

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012821\
 Data File : VL036283.D
 Acq On : 28 Jan 2021 22:32
 Operator : SY/AP
 Sample : M1245-02 4X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2

Manual Integrations
 APPROVED

MMDadoda
 2/1/2021 1:52:37 PM

Quant Time: Jan 31 17:17:57 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 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	5.66	49	1678232	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3536838	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3278240	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2715855	10.01	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	26420m	0.117	ppbv	
3) Chlorodifluoromethane	2.98	51	67433m	0.327	ppbv	
4) Chloromethane	3.13	50	11478	0.113	ppbv #	82
9) Propene	3.01	41	48201m	0.491	ppbv	
10) Heptane	8.10	43	199589	0.819	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.47	101	39400m	0.284	ppbv	
13) Ethanol	3.68	45	17494546	1135.140	ppbv	85
15) Acetone	3.84	43	18765765	91.302	ppbv #	82
17) tert-Butyl alcohol	4.37	59	18561927	109.441	ppbv	96
20) Methylene Chloride	4.34	84	220649	3.364	ppbv #	87
26) Hexane	5.67	57	507254	2.953	ppbv #	77
29) Chloroform	5.74	83	28508m	0.116	ppbv	
30) Cyclohexane	7.11	84	44723	0.341	ppbv	85
31) cis-1,2-Dichloroethene	5.54	61	16568m	0.101	ppbv	
36) Benzene	6.88	78	246891	0.762	ppbv	97
38) Trichloroethene	7.83	130	460959	3.840	ppbv	94
44) 2,2,4-Trimethylpentane	7.86	57	276457m	0.464	ppbv	
52) Tetrachloroethene	11.22	164	13640m	0.114	ppbv	
53) Toluene	9.80	91	2341091	6.458	ppbv	100
58) Ethyl Benzene	12.70	91	462526	0.951	ppbv	96
59) m/p-Xylene	12.96	91	1465239	3.505	ppbv	96
60) o-Xylene	13.68	91	496701	1.233	ppbv	97
72) 4-Ethyltoluene	15.83	105	121670m	0.268	ppbv	
73) 1,3,5-Trimethylbenzene	15.99	105	64869	0.150	ppbv #	69
74) 1,2,4-Trimethylbenzene	16.75	105	274589	0.618	ppbv #	68

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

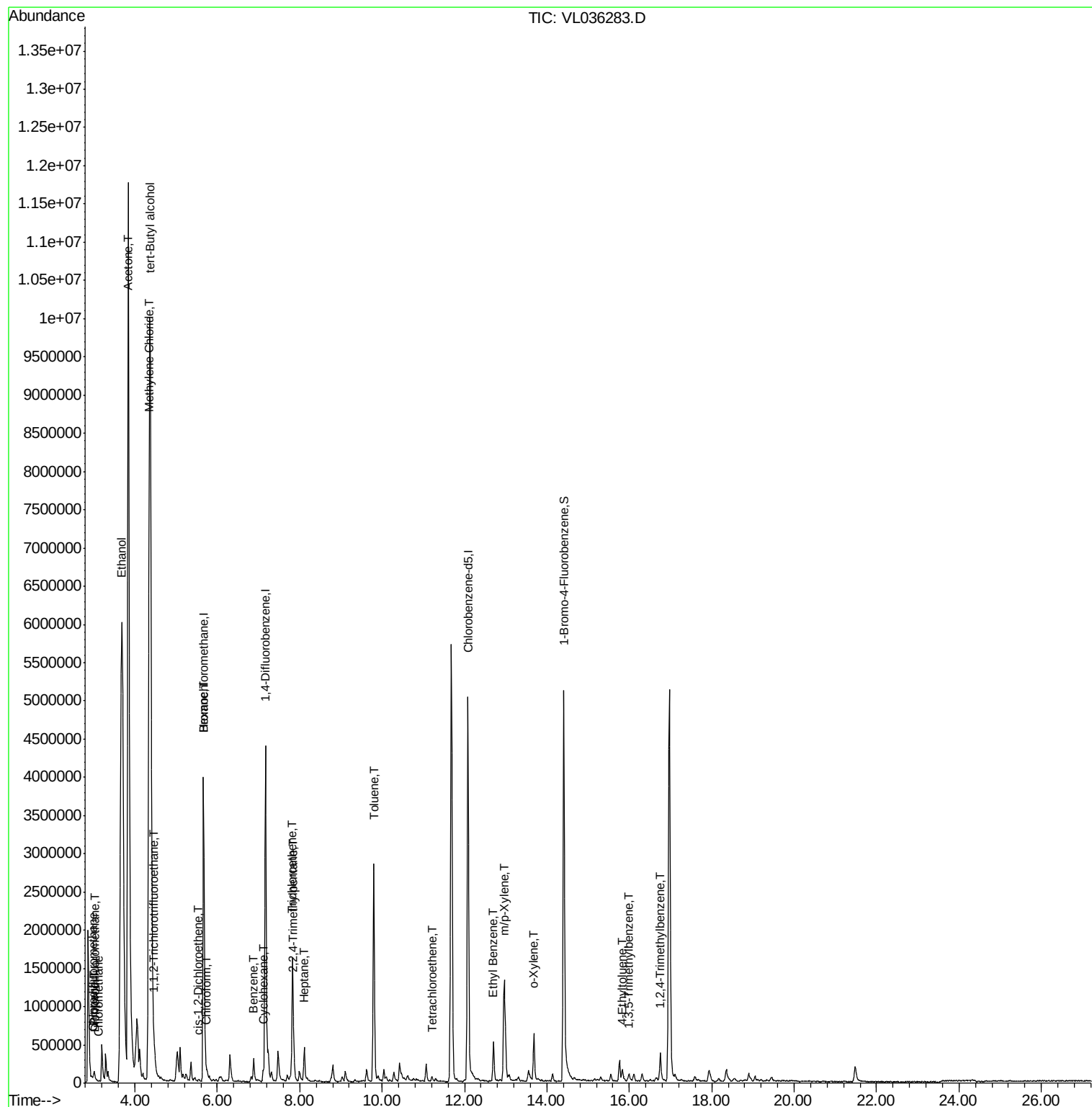
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL012821\
Data File : VL036283.D
Acq On : 28 Jan 2021 22:32
Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

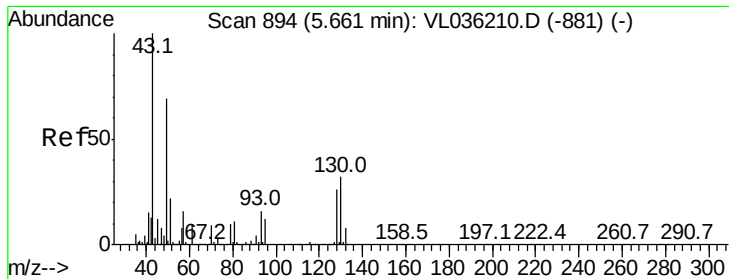
Instrument :
MSVOA_L
ClientSampleId :
SS-2

Manual Integrations
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Quant Time: Jan 31 17:17:57 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

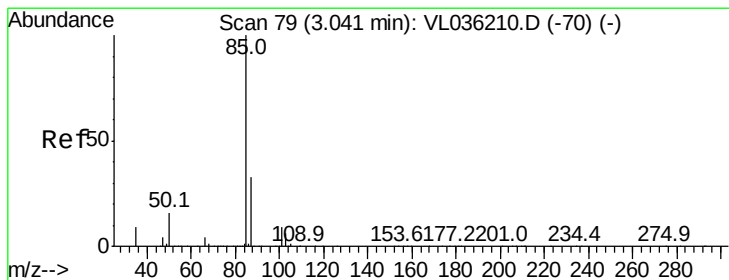
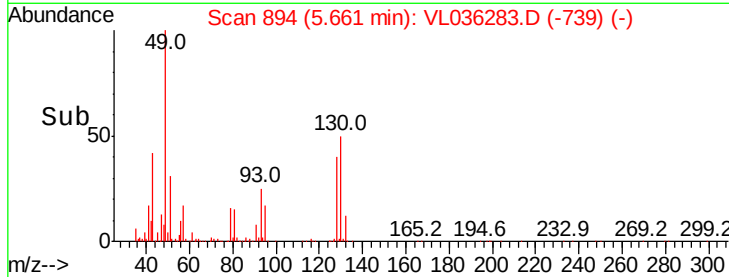
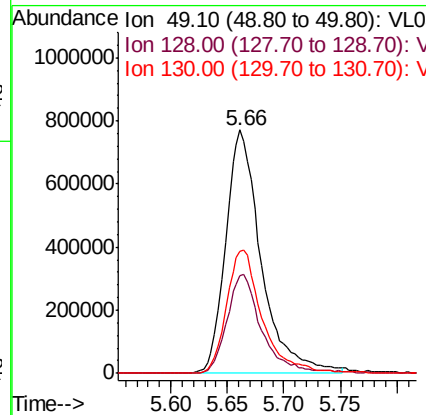
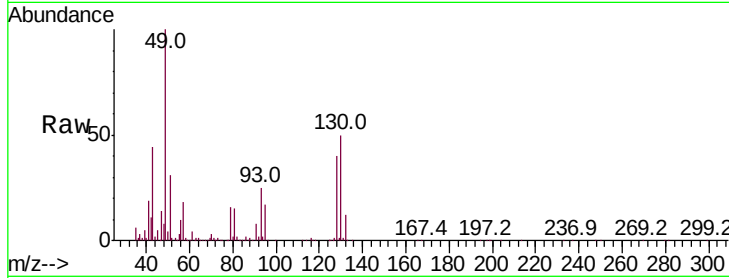
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66 min Scan# 894
 Delta R.T. -0.00 min
 Lab File: VL036283.D
 Acq: 28 Jan 2021 22:32

Instrument :
 MSVOA_L
 ClientSampled :
 SS-2

Tot Ion	Ratio	Lower	Upper
49	100		
128	40.4	20.1	60.2
130	51.6	25.3	75.9

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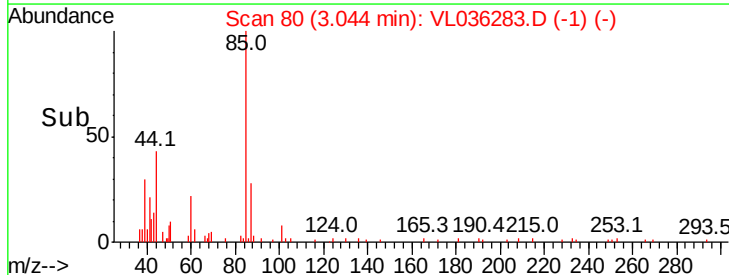
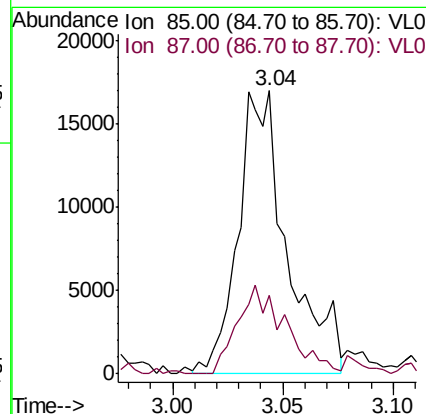
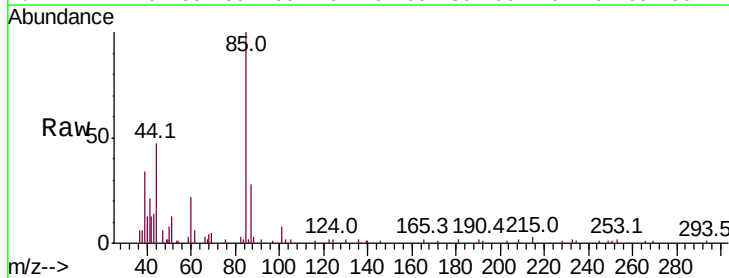
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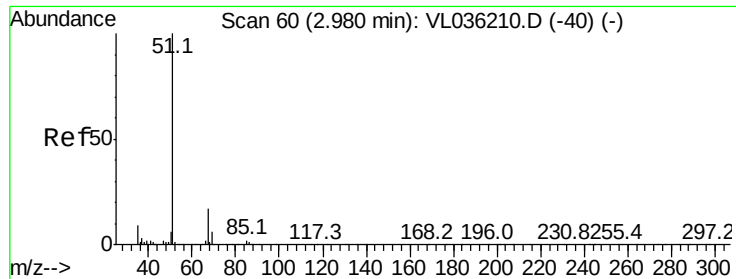


#2

Dichlorodifluoromethane
 Concen: 0.117 ppbv m
 RT: 3.04 min Scan# 80
 Delta R.T. 0.00 min
 Lab File: VL036283.D
 Acq: 28 Jan 2021 22:32

Tgt Ion	Ratio	Lower	Upper
85	100		
87	27.8	26.4	39.6





#3

Chlorodifluoromethane

Concen: 0.327 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.00 min

Lab File: VL036283.D

Acq: 28 Jan 2021 22:32

Instrument :

MSVOA_L

ClientSampleId :

SS-2

Tot Ion: 51 Resp: 67433

Ion Ratio Lower Upper

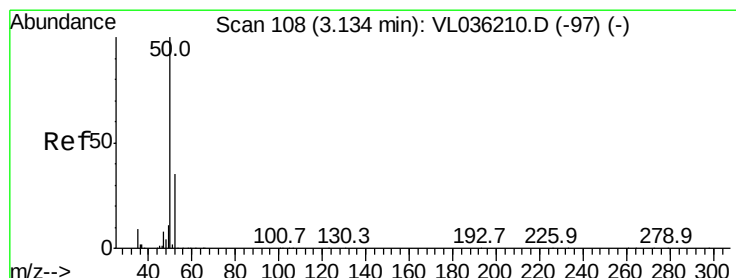
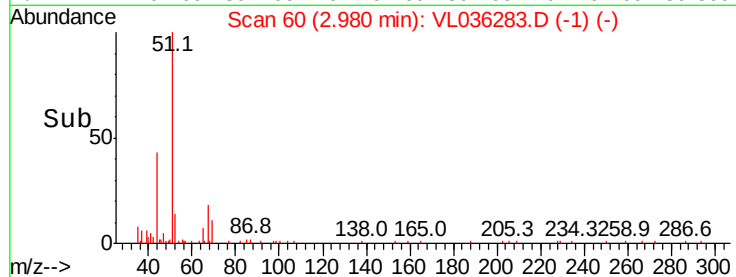
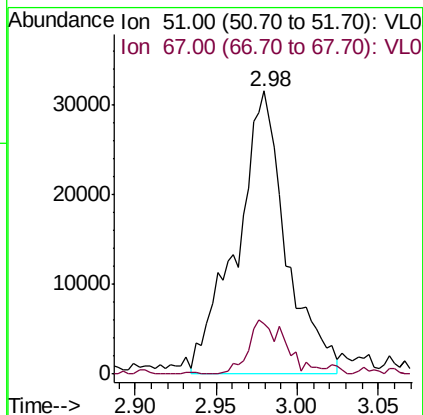
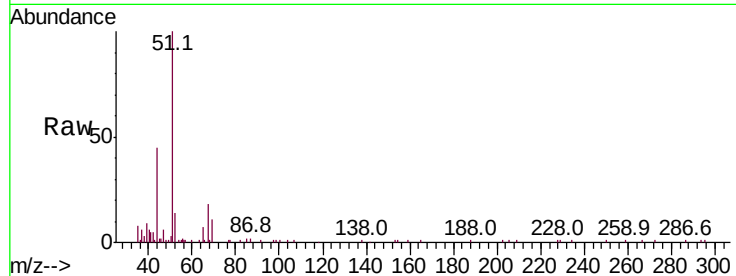
51 100

67 0.6 14.0 21.0#

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#4

Chloromethane

Concen: 0.113 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.01 min

Lab File: VL036283.D

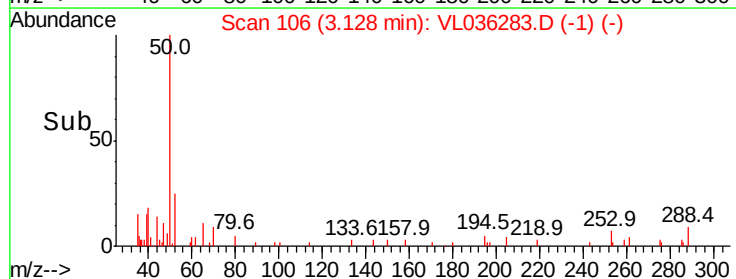
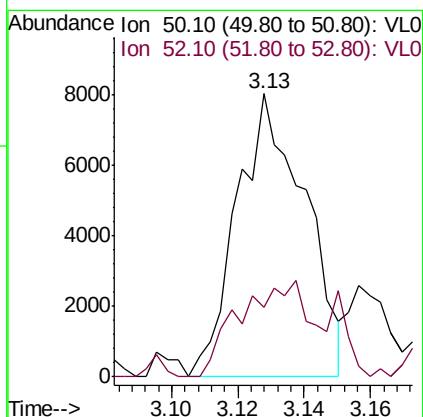
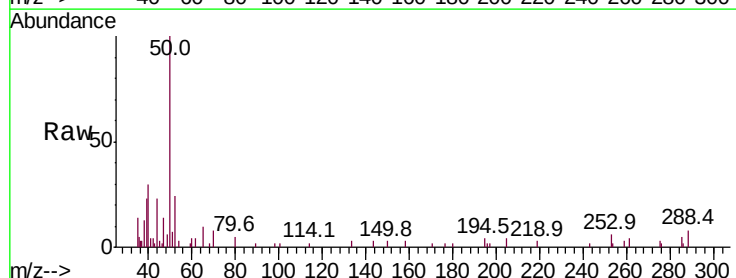
Acq: 28 Jan 2021 22:32

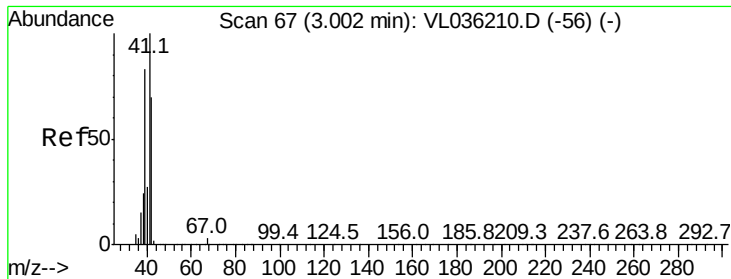
Tgt Ion: 50 Resp: 11478

Ion Ratio Lower Upper

50 100

52 24.5 27.8 41.8#





#9

Propene

Concen: 0.491 ppbv m

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL036283.D

Acq: 28 Jan 2021 22:32

Instrument :

MSVOA_L

ClientSampled :

SS-2

Tot Ion: 41 Resp: 48201

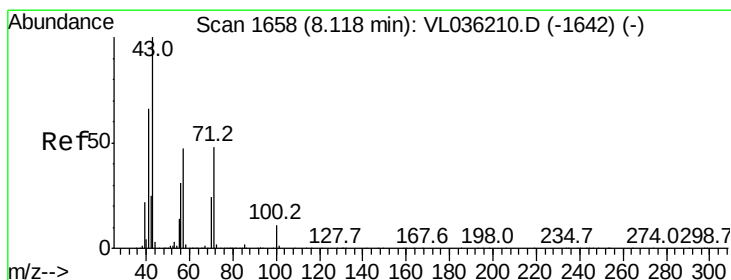
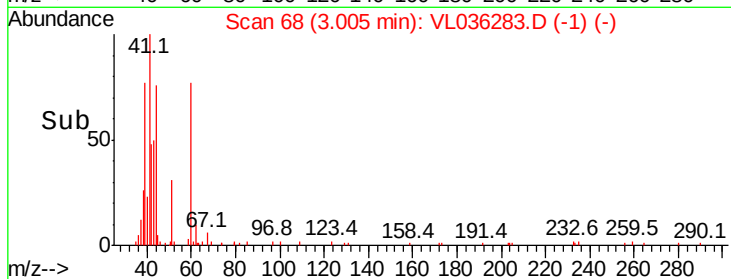
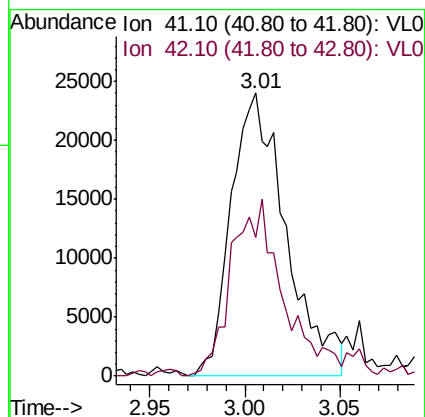
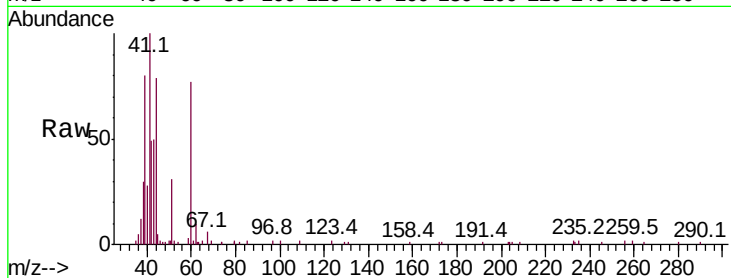
Ion Ratio Lower Upper

41 100

42 39.8 57.1 85.7#

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#10

Heptane

Concen: 0.819 ppbv

RT: 8.10 min Scan# 1654

Delta R.T. -0.01 min

Lab File: VL036283.D

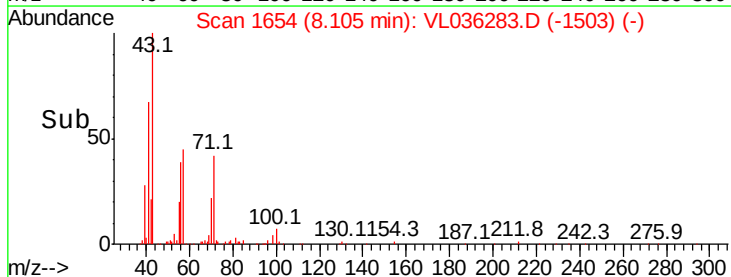
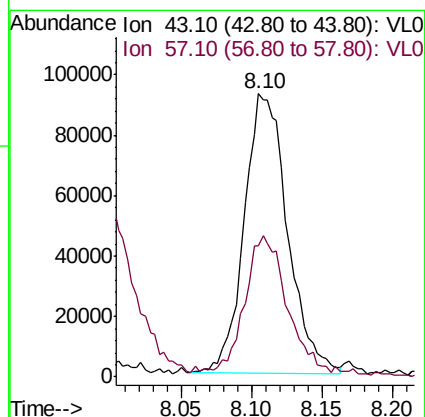
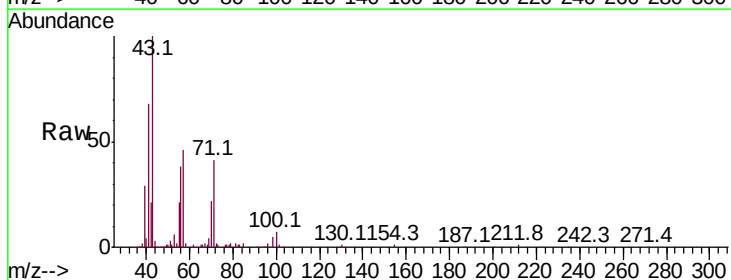
Acq: 28 Jan 2021 22:32

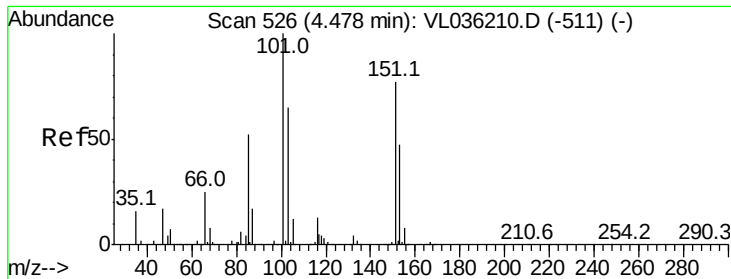
Tgt Ion: 43 Resp: 199589

Ion Ratio Lower Upper

43 100

57 51.3 38.1 57.1





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.284 ppbv m

RT: 4.47 min Scan# 524

Delta R.T. -0.01 min

Lab File: VL036283.D

Acq: 28 Jan 2021 22:32

Instrument :

MSVOA_L

ClientSampleId :

SS-2

Tot Ion:101 Resp: 39400

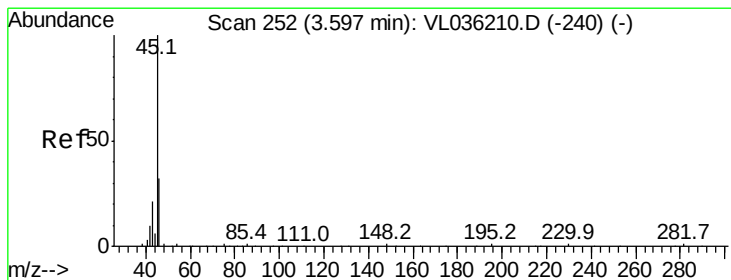
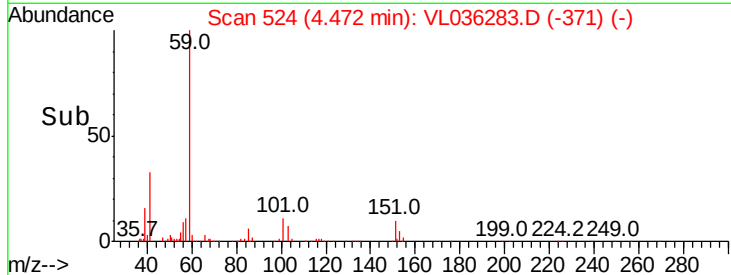
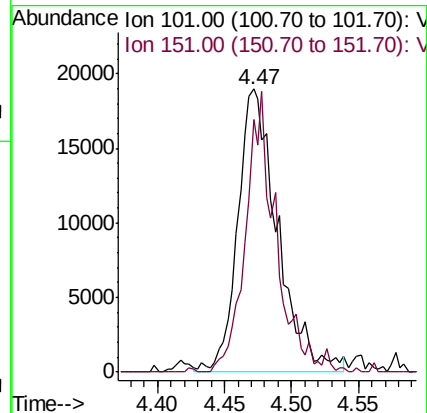
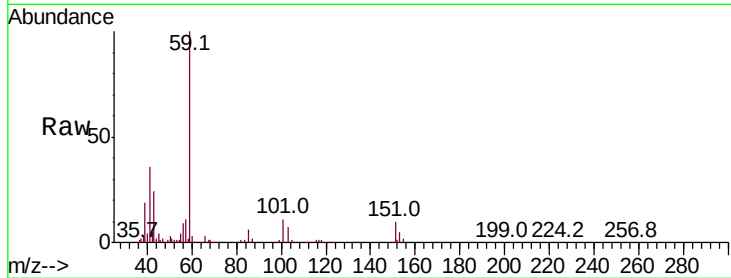
Ion Ratio Lower Upper

101 100

151 75.3 59.8 89.6

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#13

Ethanol

Concen: 1135.140 ppbv

RT: 3.68 min Scan# 278

Delta R.T. 0.08 min

Lab File: VL036283.D

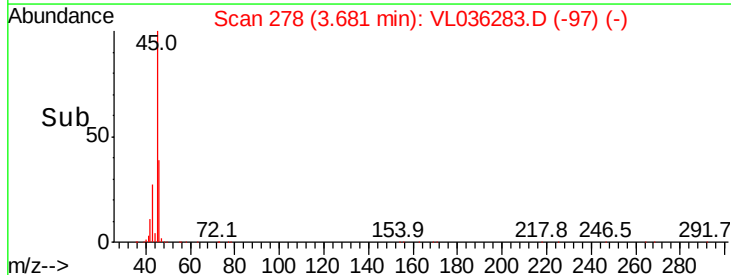
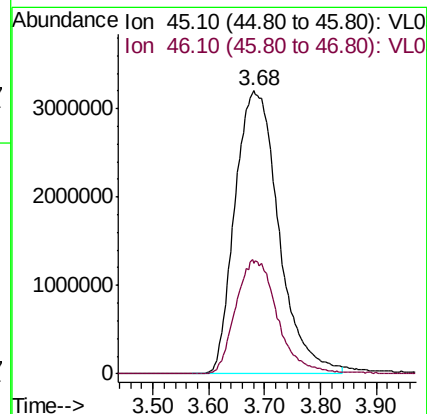
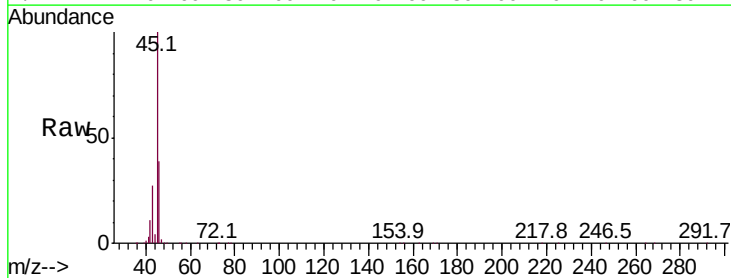
Acq: 28 Jan 2021 22:32

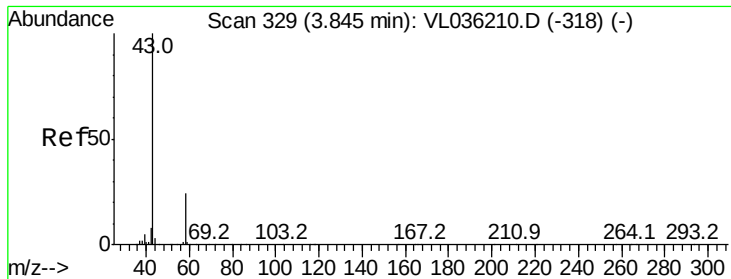
Tgt Ion: 45 Resp:17494546

Ion Ratio Lower Upper

45 100

46 38.2 19.2 77.0





#15

Acetone

Concen: 91.302 ppbv

RT: 3.84 min Scan# 327

Delta R.T. -0.01 min

Lab File: VL036283.D

Acq: 28 Jan 2021 22:32

Instrument :

MSVOA_L

ClientSampleId :

SS-2

Tot Ion: 43 Resp:18765765

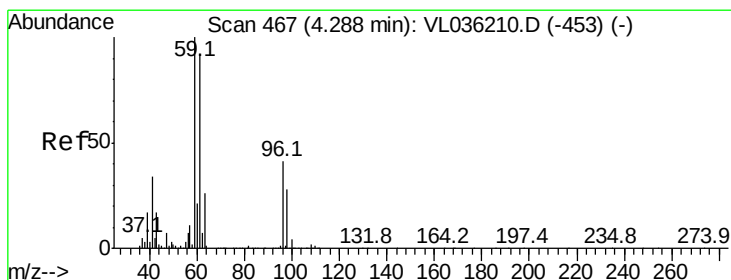
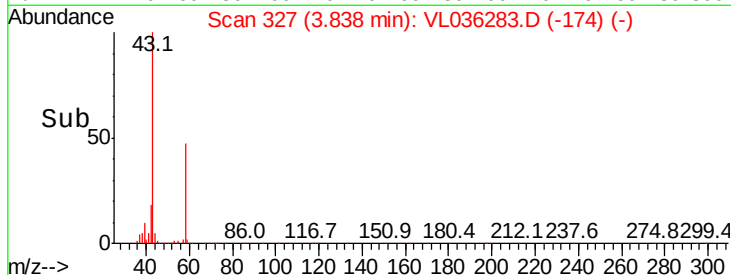
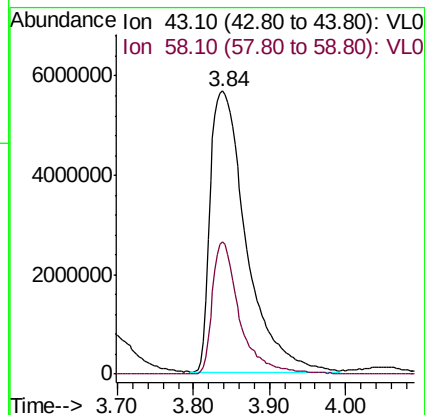
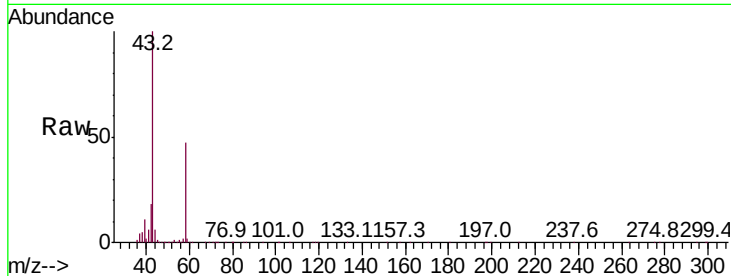
Ion Ratio Lower Upper

43 100

58 35.5 20.9 31.3#

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#17

tert-Butyl alcohol

Concen: 109.441 ppbv

RT: 4.37 min Scan# 491

Delta R.T. 0.08 min

Lab File: VL036283.D

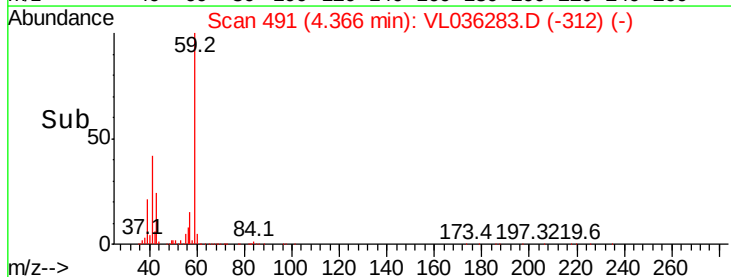
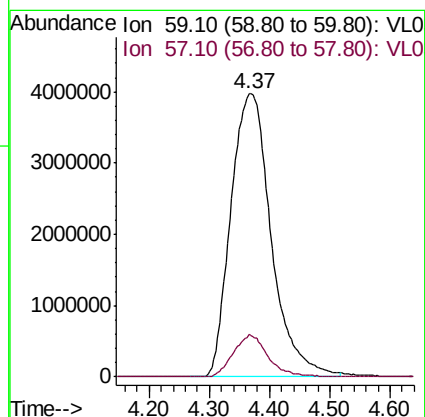
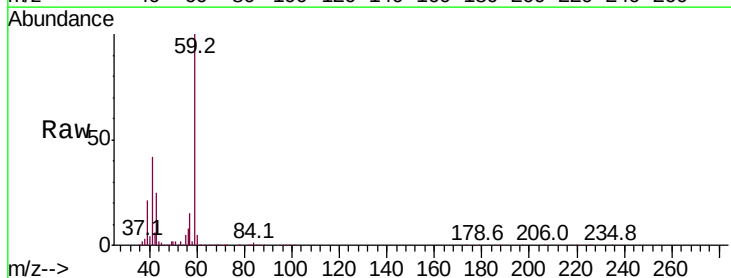
Acq: 28 Jan 2021 22:32

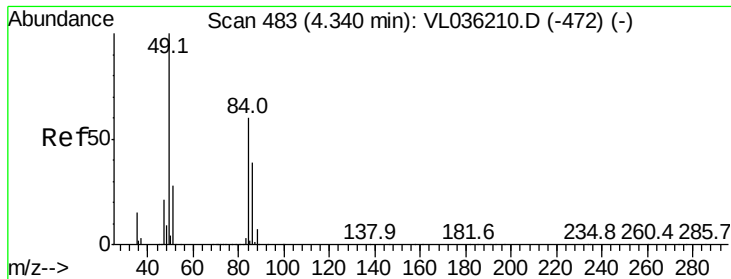
Tgt Ion: 59 Resp:18561927

Ion Ratio Lower Upper

59 100

57 12.9 9.2 13.8





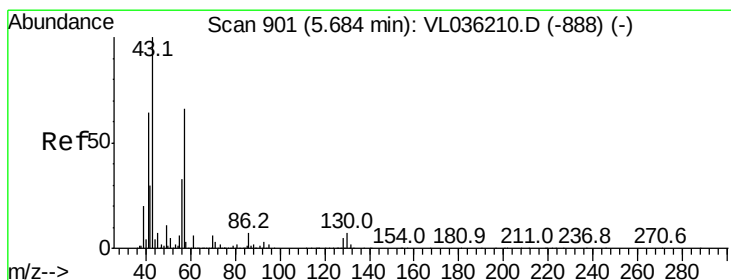
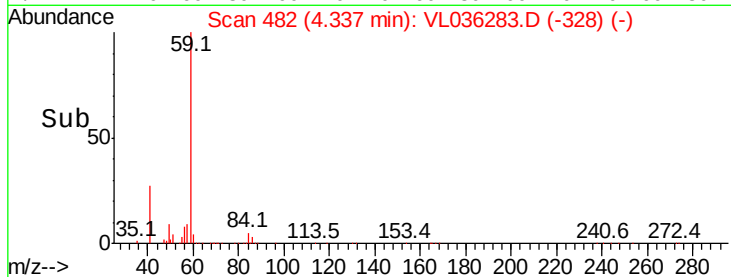
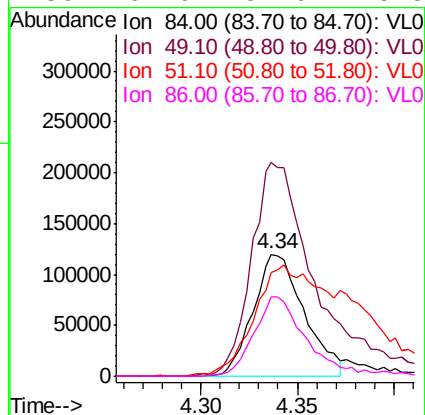
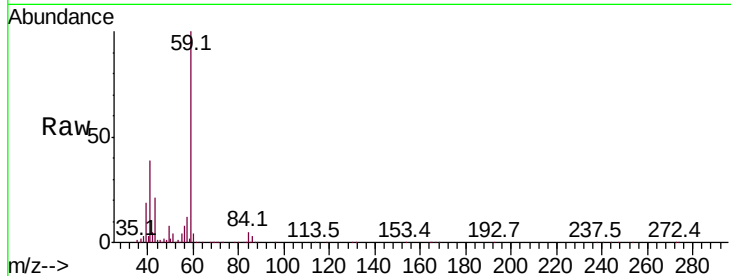
#20
Methylene Chloride
Concen: 3.364 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.00 min
Lab File: VL036283.D
Acq: 28 Jan 2021 22:32

Instrument :
MSVOA_L
ClientSampleId :
SS-2

Tot Ion	Ratio	Lower	Upper
84	100		
49	174.9	134.1	201.1
51	84.3	37.4	56.0#
86	64.6	52.6	78.8

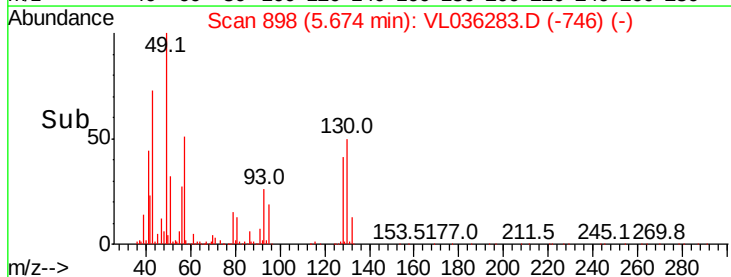
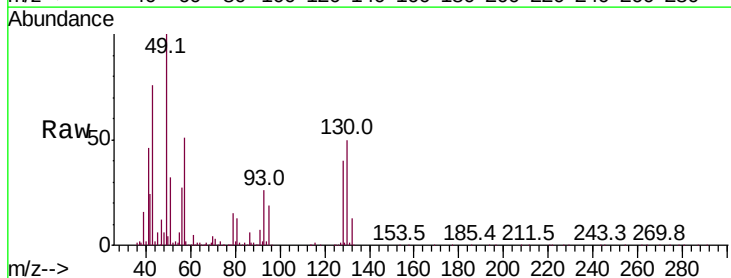
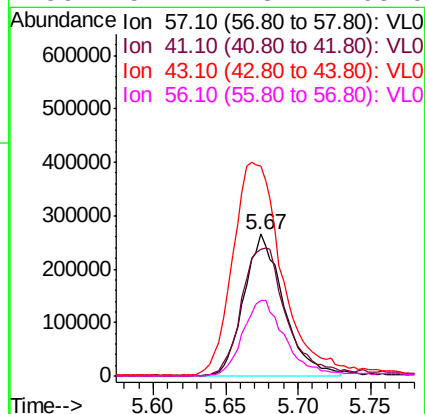
Manual Integrations
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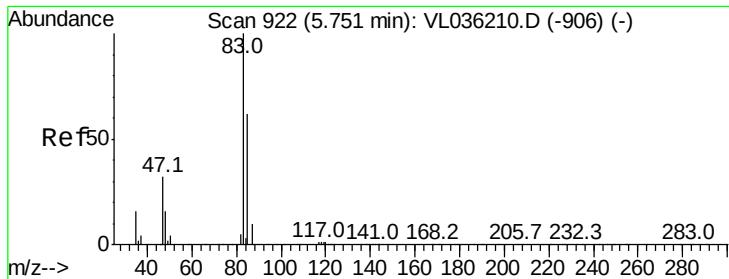
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#26
Hexane
Concen: 2.953 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL036283.D
Acq: 28 Jan 2021 22:32

Tgt Ion	Ratio	Lower	Upper
57	100		
41	104.3	83.0	124.6
43	190.2	202.4	303.6#
56	57.1	43.4	65.0





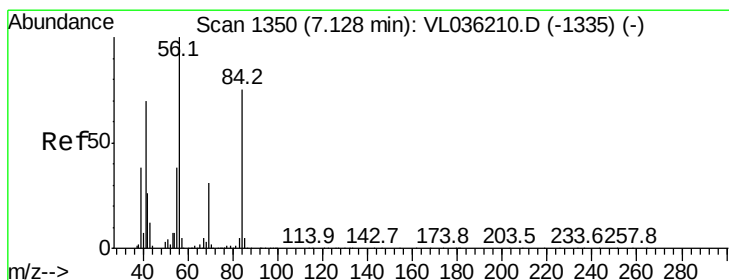
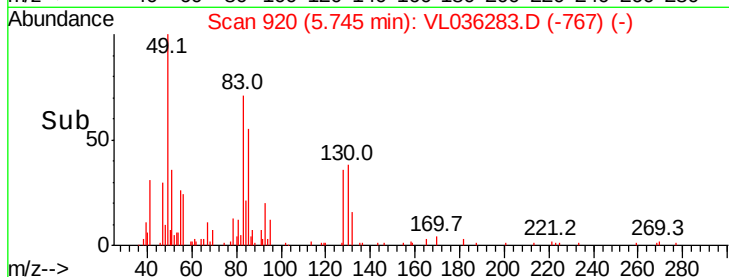
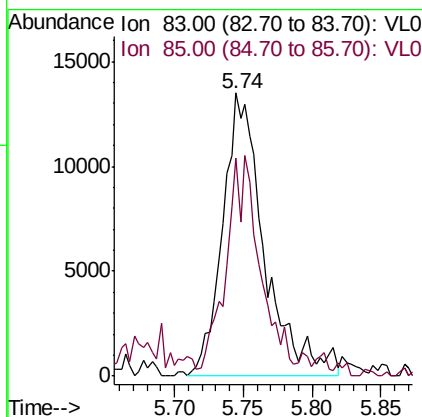
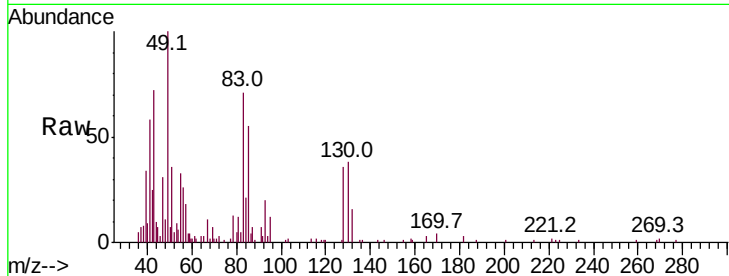
#29
Chloroform
Concen: 0.116 ppbv m
RT: 5.74 min Scan# 920
Delta R.T. -0.01 min
Lab File: VL036283.D
Acq: 28 Jan 2021 22:32

Instrument :
MSVOA_L
ClientSampled :
SS-2

Tot Ion: 83 Resp: 28508
Ion Ratio Lower Upper
83 100
85 77.1 49.3 73.9#

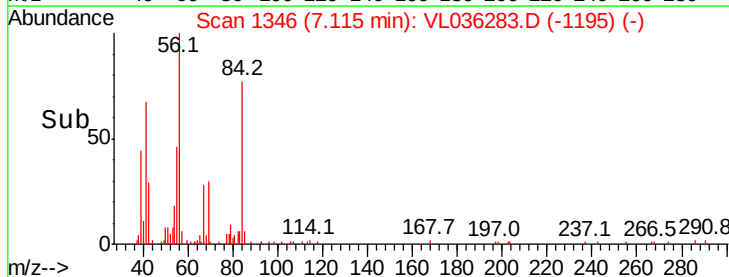
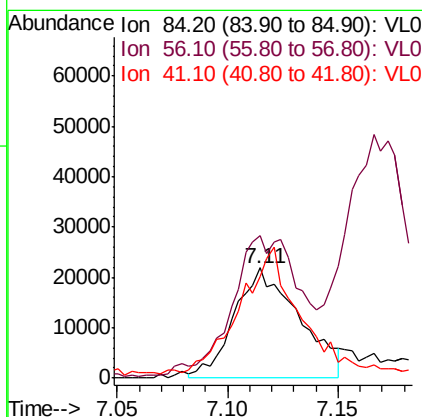
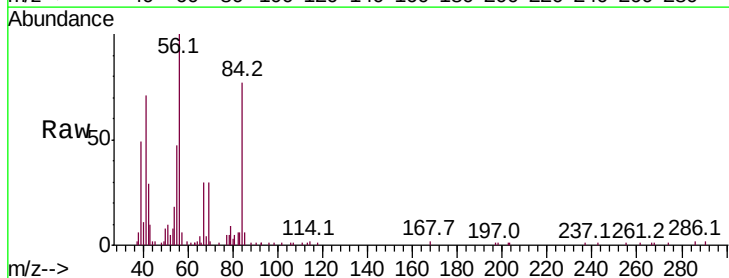
Manual Integrations
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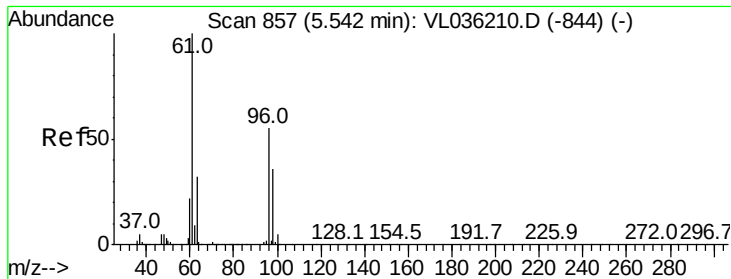
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#30
Cyclohexane
Concen: 0.341 ppbv
RT: 7.11 min Scan# 1346
Delta R.T. -0.01 min
Lab File: VL036283.D
Acq: 28 Jan 2021 22:32

Tgt Ion: 84 Resp: 44723
Ion Ratio Lower Upper
84 100
56 128.1 119.4 179.0
41 111.6 79.4 119.0





#31

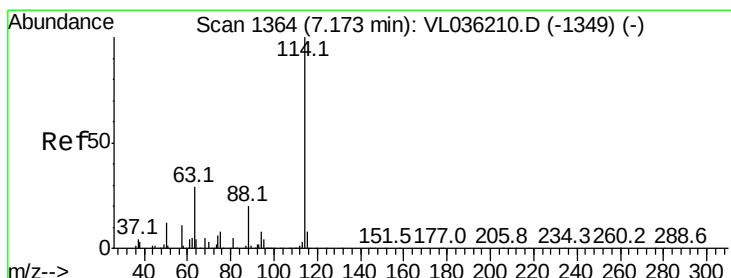
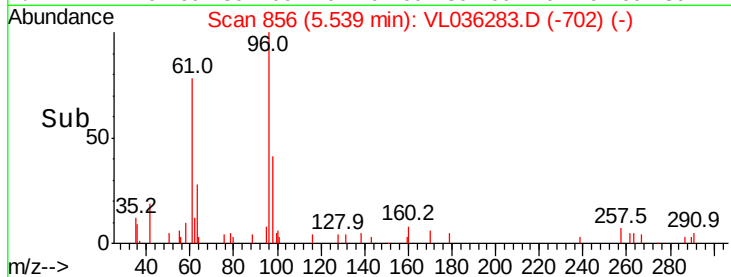
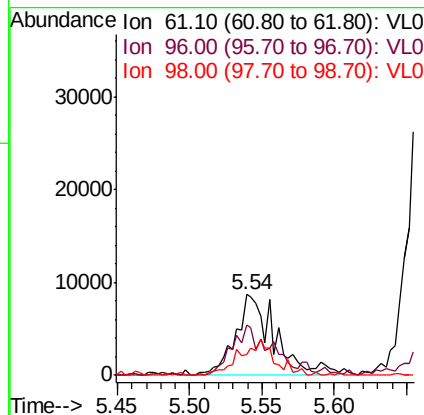
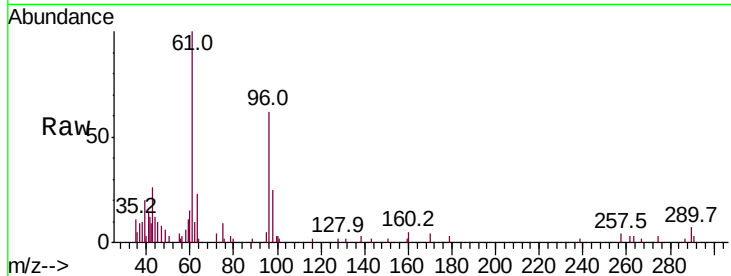
cis-1,2-Dichloroethene
Concen: 0.101 ppbv m
RT: 5.54 min Scan# 856
Delta R.T. -0.00 min
Lab File: VL036283.D
Acq: 28 Jan 2021 22:32

Instrument :
MSVOA_L
ClientSampleId :
SS-2

Tot Ion	Ratio	Lower	Upper
61	100		
96	61.7	44.1	66.1
98	25.3	28.6	42.8#

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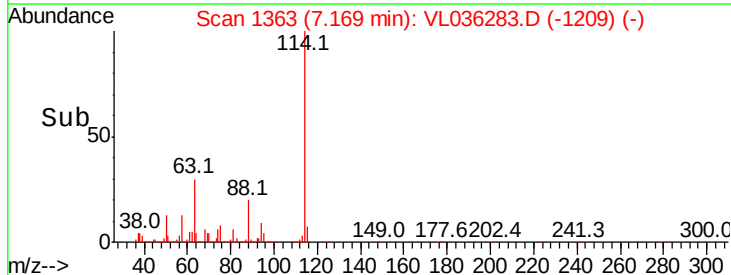
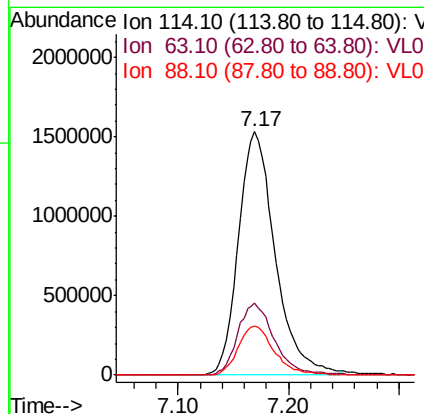
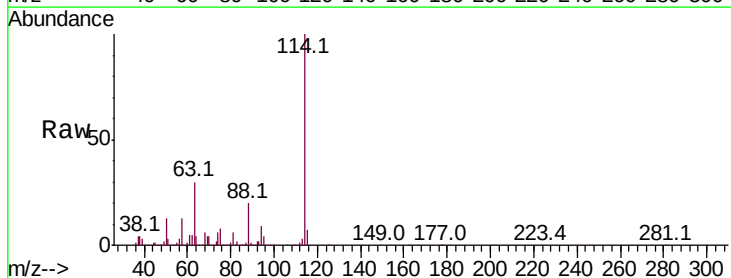
MMDadoda
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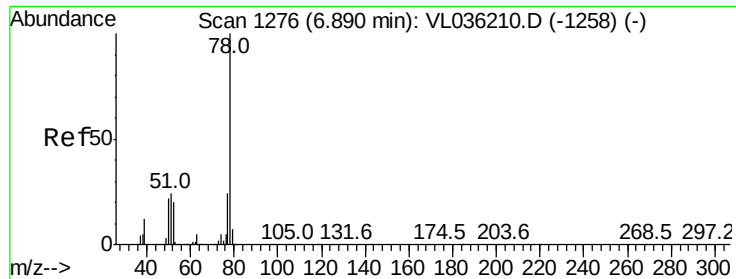


#33

1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.00 min
Lab File: VL036283.D
Acq: 28 Jan 2021 22:32

Tgt Ion	Ratio	Lower	Upper
114	100		
63	29.9	24.7	37.1
88	20.1	16.6	24.8





#36

Benzene

Concen: 0.762 ppbv

RT: 6.88 min Scan# 1274

Delta R.T. -0.01 min

Lab File: VL036283.D

Acq: 28 Jan 2021 22:32

Instrument :

MSVOA_L

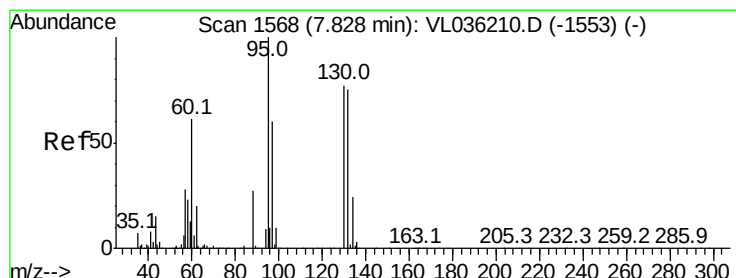
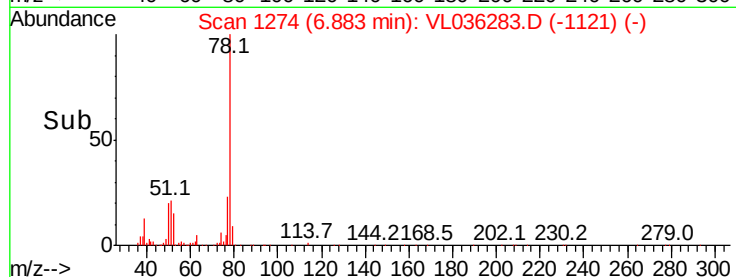
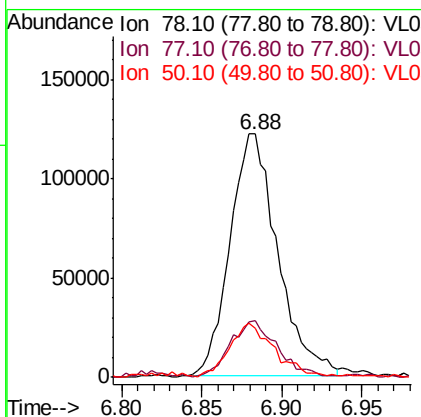
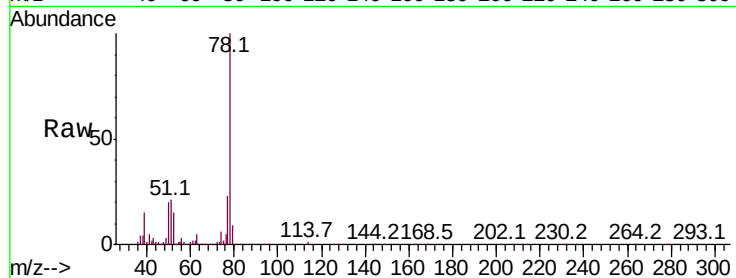
ClientSampleId :

SS-2

Tot Ion:	78	Resp:	246891
Ion	Ratio	Lower	Upper
78	100		
77	22.9	19.4	29.0
50	19.8	17.4	26.2

Manual Integrations
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#38

Trichloroethene

Concen: 3.840 ppbv

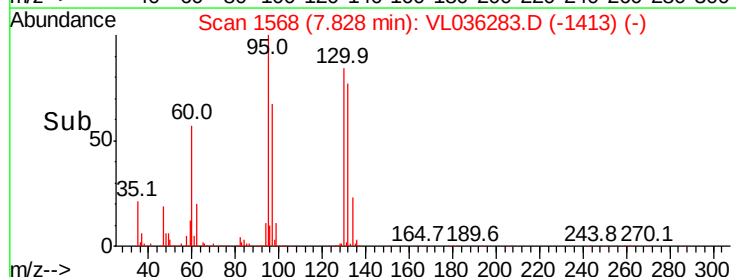
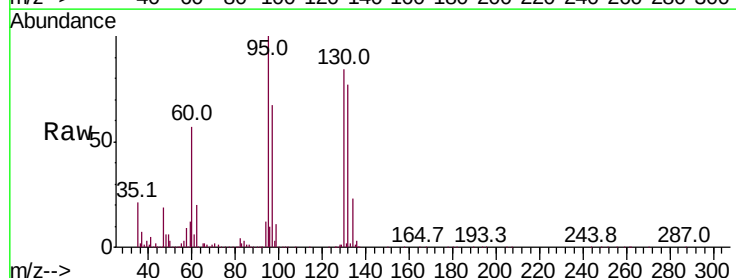
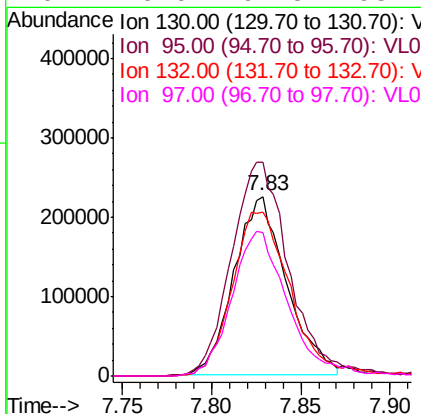
RT: 7.83 min Scan# 1568

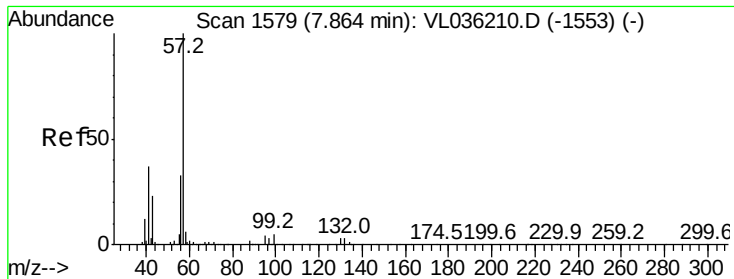
Delta R.T. -0.00 min

Lab File: VL036283.D

Acq: 28 Jan 2021 22:32

Tgt Ion:	130	Resp:	460959
Ion	Ratio	Lower	Upper
130	100		
95	118.6	103.9	155.9
132	90.9	77.4	116.2
97	79.0	62.5	93.7





#44

2,2,4-Trimethylpentane

Concen: 0.464 ppbv m

RT: 7.86 min Scan# 1577

Delta R.T. -0.01 min

Lab File: VL036283.D

Acq: 28 Jan 2021 22:32

Instrument :

MSVOA_L

ClientSampled :

SS-2

Tot Ion: 57 Resp: 276457

Ion Ratio Lower Upper

57 100

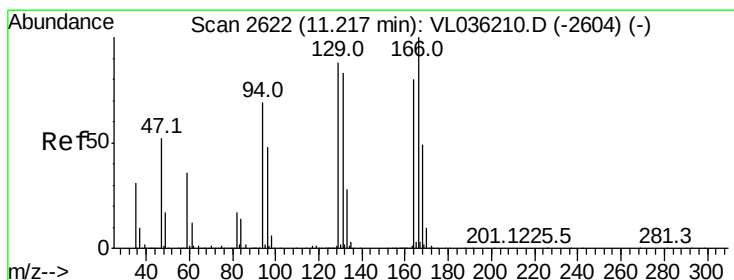
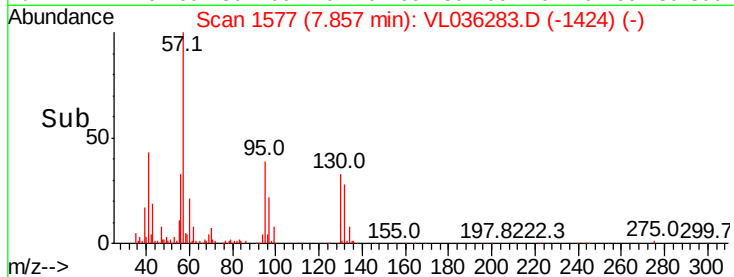
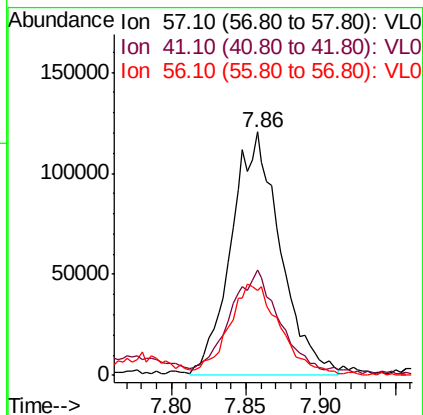
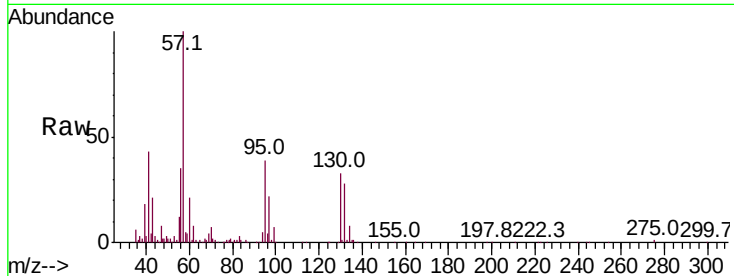
41 43.4 28.5 42.7#

56 0.0 25.5 38.3#

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#52

Tetrachloroethene

Concen: 0.114 ppbv m

RT: 11.22 min Scan# 2622

Delta R.T. -0.00 min

Lab File: VL036283.D

Acq: 28 Jan 2021 22:32

Tgt Ion: 164 Resp: 13640

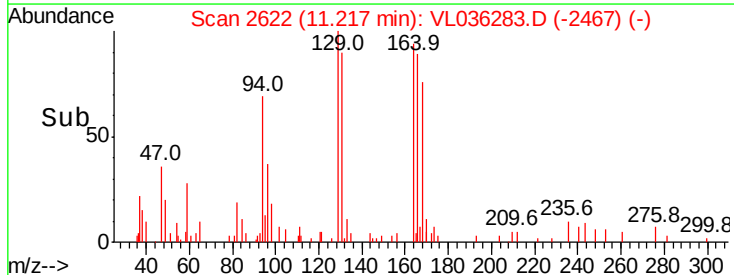
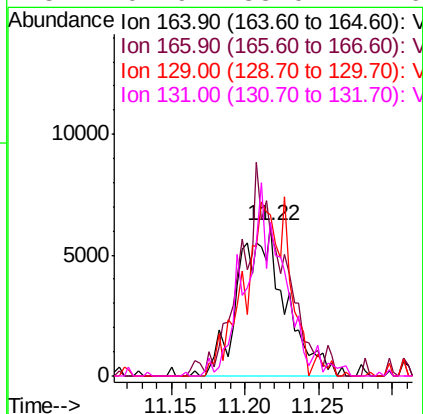
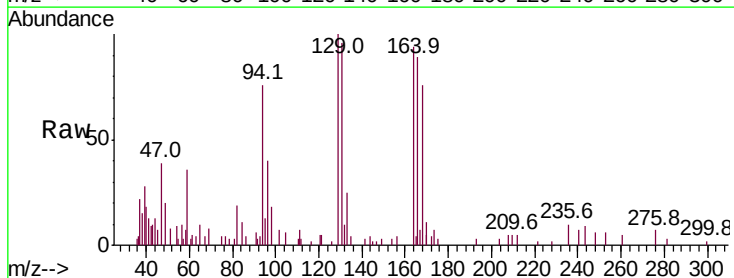
Ion Ratio Lower Upper

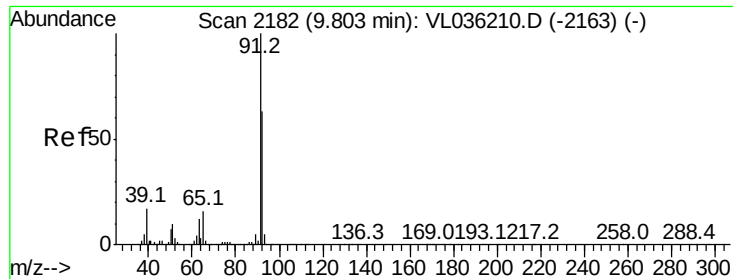
164 100

166 95.1 99.9 149.9#

129 106.7 88.2 132.4

131 101.9 83.0 124.6





#53

Toluene

Concen: 6.458 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. -0.01 min

Lab File: VL036283.D

Acq: 28 Jan 2021 22:32

Instrument :

MSVOA_L

ClientSampled :

SS-2

Tot Ion: 91 Resp: 2341091

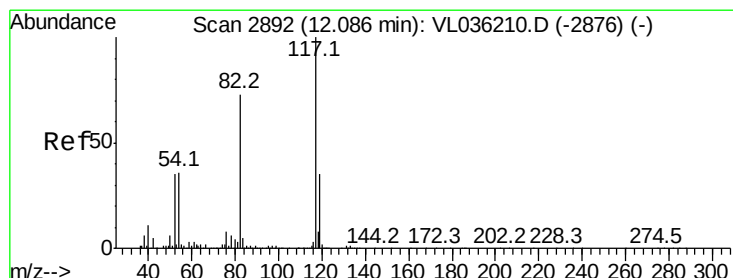
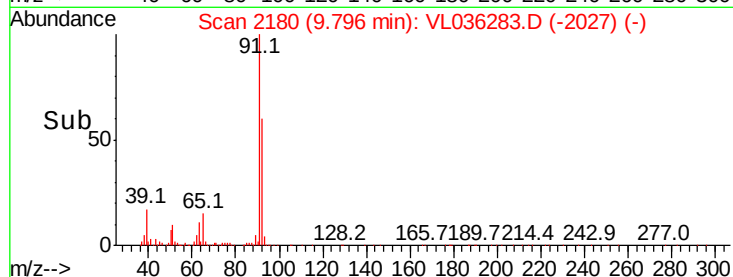
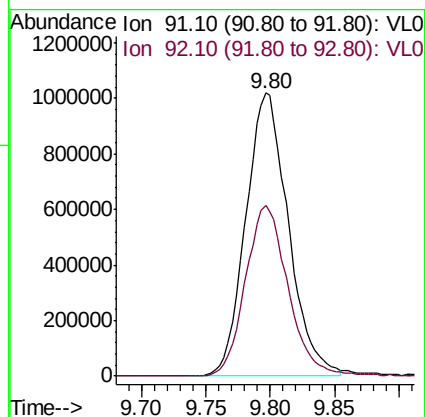
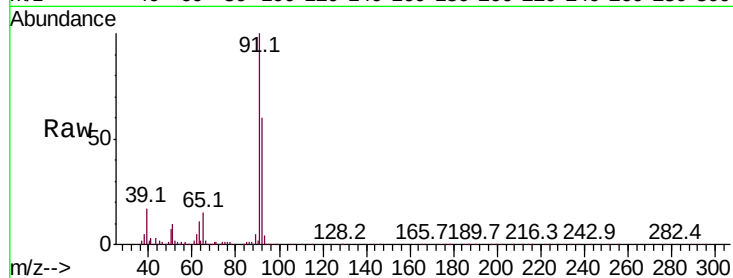
Ion Ratio Lower Upper

91 100

92 60.9 48.5 72.7

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. -0.00 min

Lab File: VL036283.D

Acq: 28 Jan 2021 22:32

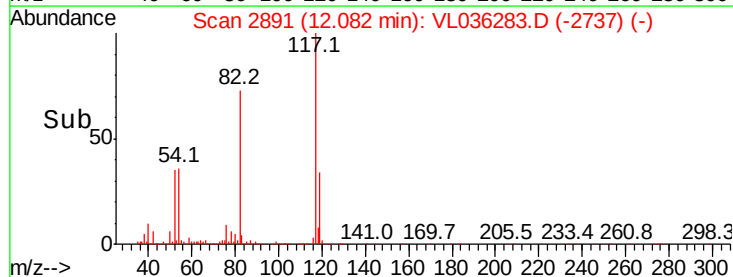
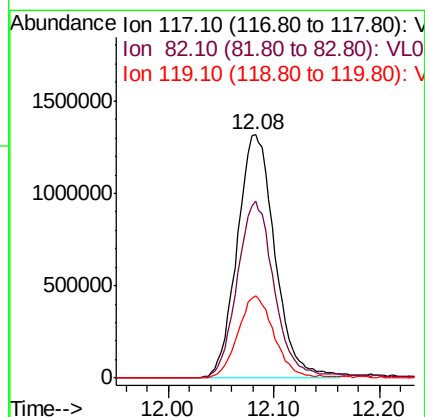
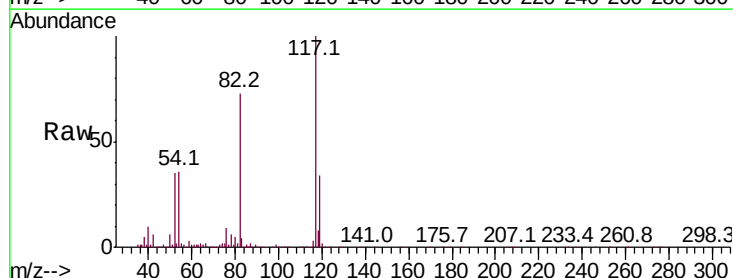
Tgt Ion: 117 Resp: 3278240

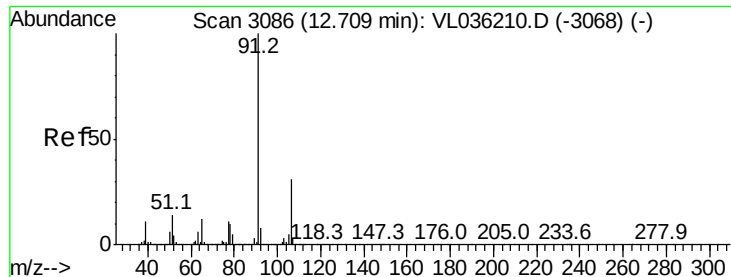
Ion Ratio Lower Upper

117 100

82 73.4 59.7 89.5

119 33.5 28.6 43.0





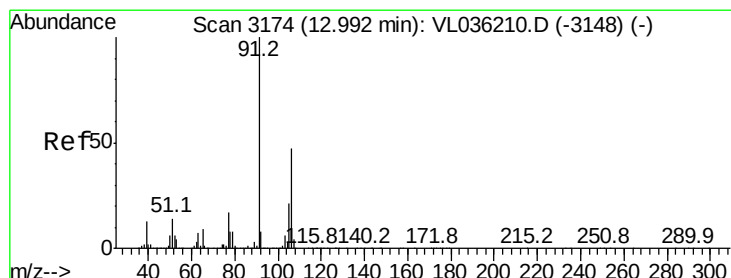
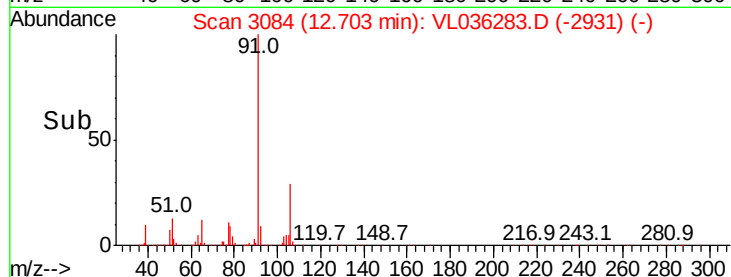
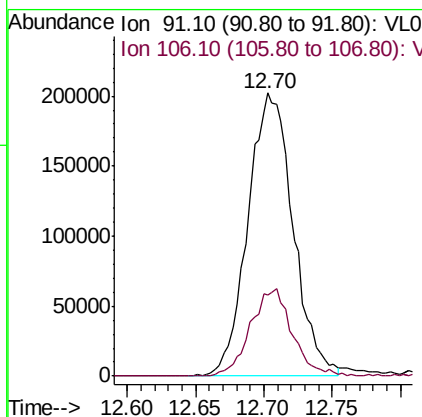
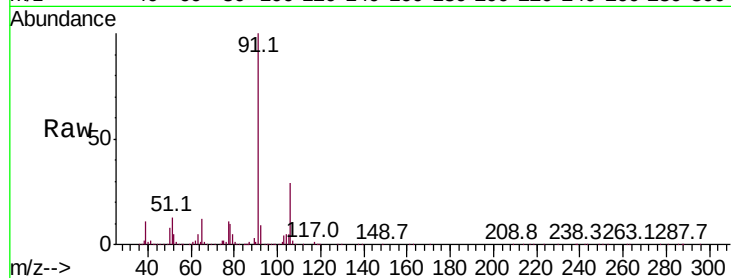
#58
Ethyl Benzene
Concen: 0.951 ppbv
RT: 12.70 min Scan# 3084
Delta R.T. -0.01 min
Lab File: VL036283.D
Acq: 28 Jan 2021 22:32

Instrument :
MSVOA_L
ClientSampled :
SS-2

Tot Ion	Ratio	Lower	Upper
91	100		
106	28.8	24.8	37.2

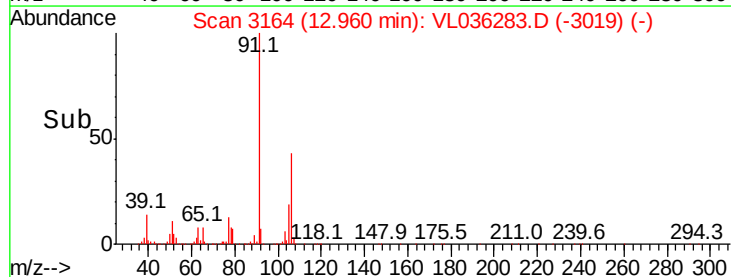
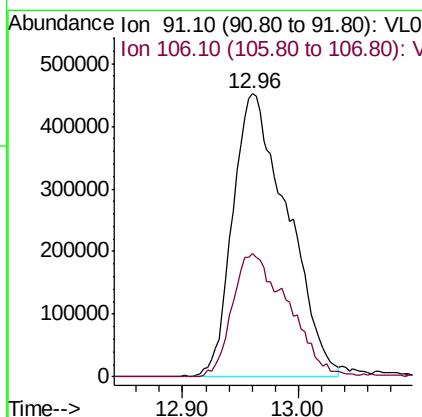
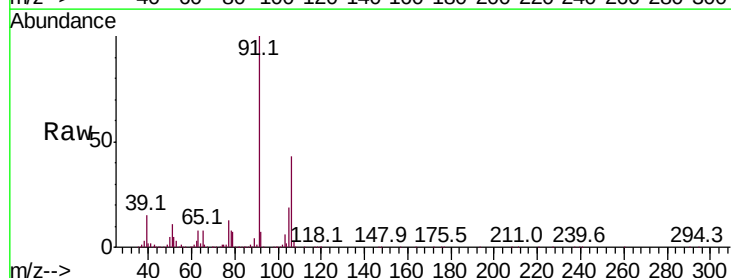
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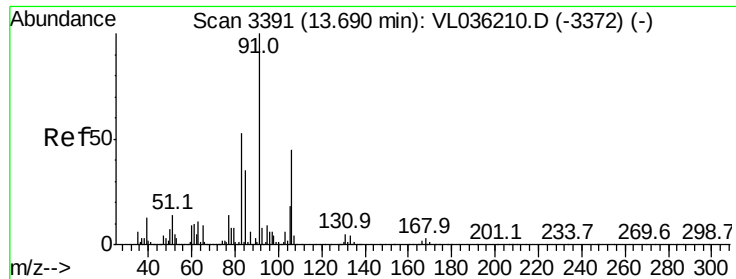
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#59
m/p-Xylene
Concen: 3.505 ppbv
RT: 12.96 min Scan# 3164
Delta R.T. -0.03 min
Lab File: VL036283.D
Acq: 28 Jan 2021 22:32

Tgt Ion	Ratio	Lower	Upper
91	100		
106	45.7	34.6	51.8





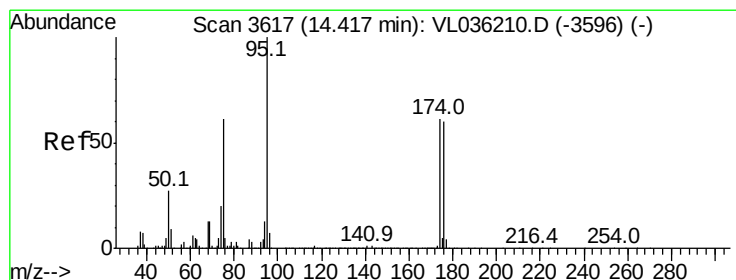
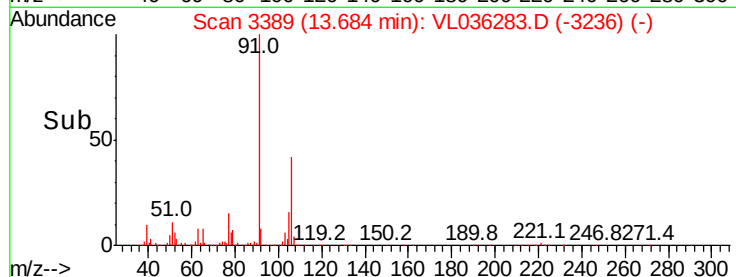
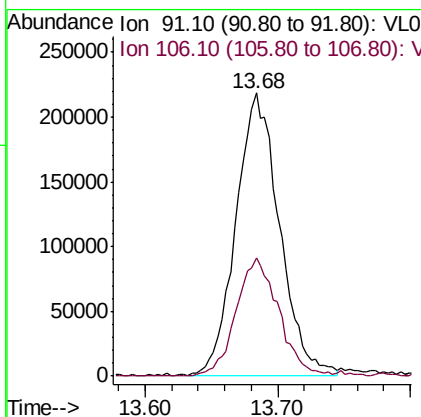
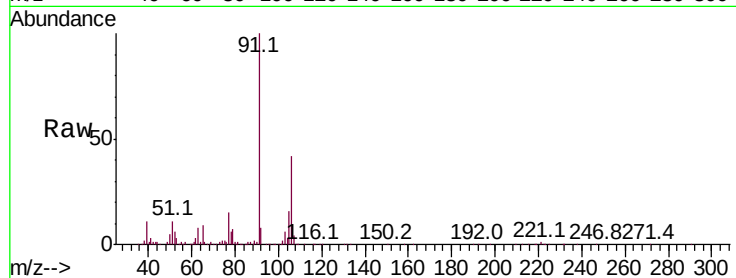
#60
o-Xylene
Concen: 1.233 ppbv
RT: 13.68 min Scan# 3389
Delta R.T. -0.01 min
Lab File: VL036283.D
Acq: 28 Jan 2021 22:32

Instrument :
MSVOA_L
ClientSampled :
SS-2

Tot Ion	Ratio	Lower	Upper
91	100		
106	42.3	21.9	65.8

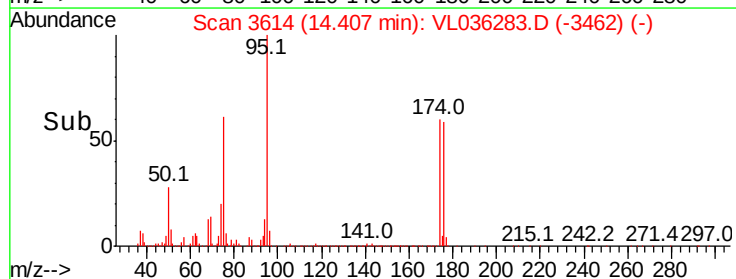
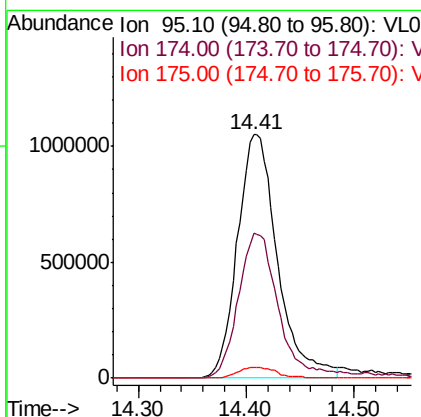
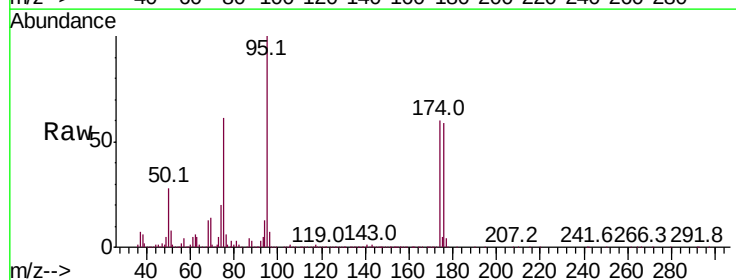
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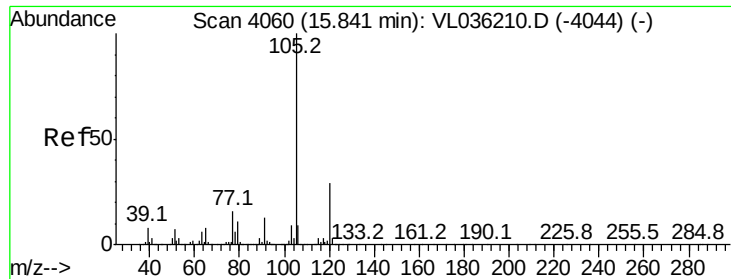
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.009 ppbv
RT: 14.41 min Scan# 3614
Delta R.T. -0.01 min
Lab File: VL036283.D
Acq: 28 Jan 2021 22:32

Tgt Ion	Ratio	Lower	Upper
95	100		
174	62.6	49.4	74.0
175	4.7	3.8	5.8





#72

4-Ethyltoluene

Concen: 0.268 ppbv m

RT: 15.83 min Scan# 4056

Delta R.T. -0.01 min

Lab File: VL036283.D

Acq: 28 Jan 2021 22:32

Instrument :

MSVOA_L

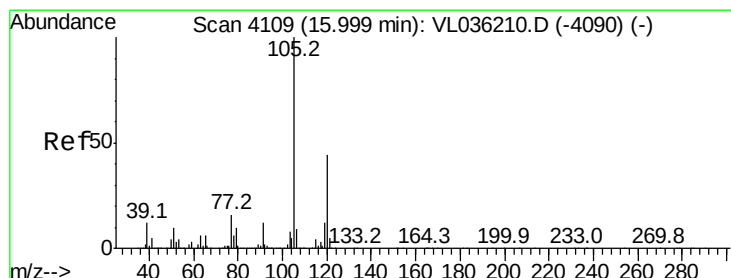
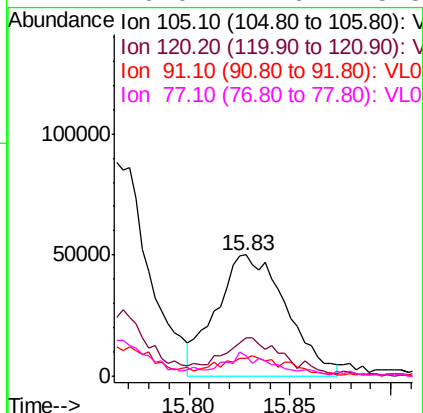
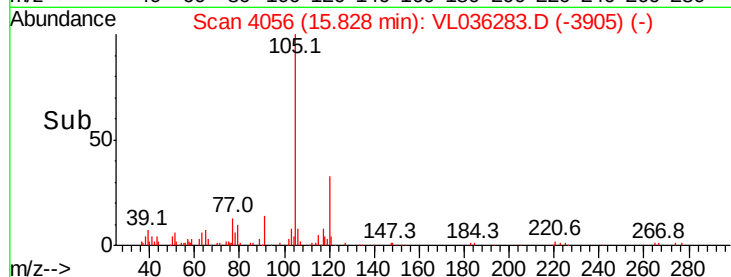
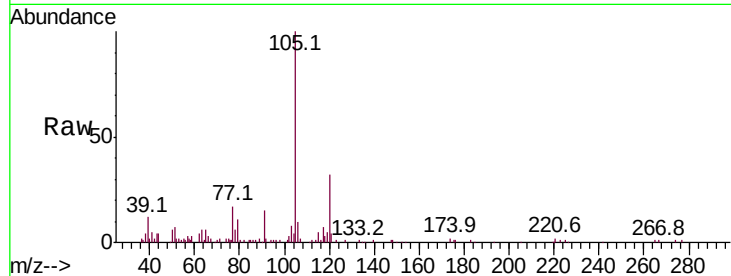
ClientSampled :

SS-2

Tot Ion	Ratio	Resp	Lower	Upper
105	100			
120	0.0	23.7	35.5#	
91	0.0	11.9	17.9#	
77	0.0	12.6	18.8#	

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#73

1,3,5-Trimethylbenzene

Concen: 0.150 ppbv

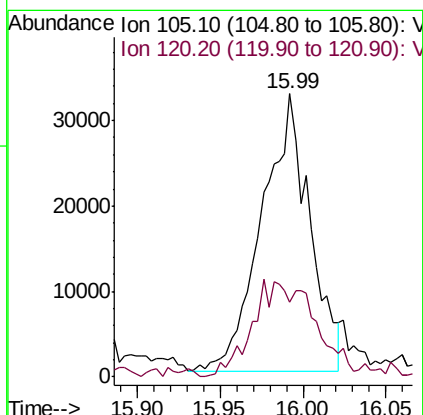
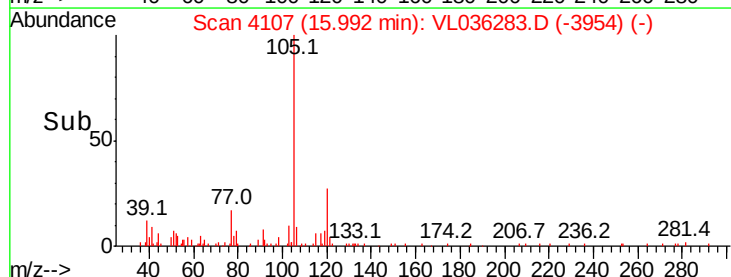
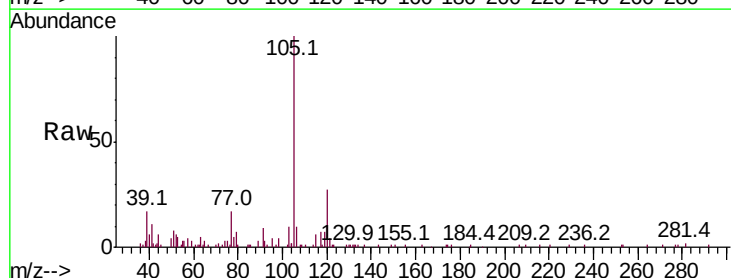
RT: 15.99 min Scan# 4107

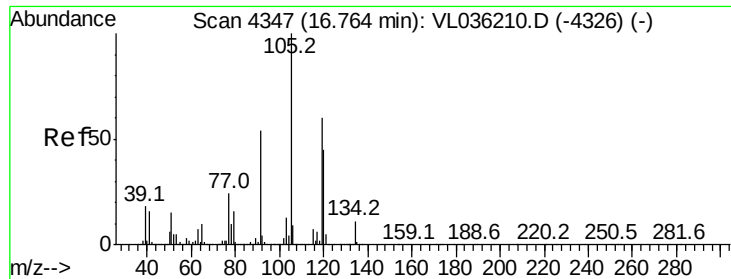
Delta R.T. -0.01 min

Lab File: VL036283.D

Acq: 28 Jan 2021 22:32

Tgt Ion	Ratio	Resp	Lower	Upper
105	100			
120	24.0	35.5	53.3#	





#74

1,2,4-Trimethylbenzene

Concen: 0.618 ppbv

RT: 16.75 min Scan# 4343

Delta R.T. -0.01 min

Lab File: VL036283.D

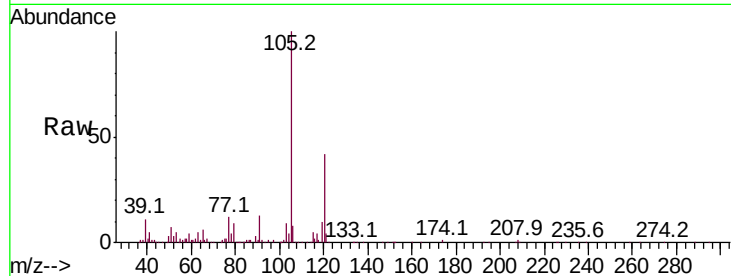
Acq: 28 Jan 2021 22:32

Instrument :

MSVOA_L

ClientSampleId :

SS-2



Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	40.3	36.2	54.2
91	13.4	43.3	64.9#
77	11.8	19.1	28.7#

Manual Integrations
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