

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012821\
 Data File : VL036277.D
 Acq On : 28 Jan 2021 18:38
 Operator : SY/AP
 Sample : M1245-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-3DL

Manual Integrations
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 2/1/2021 1:52:15 PM

Quant Time: Jan 29 03:02:21 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	5.65	49	1589909	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3464892	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.07	117	3122899	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2704825	10.46	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	19832	0.102	ppbv	94
9) Propene	3.01	41	24263	0.261	ppbv	95
10) Heptane	8.11	43	73076	0.317	ppbv	92
13) Ethanol	3.59	45	206432	14.139	ppbv	100
15) Acetone	3.84	43	430037	2.209	ppbv	97
19) Isopropyl Alcohol	3.97	45	465054	3.962	ppbv #	96
20) Methylene Chloride	4.34	84	48767	0.785	ppbv	92
26) Hexane	5.67	57	174092	1.070	ppbv #	38
30) Cyclohexane	7.12	84	26736m	0.215	ppbv	
36) Benzene	6.88	78	86042m	0.271	ppbv	
38) Trichloroethene	7.83	130	4519m	0.038	ppbv	
44) 2,2,4-Trimethylpentane	7.86	57	96522m	0.166	ppbv	
53) Toluene	9.80	91	972651	2.739	ppbv	100
58) Ethyl Benzene	12.70	91	170458m	0.368	ppbv	
59) m/p-Xylene	12.96	91	592254m	1.487	ppbv	
60) o-Xylene	13.68	91	193894	0.505	ppbv	98
74) 1,2,4-Trimethylbenzene	16.76	105	95722	0.226	ppbv #	65

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

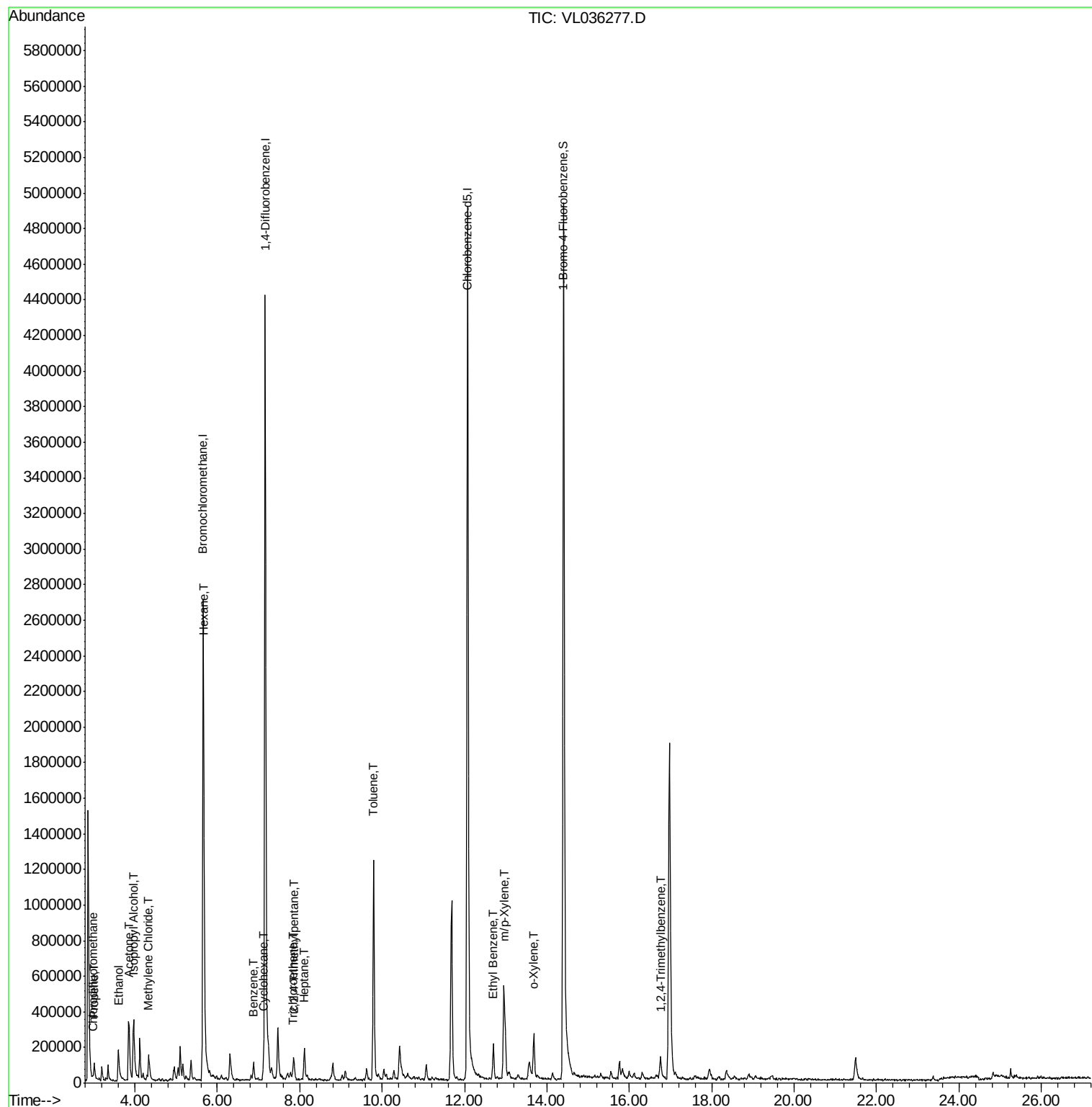
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012821\
Data File : VL036277.D
Acq On : 28 Jan 2021 18:38
Operator : SY/AP
Sample : M1245-03DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

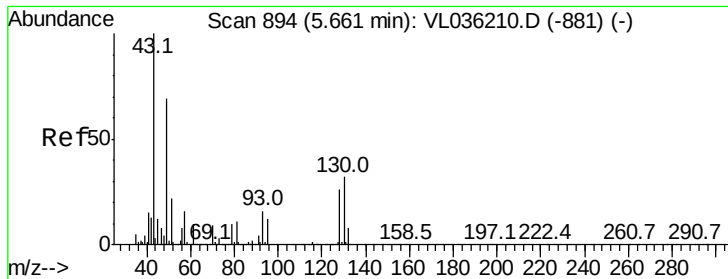
Instrument :
MSVOA_L
ClientSampleId :
SS-3DL

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Quant Time: Jan 29 03:02:21 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

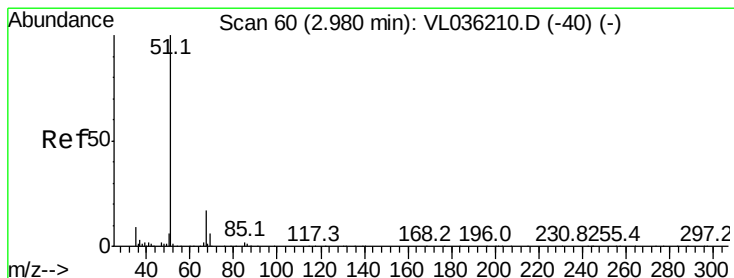
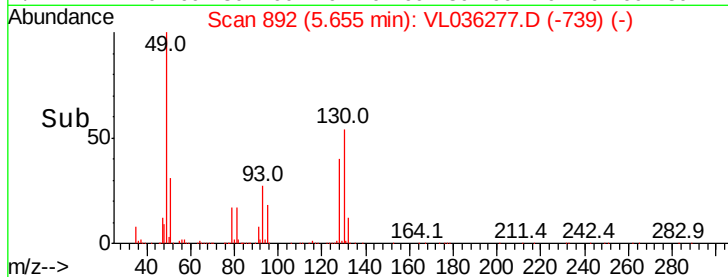
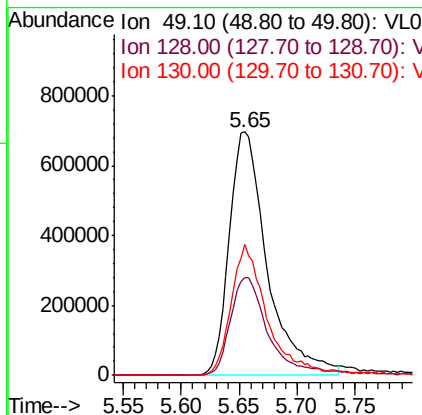
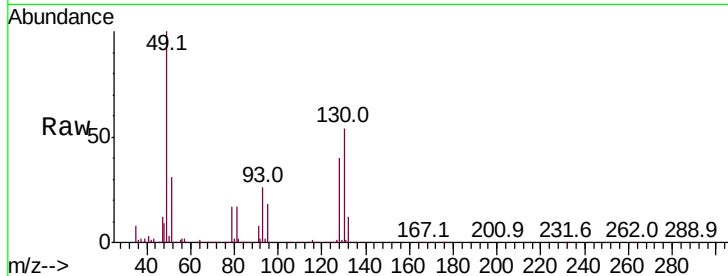
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 892
 Delta R.T. -0.01 min
 Lab File: VL036277.D
 Acq: 28 Jan 2021 18:38

Instrument :
 MSVOA_L
 ClientSampled :
 SS-3DL

Tot Ion	Ratio	Lower	Upper
49	100		
128	41.5	20.1	60.2
130	52.4	25.3	75.9

Manual Integrations
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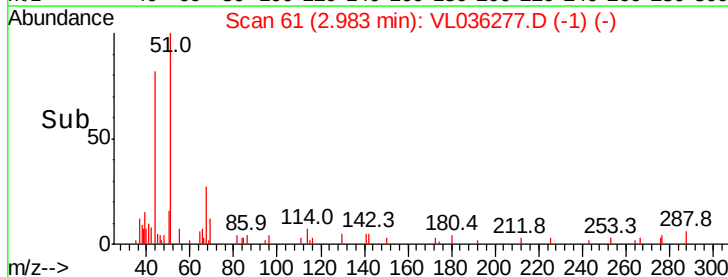
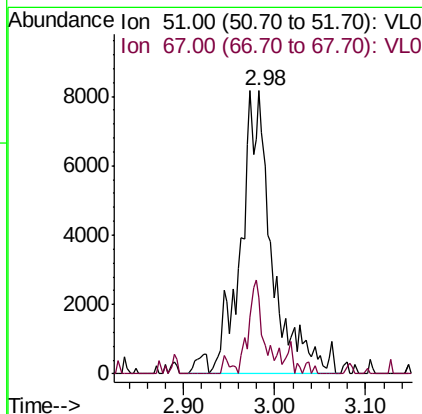
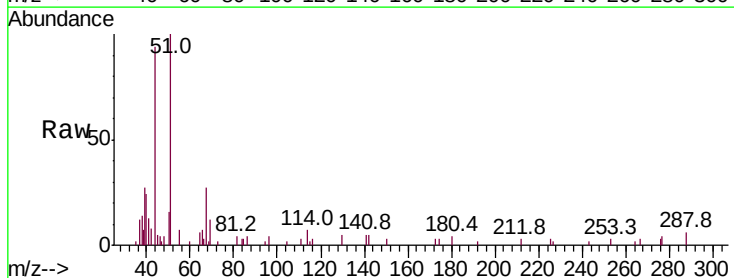
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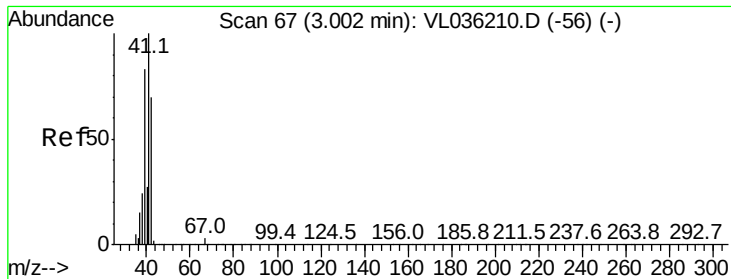


#3

Chlorodifluoromethane
 Concen: 0.102 ppbv
 RT: 2.98 min Scan# 61
 Delta R.T. 0.00 min
 Lab File: VL036277.D
 Acq: 28 Jan 2021 18:38

Tgt Ion	Ratio	Lower	Upper
51	100		
67	20.1	14.0	21.0





#9

Propene

Concen: 0.261 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL036277.D

Acq: 28 Jan 2021 18:38

Instrument :

MSVOA_L

ClientSampleId :

SS-3DL

Tot Ion: 41 Resp: 24263

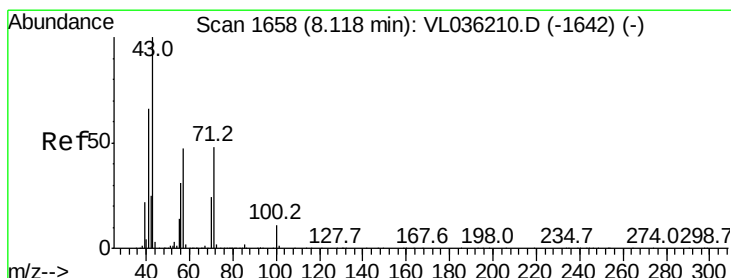
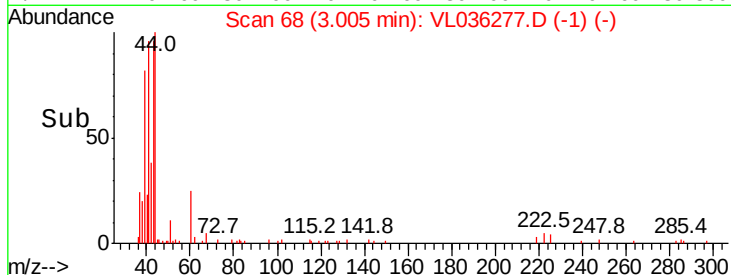
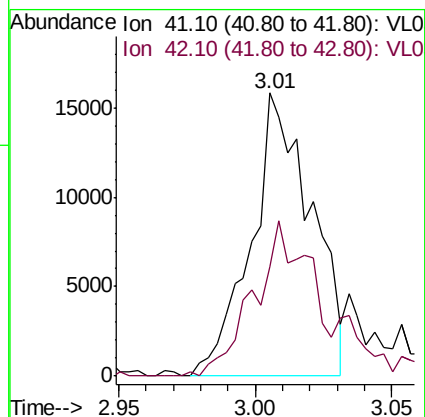
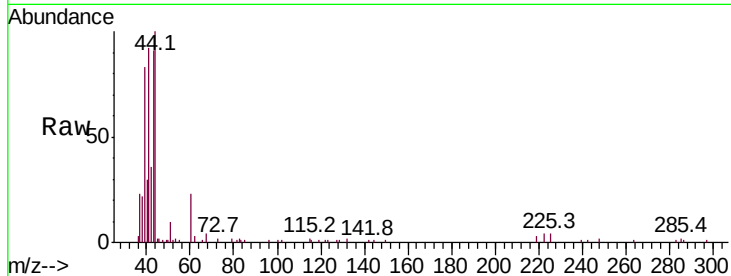
Ion Ratio Lower Upper

41 100

42 66.9 57.1 85.7

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#10

Heptane

Concen: 0.317 ppbv

RT: 8.11 min Scan# 1657

Delta R.T. -0.00 min

Lab File: VL036277.D

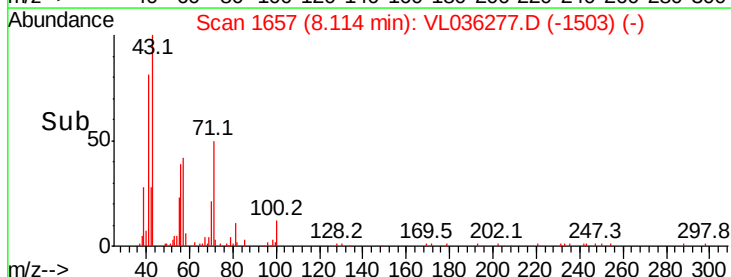
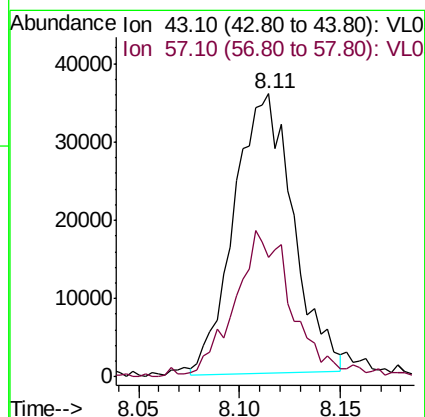
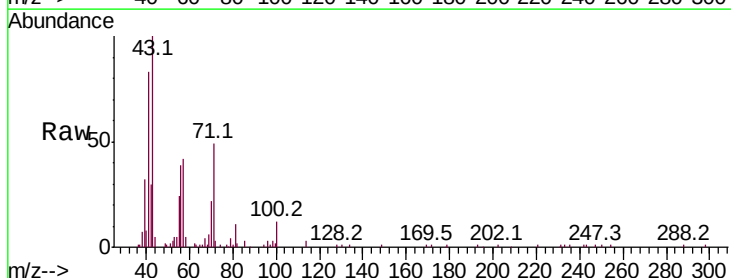
Acq: 28 Jan 2021 18:38

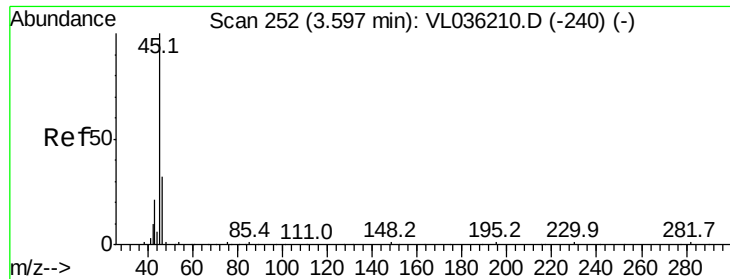
Tgt Ion: 43 Resp: 73076

Ion Ratio Lower Upper

43 100

57 53.0 38.1 57.1





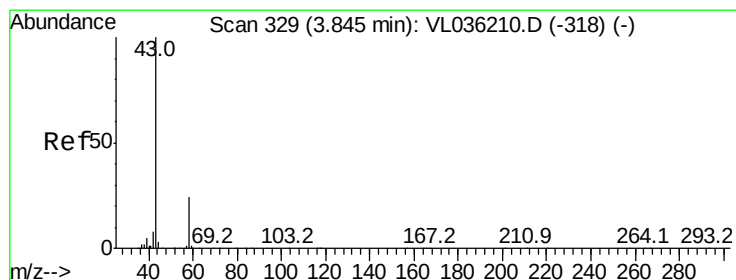
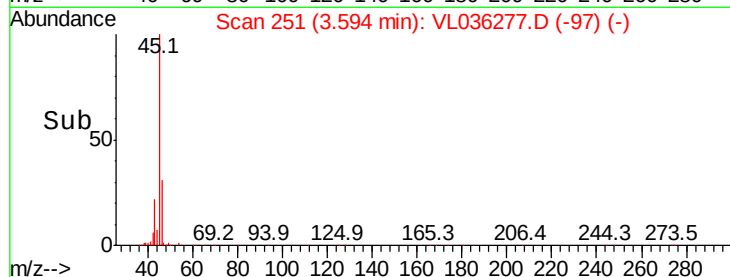
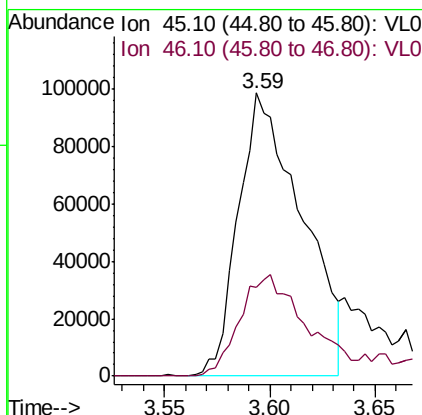
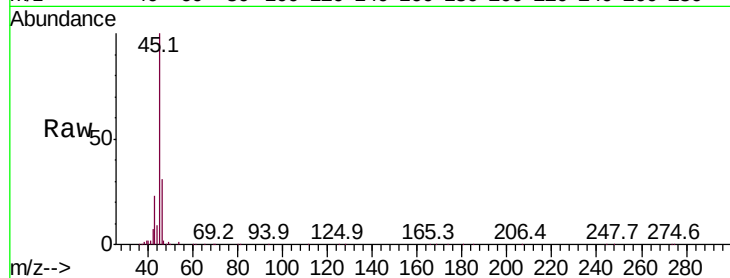
#13
Ethanol
Concen: 14.139 ppbv
RT: 3.59 min Scan# 251
Delta R.T. -0.00 min
Lab File: VL036277.D
Acq: 28 Jan 2021 18:38

Instrument :
MSVOA_L
ClientSampled :
SS-3DL

Tot Ion: 45 Resp: 206432
Ion Ratio Lower Upper
45 100
46 48.0 19.2 77.0

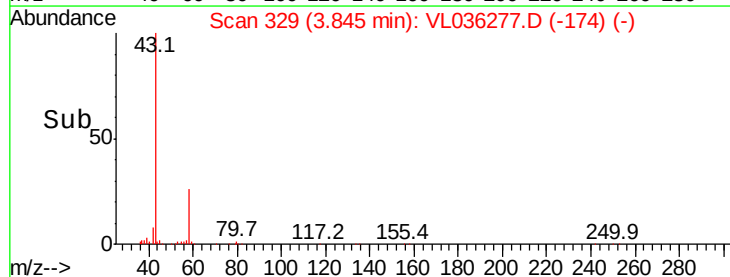
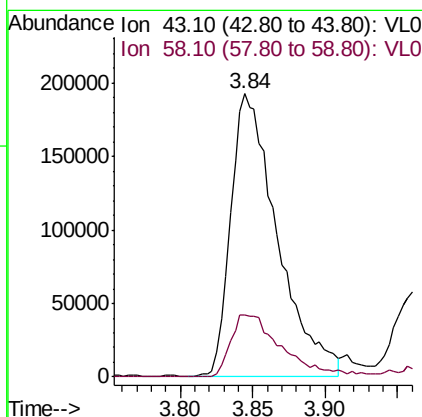
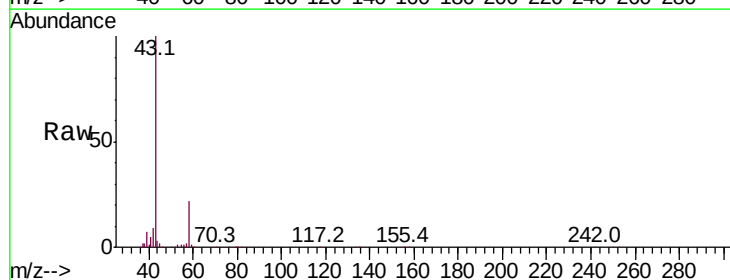
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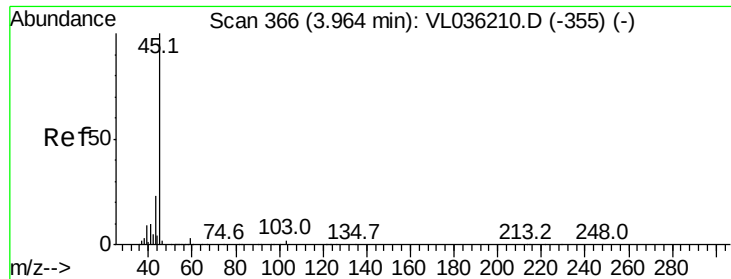
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#15
Acetone
Concen: 2.209 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.00 min
Lab File: VL036277.D
Acq: 28 Jan 2021 18:38

Tgt Ion: 43 Resp: 430037
Ion Ratio Lower Upper
43 100
58 24.4 20.9 31.3





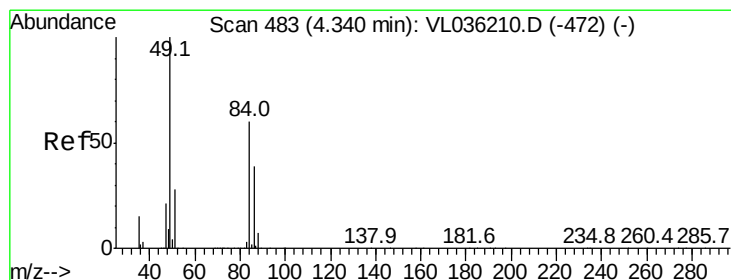
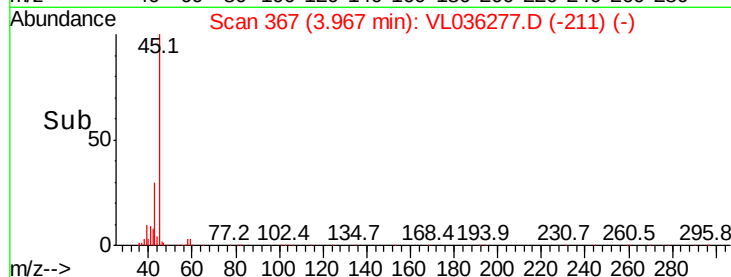
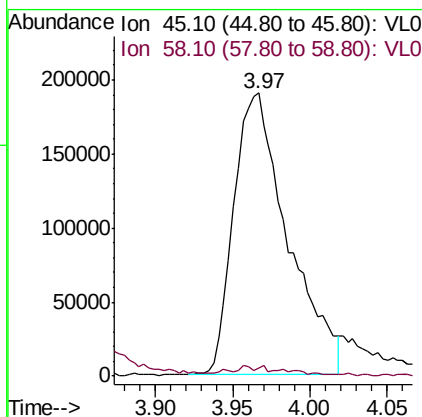
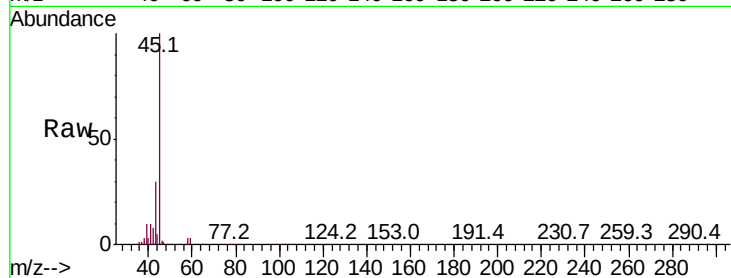
#19
Isopropyl Alcohol
Concen: 3.962 ppbv
RT: 3.97 min Scan# 367
Delta R.T. 0.00 min
Lab File: VL036277.D
Acq: 28 Jan 2021 18:38

Instrument :
MSVOA_L
ClientSampleId :
SS-3DL

Tot Ion	Ratio	Lower	Upper
45	100		
58	3.6	1.9	2.9#

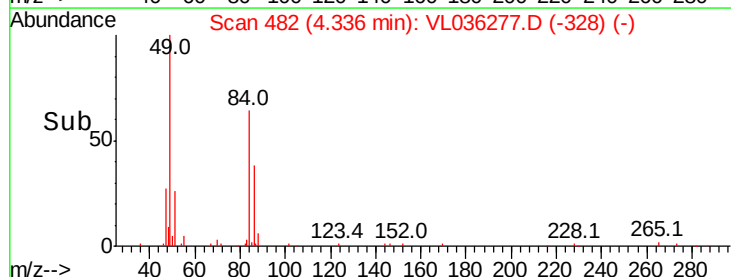
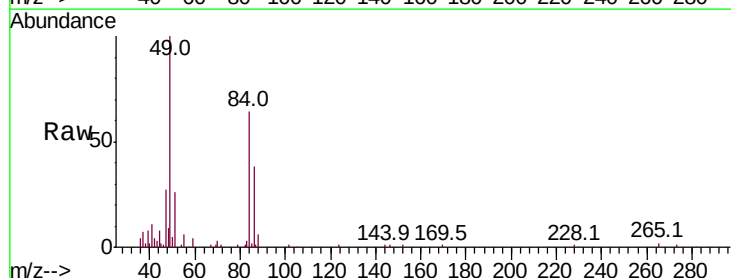
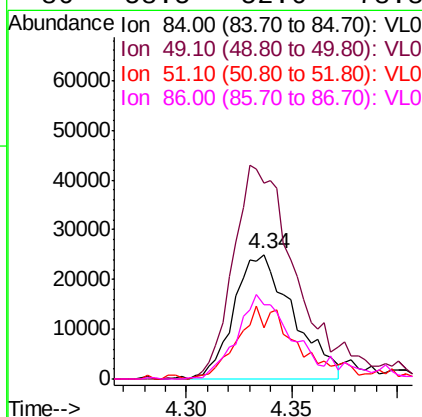
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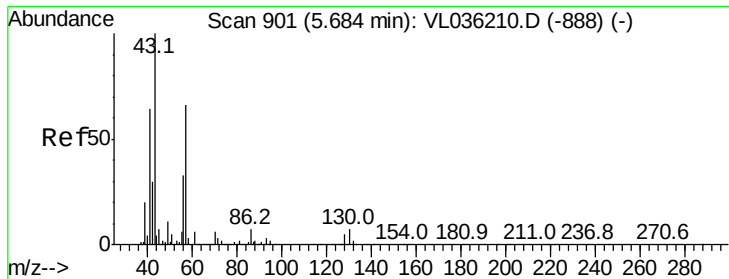
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#20
Methylene Chloride
Concen: 0.785 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.00 min
Lab File: VL036277.D
Acq: 28 Jan 2021 18:38

Tgt Ion	Ratio	Lower	Upper
84	100		
49	157.1	134.1	201.1
51	40.9	37.4	56.0
86	58.5	52.6	78.8





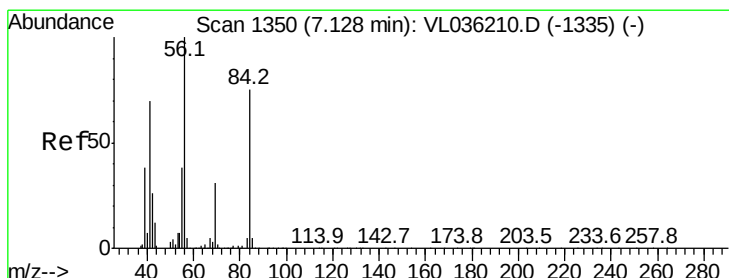
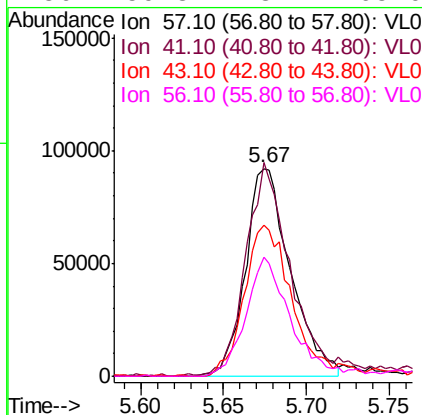
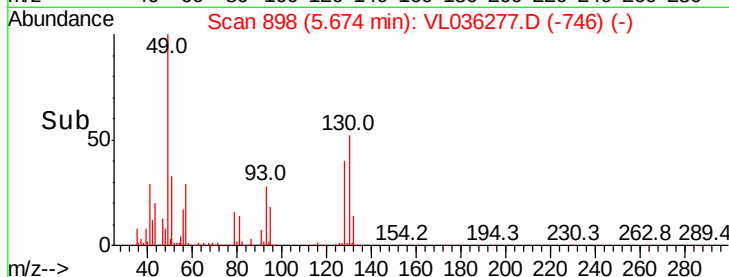
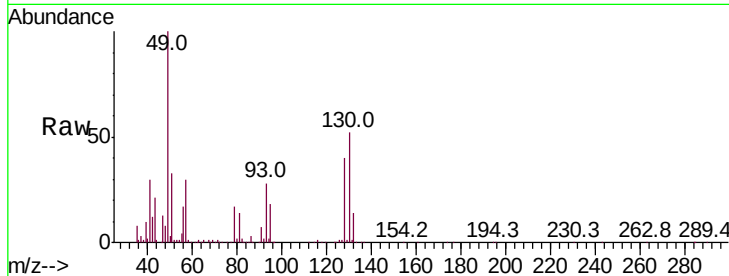
#26
Hexane
Concen: 1.070 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL036277.D
Acq: 28 Jan 2021 18:38

Instrument :
MSVOA_L
ClientSampled :
SS-3DL

Tot Ion	57	Resp	174092
Ion Ratio	Lower	Upper	
57	100		
41	109.2	83.0	124.6
43	81.5	202.4	303.6#
56	59.3	43.4	65.0

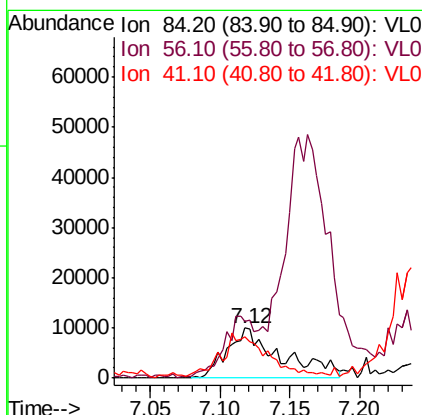
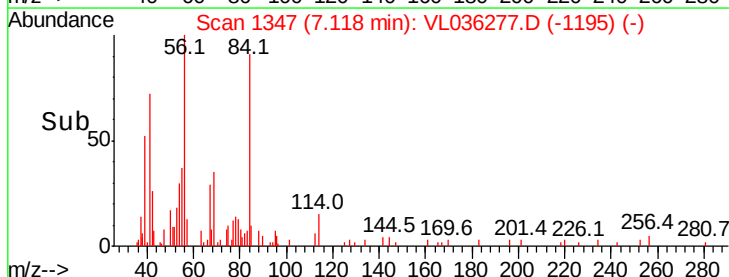
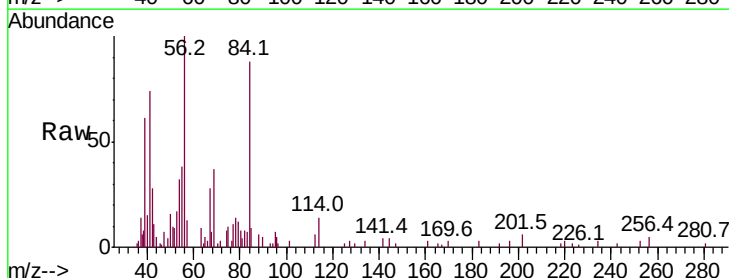
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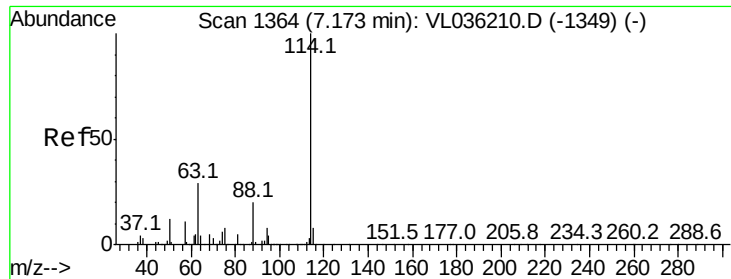
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#30
Cyclohexane
Concen: 0.215 ppbv m
RT: 7.12 min Scan# 1347
Delta R.T. -0.01 min
Lab File: VL036277.D
Acq: 28 Jan 2021 18:38

Tgt Ion	84	Resp	26736
Ion Ratio	Lower	Upper	
84	100		
56	0.0	119.4	179.0#
41	0.0	79.4	119.0#





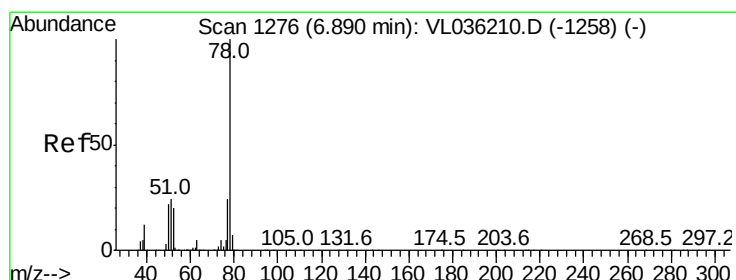
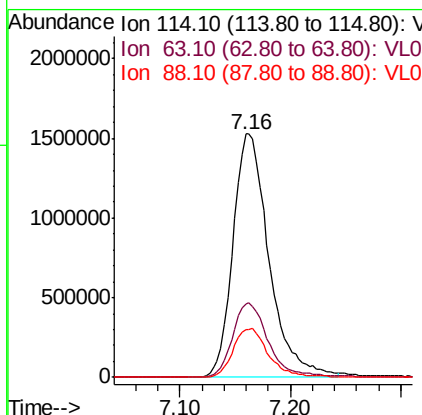
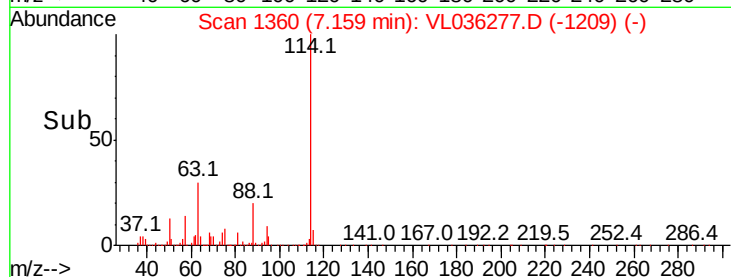
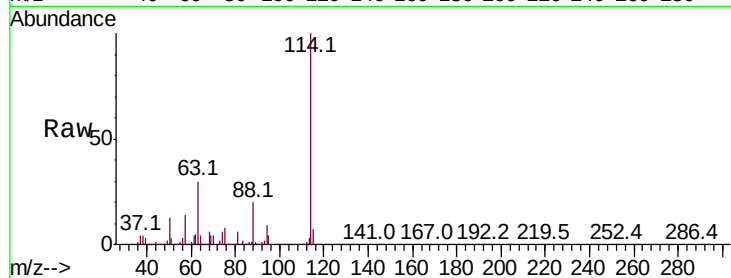
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.01 min
Lab File: VL036277.D
Acq: 28 Jan 2021 18:38

Instrument :
MSVOA_L
ClientSampleId :
SS-3DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	31.0	24.7	37.1
88	20.1	16.6	24.8

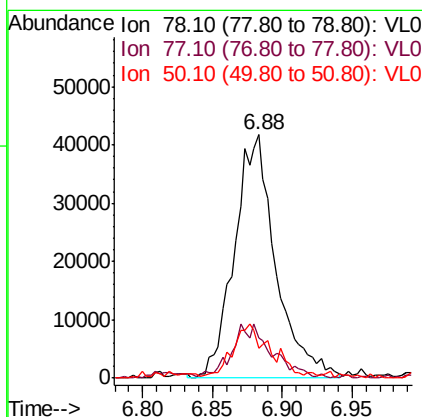
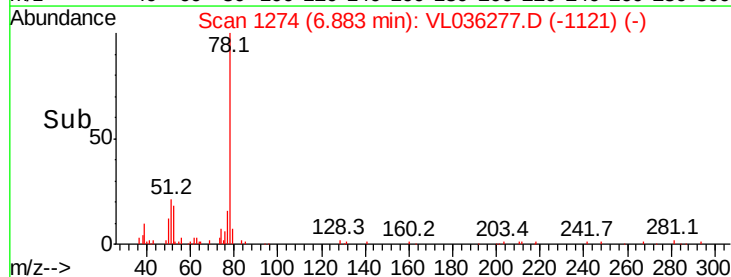
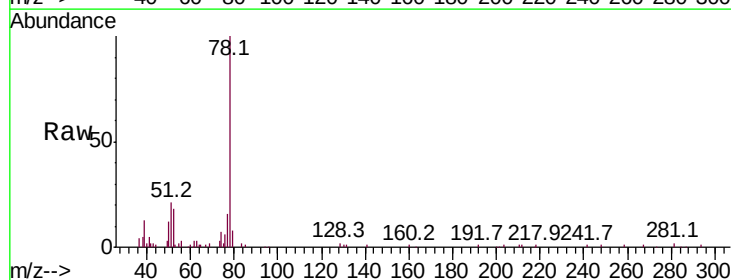
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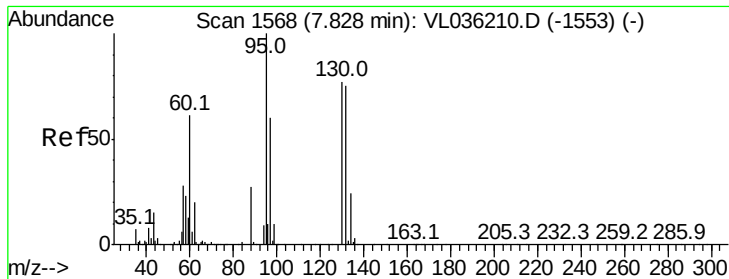
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#36
Benzene
Concen: 0.271 ppbv m
RT: 6.88 min Scan# 1274
Delta R.T. -0.01 min
Lab File: VL036277.D
Acq: 28 Jan 2021 18:38

Tgt Ion	Ratio	Lower	Upper
78	100		
77	16.2	19.4	29.0#
50	12.3	17.4	26.2#





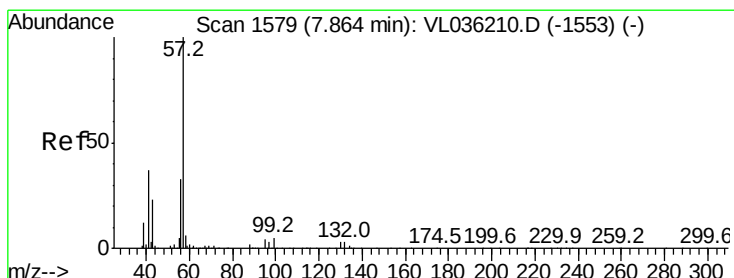
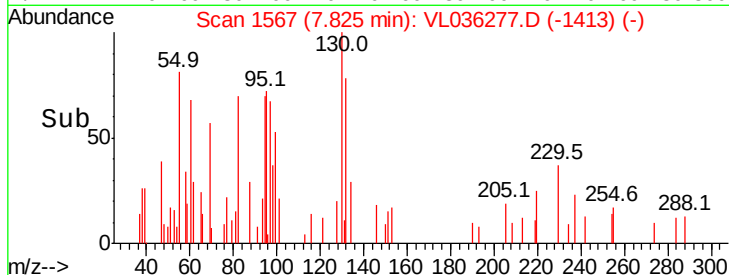
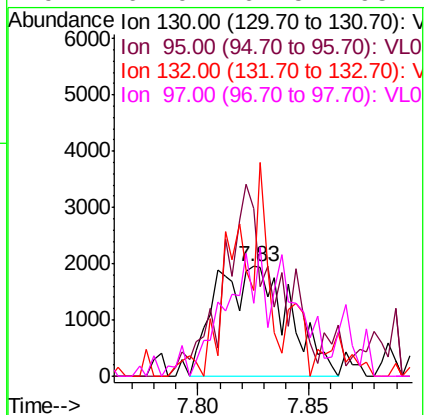
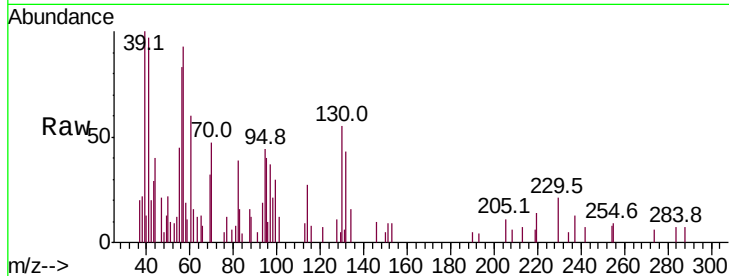
#38
 Trichloroethene
 Concen: 0.038 ppbv m
 RT: 7.83 min Scan# 1567
 Delta R.T. -0.00 min
 Lab File: VL036277.D
 Acq: 28 Jan 2021 18:38

Instrument :
 MSVOA_L
 ClientSampled :
 SS-3DL

Tot Ion:	130	Resp:	4519
Ion Ratio	Lower	Upper	
130	100		
95	80.1	103.9	155.9#
132	78.4	77.4	116.2
97	67.0	62.5	93.7

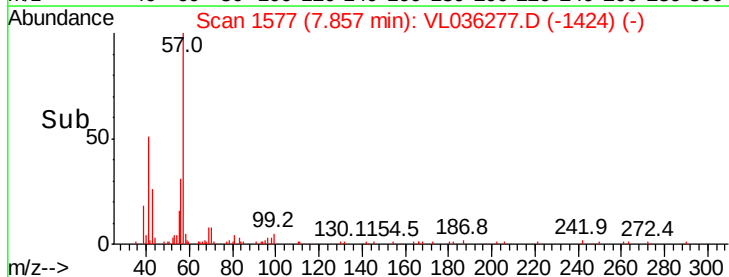
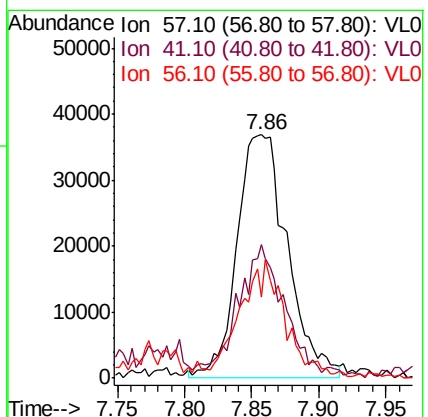
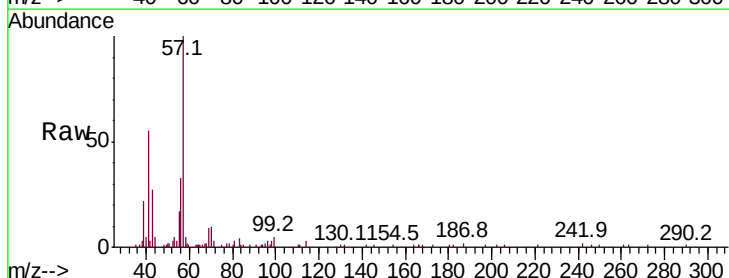
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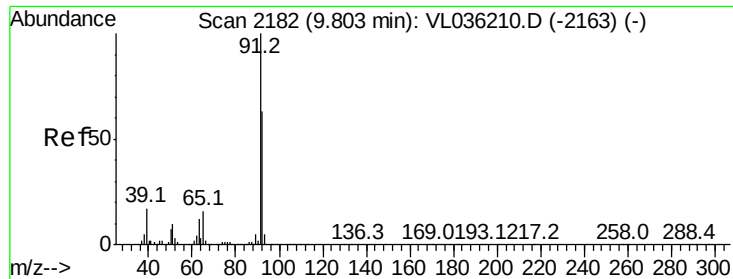
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#44
 2,2,4-Trimethylpentane
 Concen: 0.166 ppbv m
 RT: 7.86 min Scan# 1577
 Delta R.T. -0.01 min
 Lab File: VL036277.D
 Acq: 28 Jan 2021 18:38

Tgt Ion:	57	Resp:	96522
Ion Ratio	Lower	Upper	
57	100		
41	50.9	28.5	42.7#
56	0.0	25.5	38.3#





#53

Toluene

Concen: 2.739 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. -0.01 min

Lab File: VL036277.D

Acq: 28 Jan 2021 18:38

Instrument :

MSVOA_L

ClientSampleId :

SS-3DL

Tot Ion: 91 Resp: 972651

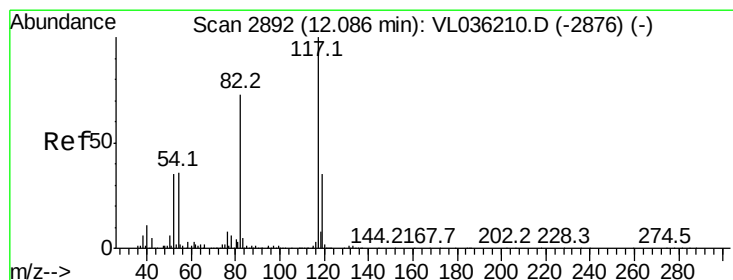
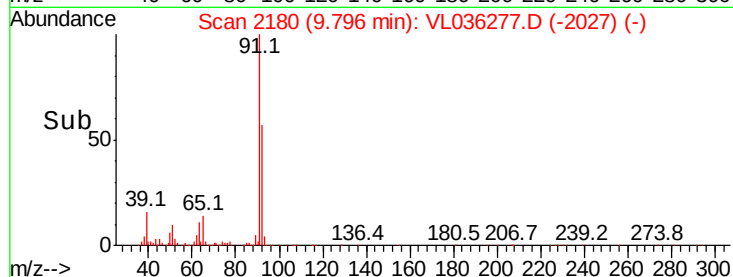
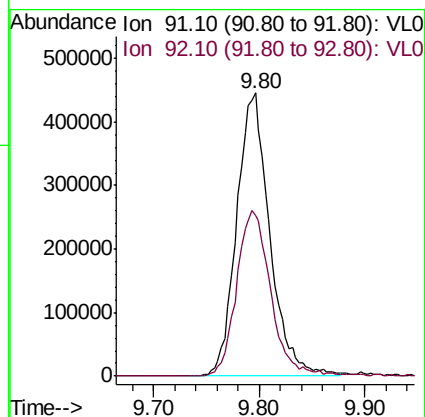
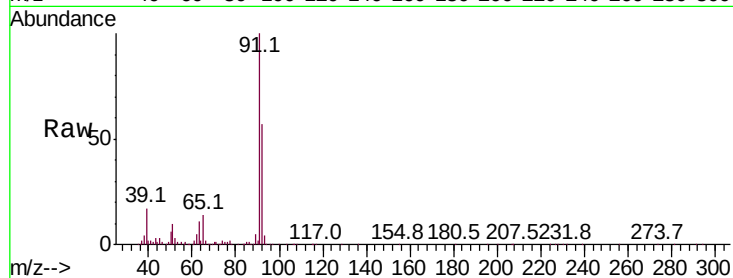
Ion Ratio Lower Upper

91 100

92 60.6 48.5 72.7

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2888

Delta R.T. -0.01 min

Lab File: VL036277.D

Acq: 28 Jan 2021 18:38

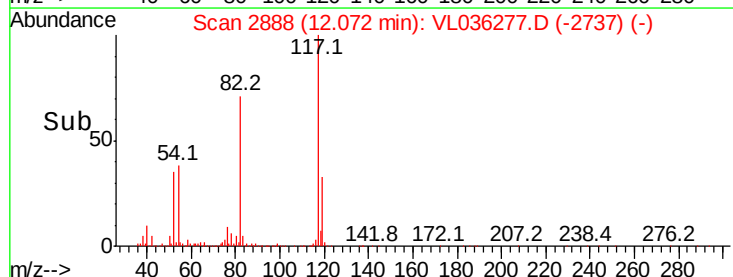
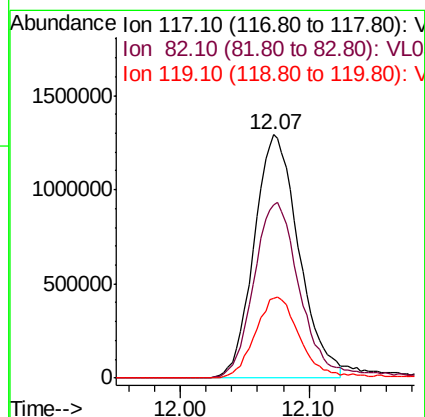
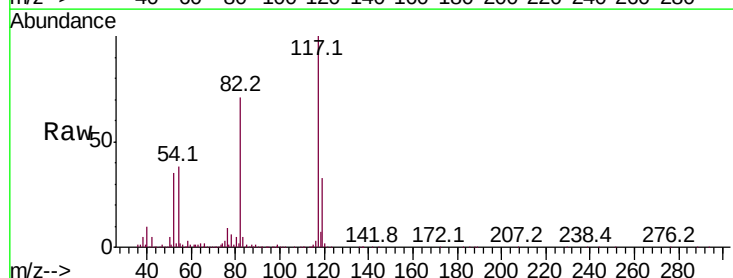
Tgt Ion: 117 Resp: 3122899

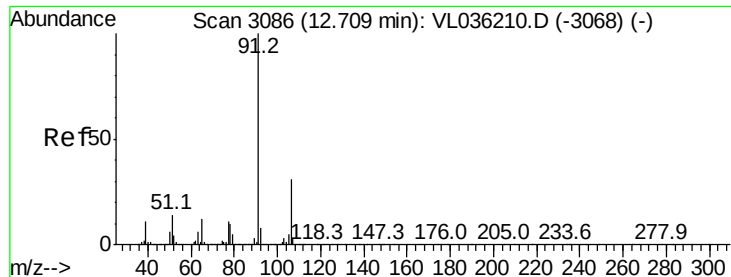
Ion Ratio Lower Upper

117 100

82 77.1 59.7 89.5

119 34.0 28.6 43.0





#58

Ethyl Benzene

Concen: 0.368 ppbv m

RT: 12.70 min Scan# 3084

Delta R.T. -0.01 min

Lab File: VL036277.D

Acq: 28 Jan 2021 18:38

Instrument :

MSVOA_L

ClientSampleId :

SS-3DL

Tot Ion: 91 Resp: 170458

Ion Ratio Lower Upper

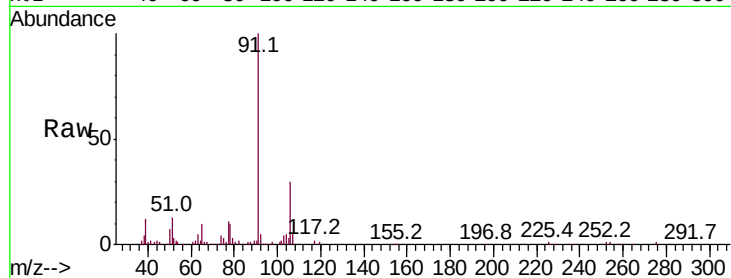
91 100

106 29.9 24.8 37.2

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

12.70

80000

60000

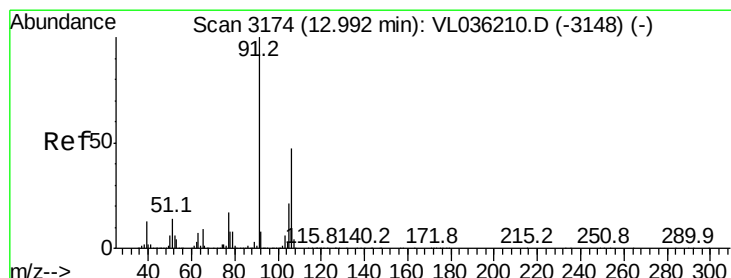
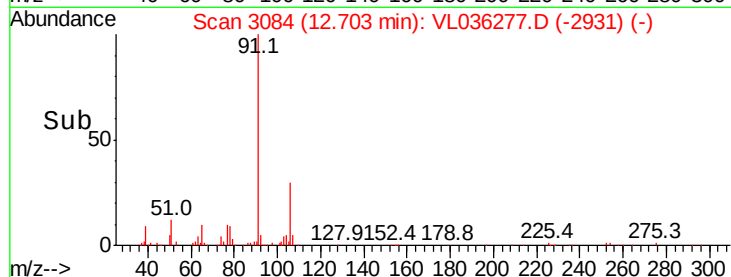
40000

20000

0

12.65 12.70 12.75

Time-->



#59

m/p-Xylene

Concen: 1.487 ppbv m

RT: 12.96 min Scan# 3164

Delta R.T. -0.03 min

Lab File: VL036277.D

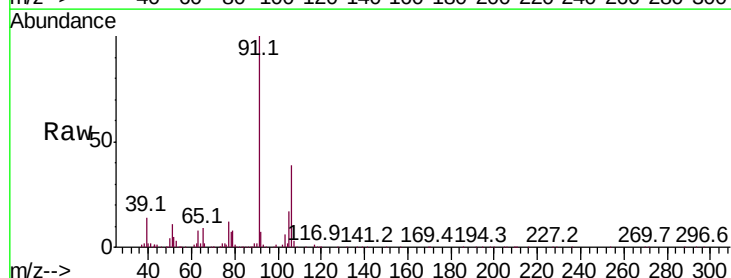
Acq: 28 Jan 2021 18:38

Tgt Ion: 91 Resp: 592254

Ion Ratio Lower Upper

91 100

106 0.0 34.6 51.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

12.96

200000

150000

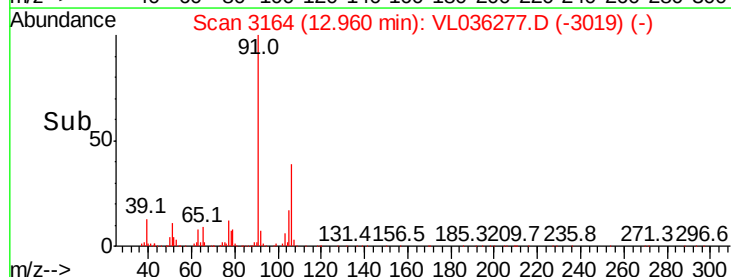
100000

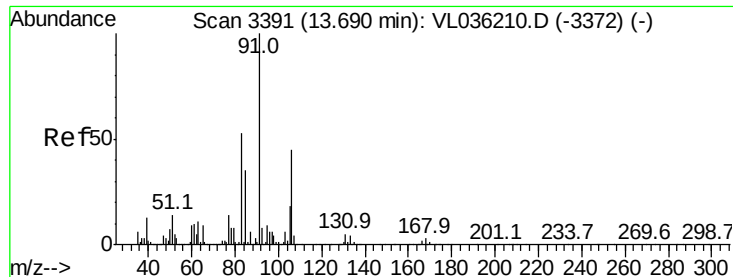
50000

0

12.90 13.00

Time-->





#60

o-Xylene

Concen: 0.505 ppbv

RT: 13.68 min Scan# 3388

Delta R.T. -0.01 min

Lab File: VL036277.D

Acq: 28 Jan 2021 18:38

Instrument :

MSVOA_L

ClientSampleId :

SS-3DL

Tot Ion: 91 Resp: 193894

Ion Ratio Lower Upper

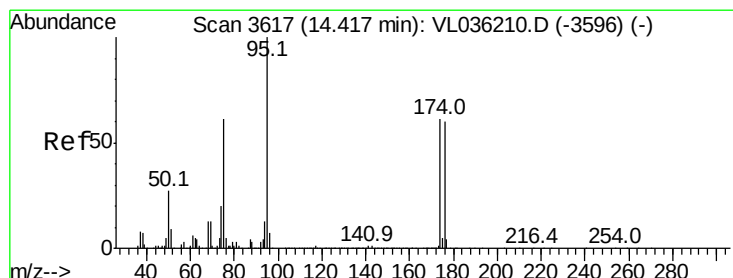
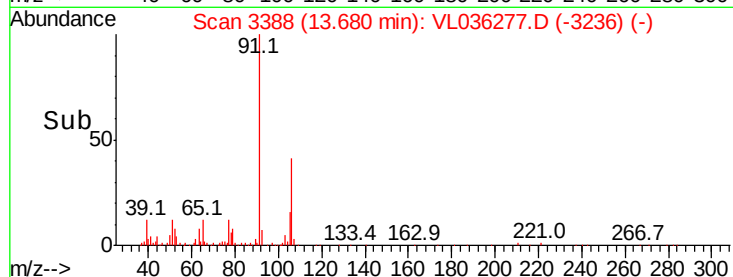
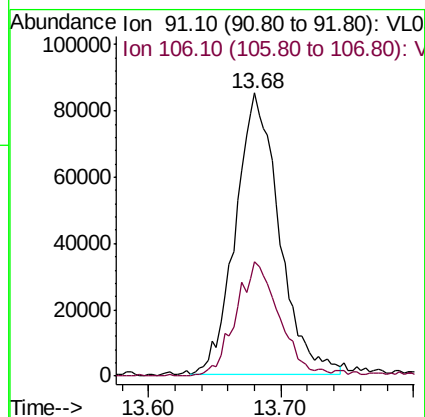
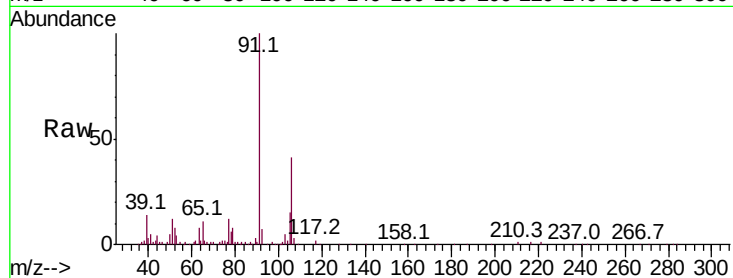
91 100

106 42.4 21.9 65.8

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.464 ppbv

RT: 14.40 min Scan# 3613

Delta R.T. -0.01 min

Lab File: VL036277.D

Acq: 28 Jan 2021 18:38

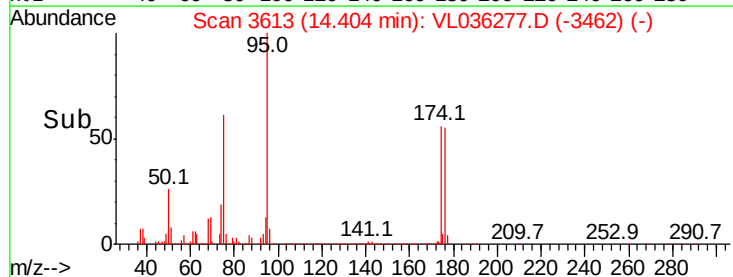
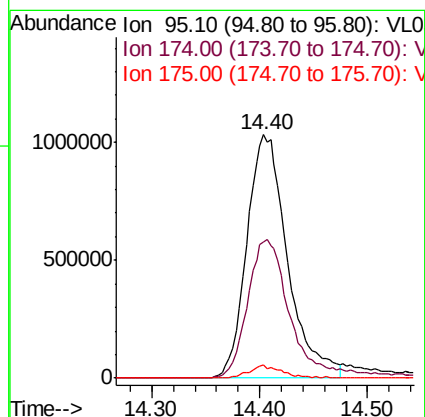
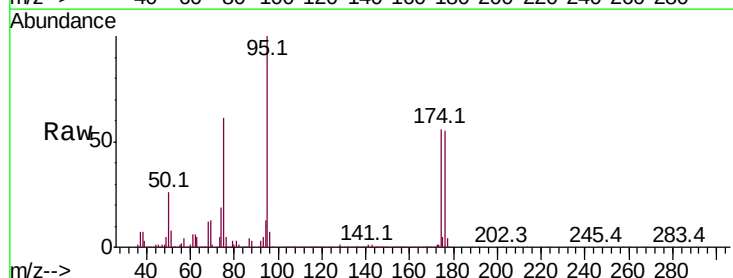
Tgt Ion: 95 Resp: 2704825

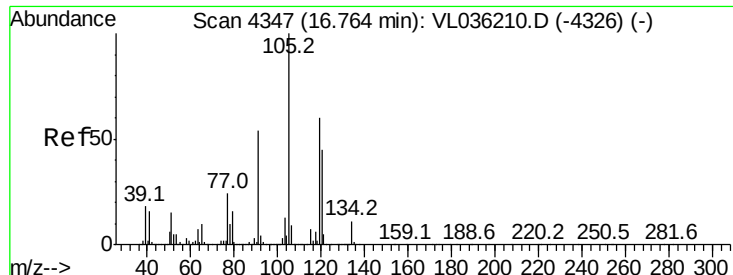
Ion Ratio Lower Upper

95 100

174 62.2 49.4 74.0

175 4.7 3.8 5.8





#74

1,2,4-Trimethylbenzene

Concen: 0.226 ppbv

RT: 16.76 min Scan# 4345

Delta R.T. -0.01 min

Lab File: VL036277.D

Acq: 28 Jan 2021 18:38

Instrument :

MSVOA_L

ClientSampleId :

SS-3DL

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	32.2	36.2	54.2#
91	14.3	43.3	64.9#
77	14.8	19.1	28.7#

Manual Integrations
APPROVED

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