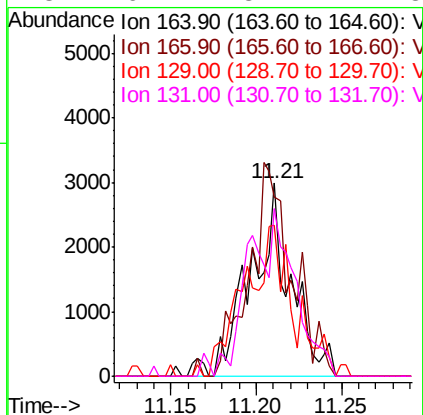
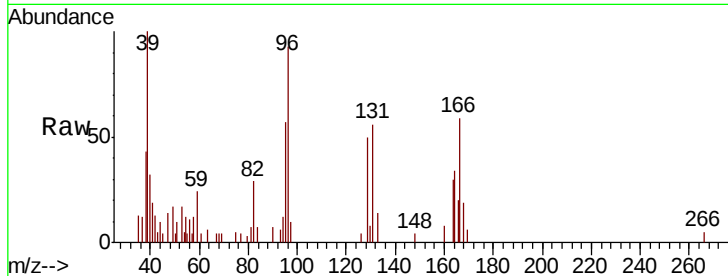
#52
Tetrachloroethene
Concen: 0.035 ppbv m
RT: 11.21 min Scan# 2620
Delta R.T. 0.01 min
Lab File: VL037114.D
Acq: 2 Jun 2021 23:34

Instrument :
MSVOA_L
ClientSampled :
SGS-5A

Tot Ion	Ratio	Lower	Upper
164	100		
166	174.2	105.5	158.3#
129	147.4	81.8	122.8#
131	164.1	81.2	121.8#

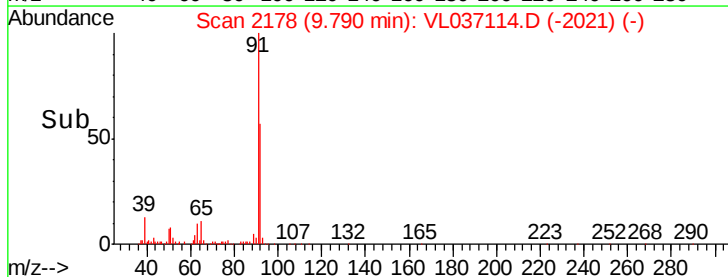
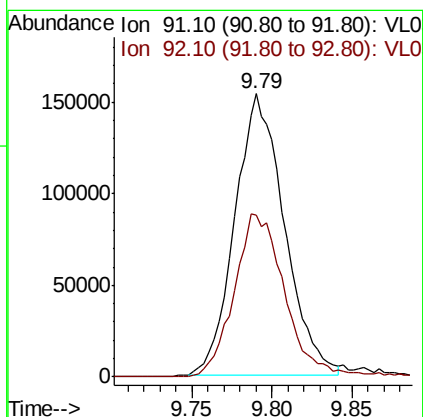
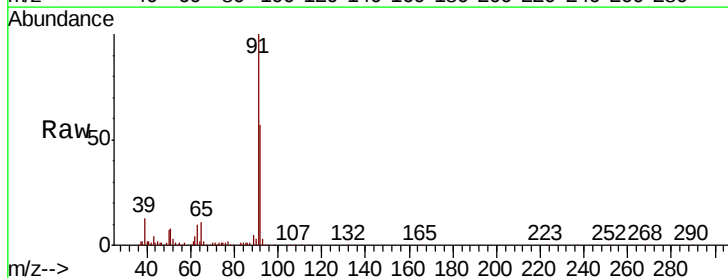
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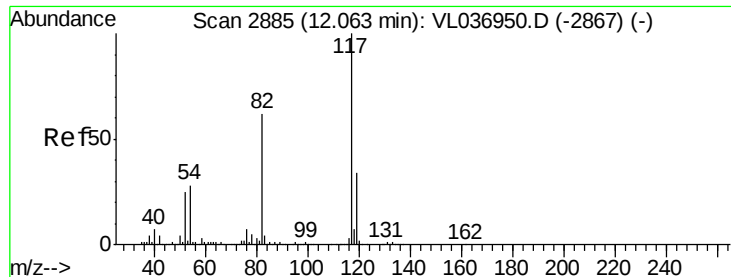
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#53
Toluene
Concen: 0.795 ppbv
RT: 9.79 min Scan# 2178
Delta R.T. 0.01 min
Lab File: VL037114.D
Acq: 2 Jun 2021 23:34

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.5	49.5	74.3





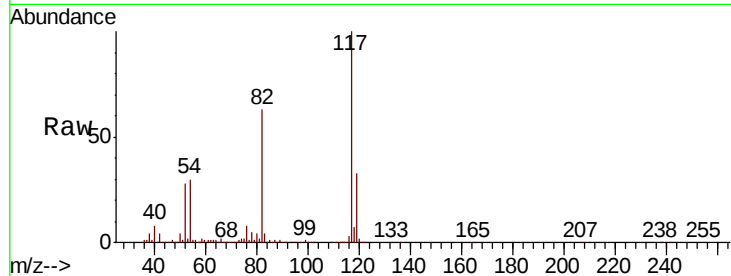
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2887
Delta R.T. 0.01 min
Lab File: VL037114.D
Acq: 2 Jun 2021 23:34

Instrument :
MSVOA_L
ClientSampleId :
SGS-5A

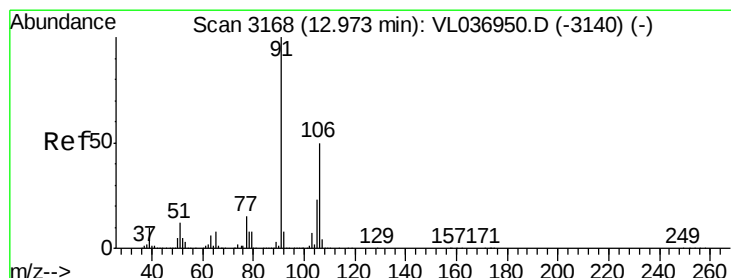
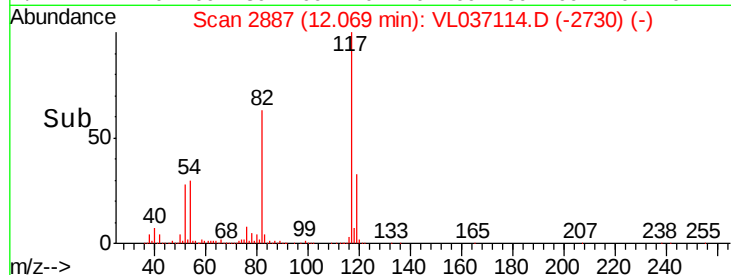
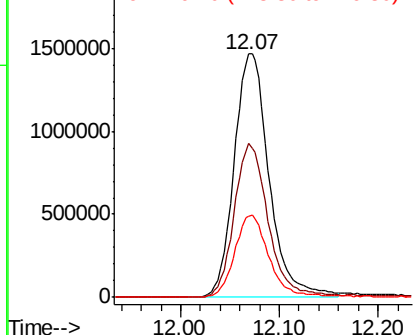
Tot Ion	Ratio	Lower	Upper
117	100		
82	63.8	52.6	79.0
119	33.8	46.6	70.0#

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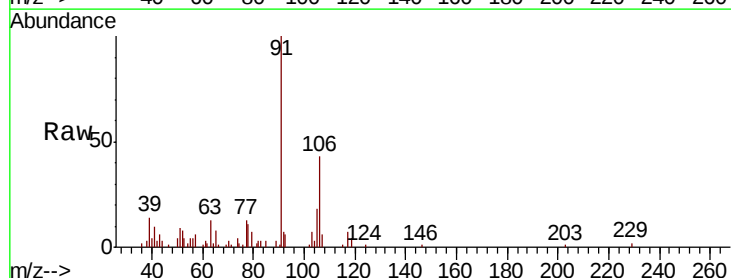


Abundance Ion 117.10 (116.80 to 117.80): V
2000000
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

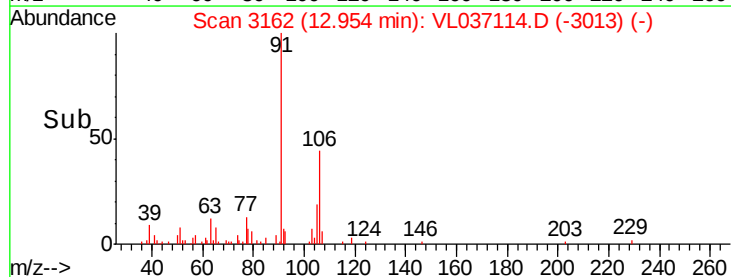
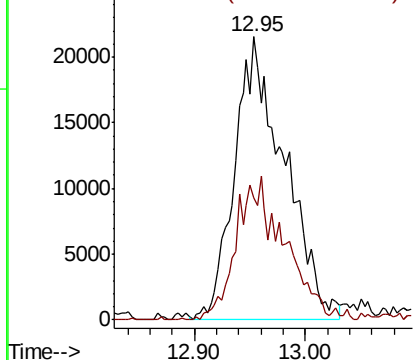


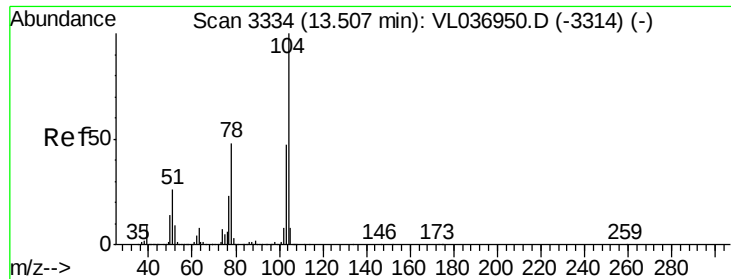
#59
m/p-Xylene
Concen: 0.159 ppbv m
RT: 12.95 min Scan# 3162
Delta R.T. -0.02 min
Lab File: VL037114.D
Acq: 2 Jun 2021 23:34

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.4	56.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0
25000
Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 0.127 ppbv m

RT: 13.52 min Scan# 3337

Delta R.T. 0.01 min

Lab File: VL037114.D

Acq: 2 Jun 2021 23:34

Instrument :

MSVOA_L

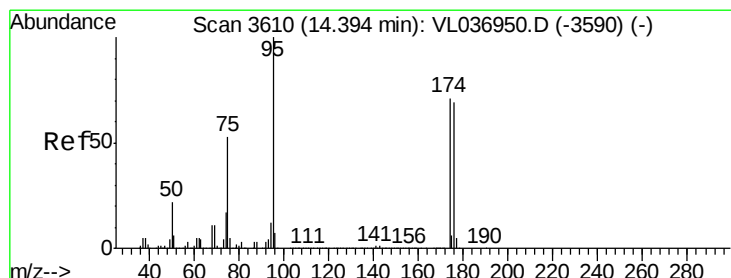
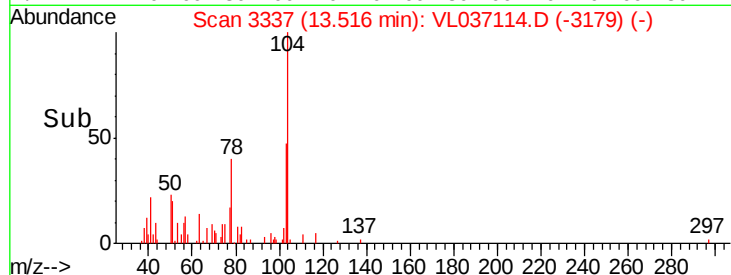
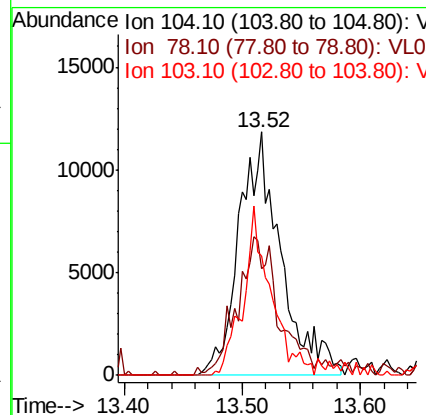
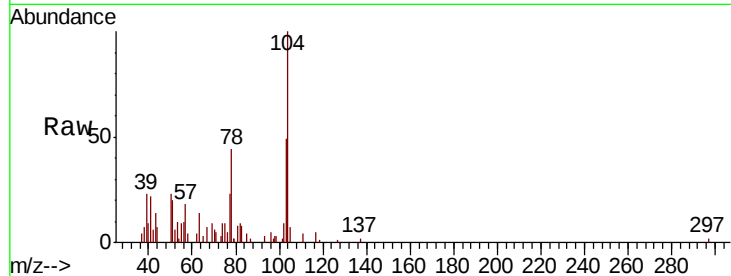
ClientSampleId :

SGS-5A

Tot Ion:	104	Resp:	28856
Ion Ratio	Lower	Upper	
104	100		
78	0.0	39.0	58.6#
103	0.0	38.0	57.0#

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.929 ppbv

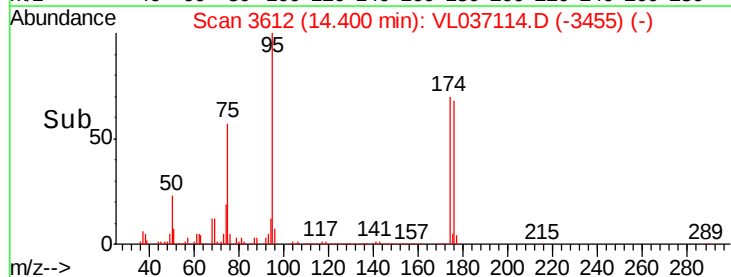
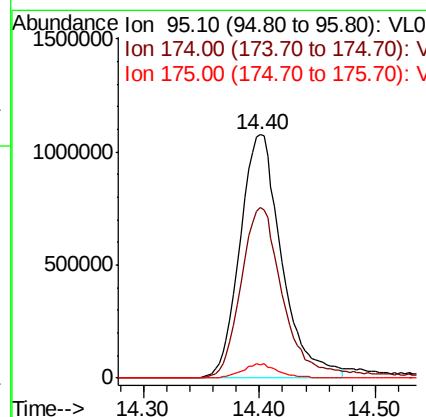
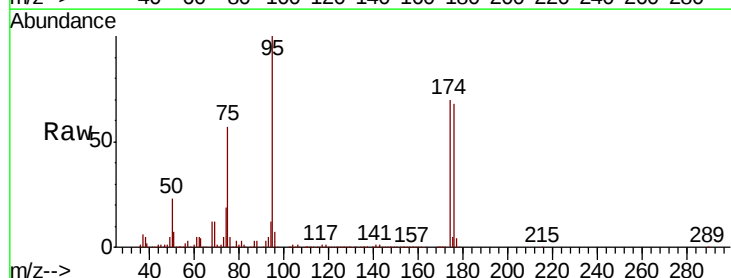
RT: 14.40 min Scan# 3612

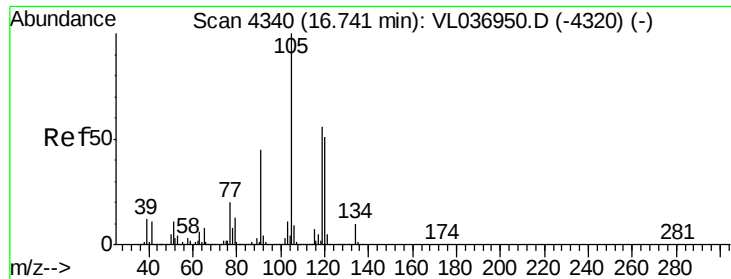
Delta R.T. 0.01 min

Lab File: VL037114.D

Acq: 2 Jun 2021 23:34

Tgt Ion:	95	Resp:	2695800
Ion Ratio	Lower	Upper	
95	100		
174	74.0	58.4	87.6
175	5.6	4.4	6.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.121 ppbv m
 RT: 16.74 min Scan# 4341
 Delta R.T. 0.00 min
 Lab File: VL037114.D
 Acq: 2 Jun 2021 23:34

Instrument :
 MSVOA_L
 ClientSampleId :
 SGS-5A

Tot Ion	Ratio	Resp	Lower	Upper
105	100	56247		
120	37.5		40.6	61.0#
91	8.1		37.4	56.0#
77	18.3		16.2	24.4

Manual Integrations
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