

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011321\
 Data File : VL036229.D
 Acq On : 13 Jan 2021 17:27
 Operator : SY/AP
 Sample : M1066-03
 Misc : 400ml/MSVOA L
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 0121-SS3

Manual Integrations
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 1/18/2021 3:49:38 PM

Quant Time: Jan 16 22:02:05 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 14 16:13:38 2021
 QLast Update : Thu Jan 14 16:13:38 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1491351	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3321531	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.10	117	2892552	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2384759	9.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	30512	0.153	ppbv	98
3) Chlorodifluoromethane	2.99	51	45539m	0.249	ppbv	
4) Chloromethane	3.14	50	31162	0.344	ppbv	90
9) Propene	3.01	41	235473	2.700	ppbv	94
10) Heptane	8.13	43	50745m	0.234	ppbv	
11) Trichlorofluoromethane	3.95	101	51837m	0.255	ppbv	
13) Ethanol	3.64	45	1805409	131.824	ppbv	85
15) Acetone	3.85	43	4630154	25.350	ppbv	98
17) tert-Butyl alcohol	4.32	59	372173	2.469	ppbv	99
19) Isopropyl Alcohol	4.01	45	233858m	2.124	ppbv	
20) Methylene Chloride	4.35	84	2030314	34.828	ppbv	96
24) 1,1-Dichloroethane	5.01	63	370730m	2.312	ppbv	
26) Hexane	5.69	57	2633267	17.248	ppbv #	36
29) Chloroform	5.76	83	90557m	0.414	ppbv	
32) 1,1,1-Trichloroethane	6.52	97	1728626	8.176	ppbv	99
34) 2-Butanone	5.25	43	403455m	1.649	ppbv	
35) Carbon Tetrachloride	7.02	117	22644m	0.108	ppbv	
36) Benzene	6.90	78	209001m	0.687	ppbv	
38) Trichloroethene	7.84	130	23815m	0.211	ppbv	
44) 2,2,4-Trimethylpentane	7.88	57	68960m	0.123	ppbv	
52) Tetrachloroethene	11.23	164	122807	1.095	ppbv	92
53) Toluene	9.81	91	422629	1.241	ppbv	98
58) Ethyl Benzene	12.72	91	108552	0.253	ppbv	96
59) m/p-Xylene	12.97	91	299616m	0.812	ppbv	
60) o-Xylene	13.70	91	120792m	0.340	ppbv	
73) 1,3,5-Trimethylbenzene	16.00	105	55931m	0.146	ppbv	
74) 1,2,4-Trimethylbenzene	16.77	105	184249	0.470	ppbv #	69

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

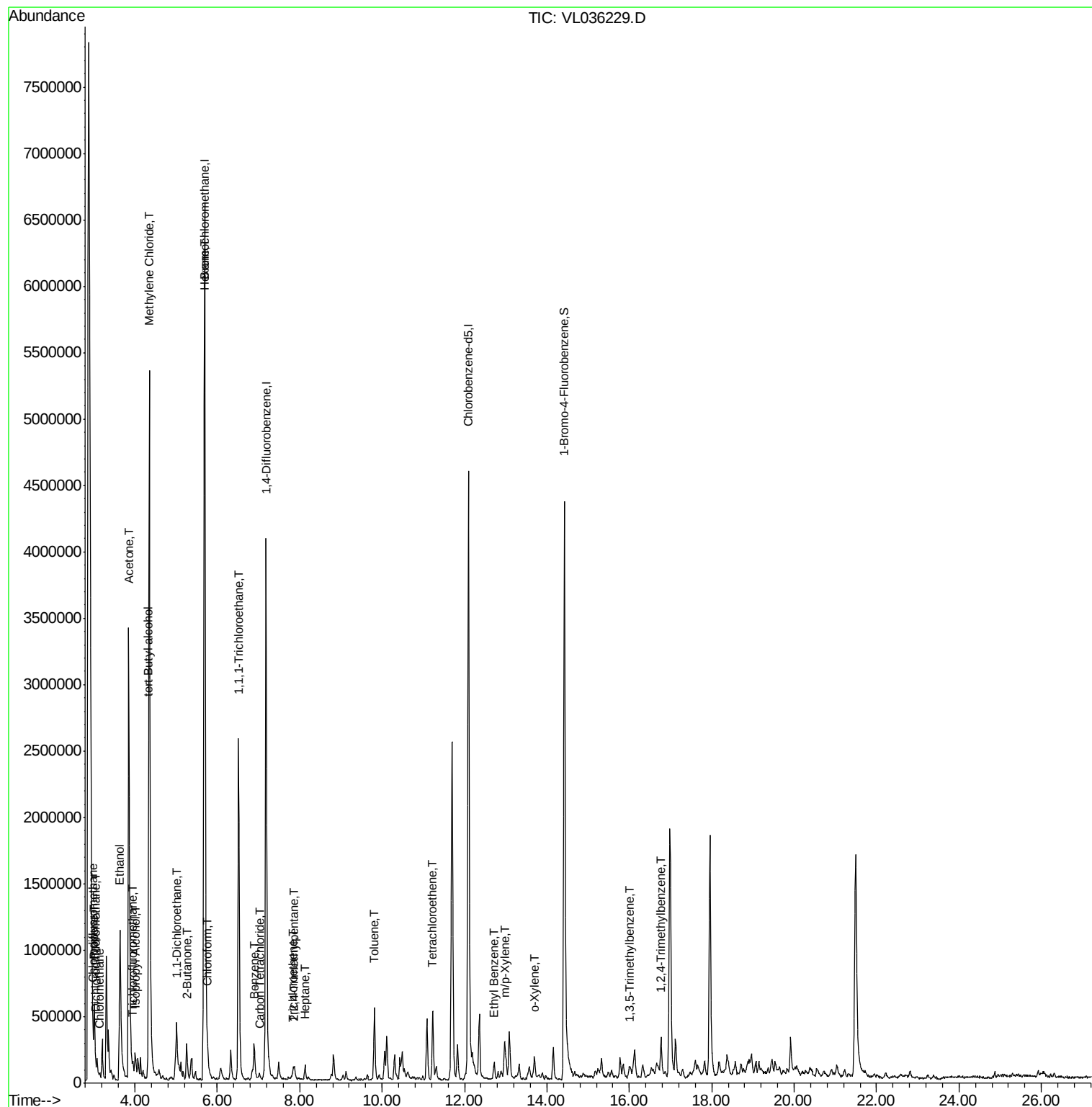
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL011321\
Data File : VL036229.D
Acq On : 13 Jan 2021 17:27
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Misc : 400ml/MSVOA L
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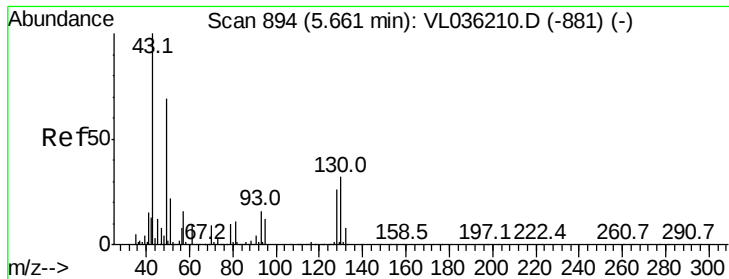
Instrument :
MSVOA_L
ClientSampleId :
0121-SS3

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Quant Time: Jan 16 22:02:05 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan
QLast Update : Thu Jan 14 16:13:38 2021
Response via : Initial Calibration





#1

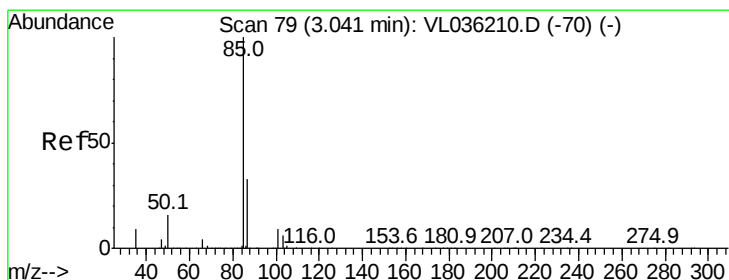
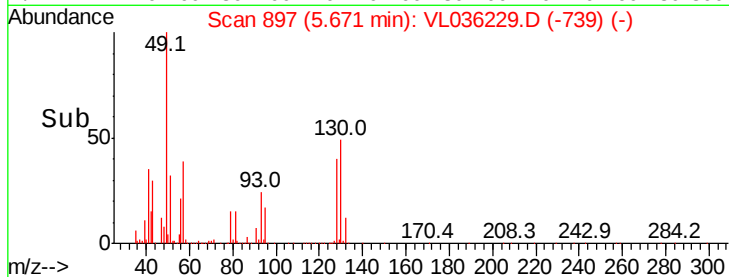
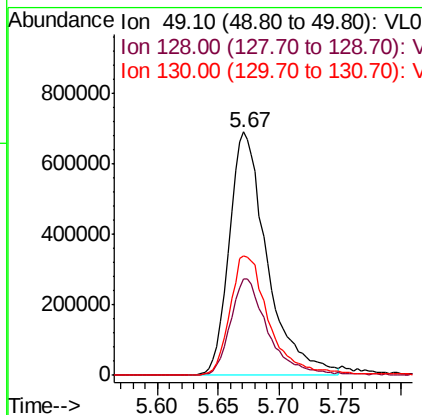
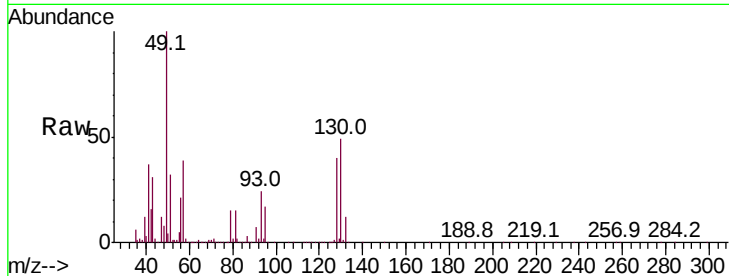
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.67 min Scan# 897
 Delta R.T. 0.01 min
 Lab File: VL036229.D
 Acq: 13 Jan 2021 17:27

Instrument :
 MSVOA_L
 ClientSampleId :
 0121-SS3

Tot Ion	Ratio	Lower	Upper
49	100		
128	40.3	20.1	60.2
130	51.7	25.3	75.9

Manual Integrations
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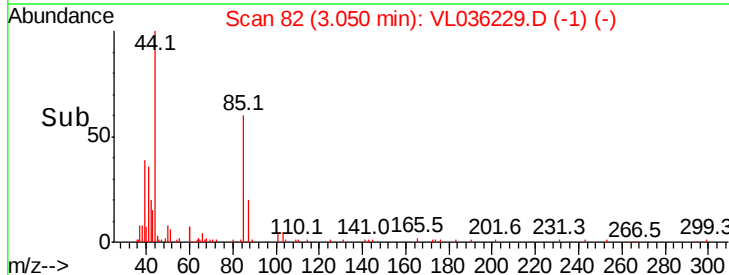
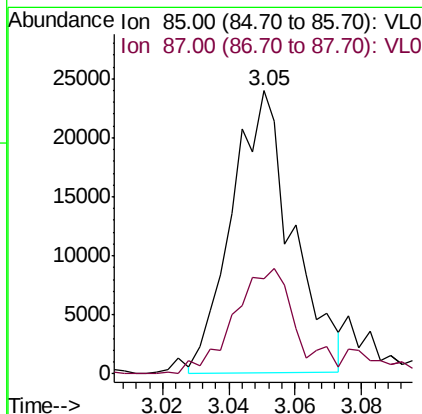
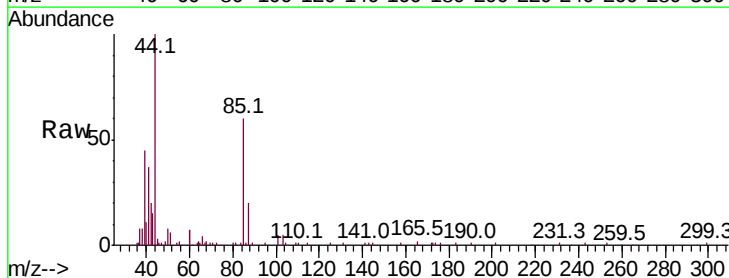
MMDadoda
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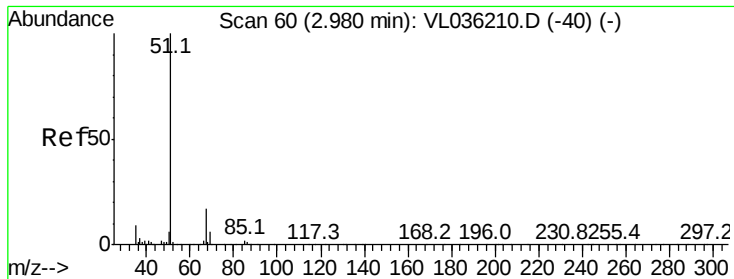


#2

Dichlorodifluoromethane
 Concen: 0.153 ppbv
 RT: 3.05 min Scan# 82
 Delta R.T. 0.01 min
 Lab File: VL036229.D
 Acq: 13 Jan 2021 17:27

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.9	26.4	39.6





#3

Chlorodifluoromethane

Concen: 0.249 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.01 min

Lab File: VL036229.D

Acq: 13 Jan 2021 17:27

Instrument :

MSVOA_L

ClientSampleId :

0121-SS3

Tot Ion: 51 Resp: 45539

Ion Ratio Lower Upper

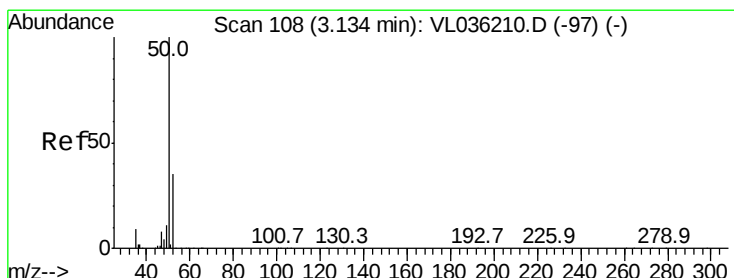
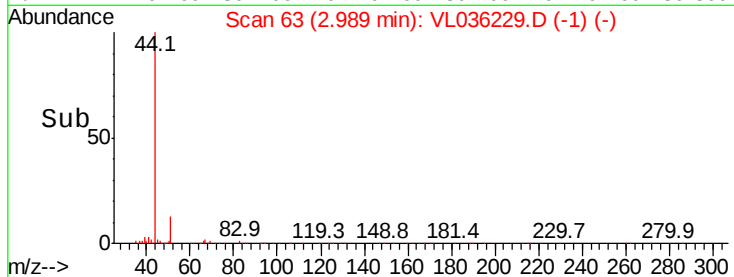
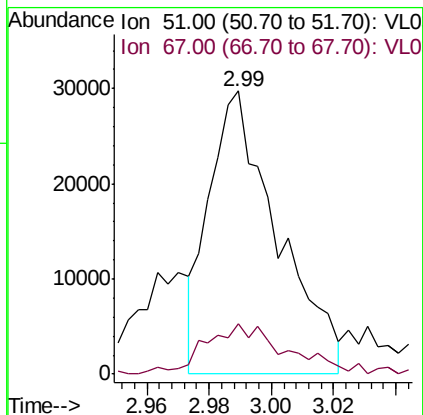
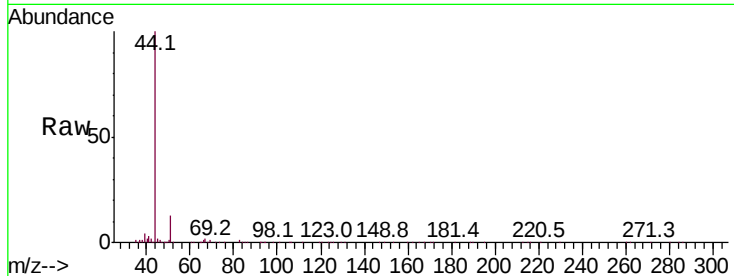
51 100

67 21.9 14.0 21.0#

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#4

Chloromethane

Concen: 0.344 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.01 min

Lab File: VL036229.D

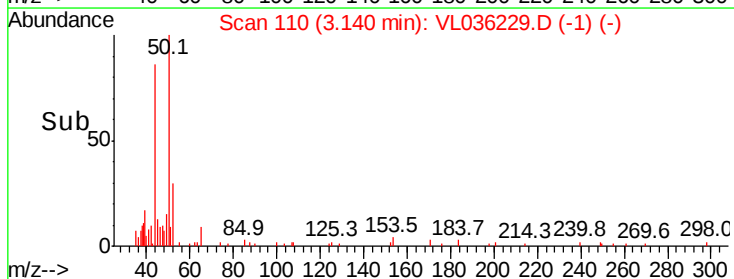
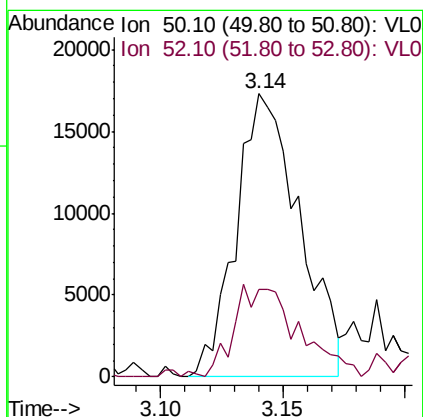
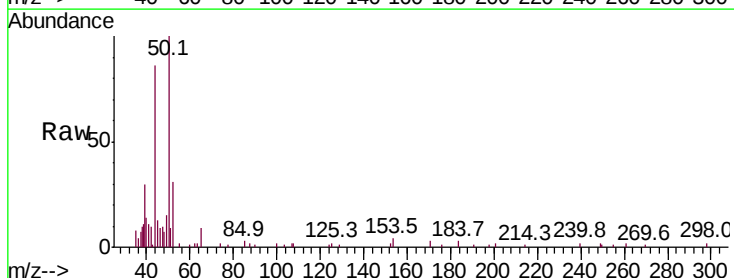
Acq: 13 Jan 2021 17:27

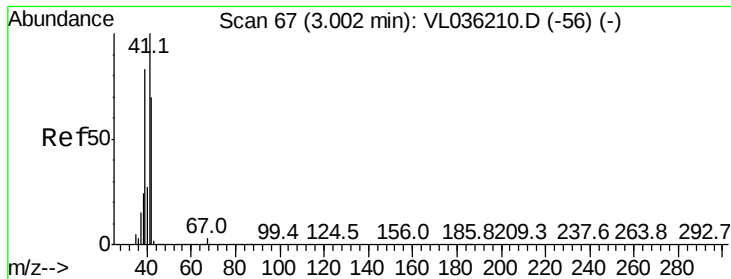
Tgt Ion: 50 Resp: 31162

Ion Ratio Lower Upper

50 100

52 28.9 27.8 41.8





#9

Propene

Concen: 2.700 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.01 min

Lab File: VL036229.D

Acq: 13 Jan 2021 17:27

Instrument :

MSVOA_L

ClientSampleId :

0121-SS3

Tot Ion: 41 Resp: 235473

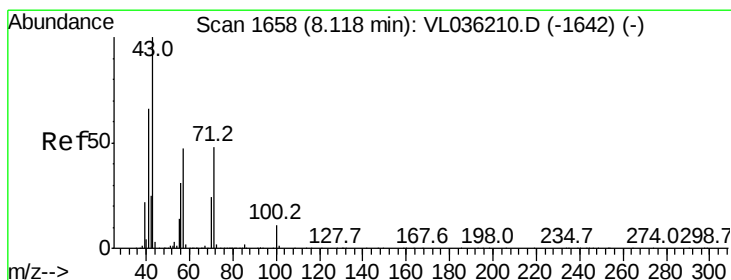
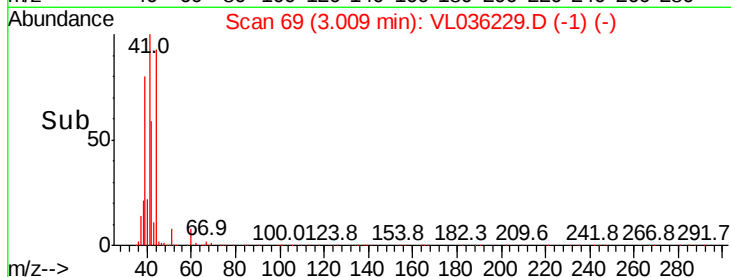
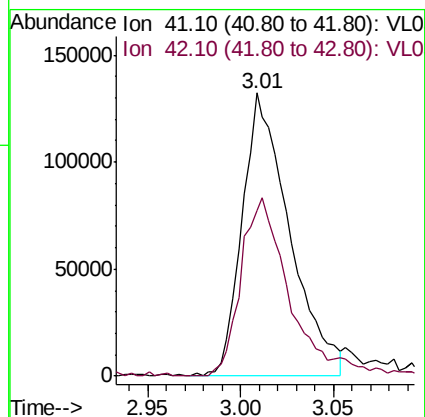
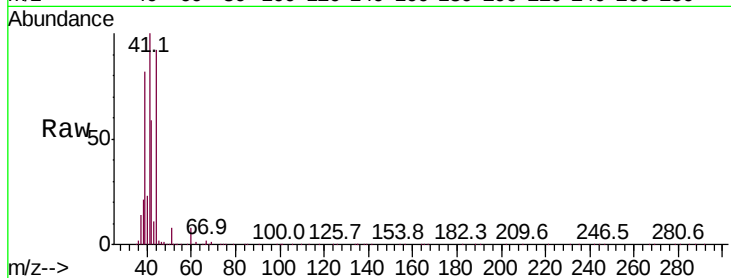
Ion Ratio Lower Upper

41 100

42 66.2 57.1 85.7

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#10

Heptane

Concen: 0.234 ppbv m

RT: 8.13 min Scan# 1663

Delta R.T. 0.02 min

Lab File: VL036229.D

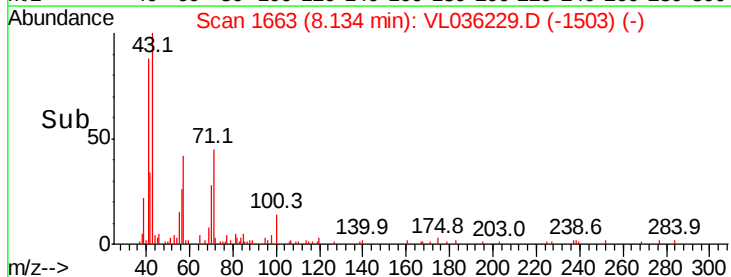
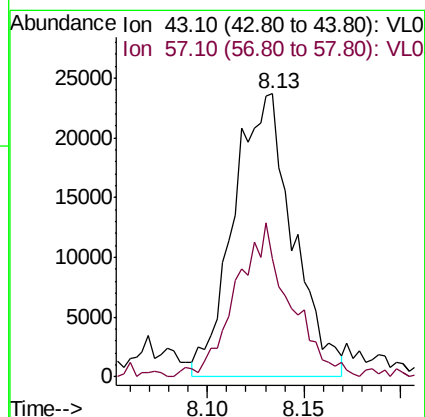
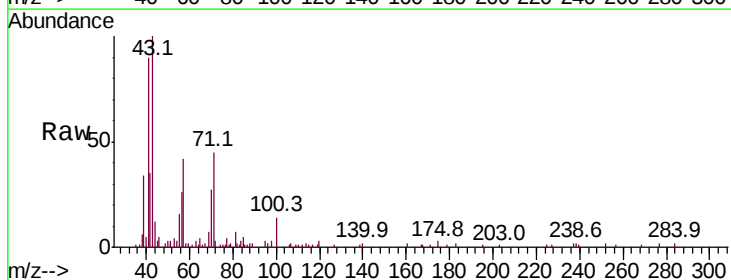
Acq: 13 Jan 2021 17:27

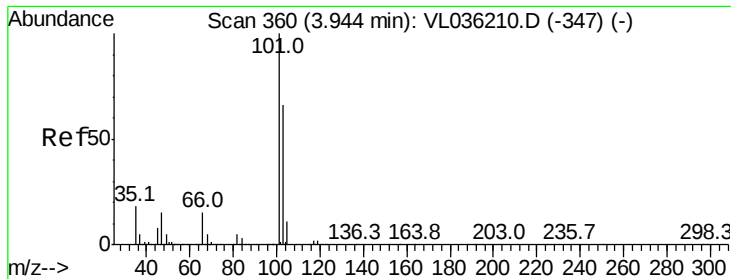
Tgt Ion: 43 Resp: 50745

Ion Ratio Lower Upper

43 100

57 51.9 38.1 57.1





#11

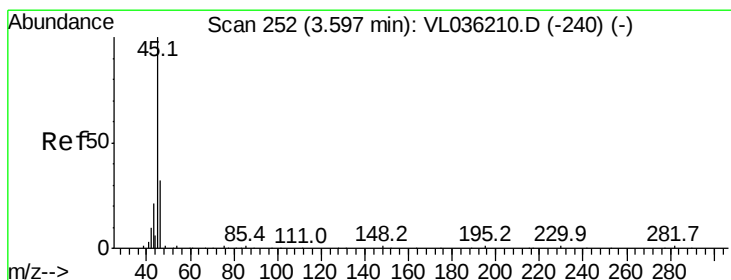
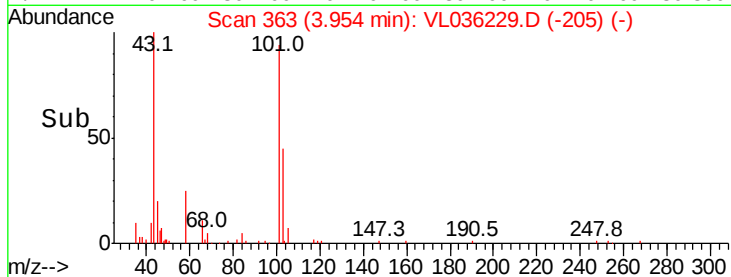
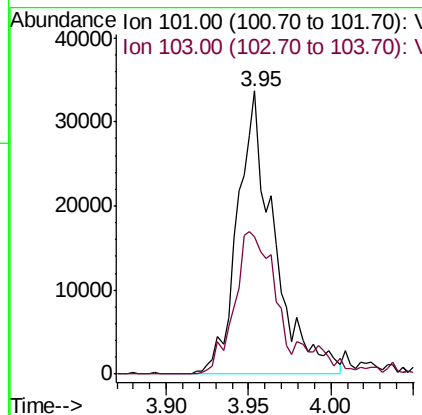
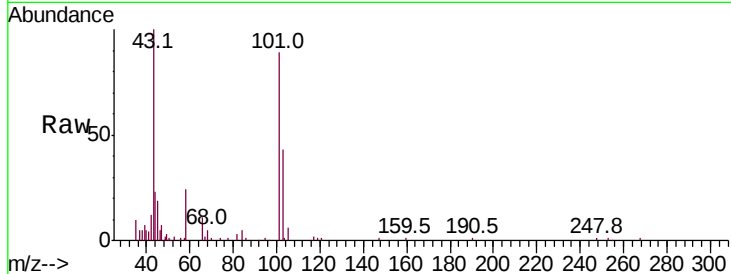
Trichlorofluoromethane
Concen: 0.255 ppbv m
RT: 3.95 min Scan# 363
Delta R.T. 0.01 min
Lab File: VL036229.D
Acq: 13 Jan 2021 17:27

Instrument :
MSVOA_L
ClientSampleId :
0121-SS3

Tot Ion	Ratio	Lower	Upper
101	100		
103	48.8	52.6	78.8#

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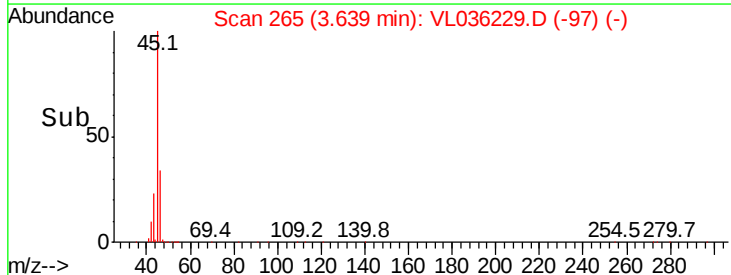
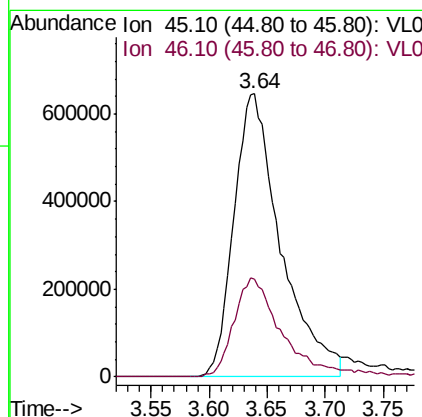
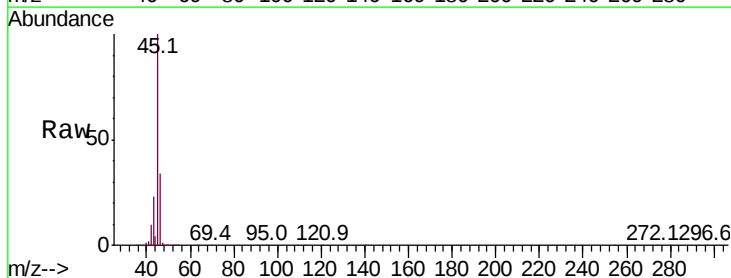
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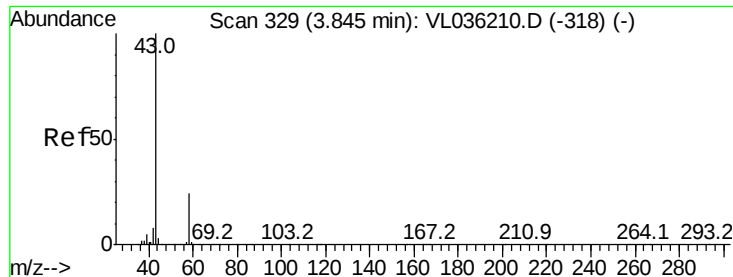


#13

Ethanol
Concen: 131.824 ppbv
RT: 3.64 min Scan# 265
Delta R.T. 0.04 min
Lab File: VL036229.D
Acq: 13 Jan 2021 17:27

Tgt Ion	Ratio	Lower	Upper
45	100		
46	37.8	19.2	77.0





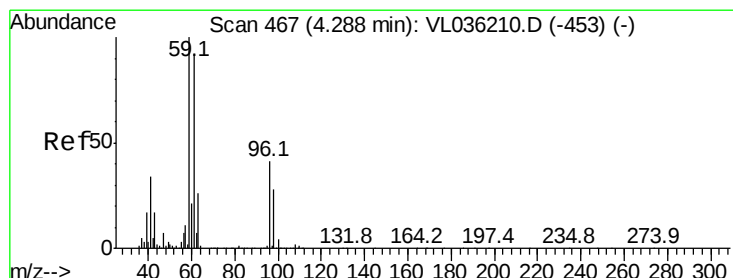
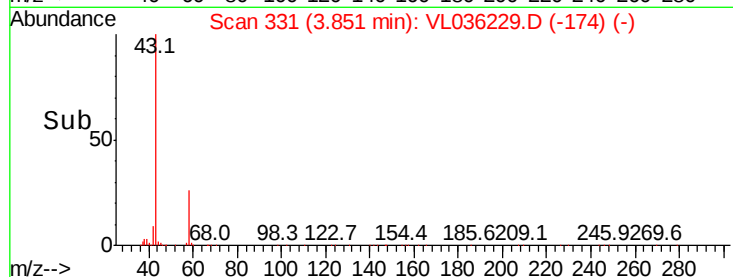
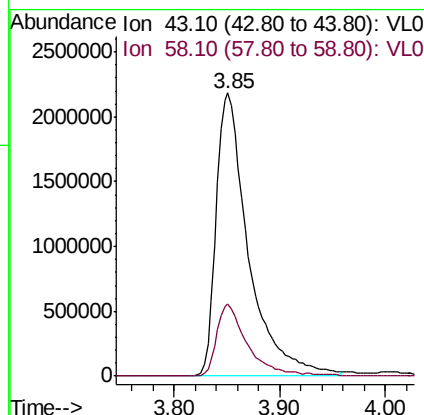
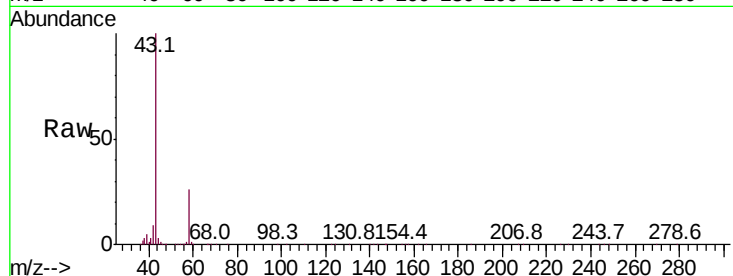
#15
Acetone
Concen: 25.350 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.01 min
Lab File: VL036229.D
Acq: 13 Jan 2021 17:27

Instrument :
MSVOA_L
ClientSampleId :
0121-SS3

Tot Ion: 43 Resp: 4630154
Ion Ratio Lower Upper
43 100
58 25.1 20.9 31.3

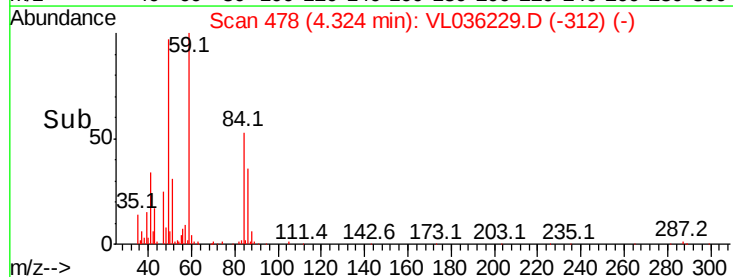
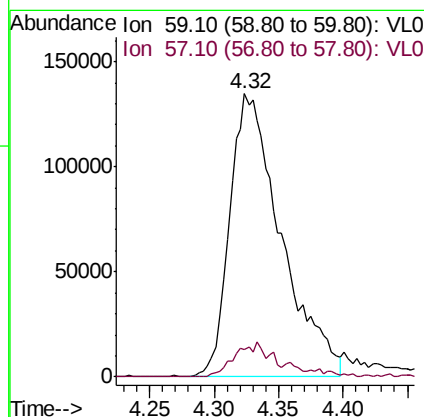
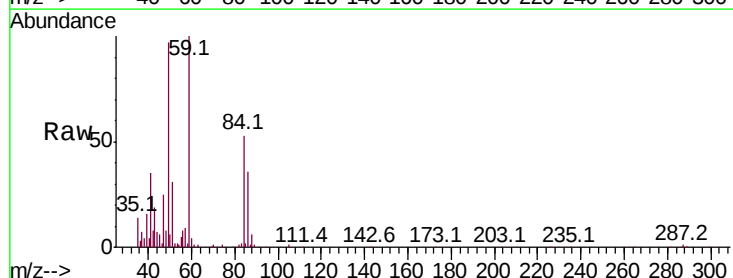
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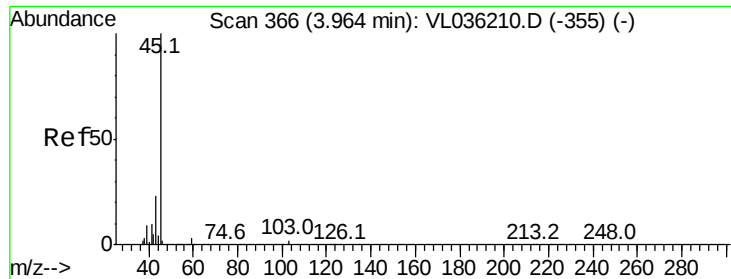
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#17
tert-Butyl alcohol
Concen: 2.469 ppbv
RT: 4.32 min Scan# 478
Delta R.T. 0.04 min
Lab File: VL036229.D
Acq: 13 Jan 2021 17:27

Tgt Ion: 59 Resp: 372173
Ion Ratio Lower Upper
59 100
57 11.2 9.2 13.8





#19

Isopropyl Alcohol

Concen: 2.124 ppbv m

RT: 4.01 min Scan# 379

Delta R.T. 0.04 min

Lab File: VL036229.D

Acq: 13 Jan 2021 17:27

Instrument :

MSVOA_L

ClientSampleId :

0121-SS3

Tot Ion: 45 Resp: 233858

Ion Ratio Lower Upper

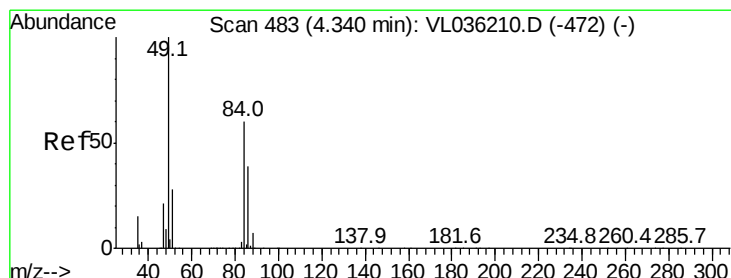
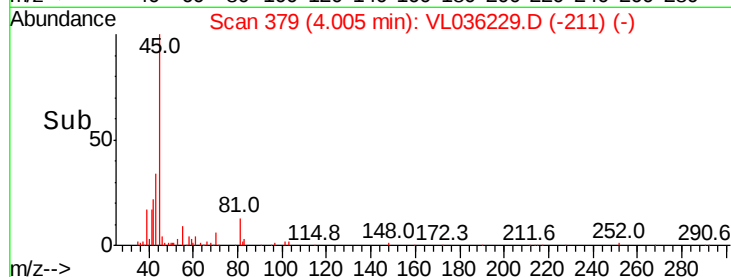
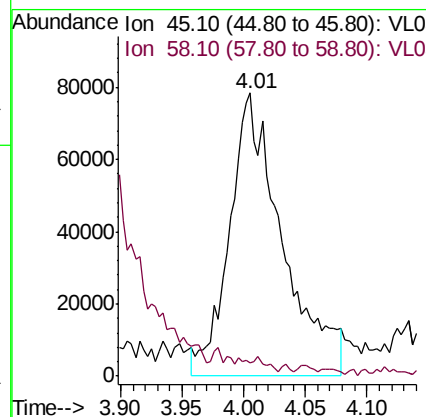
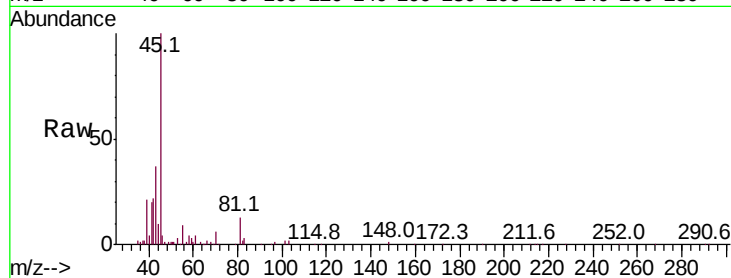
45 100

58 0.0 1.9 2.9#

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#20

Methylene Chloride

Concen: 34.828 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.01 min

Lab File: VL036229.D

Acq: 13 Jan 2021 17:27

Tgt Ion: 84 Resp: 2030314

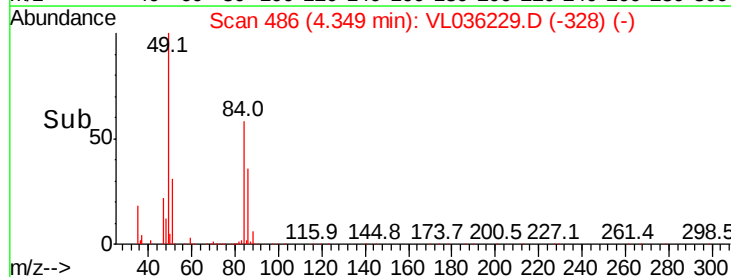
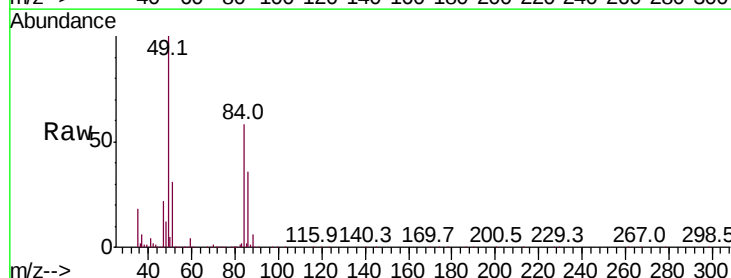
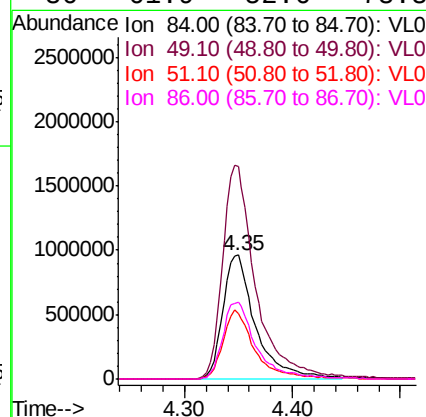
Ion Ratio Lower Upper

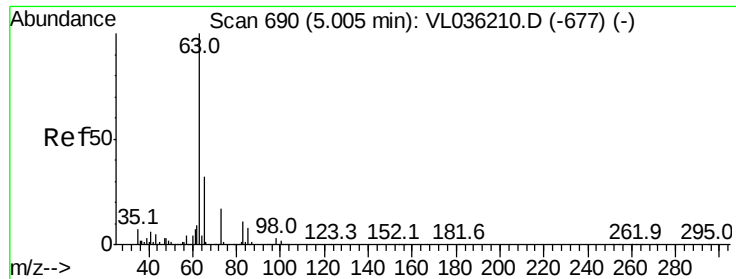
84 100

49 171.6 134.1 201.1

51 52.5 37.4 56.0

86 61.9 52.6 78.8





#24

1,1-Dichloroethane

Concen: 2.312 ppbv m

RT: 5.01 min Scan# 693

Delta R.T. 0.01 min

Lab File: VL036229.D

Acq: 13 Jan 2021 17:27

Instrument :

MSVOA_L

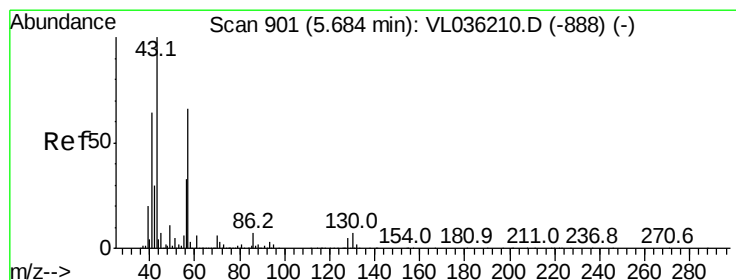
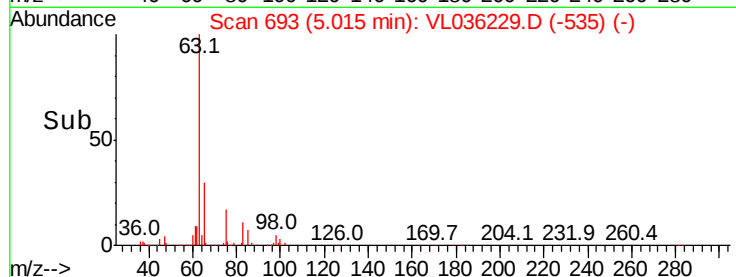
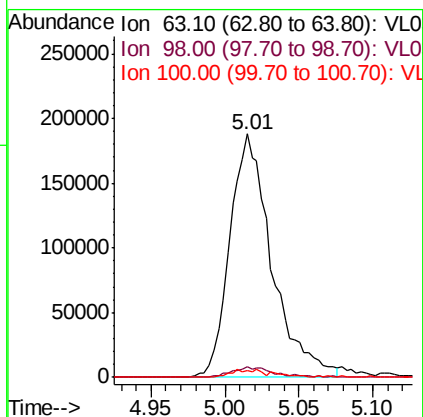
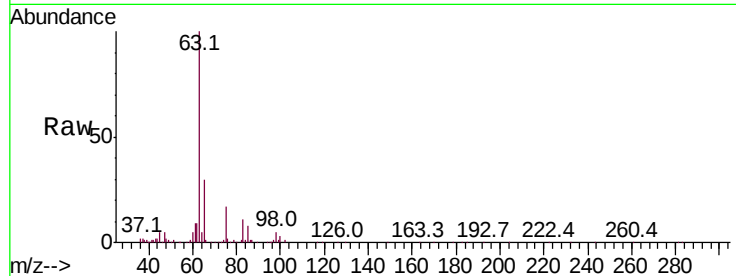
ClientSampleId :

0121-SS3

Tot Ion	Ratio	Resp	Lower	Upper
63	100	370730		
98	4.6	1.7	5.1	
100	2.6	1.1	3.1	

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#26

Hexane

Concen: 17.248 ppbv

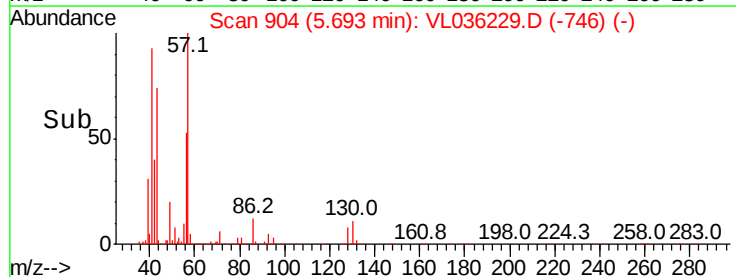
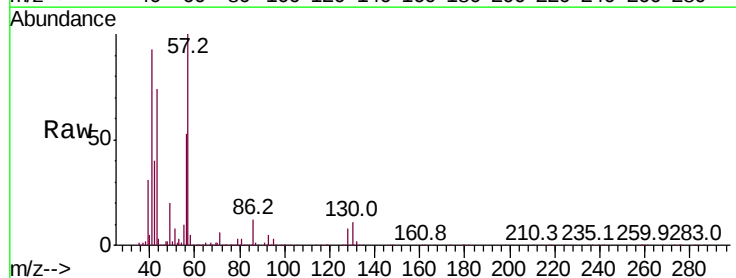
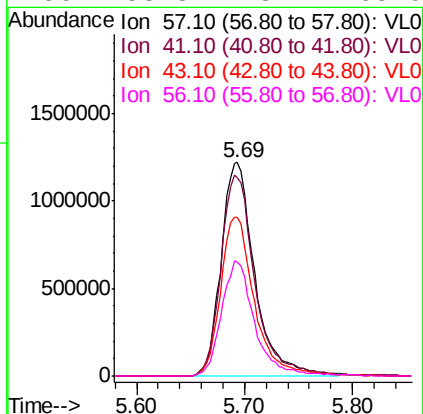
RT: 5.69 min Scan# 904

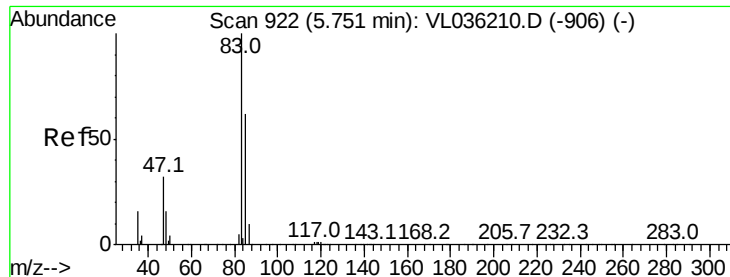
Delta R.T. 0.01 min

Lab File: VL036229.D

Acq: 13 Jan 2021 17:27

Tgt Ion	Ratio	Resp	Lower	Upper
57	100	2633267		
41	96.6	83.0	124.6	
43	75.5	202.4	303.6#	
56	53.8	43.4	65.0	





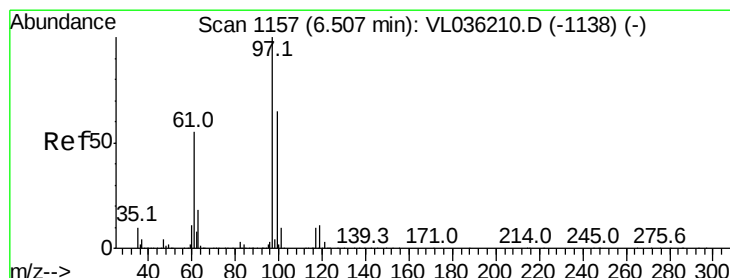
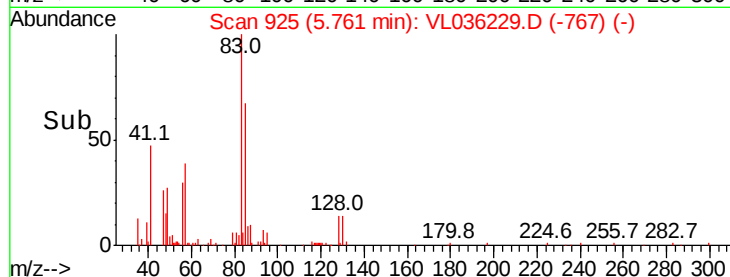
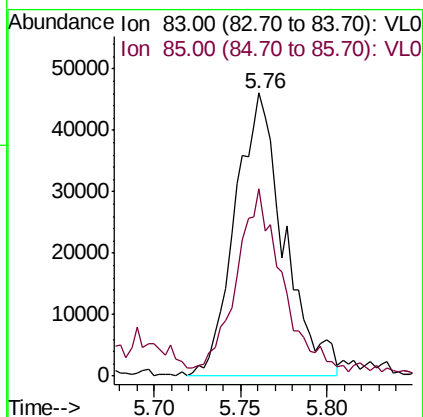
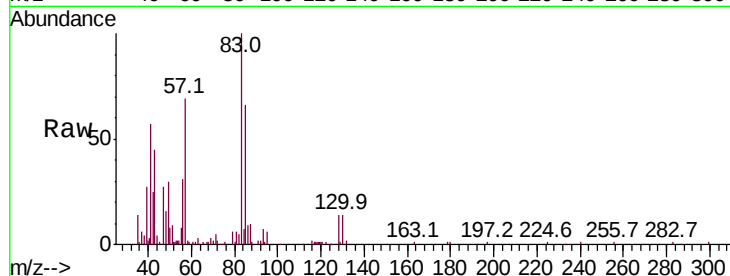
#29
Chloroform
Concen: 0.414 ppbv m
RT: 5.76 min Scan# 925
Delta R.T. 0.01 min
Lab File: VL036229.D
Acq: 13 Jan 2021 17:27

Instrument :
MSVOA_L
ClientSampled :
0121-SS3

Tot Ion	83	Resp	90557
Ion Ratio	100	Lower	Upper
85	66.3	49.3	73.9

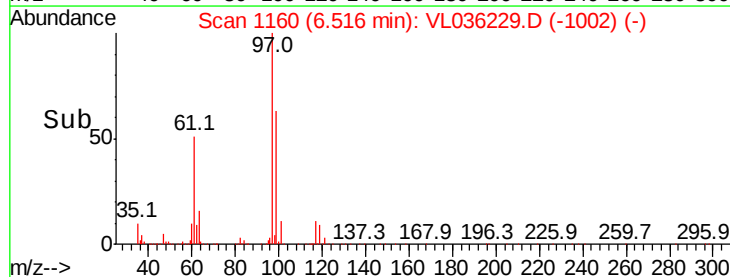
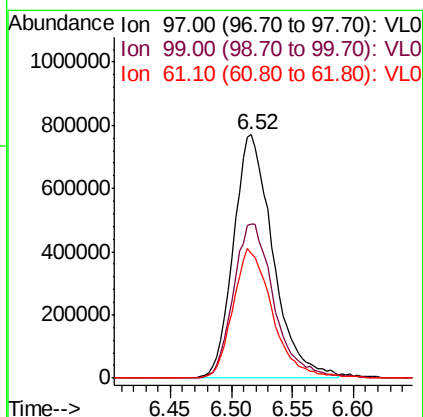
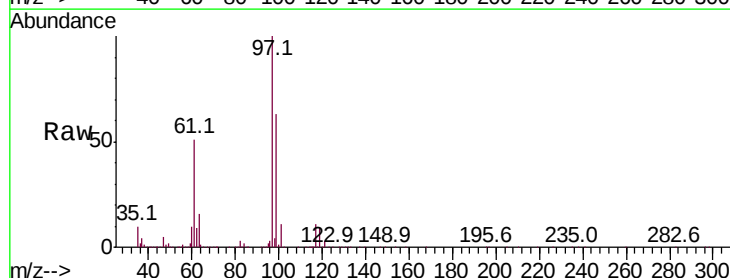
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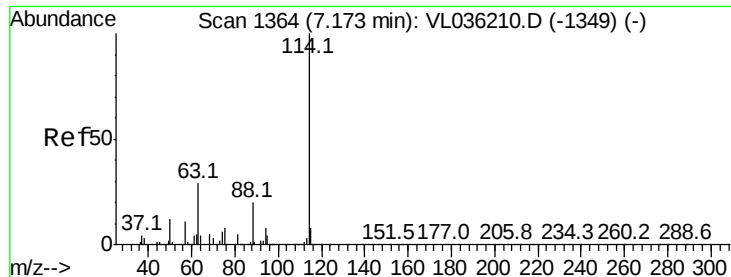
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 8.176 ppbv
RT: 6.52 min Scan# 1160
Delta R.T. 0.01 min
Lab File: VL036229.D
Acq: 13 Jan 2021 17:27

Tgt Ion	97	Resp	1728626
Ion Ratio	100	Lower	Upper
99	65.9	52.0	78.0
61	53.4	43.6	65.4





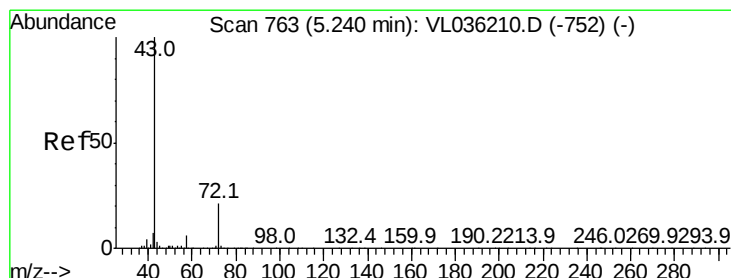
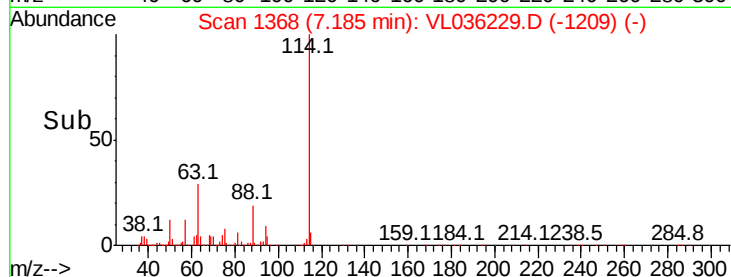
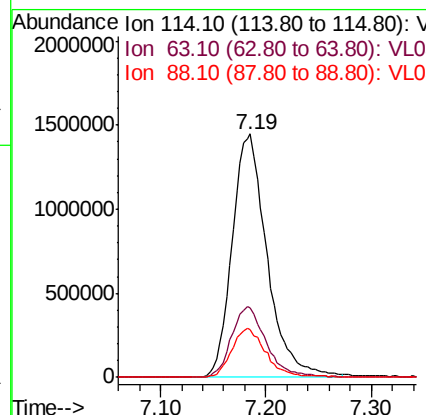
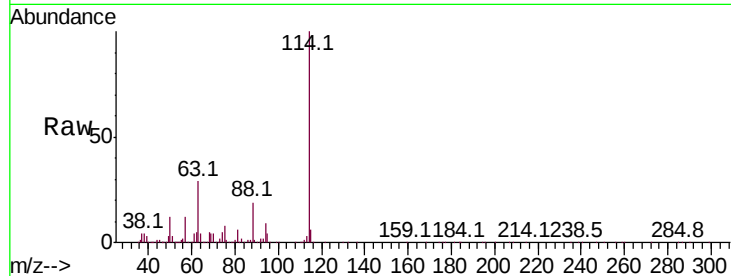
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1368
Delta R.T. 0.01 min
Lab File: VL036229.D
Acq: 13 Jan 2021 17:27

Instrument :
MSVOA_L
ClientSampleId :
0121-SS3

Tot Ion	Ratio	Lower	Upper
114	100		
63	29.2	24.7	37.1
88	20.1	16.6	24.8

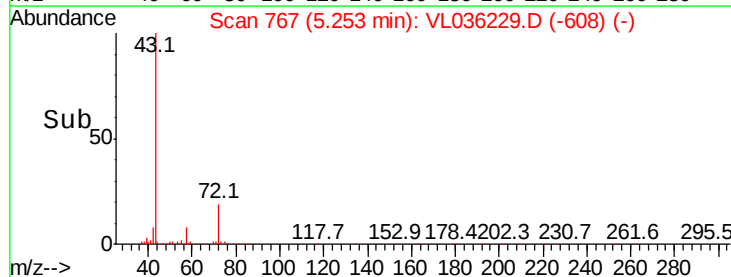
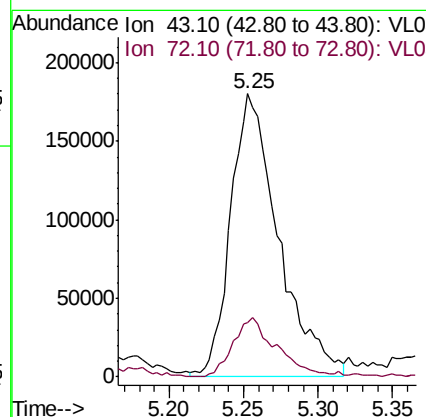
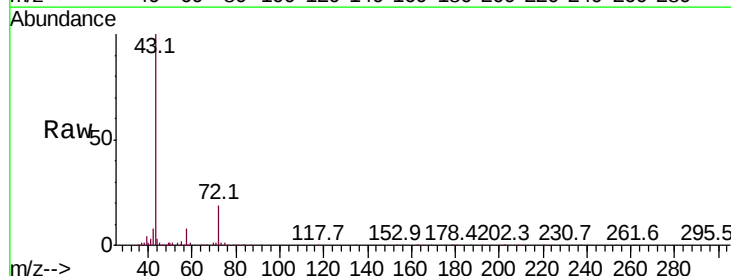
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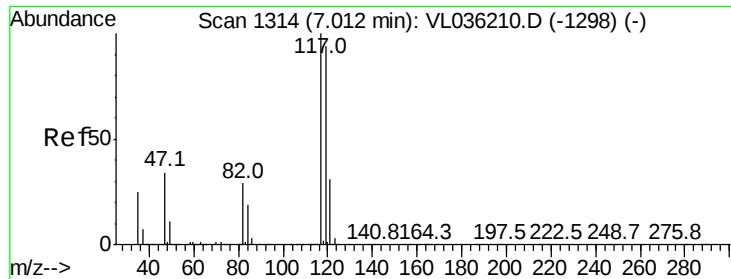
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#34
2-Butanone
Concen: 1.649 ppbv m
RT: 5.25 min Scan# 767
Delta R.T. 0.01 min
Lab File: VL036229.D
Acq: 13 Jan 2021 17:27

Tgt Ion	Ratio	Lower	Upper
43	100		
72	19.1	16.1	24.1





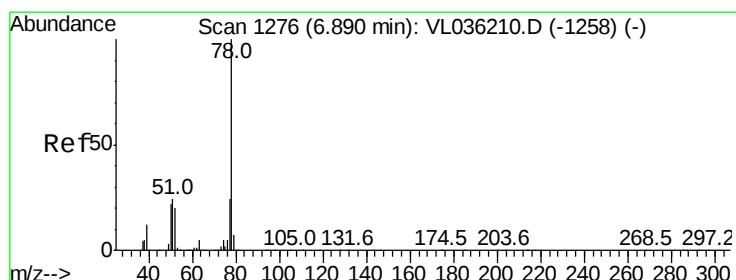
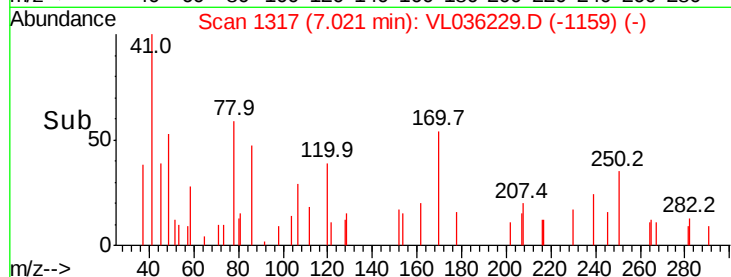
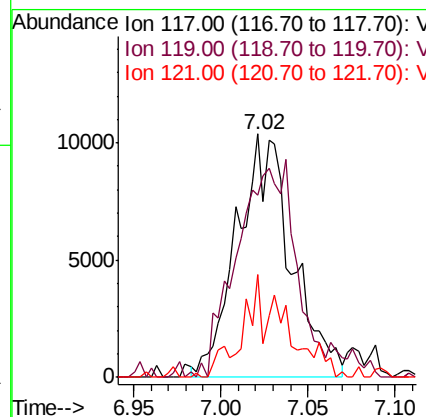
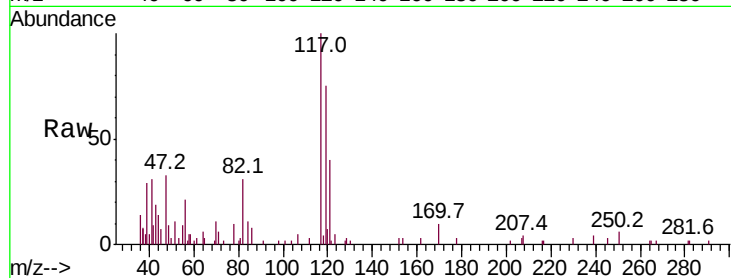
#35
Carbon Tetrachloride
Concen: 0.108 ppbv m
RT: 7.02 min Scan# 1317
Delta R.T. 0.01 min
Lab File: VL036229.D
Acq: 13 Jan 2021 17:27

Instrument :
MSVOA_L
ClientSampleId :
0121-SS3

Tot Ion	Ratio	Lower	Upper
117	100		
119	74.7	74.9	112.3#
121	40.3	25.0	37.6#

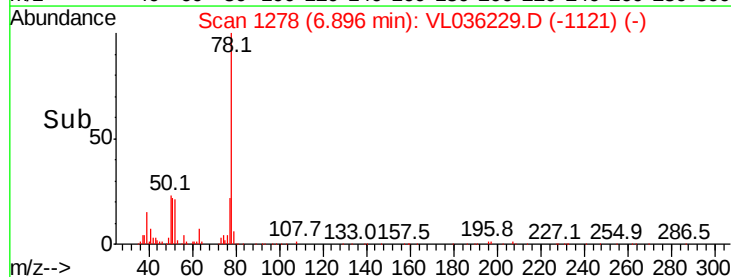
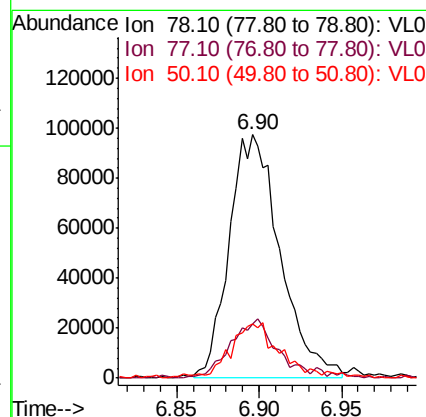
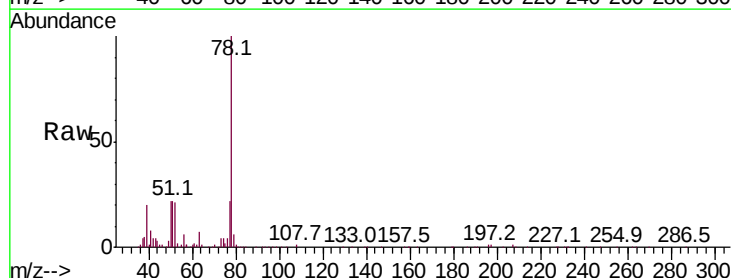
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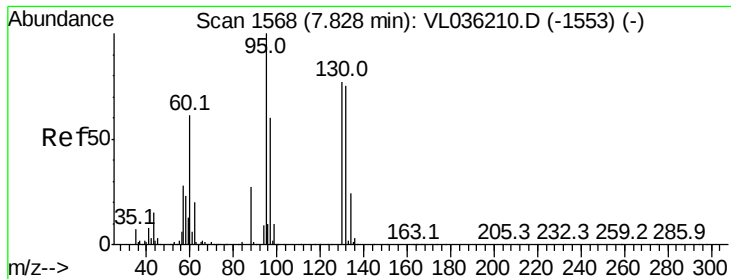
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#36
Benzene
Concen: 0.687 ppbv m
RT: 6.90 min Scan# 1278
Delta R.T. 0.01 min
Lab File: VL036229.D
Acq: 13 Jan 2021 17:27

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.5	19.4	29.0
50	22.4	17.4	26.2





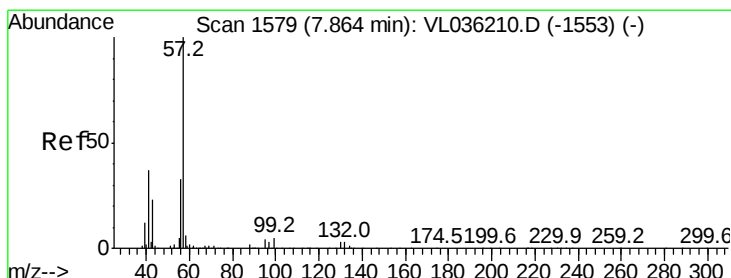
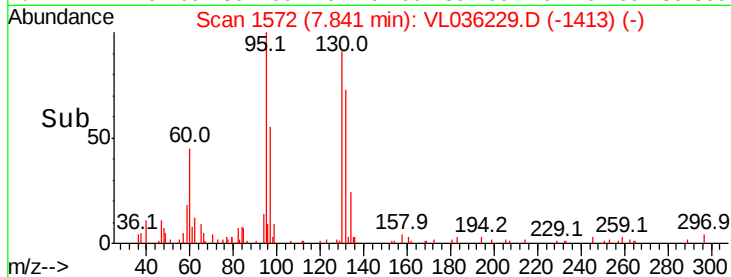
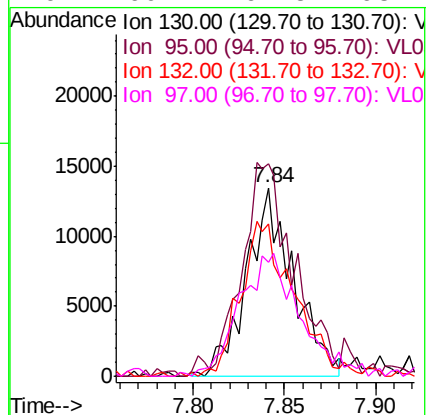
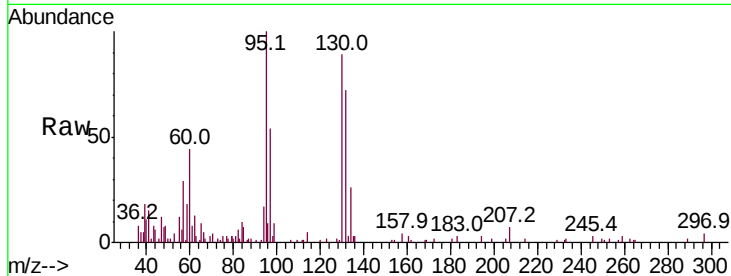
#38
 Trichloroethene
 Concen: 0.211 ppbv m
 RT: 7.84 min Scan# 1572
 Delta R.T. 0.01 min
 Lab File: VL036229.D
 Acq: 13 Jan 2021 17:27

Instrument :
 MSVOA_L
 ClientSampleId :
 0121-SS3

Tot Ion	Ratio	Resp	Lower	Upper
130	100	23815		
95	112.8	103.9	155.9	
132	80.9	77.4	116.2	
97	60.4	62.5	93.7#	

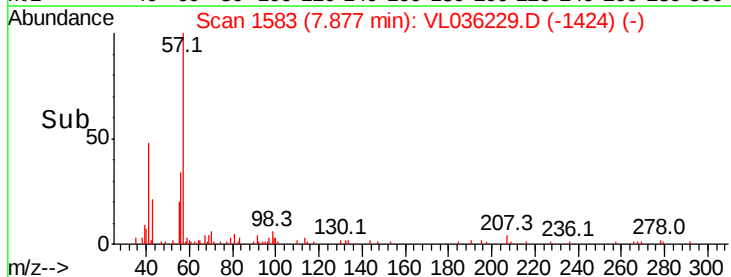
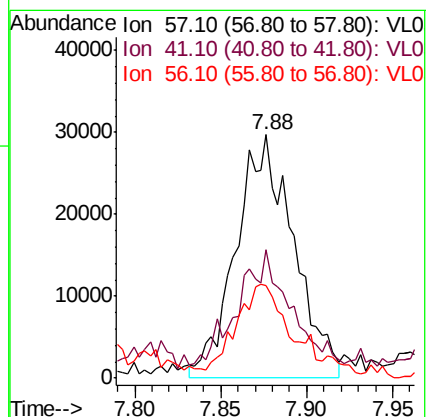
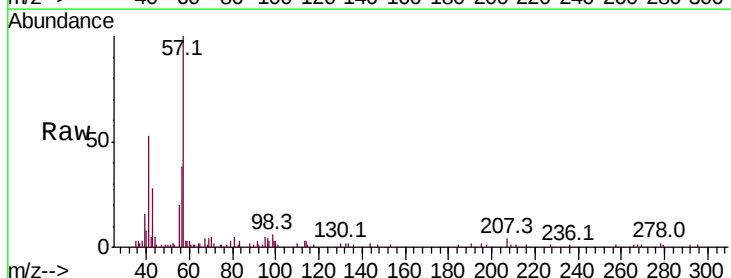
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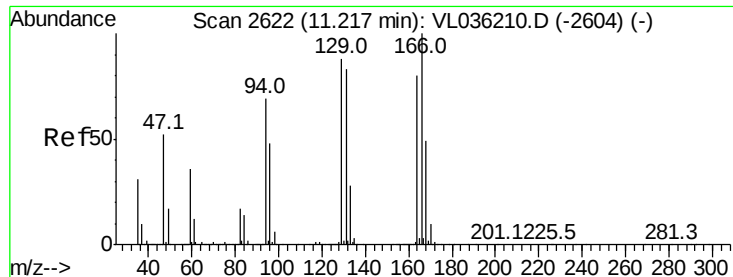
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#44
 2,2,4-Trimethylpentane
 Concen: 0.123 ppbv m
 RT: 7.88 min Scan# 1583
 Delta R.T. 0.01 min
 Lab File: VL036229.D
 Acq: 13 Jan 2021 17:27

Tgt Ion	Ratio	Resp	Lower	Upper
57	100	68960		
41	57.6	28.5	42.7#	
56	41.4	25.5	38.3#	





#52

Tetrachloroethene

Concen: 1.095 ppbv

RT: 11.23 min Scan# 2627

Delta R.T. 0.02 min

Lab File: VL036229.D

Acq: 13 Jan 2021 17:27

Instrument :

MSVOA_L

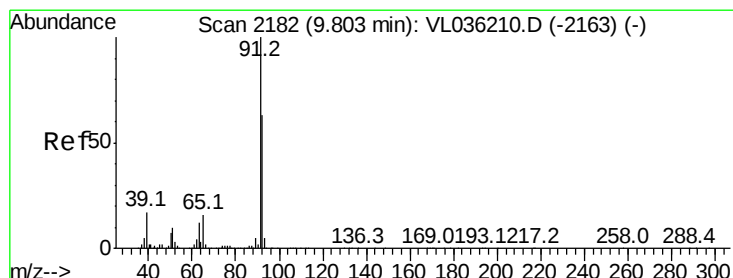
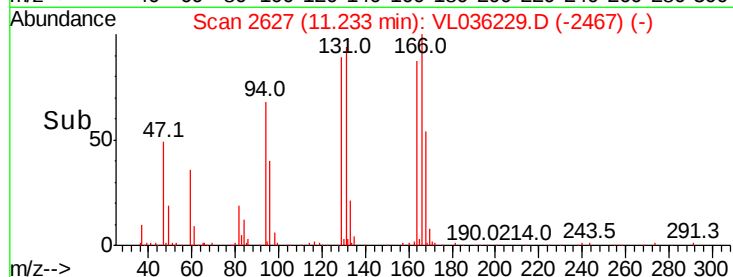
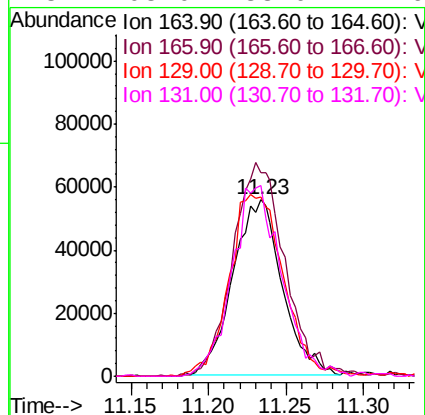
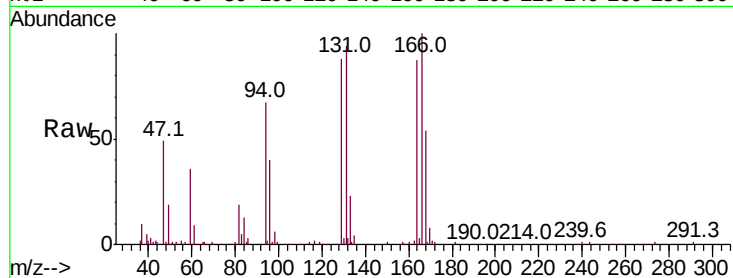
ClientSampleId :

0121-SS3

Tot Ion	Ratio	Lower	Upper
164	100		
166	115.1	99.9	149.9
129	99.8	88.2	132.4
131	108.0	83.0	124.6

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#53

Toluene

Concen: 1.241 ppbv

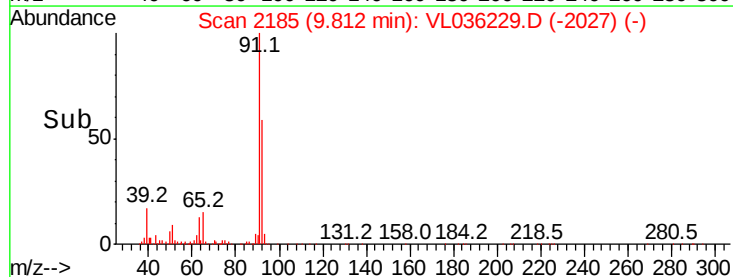
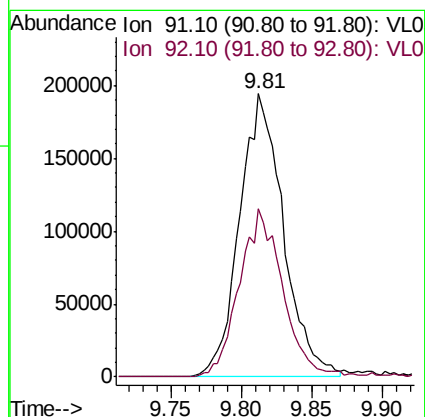
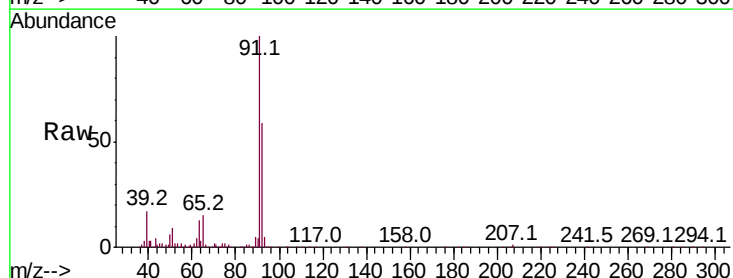
RT: 9.81 min Scan# 2185

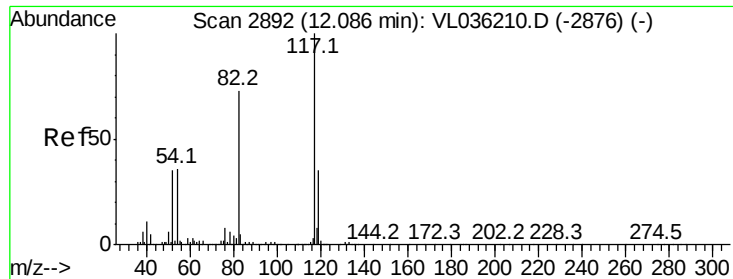
Delta R.T. 0.01 min

Lab File: VL036229.D

Acq: 13 Jan 2021 17:27

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.4	48.5	72.7





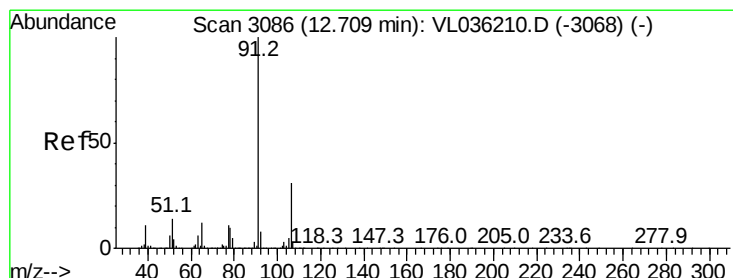
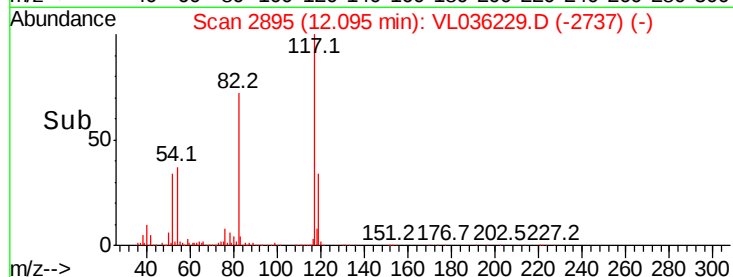
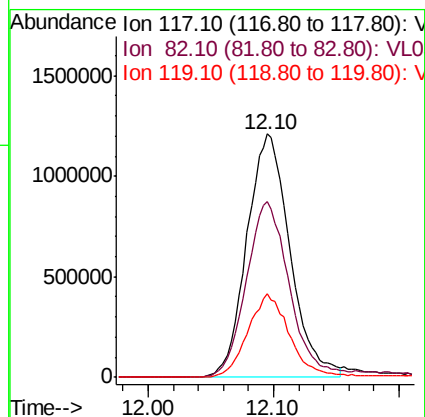
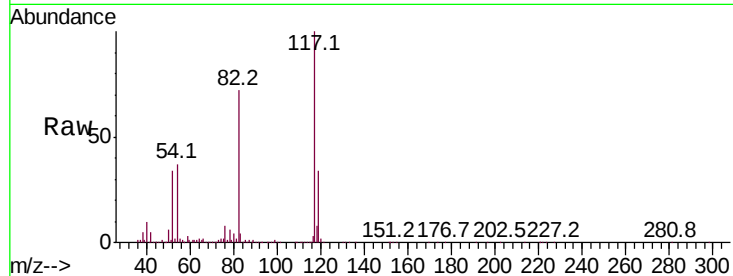
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2895
Delta R.T. 0.01 min
Lab File: VL036229.D
Acq: 13 Jan 2021 17:27

Instrument :
MSVOA_L
ClientSampleId :
0121-SS3

Tot Ion	Ratio	Lower	Upper
117	100		
82	76.0	59.7	89.5
119	34.1	28.6	43.0

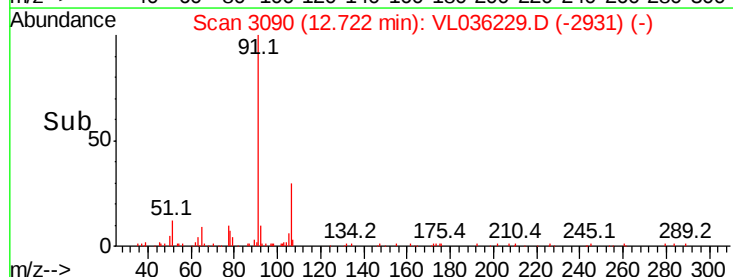
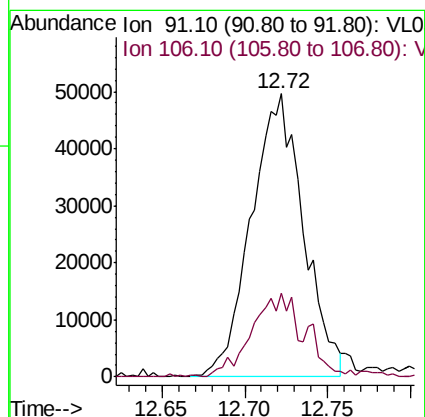
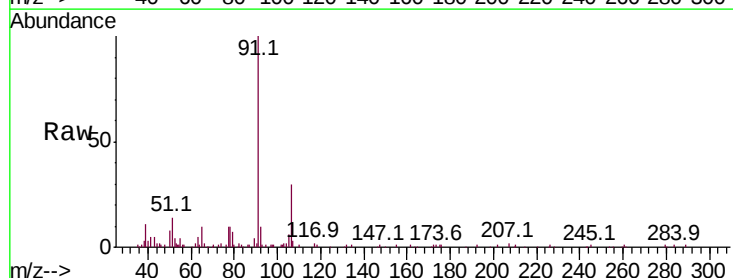
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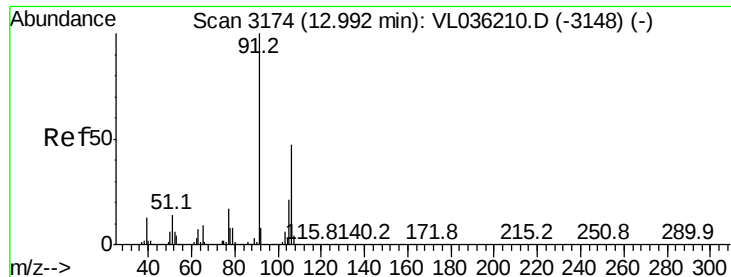
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#58
Ethyl Benzene
Concen: 0.253 ppbv
RT: 12.72 min Scan# 3090
Delta R.T. 0.01 min
Lab File: VL036229.D
Acq: 13 Jan 2021 17:27

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.0	24.8	37.2





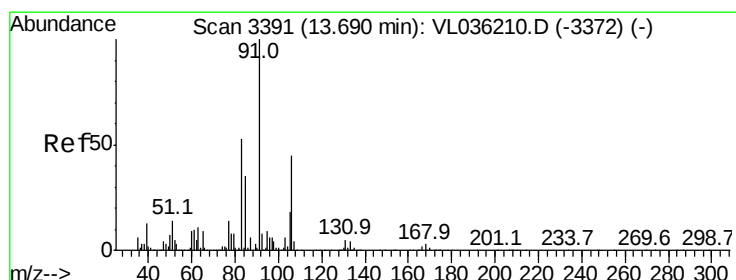
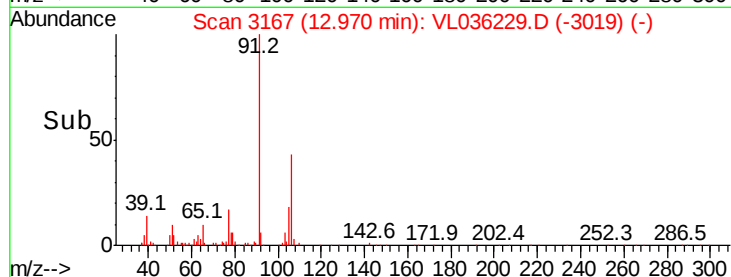
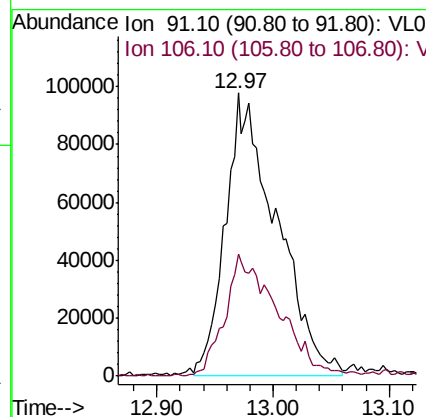
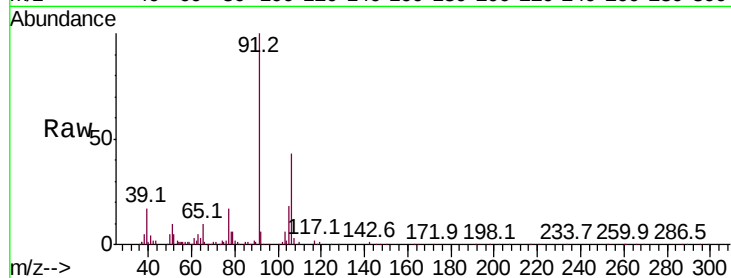
#59
m/p-Xylene
Concen: 0.812 ppbv m
RT: 12.97 min Scan# 3167
Delta R.T. -0.02 min
Lab File: VL036229.D
Acq: 13 Jan 2021 17:27

Instrument :
MSVOA_L
ClientSampleId :
0121-SS3

Tot Ion: 91 Resp: 299616
Ion Ratio Lower Upper
91 100
106 0.0 34.6 51.8#

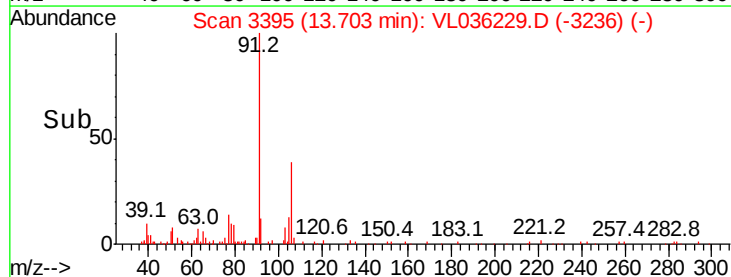
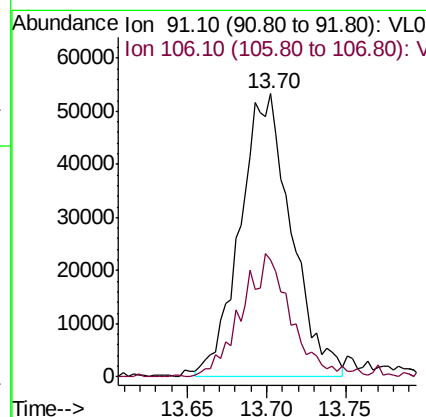
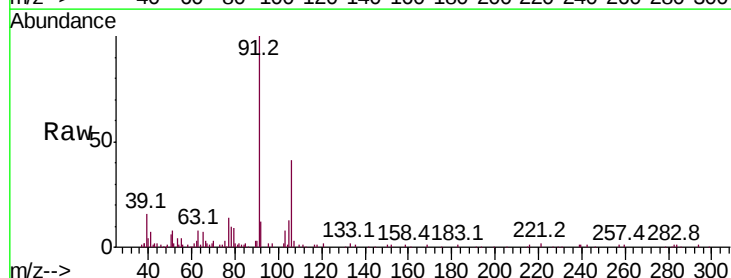
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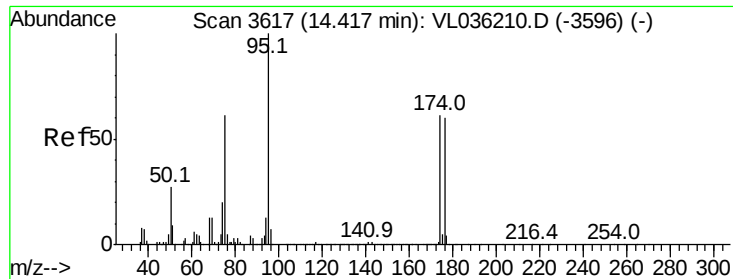
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#60
o-Xylene
Concen: 0.340 ppbv m
RT: 13.70 min Scan# 3395
Delta R.T. 0.01 min
Lab File: VL036229.D
Acq: 13 Jan 2021 17:27

Tgt Ion: 91 Resp: 120792
Ion Ratio Lower Upper
91 100
106 42.1 21.9 65.8





#68

1-Bromo-4-Fluorobenzene

Concen: 9.960 ppbv

RT: 14.42 min Scan# 3619

Delta R.T. 0.01 min

Lab File: VL036229.D

Acq: 13 Jan 2021 17:27

Instrument :

MSVOA_L

ClientSampleId :

0121-SS3

Tot Ion: 95 Resp: 2384759

Ion Ratio Lower Upper

95 100

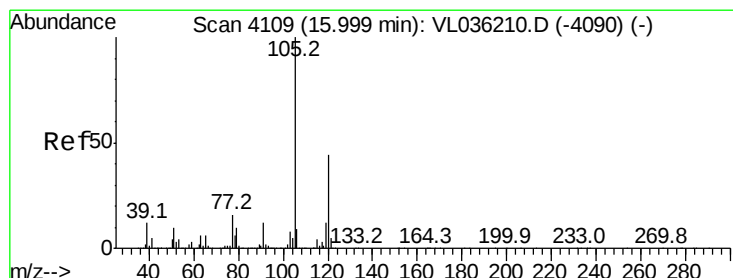
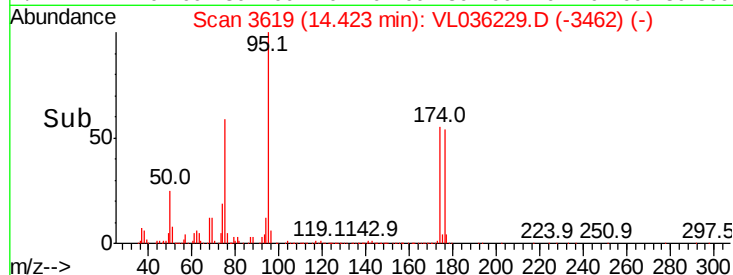
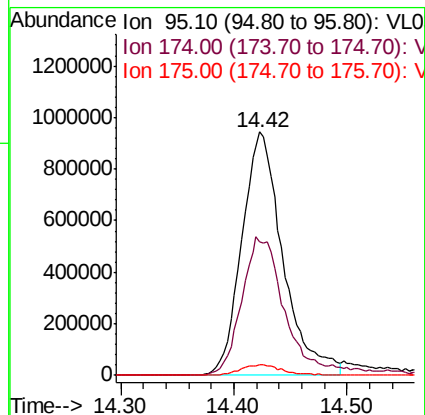
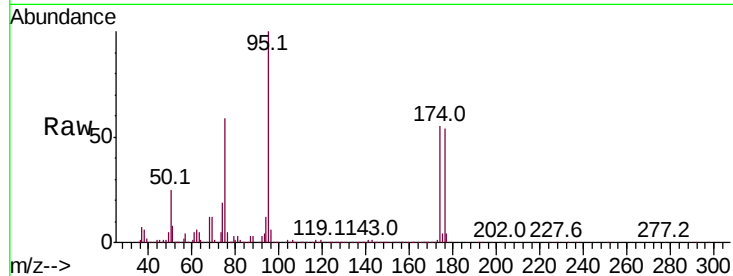
174 62.9 49.4 74.0

175 4.7 3.8 5.8

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#73

1,3,5-Trimethylbenzene

Concen: 0.146 ppbv m

RT: 16.00 min Scan# 4110

Delta R.T. 0.00 min

Lab File: VL036229.D

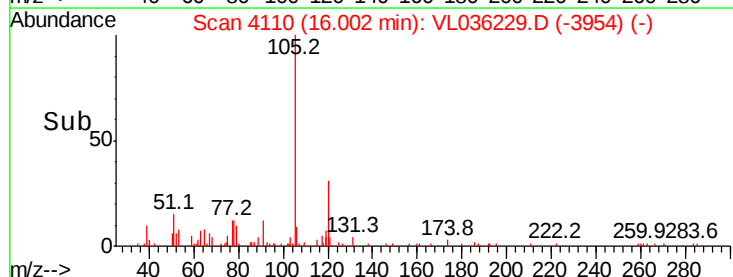
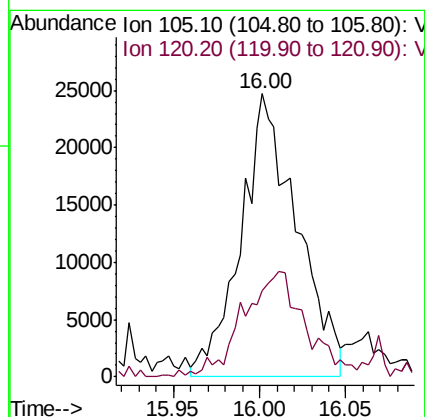
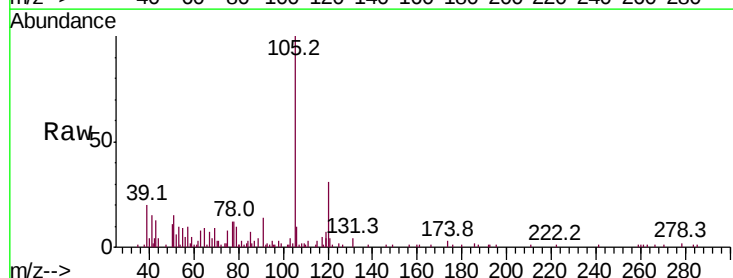
Acq: 13 Jan 2021 17:27

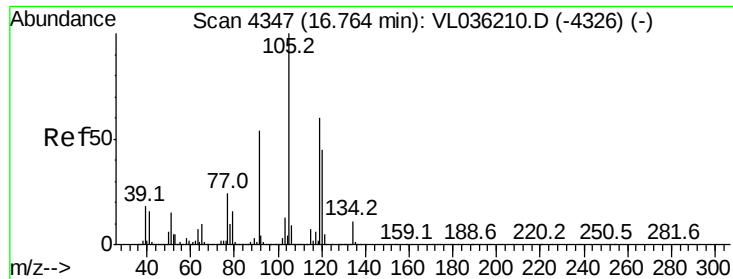
Tgt Ion: 105 Resp: 55931

Ion Ratio Lower Upper

105 100

120 30.6 35.5 53.3#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.470 ppbv
 RT: 16.77 min Scan# 4349
 Delta R.T. 0.01 min
 Lab File: VL036229.D
 Acq: 13 Jan 2021 17:27

Instrument :
 MSVOA_L
 ClientSampleId :
 0121-SS3

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	41.0	36.2	54.2
91	14.2	43.3	64.9#
77	12.8	19.1	28.7#

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