

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011321\
 Data File : VL036235.D
 Acq On : 13 Jan 2021 21:40
 Operator : SY/AP
 Sample : M1070-01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
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 1/19/2021 4:35:07 PM

Quant Time: Jan 19 06:13:17 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	1468710	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3064929	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2646465	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2213576	10.11	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	36252	0.184	ppbv	89
3) Chlorodifluoromethane	2.99	51	106033	0.588	ppbv #	90
4) Chloromethane	3.15	50	47447m	0.532	ppbv	
9) Propene	3.02	41	106536m	1.240	ppbv	
11) Trichlorofluoromethane	3.96	101	52146m	0.261	ppbv	
13) Ethanol	3.61	45	547277m	40.576	ppbv	
15) Acetone	3.85	43	700895	3.897	ppbv	96
19) Isopropyl Alcohol	3.98	45	183110m	1.689	ppbv	
20) Methylene Chloride	4.35	84	395772m	6.894	ppbv	
26) Hexane	5.69	57	435608	2.897	ppbv #	39
35) Carbon Tetrachloride	7.01	117	15269m	0.079	ppbv	
36) Benzene	6.89	78	99578	0.355	ppbv	98
44) 2,2,4-Trimethylpentane	7.87	57	43593m	0.085	ppbv	
52) Tetrachloroethene	11.24	164	13609m	0.132	ppbv	
53) Toluene	9.81	91	191296	0.609	ppbv	99
59) m/p-Xylene	12.98	91	59022m	0.175	ppbv	

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

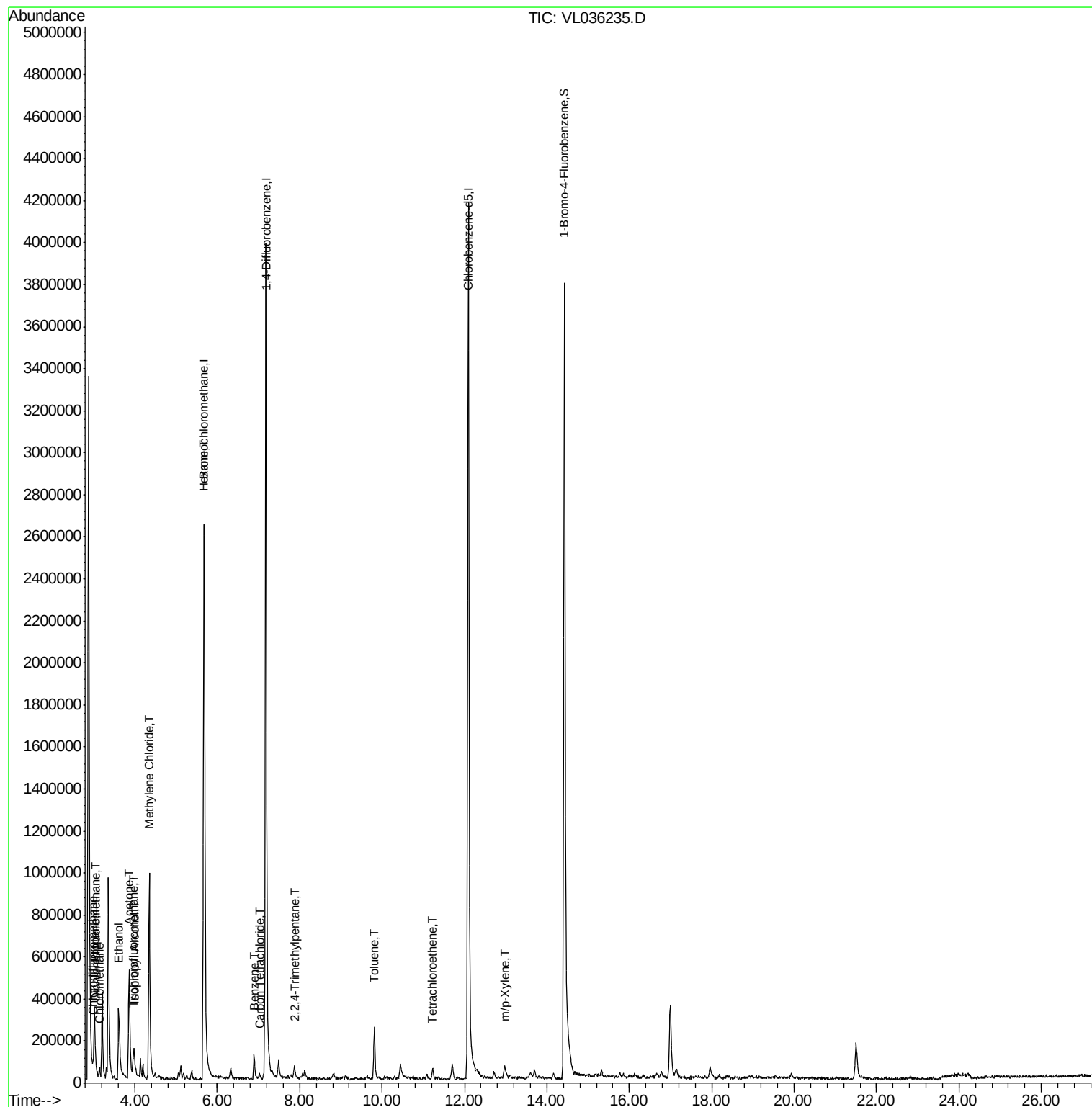
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011321\
Data File : VL036235.D
Acq On : 13 Jan 2021 21:40
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Misc : 400ml/MSVOA L
ALS Vial : 11 Sample Multiplier: 1

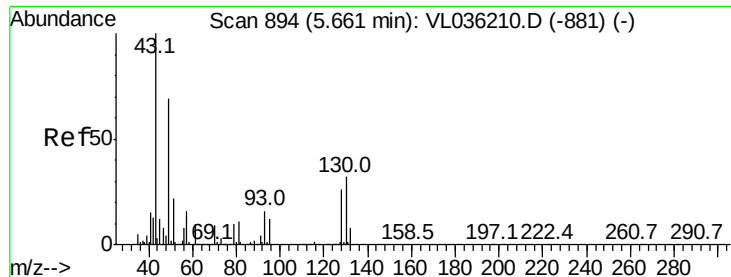
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Manual Integrations
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Quant Time: Jan 19 06:13:17 2021
Quant Method : Z:\VOASRV\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# 896

Delta R.T. 0.01 min

Lab File: VL036235.D

Acq: 13 Jan 2021 21:40

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tot Ion: 49 Resp: 1468710

Ion Ratio Lower Upper

49 100

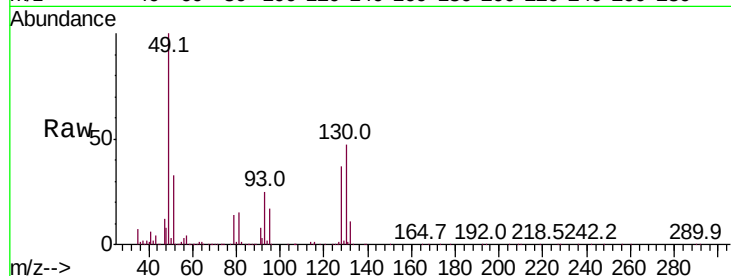
128 39.2 20.1 60.2

130 50.3 25.3 75.9

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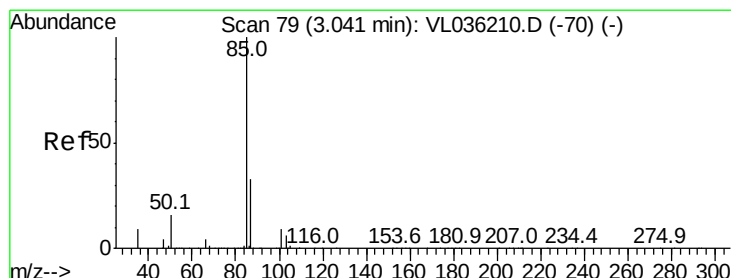
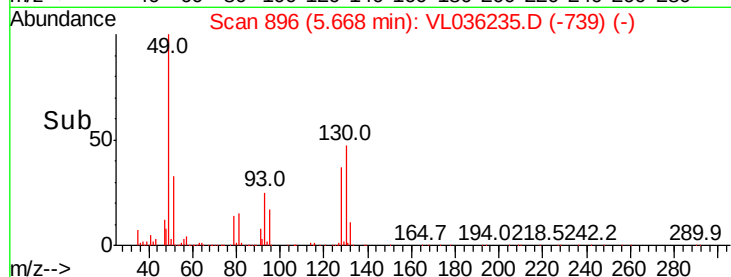
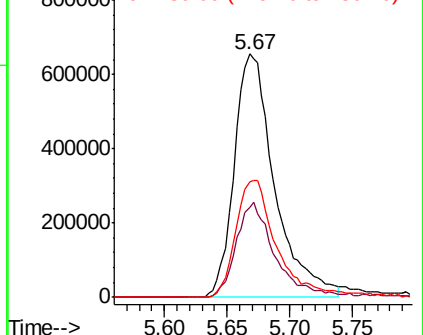
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.184 ppbv

RT: 3.05 min Scan# 81

Delta R.T. 0.01 min

Lab File: VL036235.D

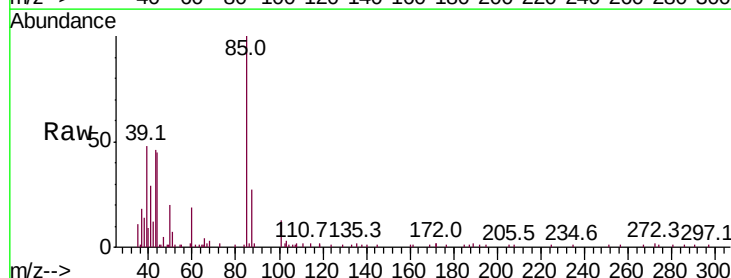
Acq: 13 Jan 2021 21:40

Tgt Ion: 85 Resp: 36252

Ion Ratio Lower Upper

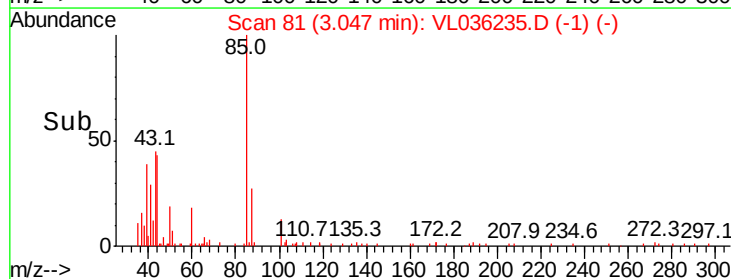
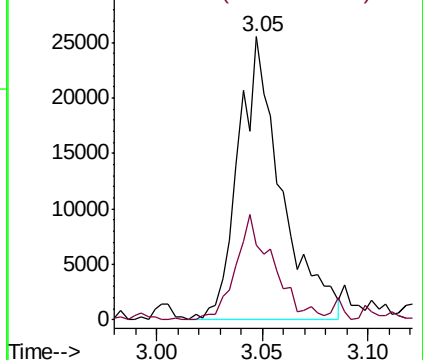
85 100

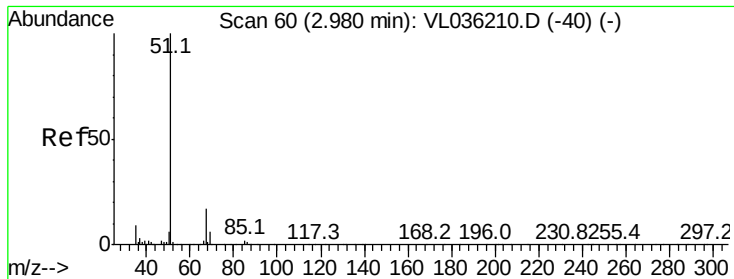
87 26.6 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.588 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.01 min

Lab File: VL036235.D

Acq: 13 Jan 2021 21:40

Instrument :

MSVOA_L

ClientSampled :

IA1DUP

Tot Ion: 51 Resp: 106033

Ion Ratio Lower Upper

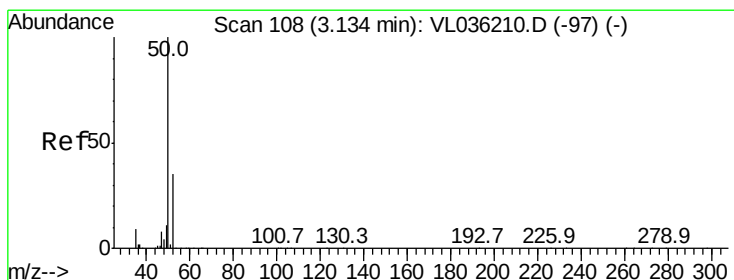
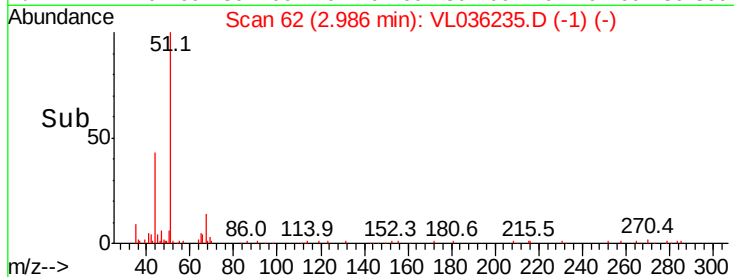
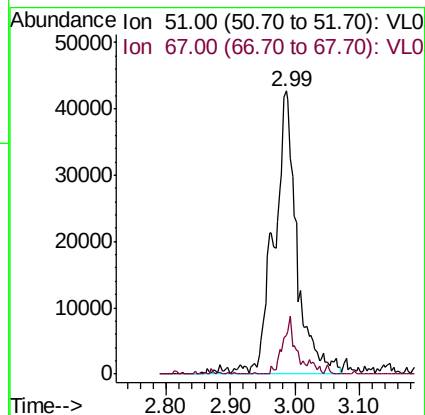
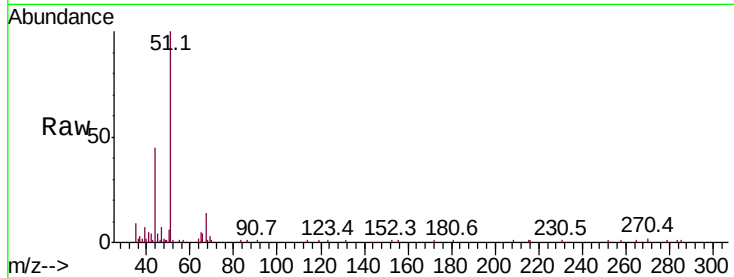
51 100

67 13.0 14.0 21.0#

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#4

Chloromethane

Concen: 0.532 ppbv m

RT: 3.15 min Scan# 112

Delta R.T. 0.01 min

Lab File: VL036235.D

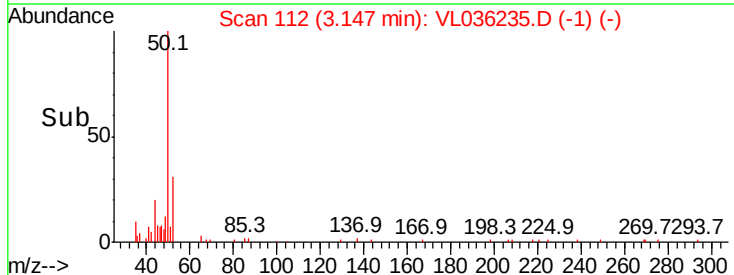
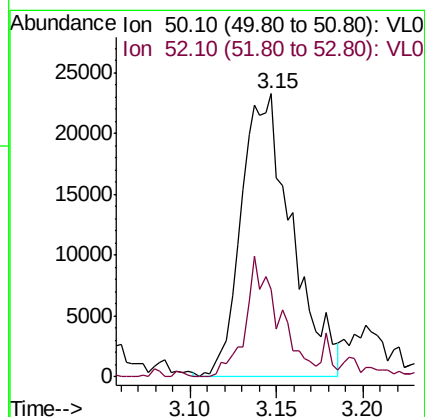
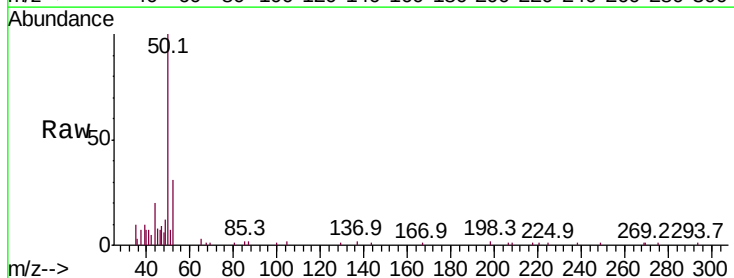
Acq: 13 Jan 2021 21:40

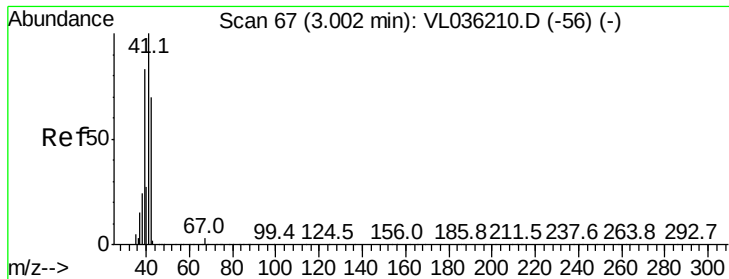
Tgt Ion: 50 Resp: 47447

Ion Ratio Lower Upper

50 100

52 30.9 27.8 41.8





#9

Propene

Concen: 1.240 ppbv m

RT: 3.02 min Scan# 73

Delta R.T. 0.02 min

Lab File: VL036235.D

Acq: 13 Jan 2021 21:40

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tot Ion: 41 Resp: 106536

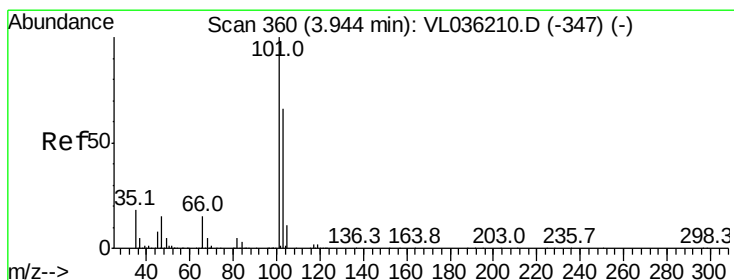
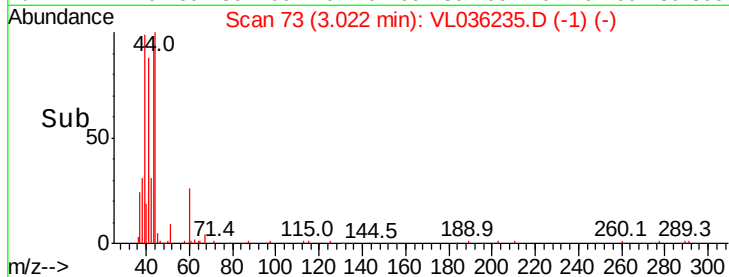
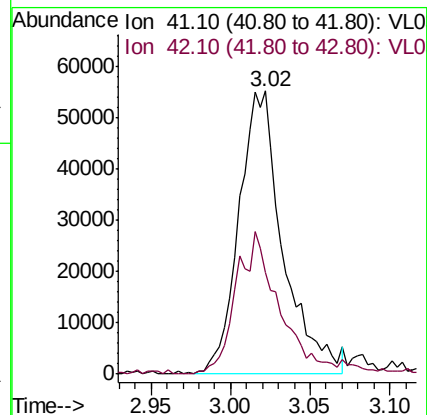
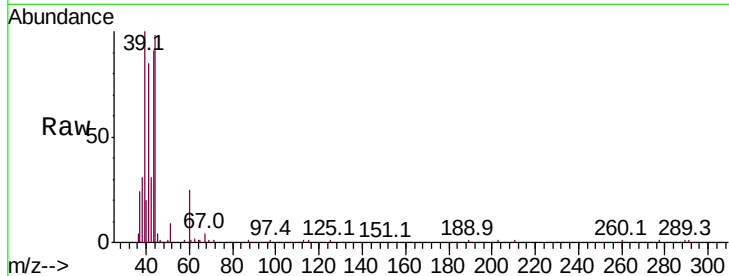
Ion Ratio Lower Upper

41 100

42 87.4 57.1 85.7#

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#11

Trichlorofluoromethane

Concen: 0.261 ppbv m

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VL036235.D

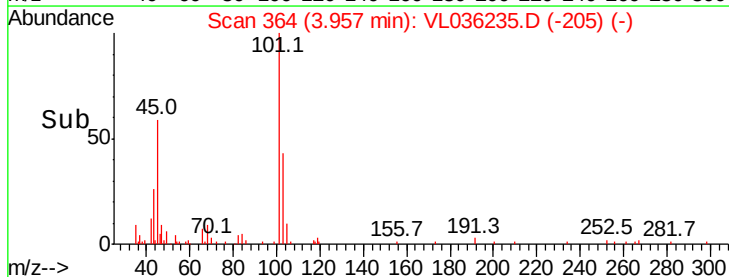
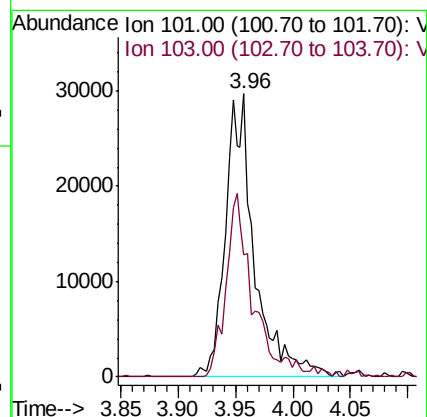
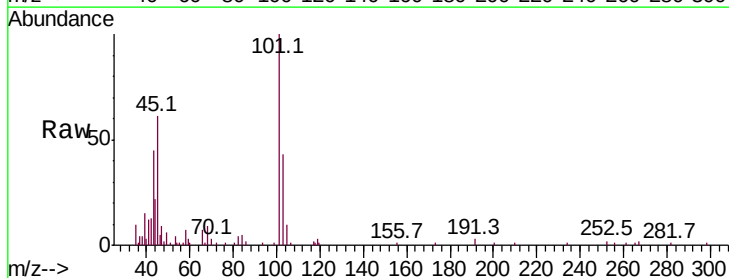
Acq: 13 Jan 2021 21:40

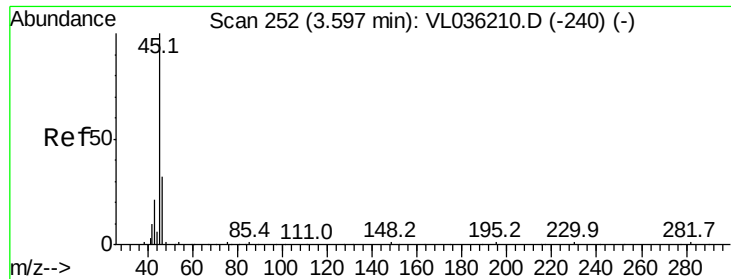
Tgt Ion: 101 Resp: 52146

Ion Ratio Lower Upper

101 100

103 43.2 52.6 78.8#





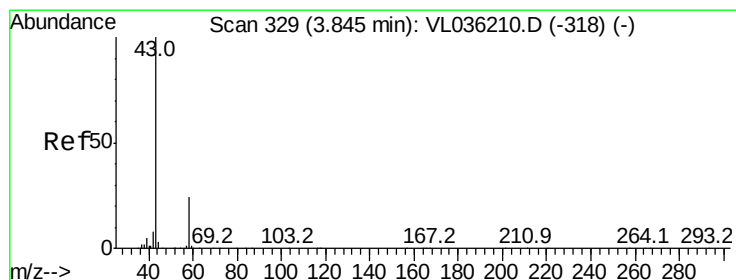
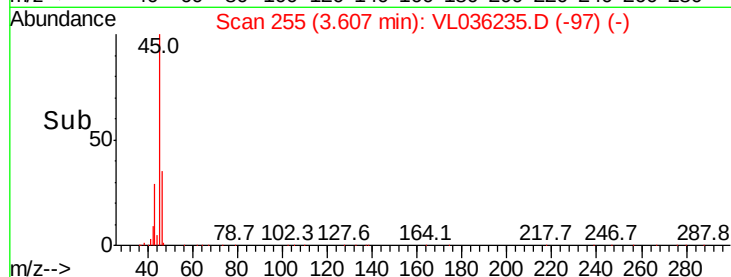
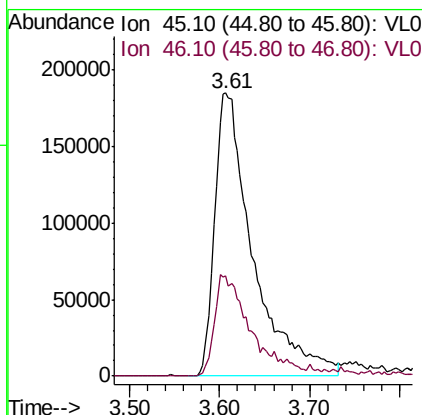
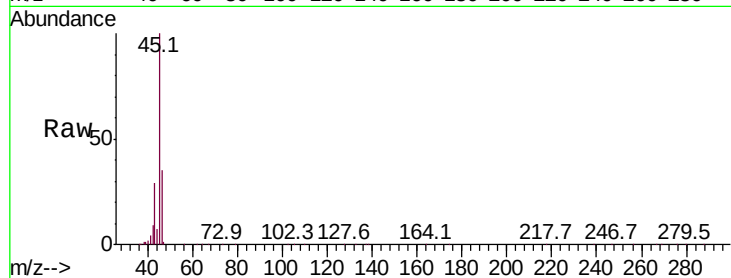
#13
Ethanol
Concen: 40.576 ppbv m
RT: 3.61 min Scan# 255
Delta R.T. 0.01 min
Lab File: VL036235.D
Acq: 13 Jan 2021 21:40

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tot Ion: 45 Resp: 547277
Ion Ratio Lower Upper
45 100
46 35.8 19.2 77.0

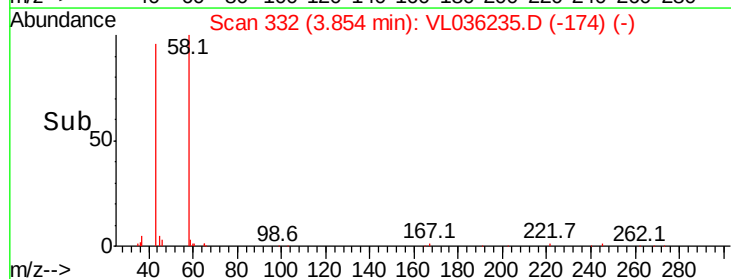
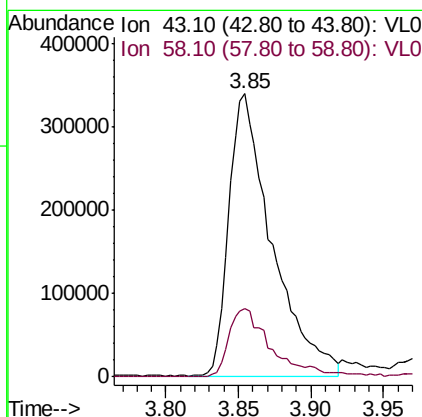
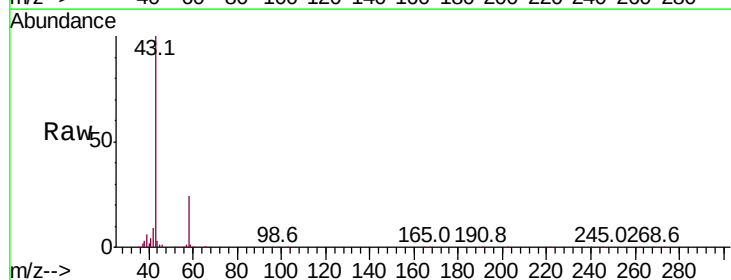
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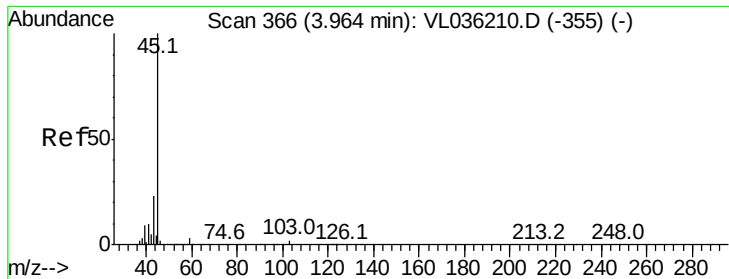
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#15
Acetone
Concen: 3.897 ppbv
RT: 3.85 min Scan# 332
Delta R.T. 0.01 min
Lab File: VL036235.D
Acq: 13 Jan 2021 21:40

Tgt Ion: 43 Resp: 700895
Ion Ratio Lower Upper
43 100
58 24.1 20.9 31.3





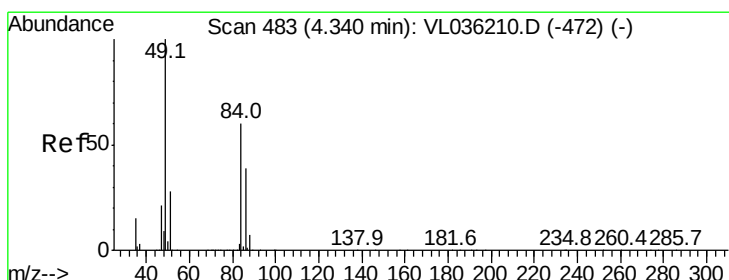
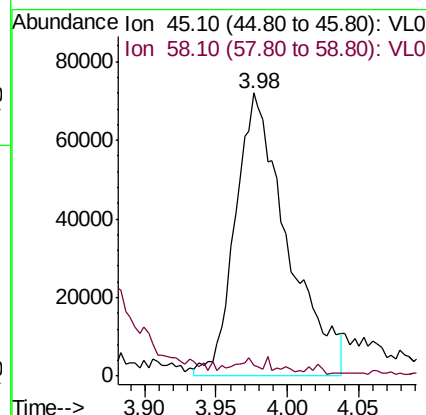
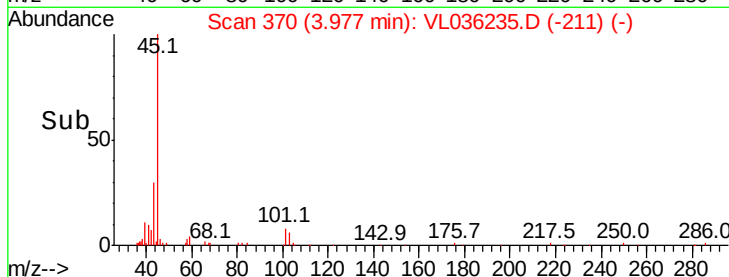
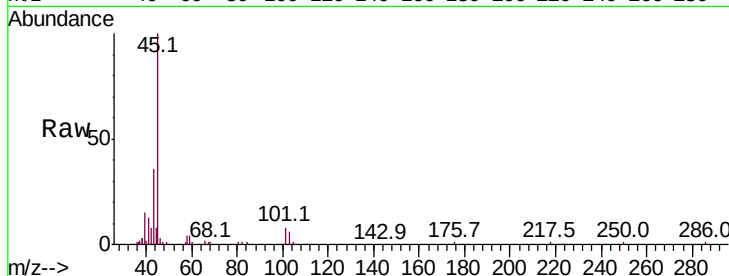
#19
Isopropyl Alcohol
Concen: 1.689 ppbv m
RT: 3.98 min Scan# 370
Delta R.T. 0.01 min
Lab File: VL036235.D
Acq: 13 Jan 2021 21:40

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tot Ion	Ratio	Lower	Upper
45	100		
58	4.5	1.9	2.9#

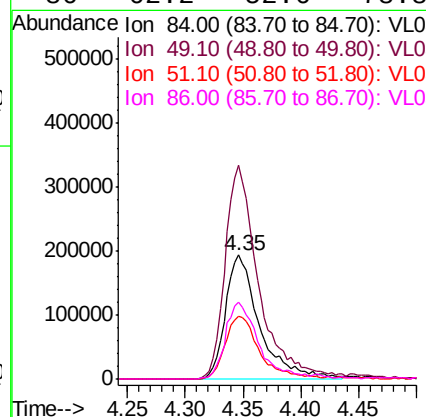
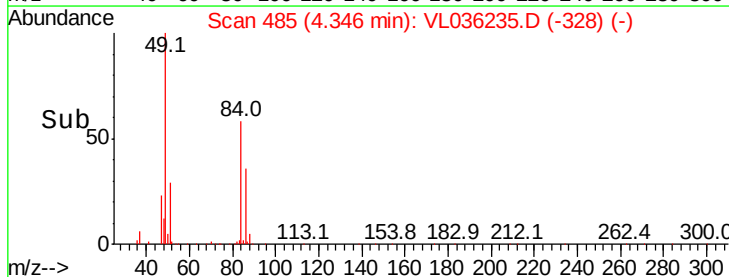
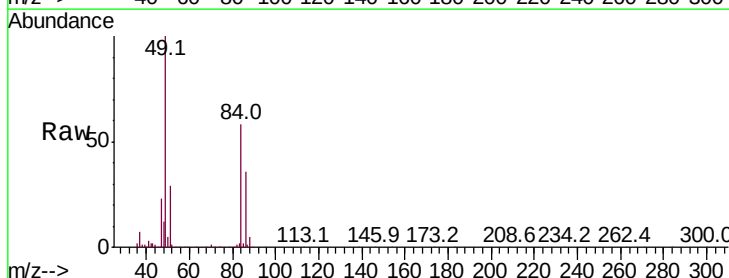
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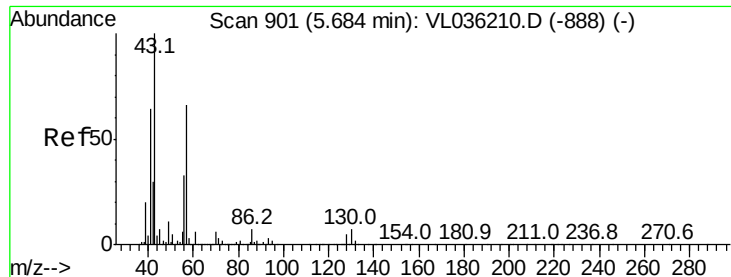
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#20
Methylene Chloride
Concen: 6.894 ppbv m
RT: 4.35 min Scan# 485
Delta R.T. 0.01 min
Lab File: VL036235.D
Acq: 13 Jan 2021 21:40

Tgt Ion	Ratio	Lower	Upper
84	100		
49	172.6	134.1	201.1
51	50.5	37.4	56.0
86	62.2	52.6	78.8





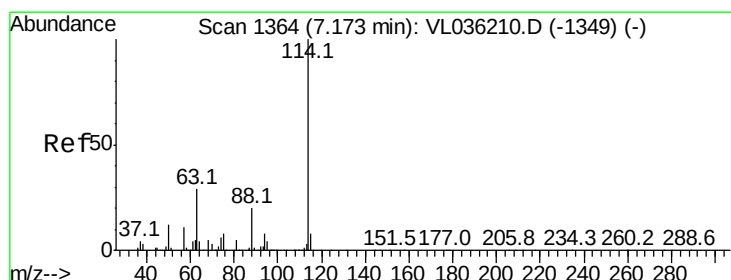
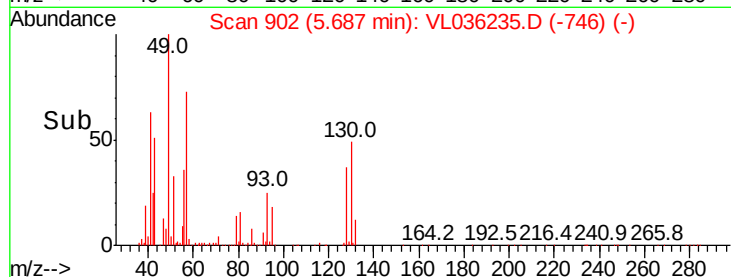
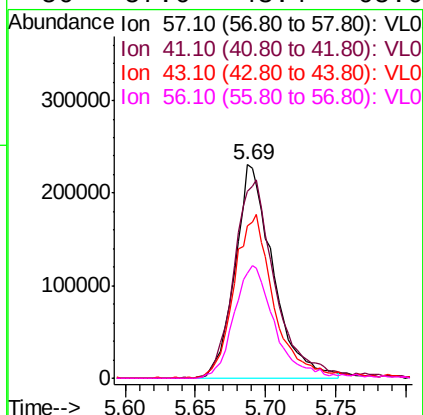
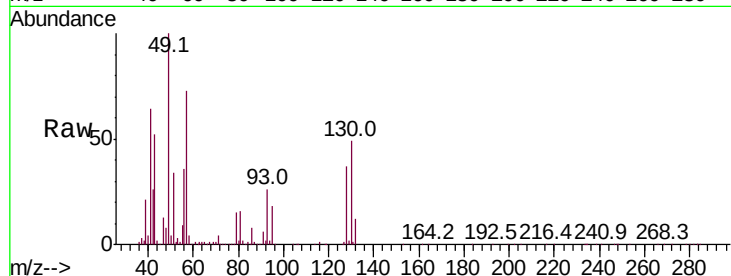
#26
Hexane
Concen: 2.897 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL036235.D
Acq: 13 Jan 2021 21:40

Instrument :
MSVOA_L
ClientSampled :
IA1DUP

Tot Ion	Ratio	Lower	Upper
57	100		
41	102.9	83.0	124.6
43	82.3	202.4	303.6#
56	57.6	43.4	65.0

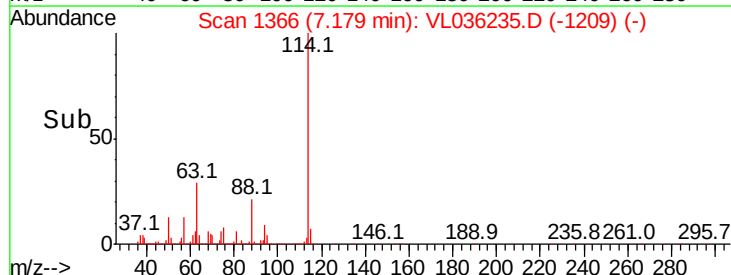
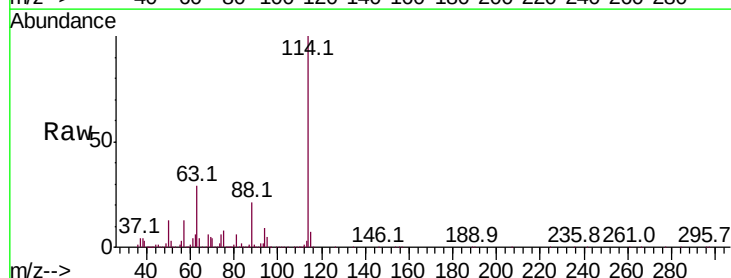
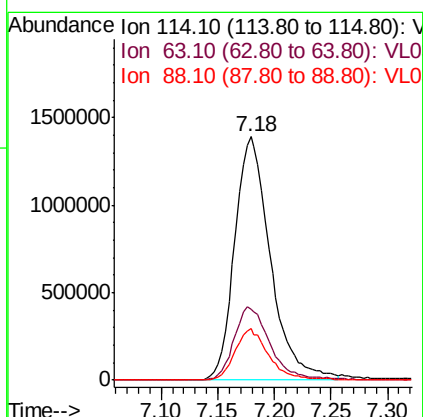
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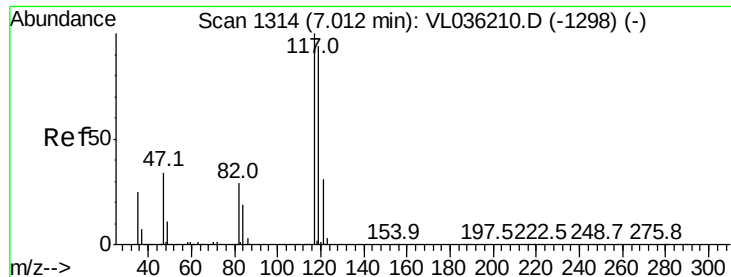
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. 0.01 min
Lab File: VL036235.D
Acq: 13 Jan 2021 21:40

Tgt Ion	Ratio	Lower	Upper
114	100		
63	30.8	24.7	37.1
88	20.4	16.6	24.8





#35

Carbon Tetrachloride

Concen: 0.079 ppbv m

RT: 7.01 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VL036235.D

Acq: 13 Jan 2021 21:40

Instrument :

MSVOA_L

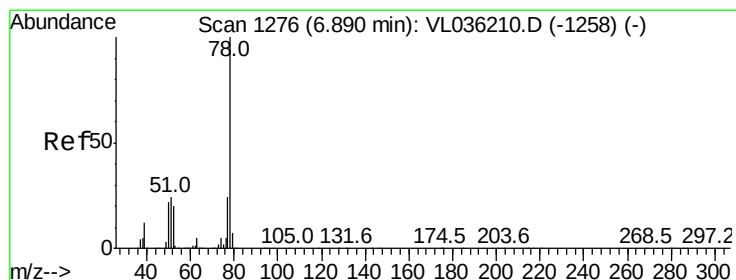
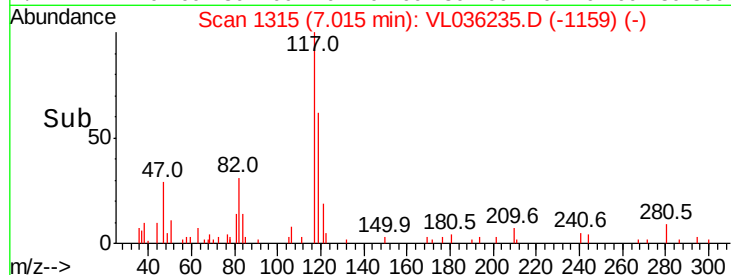
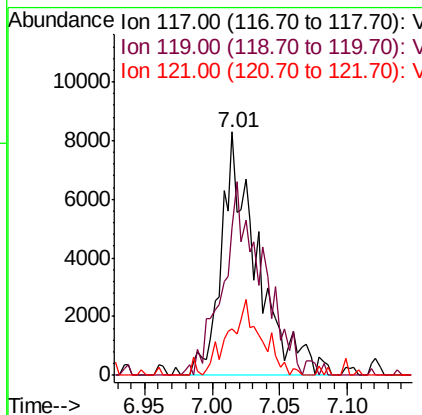
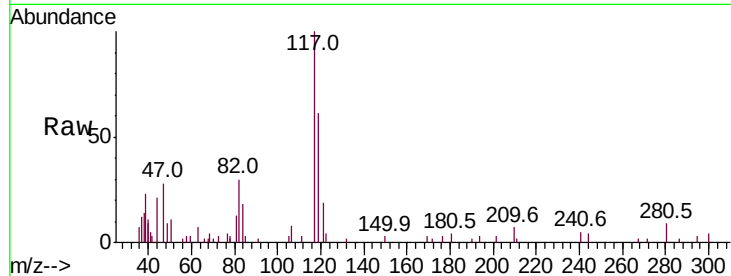
ClientSampleId :

IA1DUP

Tot Ion	Ratio	Lower	Upper
117	100		
119	60.6	74.9	112.3#
121	18.9	25.0	37.6#

Manual Integrations
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#36

Benzene

Concen: 0.355 ppbv

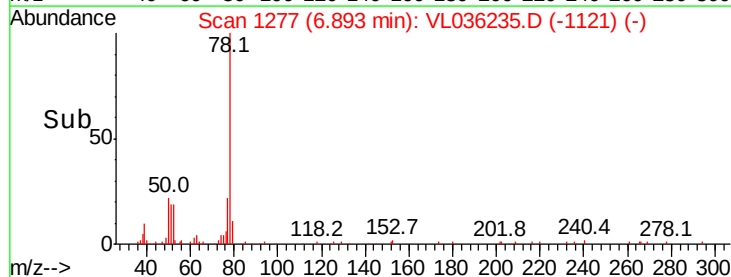
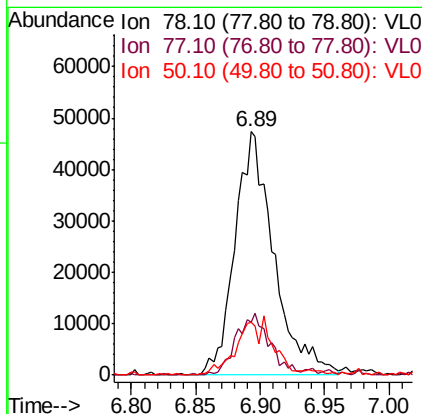
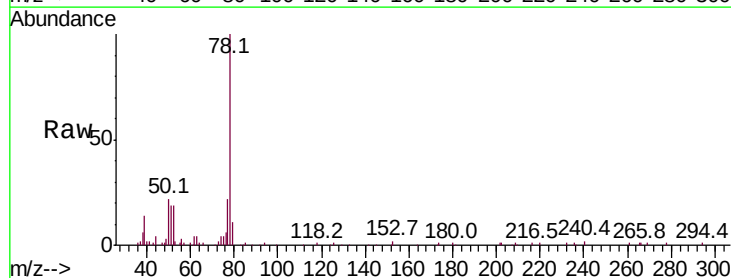
RT: 6.89 min Scan# 1277

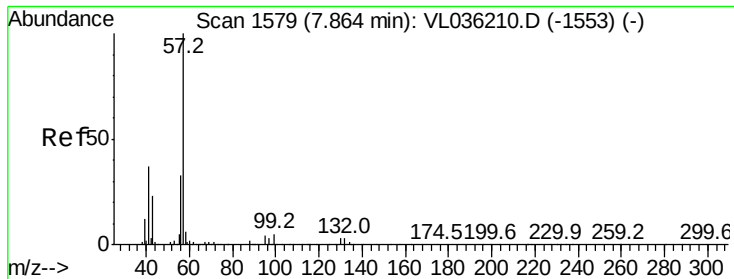
Delta R.T. 0.00 min

Lab File: VL036235.D

Acq: 13 Jan 2021 21:40

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.9	19.4	29.0
50	21.9	17.4	26.2





#44

2,2,4-Trimethylpentane

Concen: 0.085 ppbv m

RT: 7.87 min Scan# 1581

Delta R.T. 0.01 min

Lab File: VL036235.D

Acq: 13 Jan 2021 21:40

Instrument :

MSVOA_L

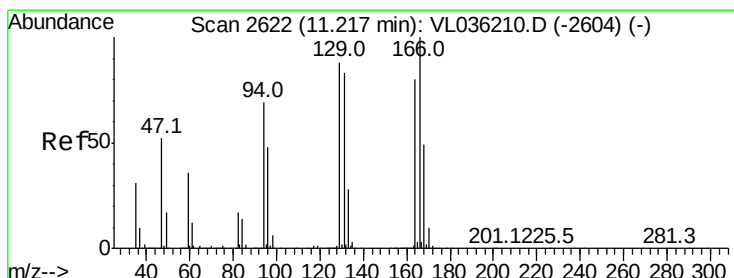
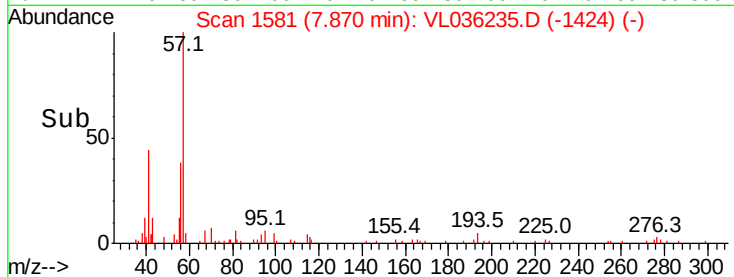
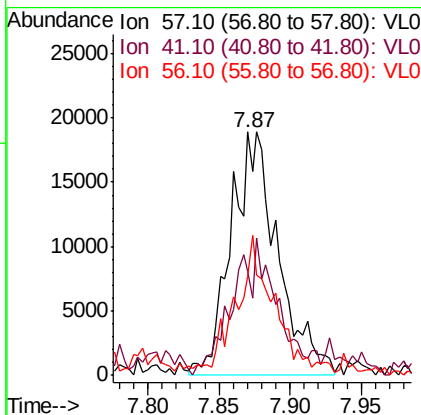
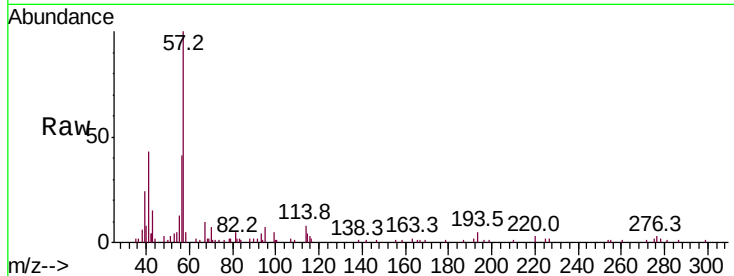
ClientSampled :

IA1DUP

Tot Ion:	57	Resp:	43593
Ion Ratio	Lower	Upper	
57	100		
41	0.0	28.5	42.7#
56	0.0	25.5	38.3#

Manual Integrations
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#52

Tetrachloroethene

Concen: 0.132 ppbv m

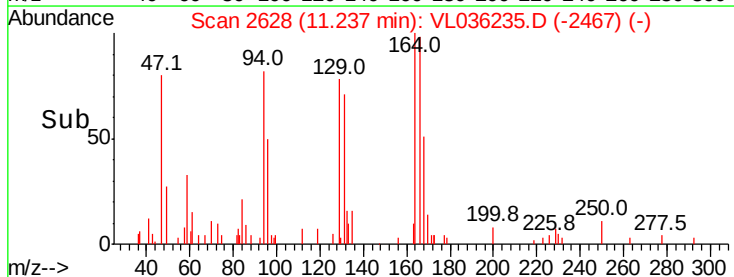
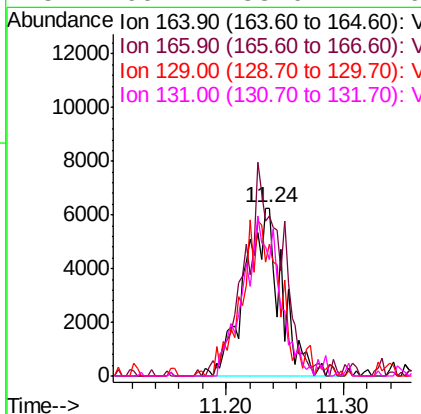
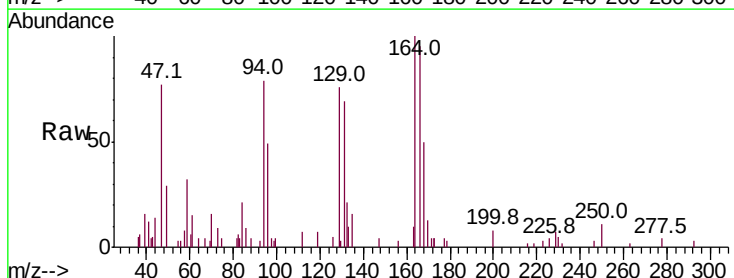
RT: 11.24 min Scan# 2628

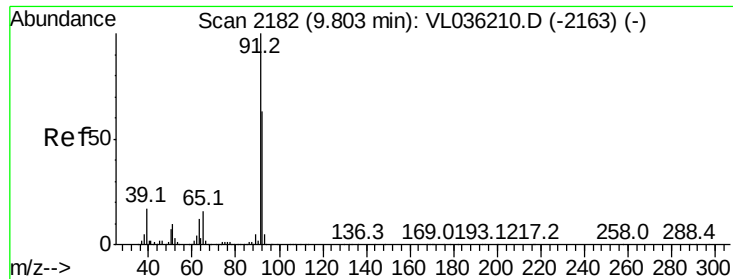
Delta R.T. 0.02 min

Lab File: VL036235.D

Acq: 13 Jan 2021 21:40

Tgt Ion:	164	Resp:	13609
Ion Ratio	Lower	Upper	
164	100		
166	95.0	99.9	149.9#
129	75.5	88.2	132.4#
131	69.2	83.0	124.6#





#53

Toluene

Concen: 0.609 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. 0.01 min

Lab File: VL036235.D

Acq: 13 Jan 2021 21:40

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tot Ion: 91 Resp: 191296

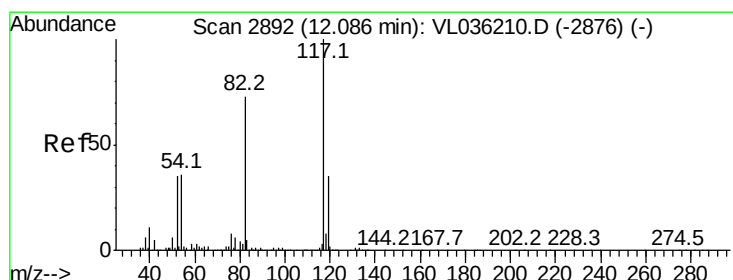
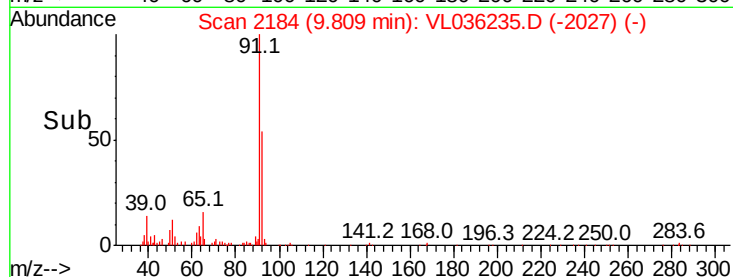
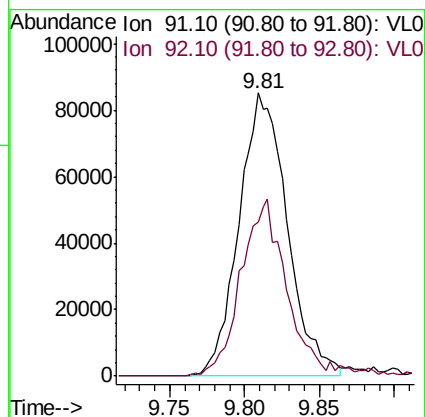
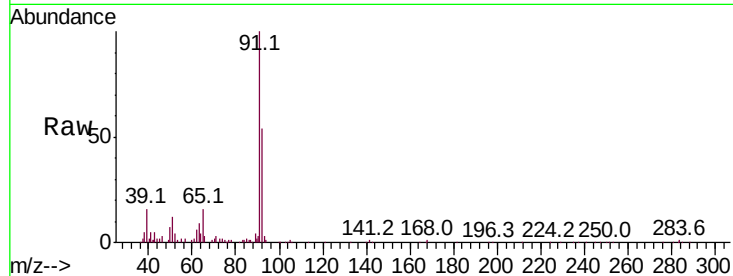
Ion Ratio Lower Upper

91 100

92 60.1 48.5 72.7

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2894

Delta R.T. 0.01 min

Lab File: VL036235.D

Acq: 13 Jan 2021 21:40

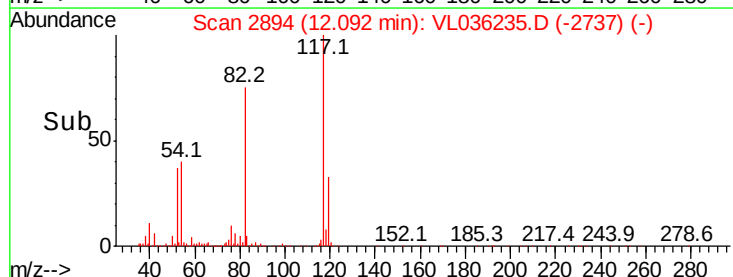
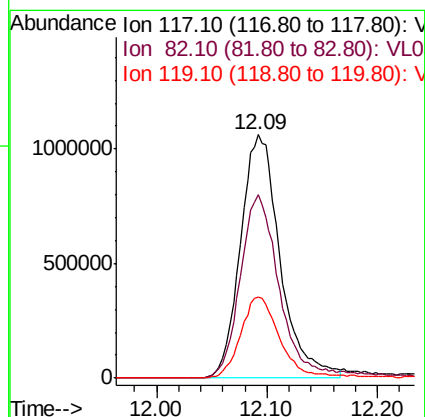
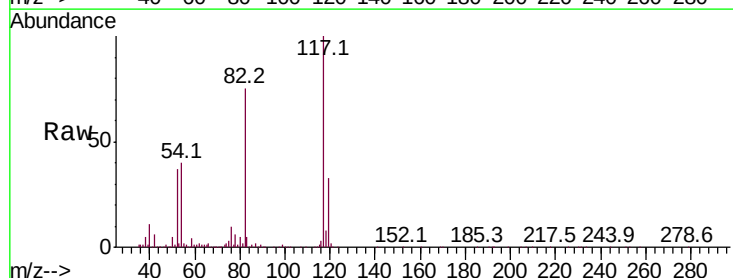
Tgt Ion: 117 Resp: 2646465

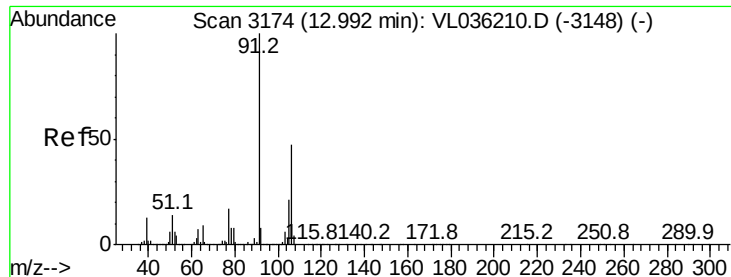
Ion Ratio Lower Upper

117 100

82 76.7 59.7 89.5

119 34.1 28.6 43.0





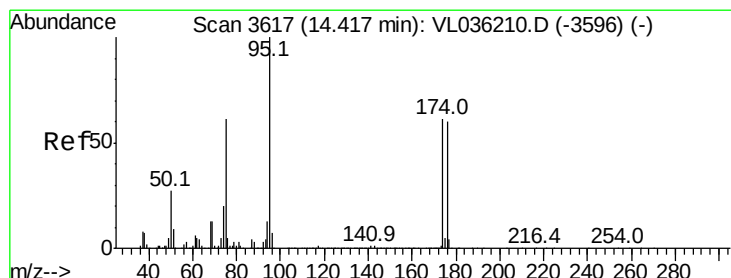
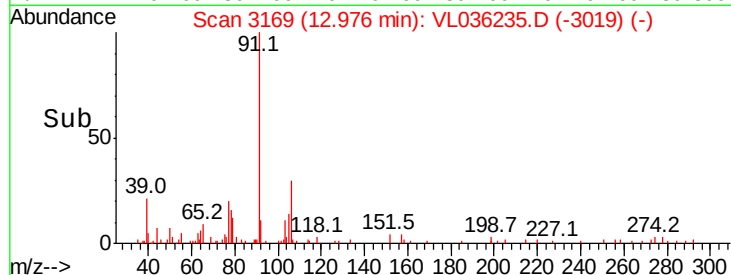
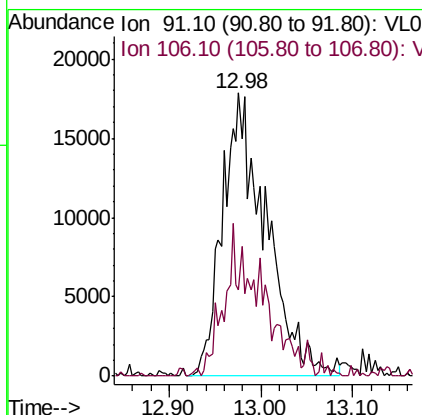
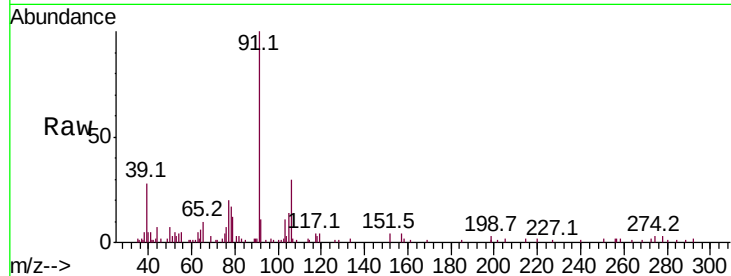
#59
m/p-Xylene
Concen: 0.175 ppbv m
RT: 12.98 min Scan# 3169
Delta R.T. -0.02 min
Lab File: VL036235.D
Acq: 13 Jan 2021 21:40

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tot Ion: 91 Resp: 59022
Ion Ratio Lower Upper
91 100
106 0.0 34.6 51.8#

Manual Integrations
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.105 ppbv
RT: 14.43 min Scan# 3620
Delta R.T. 0.01 min
Lab File: VL036235.D
Acq: 13 Jan 2021 21:40

Tgt Ion: 95 Resp: 2213576
Ion Ratio Lower Upper
95 100
174 59.3 49.4 74.0
175 4.4 3.8 5.8

