

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081921\
 Data File : VL037505.D
 Acq On : 19 Aug 2021 19:15
 Operator : SY/AP
 Sample : M3480-04
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-SG-6

Manual Integrations
 APPROVED

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 8/20/2021 6:31:16 PM

Quant Time: Aug 20 15:07:50 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Tue Aug 17 2021
 QLast Update : Tue Aug 17 02:13:47 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1410257	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.18	114	4063774	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	3351787	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2466062m	10.36	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	37439m	0.165	ppbv	
3) Chlorodifluoromethane	3.00	51	740399m	2.742	ppbv	
9) Propene	3.02	41	90997	0.942	ppbv	98
11) Trichlorofluoromethane	3.96	101	38710	0.182	ppbv	90
13) Ethanol	3.61	45	2112876	224.722	ppbv	97
15) Acetone	3.85	43	4392960	30.608	ppbv	97
17) tert-Butyl alcohol	4.31	59	144196m	1.100	ppbv	
19) Isopropyl Alcohol	3.98	45	406064	4.938	ppbv #	1
20) Methylene Chloride	4.35	84	952676	13.258	ppbv	93
26) Hexane	5.69	57	781756	4.388	ppbv #	49
29) Chloroform	5.76	83	24976m	0.099	ppbv	
34) 2-Butanone	5.25	43	223374	1.346	ppbv	98
35) Carbon Tetrachloride	7.03	117	15229m	0.063	ppbv	
36) Benzene	6.90	78	994673	2.912	ppbv	99
38) Trichloroethene	7.84	130	81342m	0.580	ppbv	
40) 1,4-Dioxane	7.86	88	18954m	0.589	ppbv	
50) 4-Methyl-2-Pentanone	8.76	43	38836m	0.179	ppbv	
52) Tetrachloroethene	11.22	164	12116m	0.087	ppbv	
53) Toluene	9.81	91	101160m	0.259	ppbv	
62) Isopropylbenzene	14.67	105	1578190	2.971	ppbv	99
79) Naphthalene	22.19	128	399160	1.347	ppbv	98

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

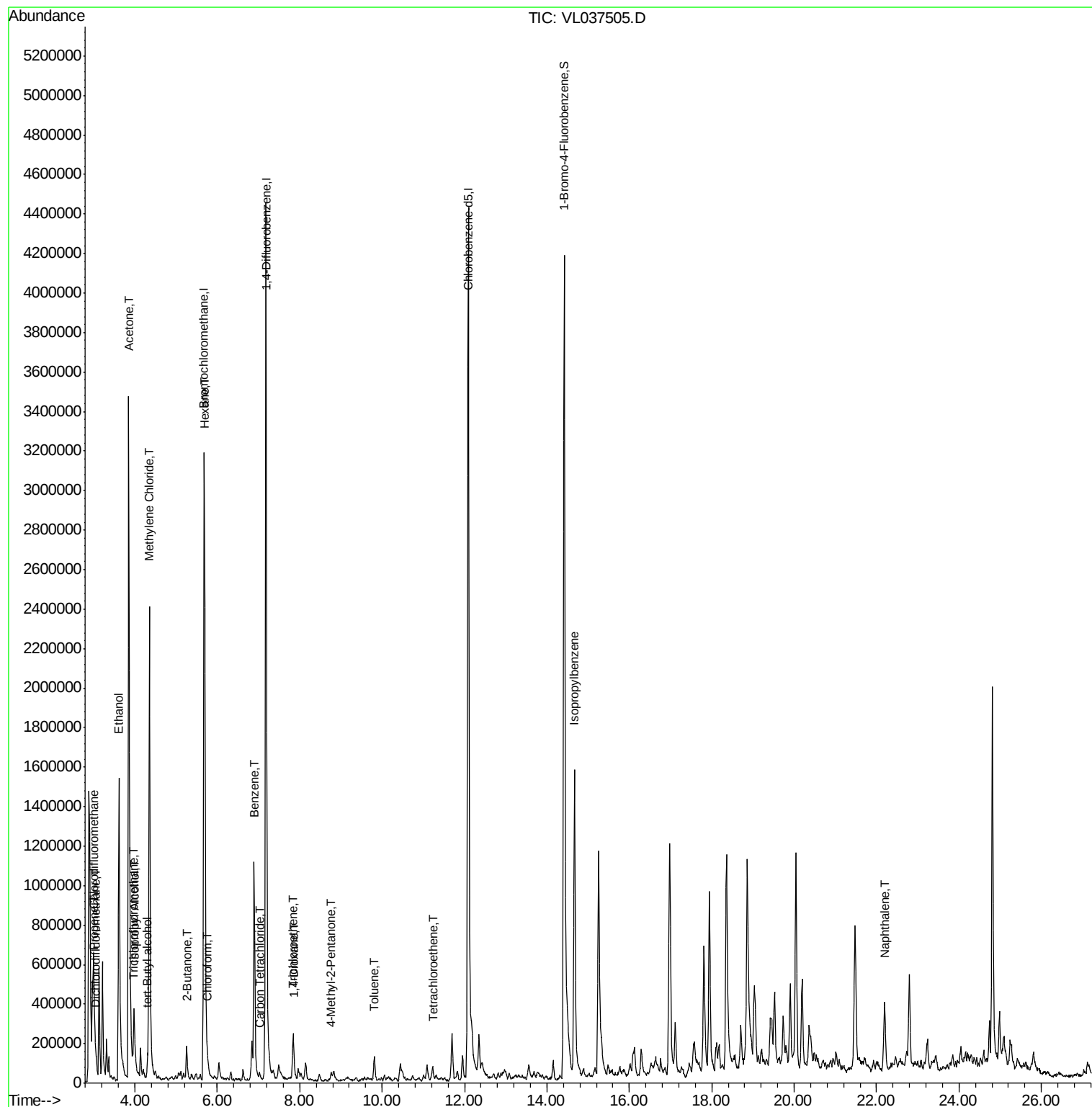
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081921\
Data File : VL037505.D
Acq On : 19 Aug 2021 19:15
Operator : SY/AP
Sample : M3480-04
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

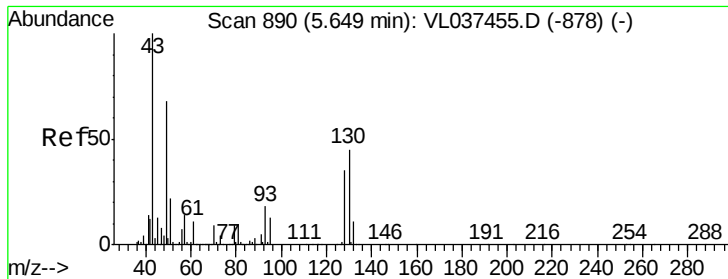
Instrument :
MSVOA_L
ClientSampleId :
SR-SG-6

Manual Integrations
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8/20/2021 6:31:16 PM

Quant Time: Aug 20 15:07:50 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug
QLast Update : Tue Aug 17 02:13:47 2021
Response via : Initial Calibration





#1

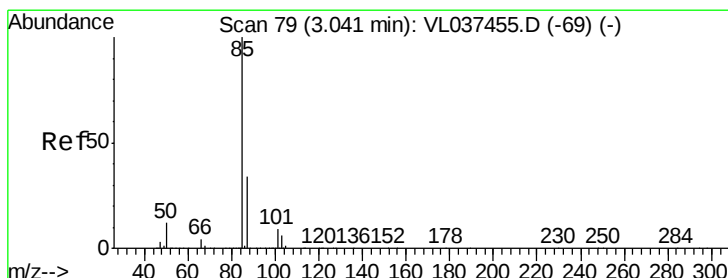
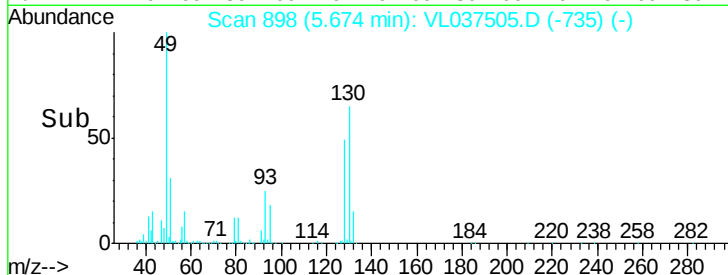
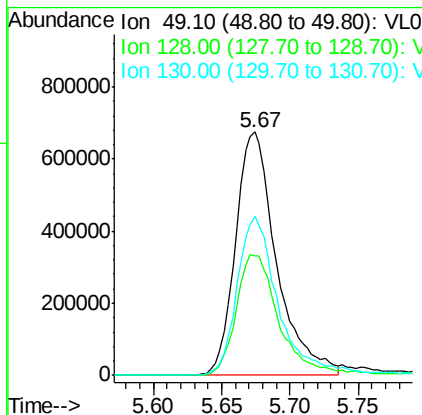
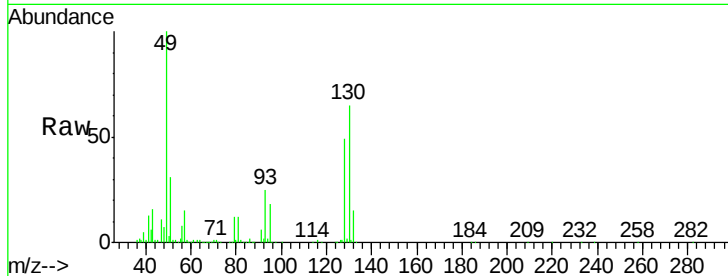
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.03 min
Lab File: VL037505.D
Acq: 19 Aug 2021 19:15

Instrument :
MSVOA_L
ClientSampleId :
SR-SG-6

Tot Ion: 49 Resp: 1410257
Ion Ratio Lower Upper
49 100
128 52.3 27.5 82.4
130 67.7 34.0 101.8

Manual Integrations
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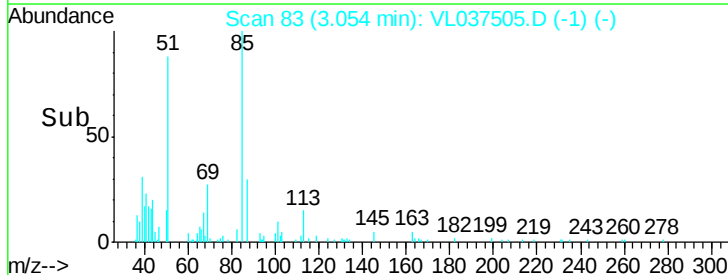
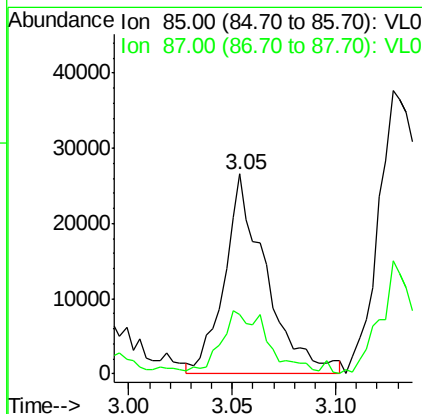
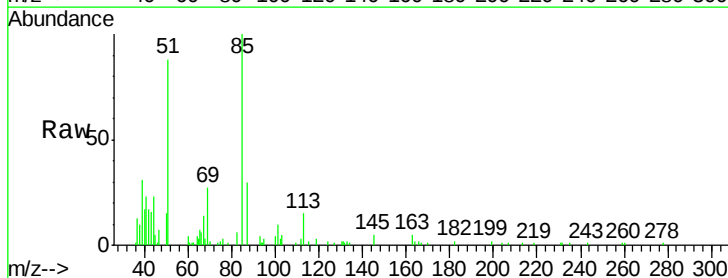
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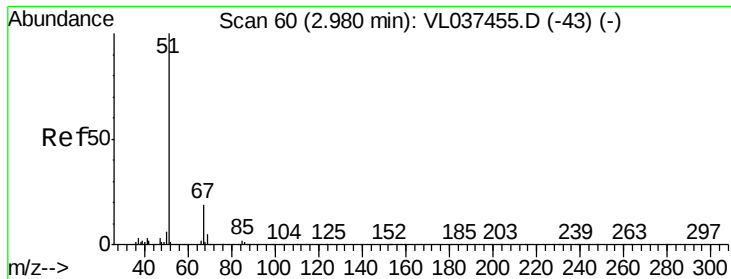


#2

Dichlorodifluoromethane
Concen: 0.165 ppbv m
RT: 3.05 min Scan# 83
Delta R.T. 0.01 min
Lab File: VL037505.D
Acq: 19 Aug 2021 19:15

Tgt Ion: 85 Resp: 37439
Ion Ratio Lower Upper
85 100
87 29.9 27.6 41.4





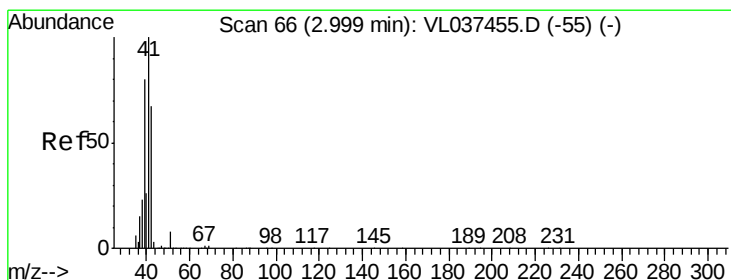
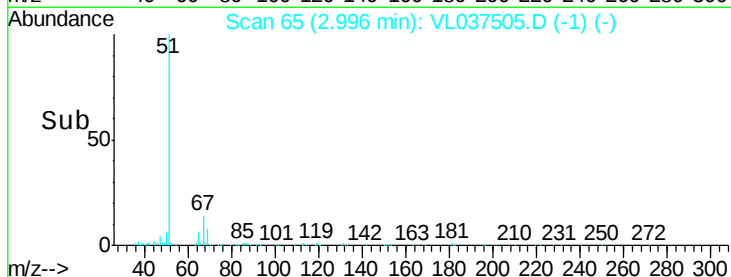
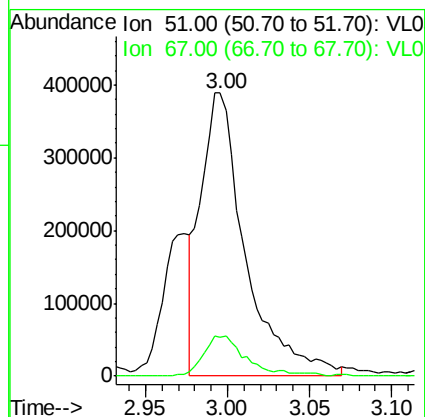
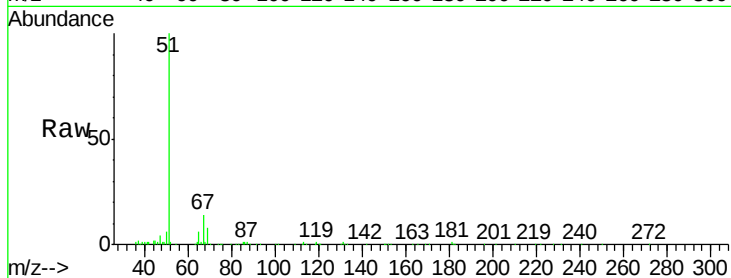
#3
Chlorodifluoromethane
Concen: 2.742 ppbv
RT: 3.00 min Scan# 65
Delta R.T. 0.02 min
Lab File: VL037505.D
Acq: 19 Aug 2021 19:15

Instrument :
MSVOA_L
ClientSampleId :
SR-SG-6

Tot Ion	Ratio	Lower	Upper
51	100		
67	14.3	14.2	21.2

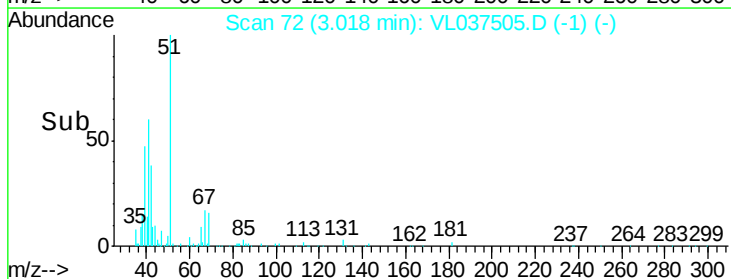
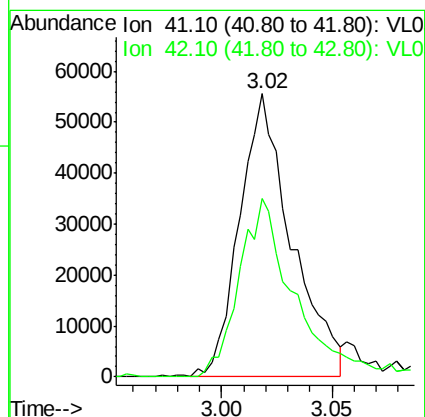
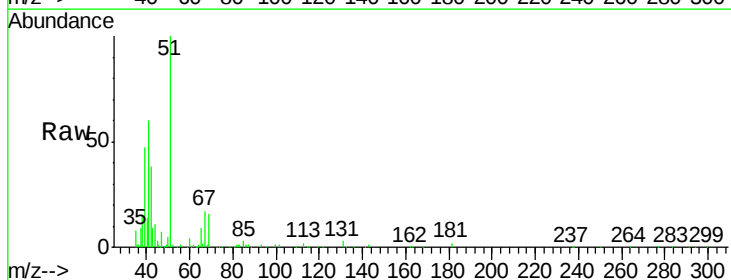
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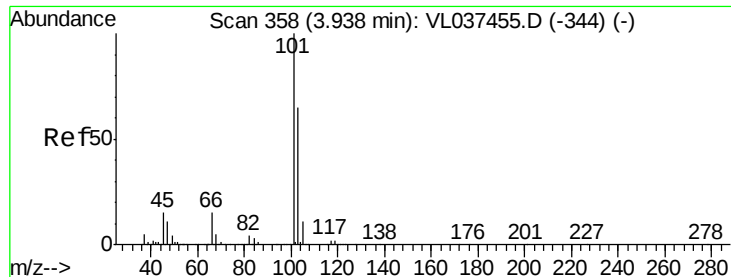
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#9
Propene
Concen: 0.942 ppbv
RT: 3.02 min Scan# 72
Delta R.T. 0.02 min
Lab File: VL037505.D
Acq: 19 Aug 2021 19:15

Tgt Ion	Ratio	Lower	Upper
41	100		
42	68.9	53.7	80.5





#11

Trichlorofluoromethane

Concen: 0.182 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.02 min

Lab File: VL037505.D

Acq: 19 Aug 2021 19:15

Instrument :

MSVOA_L

ClientSampleId :

SR-SG-6

Tot Ion:101 Resp: 38710

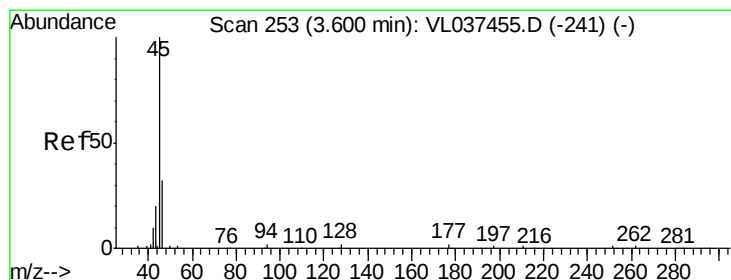
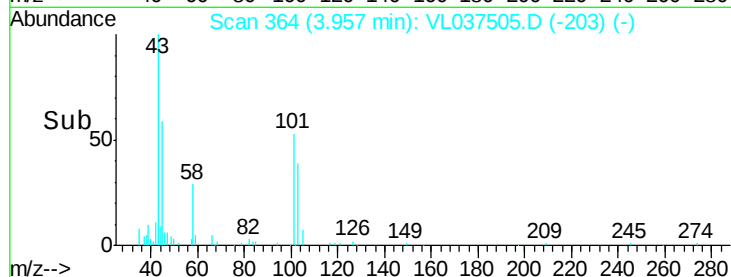
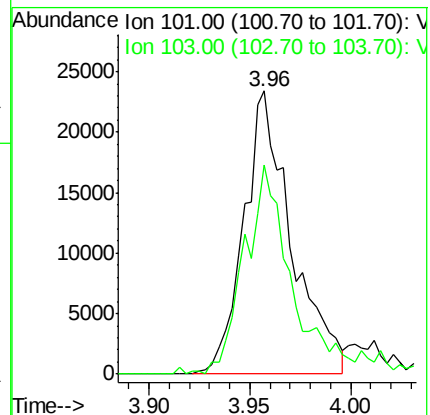
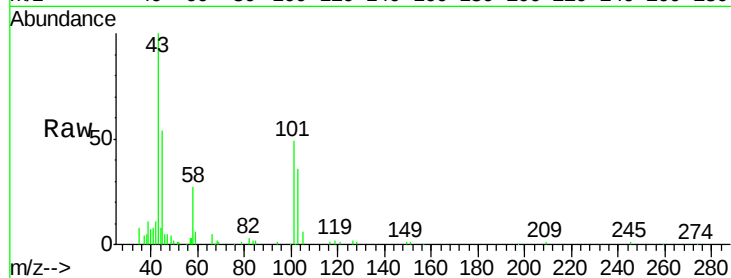
Ion Ratio Lower Upper

101 100

103 72.7 51.8 77.6

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#13

Ethanol

Concen: 224.722 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.01 min

Lab File: VL037505.D

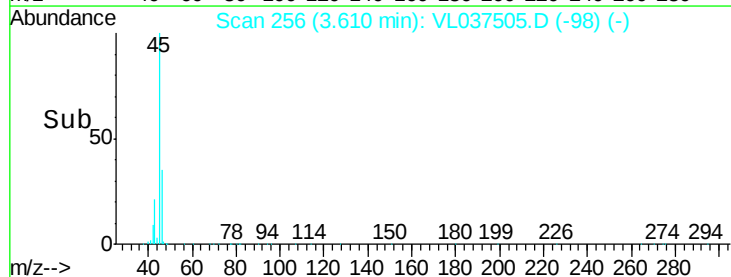
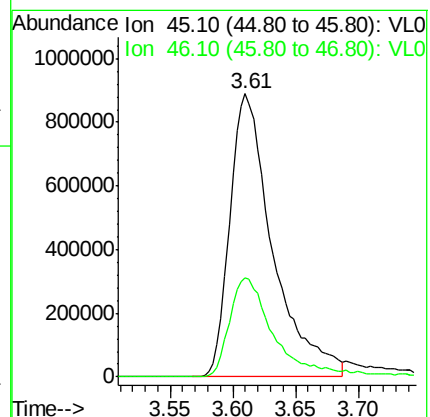
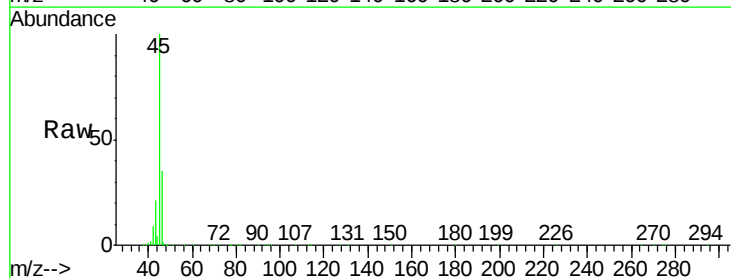
Acq: 19 Aug 2021 19:15

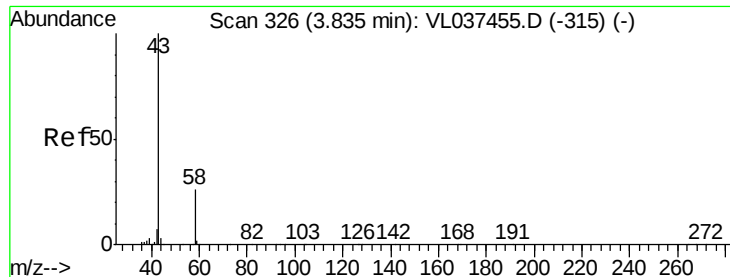
Tgt Ion: 45 Resp: 2112876

Ion Ratio Lower Upper

45 100

46 37.3 14.1 56.5





#15

Acetone

Concen: 30.608 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.02 min

Lab File: VL037505.D

Acq: 19 Aug 2021 19:15

Instrument :

MSVOA_L

ClientSampled :

SR-SG-6

Tot Ion: 43 Resp: 4392960

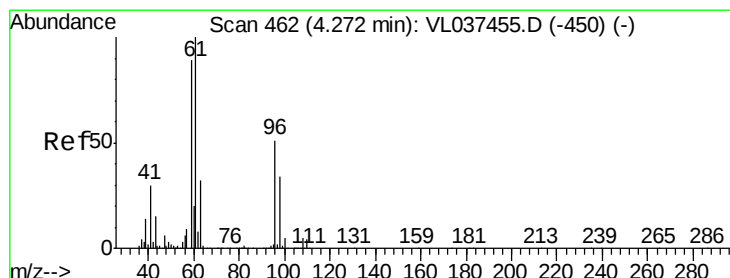
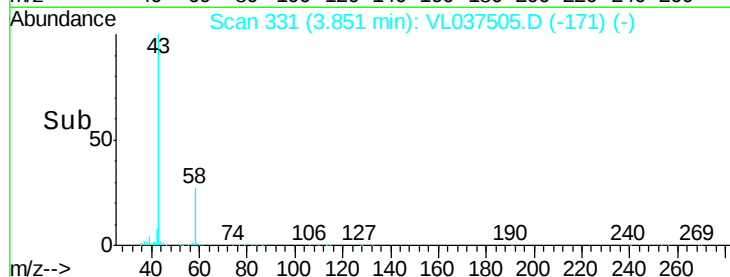
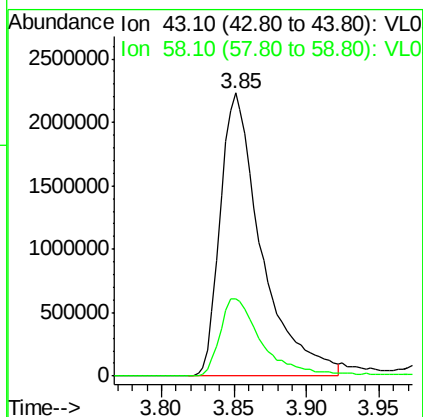
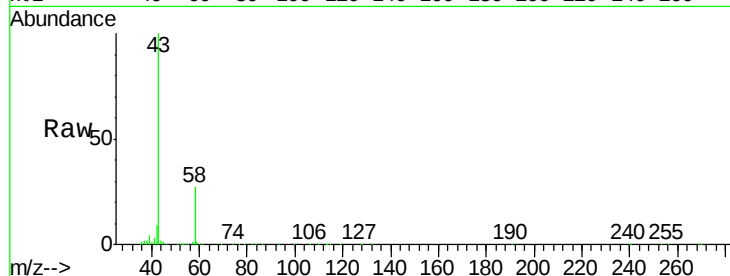
Ion Ratio Lower Upper

43 100

58 29.3 24.8 37.2

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#17

tert-Butyl alcohol

Concen: 1.100 ppbv m

RT: 4.31 min Scan# 473

Delta R.T. 0.04 min

Lab File: VL037505.D

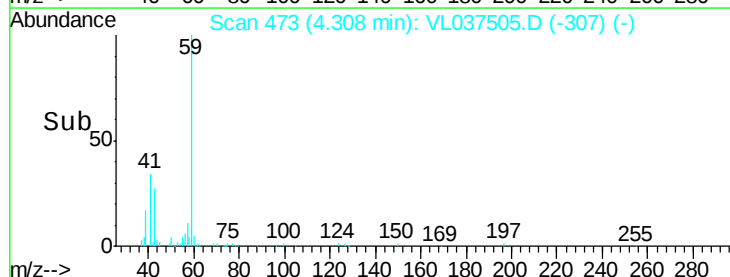
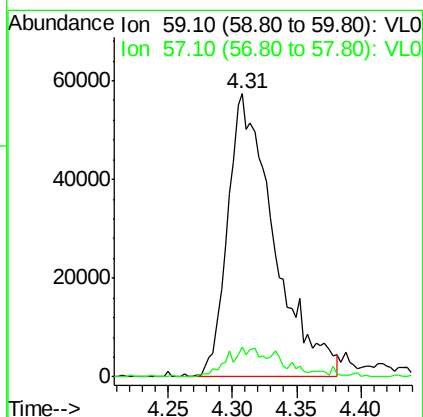
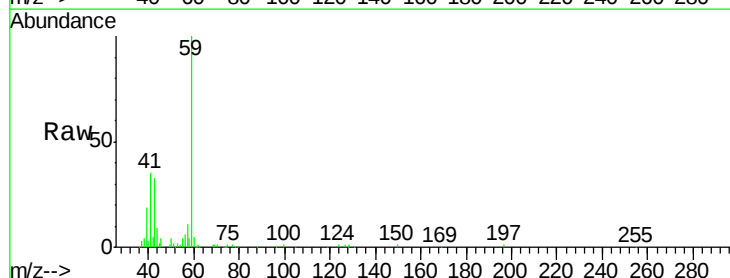
Acq: 19 Aug 2021 19:15

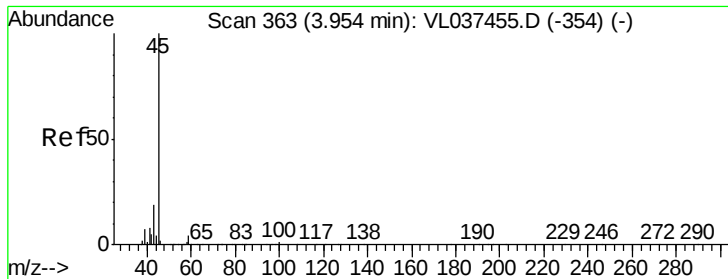
Tgt Ion: 59 Resp: 144196

Ion Ratio Lower Upper

59 100

57 11.3 8.3 12.5





#19

Isopropyl Alcohol

Concen: 4.938 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.02 min

Lab File: VL037505.D

Acq: 19 Aug 2021 19:15

Instrument :

MSVOA_L

ClientSampleId :

SR-SG-6

Tot Ion: 45 Resp: 406064

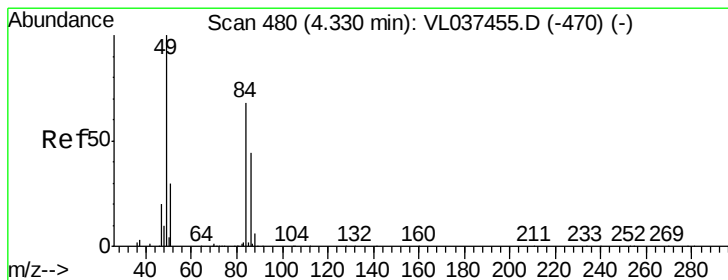
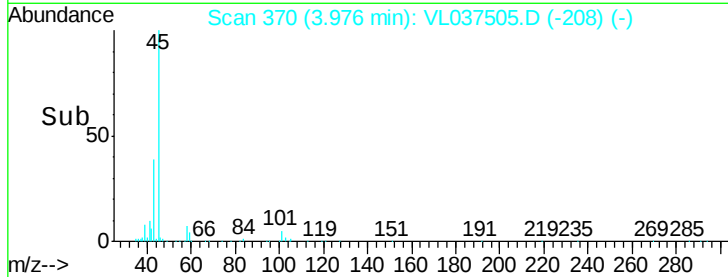
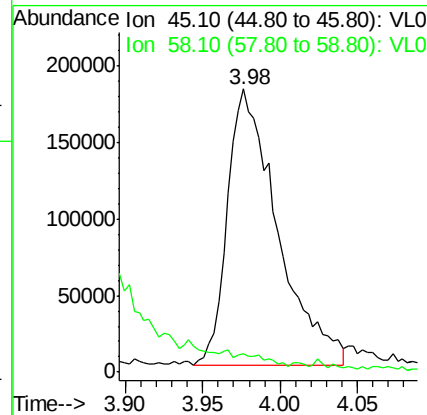
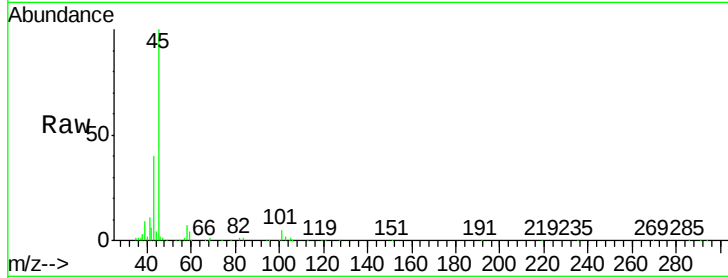
Ion Ratio Lower Upper

45 100

58 320.5 1.4 2.2#

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#20

Methylene Chloride

Concen: 13.258 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.02 min

Lab File: VL037505.D

Acq: 19 Aug 2021 19:15

Tgt Ion: 84 Resp: 952676

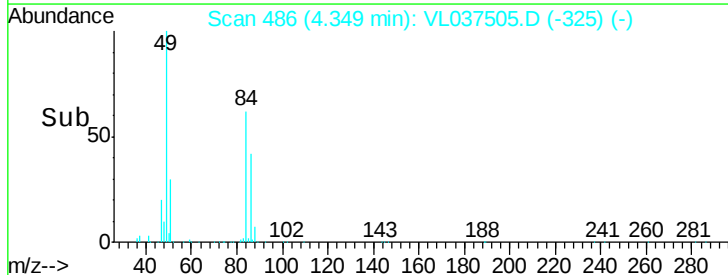
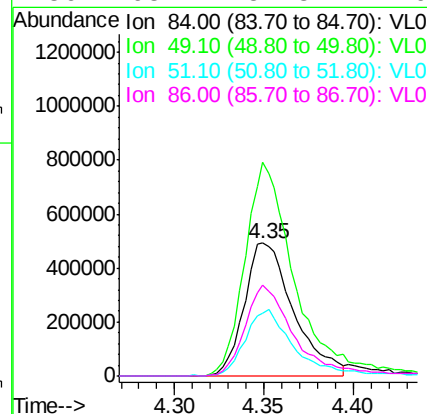
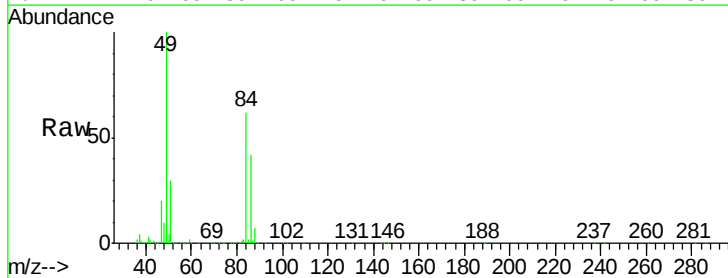
Ion Ratio Lower Upper

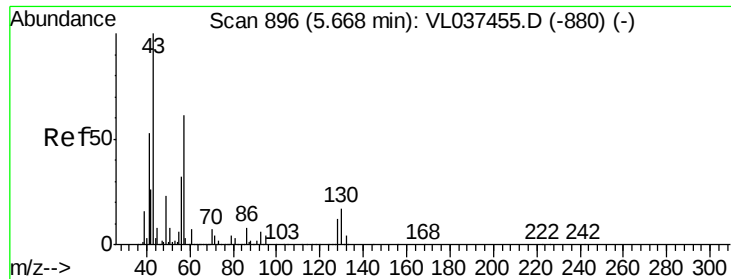
84 100

49 160.8 118.2 177.2

51 47.0 36.6 55.0

86 68.1 51.8 77.6





#26

Hexane

Concen: 4.388 ppbv

RT: 5.69 min Scan# 904

Delta R.T. 0.03 min

Lab File: VL037505.D

Acq: 19 Aug 2021 19:15

Instrument :

MSVOA_L

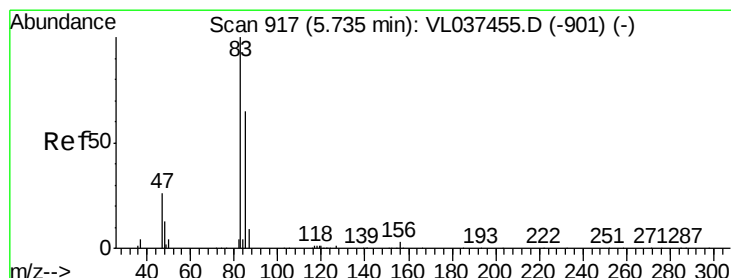
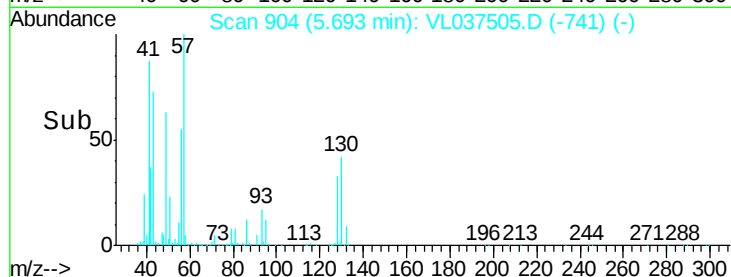
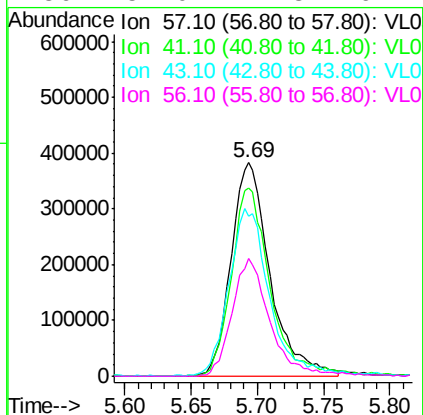
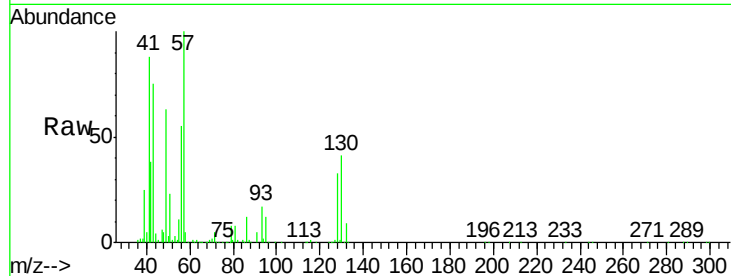
ClientSampleId :

SR-SG-6

Tot Ion	57	Resp	781756
Ion	Ratio	Lower	Upper
57	100		
41	90.1	72.3	108.5
43	81.4	172.3	258.5#
56	54.0	42.8	64.2

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#29

Chloroform

Concen: 0.099 ppbv m

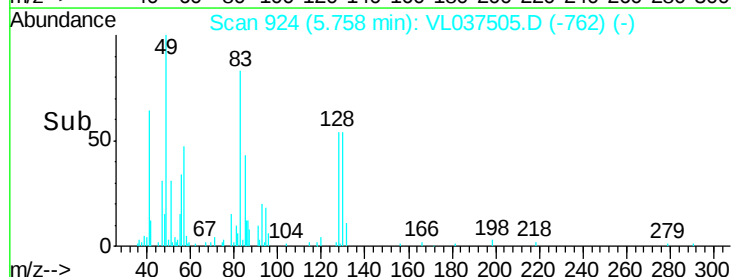
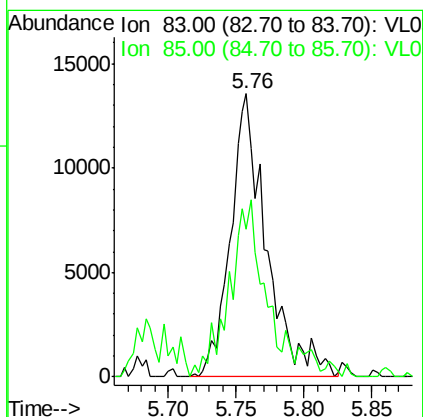
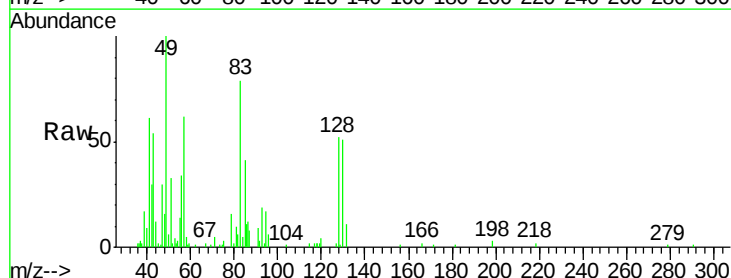
RT: 5.76 min Scan# 924

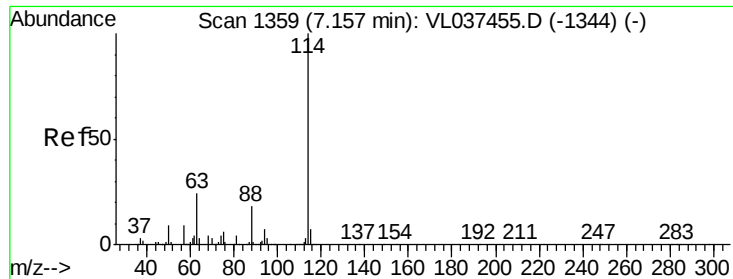
Delta R.T. 0.02 min

Lab File: VL037505.D

Acq: 19 Aug 2021 19:15

Tgt Ion	83	Resp	24976
Ion	Ratio	Lower	Upper
83	100		
85	52.2	52.3	78.5#





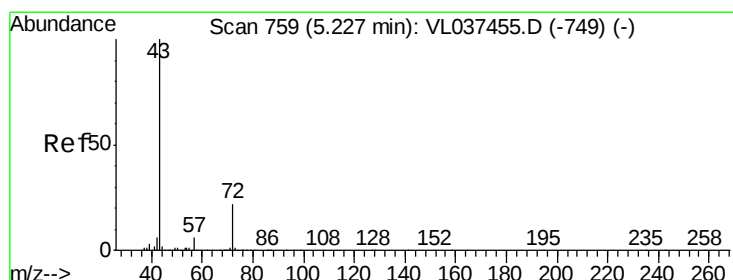
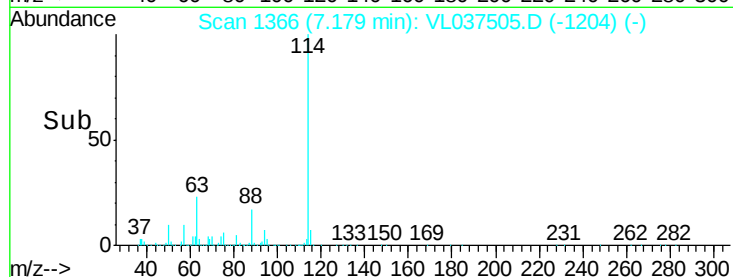
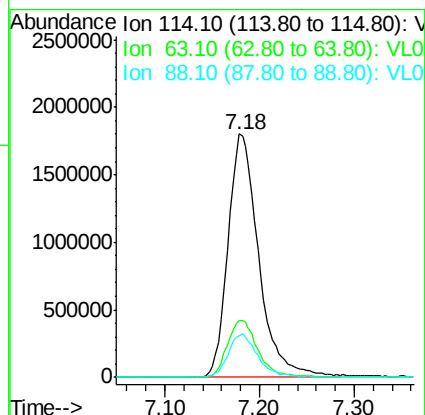
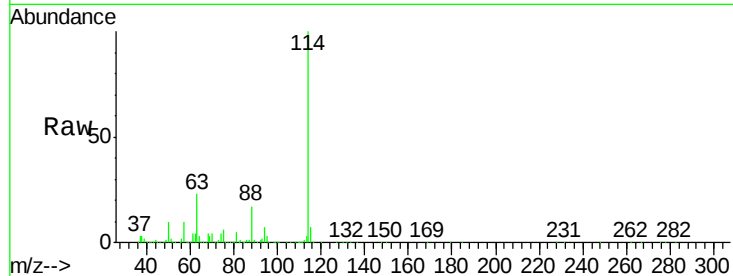
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. 0.02 min
 Lab File: VL037505.D
 Acq: 19 Aug 2021 19:15

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-SG-6

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.8	19.3	28.9
88	17.4	14.2	21.4

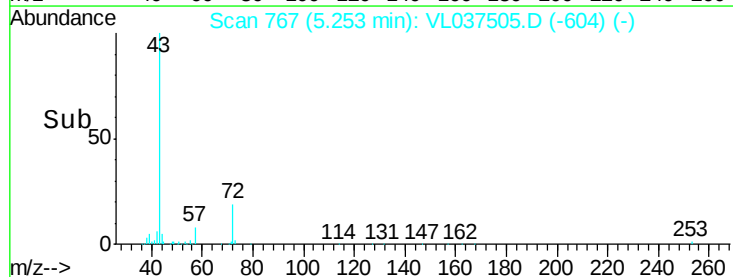
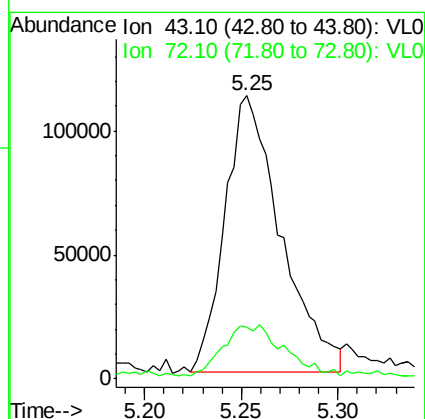
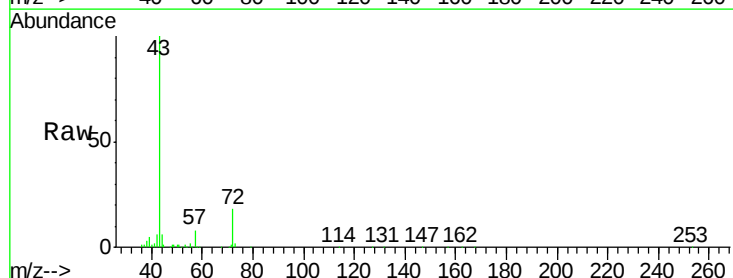
Manual Integrations
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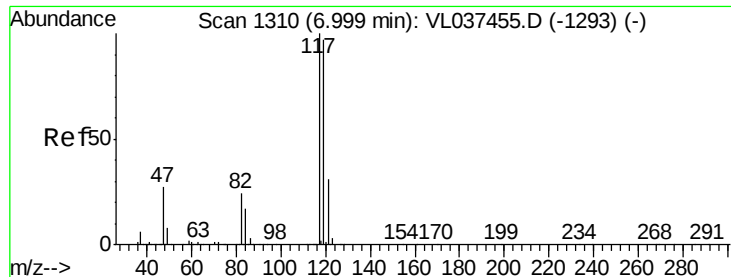
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#34
 2-Butanone
 Concen: 1.346 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.03 min
 Lab File: VL037505.D
 Acq: 19 Aug 2021 19:15

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.8	17.4	26.0





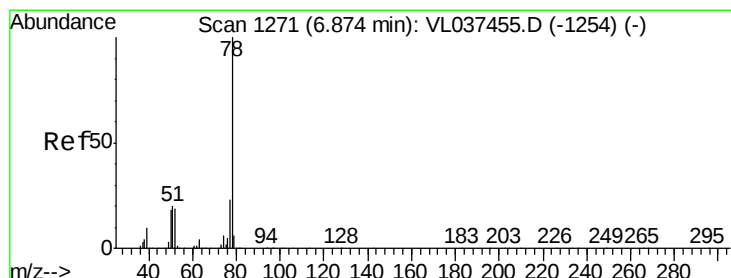
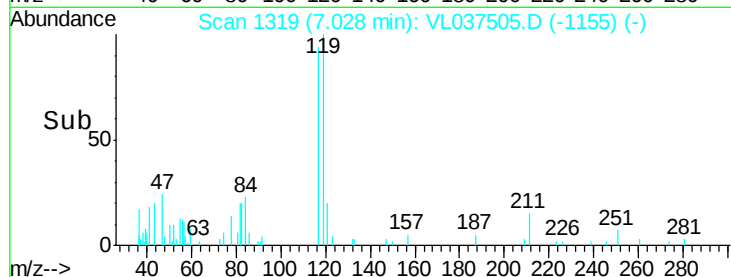
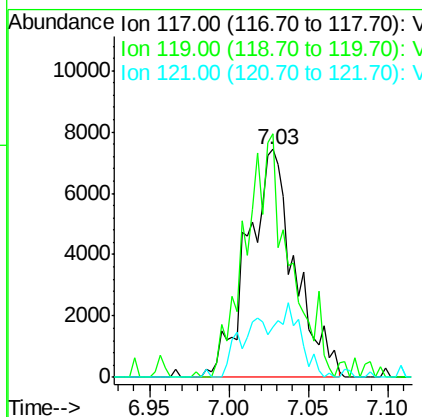
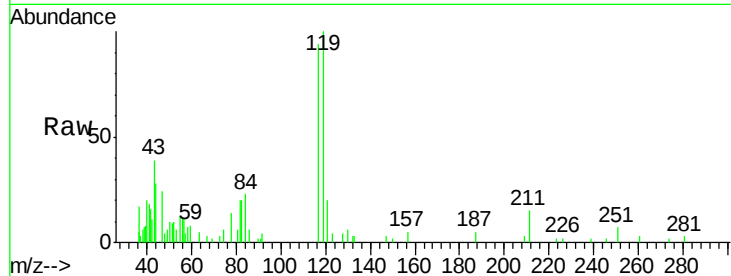
#35
Carbon Tetrachloride
Concen: 0.063 ppbv m
RT: 7.03 min Scan# 1319
Delta R.T. 0.03 min
Lab File: VL037505.D
Acq: 19 Aug 2021 19:15

Instrument :
MSVOA_L
ClientSampleId :
SR-SG-6

Tot Ion	Ratio	Lower	Upper
117	100		
119	106.7	77.3	115.9
121	21.8	25.2	37.8#

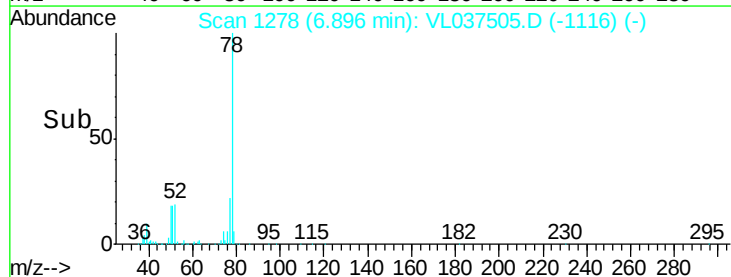
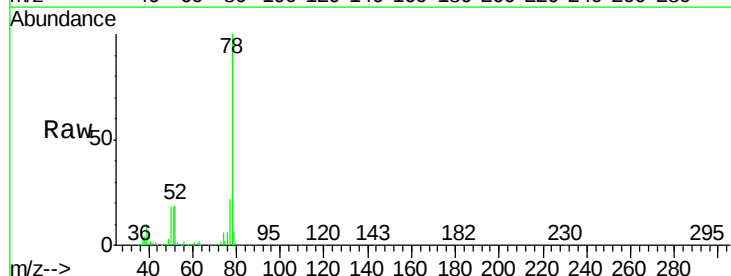
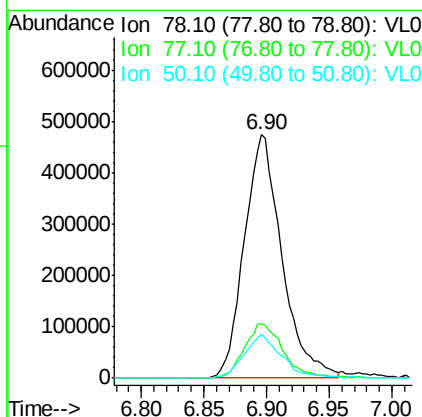
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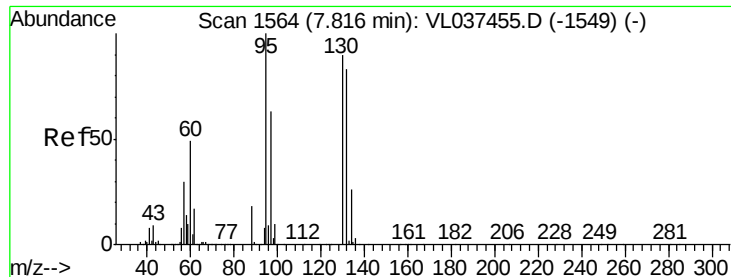
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#36
Benzene
Concen: 2.912 ppbv
RT: 6.90 min Scan# 1278
Delta R.T. 0.02 min
Lab File: VL037505.D
Acq: 19 Aug 2021 19:15

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.4	18.2	27.4
50	17.8	14.6	21.8





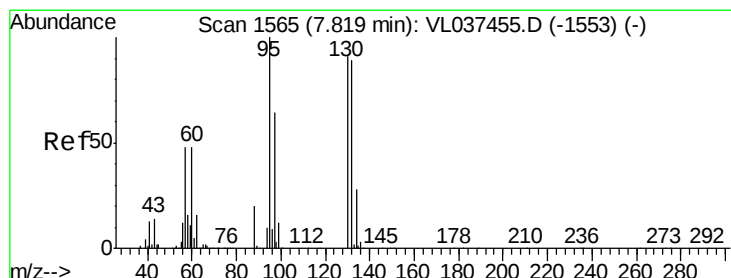
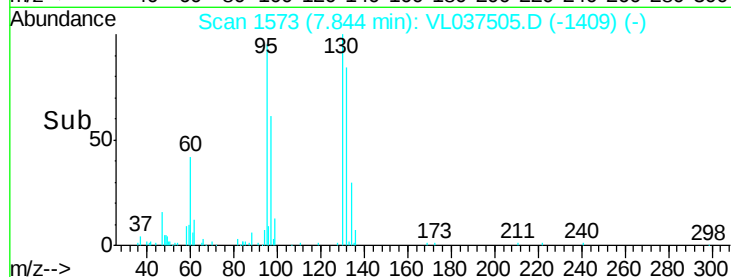
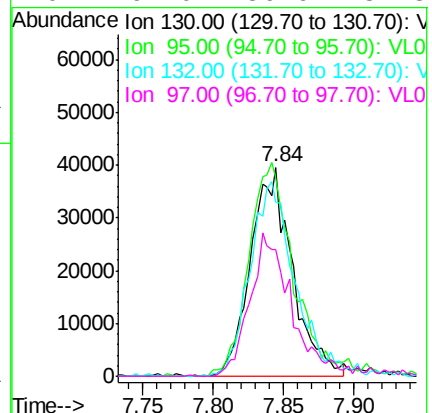
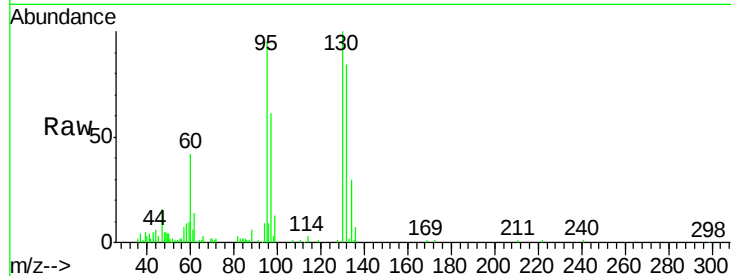
#38
 Trichloroethene
 Concen: 0.580 ppbv m
 RT: 7.84 min Scan# 1573
 Delta R.T. 0.03 min
 Lab File: VL037505.D
 Acq: 19 Aug 2021 19:15

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-SG-6

Tot Ion	Ratio	Lower	Upper
130	100		
95	95.0	89.2	133.8
132	83.7	74.0	111.0
97	61.0	56.6	84.8

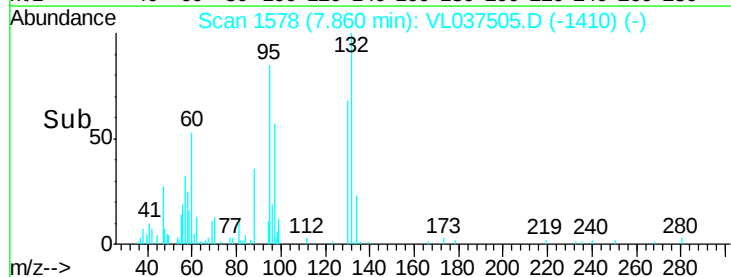
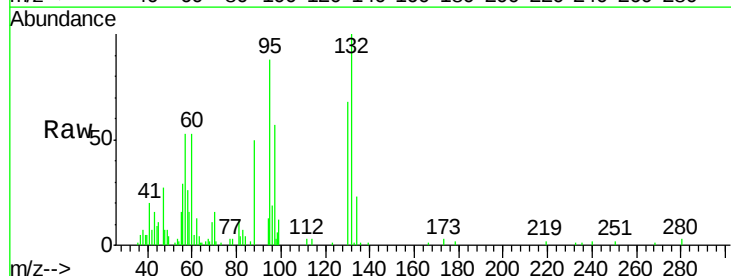
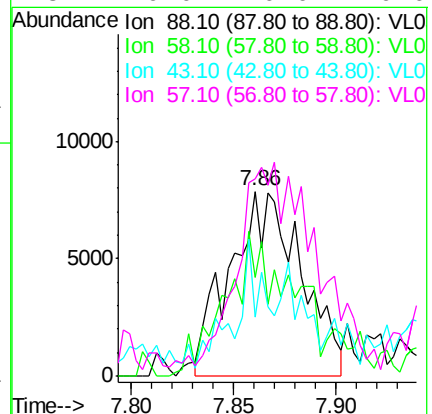
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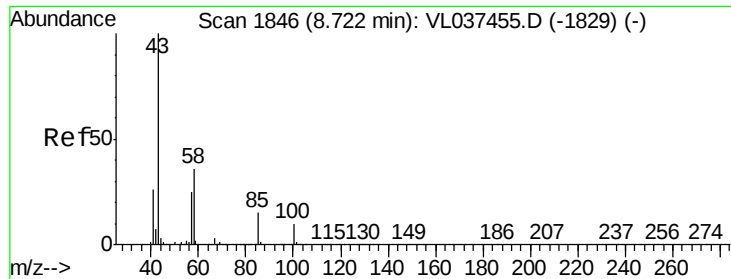
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#40
 1,4-Dioxane
 Concen: 0.589 ppbv m
 RT: 7.86 min Scan# 1578
 Delta R.T. 0.04 min
 Lab File: VL037505.D
 Acq: 19 Aug 2021 19:15

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	0.0	0.0
43	0.0	0.0	0.0
57	0.0	0.0	0.0





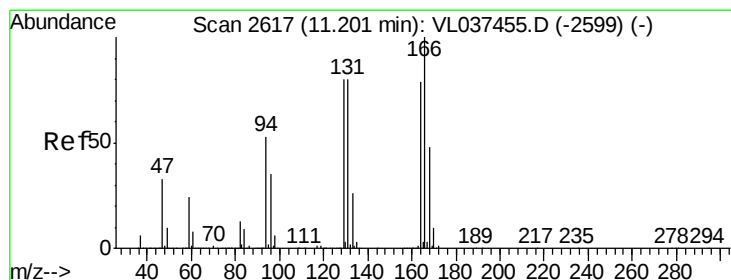
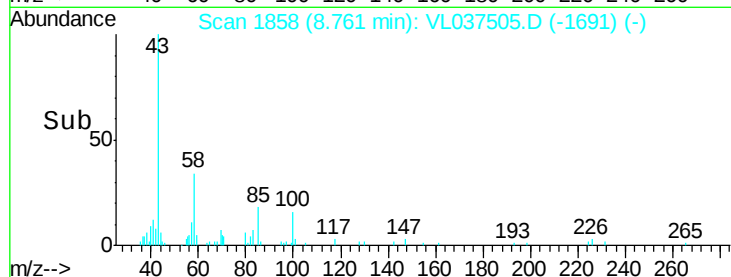
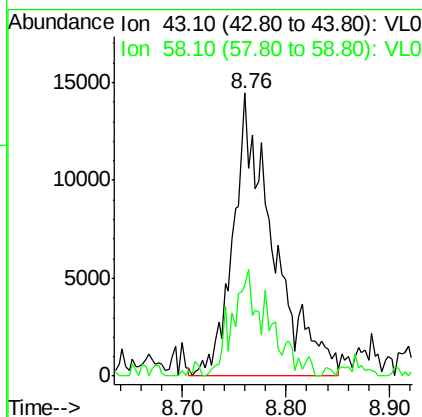
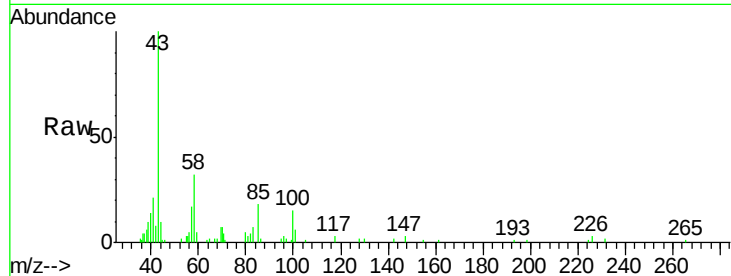
#50
4-Methyl-2-Pentanone
Concen: 0.179 ppbv m
RT: 8.76 min Scan# 1858
Delta R.T. 0.04 min
Lab File: VL037505.D
Acq: 19 Aug 2021 19:15

Instrument :
MSVOA_L
ClientSampleId :
SR-SG-6

Tot Ion	Ratio	Lower	Upper
43	100		
58	35.0	29.9	44.9

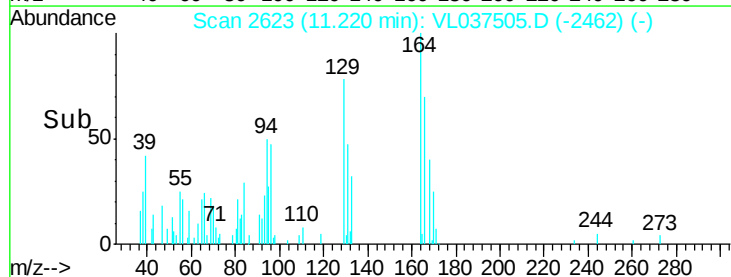
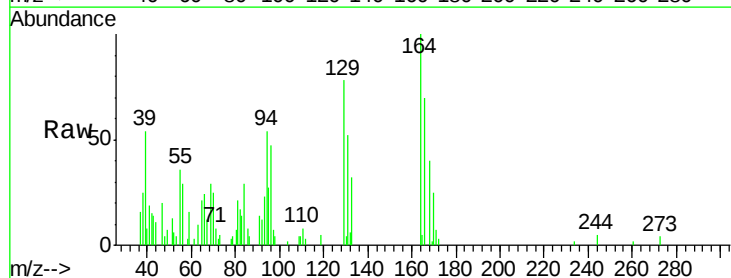
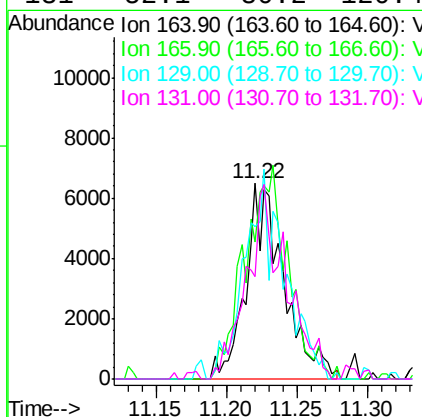
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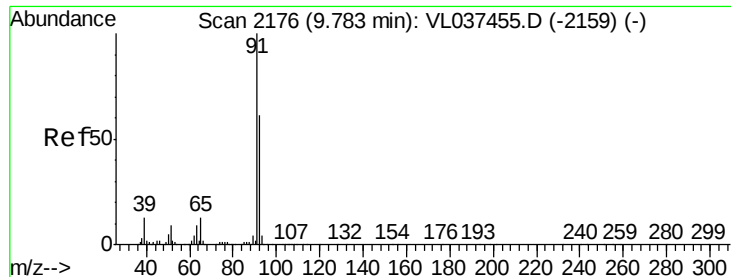
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#52
Tetrachloroethene
Concen: 0.087 ppbv m
RT: 11.22 min Scan# 2623
Delta R.T. 0.02 min
Lab File: VL037505.D
Acq: 19 Aug 2021 19:15

Tgt Ion	Ratio	Lower	Upper
164	100		
166	70.4	100.7	151.1#
129	78.2	80.9	121.3#
131	52.1	80.2	120.4#





#53

Toluene

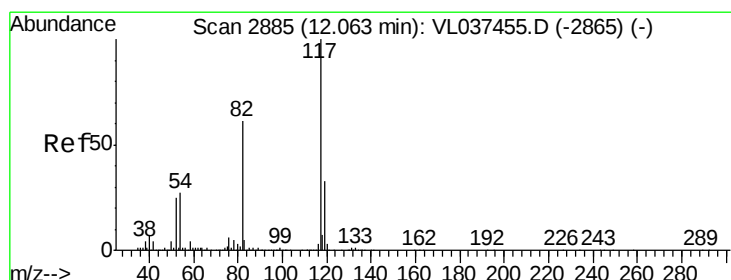
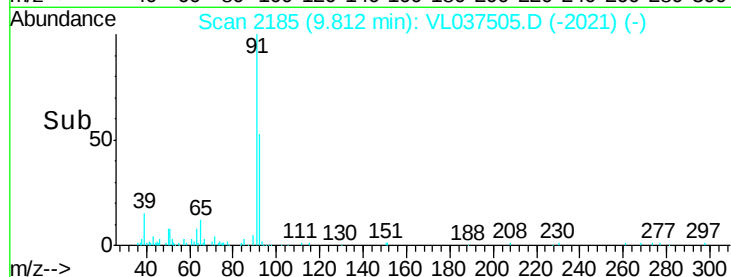
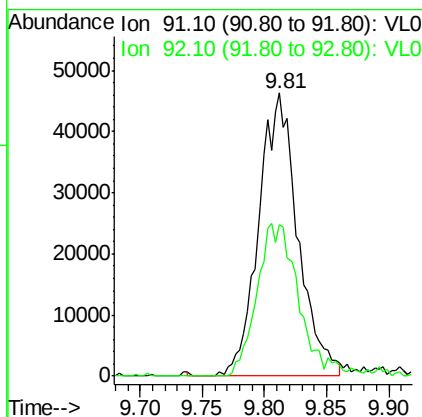
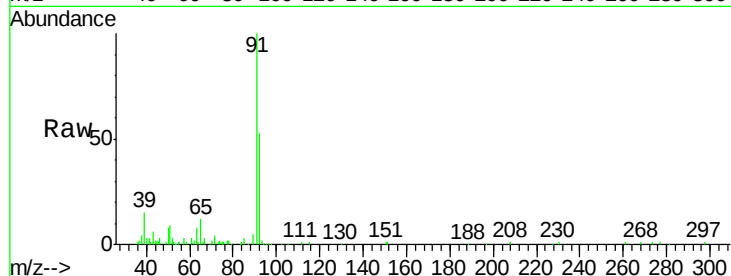
Concen: 0.259 ppbv m
RT: 9.81 min Scan# 2185
Delta R.T. 0.03 min
Lab File: VL037505.D
Acq: 19 Aug 2021 19:15

Instrument :
MSVOA_L
ClientSampleId :
SR-SG-6

Tot Ion	Ratio	Lower	Upper
91	100		
92	0.0	48.8	73.2#

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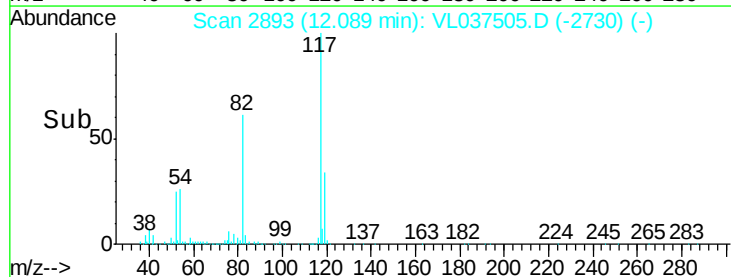
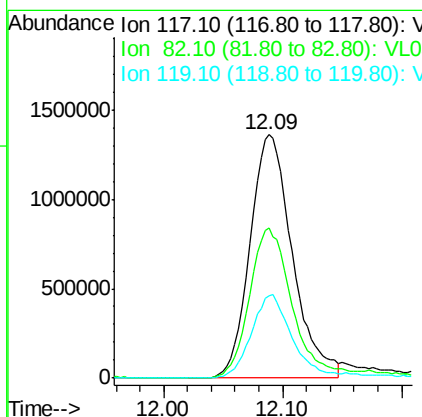
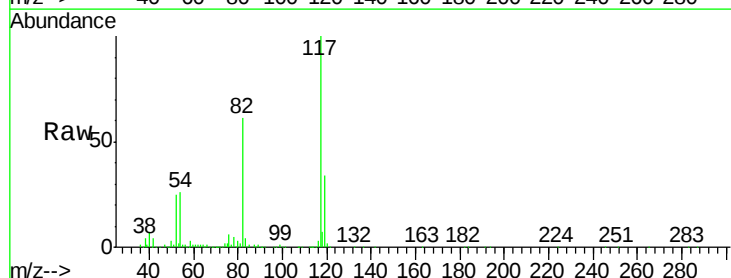


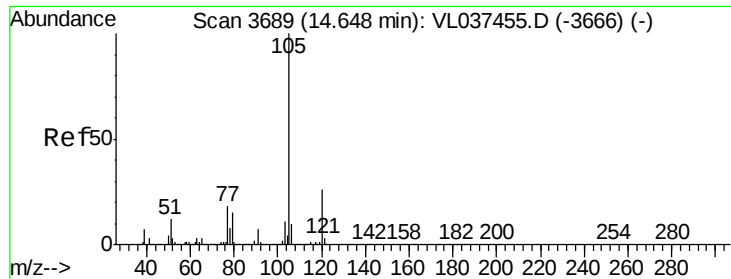
#55

Chlorobenzene-d5

Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. 0.03 min
Lab File: VL037505.D
Acq: 19 Aug 2021 19:15

Tgt Ion	Ratio	Lower	Upper
117	100		
82	66.5	52.9	79.3
119	35.6	24.8	37.2





#62

Isopropylbenzene

Concen: 2.971 ppbv

RT: 14.67 min Scan# 3695

Delta R.T. 0.02 min

Lab File: VL037505.D

Acq: 19 Aug 2021 19:15

Instrument :

MSVOA_L

ClientSampleId :

SR-SG-6

Tot Ion:105 Resp: 1578190

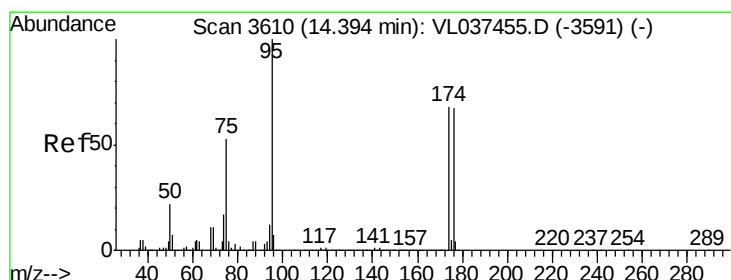
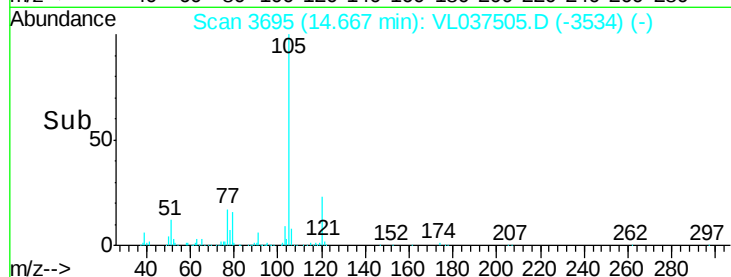
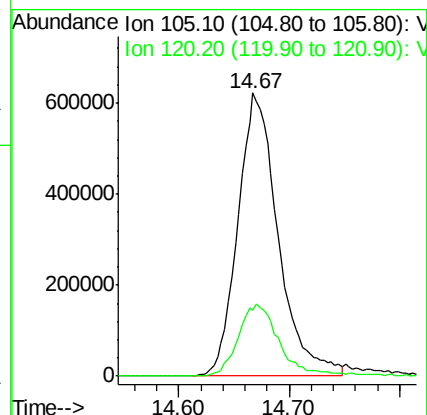
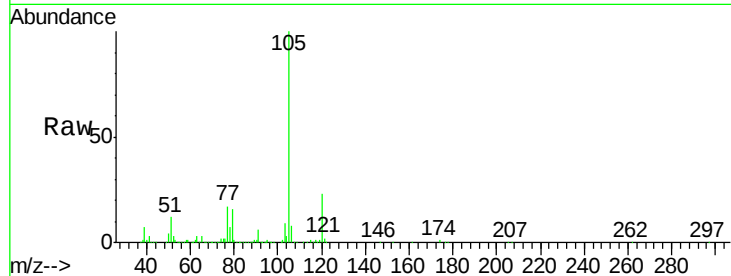
Ion Ratio Lower Upper

105 100

120 26.5 21.5 32.3

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.356 ppbv m

RT: 14.42 min Scan# 3617

Delta R.T. 0.02 min

Lab File: VL037505.D

Acq: 19 Aug 2021 19:15

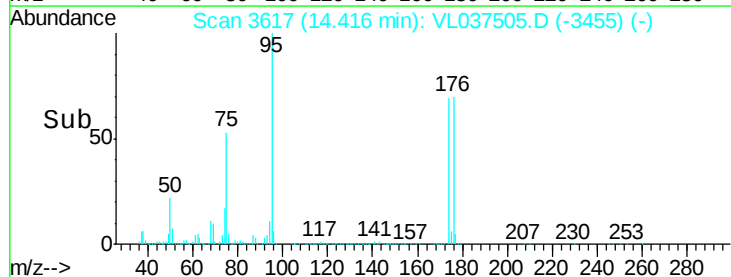
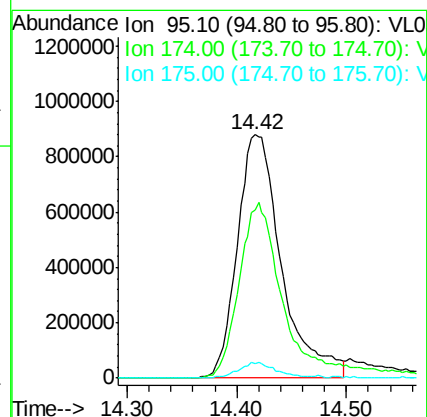
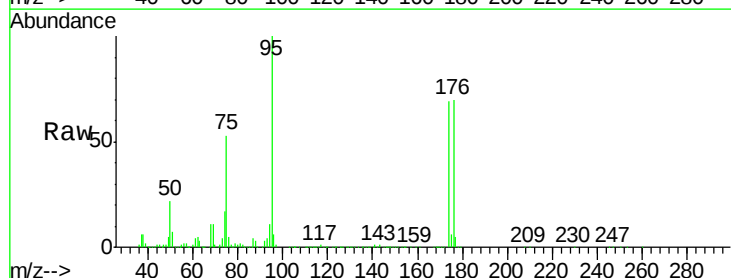
Tgt Ion: 95 Resp: 2466062

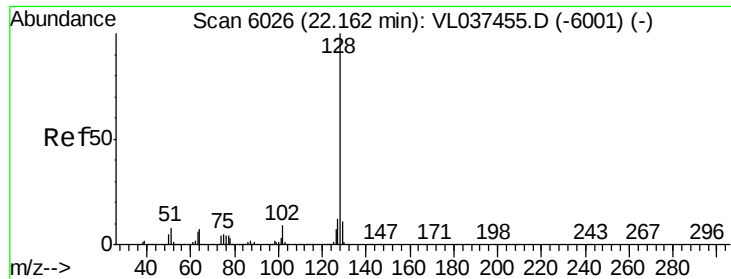
Ion Ratio Lower Upper

95 100

174 75.5 59.6 89.4

175 5.8 4.6 7.0





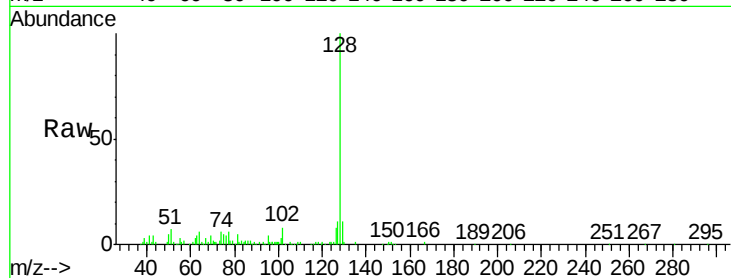
#79
Naphthalene
Concen: 1.347 ppbv
RT: 22.19 min Scan# 6036
Delta R.T. 0.03 min
Lab File: VL037505.D
Acq: 19 Aug 2021 19:15

Instrument :
MSVOA_L
ClientSampleId :
SR-SG-6

Tot Ion	Ratio	Resp Lower	Upper
128	100		
127	10.9	9.4	14.2
129	10.7	8.8	13.2

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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V

