

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101920\
 Data File : VL035796.D
 Acq On : 19 Oct 2020 16:19
 Operator : SY/AP
 Sample : L4214-15 MDL 0.1
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT4-2020

Quant Time: Oct 20 08:11:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 23 07:38:05 2020
 QLast Update : Wed Sep 23 07:38:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1082249	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.16	114	3979515	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.08	117	3956167	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2982599	10.06	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	27462	0.155	ppbv	96
3) Chlorodifluoromethane	2.97	51	14930	0.128	ppbv	98
4) Chloromethane	3.12	50	7964	0.127	ppbv	93
5) Vinyl Chloride	3.24	62	8443	0.114	ppbv #	86
6) Bromomethane	3.45	94	3667	0.059	ppbv	90
7) Chloroethane	3.54	64	2515	0.093	ppbv #	83
8) Dichlorotetrafluoroethane	3.17	85	27057	0.126	ppbv	98
9) Propene	2.99	41	6761	0.160	ppbv	87
10) Heptane	8.11	43	6315	0.054	ppbv	99
11) Trichlorofluoromethane	3.93	101	31669	0.125	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.47	101	23218	0.123	ppbv	97
13) Ethanol	3.59	45	819	0.079	ppbv #	38
14) Bromoethene	3.72	108	7612	0.096	ppbv #	91
15) Acetone	3.85	43	29551	0.254	ppbv #	72
17) tert-Butyl alcohol	4.30	59	15797	0.125	ppbv	99
18) 1,1-Dichloroethene	4.27	96	9331	0.113	ppbv	87
19) Isopropyl Alcohol	3.97	45	6406	0.101	ppbv #	89
20) Methylene Chloride	4.33	84	22323	0.261	ppbv	94
21) Allvl Chloride	4.40	41	3282	0.058	ppbv #	33
22) trans-1,2-Dichloroethene	4.86	96	11167	0.128	ppbv #	78
23) Vinyl Acetate	5.06	43	14250	0.100	ppbv #	82
24) 1,1-Dichloroethane	4.99	63	18787	0.121	ppbv	97
25) Ethyl Acetate	5.67	43	22831	0.109	ppbv #	96
26) Hexane	5.67	57	11548	0.101	ppbv #	81
27) Carbon Disulfide	4.53	76	18195	0.106	ppbv #	79
28) Methyl tert-Butyl Ether	5.04	73	15262	0.084	ppbv	99
29) Chloroform	5.73	83	29182	0.125	ppbv	88
31) cis-1,2-Dichloroethene	5.53	61	8447	0.076	ppbv #	80
32) 1,1,1-Trichloroethane	6.49	97	20805	0.101	ppbv	96
34) 2-Butanone	5.25	43	12056	0.092	ppbv	100
35) Carbon Tetrachloride	7.00	117	22064	0.106	ppbv #	95
36) Benzene	6.87	78	19108	0.074	ppbv #	91
37) 1,2-Dichloroethane	6.29	62	14923	0.110	ppbv	100
38) Trichloroethene	7.82	130	12591	0.097	ppbv #	73
39) 1,2-Dichloropropane	7.59	63	10617	0.113	ppbv #	84
42) Bromodichloromethane	7.78	83	22597	0.104	ppbv #	81
44) 2,2,4-Trimethylpentane	7.85	57	23336	0.063	ppbv #	78
46) cis-1,3-Dichloropropene	8.69	75	8015	0.062	ppbv #	89
47) 1,1,2-Trichloroethane	9.47	97	14021	0.104	ppbv #	89
48) Dibromochloromethane	10.29	129	16001	0.078	ppbv	98
49) Bromoform	13.03	173	12628	0.073	ppbv	96

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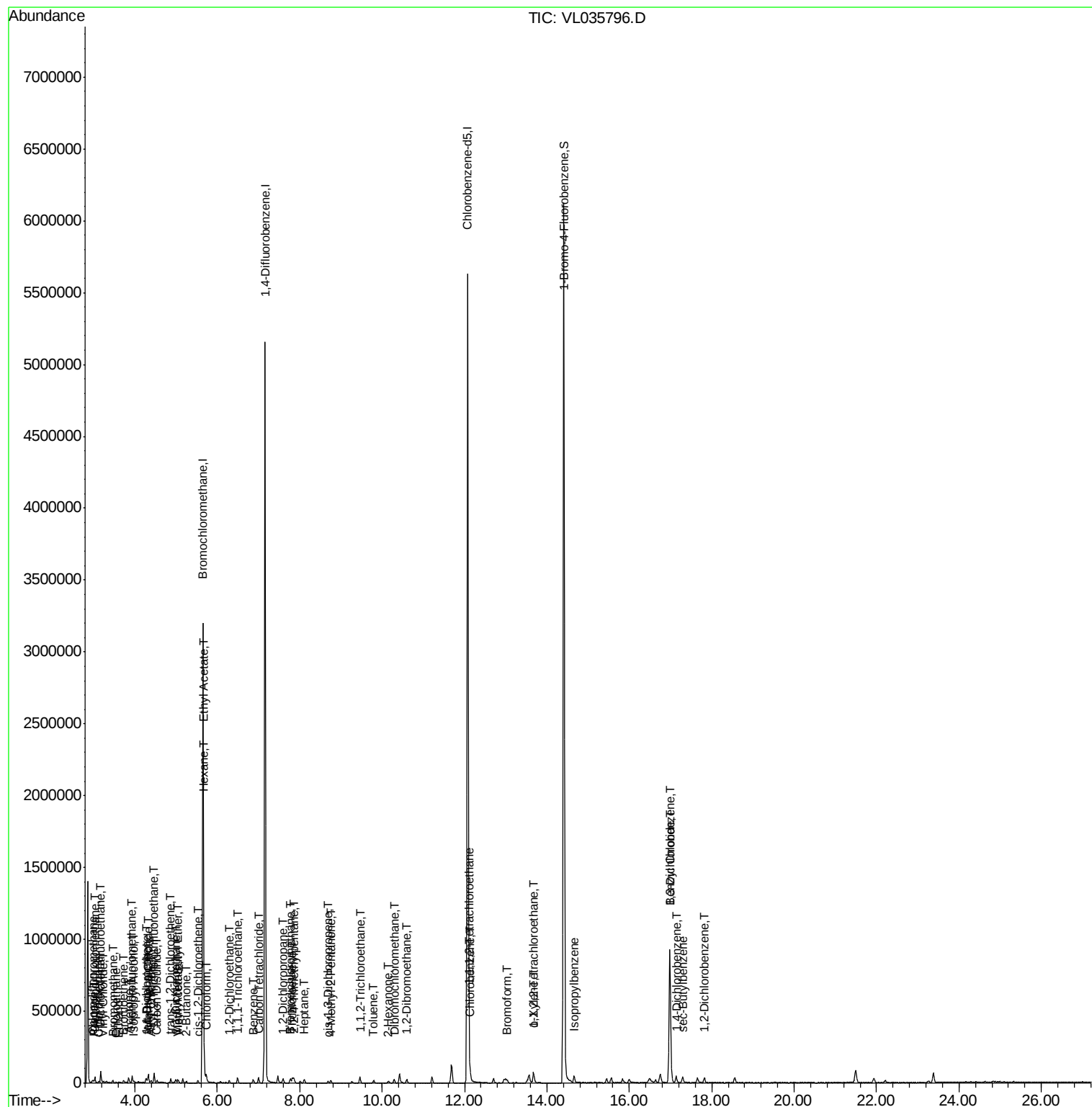
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 4-Methyl-2-Pentanone	8.75	43	7724	0.040	ppbv #	77
51) 2-Hexanone	10.15	43	7826	0.051	ppbv #	93
53) Toluene	9.79	91	13177	0.043	ppbv #	19
54) 1,2-Dibromoethane	10.60	107	18920	0.094	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.12	131	18125	0.109	ppbv #	1
57) Chlorobenzene	12.13	112	35528	0.119	ppbv #	94
60) o-Xylene	13.68	91	16270	0.046	ppbv	75
62) Isopropylbenzene	14.66	105	34225	0.063	ppbv	95
63) 1,1,2,2-Tetrachloroethane	13.67	83	32300	0.112	ppbv	99
66) Benzyl Chloride	16.98	91	5313	0.035	ppbv #	1
67) sec-Butylbenzene	17.29	105	23329	0.034	ppbv #	82
75) 1,3-Dichlorobenzene	16.99	146	18534	0.061	ppbv #	21
76) 1,4-Dichlorobenzene	17.13	146	11379	0.039	ppbv #	24
77) 1,2-Dichlorobenzene	17.82	146	10256	0.036	ppbv #	23

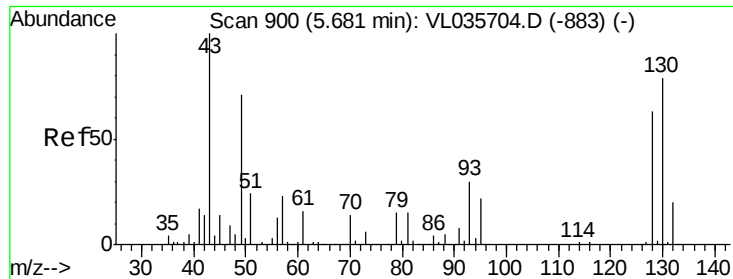
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.03 min

Lab File: VL035796.D

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Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

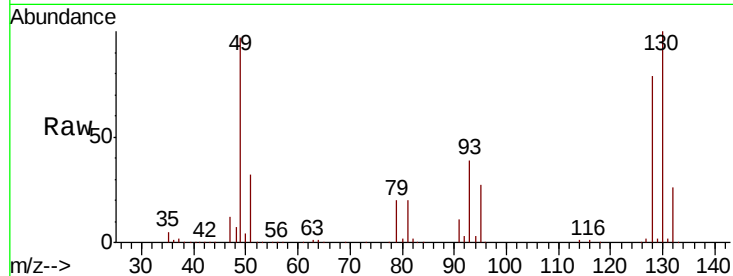
Tot Ion: 49 Resp: 1082249

Ion Ratio Lower Upper

49 100

128 82.4 43.1 129.4

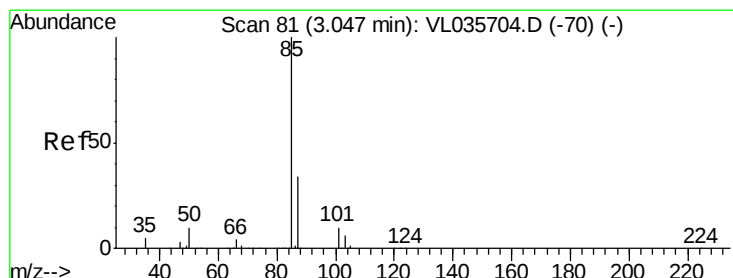
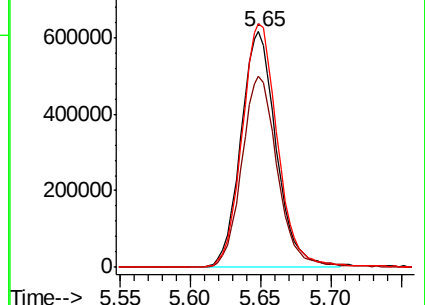
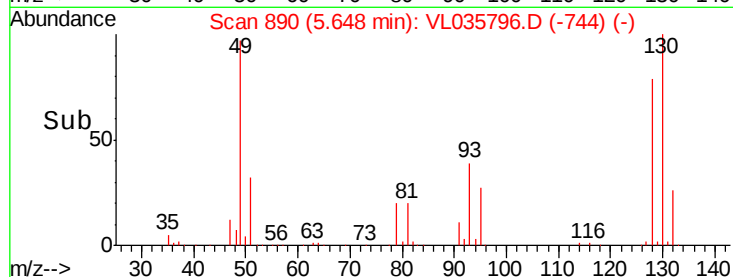
130 104.7 54.9 164.7



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: 0.155 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.02 min

Lab File: VL035796.D

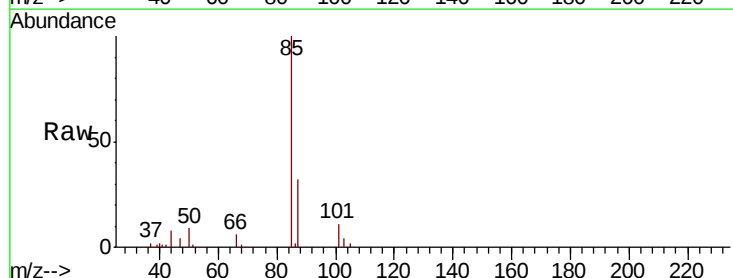
Acq: 19 Oct 2020 16:19

Tgt Ion: 85 Resp: 27462

Ion Ratio Lower Upper

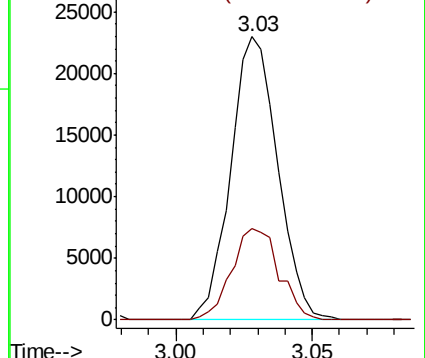
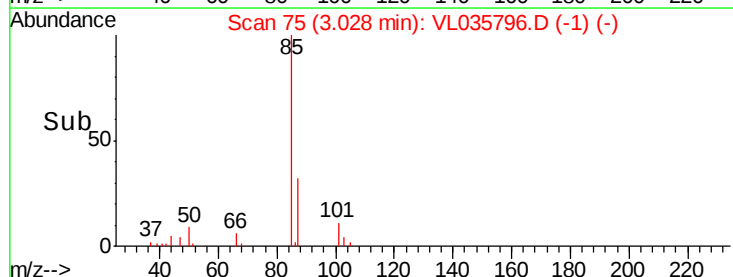
85 100

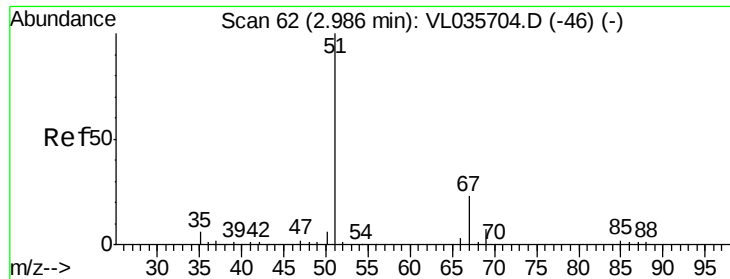
87 32.1 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

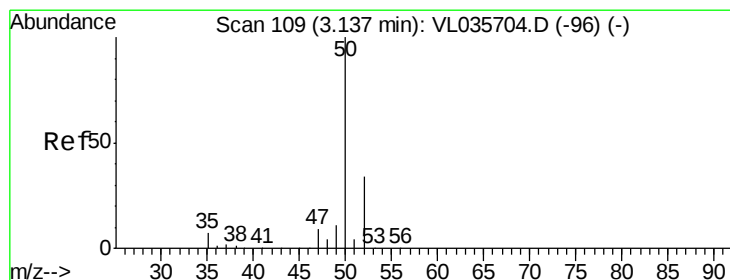
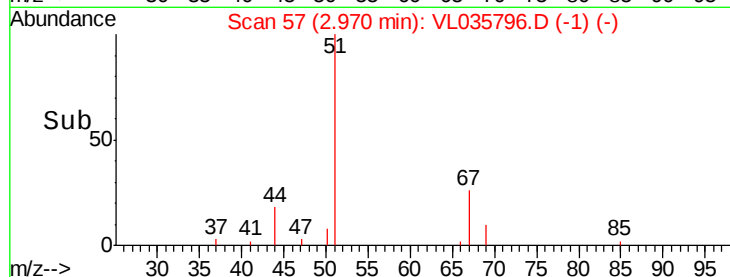
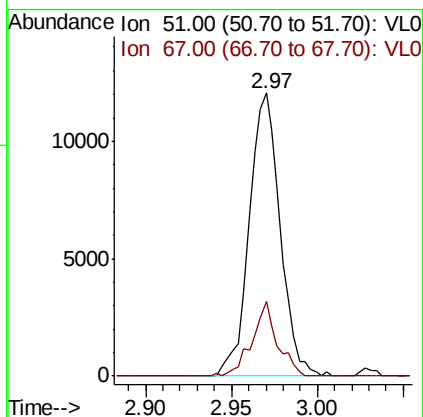
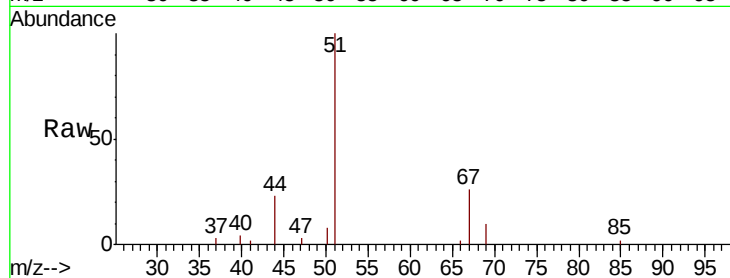




#3
Chlorodifluoromethane
Concen: 0.128 ppbv
RT: 2.97 min Scan# 57
Delta R.T. -0.02 min
Lab File: VL035796.D
Acq: 19 Oct 2020 16:19

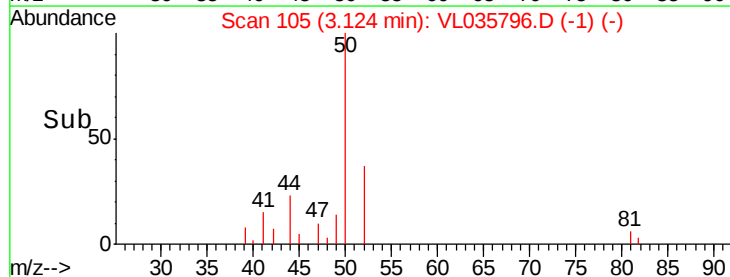
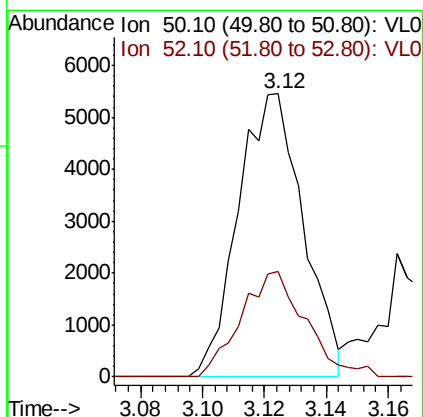
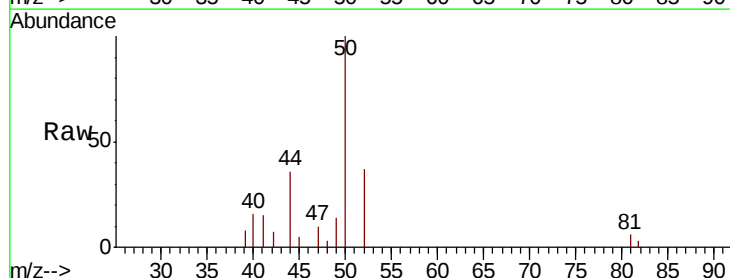
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT4-2020

Tot Ion: 51 Resp: 14930
Ion Ratio Lower Upper
51 100
67 21.5 17.8 26.8



#4
Chloromethane
Concen: 0.127 ppbv
RT: 3.12 min Scan# 105
Delta R.T. -0.01 min
Lab File: VL035796.D
Acq: 19 Oct 2020 16:19

Tgt Ion: 50 Resp: 7964
Ion Ratio Lower Upper
50 100
52 37.3 26.8 40.2





#5

Vinyl Chloride

Concen: 0.114 ppbv

RT: 3.24 min Scan# 140

Delta R.T. -0.02 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

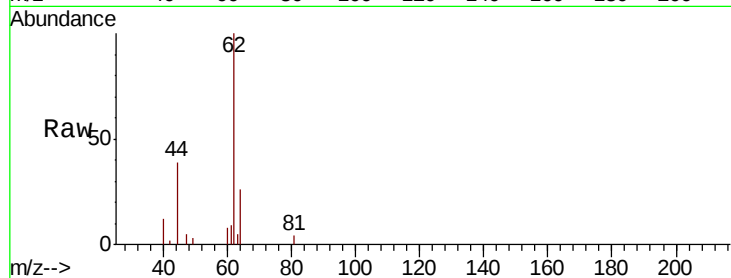
MDL-AIR-01-QT4-2020

Tot Ion: 62 Resp: 8443

Ion Ratio Lower Upper

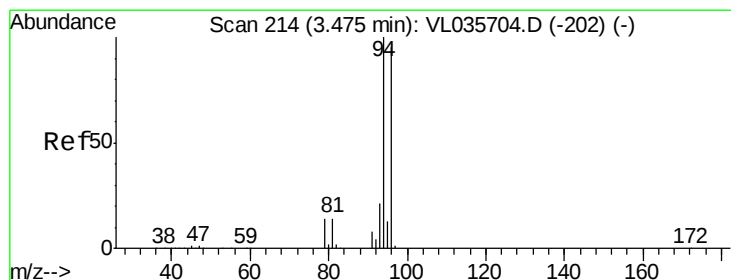
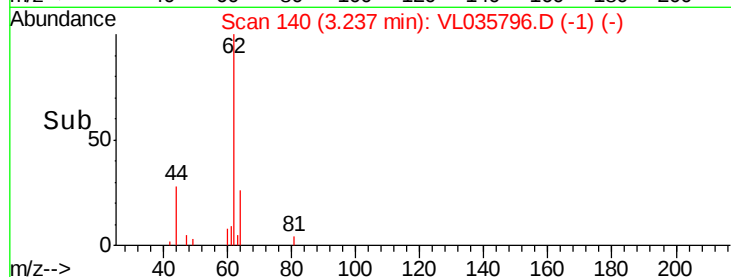
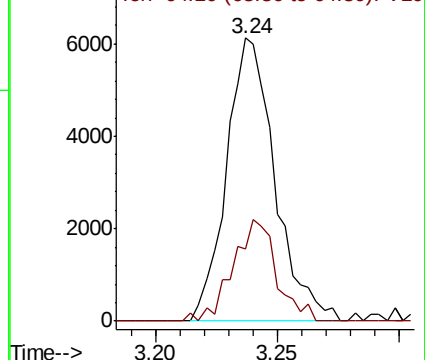
62 100

64 25.6 26.8 40.2#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.059 ppbv

RT: 3.45 min Scan# 207

Delta R.T. -0.02 min

Lab File: VL035796.D

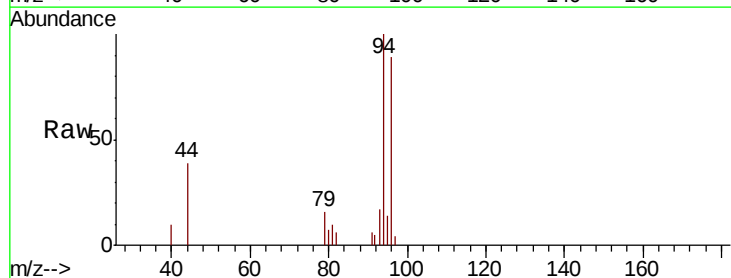
Acq: 19 Oct 2020 16:19

Tgt Ion: 94 Resp: 3667

Ion Ratio Lower Upper

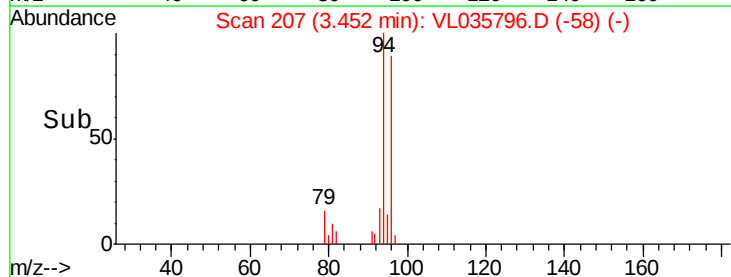
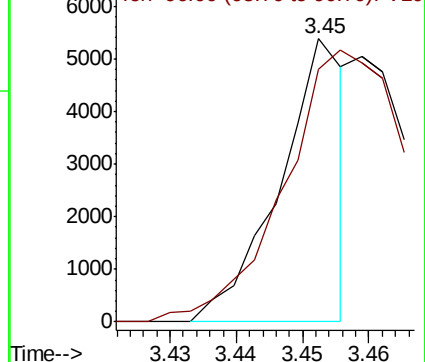
94 100

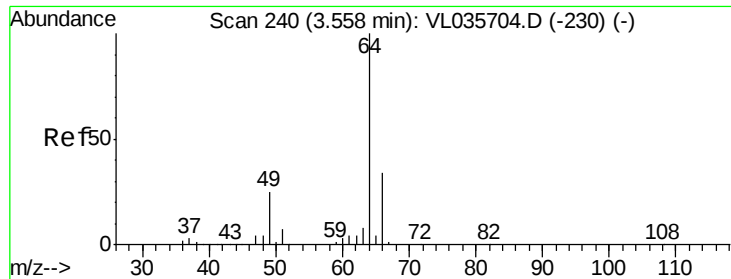
96 85.6 76.3 114.5



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.093 ppbv

RT: 3.54 min Scan# 233

Delta R.T. -0.02 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

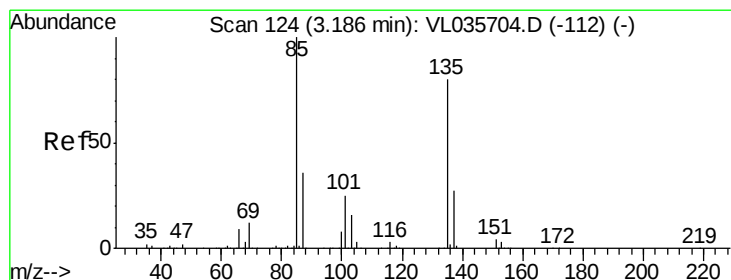
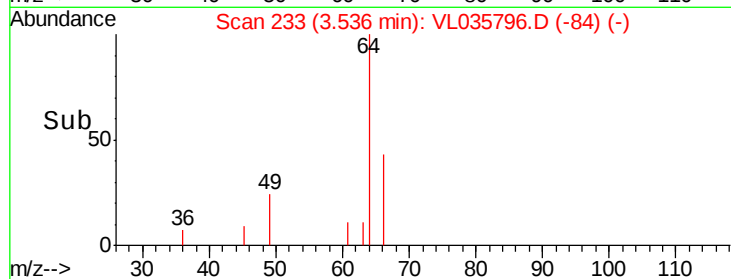
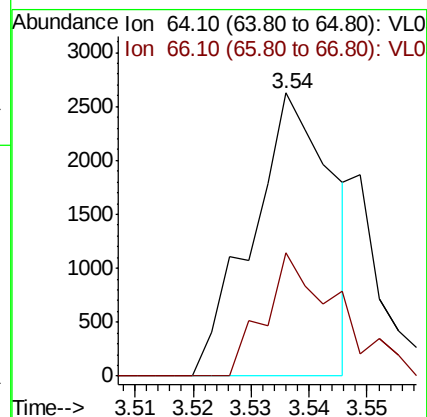
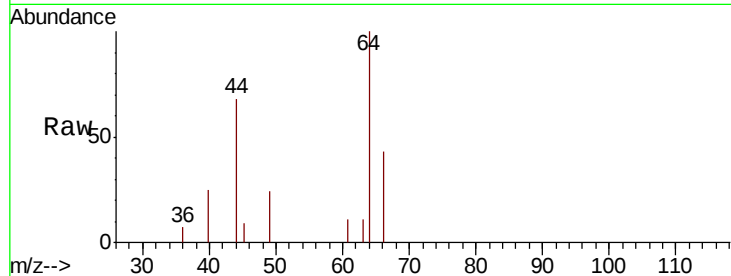
MDL-AIR-01-QT4-2020

Tot Ion: 64 Resp: 2515

Ion Ratio Lower Upper

64 100

66 43.4 26.9 40.3#



#8

Dichlorotetrafluoroethane

Concen: 0.126 ppbv

RT: 3.17 min Scan# 119

Delta R.T. -0.02 min

Lab File: VL035796.D

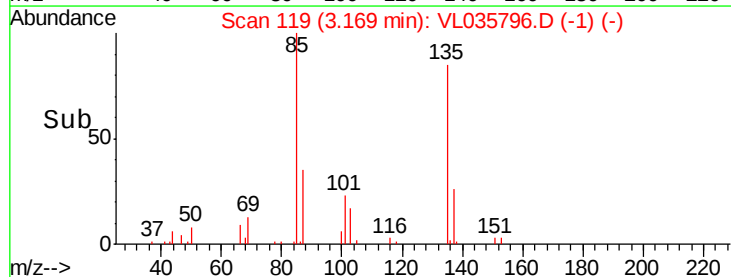
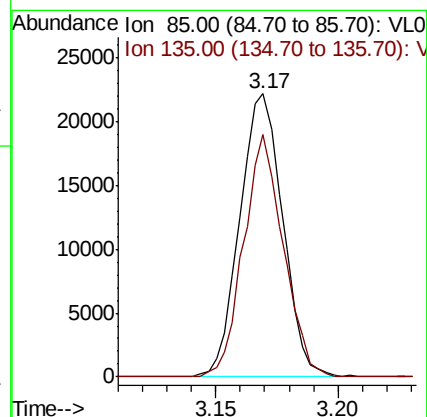
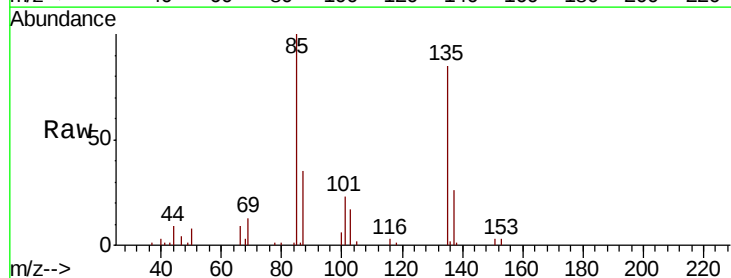
Acq: 19 Oct 2020 16:19

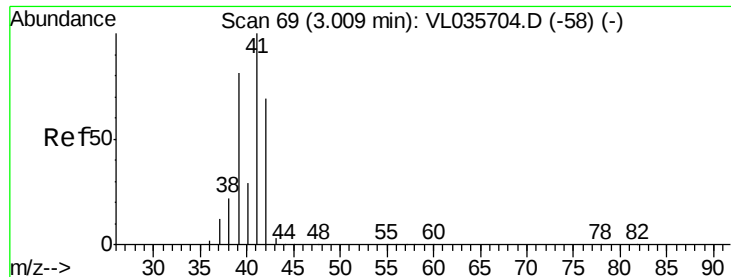
Tgt Ion: 85 Resp: 27057

Ion Ratio Lower Upper

85 100

135 79.0 64.3 96.5





#9

Propene

Concen: 0.160 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.02 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

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ClientSampleId :

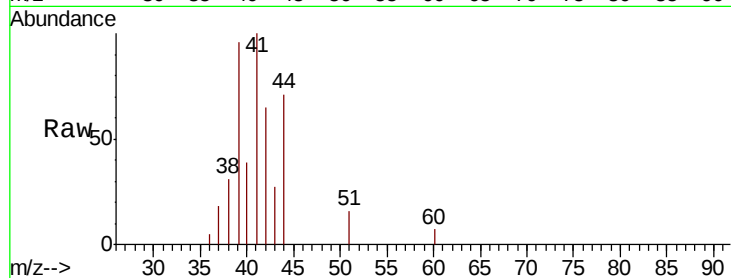
MDL-AIR-01-QT4-2020

Tot Ion: 41 Resp: 6761

Ion Ratio Lower Upper

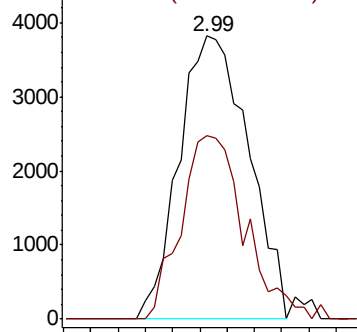
41 100

42 59.8 56.2 84.4

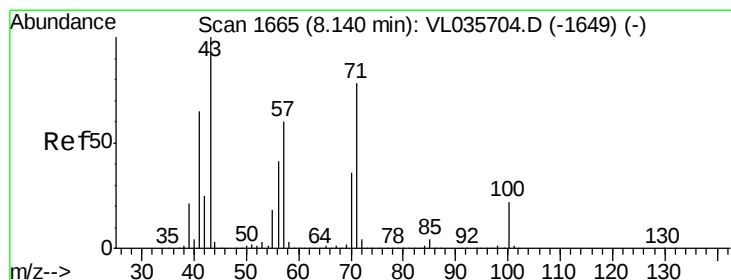
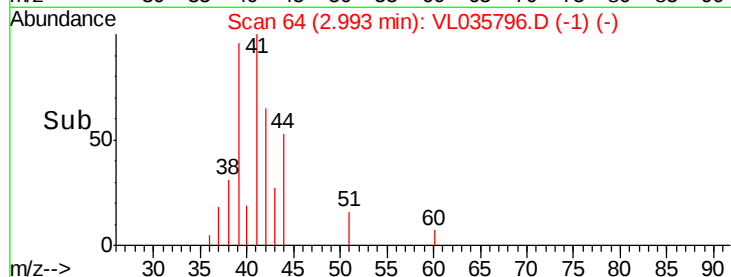


Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



Time-->



#10

Heptane

Concen: 0.054 ppbv

RT: 8.11 min Scan# 1656

Delta R.T. -0.03 min

Lab File: VL035796.D

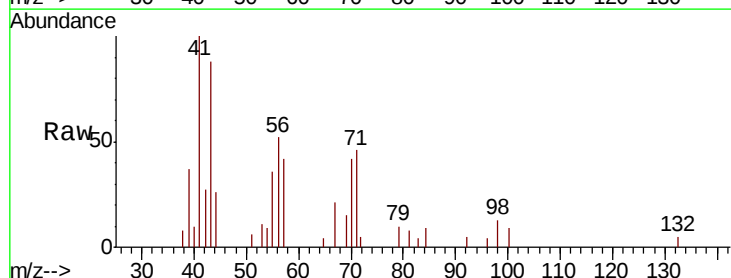
Acq: 19 Oct 2020 16:19

Tgt Ion: 43 Resp: 6315

Ion Ratio Lower Upper

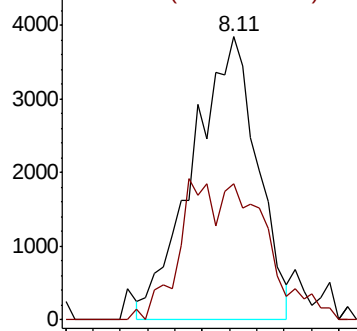
43 100

57 64.0 50.4 75.6

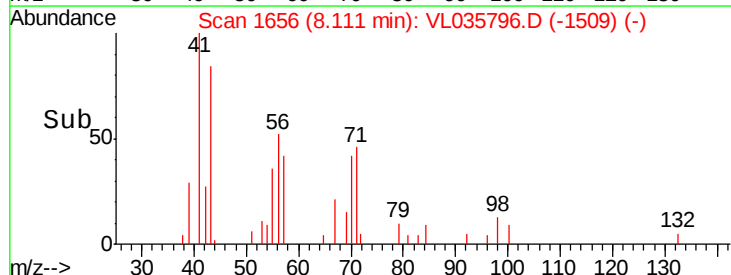


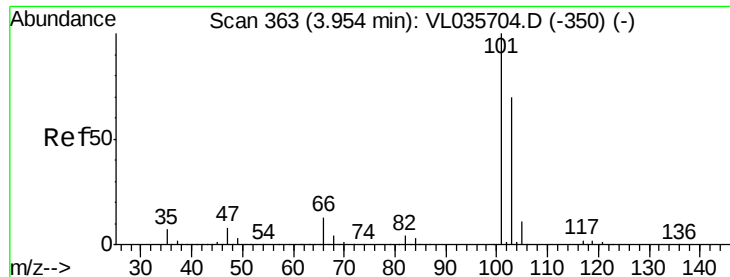
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



Time-->

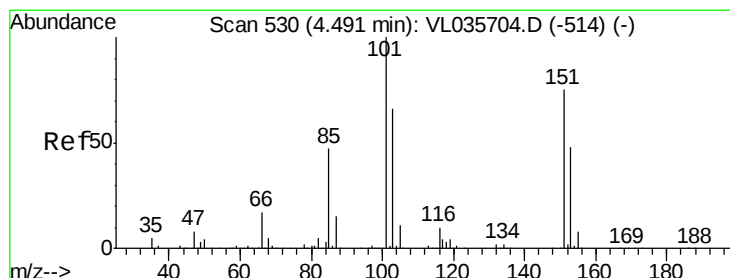
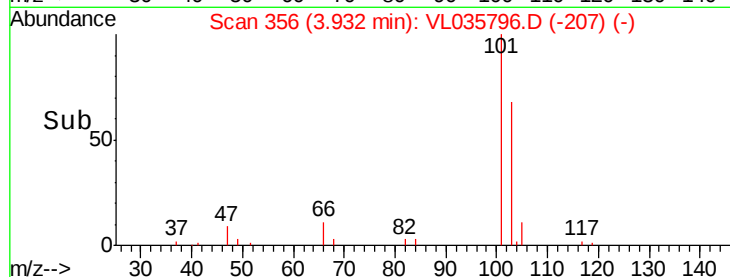
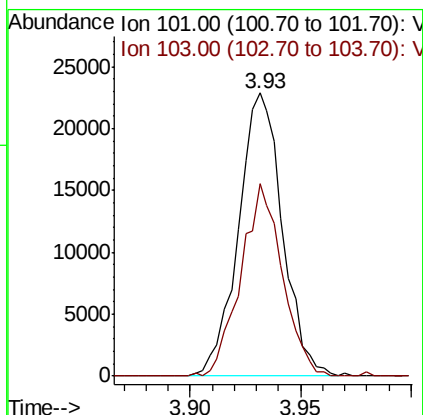
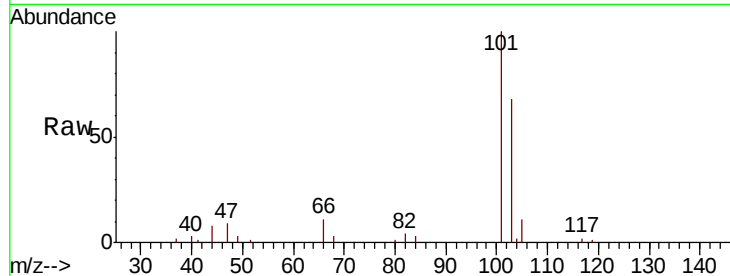




#11
 Trichlorofluoromethane
 Concen: 0.125 ppbv
 RT: 3.93 min Scan# 356
 Delta R.T. -0.02 min
 Lab File: VL035796.D
 Acq: 19 Oct 2020 16:19

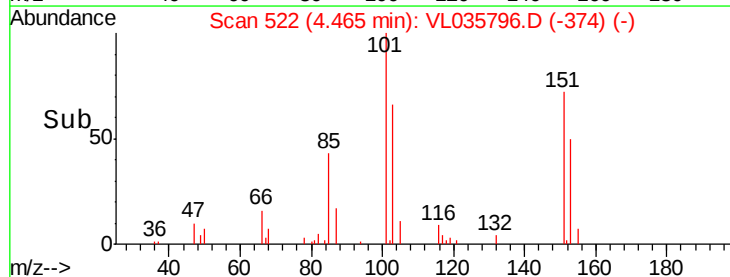
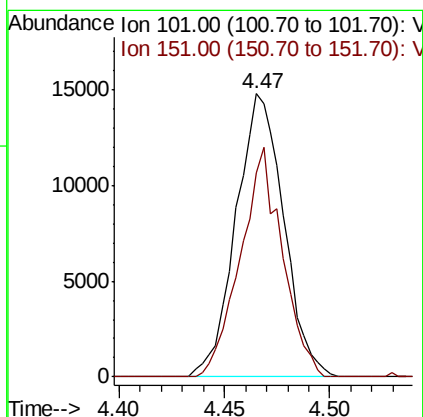
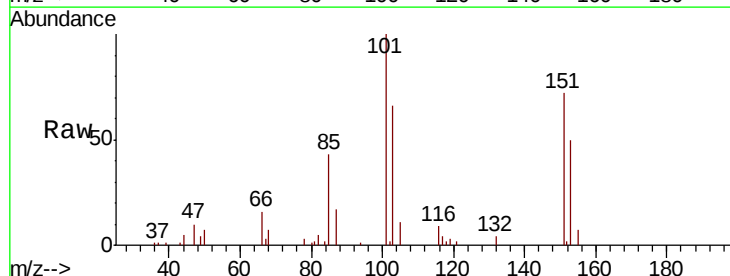
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 ClientSampleId :
 MDL-AIR-01-QT4-2020

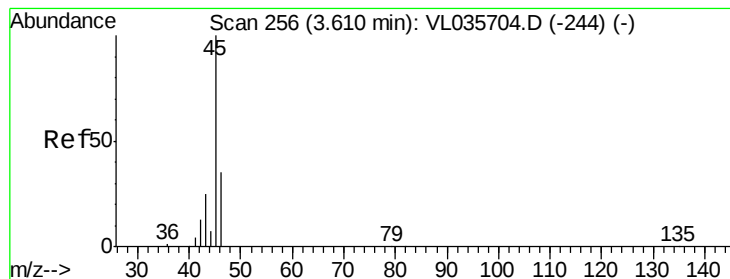
Tot Ion:101 Resp: 31669
 Ion Ratio Lower Upper
 101 100
 103 68.0 55.6 83.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.123 ppbv
 RT: 4.47 min Scan# 522
 Delta R.T. -0.03 min
 Lab File: VL035796.D
 Acq: 19 Oct 2020 16:19

Tgt Ion:101 Resp: 23218
 Ion Ratio Lower Upper
 101 100
 151 71.2 59.1 88.7





#13

Ethanol

Concen: 0.079 ppbv

RT: 3.59 min Scan# 251

Delta R.T. -0.02 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

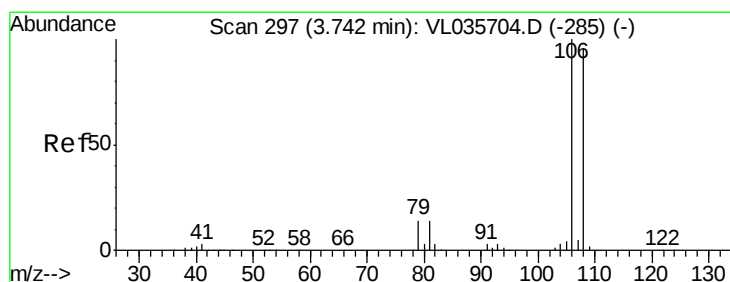
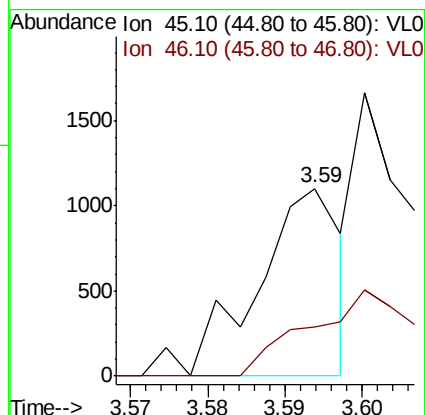
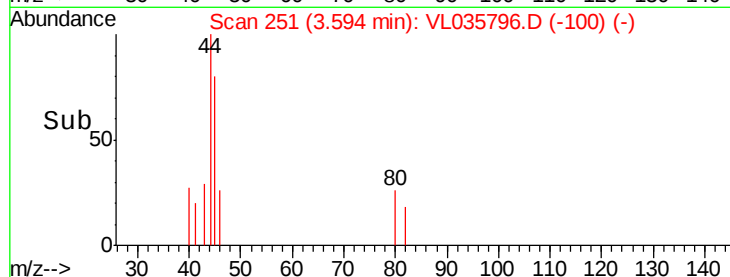
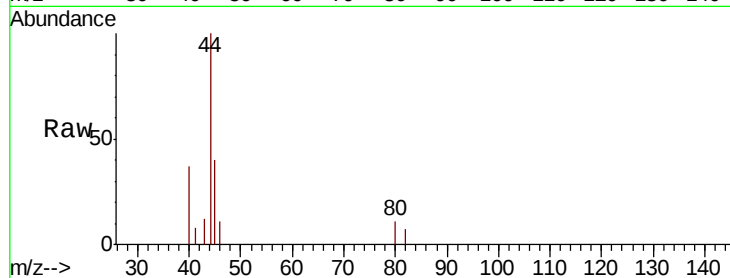
MDL-AIR-01-QT4-2020

Tot Ion: 45 Resp: 819

Ion Ratio Lower Upper

45 100

46 0.0 14.7 58.7#



#14

Bromoethene

Concen: 0.096 ppbv

RT: 3.72 min Scan# 291

Delta R.T. -0.02 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

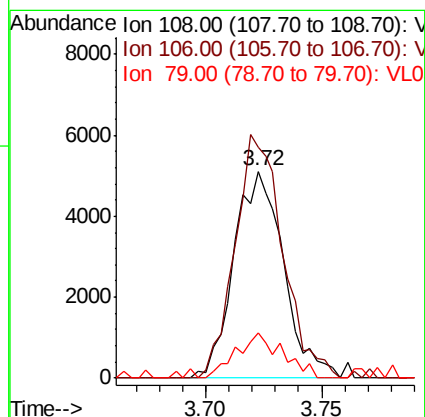
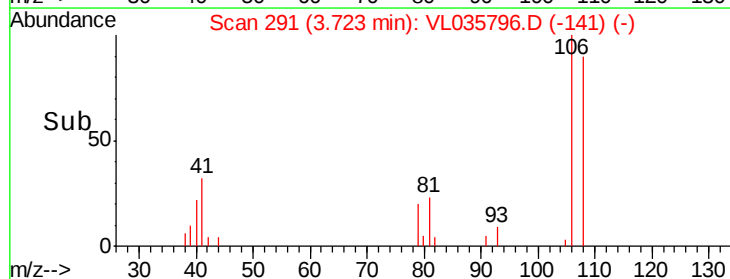
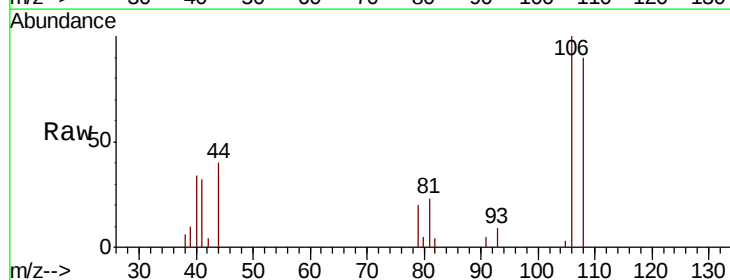
Tgt Ion: 108 Resp: 7612

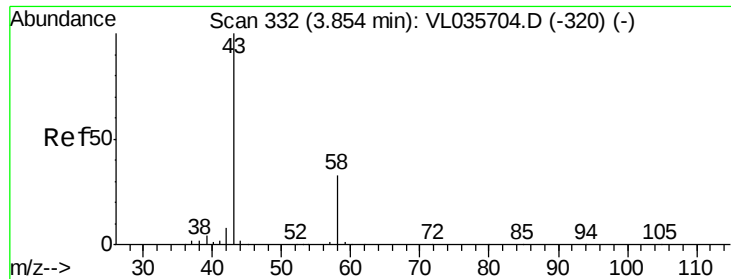
Ion Ratio Lower Upper

108 100

106 114.1 84.6 126.8

79 21.7 11.6 17.4#





#15

Acetone

Concen: 0.254 ppbv

RT: 3.85 min Scan# 330

Delta R.T. -0.01 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

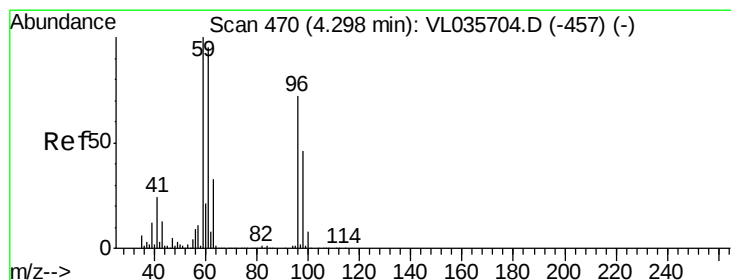
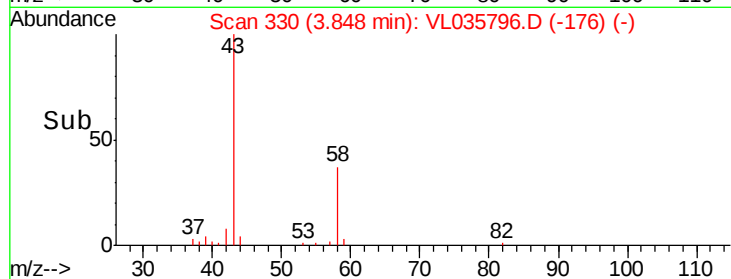
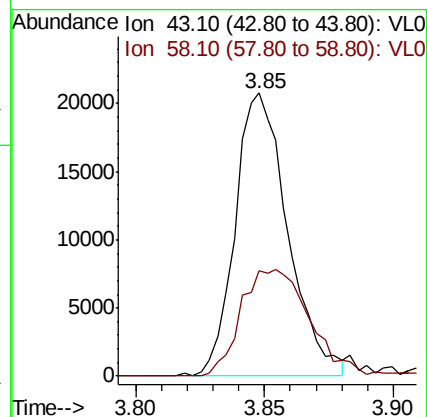
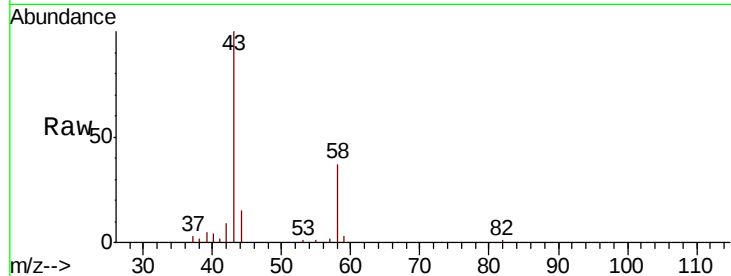
MDL-AIR-01-QT4-2020

Tot Ion: 43 Resp: 29551

Ion Ratio Lower Upper

43 100

58 50.1 27.3 40.9#



#17

tert-Butyl alcohol

Concen: 0.125 ppbv

RT: 4.30 min Scan# 470

Delta R.T. 0.00 min

Lab File: VL035796.D

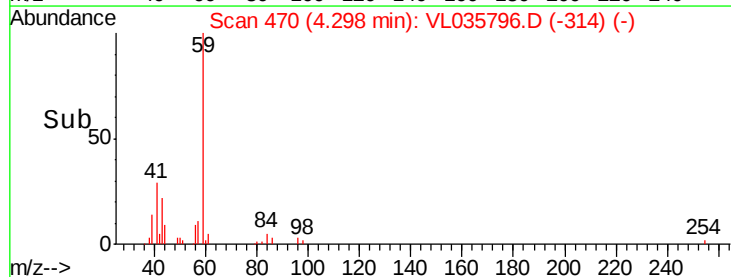
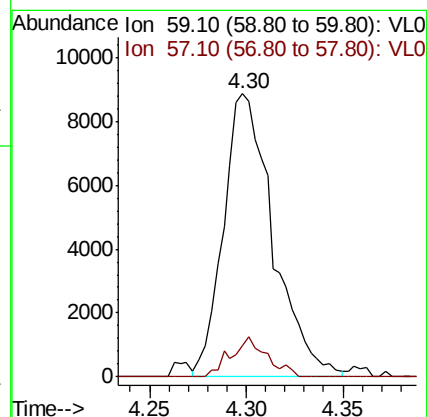
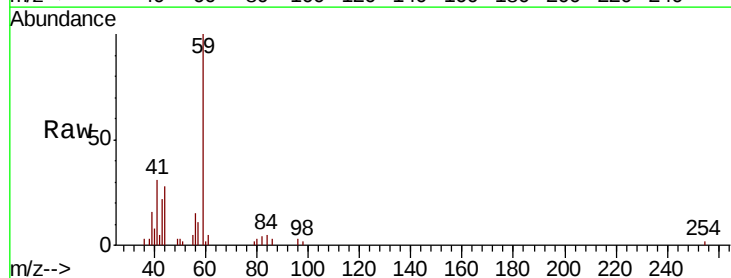
Acq: 19 Oct 2020 16:19

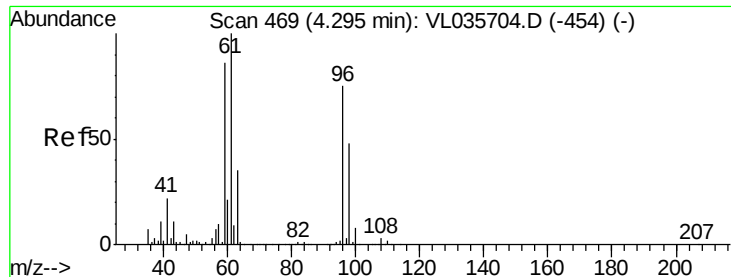
Tgt Ion: 59 Resp: 15797

Ion Ratio Lower Upper

59 100

57 10.3 8.5 12.7





#18

1,1-Dichloroethene

Concen: 0.113 ppbv

RT: 4.27 min Scan# 462

Delta R.T. -0.02 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

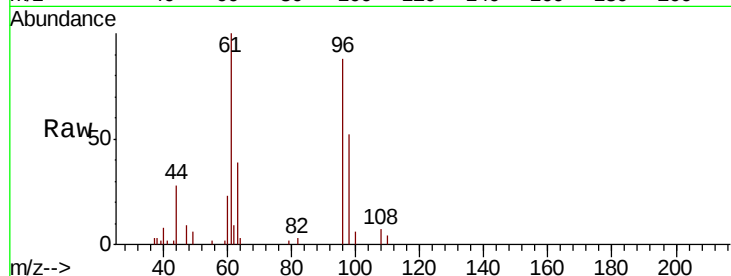
Tot Ion: 96 Resp: 9331

Ion Ratio Lower Upper

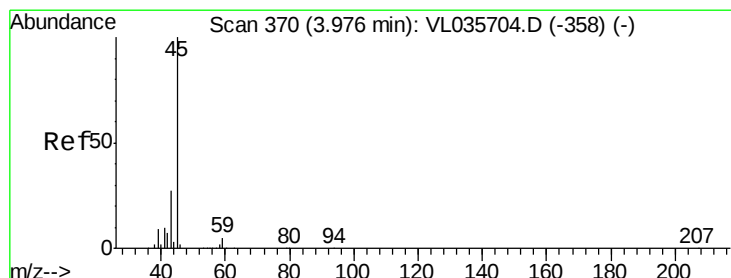
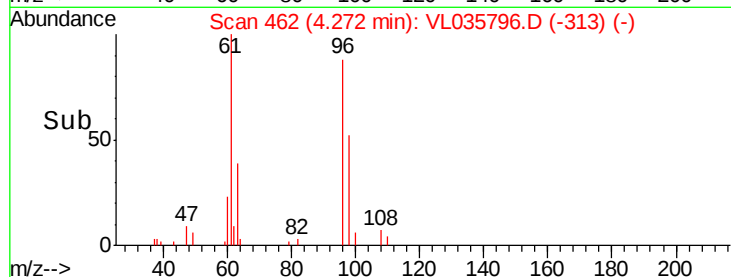
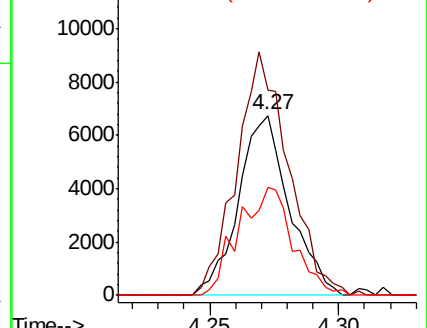
96 100

61 114.2 106.7 160.1

98 59.8 50.8 76.2



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0



#19

Isopropyl Alcohol

Concen: 0.101 ppbv

RT: 3.97 min Scan# 367

Delta R.T. -0.01 min

Lab File: VL035796.D

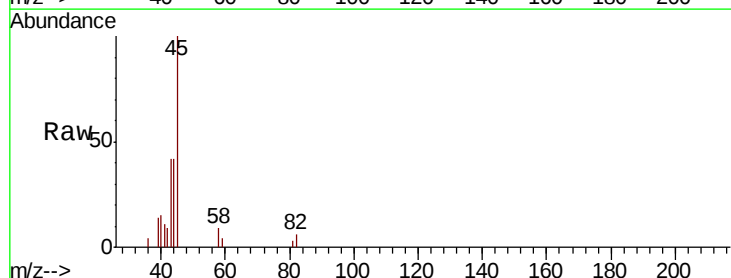
Acq: 19 Oct 2020 16:19

Tgt Ion: 45 Resp: 6406

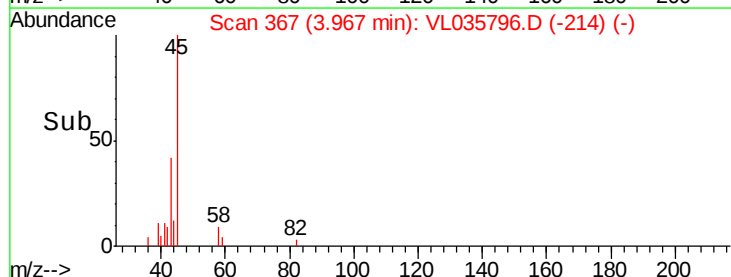
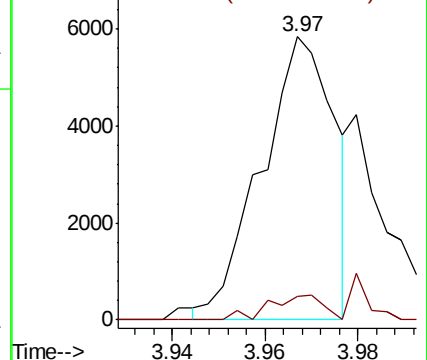
Ion Ratio Lower Upper

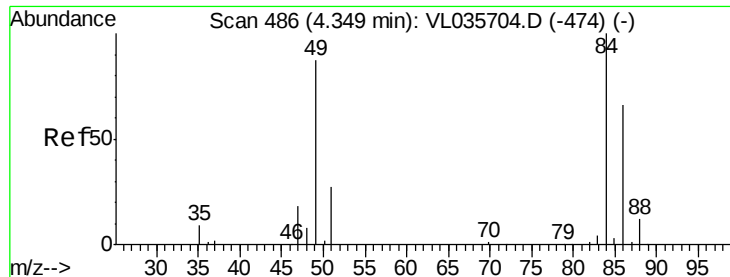
45 100

58 0.0 2.8 4.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0
Ion 58.10 (57.80 to 58.80): VL0

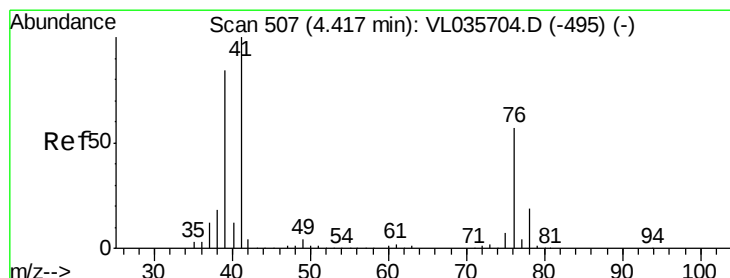
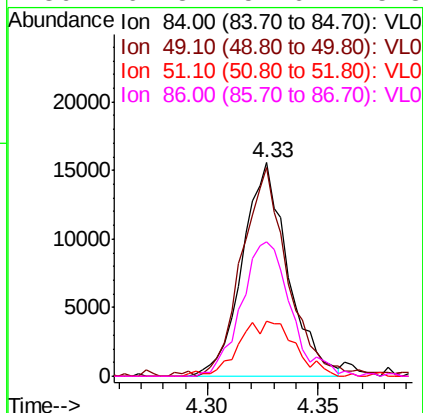
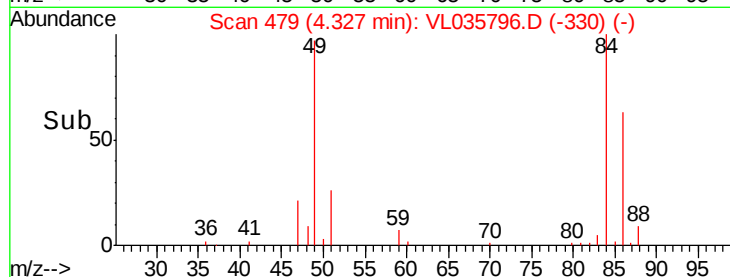
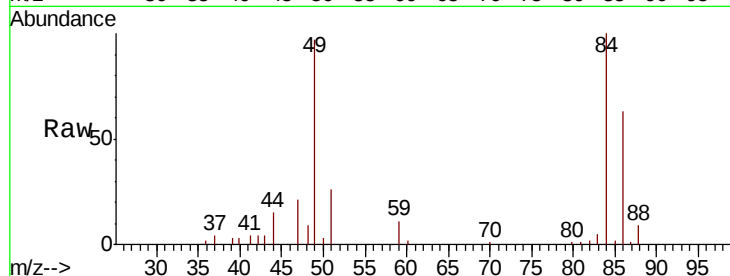




#20
Methvlene Chloride
Concen: 0.261 ppbv
RT: 4.33 min Scan# 479
Delta R.T. -0.02 min
Lab File: VL035796.D
Acq: 19 Oct 2020 16:19

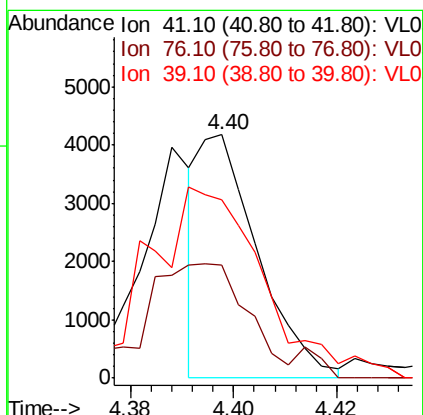
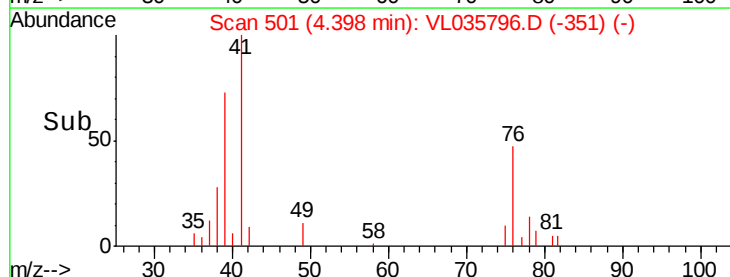
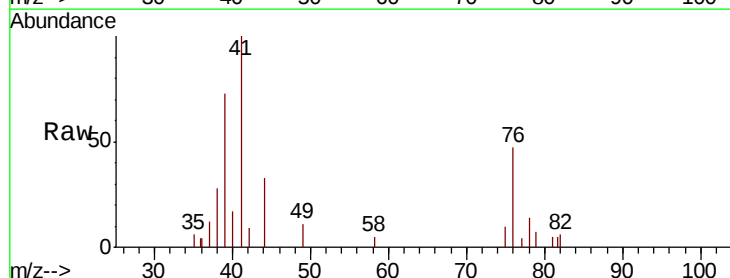
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT4-2020

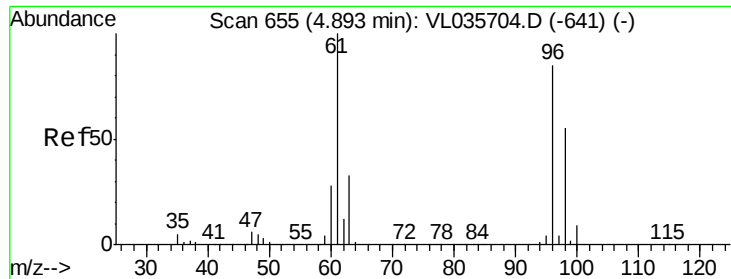
Tot Ion:	84	Resp:	22323
Ion	Ratio	Lower	Upper
84	100		
49	95.2	69.8	104.6
51	25.6	21.8	32.8
86	62.8	52.6	78.8



#21
Allyl Chloride
Concen: 0.058 ppbv
RT: 4.40 min Scan# 501
Delta R.T. -0.02 min
Lab File: VL035796.D
Acq: 19 Oct 2020 16:19

Tgt Ion:	41	Resp:	3282
Ion	Ratio	Lower	Upper
41	100		
76	88.8	44.8	67.2#
39	159.9	68.4	102.6#





#22

trans-1,2-Dichloroethene

Concen: 0.128 ppbv

RT: 4.86 min Scan# 646

Delta R.T. -0.03 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

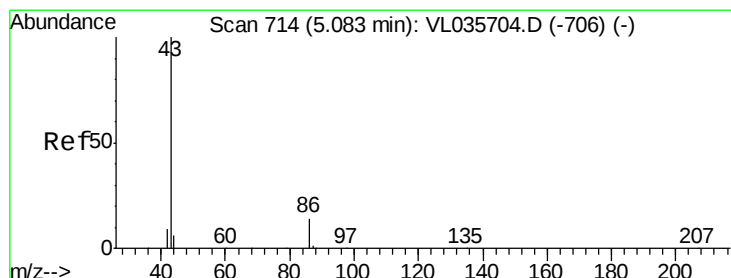
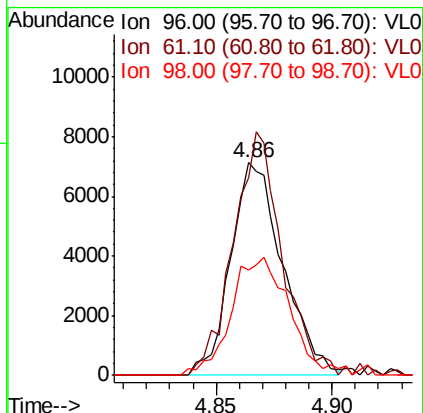
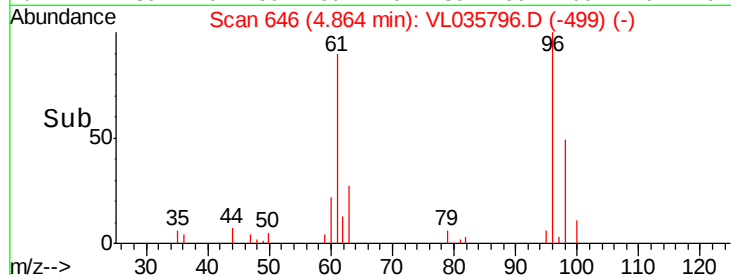
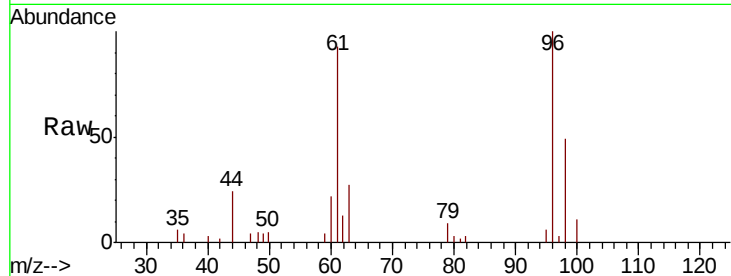
Tot Ion: 96 Resp: 11167

Ion Ratio Lower Upper

96 100

61 92.8 93.7 140.5#

98 46.4 51.2 76.8#



#23

Vinyl Acetate

Concen: 0.100 ppbv

RT: 5.06 min Scan# 707

Delta R.T. -0.02 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Tgt Ion: 43 Resp: 14250

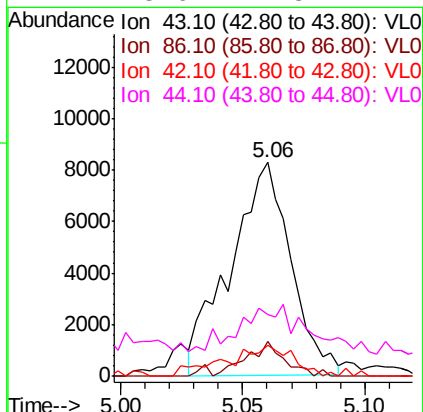
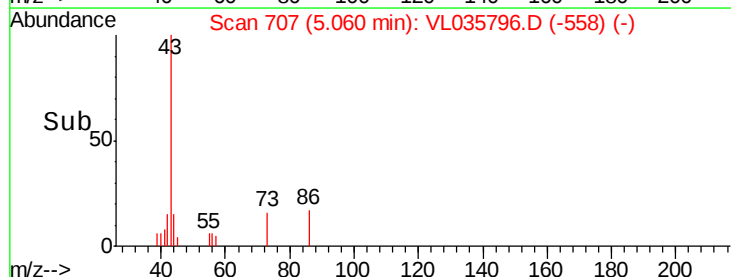
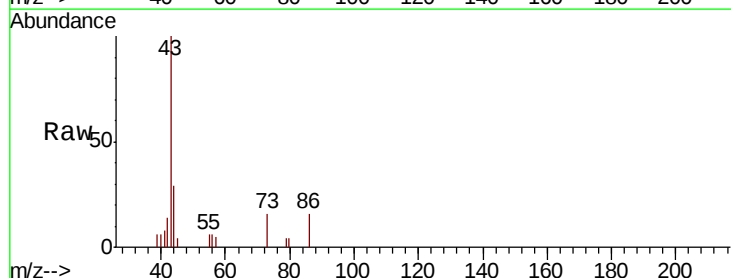
Ion Ratio Lower Upper

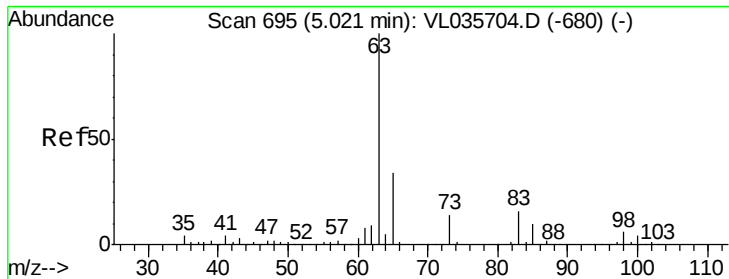
43 100

86 17.1 9.7 14.5#

42 15.0 7.9 11.9#

44 18.6 4.8 7.2#





#24

1,1-Dichloroethane

Concen: 0.121 ppbv

RT: 4.99 min Scan# 686

Delta R.T. -0.03 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

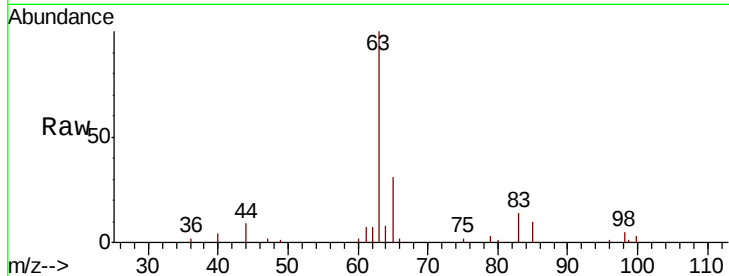
Tot Ion: 63 Resp: 18787

Ion Ratio Lower Upper

63 100

98 5.2 3.3 9.8

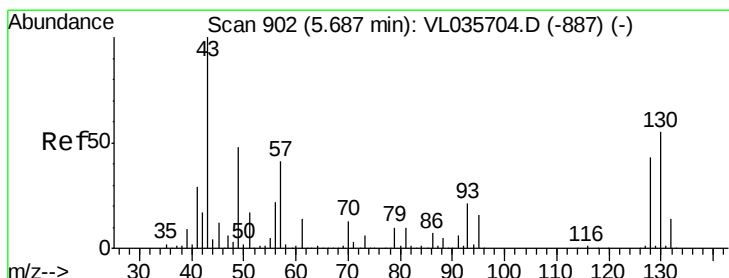
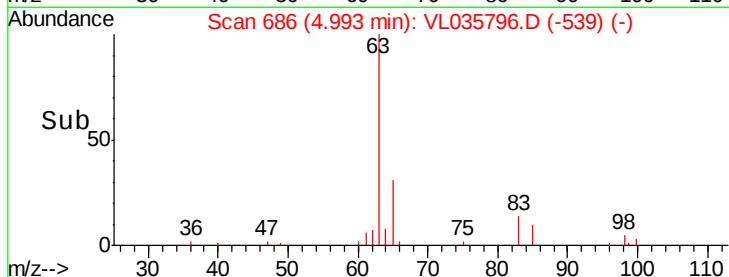
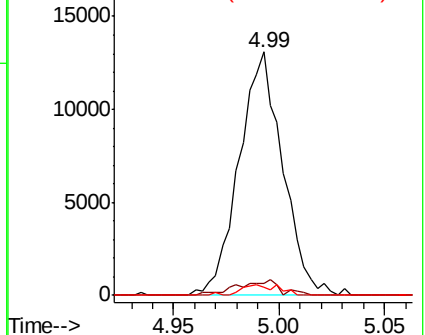
100 3.2 2.0 5.8



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



#25

Ethyl Acetate

Concen: 0.109 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.02 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Tgt Ion: 43 Resp: 22831

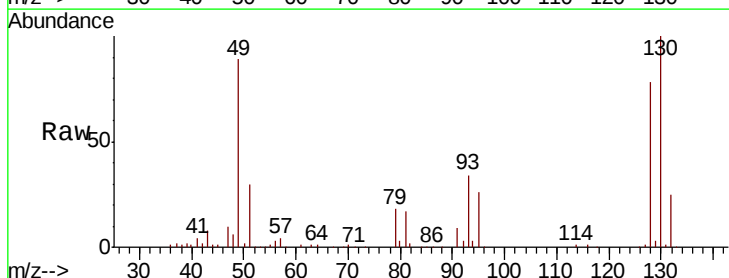
Ion Ratio Lower Upper

43 100

45 11.4 8.6 12.8

61 11.2 10.4 15.6

70 8.8 8.9 13.3#

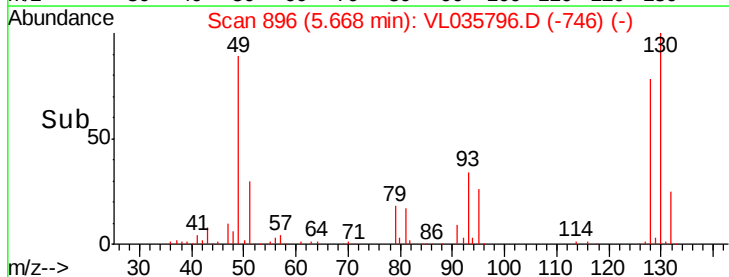
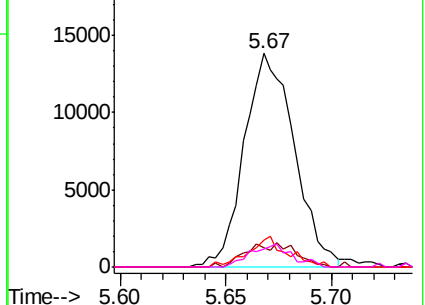


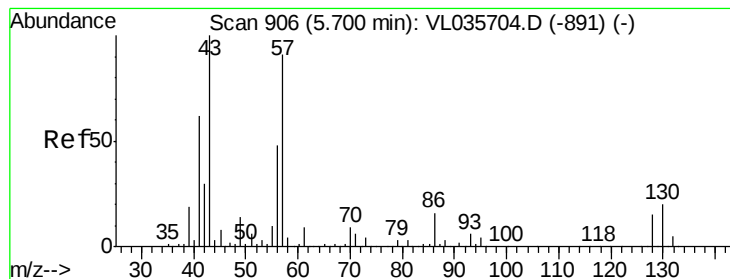
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0





#26

Hexane

Concen: 0.101 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.03 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

Tot Ion: 57 Resp: 11548

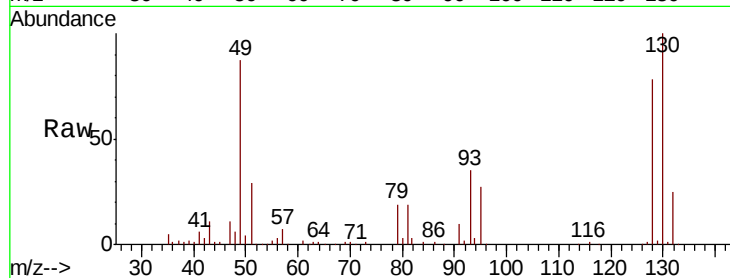
Ion Ratio Lower Upper

57 100

41 98.8 57.9 86.9#

43 202.1 143.8 215.6

56 62.1 43.0 64.6

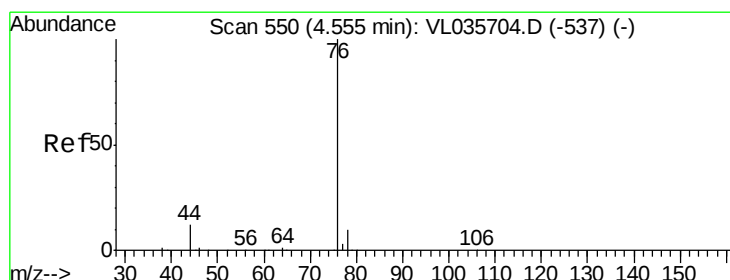
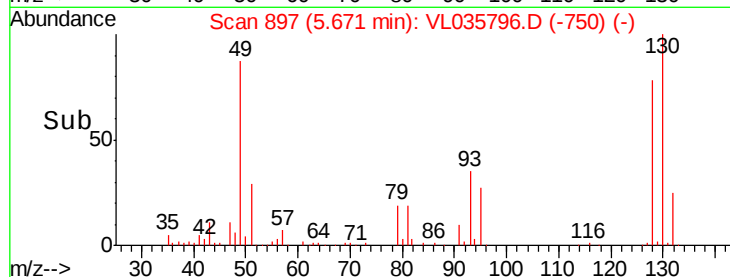
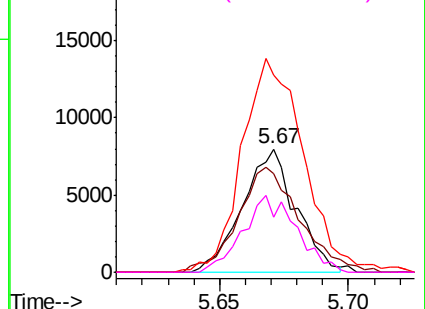


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#27

Carbon Disulfide

Concen: 0.106 ppbv

RT: 4.53 min Scan# 542

Delta R.T. -0.03 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

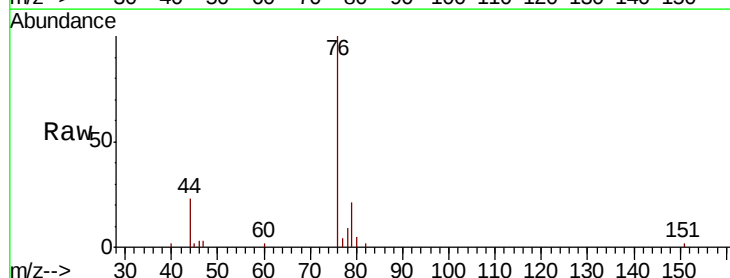
Tgt Ion: 76 Resp: 18195

Ion Ratio Lower Upper

76 100

44 24.4 9.7 14.5#

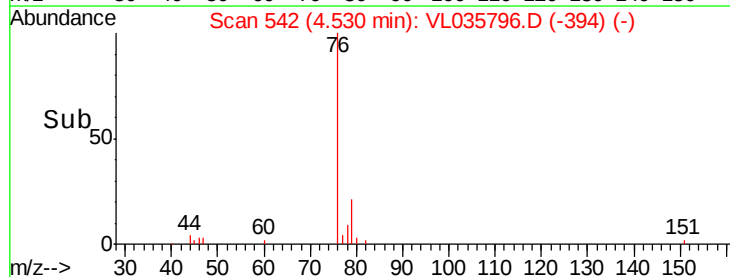
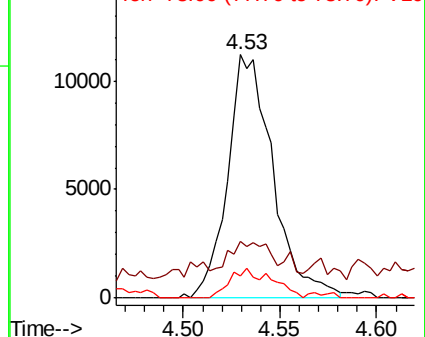
78 12.4 7.8 11.8#

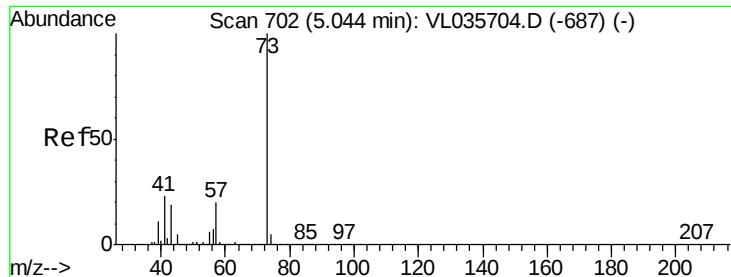


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0

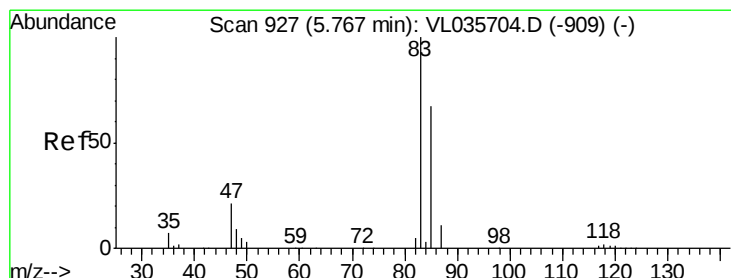
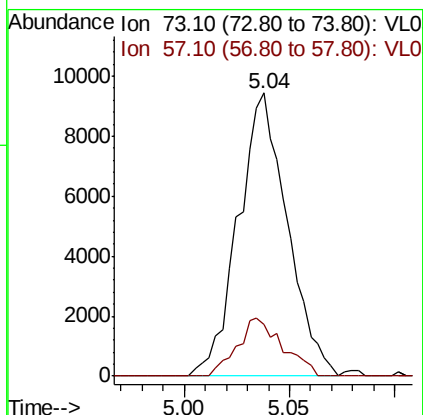
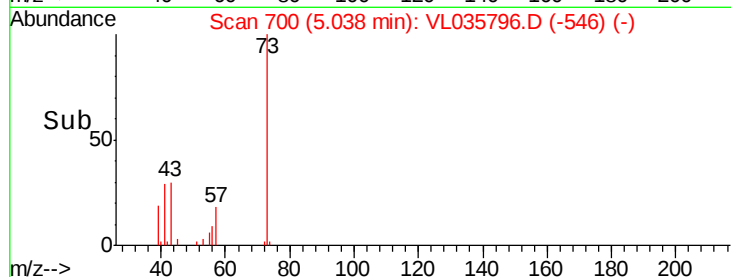
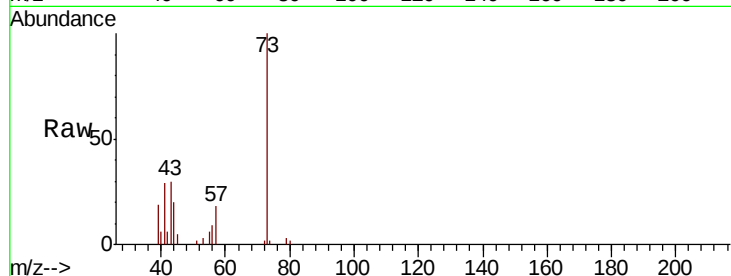




#28
Methvl tert-Butvl Ether
Concen: 0.084 ppbv
RT: 5.04 min Scan# 700
Delta R.T. -0.01 min
Lab File: VL035796.D
Acq: 19 Oct 2020 16:19

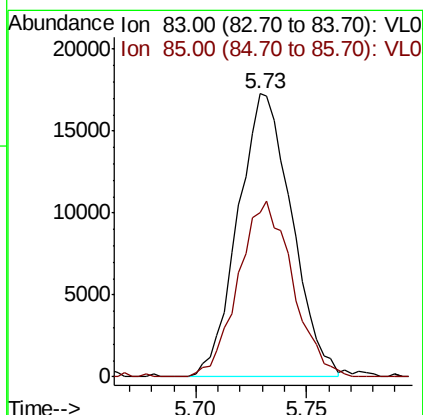
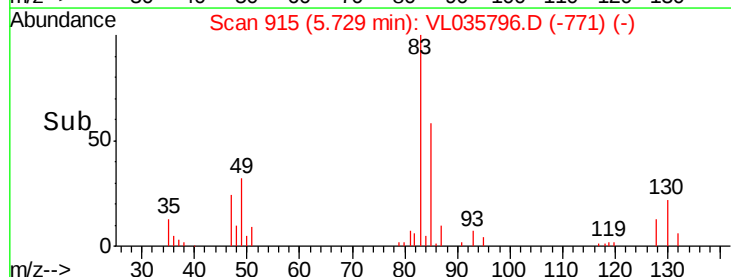
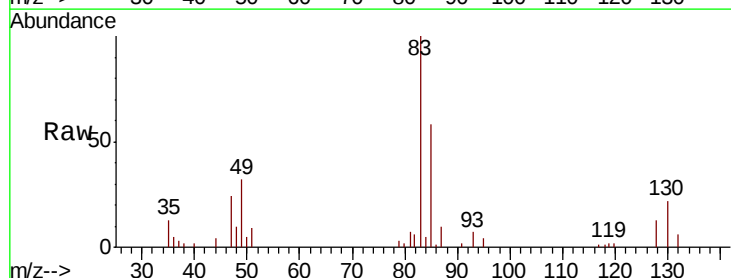
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT4-2020

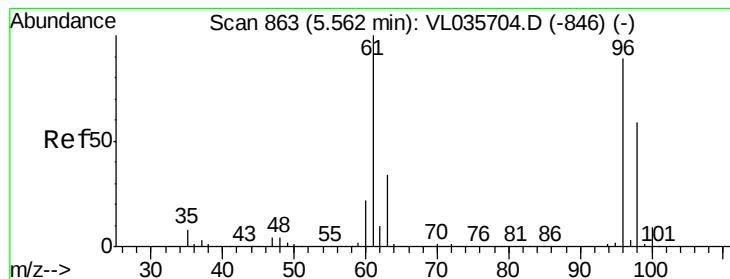
Tot Ion: 73 Resp: 15262
Ion Ratio Lower Upper
73 100
57 18.9 15.6 23.4



#29
Chloroform
Concen: 0.125 ppbv
RT: 5.73 min Scan# 915
Delta R.T. -0.04 min
Lab File: VL035796.D
Acq: 19 Oct 2020 16:19

Tgt Ion: 83 Resp: 29182
Ion Ratio Lower Upper
83 100
85 58.2 54.0 81.0





#31

cis-1,2-Dichloroethene

Concen: 0.076 ppbv

RT: 5.53 min Scan# 852

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

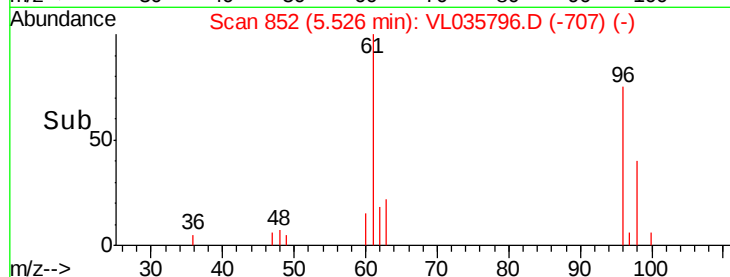
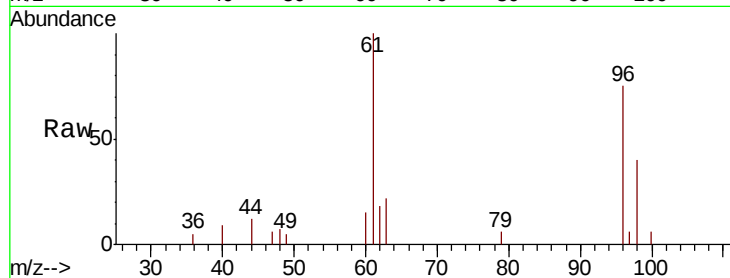
Tot Ion: 61 Resp: 8447

Ion Ratio Lower Upper

61 100

96 74.7 71.4 107.2

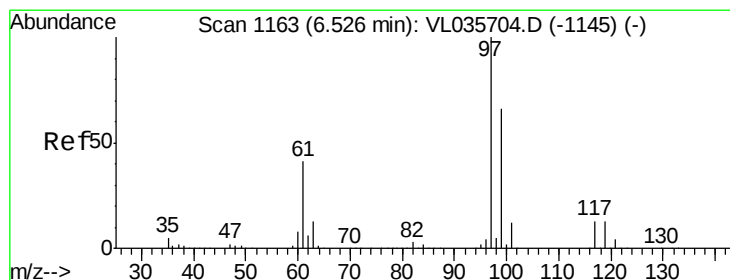
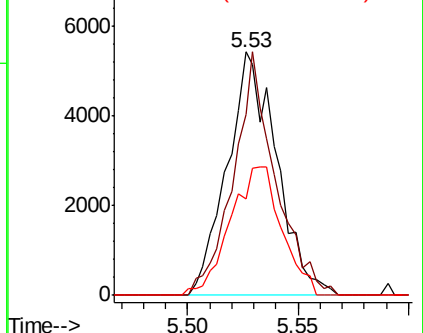
98 39.6 47.4 71.2#



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 0.101 ppbv

RT: 6.49 min Scan# 1152

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

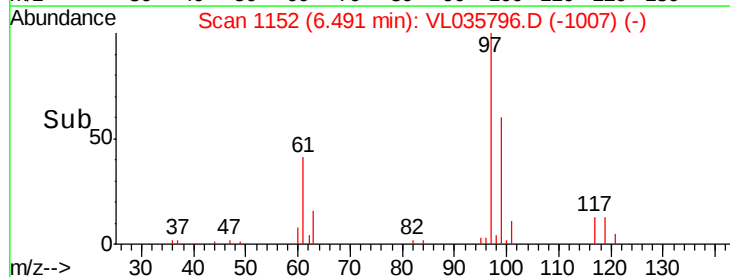
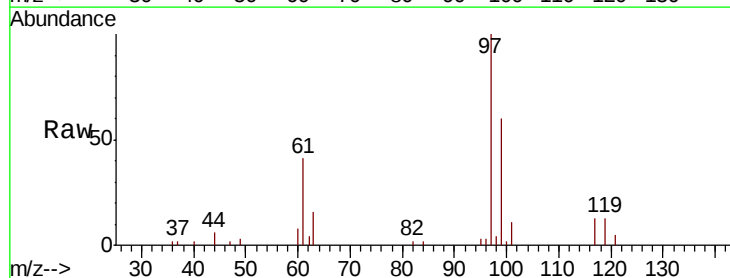
Tgt Ion: 97 Resp: 20805

Ion Ratio Lower Upper

97 100

99 65.0 52.7 79.1

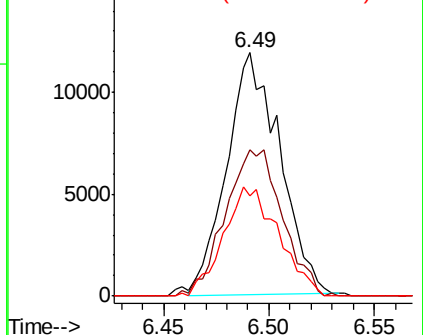
61 46.7 32.7 49.1

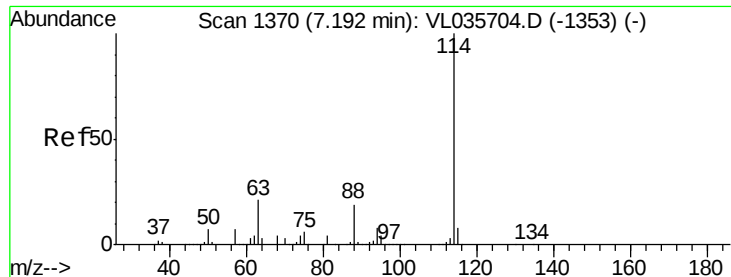


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

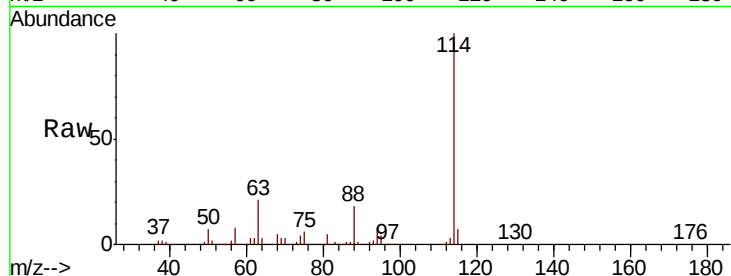




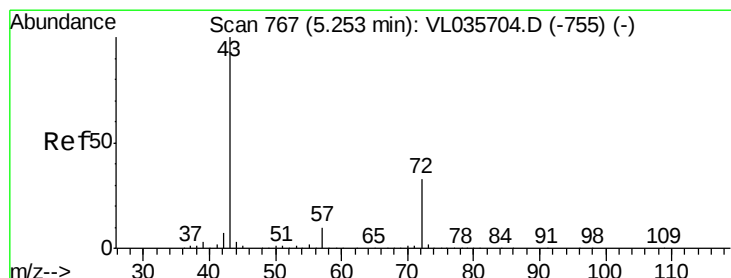
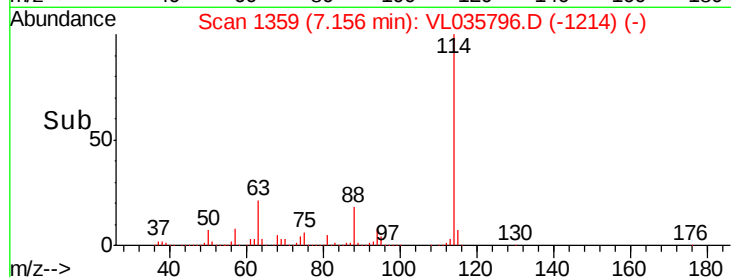
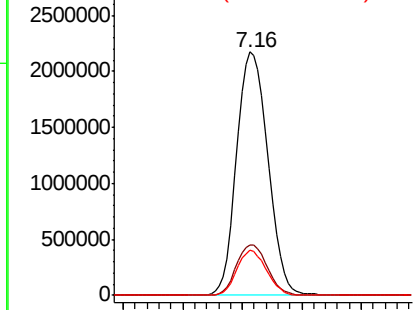
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.04 min
 Lab File: VL035796.D
 Acq: 19 Oct 2020 16:19

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT4-2020

Tot Ion:114 Resp: 3979515
 Ion Ratio Lower Upper
 114 100
 63 20.4 16.1 24.1
 88 17.6 14.1 21.1

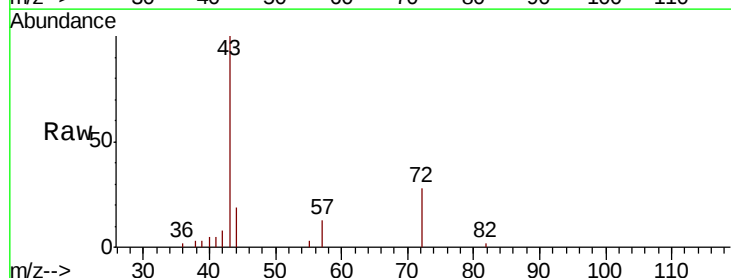


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

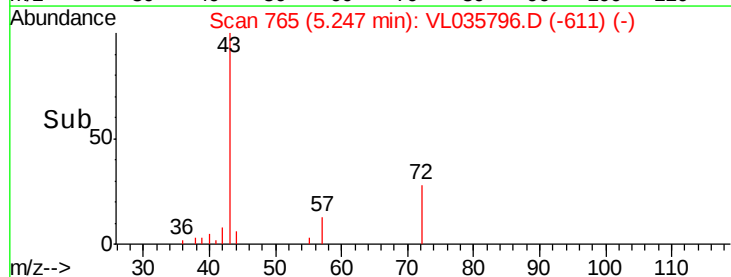
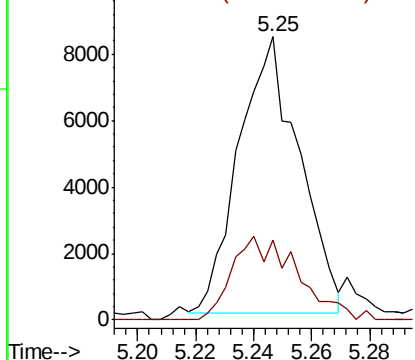


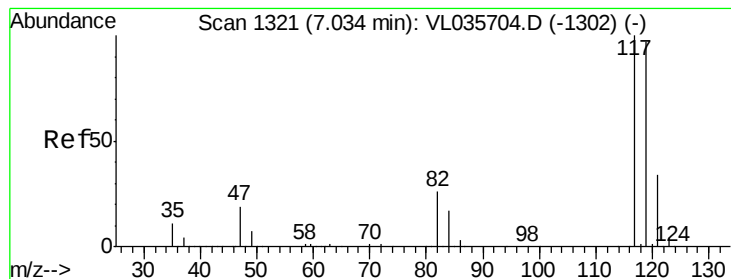
#34
 2-Butanone
 Concen: 0.092 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. -0.01 min
 Lab File: VL035796.D
 Acq: 19 Oct 2020 16:19

Tgt Ion: 43 Resp: 12056
 Ion Ratio Lower Upper
 43 100
 72 32.7 26.1 39.1



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.106 ppbv

RT: 7.00 min Scan# 1310

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

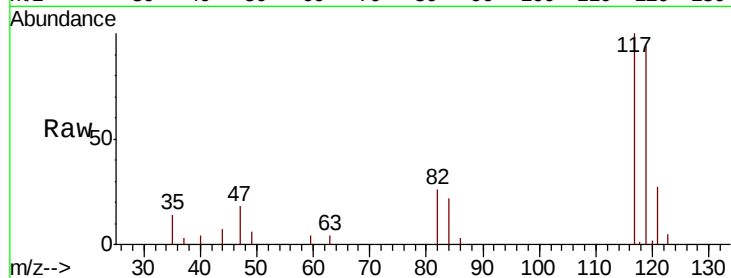
Tot Ion:117 Resp: 22064

Ion Ratio Lower Upper

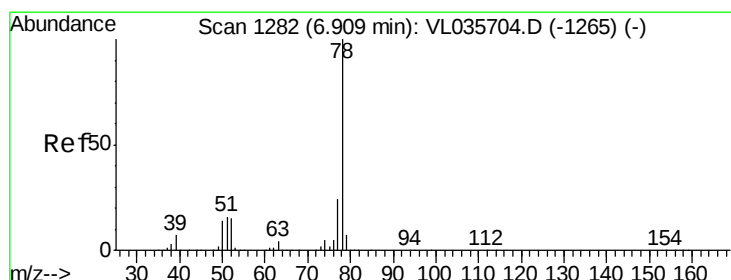
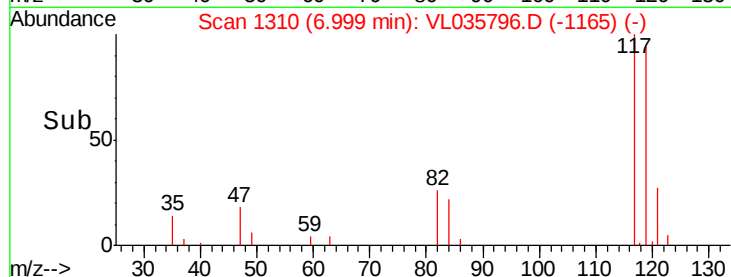
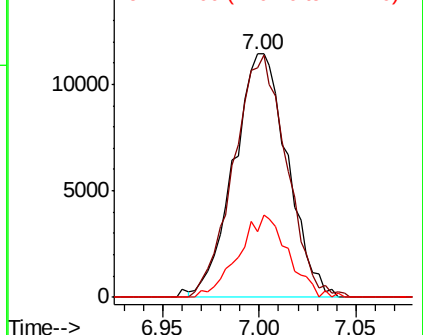
117 100

119 94.1 77.7 116.5

121 26.8 26.9 40.3#



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.074 ppbv

RT: 6.87 min Scan# 1270

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

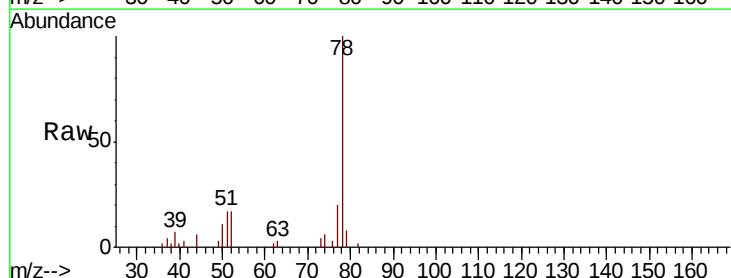
Tgt Ion: 78 Resp: 19108

Ion Ratio Lower Upper

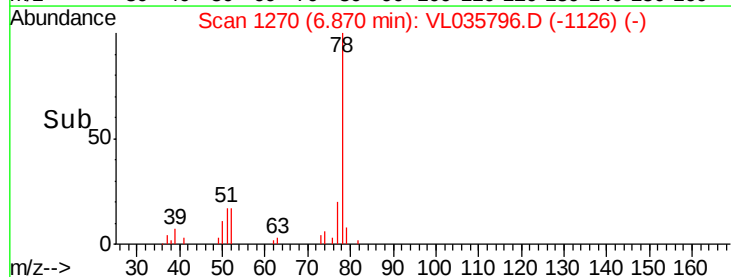
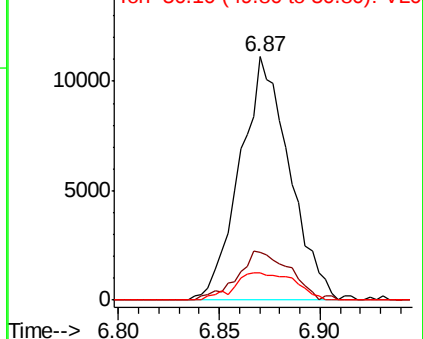
78 100

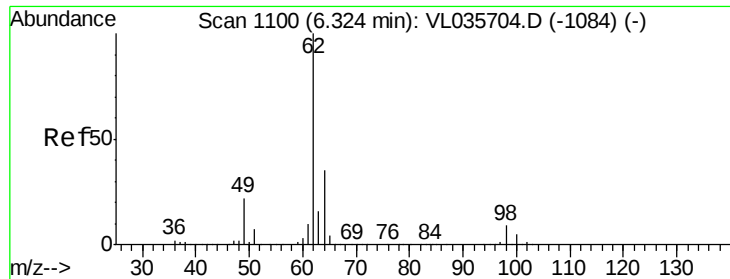
77 19.7 19.3 28.9

50 11.2 11.6 17.4#



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0

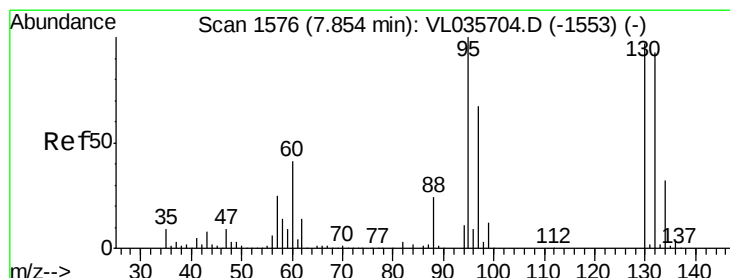
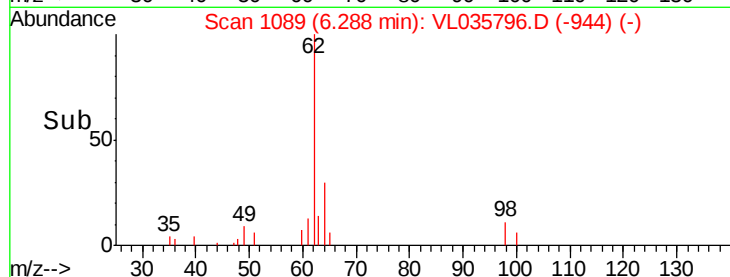
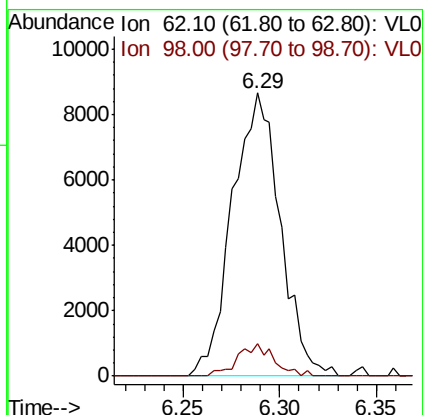
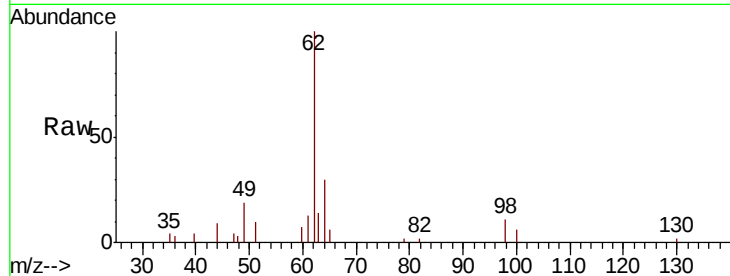




#37
 1,2-Dichloroethane
 Concen: 0.110 ppbv
 RT: 6.29 min Scan# 1089
 Delta R.T. -0.04 min
 Lab File: VL035796.D
 Acq: 19 Oct 2020 16:19

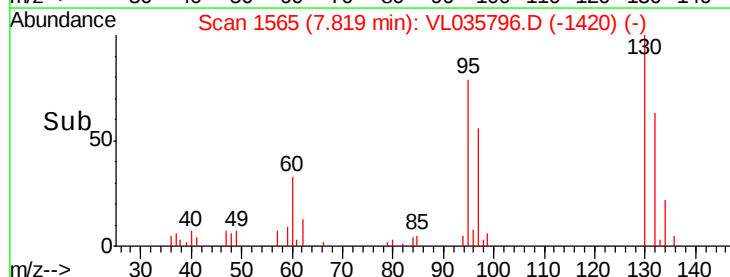
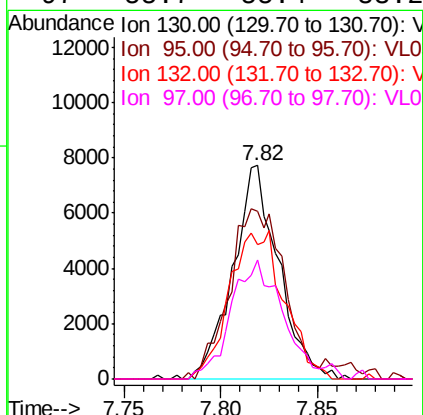
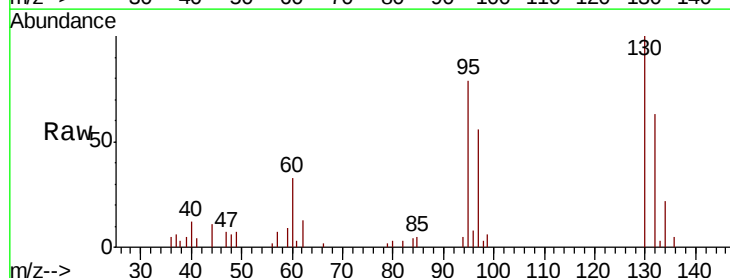
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT4-2020

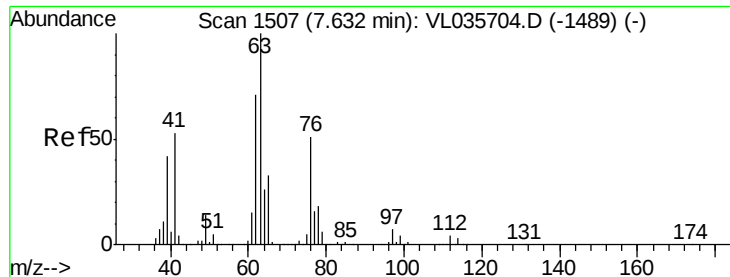
Tot Ion: 62 Resp: 14923
 Ion Ratio Lower Upper
 62 100
 98 8.7 6.9 10.3



#38
 Trichloroethene
 Concen: 0.097 ppbv
 RT: 7.82 min Scan# 1565
 Delta R.T. -0.04 min
 Lab File: VL035796.D
 Acq: 19 Oct 2020 16:19

Tgt Ion: 130 Resp: 12591
 Ion Ratio Lower Upper
 130 100
 95 75.4 82.4 123.6#
 132 63.1 76.8 115.2#
 97 55.7 55.4 83.2





#39

1,2-Dichloropropane

Concen: 0.113 ppbv

RT: 7.59 min Scan# 1495

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

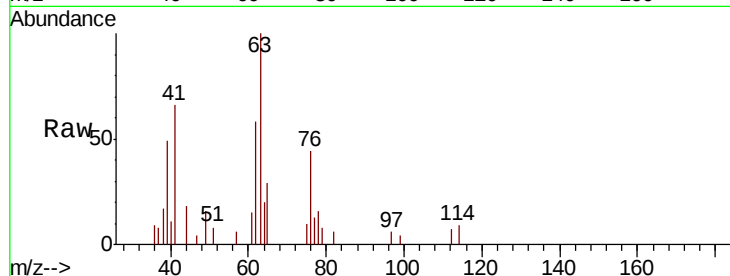
Instrument :

MSVOA_L

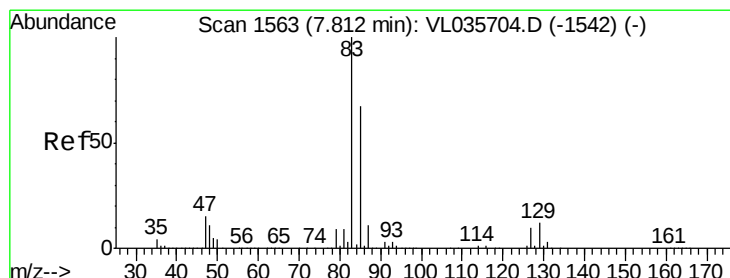
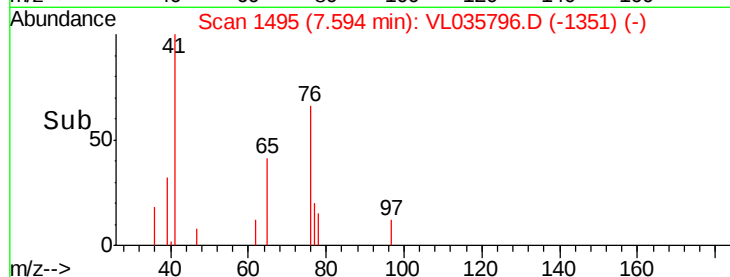
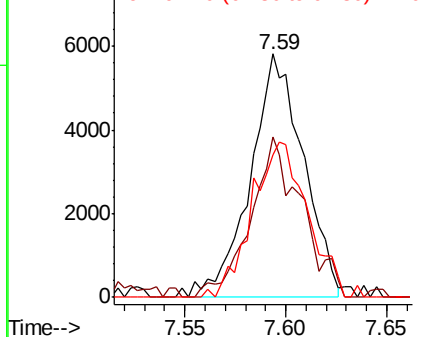
ClientSampleId :

MDL-AIR-01-QT4-2020

Tot Ion:	63	Resp:	10617
Ion	Ratio	Lower	Upper
63	100		
41	68.7	42.6	63.8#
62	60.8	56.5	84.7



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#42

Bromodichloromethane

Concen: 0.104 ppbv

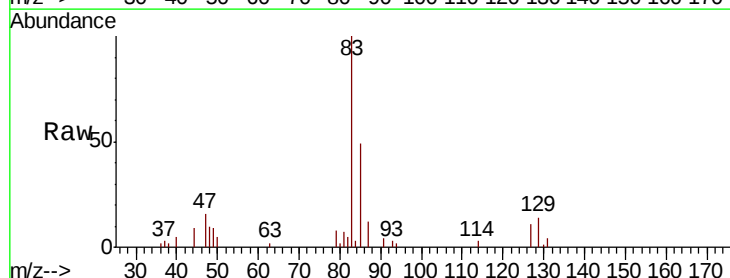
RT: 7.78 min Scan# 1552

Delta R.T. -0.04 min

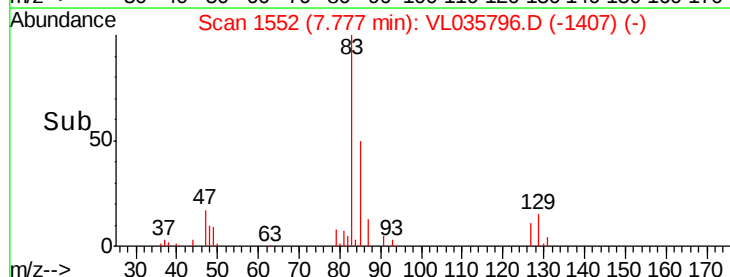
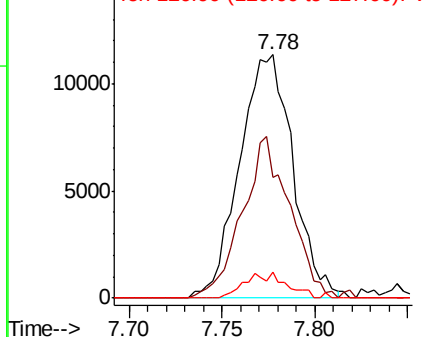
Lab File: VL035796.D

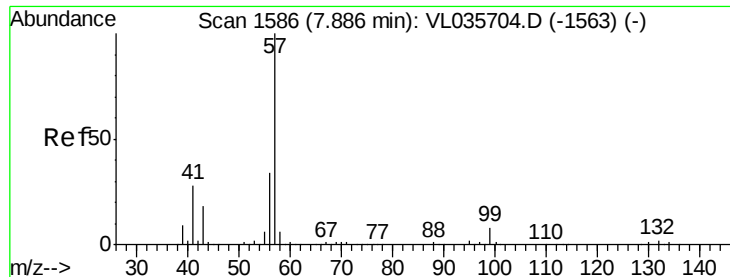
Acq: 19 Oct 2020 16:19

Tgt Ion:	83	Resp:	22597
Ion	Ratio	Lower	Upper
83	100		
85	49.4	53.4	80.0#
127	10.7	7.8	11.6



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V





#44

2,2,4-Trimethylpentane

Concen: 0.063 ppbv

RT: 7.85 min Scan# 1576

Delta R.T. -0.03 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

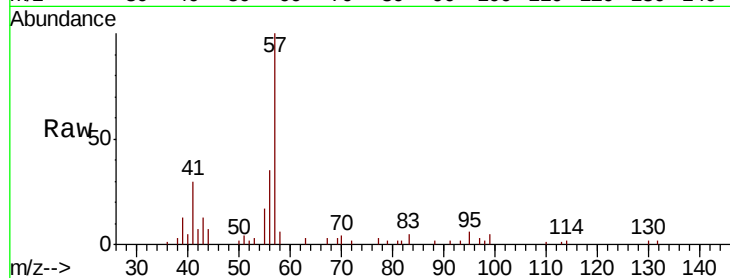
Tot Ion: 57 Resp: 23336

Ion Ratio Lower Upper

57 100

41 43.3 21.2 31.8#

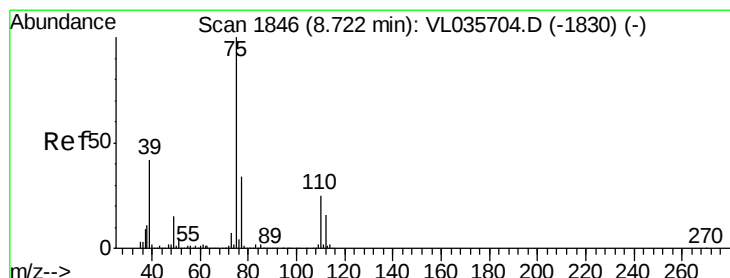
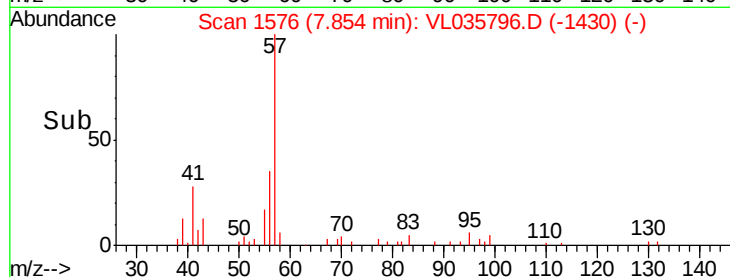
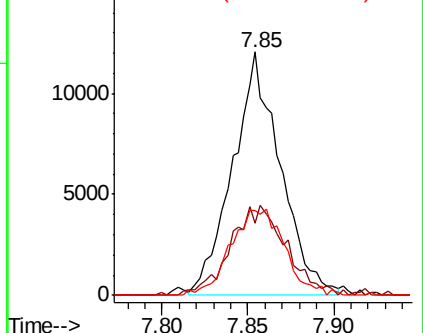
56 40.1 25.8 38.8#



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 0.062 ppbv

RT: 8.69 min Scan# 1836

Delta R.T. -0.03 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

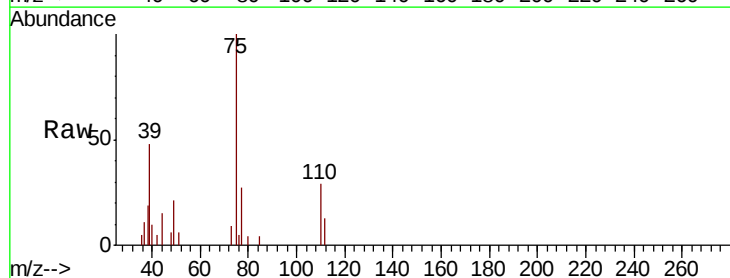
Tgt Ion: 75 Resp: 8015

Ion Ratio Lower Upper

75 100

39 48.4 33.9 50.9

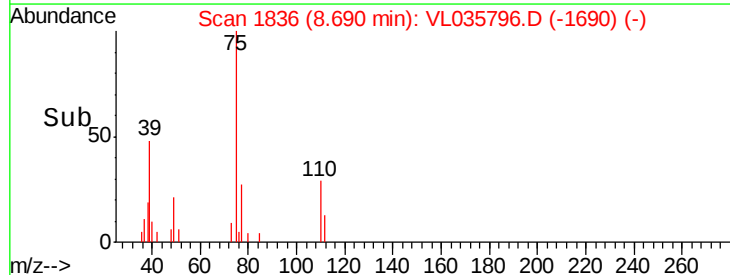
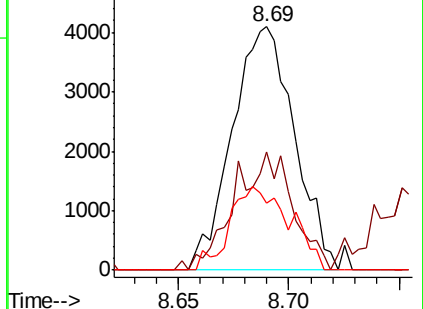
77 27.3 27.4 41.0#

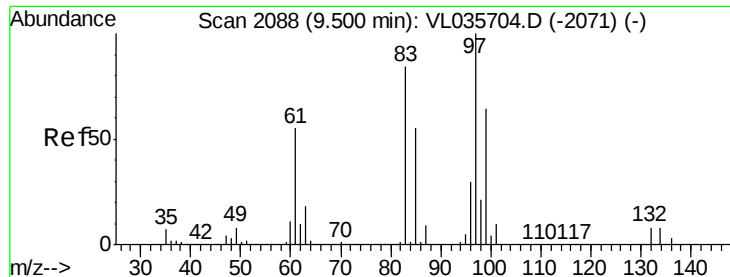


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

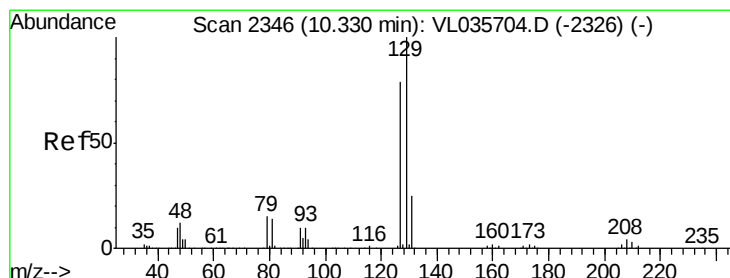
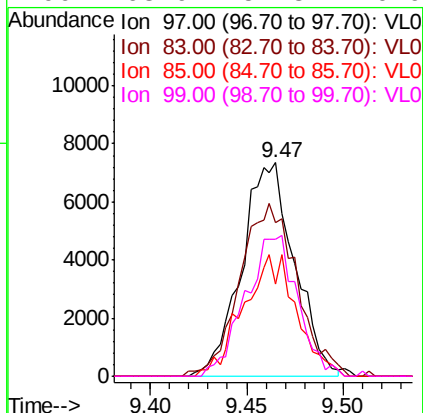
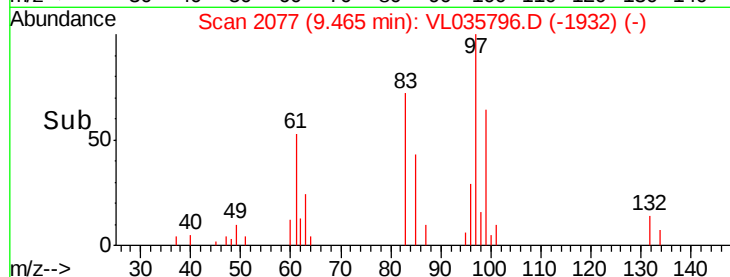
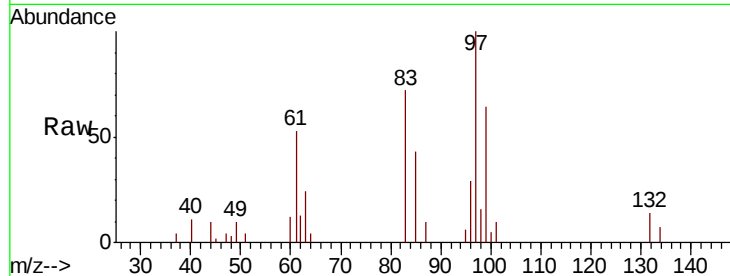




#47
 1,1,2-Trichloroethane
 Concen: 0.104 ppbv
 RT: 9.47 min Scan# 2077
 Delta R.T. -0.04 min
 Lab File: VL035796.D
 Acq: 19 Oct 2020 16:19

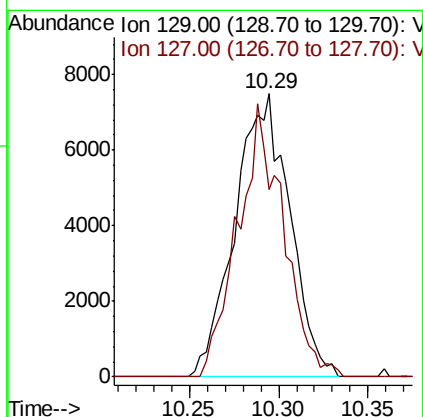
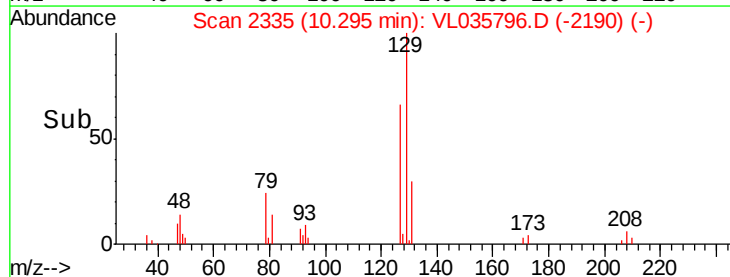
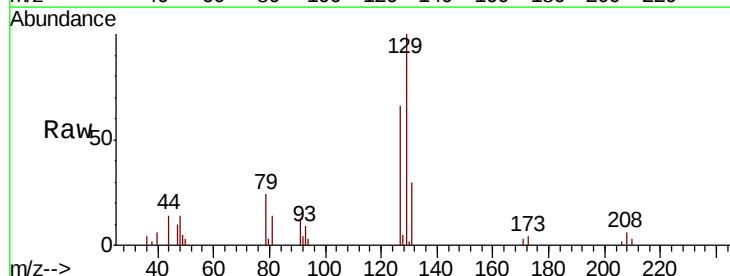
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT4-2020

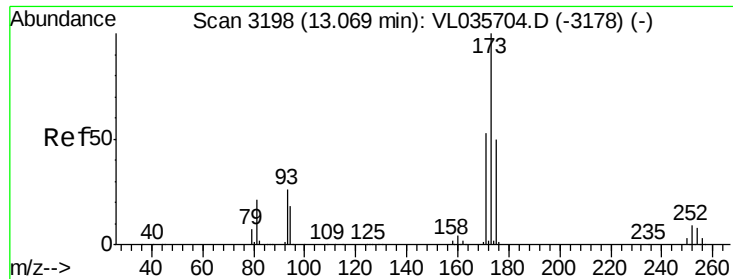
Tot Ion: 97 Resp: 14021
 Ion Ratio Lower Upper
 97 100
 83 69.6 67.1 100.7
 85 43.1 43.9 65.9#
 99 63.9 51.3 76.9



#48
 Dibromochloromethane
 Concen: 0.078 ppbv
 RT: 10.29 min Scan# 2335
 Delta R.T. -0.04 min
 Lab File: VL035796.D
 Acq: 19 Oct 2020 16:19

Tgt Ion: 129 Resp: 16001
 Ion Ratio Lower Upper
 129 100
 127 80.3 39.4 118.1





#49

Bromoform

Concen: 0.073 ppbv

RT: 13.03 min Scan# 3186

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

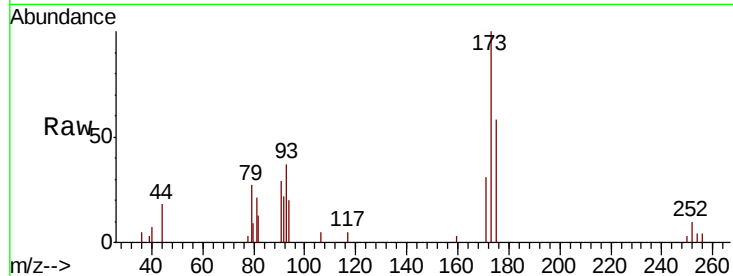
Tot Ion:173 Resp: 12628

Ion Ratio Lower Upper

173 100

175 51.6 39.8 59.6

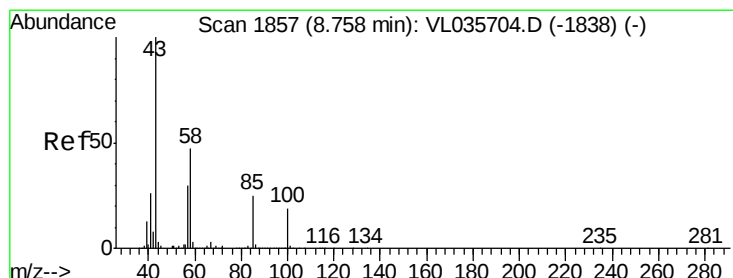
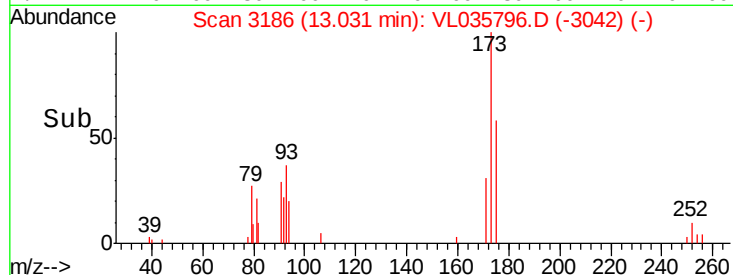
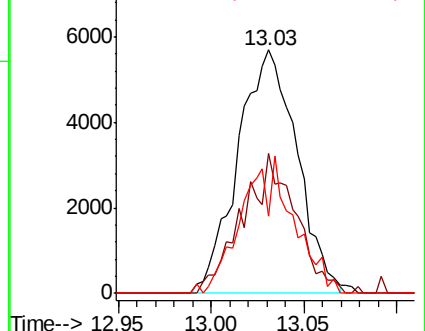
171 49.4 42.8 64.2



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 0.040 ppbv

RT: 8.75 min Scan# 1855

Delta R.T. -0.01 min

Lab File: VL035796.D

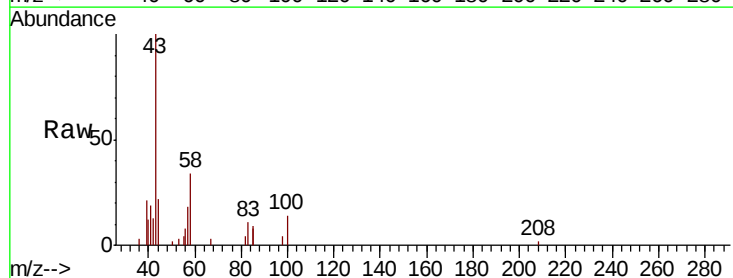
Acq: 19 Oct 2020 16:19

Tgt Ion: 43 Resp: 7724

Ion Ratio Lower Upper

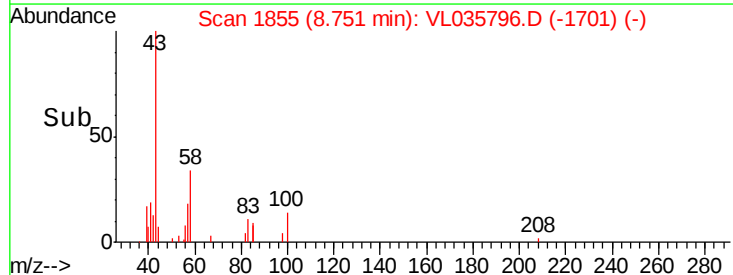
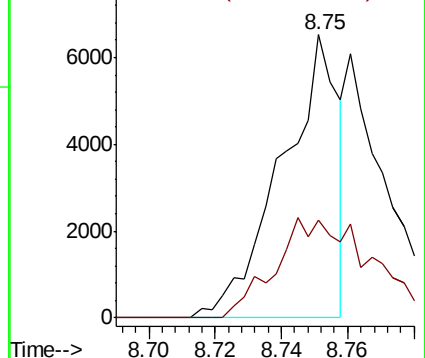
43 100

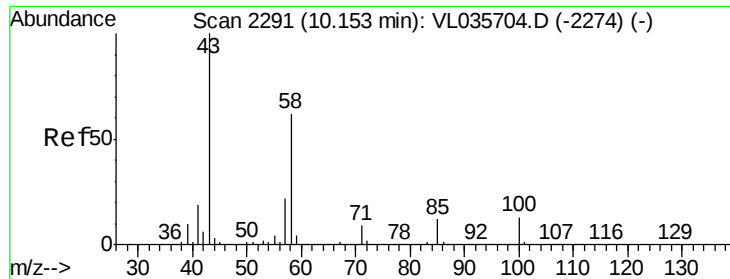
58 60.8 36.6 54.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 0.051 ppbv

RT: 10.15 min Scan# 2289

Delta R.T. -0.01 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

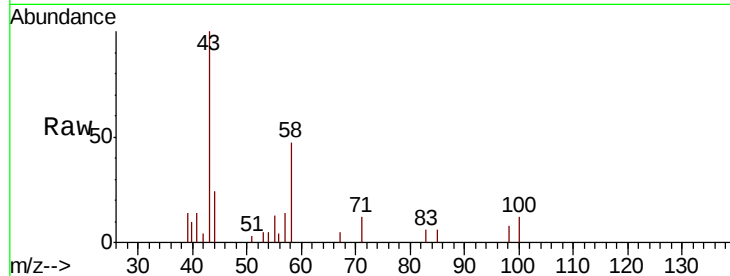
Tot Ion: 43 Resp: 7826

Ion Ratio Lower Upper

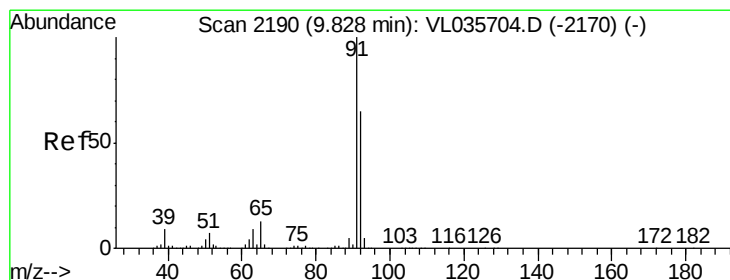
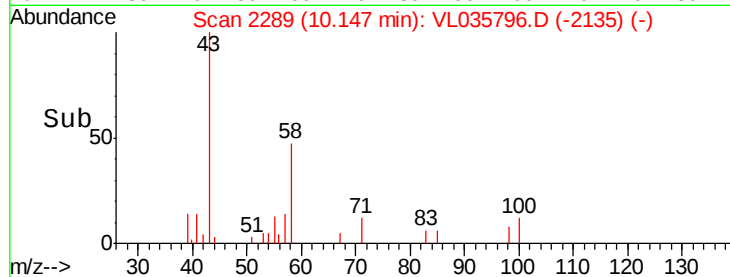
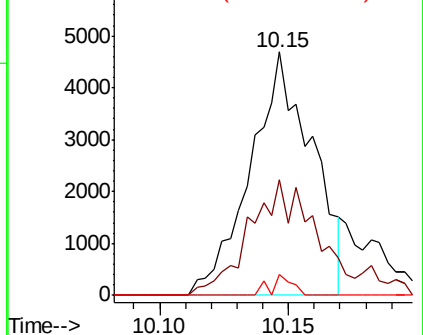
43 100

58 55.7 48.7 73.1

98 2.8 0.7 1.1#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#53

Toluene

Concen: 0.043 ppbv

RT: 9.79 min Scan# 2178

Delta R.T. -0.04 min

Lab File: VL035796.D

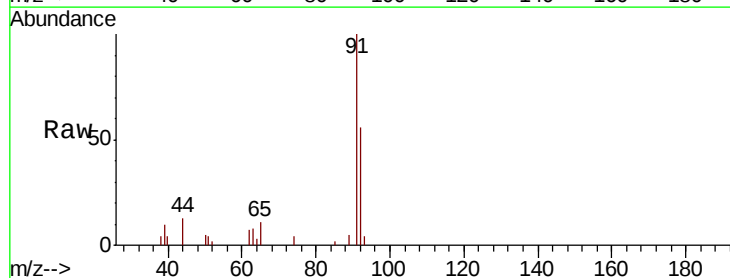
Acq: 19 Oct 2020 16:19

Tgt Ion: 91 Resp: 13177

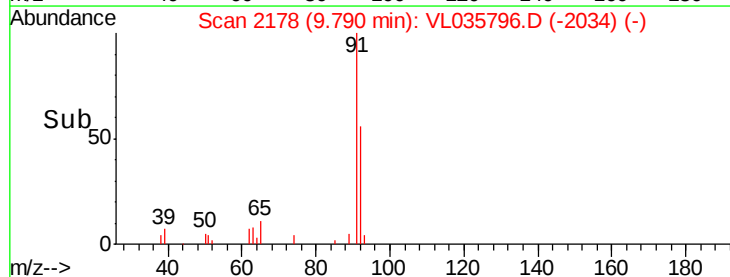
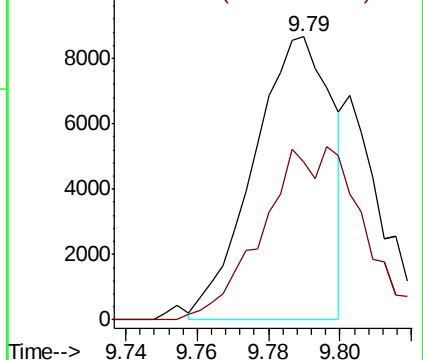
Ion Ratio Lower Upper

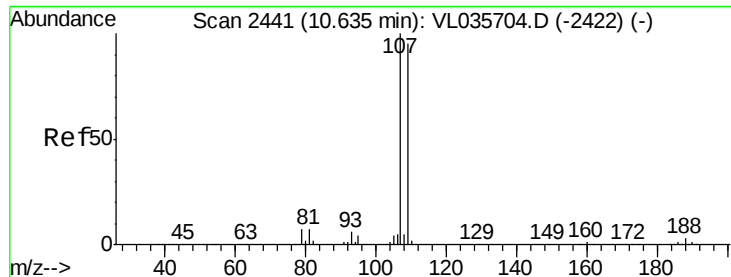
91 100

92 0.0 50.0 75.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0





#54

1,2-Dibromoethane

Concen: 0.094 ppbv

RT: 10.60 min Scan# 2429

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

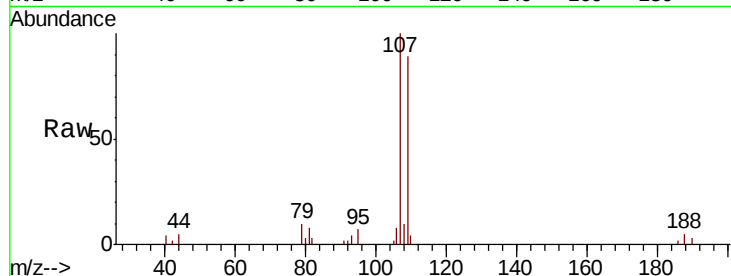
MDL-AIR-01-QT4-2020

Tot Ion:107 Resp: 18920

Ion Ratio Lower Upper

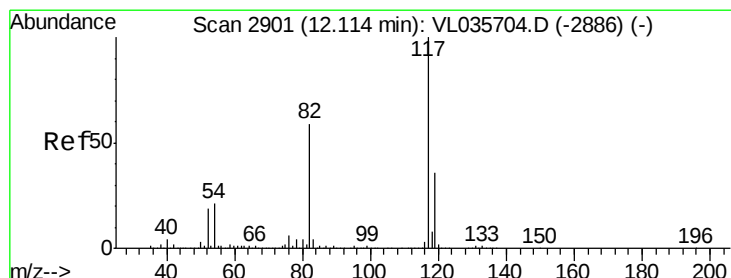
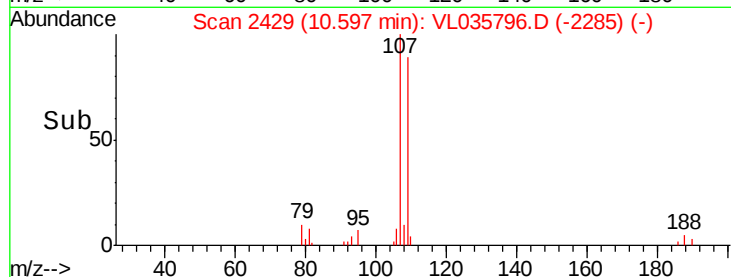
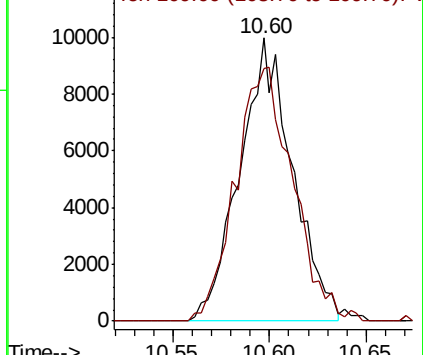
107 100

109 89.2 76.0 114.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2889

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

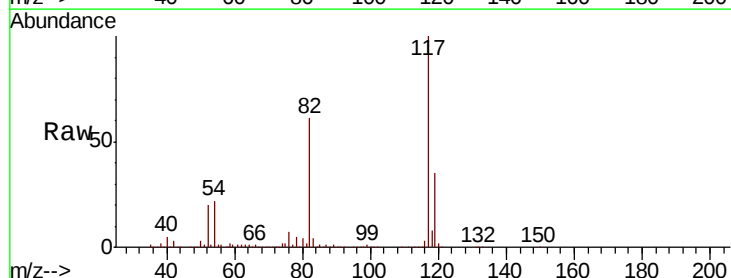
Tgt Ion:117 Resp: 3956167

Ion Ratio Lower Upper

117 100

82 59.0 46.1 69.1

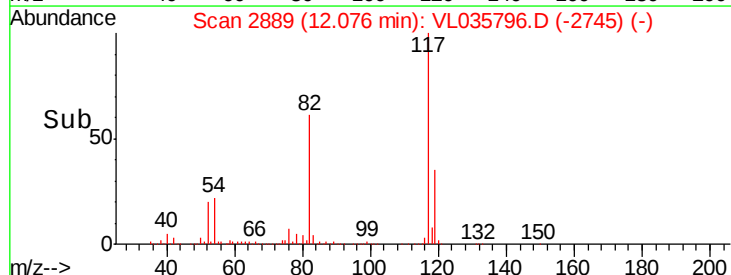
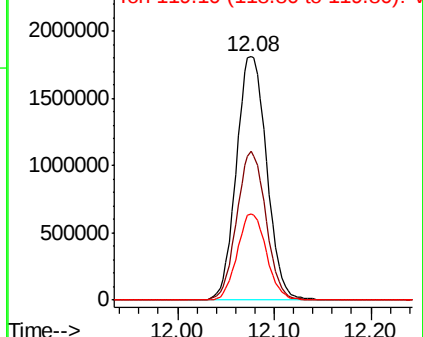
119 34.4 28.0 42.0

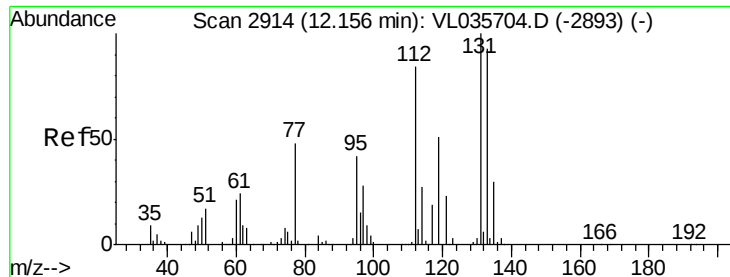


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#56

1,1,1,2-Tetrachloroethane

Concen: 0.109 ppbv

RT: 12.12 min Scan# 2903

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

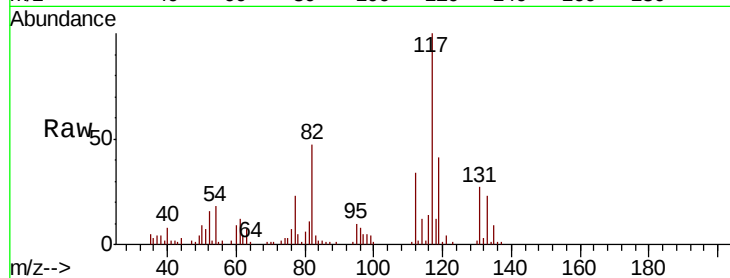
Tot Ion:131 Resp: 18125

Ion Ratio Lower Upper

131 100

133 90.1 76.2 114.4

119 7497.4 52.4 78.6#



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

800000

600000

400000

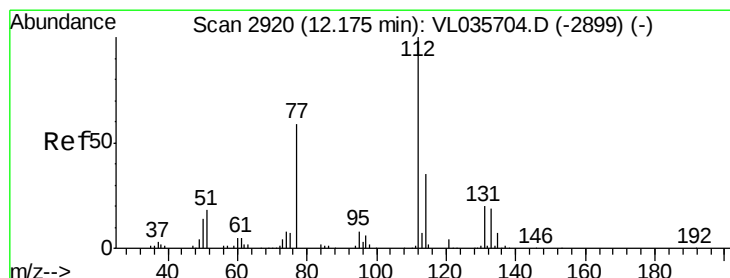
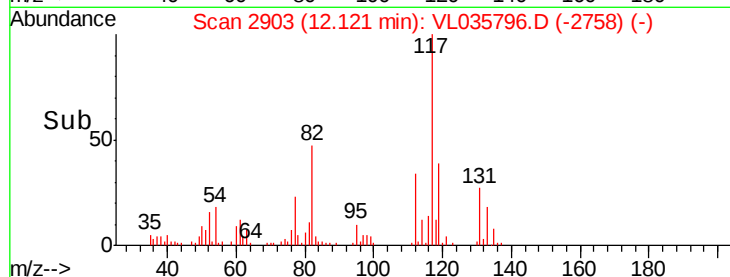
200000

0

12.05 12.10 12.15

12.12

Time-->



#57

Chlorobenzene

Concen: 0.119 ppbv

RT: 12.13 min Scan# 2907

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

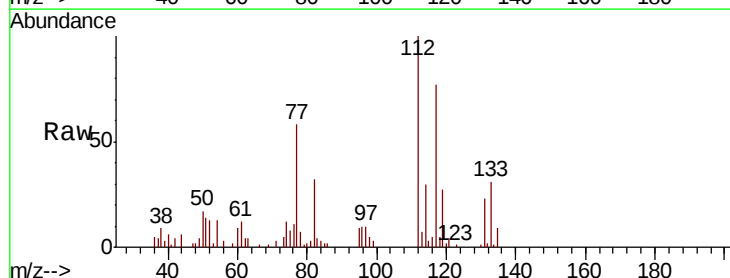
Tgt Ion:112 Resp: 35528

Ion Ratio Lower Upper

112 100

77 56.6 48.2 72.2

114 30.0 31.9 39.1#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V

25000

20000

15000

10000

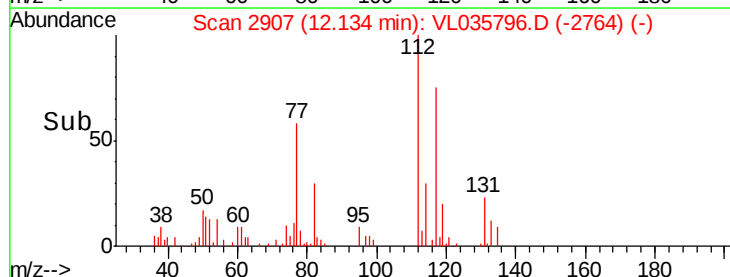
5000

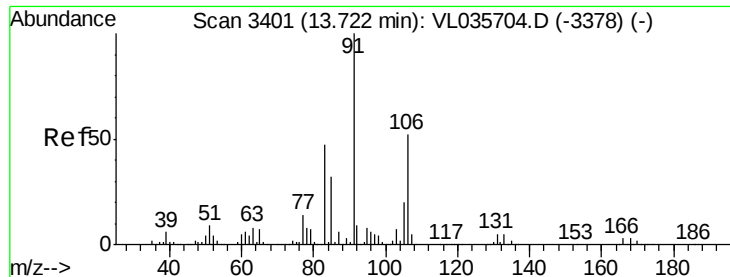
0

12.10 12.15 12.20

12.13

Time-->

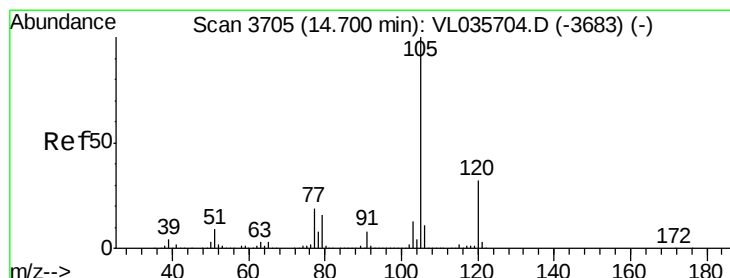
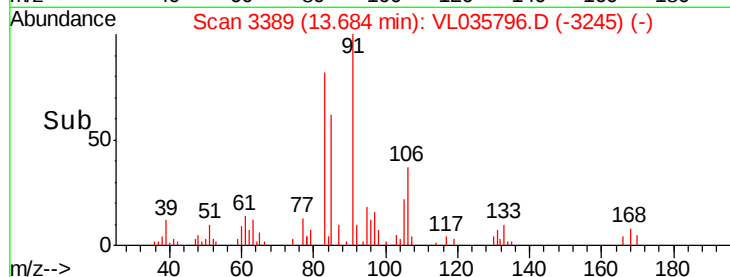
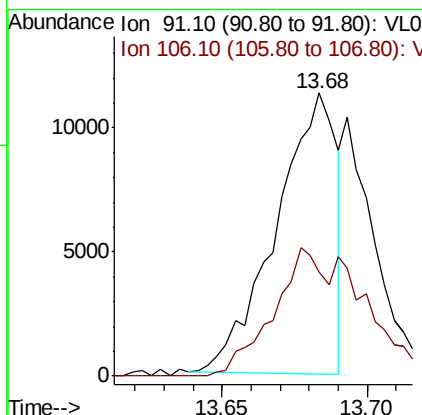
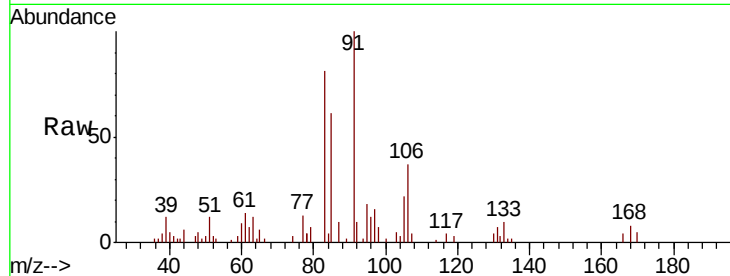




#60
o-Xylene
Concen: 0.046 ppbv
RT: 13.68 min Scan# 3389
Delta R.T. -0.04 min
Lab File: VL035796.D
Acq: 19 Oct 2020 16:19

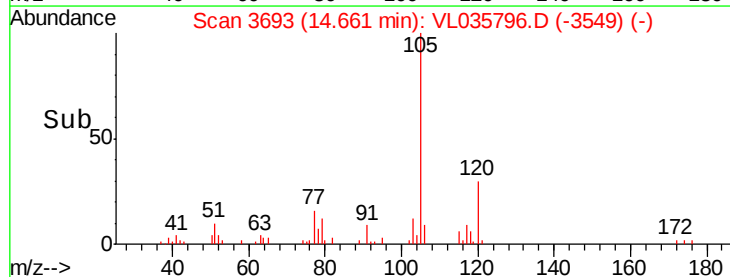
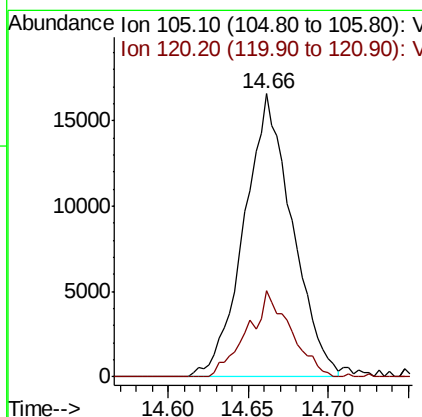
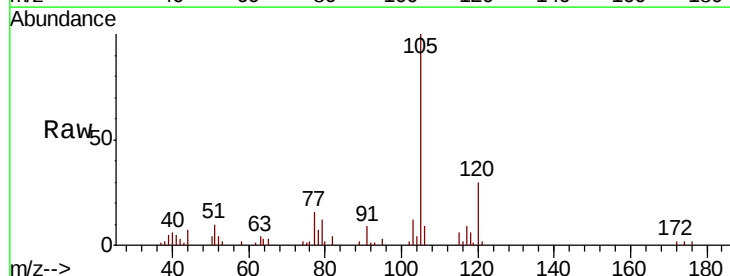
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT4-2020

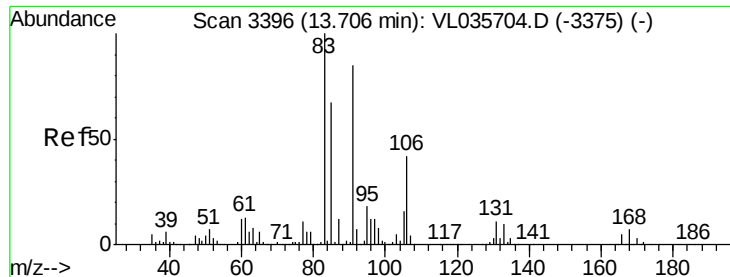
Tot Ion: 91 Resp: 16270
Ion Ratio Lower Upper
91 100
106 66.9 25.0 75.0



#62
Isopropylbenzene
Concen: 0.063 ppbv
RT: 14.66 min Scan# 3693
Delta R.T. -0.04 min
Lab File: VL035796.D
Acq: 19 Oct 2020 16:19

Tgt Ion: 105 Resp: 34225
Ion Ratio Lower Upper
105 100
120 27.6 24.1 36.1

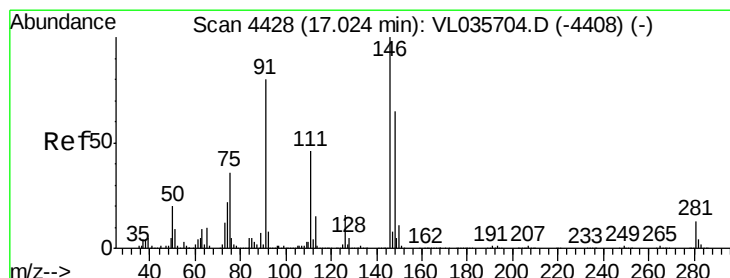
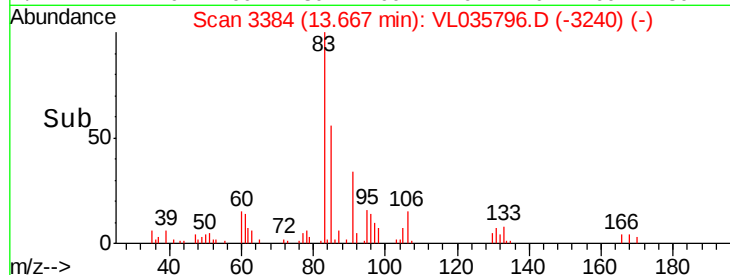
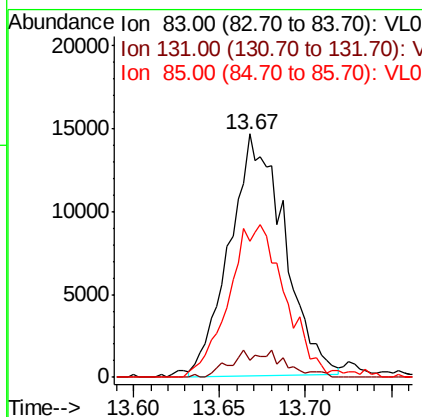
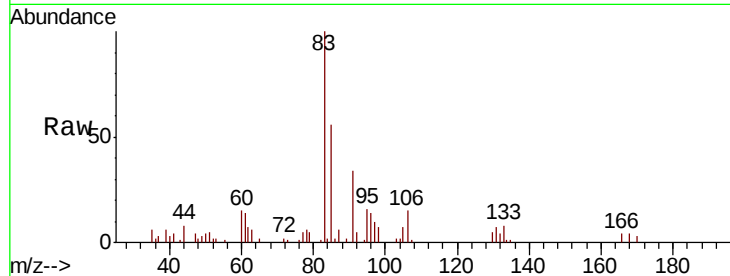




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.112 ppbv
 RT: 13.67 min Scan# 3384
 Delta R.T. -0.04 min
 Lab File: VL035796.D
 Acq: 19 Oct 2020 16:19

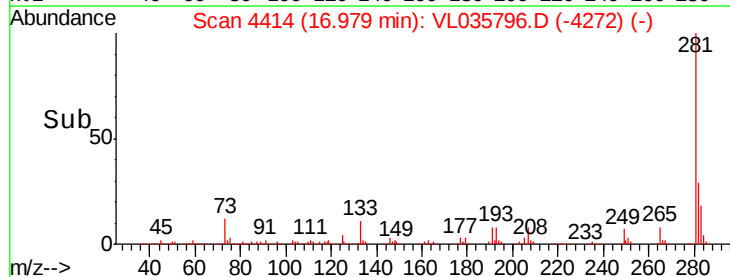
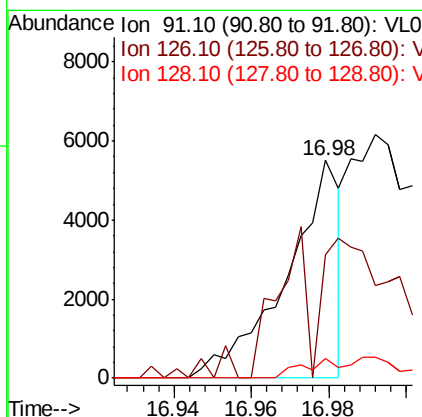
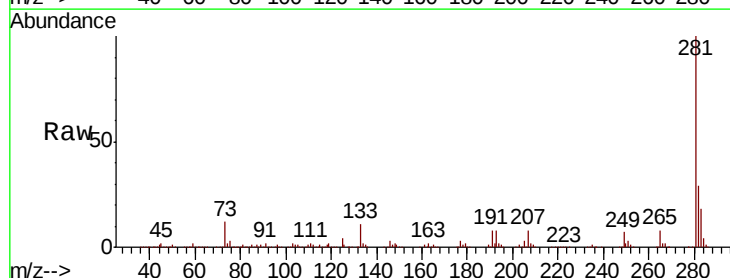
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT4-2020

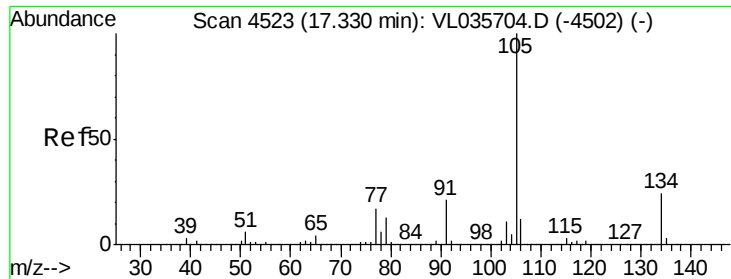
Tot Ion: 83 Resp: 32300
 Ion Ratio Lower Upper
 83 100
 131 10.5 5.3 16.1
 85 66.2 33.4 100.2



#66
 Benzyl Chloride
 Concen: 0.035 ppbv
 RT: 16.98 min Scan# 4414
 Delta R.T. -0.04 min
 Lab File: VL035796.D
 Acq: 19 Oct 2020 16:19

Tgt Ion: 91 Resp: 5313
 Ion Ratio Lower Upper
 91 100
 126 151.6 15.3 22.9#
 128 0.0 5.0 7.4#





#67

sec-Butylbenzene

Concen: 0.034 ppbv

RT: 17.29 min Scan# 4512

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

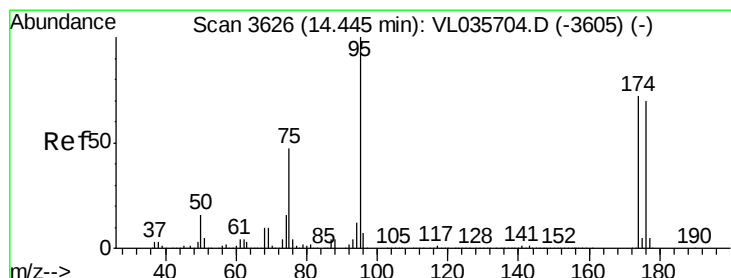
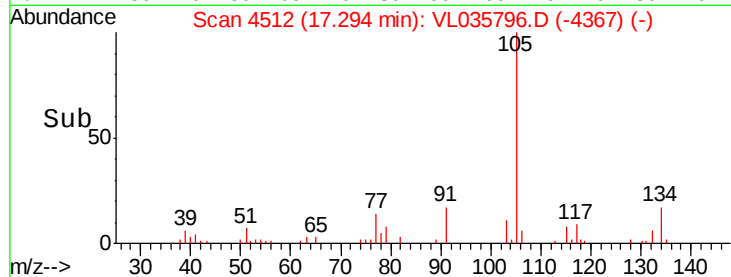
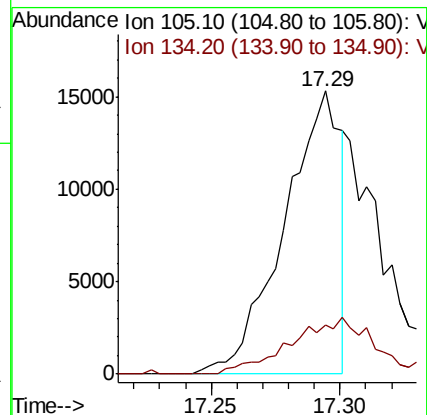
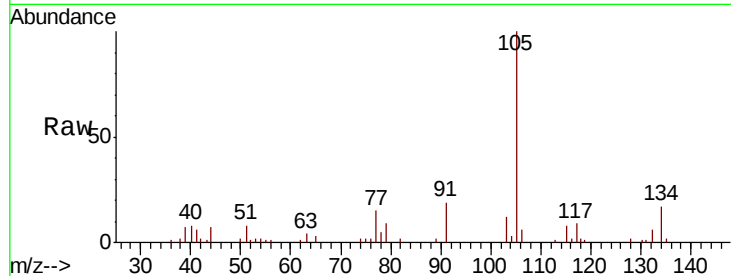
MDL-AIR-01-QT4-2020

Tot Ion:105 Resp: 23329

Ion Ratio Lower Upper

105 100

134 30.3 17.6 26.4#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.061 ppbv

RT: 14.41 min Scan# 3615

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

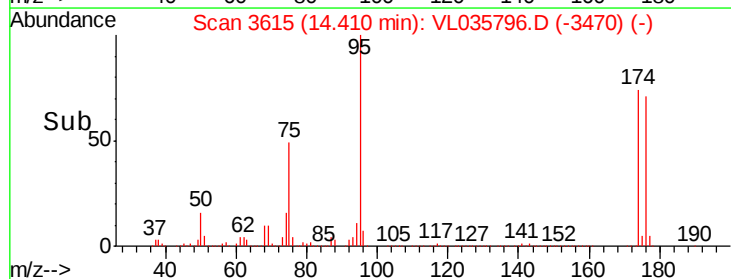
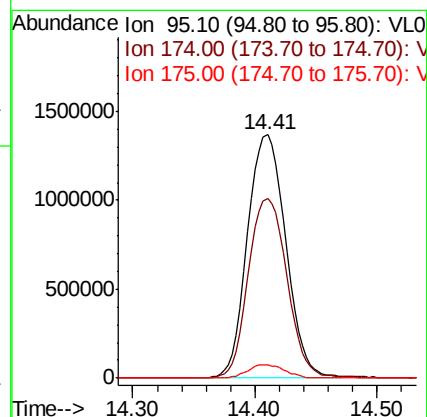
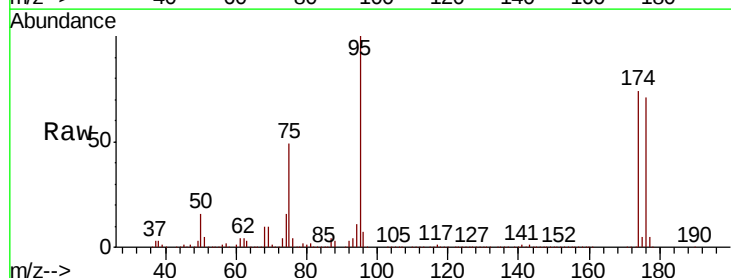
Tgt Ion: 95 Resp: 2982599

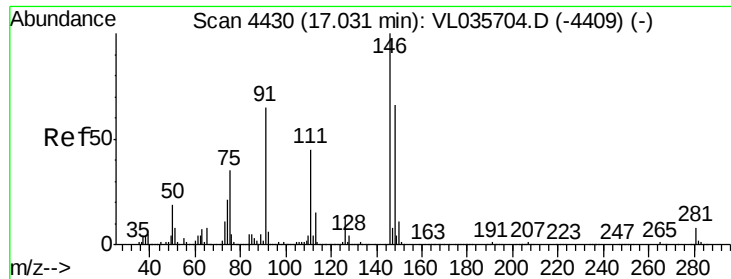
Ion Ratio Lower Upper

95 100

174 75.1 59.6 89.4

175 5.4 4.2 6.4





#75

1,3-Dichlorobenzene

Concen: 0.061 ppbv

RT: 16.99 min Scan# 4417

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

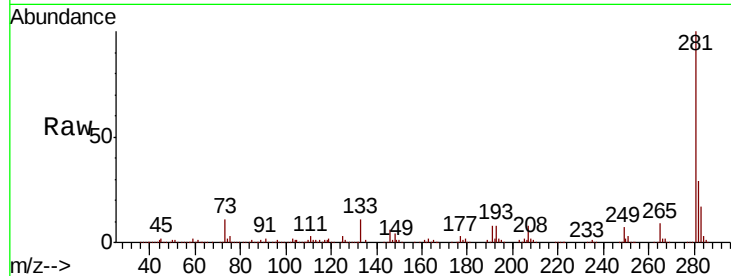
Tot Ion:146 Resp: 18534

Ion Ratio Lower Upper

146 100

111 0.0 22.4 67.0#

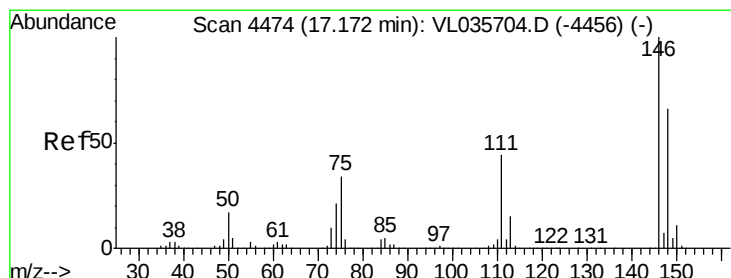
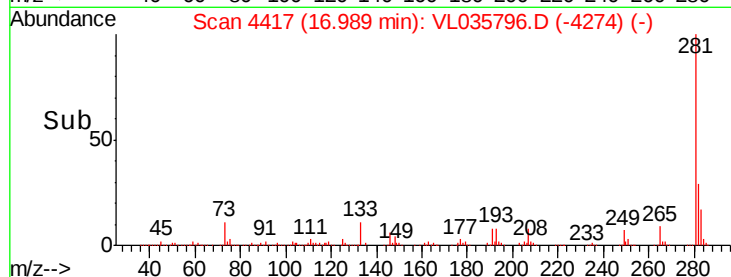
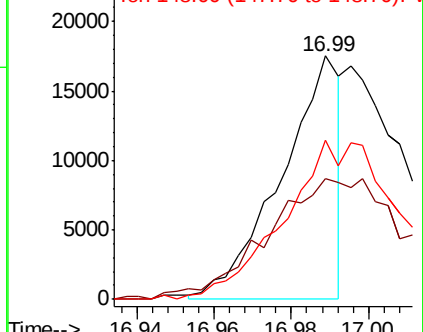
148 134.6 33.0 99.0#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 0.039 ppbv

RT: 17.13 min Scan# 4461

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

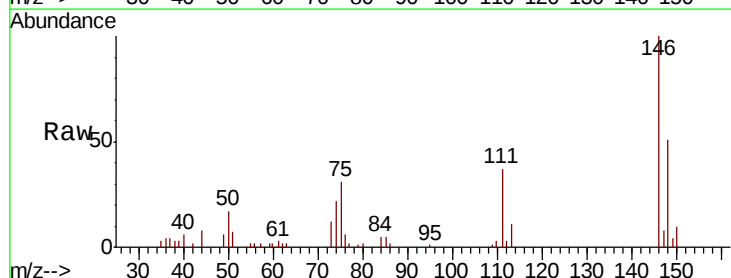
Tgt Ion:146 Resp: 11379

Ion Ratio Lower Upper

146 100

111 0.0 21.4 64.3#

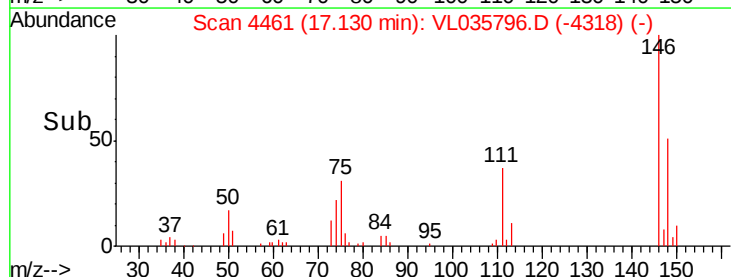
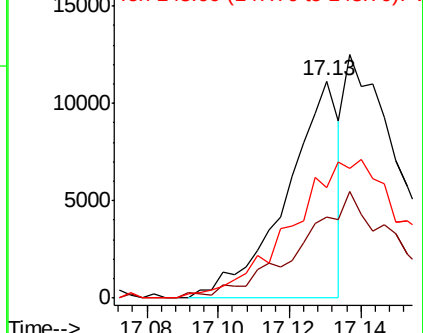
148 0.0 32.6 98.0#

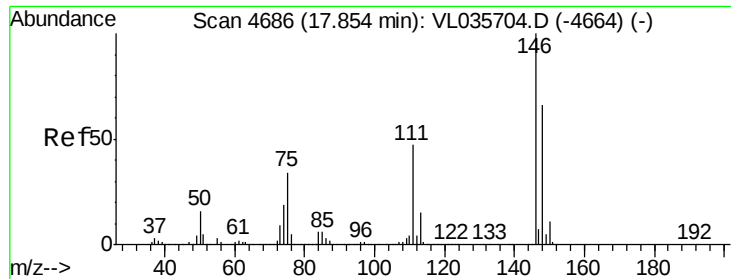


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77
 1,2-Dichlorobenzene
 Concen: 0.036 ppbv
 RT: 17.82 min Scan# 4674
 Delta R.T. -0.04 min
 Lab File: VL035796.D
 Acq: 19 Oct 2020 16:19

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT4-2020

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	22.9	68.5#
148	0.0	32.6	98.0#

