

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101920\
 Data File : VL035794.D
 Acq On : 19 Oct 2020 14:39
 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 08:25:55 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	1164907	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.16	114	4191975	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.07	117	4115691	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	3121131	10.12	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	30794	0.161	ppbv	98
3) Chlorodifluoromethane	2.97	51	14320	0.114	ppbv	100
4) Chloromethane	3.12	50	7779	0.116	ppbv	89
5) Vinyl Chloride	3.24	62	7828	0.098	ppbv #	87
6) Bromomethane	3.46	94	7632	0.113	ppbv	84
7) Chloroethane	3.54	64	3370	0.115	ppbv	98
8) Dichlorotetrafluoroethane	3.17	85	26850	0.116	ppbv	100
9) Propene	3.00	41	7369	0.162	ppbv	84
10) Heptane	8.11	43	7117m	0.056	ppbv	
11) Trichlorofluoromethane	3.93	101	31625	0.116	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.47	101	22618	0.111	ppbv	99
13) Ethanol	3.60	45	2220m	0.198	ppbv	
14) Bromoethene	3.72	108	8750	0.102	ppbv #	96
15) Acetone	3.85	43	29219	0.233	ppbv #	68
16) 1,3-Butadiene	3.31	39	4492m	0.098	ppbv	
17) tert-Butyl alcohol	4.31	59	16229	0.119	ppbv	99
18) 1,1-Dichloroethene	4.27	96	9098	0.102	ppbv	99
19) Isopropyl Alcohol	3.97	45	9145	0.134	ppbv #	88
20) Methylene Chloride	4.32	84	23504	0.255	ppbv	90
21) Allyl Chloride	4.39	41	6072	0.100	ppbv	89
22) trans-1,2-Dichloroethene	4.86	96	10067	0.107	ppbv	89
23) Vinyl Acetate	5.06	43	13110	0.085	ppbv #	81
24) 1,1-Dichloroethane	4.99	63	18719	0.112	ppbv #	90
25) Ethyl Acetate	5.67	43	23099	0.102	ppbv #	95
26) Hexane	5.66	57	11268m	0.091	ppbv	
27) Carbon Disulfide	4.53	76	17582	0.095	ppbv #	94
28) Methyl tert-Butyl Ether	5.03	73	13783	0.070	ppbv	96
29) Chloroform	5.73	83	28675	0.114	ppbv	84
30) Cyclohexane	7.14	84	22875m	0.188	ppbv	
31) cis-1,2-Dichloroethene	5.53	61	8841m	0.074	ppbv	
32) 1,1,1-Trichloroethane	6.49	97	21698	0.098	ppbv	96
34) 2-Butanone	5.24	43	13865	0.100	ppbv	96
35) Carbon Tetrachloride	7.00	117	21991m	0.101	ppbv	
36) Benzene	6.87	78	18706	0.068	ppbv	95
37) 1,2-Dichloroethane	6.29	62	14626	0.103	ppbv	97
38) Trichloroethene	7.82	130	11968	0.088	ppbv	93
39) 1,2-Dichloropropane	7.59	63	11140m	0.113	ppbv	
40) 1,4-Dioxane	7.88	88	3177m	0.070	ppbv	
41) Tetrahydrofuran	6.07	42	3739	0.054	ppbv	96
42) Bromodichloromethane	7.77	83	21742	0.095	ppbv	86
43) Methyl Methacrylate	8.01	69	6342	0.058	ppbv	98

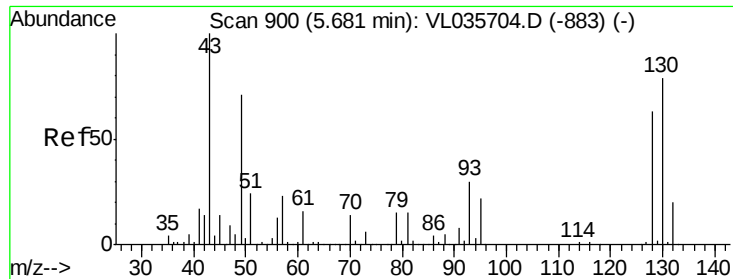
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101920\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.85	57	23648m	0.060	ppbv	
45) t-1,3-Dichloropropene	9.26	75	6015	0.055	ppbv	97
46) cis-1,3-Dichloropropene	8.69	75	8748m	0.065	ppbv	
47) 1,1,2-Trichloroethane	9.46	97	13589	0.096	ppbv	97
48) Dibromochloromethane	10.29	129	16853	0.078	ppbv	93
49) Bromoform	13.03	173	12703m	0.069	ppbv	
50) 4-Methyl-2-Pentanone	8.75	43	13171m	0.065	ppbv	
51) 2-Hexanone	10.16	43	9158m	0.056	ppbv	
52) Tetrachloroethene	11.21	164	11396	0.087	ppbv	91
53) Toluene	9.79	91	18049m	0.056	ppbv	
54) 1,2-Dibromoethane	10.59	107	19788m	0.093	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.11	131	17648	0.102	ppbv #	1
57) Chlorobenzene	12.13	112	35563	0.114	ppbv #	96
58) Ethyl Benzene	12.70	91	23859	0.058	ppbv	98
59) m/p-Xylene	12.98	91	39291m	0.109	ppbv	
60) o-Xylene	13.68	91	25182	0.069	ppbv	93
61) Styrene	13.52	104	9502	0.038	ppbv #	85
62) Isopropylbenzene	14.66	105	36087	0.064	ppbv	95
63) 1,1,2,2-Tetrachloroethane	13.67	83	31203m	0.104	ppbv	
64) n-propylbenzene	15.56	120	7144m	0.043	ppbv	
65) tert-Butylbenzene	16.74	119	23812	0.046	ppbv	89
66) Benzyl Chloride	16.99	91	12869m	0.083	ppbv	
67) sec-Butylbenzene	17.30	105	37128m	0.052	ppbv	
69) p-Isopropyltoluene	17.66	119	22860	0.040	ppbv #	93
70) n-Butylbenzene	18.55	91	26759	0.045	ppbv	92
71) 2-Chlorotoluene	15.44	91	24334	0.059	ppbv	92
72) 4-Ethyltoluene	15.84	105	18357	0.042	ppbv #	93
73) 1,3,5-Trimethylbenzene	16.00	105	18401m	0.045	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	23253m	0.050	ppbv	
75) 1,3-Dichlorobenzene	16.99	146	37288m	0.119	ppbv	
76) 1,4-Dichlorobenzene	17.13	146	26668m	0.089	ppbv	
77) 1,2-Dichlorobenzene	17.82	146	22722m	0.077	ppbv	
78) Hexachloro-1,3-Butadiene	23.38	225	20026m	0.122	ppbv	
79) Naphthalene	22.21	128	19789m	0.045	ppbv	
81) 1,2,4-Trichlorobenzene	21.94	180	14939m	0.066	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.03 min

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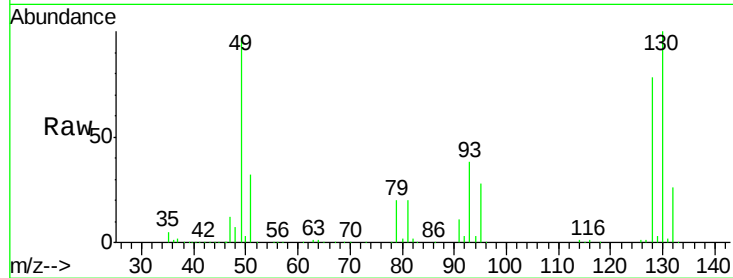
Tot Ion: 49 Resp: 1164907

Ion Ratio Lower Upper

49 100

128 80.6 43.1 129.4

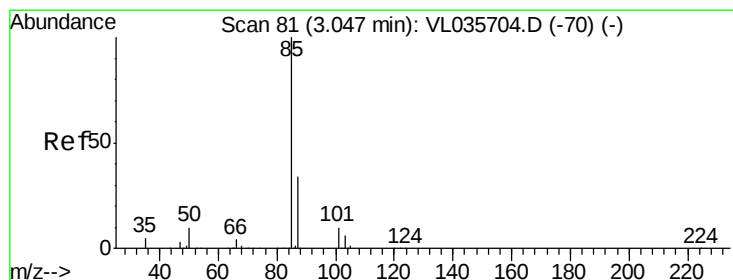
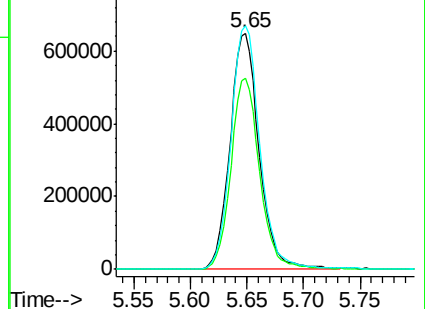
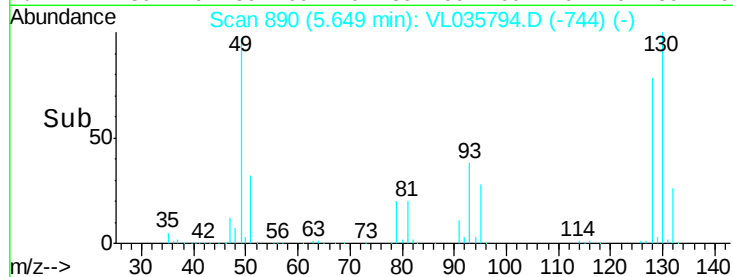
130 103.1 54.9 164.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.161 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.02 min

Lab File: VL035794.D

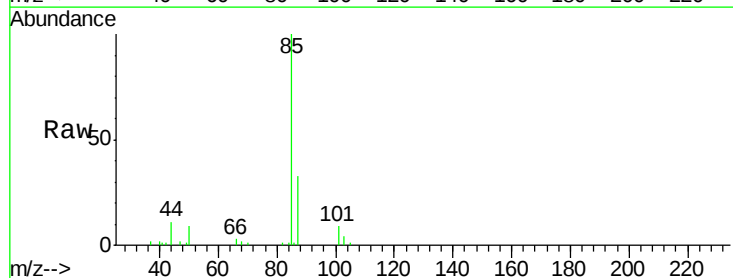
Acq: 19 Oct 2020 14:39

Tgt Ion: 85 Resp: 30794

Ion Ratio Lower Upper

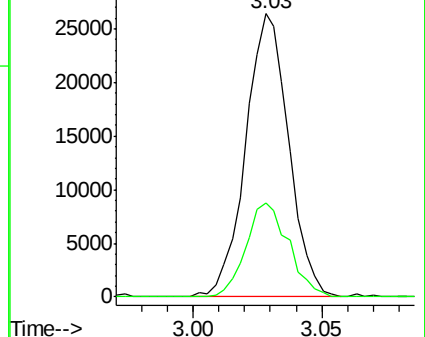
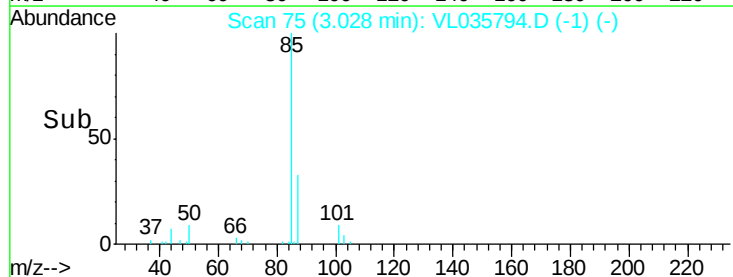
85 100

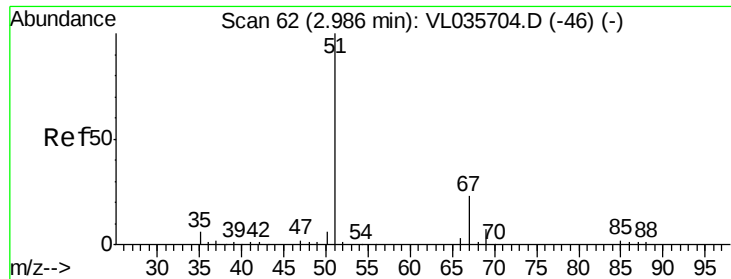
87 33.0 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.114 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.02 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

Instrument :

MSVOA_L

ClientSampleId :

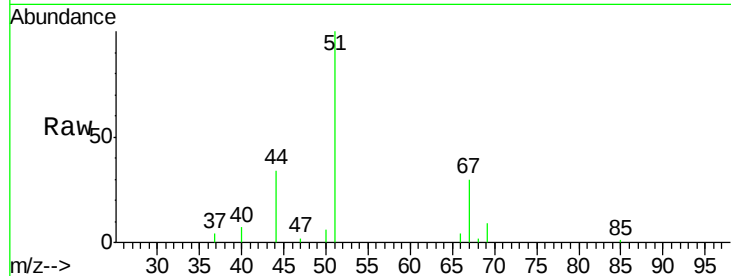
MDL-AIR-01-QT4-2020

Tot Ion: 51 Resp: 14320

Ion Ratio Lower Upper

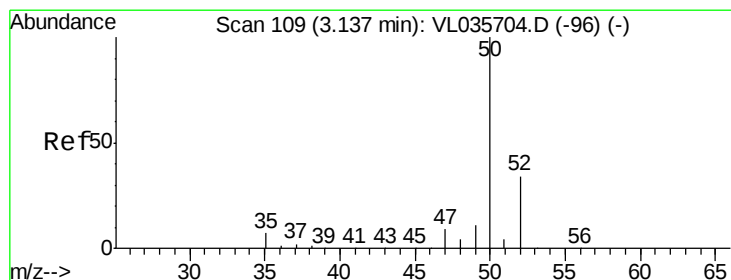
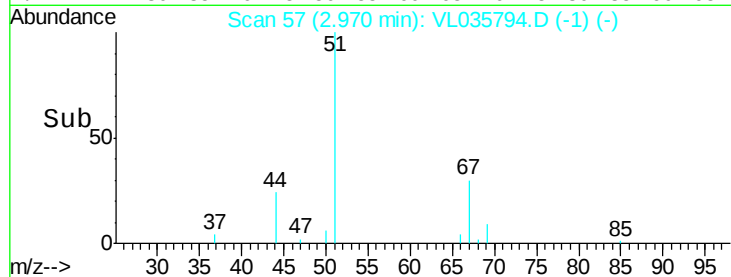
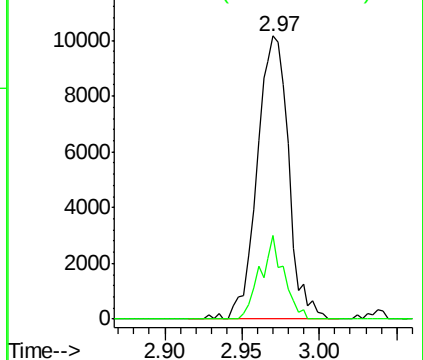
51 100

67 22.1 17.8 26.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.116 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.02 min

Lab File: VL035794.D

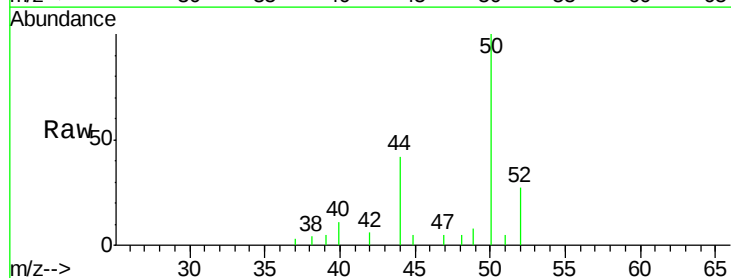
Acq: 19 Oct 2020 14:39

Tgt Ion: 50 Resp: 7779

Ion Ratio Lower Upper

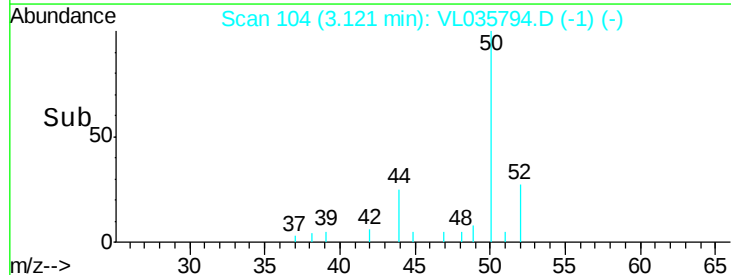
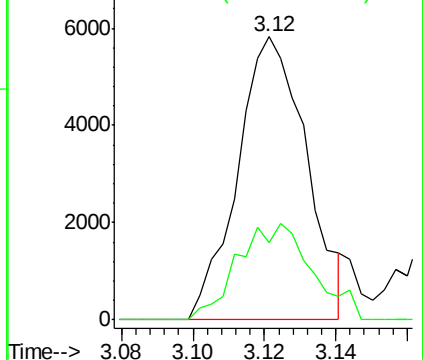
50 100

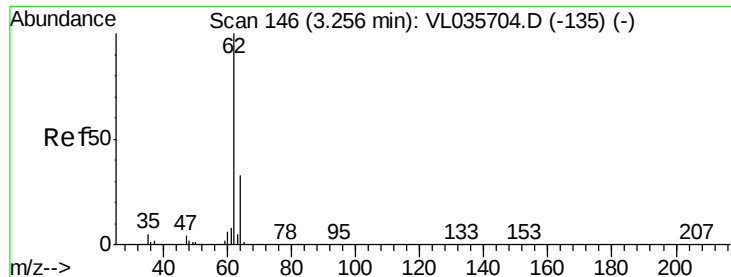
52 27.3 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.098 ppbv

RT: 3.24 min Scan# 140

Delta R.T. -0.02 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

Instrument :

MSVOA_L

ClientSampleId :

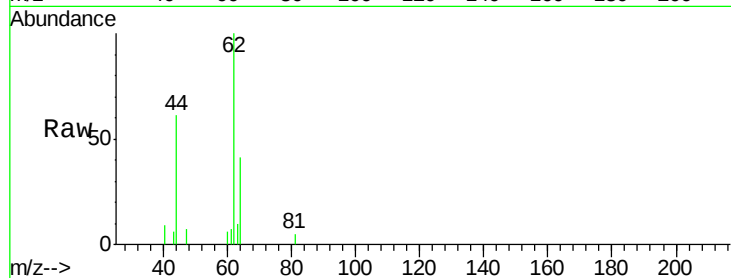
MDL-AIR-01-QT4-2020

Tot Ion: 62 Resp: 7828

Ion Ratio Lower Upper

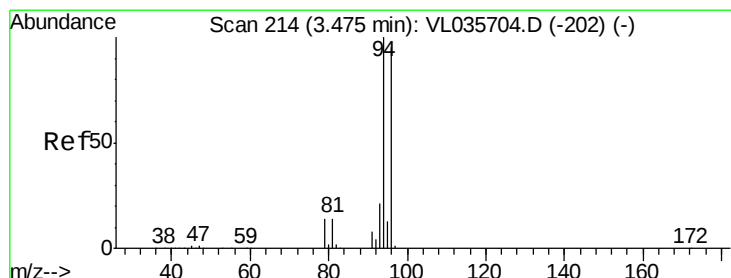
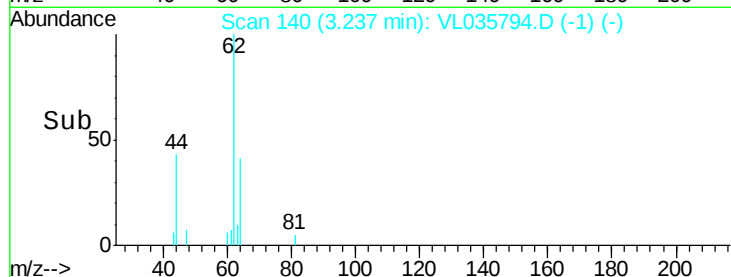
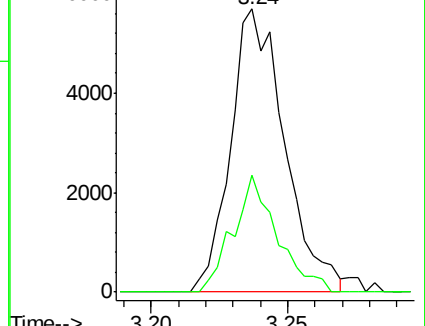
62 100

64 41.2 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: 0.113 ppbv

RT: 3.46 min Scan# 208

Delta R.T. -0.02 min

Lab File: VL035794.D

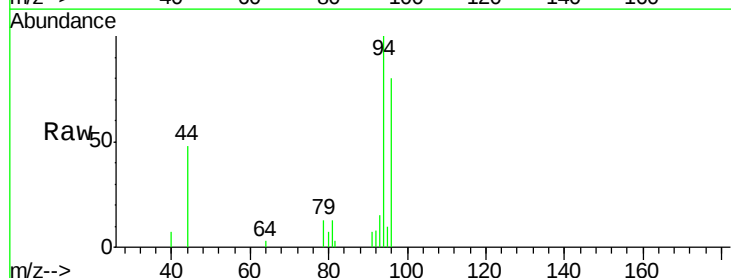
Acq: 19 Oct 2020 14:39

Tgt Ion: 94 Resp: 7632

Ion Ratio Lower Upper

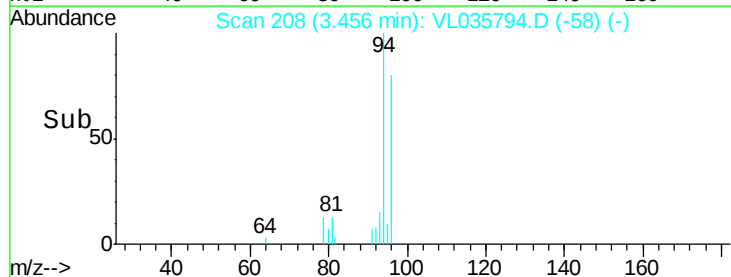
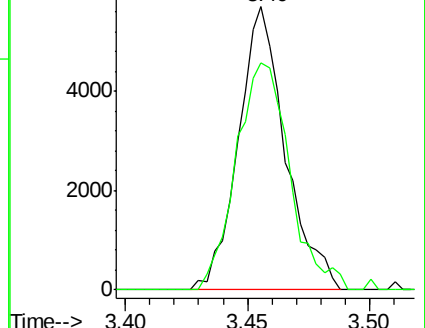
94 100

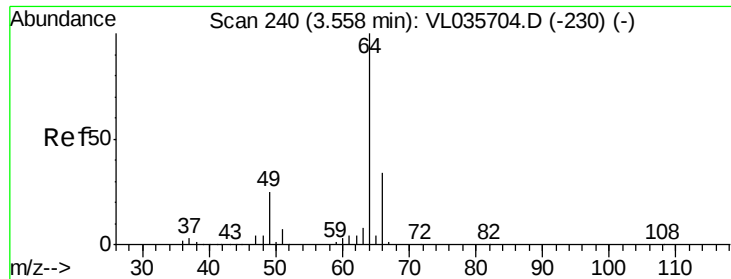
96 80.1 76.3 114.5



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.115 ppbv

RT: 3.54 min Scan# 235

Delta R.T. -0.02 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

Instrument :

MSVOA_L

ClientSampleId :

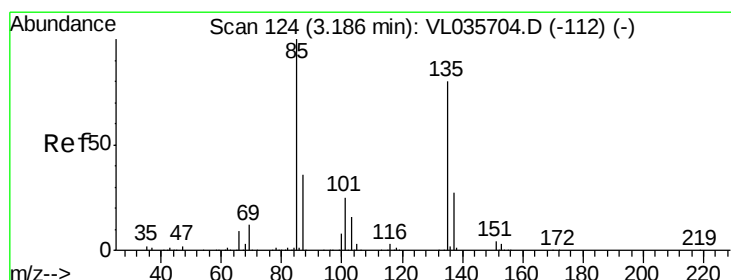
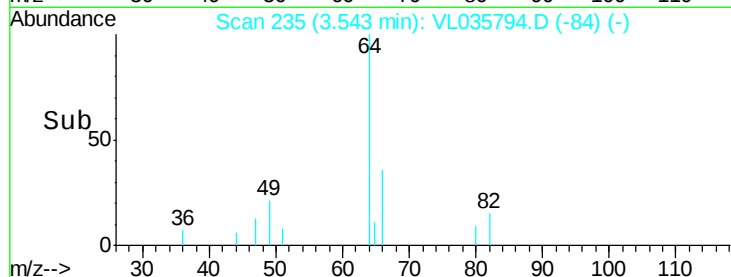
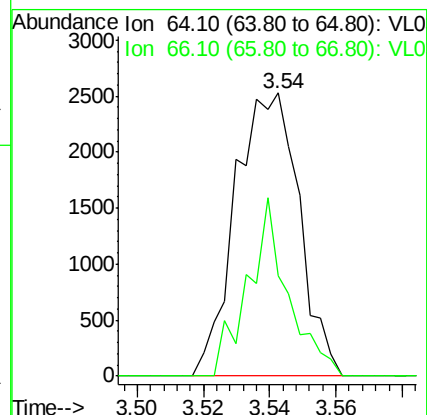
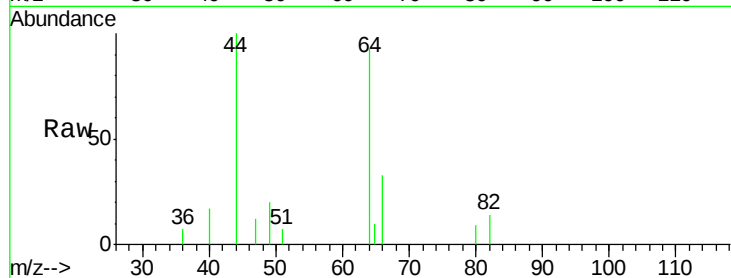
MDL-AIR-01-QT4-2020

Tot Ion: 64 Resp: 3370

Ion Ratio Lower Upper

64 100

66 32.2 26.9 40.3



#8

Dichlorotetrafluoroethane

Concen: 0.116 ppbv

RT: 3.17 min Scan# 119

Delta R.T. -0.02 min

Lab File: VL035794.D

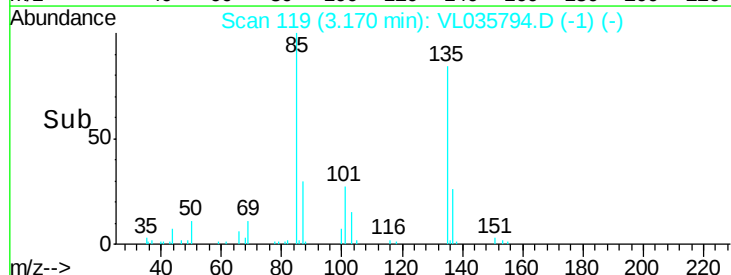
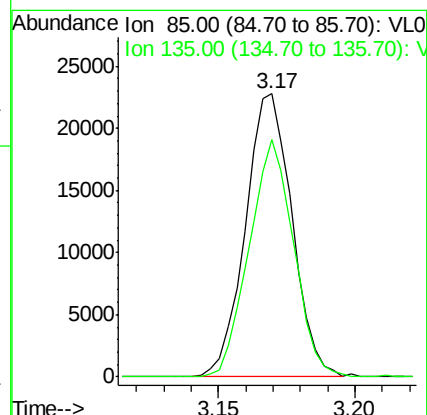
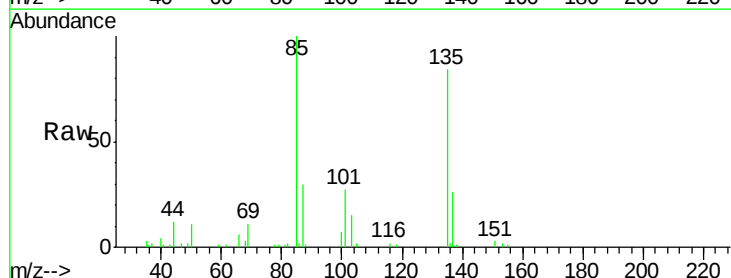
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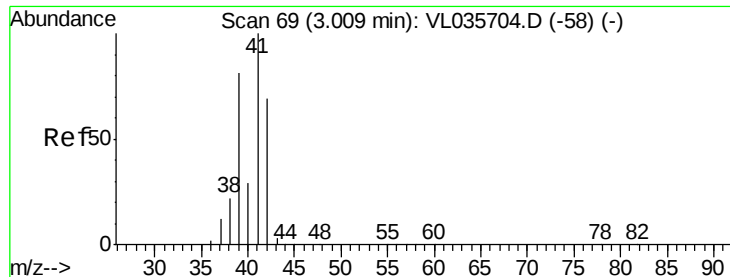
Tgt Ion: 85 Resp: 26850

Ion Ratio Lower Upper

85 100

135 80.1 64.3 96.5





#9

Propene

Concen: 0.162 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.01 min

Lab File: VL035794.D

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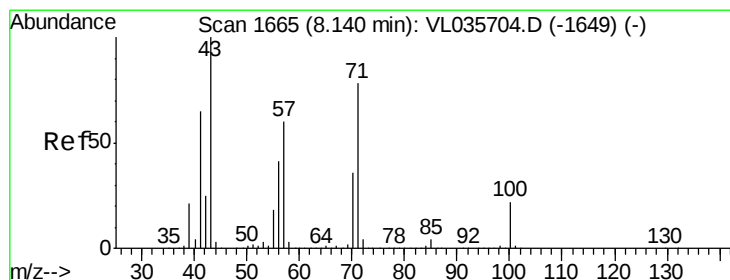
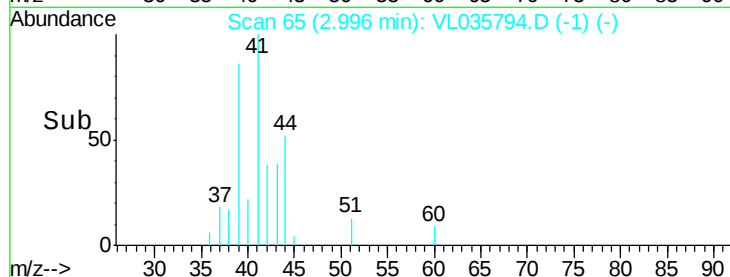
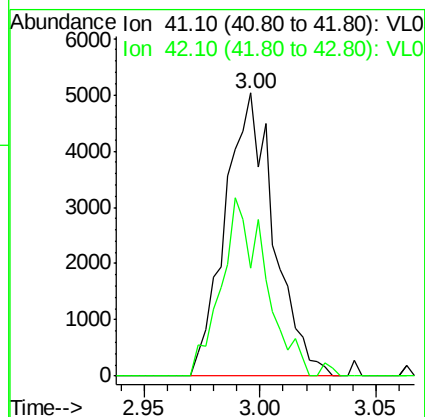
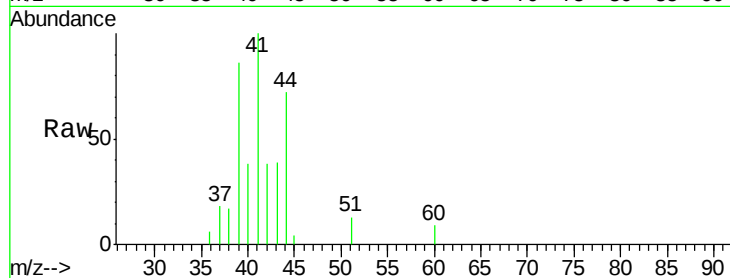
MDL-AIR-01-QT4-2020

Tot Ion: 41 Resp: 7369

Ion Ratio Lower Upper

41 100

42 57.5 56.2 84.4



#10

Heptane

Concen: 0.056 ppbv m

RT: 8.11 min Scan# 1655

Delta R.T. -0.03 min

Lab File: VL035794.D

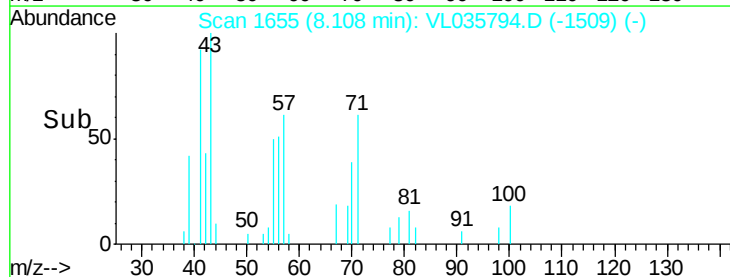
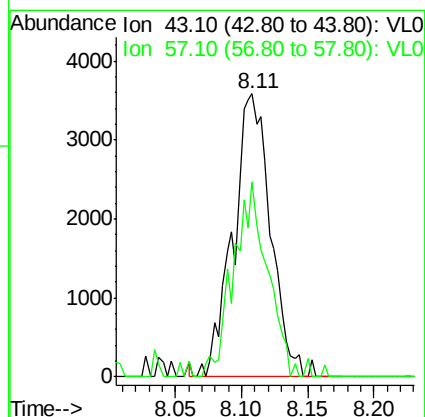
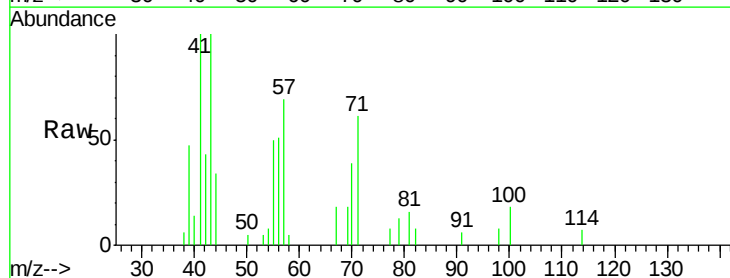
Acq: 19 Oct 2020 14:39

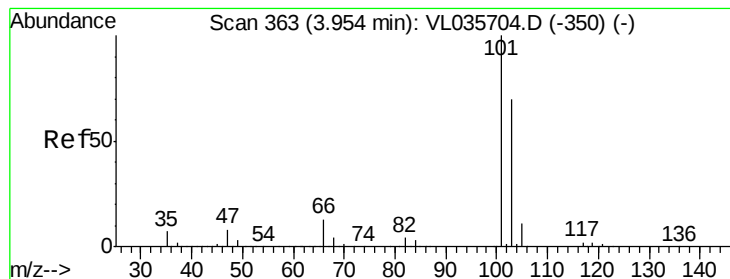
Tgt Ion: 43 Resp: 7117

Ion Ratio Lower Upper

43 100

57 0.0 50.4 75.6#





#11

Trichlorofluoromethane

Concen: 0.116 ppbv

RT: 3.93 min Scan# 356

Delta R.T. -0.02 min

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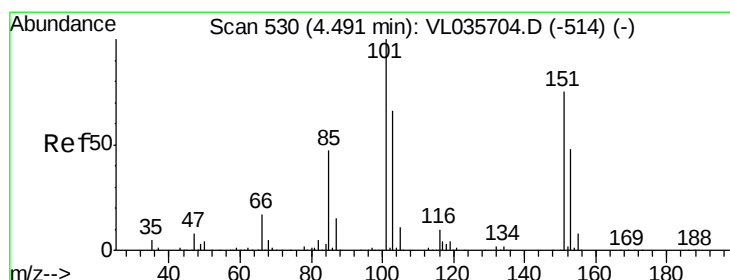
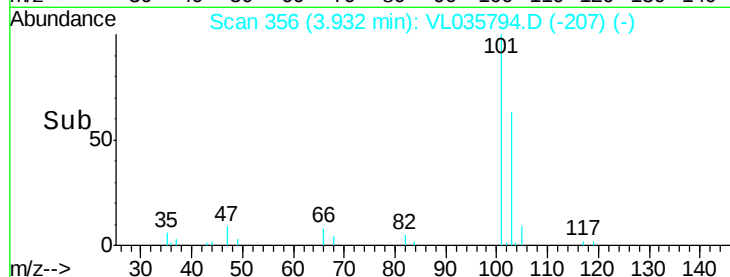
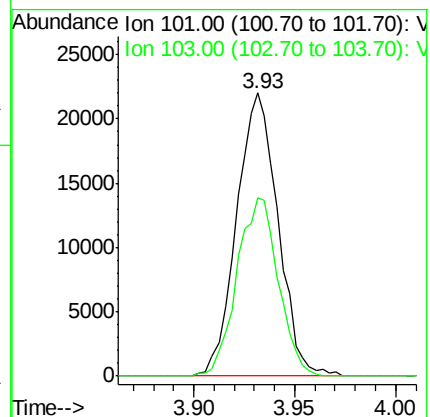
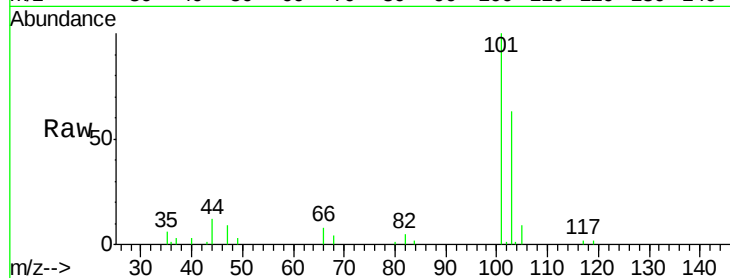
MDL-AIR-01-QT4-2020

Tot Ion:101 Resp: 31625

Ion Ratio Lower Upper

101 100

103 62.9 55.6 83.4



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.111 ppbv

RT: 4.47 min Scan# 522

Delta R.T. -0.03 min

Lab File: VL035794.D

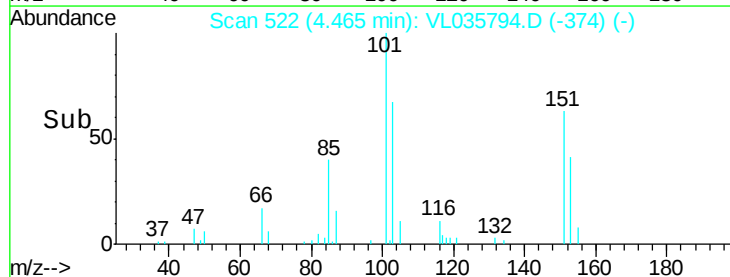
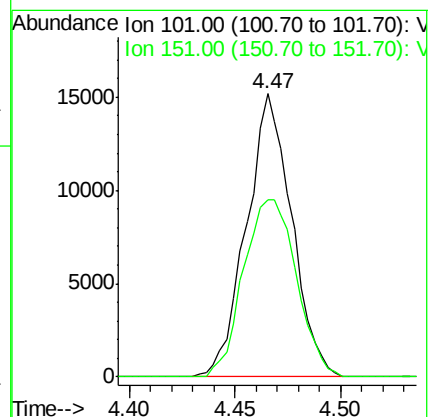
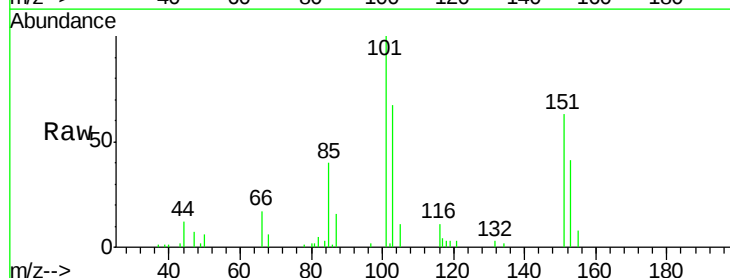
Acq: 19 Oct 2020 14:39

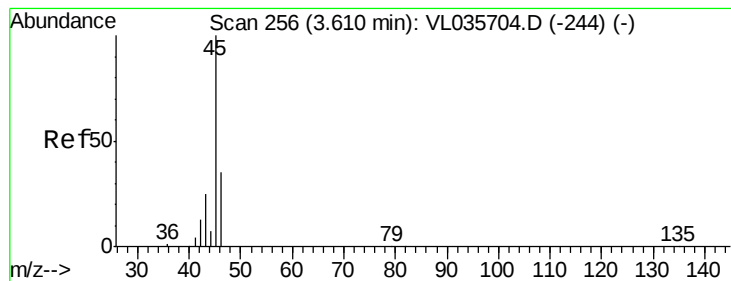
Tgt Ion:101 Resp: 22618

Ion Ratio Lower Upper

101 100

151 73.1 59.1 88.7





#13

Ethanol

Concen: 0.198 ppbv m

RT: 3.60 min Scan# 254

Delta R.T. -0.01 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

Instrument :

MSVOA_L

ClientSampleId :

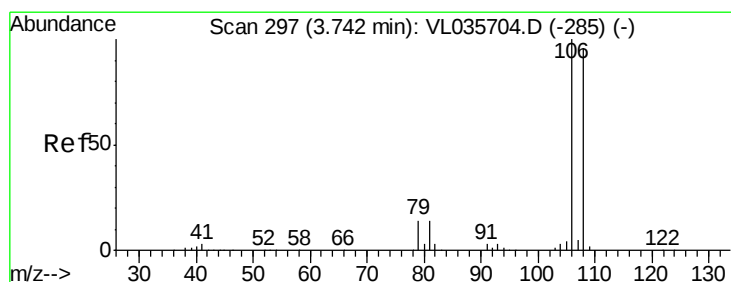
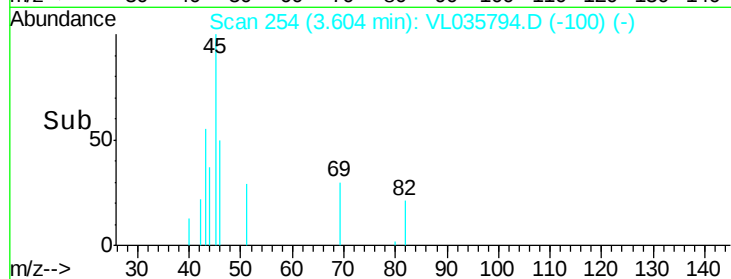
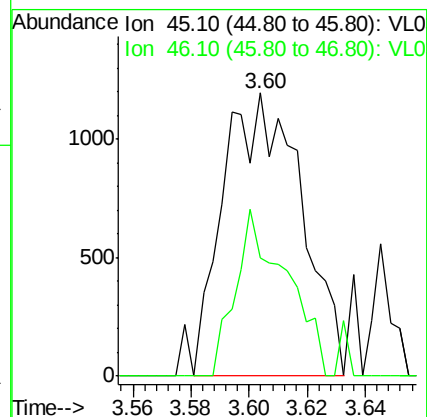
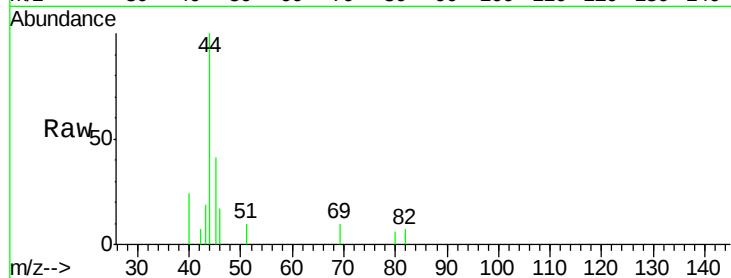
MDL-AIR-01-QT4-2020

Tot Ion: 45 Resp: 2220

Ion Ratio Lower Upper

45 100

46 0.0 14.7 58.7#



#14

Bromoethene

Concen: 0.102 ppbv

RT: 3.72 min Scan# 291

Delta R.T. -0.02 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

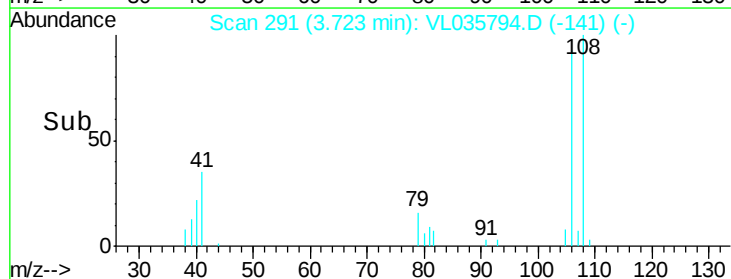
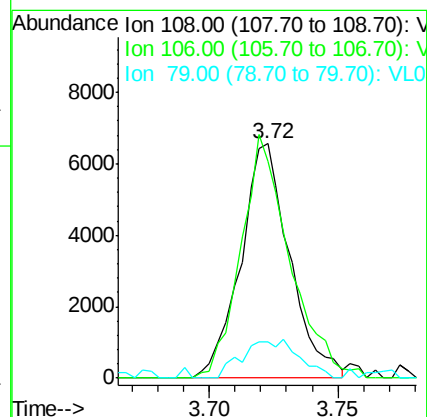
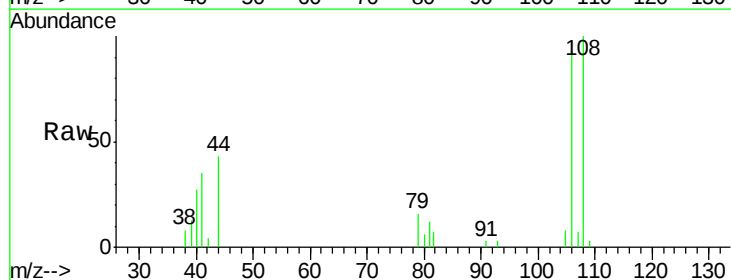
Tgt Ion: 108 Resp: 8750

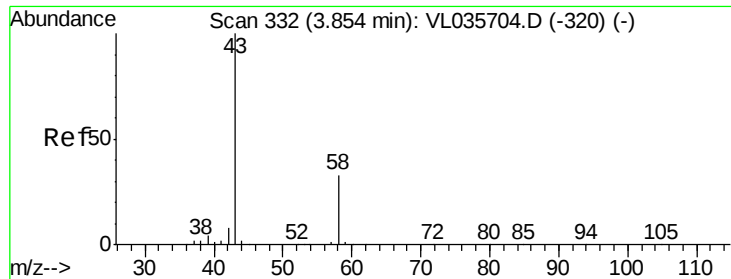
Ion Ratio Lower Upper

108 100

106 103.4 84.6 126.8

79 21.0 11.6 17.4#





#15

Acetone

Concen: 0.233 ppbv

RT: 3.85 min Scan# 330

Delta R.T. -0.01 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

Instrument :

MSVOA_L

ClientSampleId :

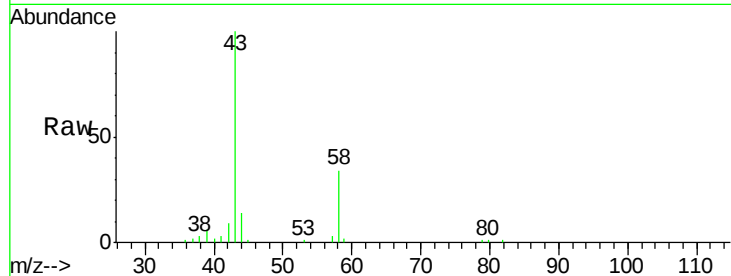
MDL-AIR-01-QT4-2020

Tot Ion: 43 Resp: 29219

Ion Ratio Lower Upper

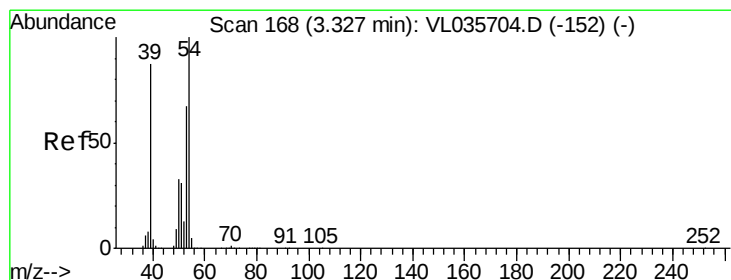
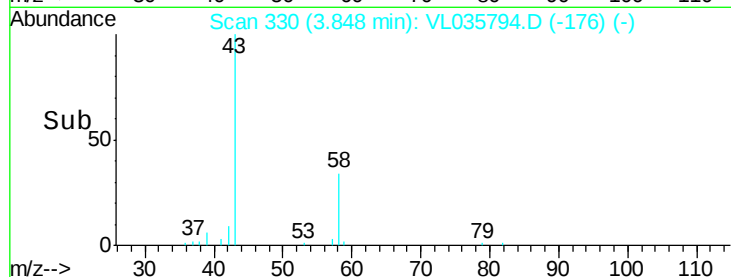
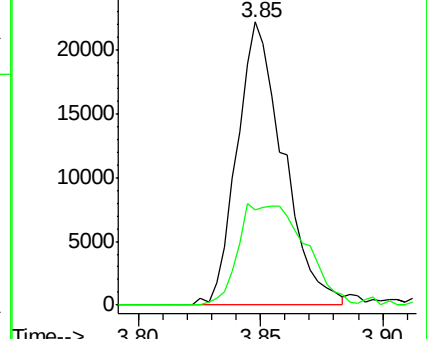
43 100

58 52.7 27.3 40.9#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.098 ppbv m

RT: 3.31 min Scan# 163

Delta R.T. -0.02 min

Lab File: VL035794.D

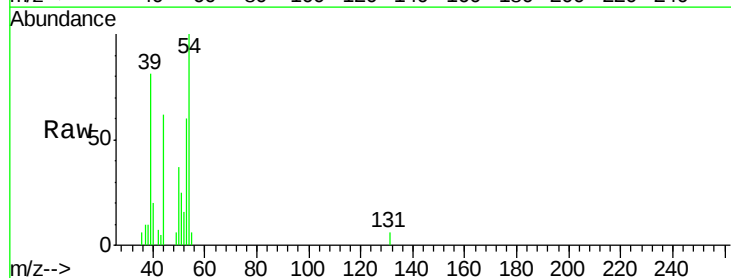
Acq: 19 Oct 2020 14:39

Tgt Ion: 39 Resp: 4492

Ion Ratio Lower Upper

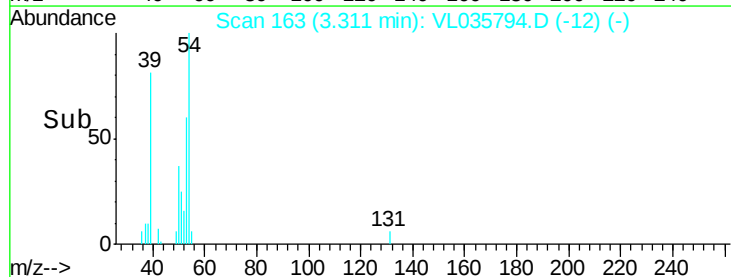
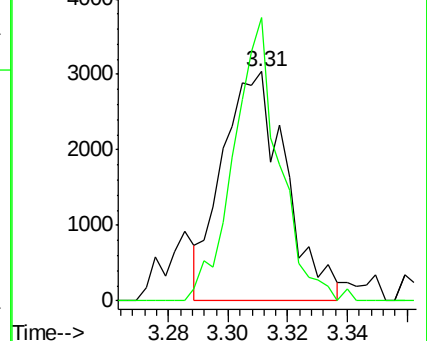
39 100

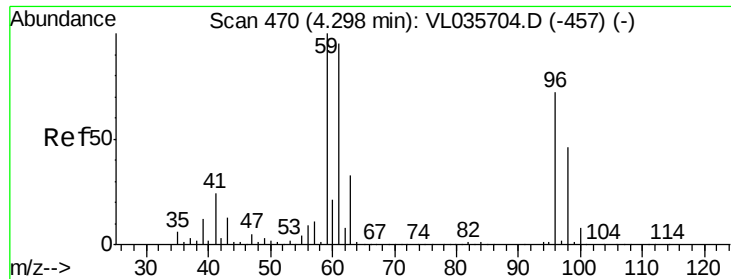
54 88.7 87.4 131.0



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 0.119 ppbv

RT: 4.31 min Scan# 473

Delta R.T. 0.01 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

Instrument :

MSVOA_L

ClientSampleId :

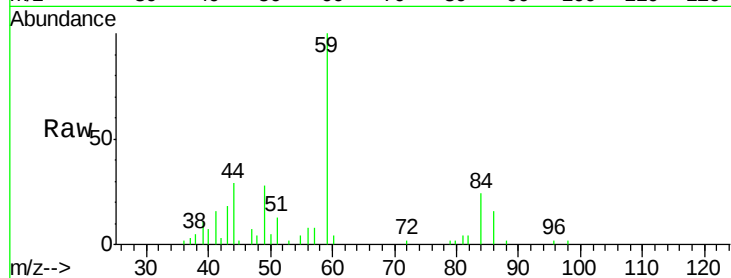
MDL-AIR-01-QT4-2020

Tot Ion: 59 Resp: 16229

Ion Ratio Lower Upper

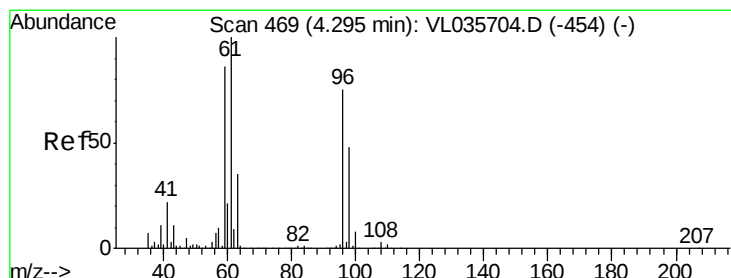
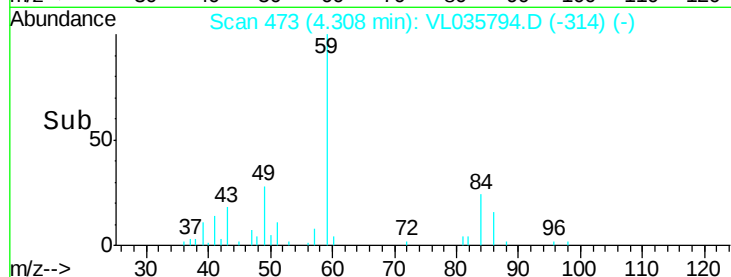
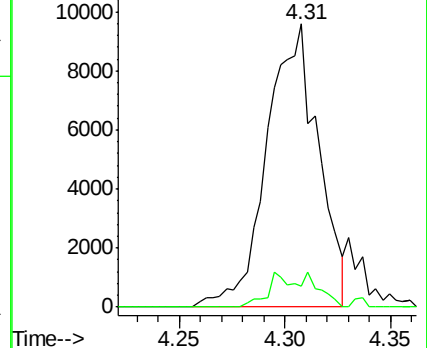
59 100

57 10.9 8.5 12.7



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 0.102 ppbv

RT: 4.27 min Scan# 462

Delta R.T. -0.02 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

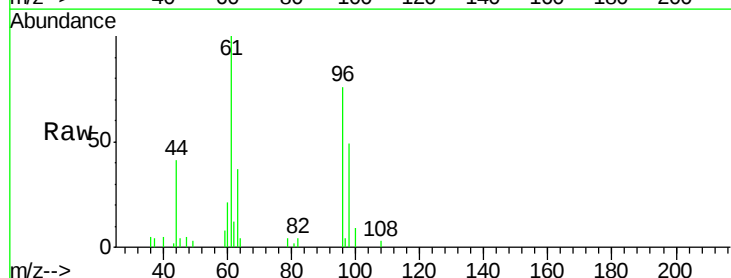
Tgt Ion: 96 Resp: 9098

Ion Ratio Lower Upper

96 100

61 131.4 106.7 160.1

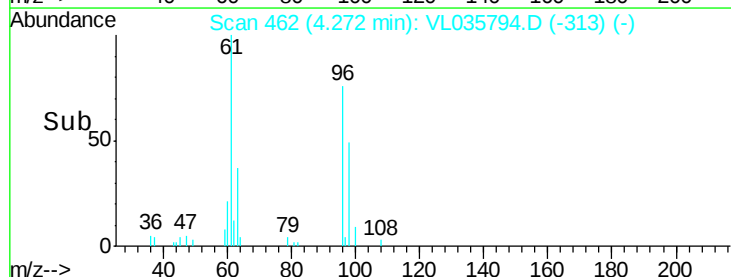
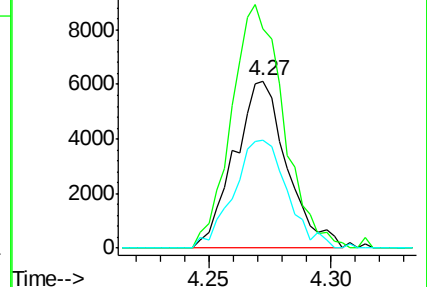
98 64.3 50.8 76.2

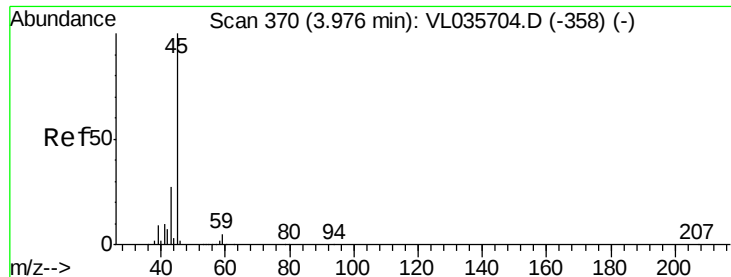


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 0.134 ppbv

RT: 3.97 min Scan# 369

Delta R.T. -0.00 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

Instrument :

MSVOA_L

ClientSampleId :

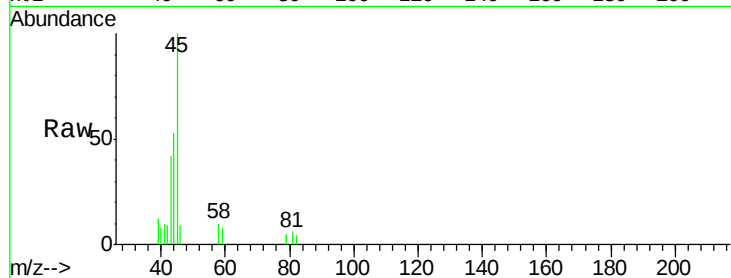
MDL-AIR-01-QT4-2020

Tot Ion: 45 Resp: 9145

Ion Ratio Lower Upper

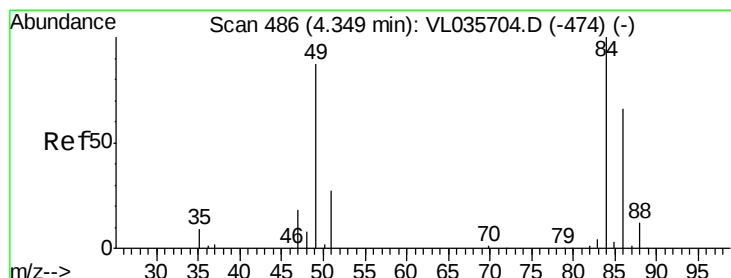
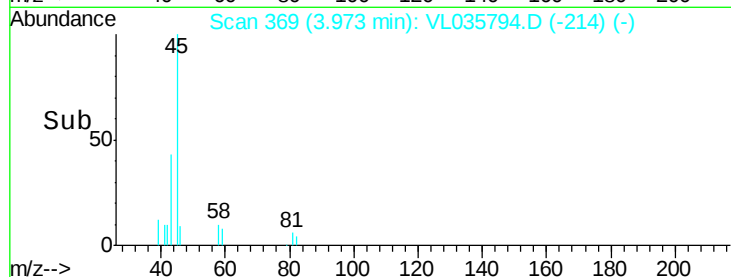
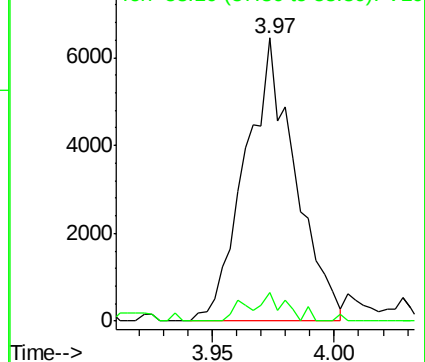
45 100

58 7.6 2.8 4.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.255 ppbv

RT: 4.32 min Scan# 478

Delta R.T. -0.03 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

Tgt Ion: 84 Resp: 23504

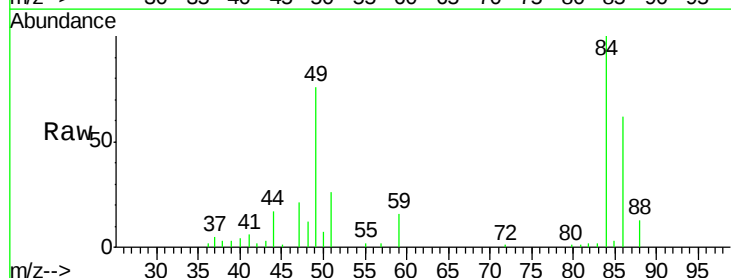
Ion Ratio Lower Upper

84 100

49 74.4 69.8 104.6

51 24.6 21.8 32.8

86 61.0 52.6 78.8

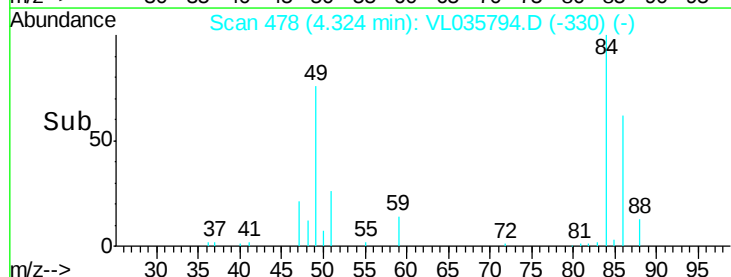
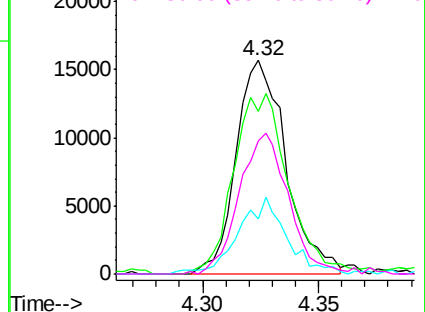


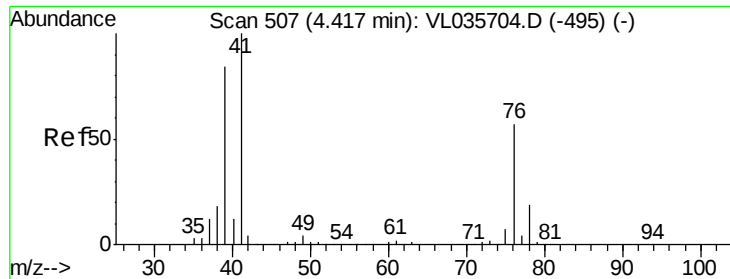
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

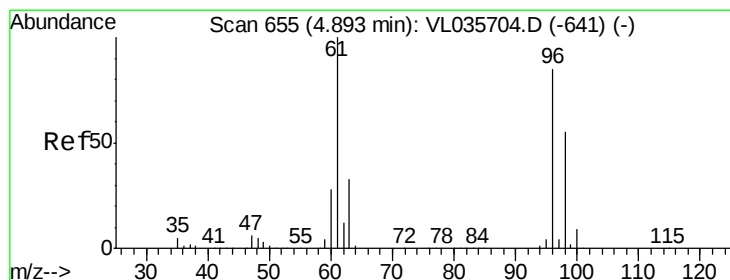
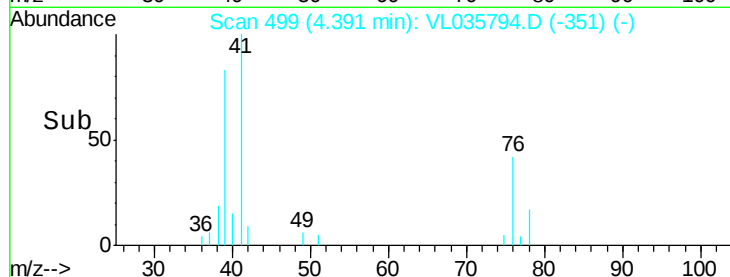
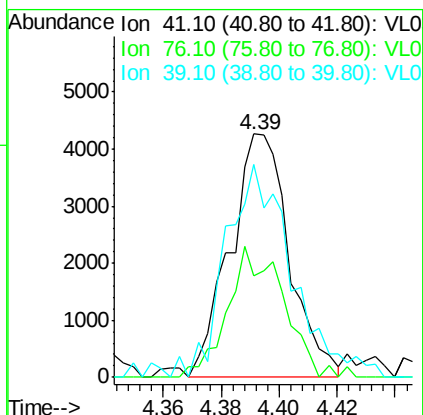
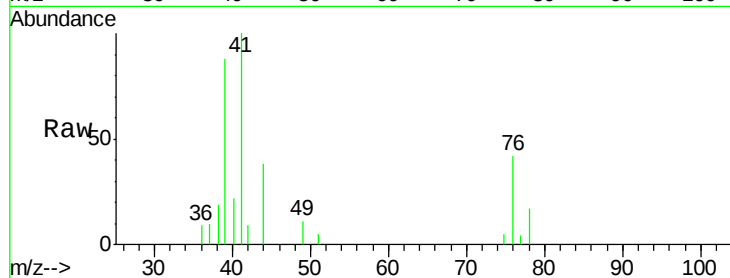




#21
Allvl Chloride
Concen: 0.100 ppbv
RT: 4.39 min Scan# 499
Delta R.T. -0.03 min
Lab File: VL035794.D
Acq: 19 Oct 2020 14:39

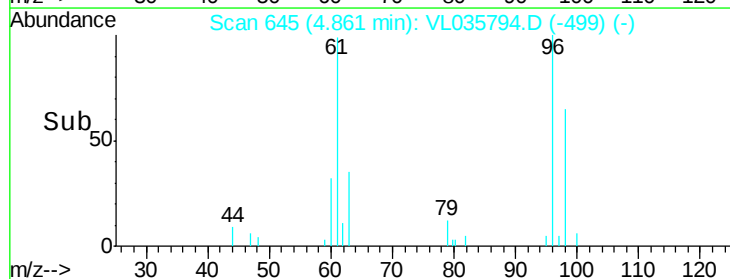
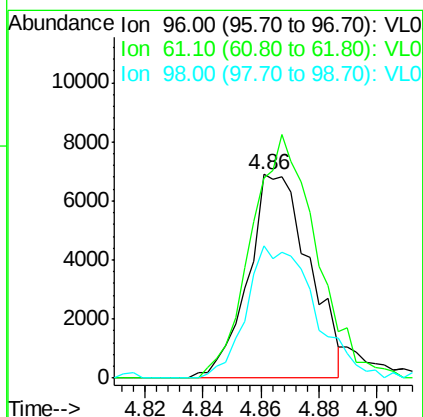
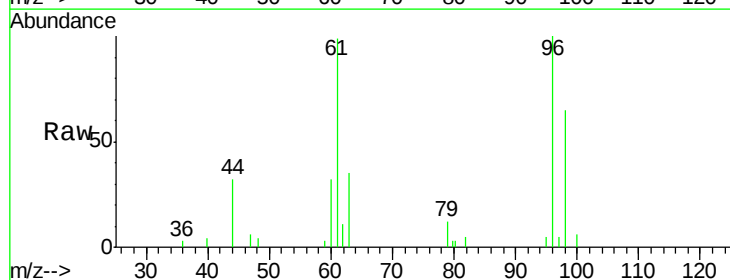
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT4-2020

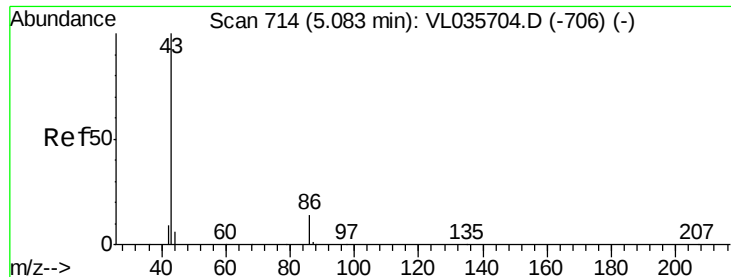
Tot Ion: 41 Resp: 6072
Ion Ratio Lower Upper
41 100
76 50.7 44.8 67.2
39 97.3 68.4 102.6



#22
trans-1,2-Dichloroethene
Concen: 0.107 ppbv
RT: 4.86 min Scan# 645
Delta R.T. -0.03 min
Lab File: VL035794.D
Acq: 19 Oct 2020 14:39

Tgt Ion: 96 Resp: 10067
Ion Ratio Lower Upper
96 100
61 98.6 93.7 140.5
98 65.0 51.2 76.8





#23

Vinyl Acetate

Concen: 0.085 ppbv

RT: 5.06 min Scan# 706

Delta R.T. -0.03 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

Tot Ion: 43 Resp: 13110

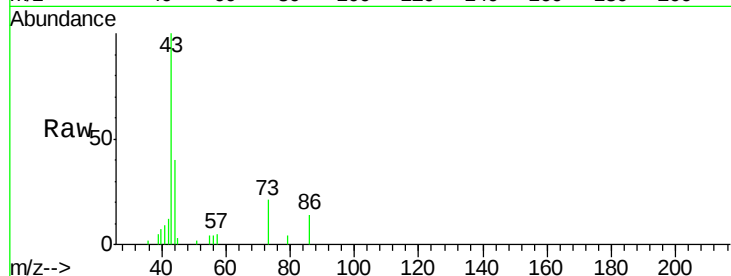
Ion Ratio Lower Upper

43 100

86 15.0 9.7 14.5#

42 13.1 7.9 11.9#

44 26.3 4.8 7.2#

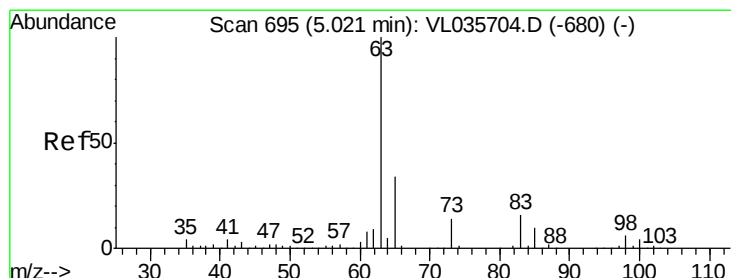
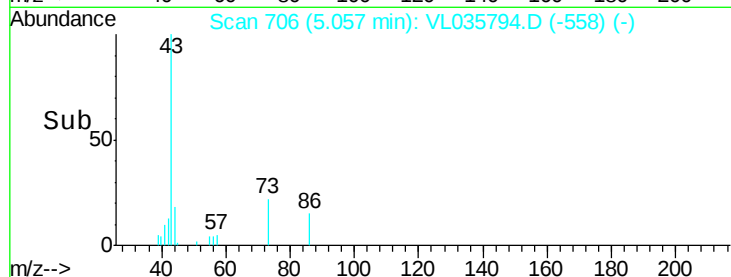
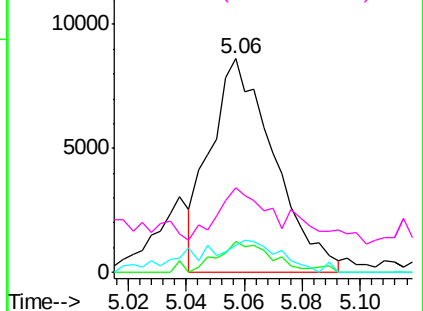


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 0.112 ppbv

RT: 4.99 min Scan# 685

Delta R.T. -0.03 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

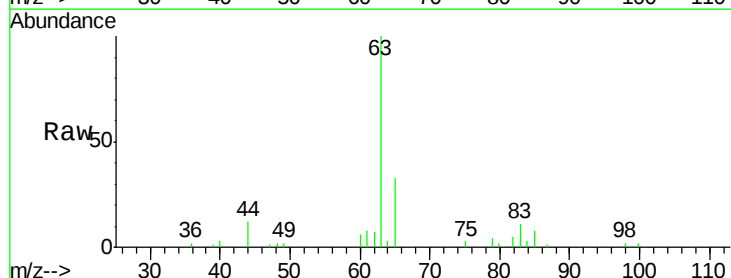
Tgt Ion: 63 Resp: 18719

Ion Ratio Lower Upper

63 100

98 2.3 3.3 9.8#

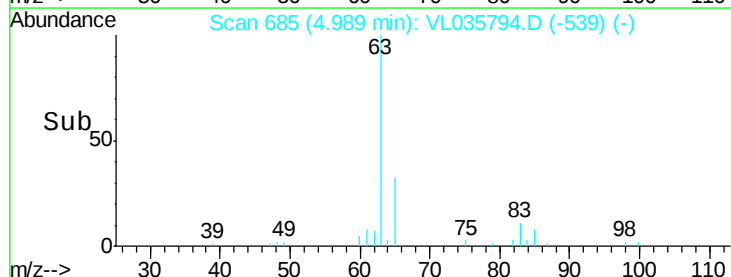
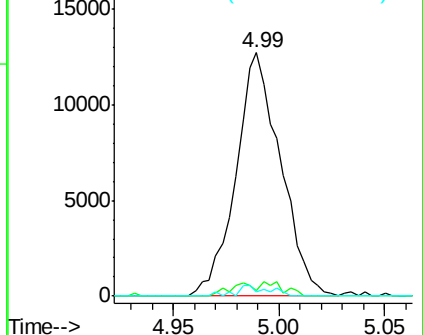
100 1.6 2.0 5.8#

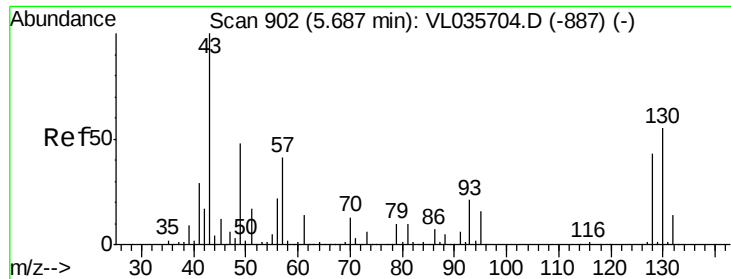


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 0.102 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.02 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

Tot Ion: 43 Resp: 23099

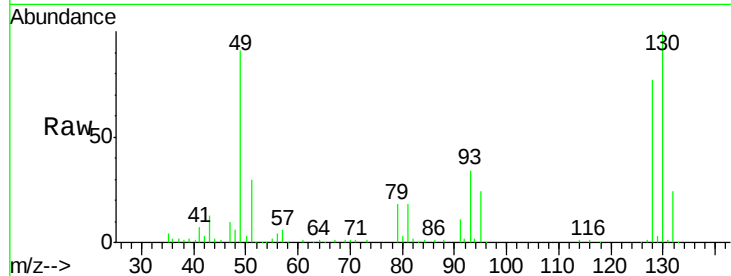
Ion Ratio Lower Upper

43 100

45 10.5 8.6 12.8

61 10.4 10.4 15.6#

70 8.4 8.9 13.3#

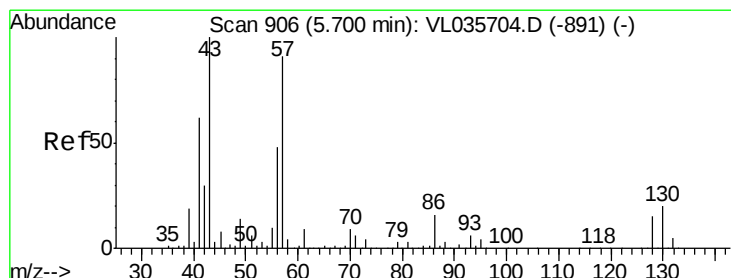
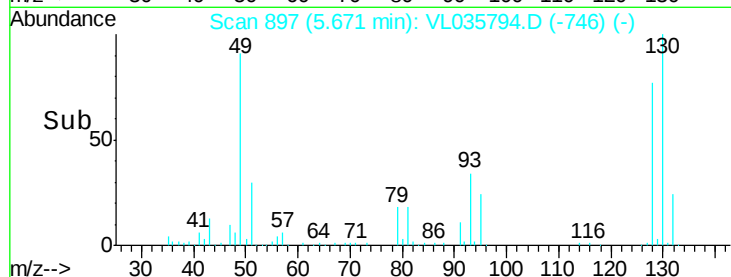
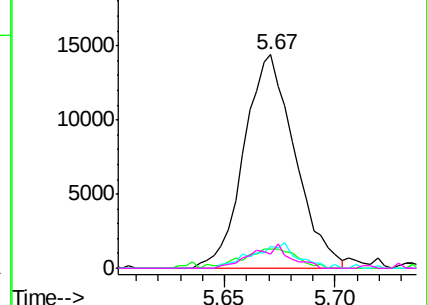


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.091 ppbv m

RT: 5.66 min Scan# 895

Delta R.T. -0.04 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

Tgt Ion: 57 Resp: 11268

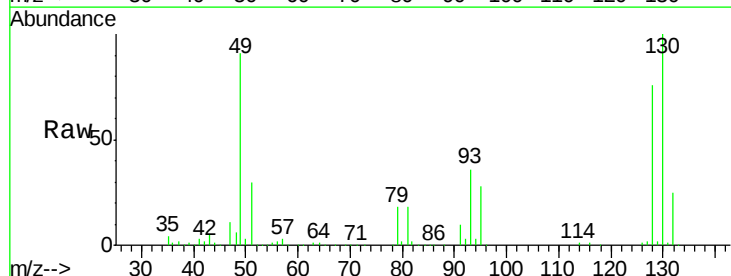
Ion Ratio Lower Upper

57 100

41 0.0 57.9 86.9#

43 0.0 143.8 215.6#

56 0.0 43.0 64.6#

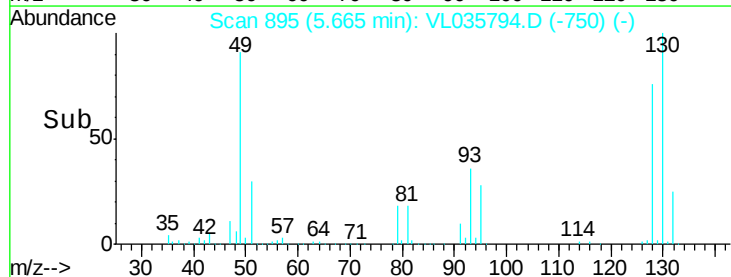
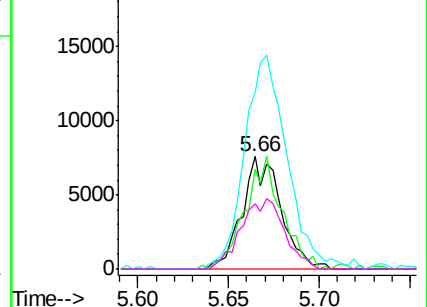


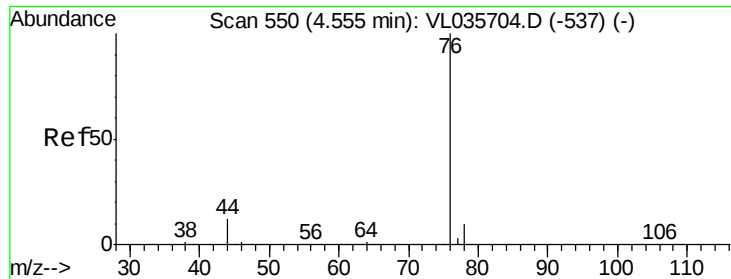
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

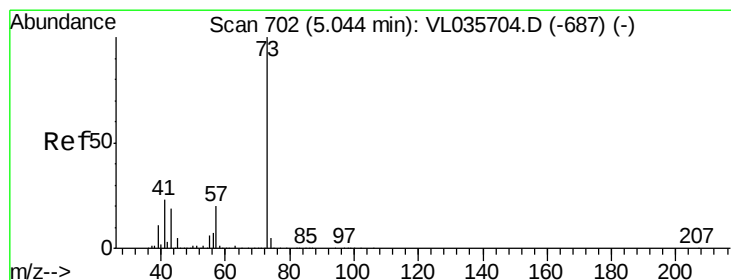
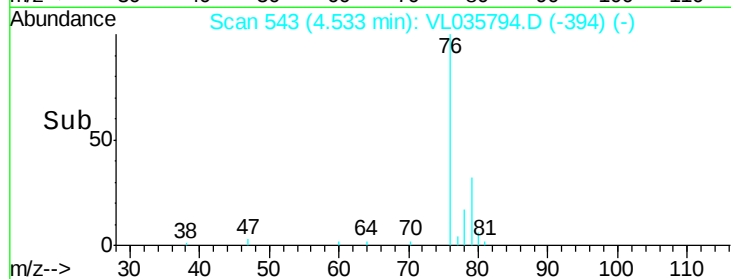
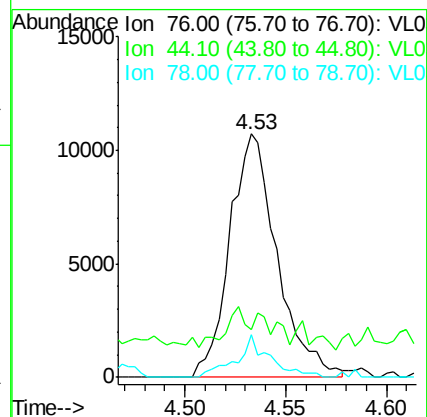
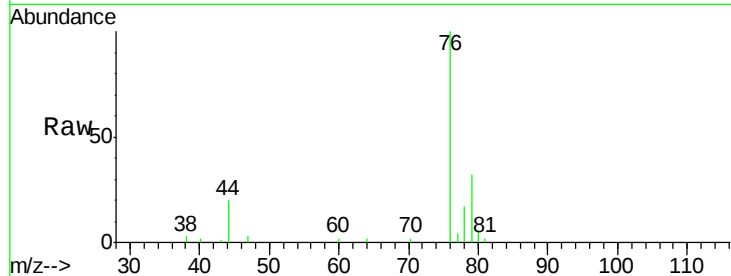




#27
Carbon Disulfide
Concen: 0.095 ppbv
RT: 4.53 min Scan# 543
Delta R.T. -0.02 min
Lab File: VL035794.D
Acq: 19 Oct 2020 14:39

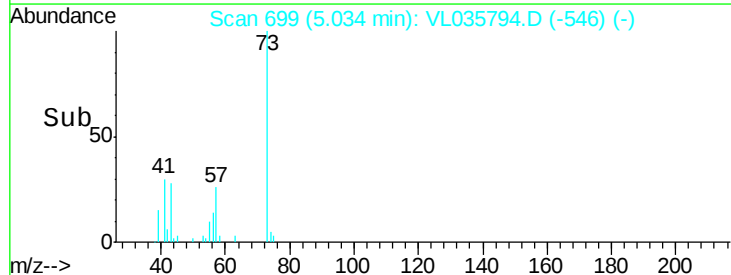
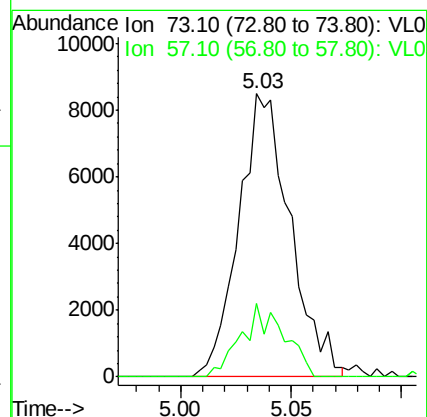
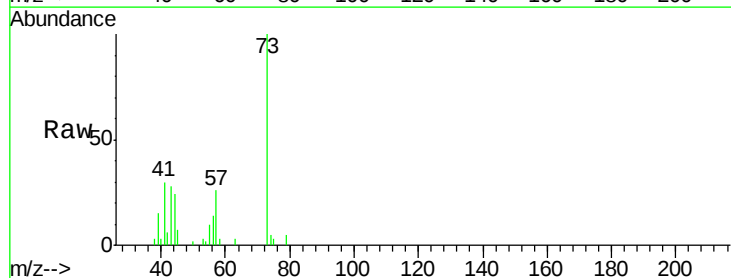
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT4-2020

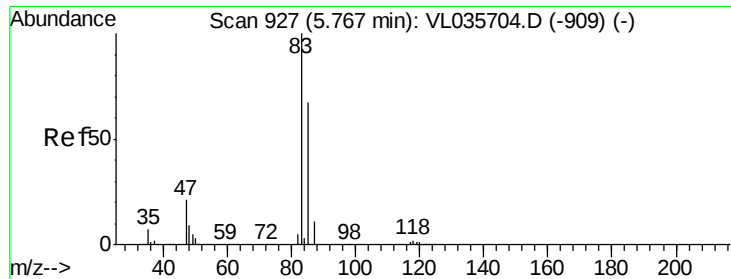
Tot Ion: 76 Resp: 17582
Ion Ratio Lower Upper
76 100
44 13.8 9.7 14.5
78 12.4 7.8 11.8#



#28
Methyl tert-Butyl Ether
Concen: 0.070 ppbv
RT: 5.03 min Scan# 699
Delta R.T. -0.01 min
Lab File: VL035794.D
Acq: 19 Oct 2020 14:39

Tgt Ion: 73 Resp: 13783
Ion Ratio Lower Upper
73 100
57 21.3 15.6 23.4

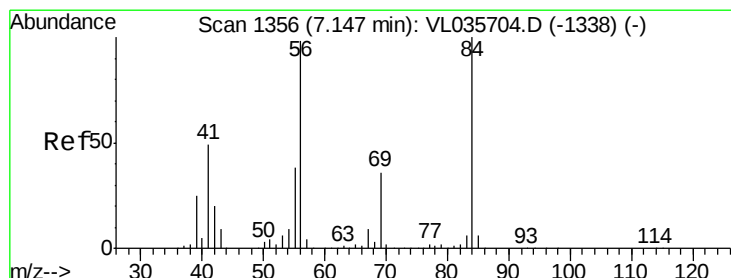
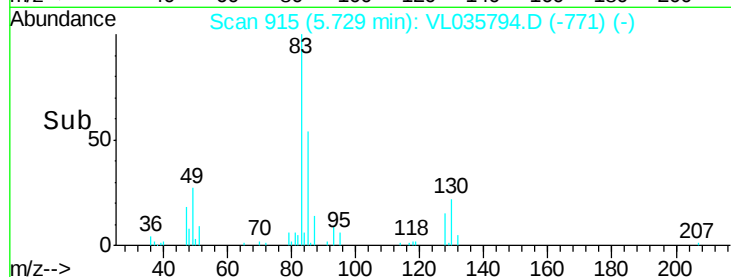
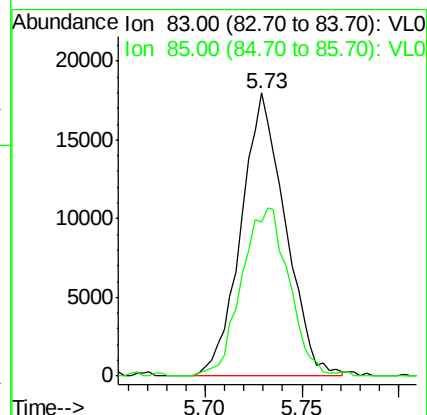
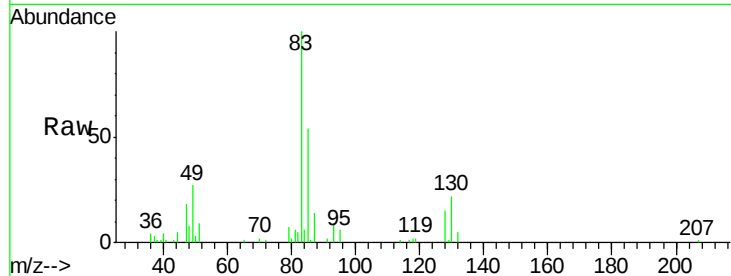




#29
Chloroform
Concen: 0.114 ppbv
RT: 5.73 min Scan# 915
Delta R.T. -0.04 min
Lab File: VL035794.D
Acq: 19 Oct 2020 14:39

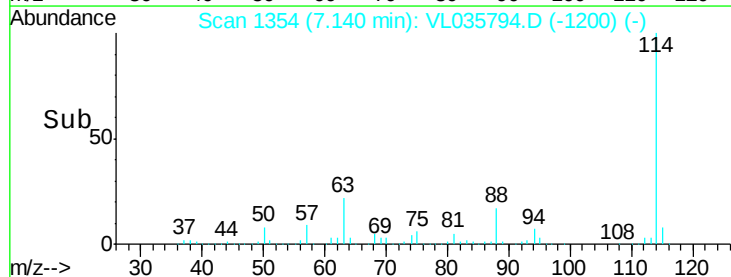
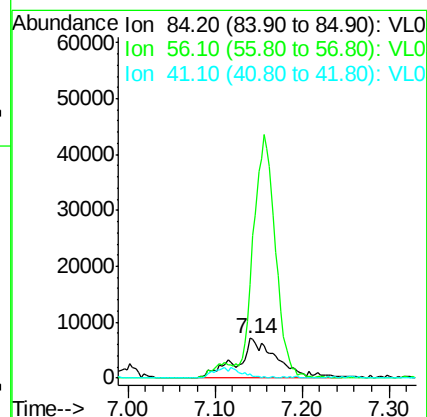
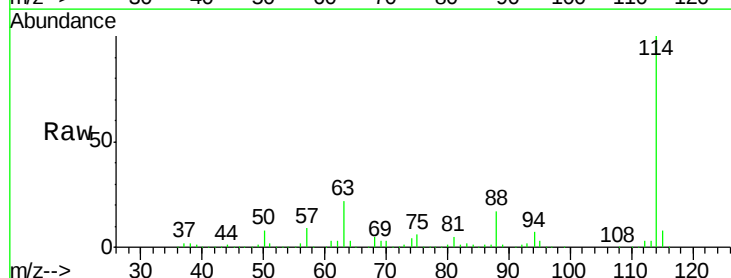
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT4-2020

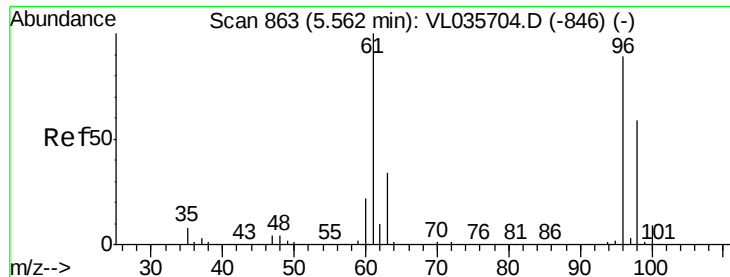
Tot Ion: 83 Resp: 28675
Ion Ratio Lower Upper
83 100
85 54.3 54.0 81.0



#30
Cyclohexane
Concen: 0.188 ppbv m
RT: 7.14 min Scan# 1354
Delta R.T. -0.01 min
Lab File: VL035794.D
Acq: 19 Oct 2020 14:39

Tgt Ion: 84 Resp: 22875
Ion Ratio Lower Upper
84 100
56 0.0 84.6 127.0#
41 0.0 41.1 61.7#



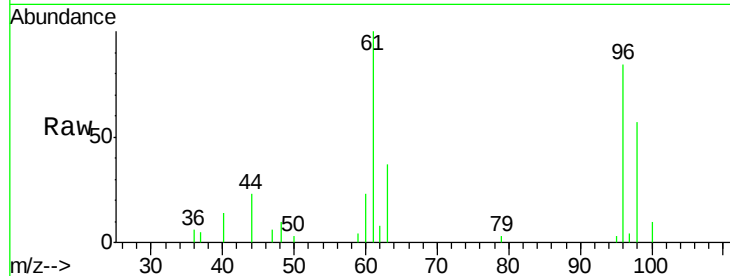


#31

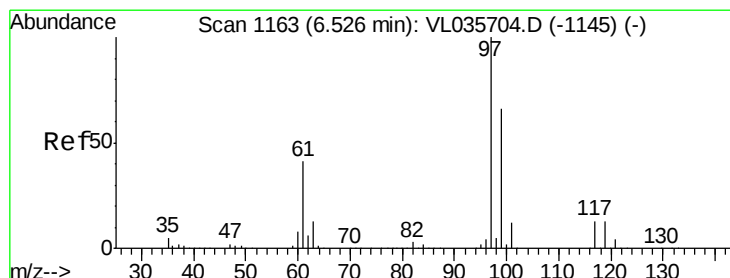
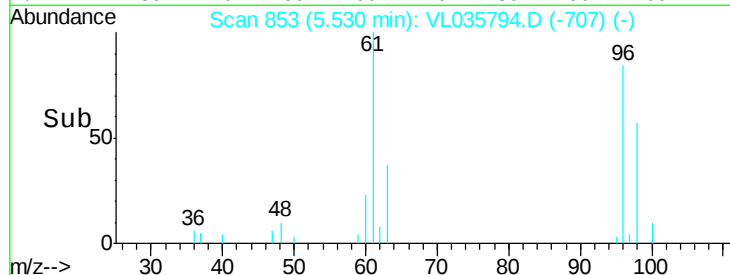
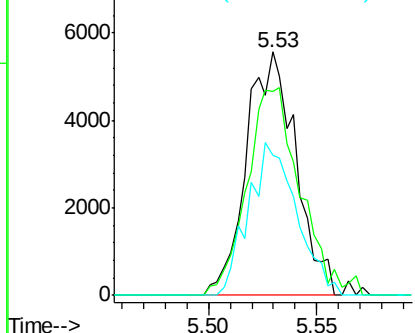
cis-1,2-Dichloroethene
Concen: 0.074 ppbv
RT: 5.53 min Scan# 853
Delta R.T. -0.03 min
Lab File: VL035794.D
Acq: 19 Oct 2020 14:39

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

Tot Ion: 61 Resp: 8841
Ion Ratio Lower Upper
61 100
96 83.8 71.4 107.2
98 57.5 47.4 71.2



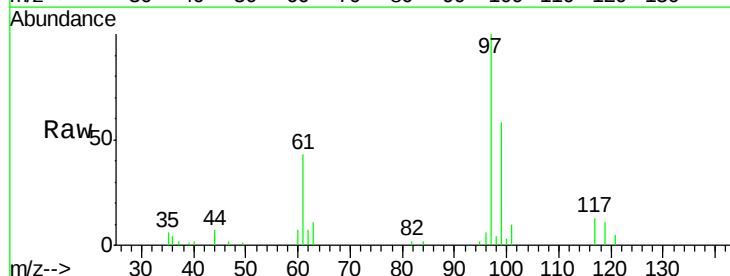
Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



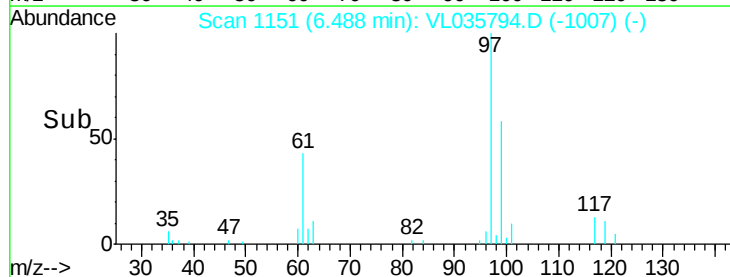
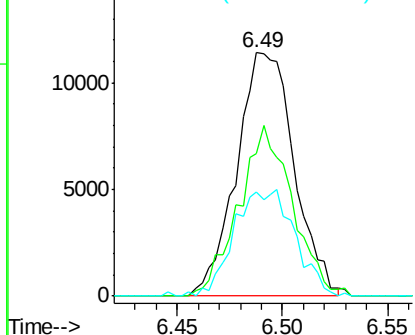
#32

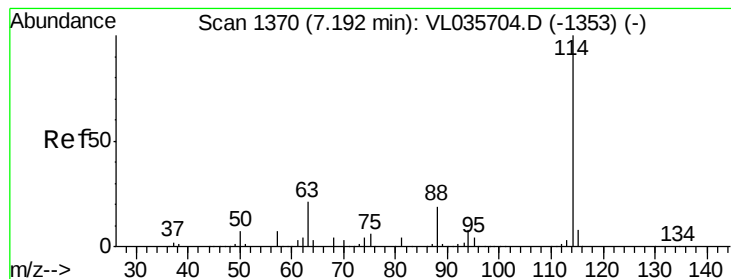
1,1,1-Trichloroethane
Concen: 0.098 ppbv
RT: 6.49 min Scan# 1151
Delta R.T. -0.04 min
Lab File: VL035794.D
Acq: 19 Oct 2020 14:39

Tgt Ion: 97 Resp: 21698
Ion Ratio Lower Upper
97 100
99 65.0 52.7 79.1
61 46.1 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: VL035794.D

Acq: 19 Oct 2020 14:39

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

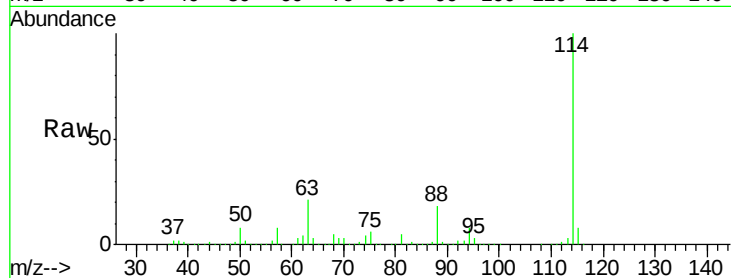
Tot Ion:114 Resp: 4191975

Ion Ratio Lower Upper

114 100

63 20.4 16.1 24.1

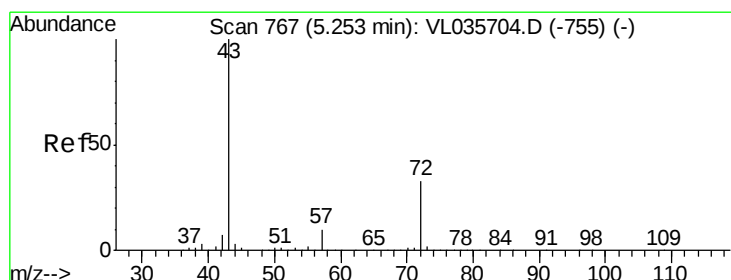
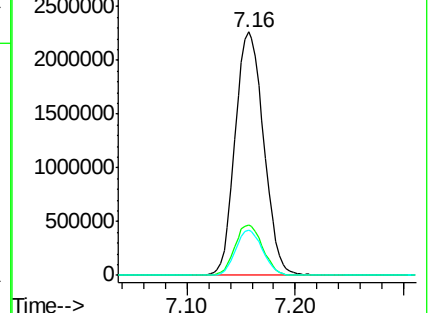
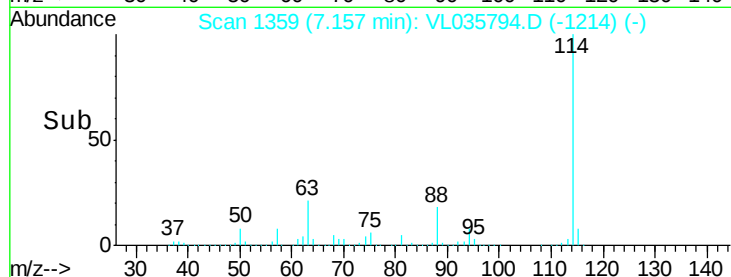
88 17.6 14.1 21.1



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: 0.100 ppbv

RT: 5.24 min Scan# 764

Delta R.T. -0.01 min

Lab File: VL035794.D

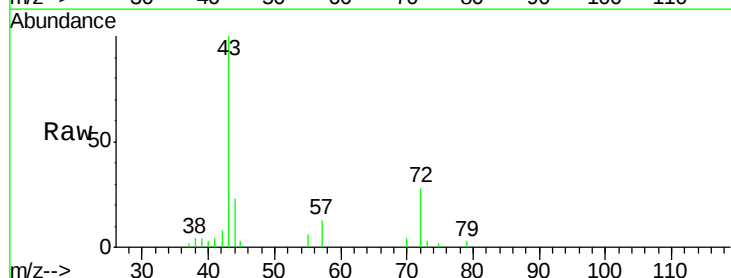
Acq: 19 Oct 2020 14:39

Tgt Ion: 43 Resp: 13865

Ion Ratio Lower Upper

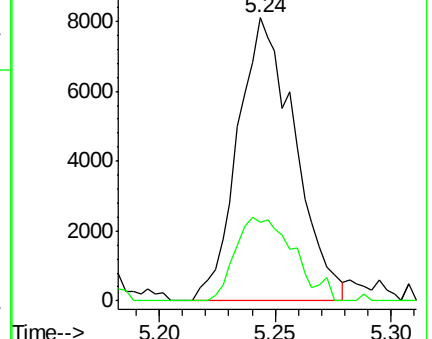
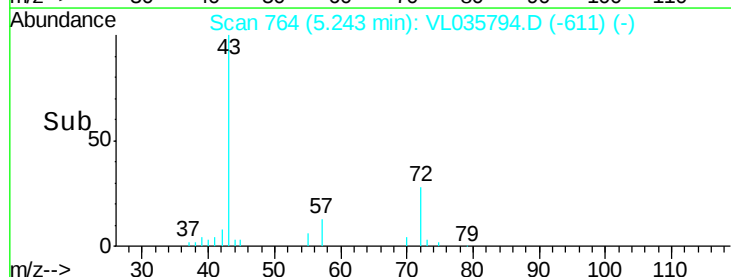
43 100

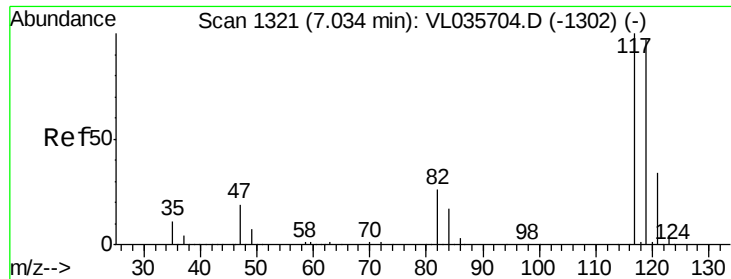
72 30.3 26.1 39.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

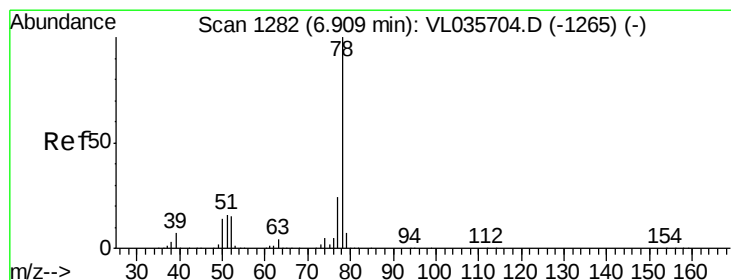
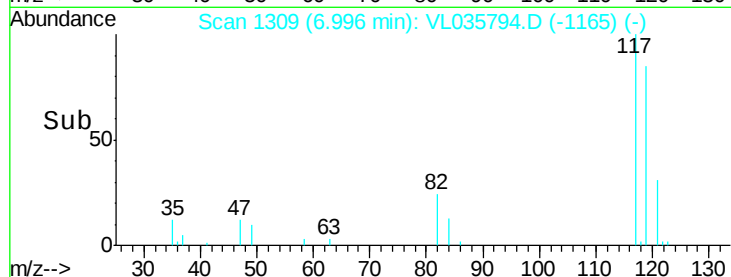
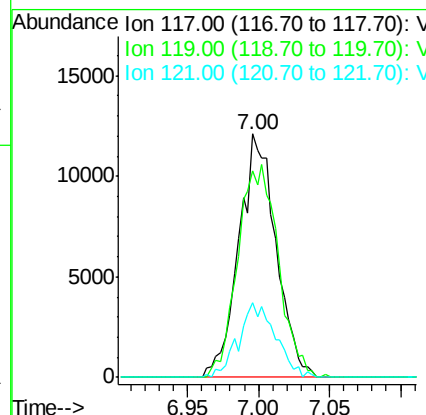
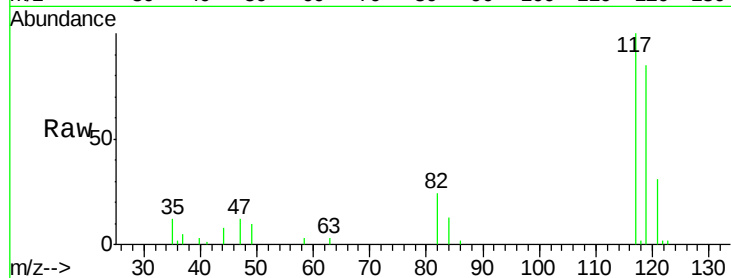




#35
Carbon Tetrachloride
Concen: 0.101 ppbv m
RT: 7.00 min Scan# 1309
Delta R.T. -0.04 min
Lab File: VL035794.D
Acq: 19 Oct 2020 14:39

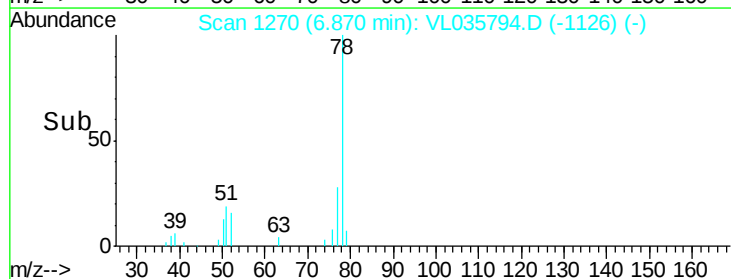
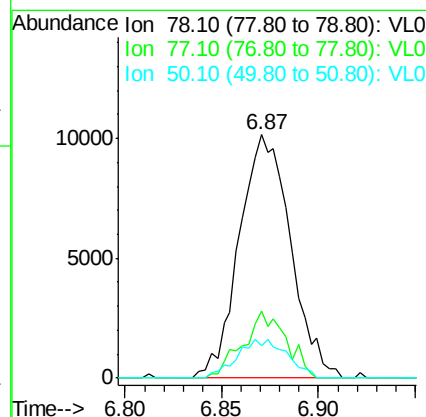
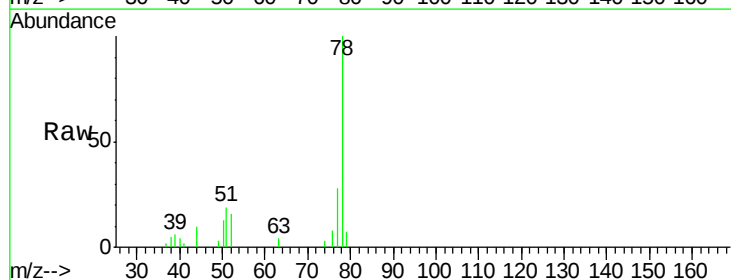
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT4-2020

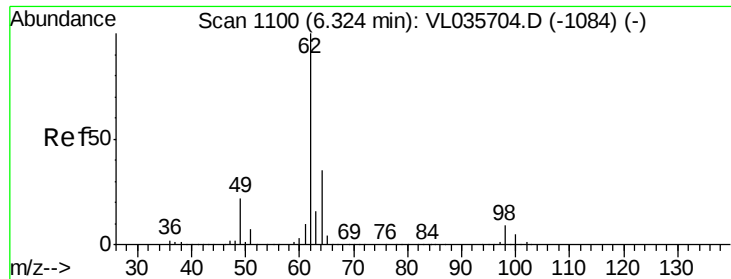
Tot Ion:117 Resp: 21991
Ion Ratio Lower Upper
117 100
119 84.6 77.7 116.5
121 30.7 26.9 40.3



#36
Benzene
Concen: 0.068 ppbv
RT: 6.87 min Scan# 1270
Delta R.T. -0.04 min
Lab File: VL035794.D
Acq: 19 Oct 2020 14:39

Tgt Ion: 78 Resp: 18706
Ion Ratio Lower Upper
78 100
77 27.6 19.3 28.9
50 13.3 11.6 17.4

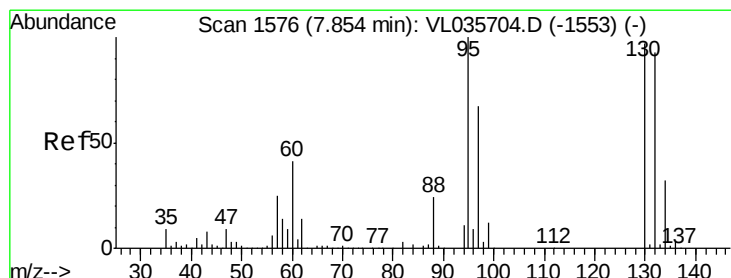
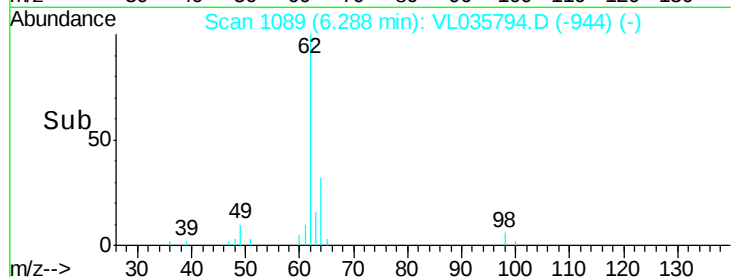
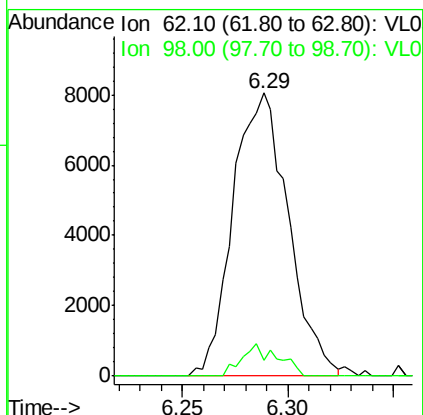
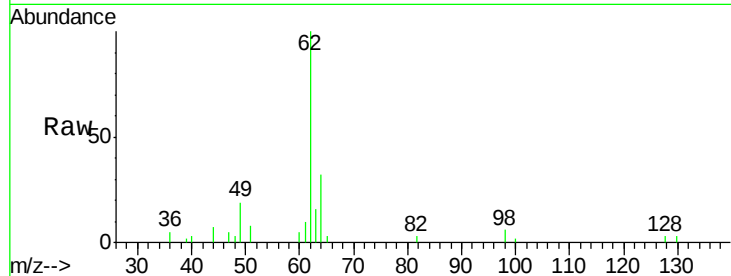




#37
 1,2-Dichloroethane
 Concen: 0.103 ppbv
 RT: 6.29 min Scan# 1089
 Delta R.T. -0.04 min
 Lab File: VL035794.D
 Acq: 19 Oct 2020 14:39

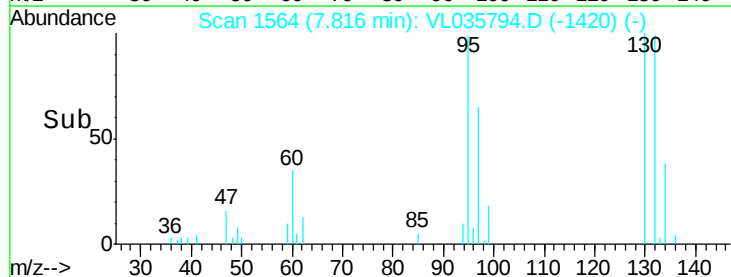
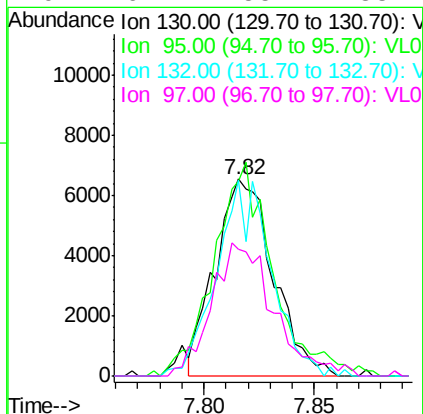
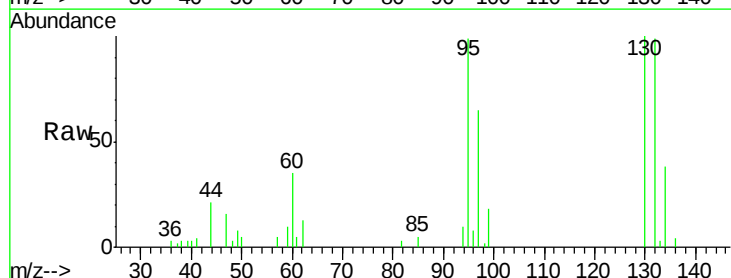
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT4-2020

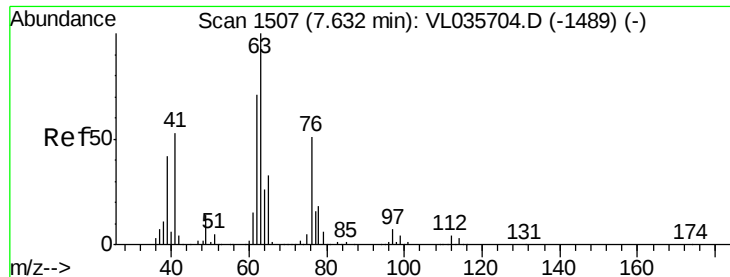
Tot Ion: 62 Resp: 14626
 Ion Ratio Lower Upper
 62 100
 98 7.4 6.9 10.3



#38
 Trichloroethene
 Concen: 0.088 ppbv
 RT: 7.82 min Scan# 1564
 Delta R.T. -0.04 min
 Lab File: VL035794.D
 Acq: 19 Oct 2020 14:39

Tgt Ion: 130 Resp: 11968
 Ion Ratio Lower Upper
 130 100
 95 92.4 82.4 123.6
 132 99.2 76.8 115.2
 97 62.1 55.4 83.2





#39

1,2-Dichloropropane

Concen: 0.113 ppbv m

RT: 7.59 min Scan# 1494

Delta R.T. -0.04 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

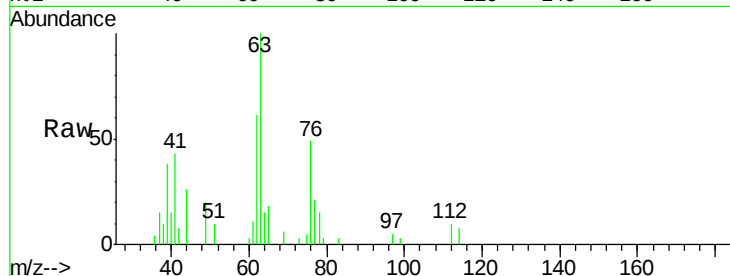
Tot Ion: 63 Resp: 11140

Ion Ratio Lower Upper

63 100

41 43.0 42.6 63.8

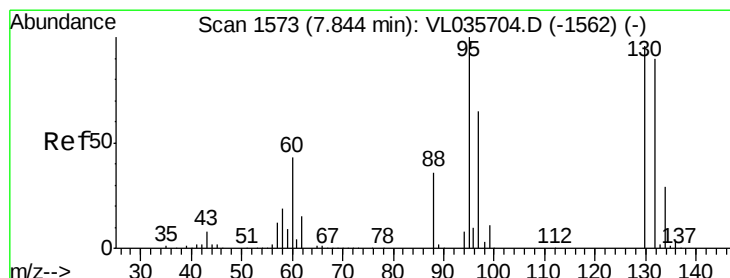
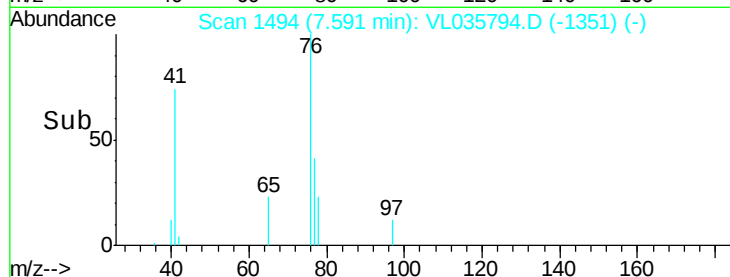
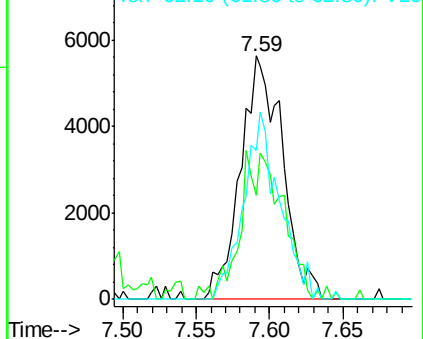
62 61.0 56.5 84.7



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



#40

1,4-Dioxane

Concen: 0.070 ppbv m

RT: 7.88 min Scan# 1583

Delta R.T. 0.03 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

Tgt Ion: 88 Resp: 3177

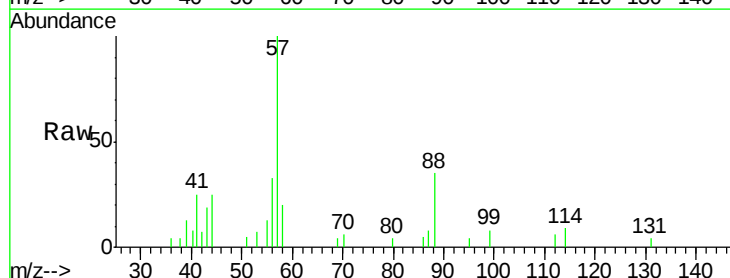
Ion Ratio Lower Upper

88 100

58 0.0 76.2 114.4#

43 0.0 123.4 185.2#

57 748.2 652.5 978.7

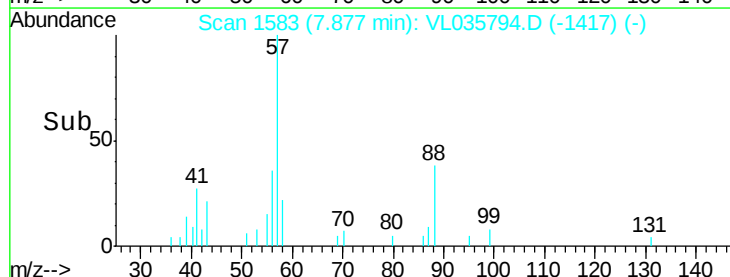
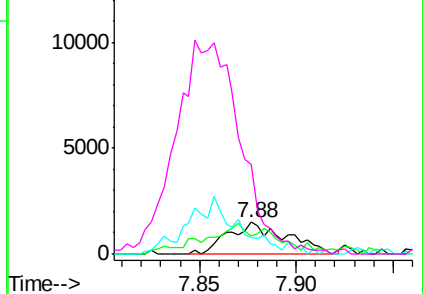


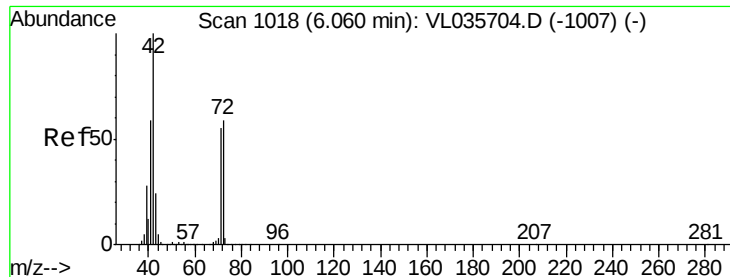
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 0.054 ppbv

RT: 6.07 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

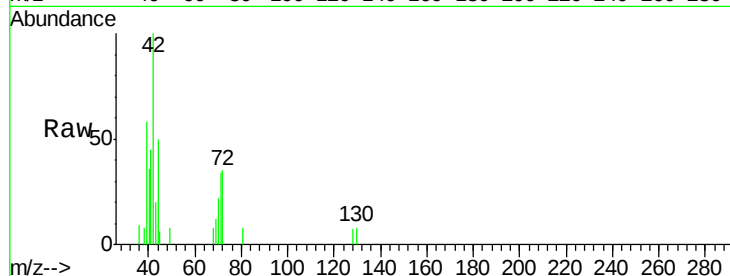
Tot Ion: 42 Resp: 3739

Ion Ratio Lower Upper

42 100

72 57.8 46.2 69.4

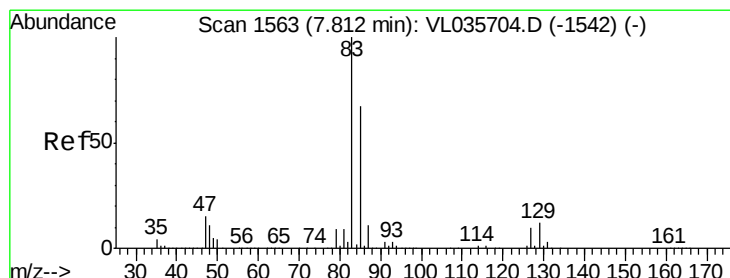
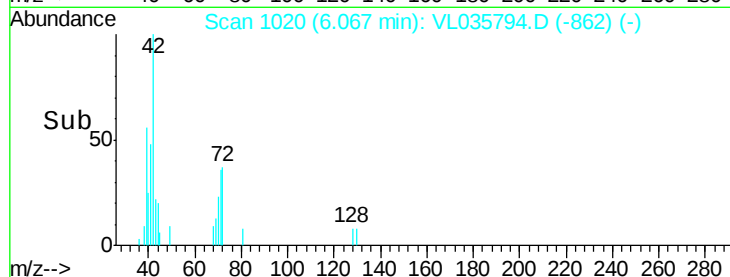
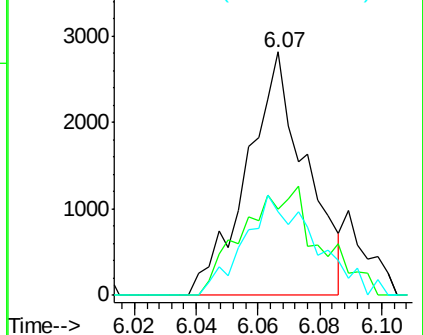
71 49.5 44.2 66.4



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 0.095 ppbv

RT: 7.77 min Scan# 1551

Delta R.T. -0.04 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

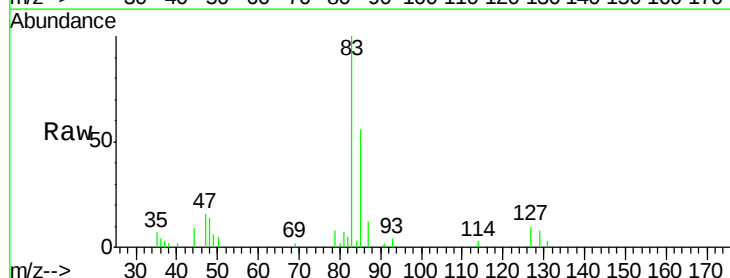
Tgt Ion: 83 Resp: 21742

Ion Ratio Lower Upper

83 100

85 54.4 53.4 80.0

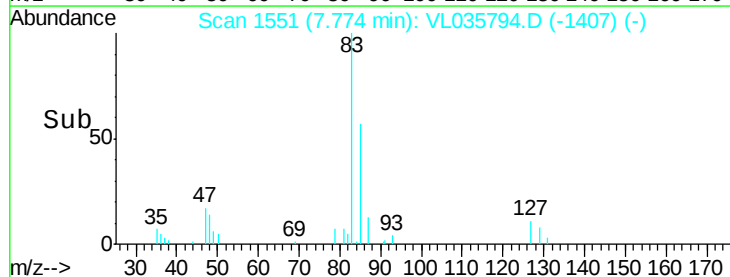
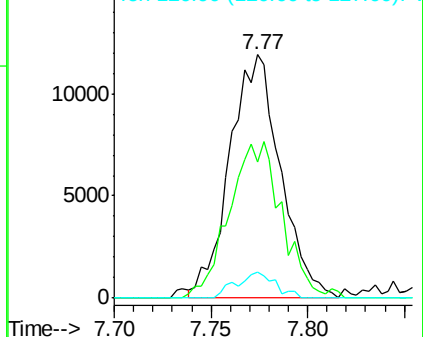
127 10.5 7.8 11.6

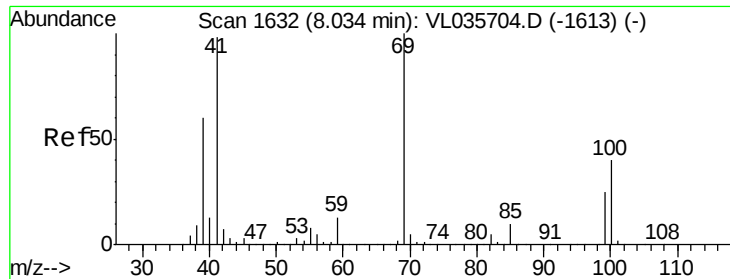


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

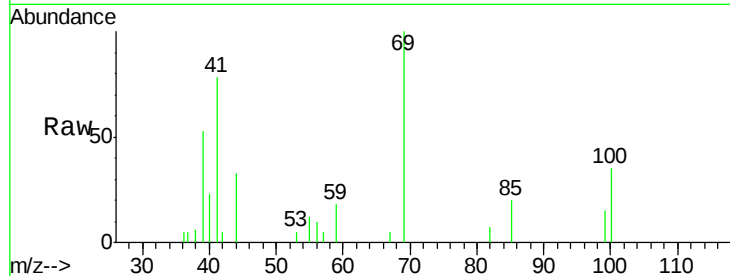




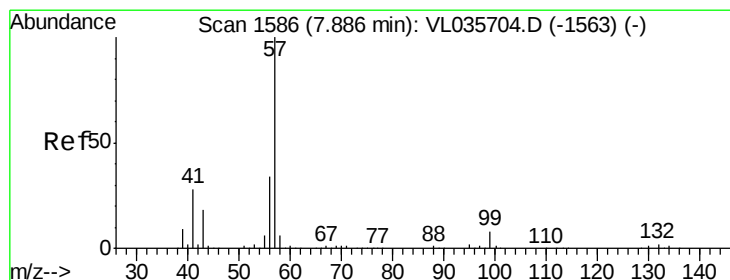
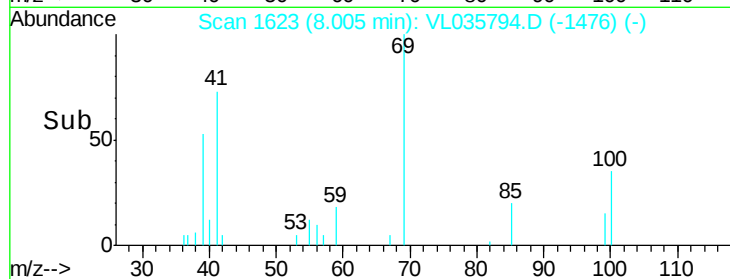
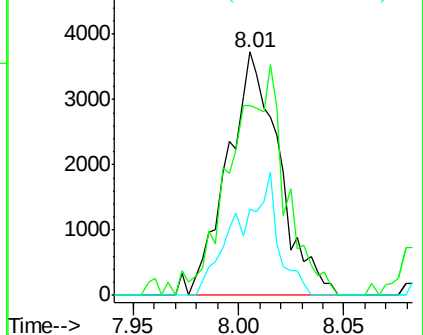
#43
Methyl Methacrylate
Concen: 0.058 ppbv
RT: 8.01 min Scan# 1623
Delta R.T. -0.03 min
Lab File: VL035794.D
Acq: 19 Oct 2020 14:39

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

Tot Ion: 69 Resp: 6342
Ion Ratio Lower Upper
69 100
41 101.3 79.8 119.6
100 40.2 30.6 46.0

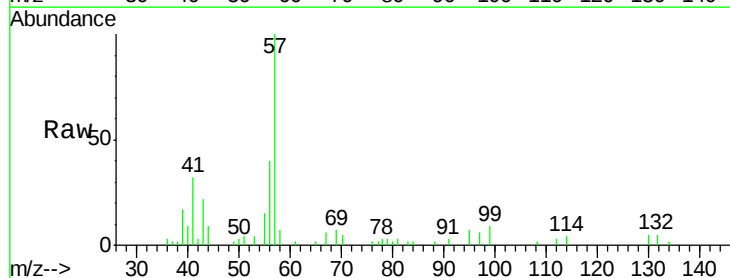


Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0

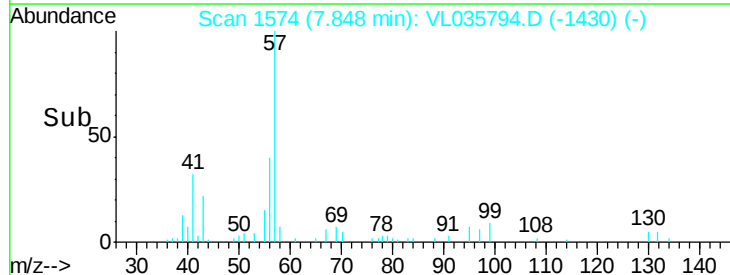
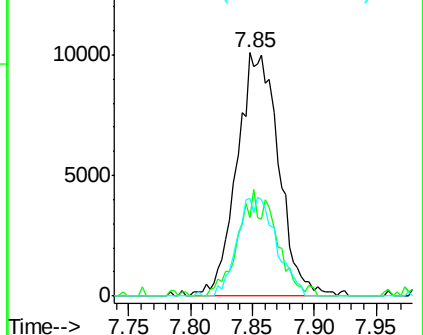


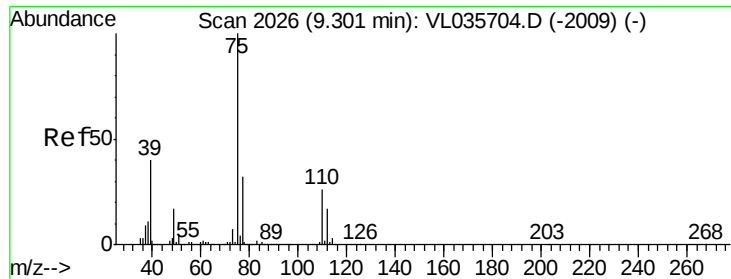
#44
2,2,4-Trimethylpentane
Concen: 0.060 ppbv m
RT: 7.85 min Scan# 1574
Delta R.T. -0.04 min
Lab File: VL035794.D
Acq: 19 Oct 2020 14:39

Tgt Ion: 57 Resp: 23648
Ion Ratio Lower Upper
57 100
41 0.0 21.2 31.8#
56 0.0 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





#45

t-1,3-Dichloropropene

Concen: 0.055 ppbv

RT: 9.26 min Scan# 2014

Delta R.T. -0.04 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

Instrument :

MSVOA_L

ClientSampleId :

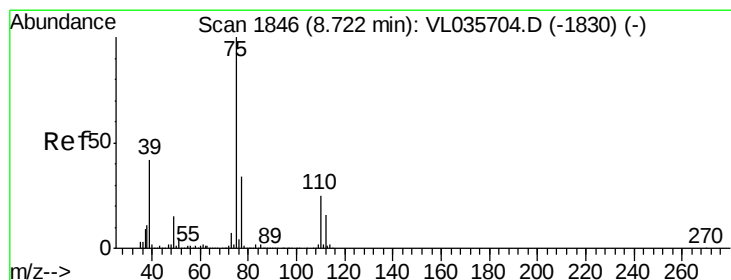
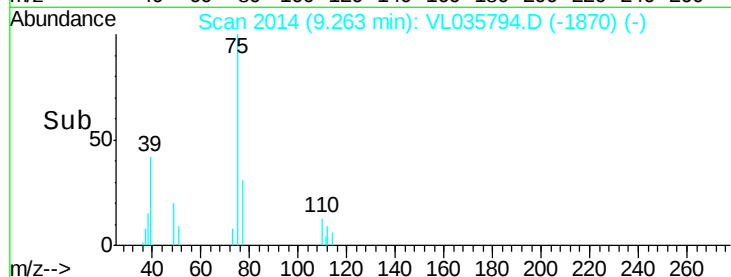
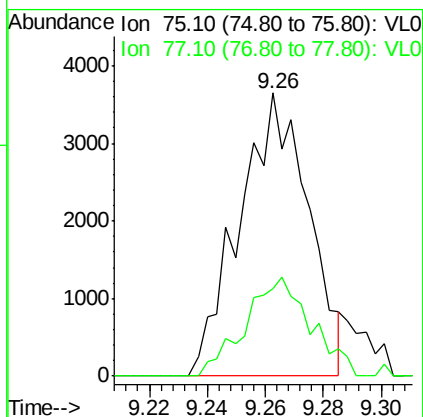
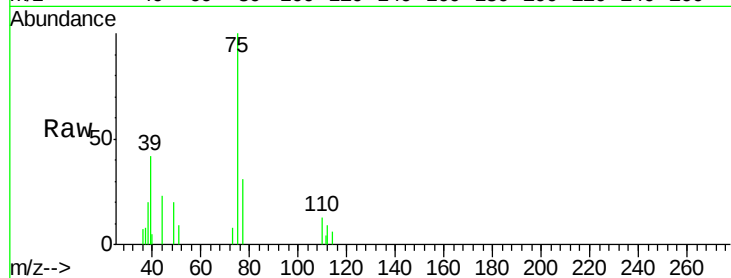
MDL-AIR-01-QT4-2020

Tot Ion: 75 Resp: 6015

Ion Ratio Lower Upper

75 100

77 30.7 25.9 38.9



#46

cis-1,3-Dichloropropene

Concen: 0.065 ppbv m

RT: 8.69 min Scan# 1836

Delta R.T. -0.03 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

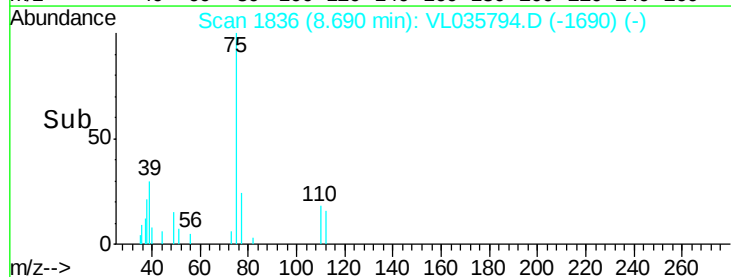
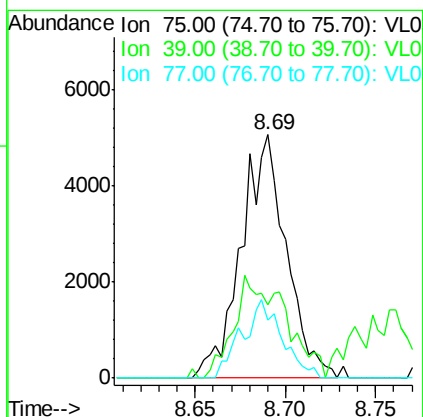
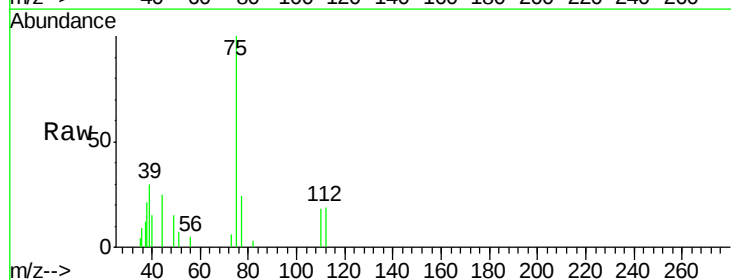
Tgt Ion: 75 Resp: 8748

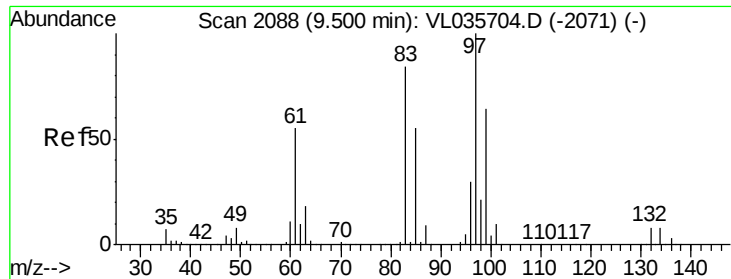
Ion Ratio Lower Upper

75 100

39 30.2 33.9 50.9#

77 23.9 27.4 41.0#

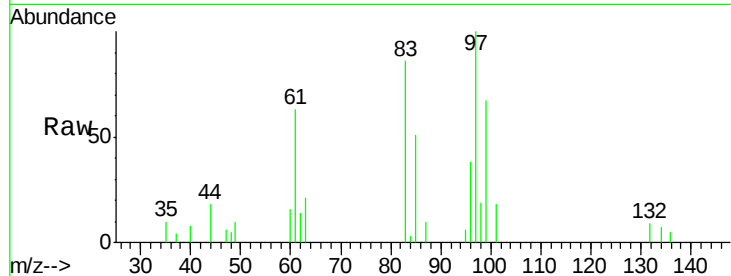




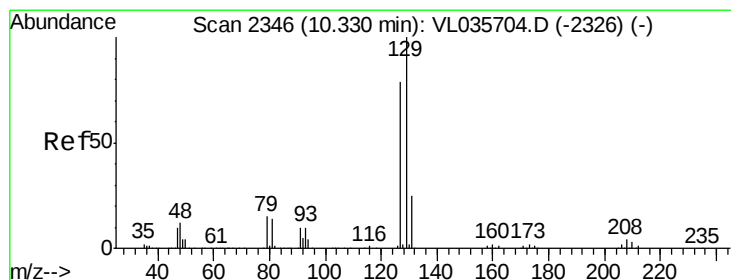
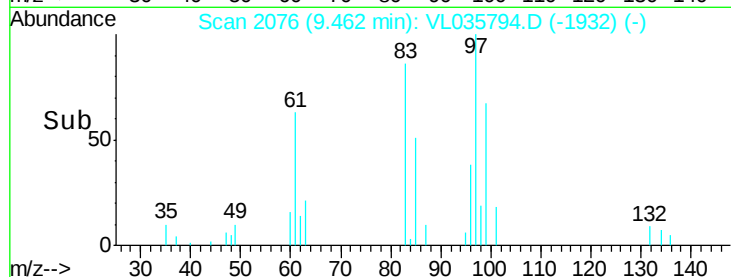
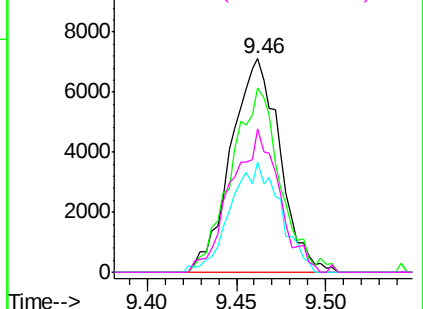
#47
 1,1,2-Trichloroethane
 Concen: 0.096 ppbv
 RT: 9.46 min Scan# 2076
 Delta R.T. -0.04 min
 Lab File: VL035794.D
 Acq: 19 Oct 2020 14:39

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

Tot Ion: 97 Resp: 13589
 Ion Ratio Lower Upper
 97 100
 83 86.1 67.1 100.7
 85 51.3 43.9 65.9
 99 66.9 51.3 76.9

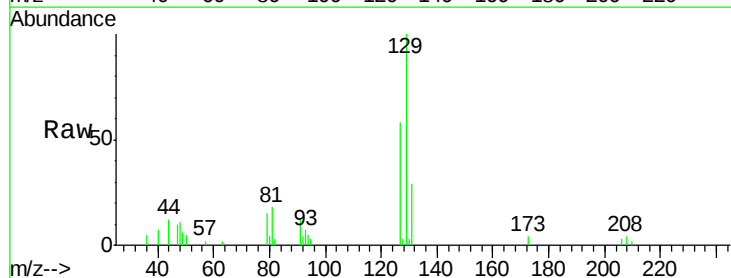


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

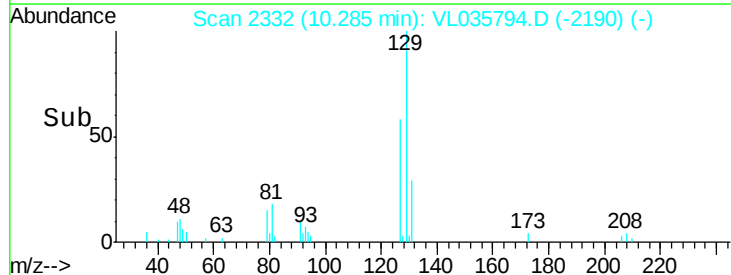
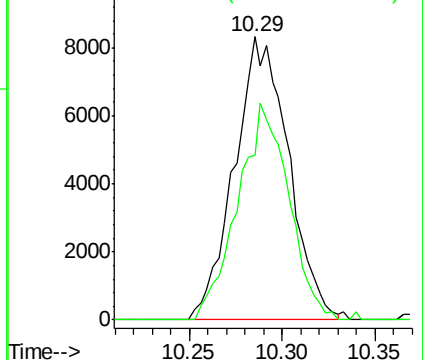


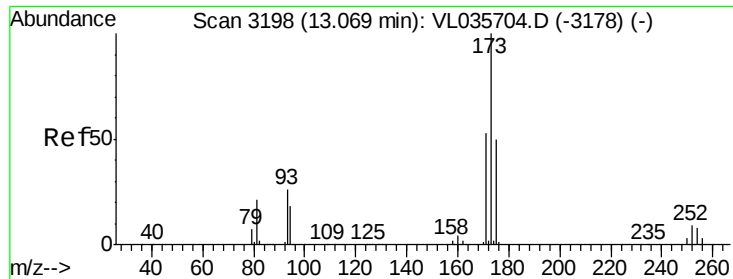
#48
 Dibromochloromethane
 Concen: 0.078 ppbv
 RT: 10.29 min Scan# 2332
 Delta R.T. -0.04 min
 Lab File: VL035794.D
 Acq: 19 Oct 2020 14:39

Tgt Ion: 129 Resp: 16853
 Ion Ratio Lower Upper
 129 100
 127 72.4 39.4 118.1



Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.069 ppbv m

RT: 13.03 min Scan# 3186

Delta R.T. -0.04 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

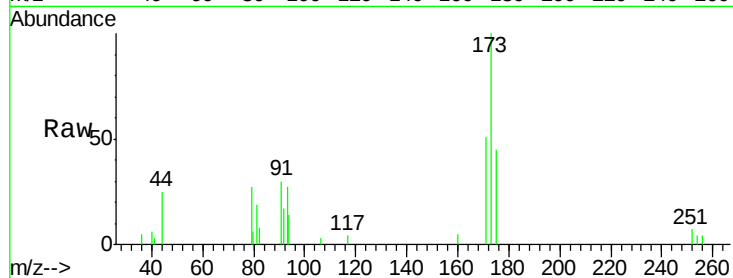
Tot Ion:173 Resp: 12703

Ion Ratio Lower Upper

173 100

175 0.0 39.8 59.6#

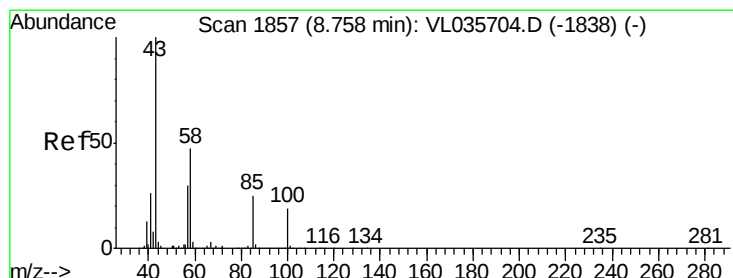
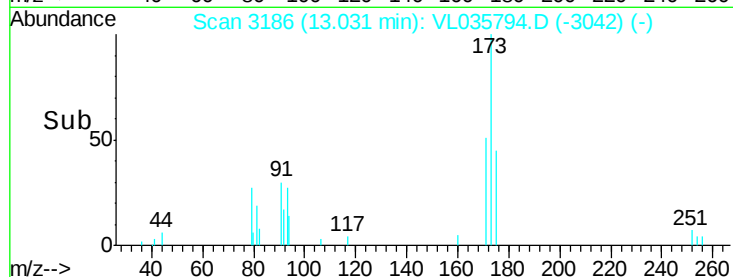
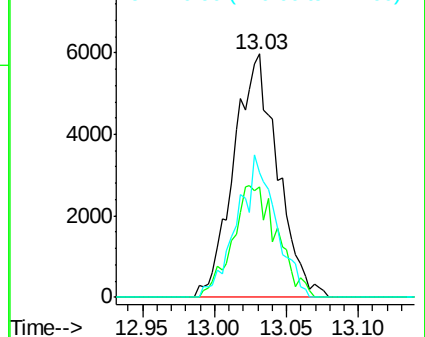
171 0.0 42.8 64.2#



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: 0.065 ppbv m

RT: 8.75 min Scan# 1855

Delta R.T. -0.01 min

Lab File: VL035794.D

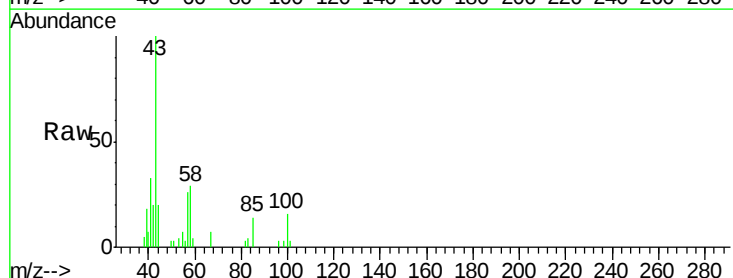
Acq: 19 Oct 2020 14:39

Tgt Ion: 43 Resp: 13171

Ion Ratio Lower Upper

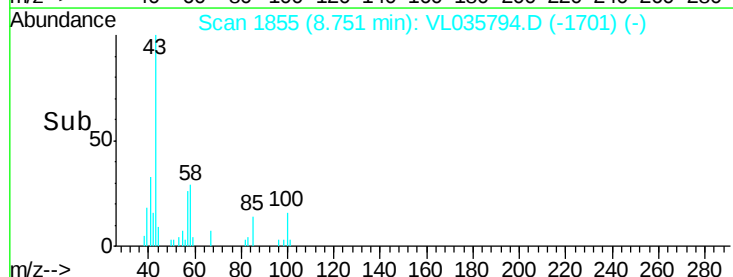
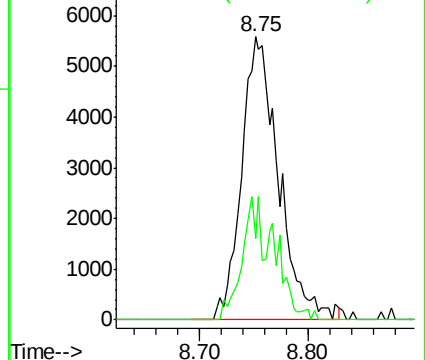
43 100

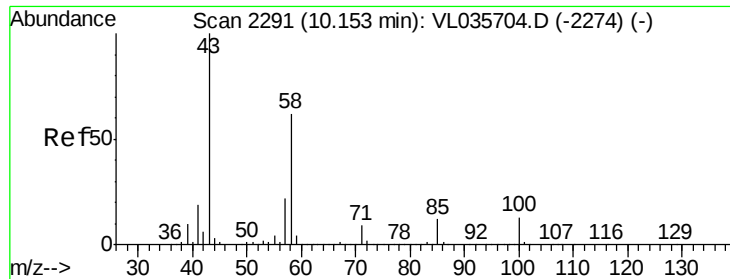
58 0.0 36.6 54.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

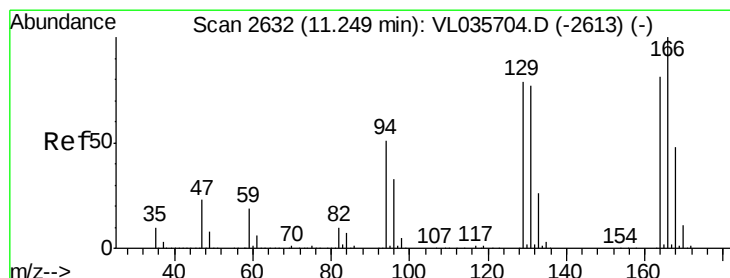
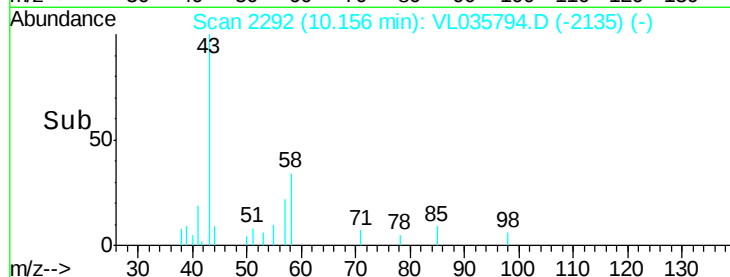
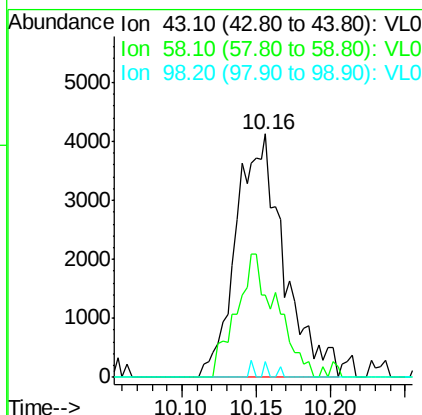
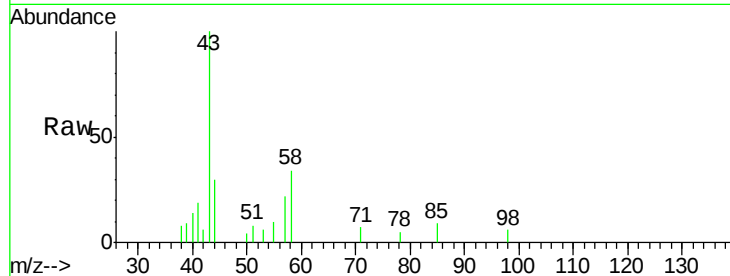




#51
2-Hexanone
Concen: 0.056 ppbv m
RT: 10.16 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VL035794.D
Acq: 19 Oct 2020 14:39

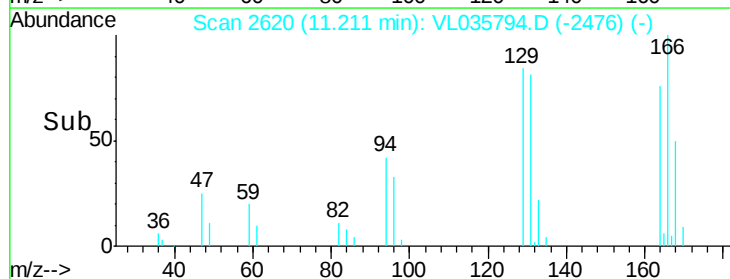
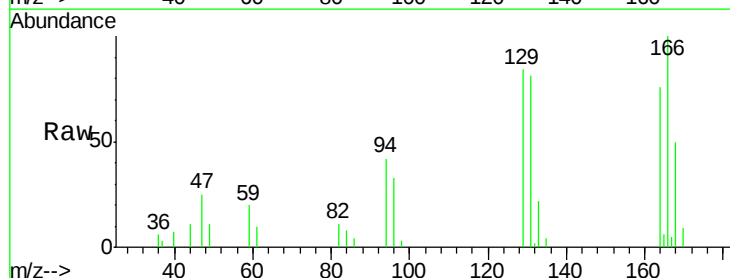
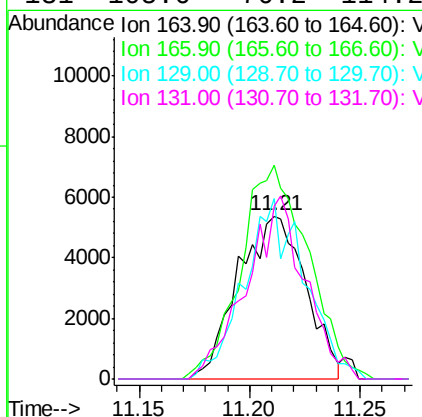
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT4-2020

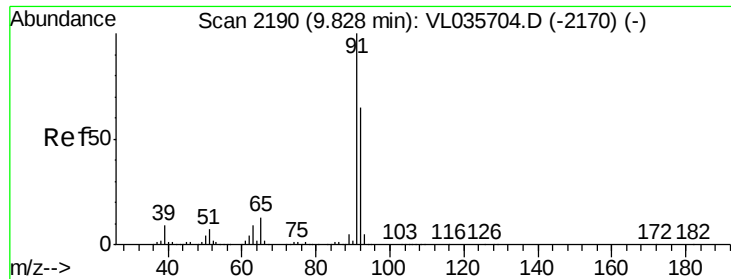
Tot Ion: 43 Resp: 9158
Ion Ratio Lower Upper
43 100
58 0.0 48.7 73.1#
98 0.0 0.7 1.1#



#52
Tetrachloroethene
Concen: 0.087 ppbv
RT: 11.21 min Scan# 2620
Delta R.T. -0.04 min
Lab File: VL035794.D
Acq: 19 Oct 2020 14:39

Tgt Ion: 164 Resp: 11396
Ion Ratio Lower Upper
164 100
166 128.1 98.7 148.1
129 110.5 78.4 117.6
131 105.6 76.2 114.2





#53

Toluene

Concen: 0.056 ppbv m

RT: 9.79 min Scan# 2178

Delta R.T. -0.04 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

Instrument :

MSVOA_L

ClientSampleId :

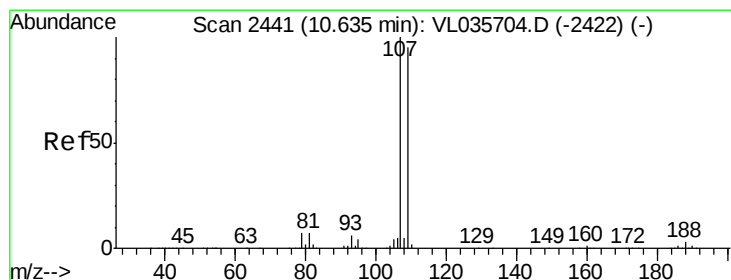
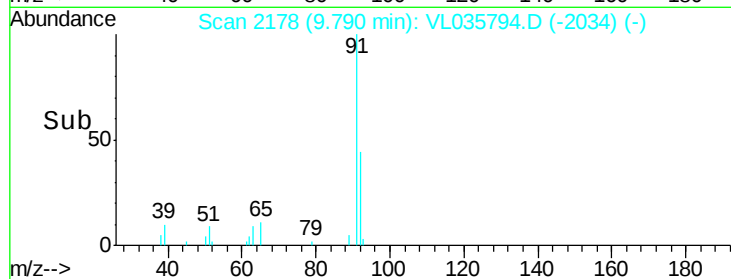
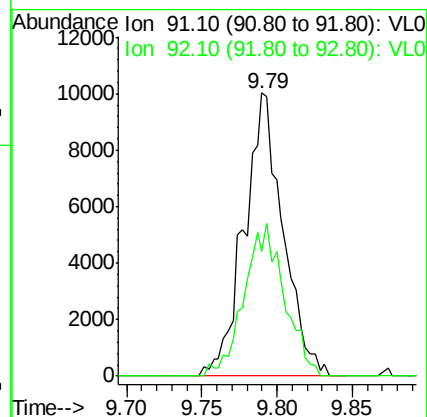
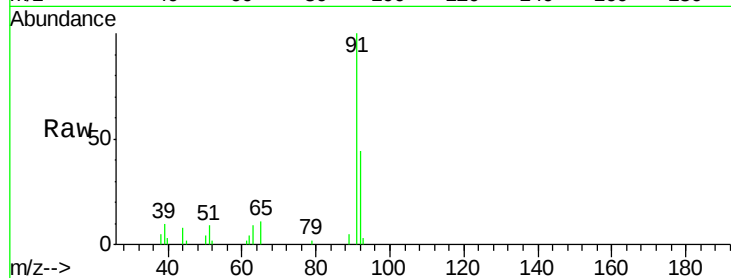
MDL-AIR-01-QT4-2020

Tot Ion: 91 Resp: 18049

Ion Ratio Lower Upper

91 100

92 55.6 50.0 75.0



#54

1,2-Dibromoethane

Concen: 0.093 ppbv m

RT: 10.59 min Scan# 2427

Delta R.T. -0.04 min

Lab File: VL035794.D

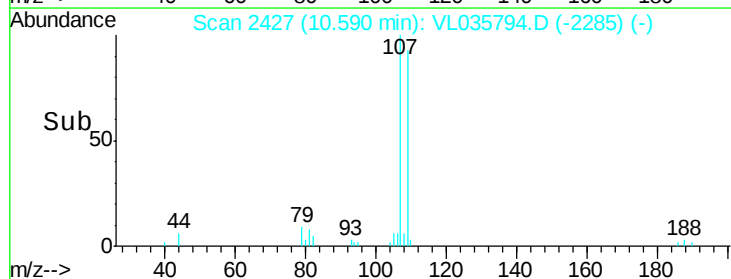
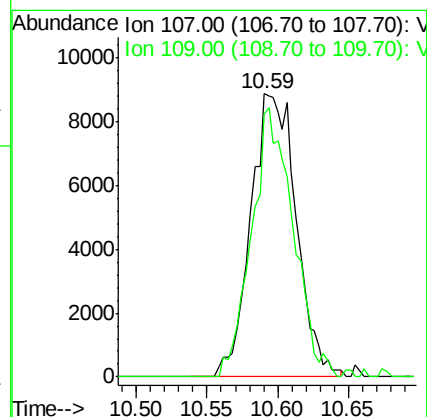
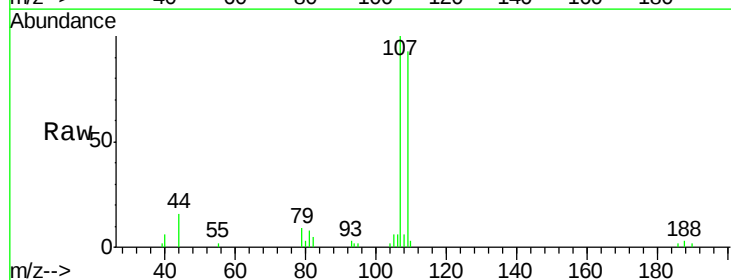
Acq: 19 Oct 2020 14:39

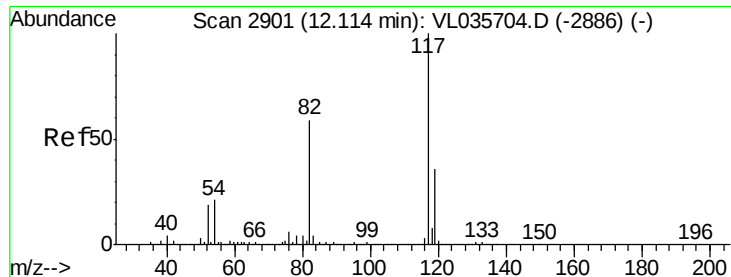
Tgt Ion: 107 Resp: 19788

Ion Ratio Lower Upper

107 100

109 93.1 76.0 114.0

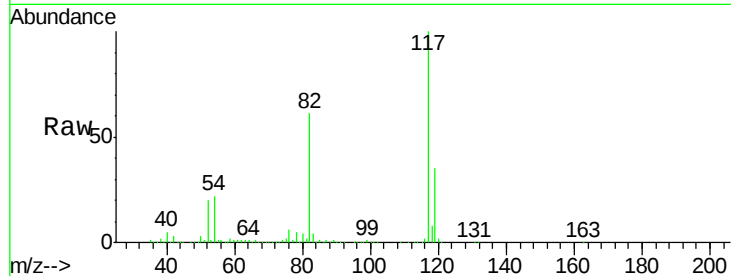




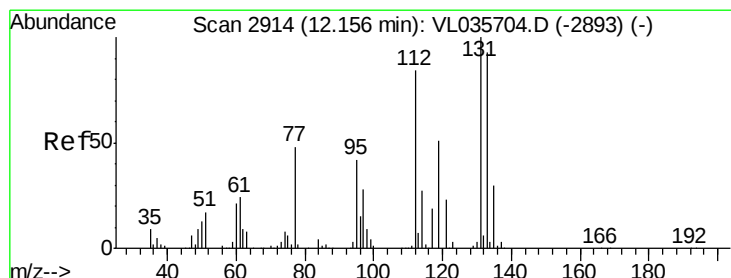
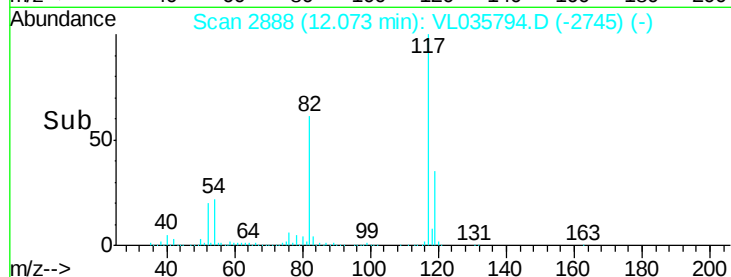
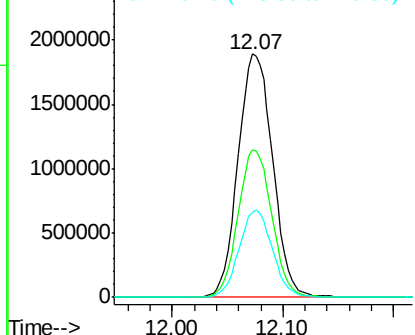
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2888
Delta R.T. -0.04 min
Lab File: VL035794.D
Acq: 19 Oct 2020 14:39

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

Tot Ion:117 Resp: 4115691
Ion Ratio Lower Upper
117 100
82 59.2 46.1 69.1
119 34.5 28.0 42.0

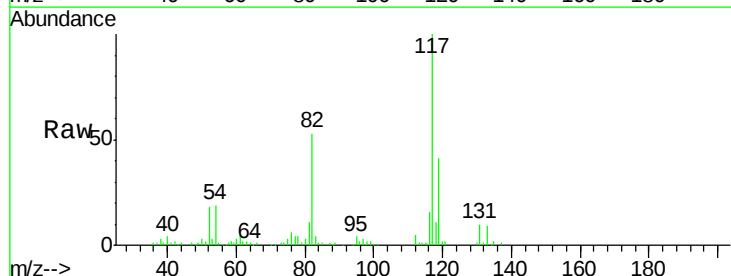


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): V
Ion 119.10 (118.80 to 119.80): V

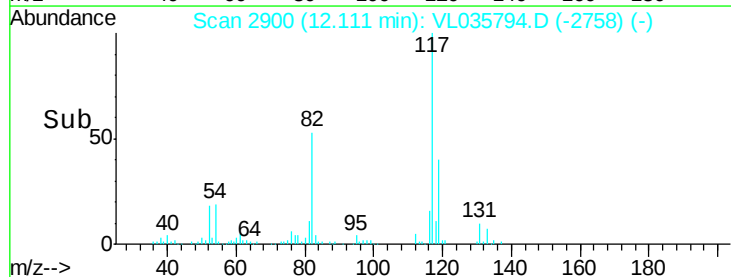
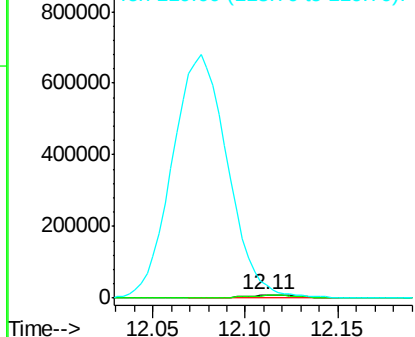


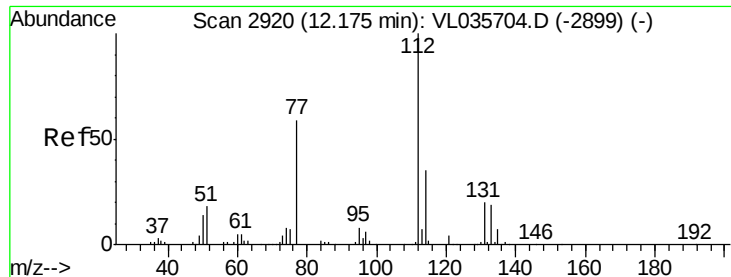
#56
1,1,1,2-Tetrachloroethane
Concen: 0.102 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. -0.04 min
Lab File: VL035794.D
Acq: 19 Oct 2020 14:39

Tgt Ion:131 Resp: 17648
Ion Ratio Lower Upper
131 100
133 91.9 76.2 114.4
119 8049.4 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

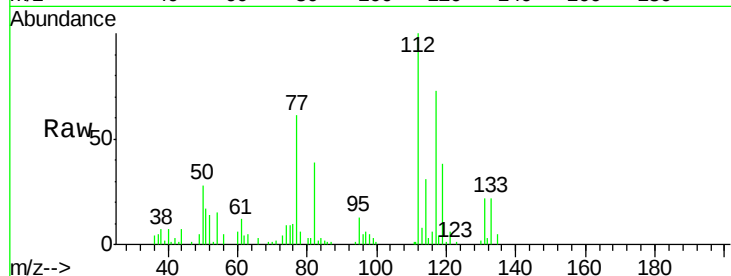




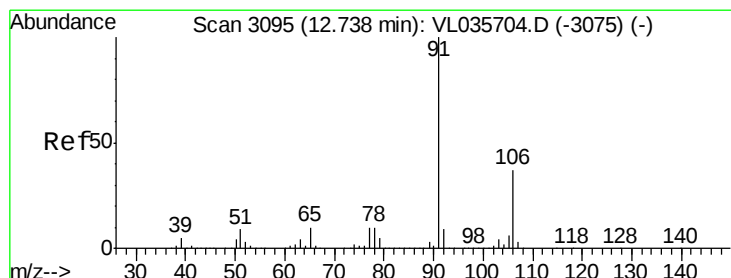
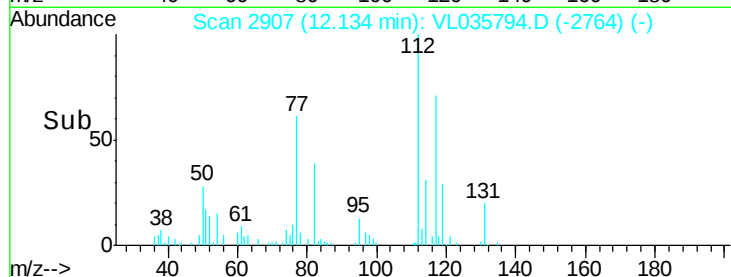
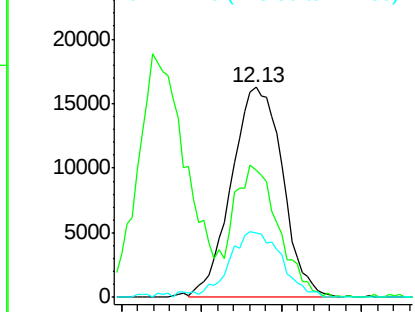
#57
Chlorobenzene
Concen: 0.114 ppbv
RT: 12.13 min Scan# 2907
Delta R.T. -0.04 min
Lab File: VL035794.D
Acq: 19 Oct 2020 14:39

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

Tot Ion:112 Resp: 35563
Ion Ratio Lower Upper
112 100
77 59.6 48.2 72.2
114 30.5 31.9 39.1#

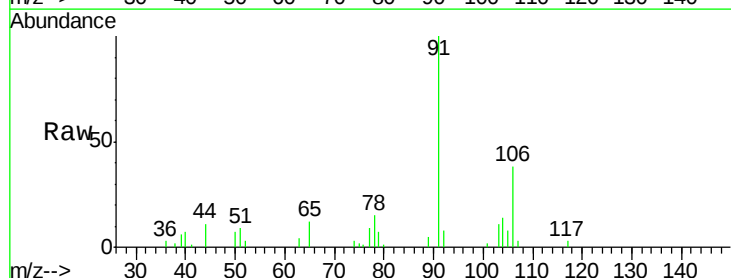


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

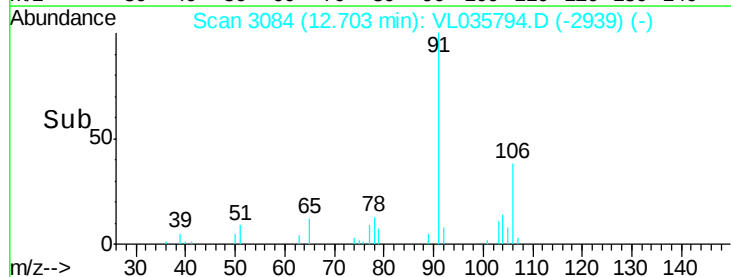
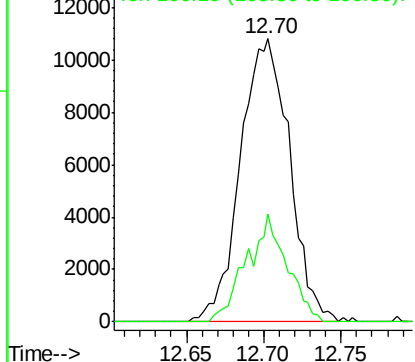


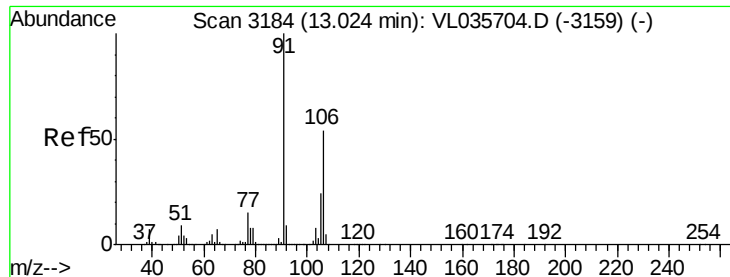
#58
Ethyl Benzene
Concen: 0.058 ppbv
RT: 12.70 min Scan# 3084
Delta R.T. -0.04 min
Lab File: VL035794.D
Acq: 19 Oct 2020 14:39

Tgt Ion: 91 Resp: 23859
Ion Ratio Lower Upper
91 100
106 38.3 29.7 44.5



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V

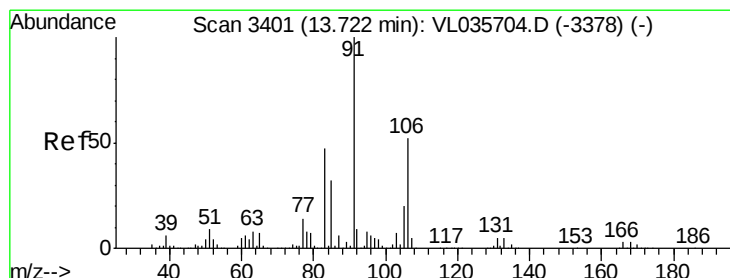
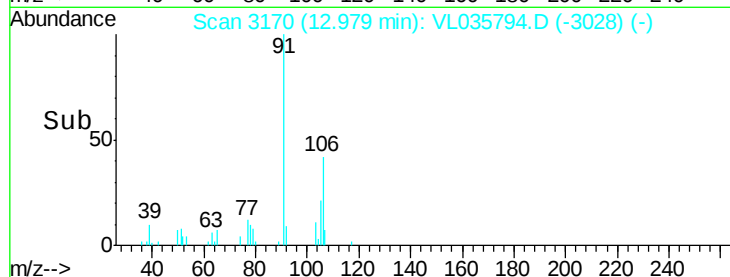
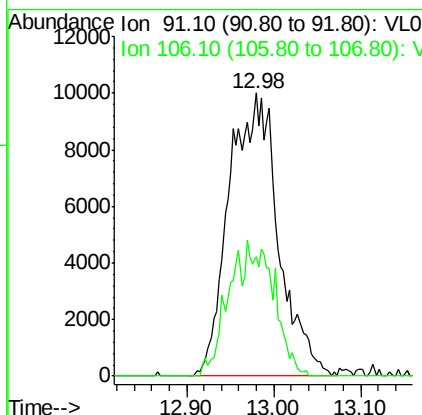
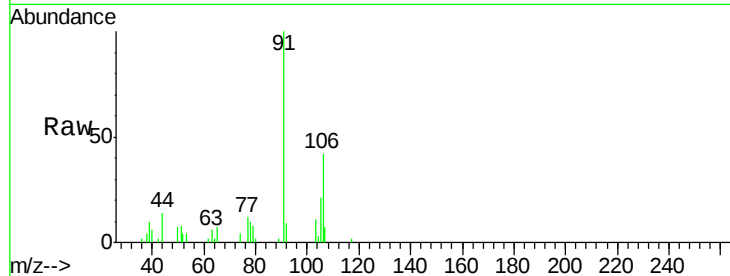




#59
m/p-Xylene
Concen: 0.109 ppbv m
RT: 12.98 min Scan# 3170
Delta R.T. -0.04 min
Lab File: VL035794.D
Acq: 19 Oct 2020 14:39

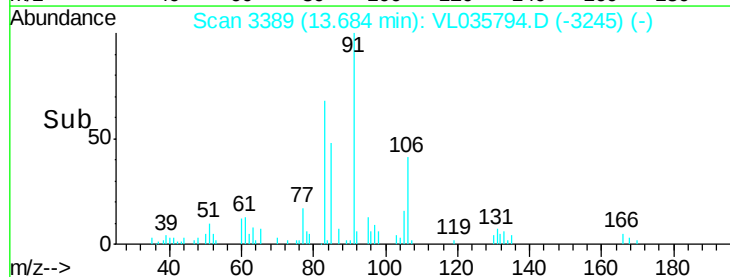
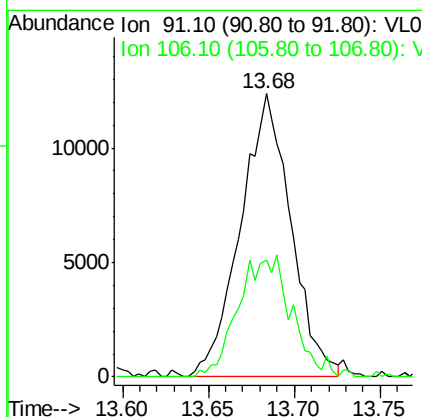
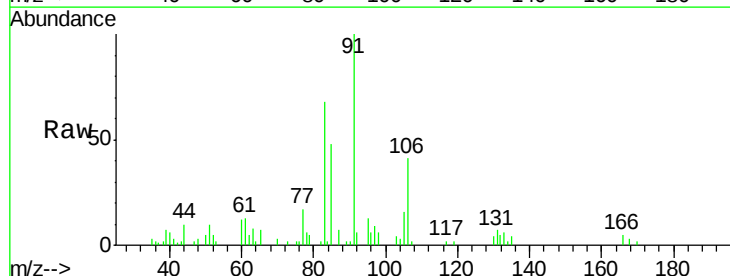
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT4-2020

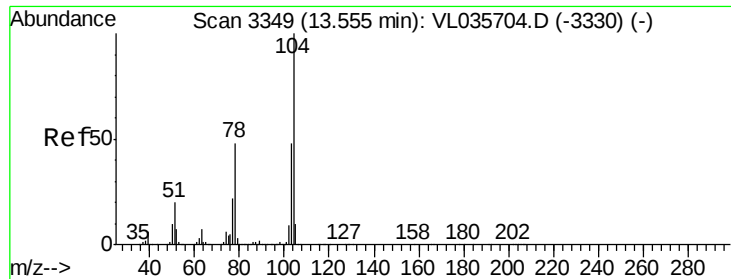
Tot Ion: 91 Resp: 39291
Ion Ratio Lower Upper
91 100
106 0.0 41.4 62.0#



#60
o-Xylene
Concen: 0.069 ppbv
RT: 13.68 min Scan# 3389
Delta R.T. -0.04 min
Lab File: VL035794.D
Acq: 19 Oct 2020 14:39

Tgt Ion: 91 Resp: 25182
Ion Ratio Lower Upper
91 100
106 45.3 25.0 75.0





#61

Stvrene

Concen: 0.038 ppbv

RT: 13.52 min Scan# 3337

Delta R.T. -0.04 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

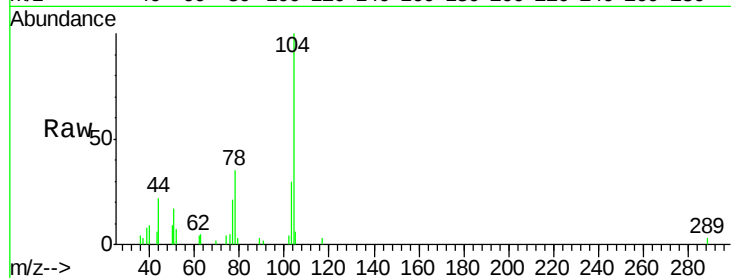
Tot Ion:104 Resp: 9502

Ion Ratio Lower Upper

104 100

78 59.4 37.2 55.8#

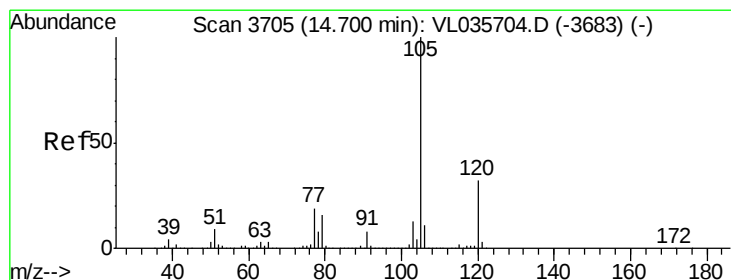
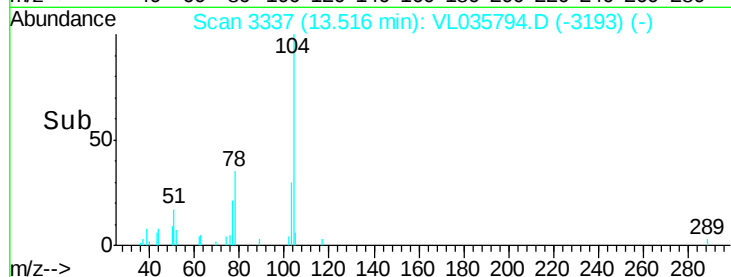
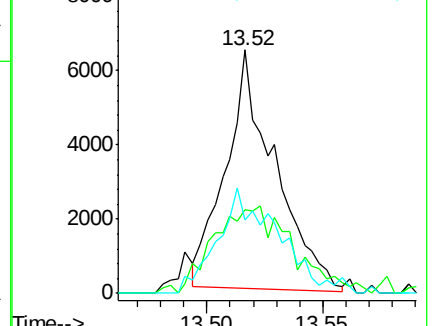
103 54.9 38.2 57.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): V

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.064 ppbv

RT: 14.66 min Scan# 3693

Delta R.T. -0.04 min

Lab File: VL035794.D

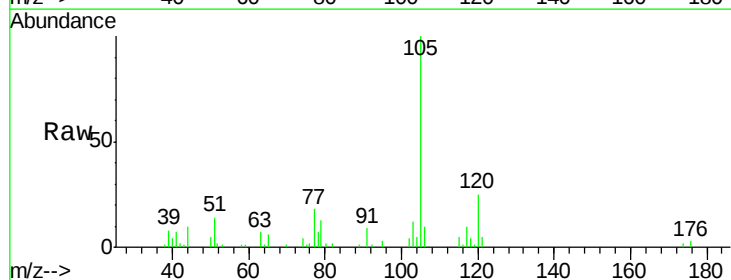
Acq: 19 Oct 2020 14:39

Tgt Ion:105 Resp: 36087

Ion Ratio Lower Upper

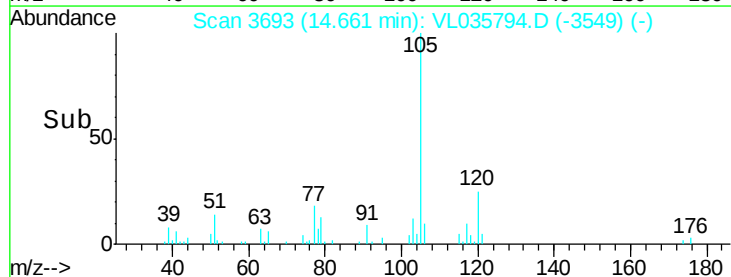
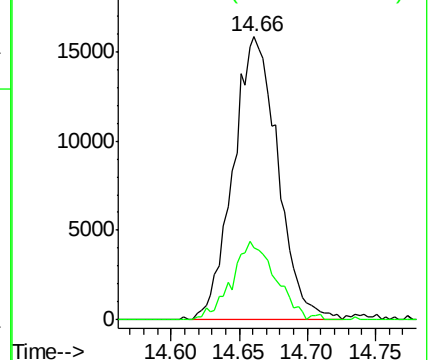
105 100

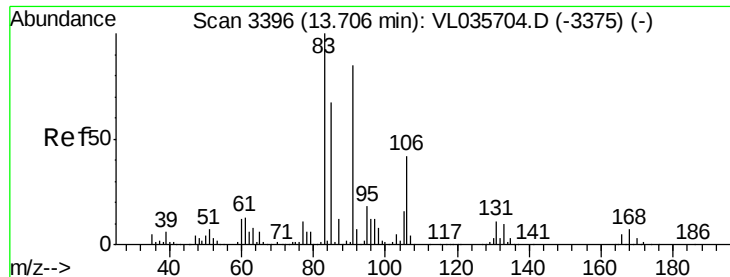
120 27.2 24.1 36.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 0.104 ppbv m

RT: 13.67 min Scan# 3384

Delta R.T. -0.04 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

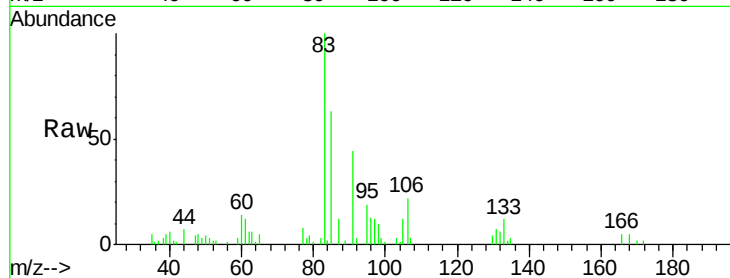
Tot Ion: 83 Resp: 31203

Ion Ratio Lower Upper

83 100

131 0.0 5.3 16.1#

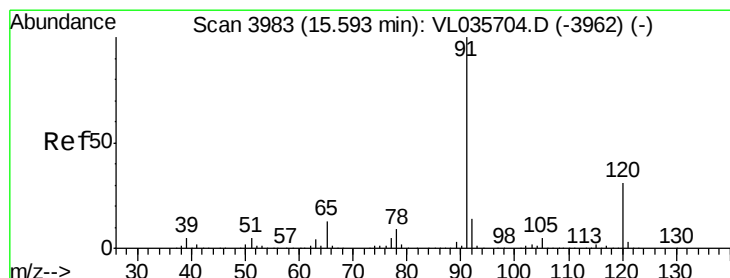
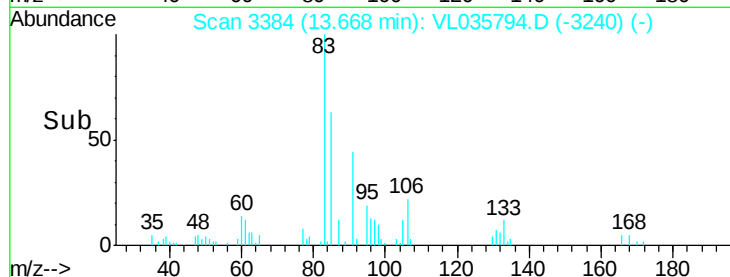
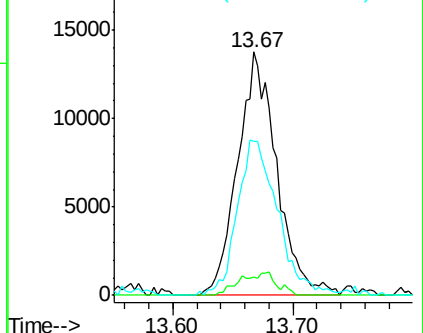
85 67.3 33.4 100.2



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 0.043 ppbv m

RT: 15.56 min Scan# 3973

Delta R.T. -0.03 min

Lab File: VL035794.D

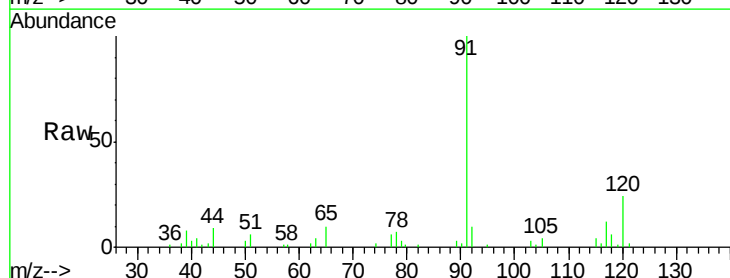
Acq: 19 Oct 2020 14:39

Tgt Ion: 120 Resp: 7144

Ion Ratio Lower Upper

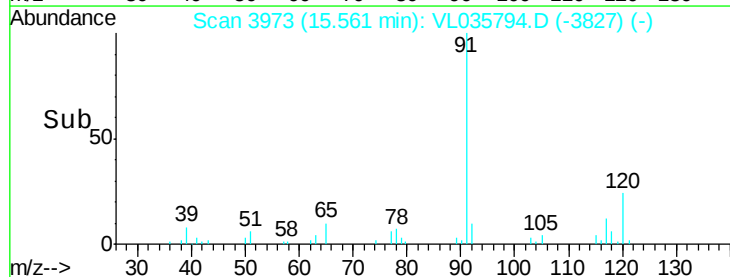
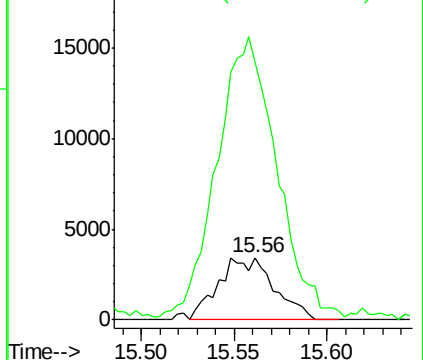
120 100

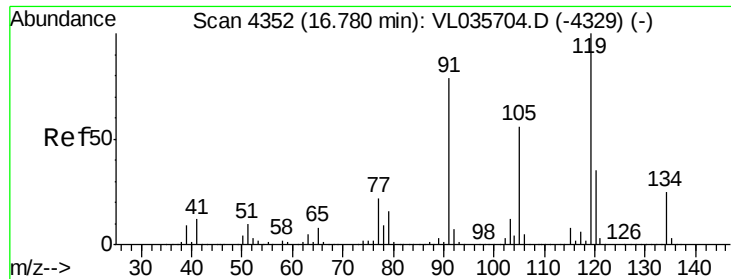
91 0.0 300.4 450.6#



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

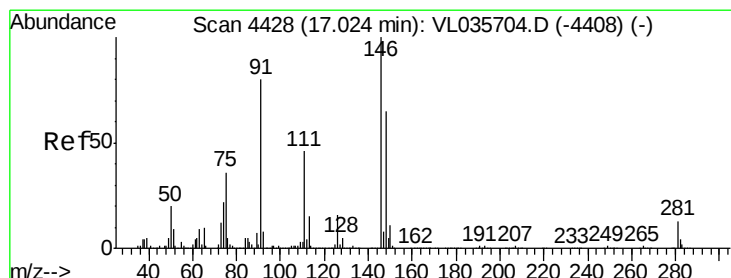
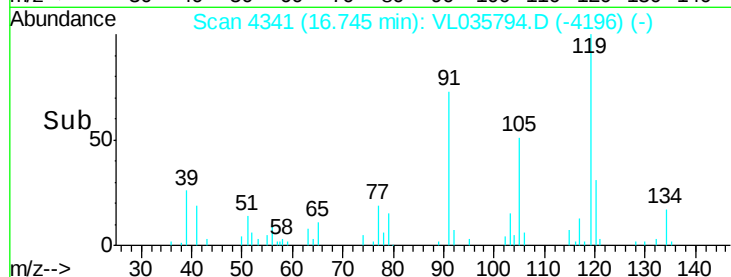
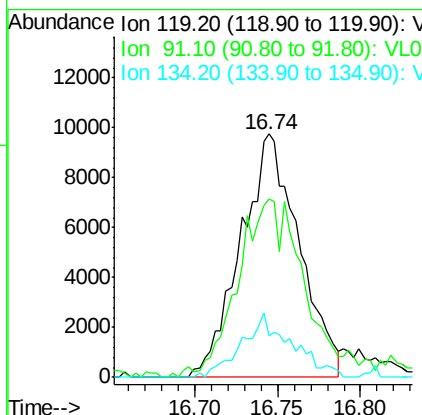
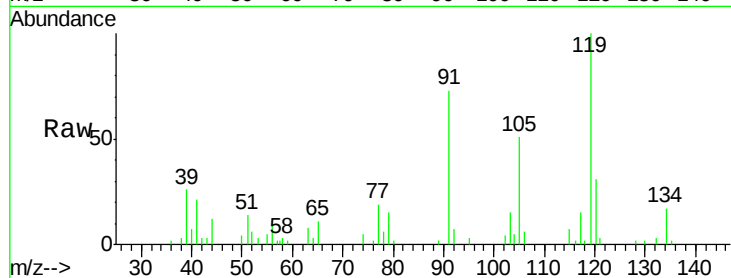




#65
tert-Butylbenzene
Concen: 0.046 ppbv
RT: 16.74 min Scan# 4341
Delta R.T. -0.04 min
Lab File: VL035794.D
Acq: 19 Oct 2020 14:39

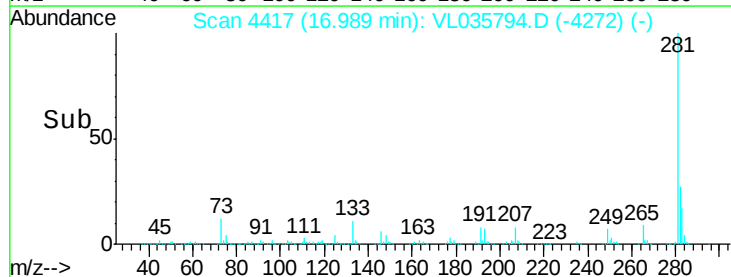
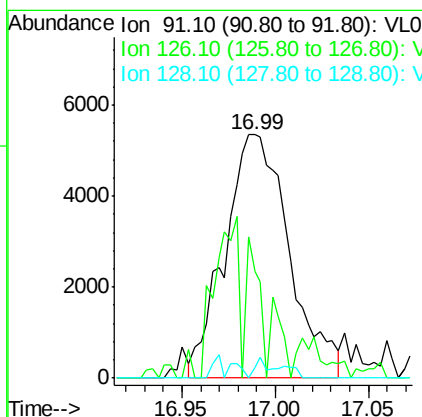
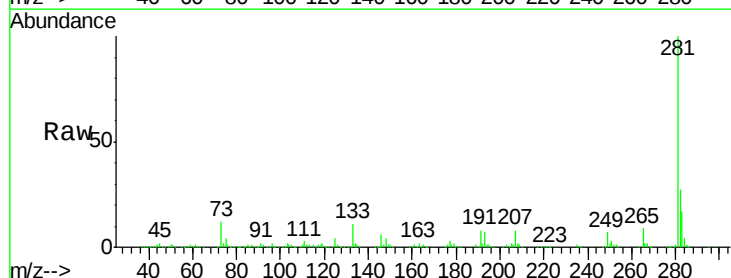
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT4-2020

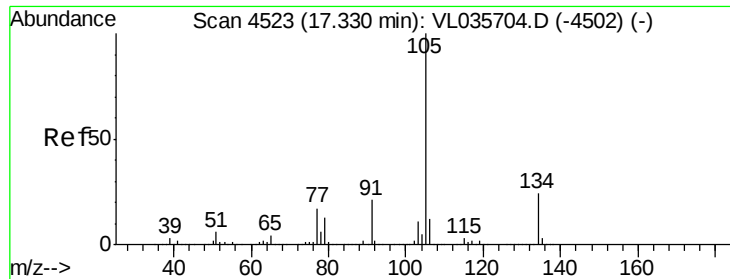
Tot Ion:119 Resp: 23812
Ion Ratio Lower Upper
119 100
91 89.8 62.4 93.6
134 23.0 18.2 27.2



#66
Benzyl Chloride
Concen: 0.083 ppbv m
RT: 16.99 min Scan# 4417
Delta R.T. -0.04 min
Lab File: VL035794.D
Acq: 19 Oct 2020 14:39

Tgt Ion: 91 Resp: 12869
Ion Ratio Lower Upper
91 100
126 0.0 15.3 22.9#
128 5.5 5.0 7.4

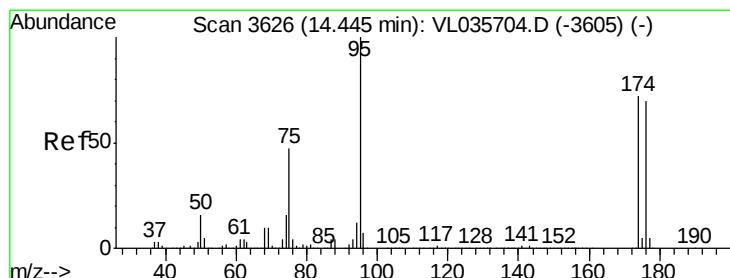
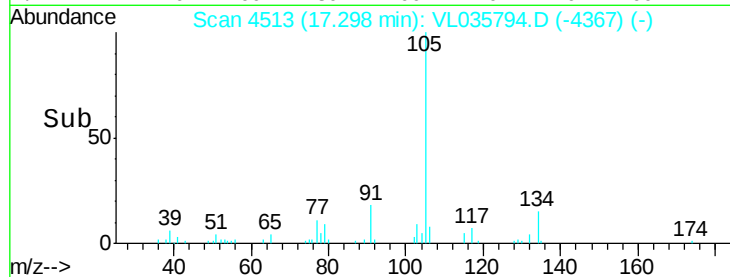
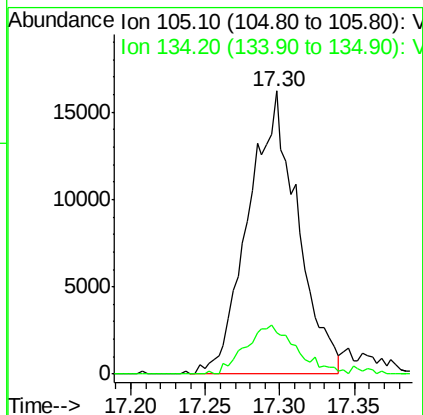
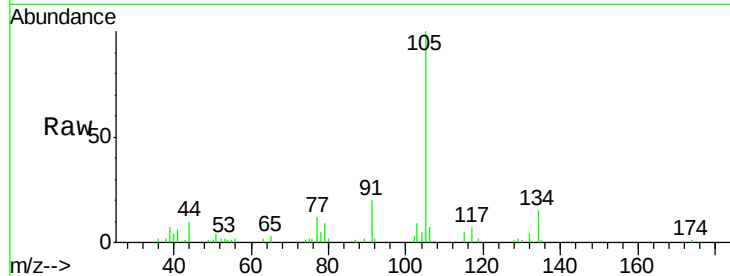




#67
 sec-Butylbenzene
 Concen: 0.052 ppbv m
 RT: 17.30 min Scan# 4513
 Delta R.T. -0.03 min
 Lab File: VL035794.D
 Acq: 19 Oct 2020 14:39

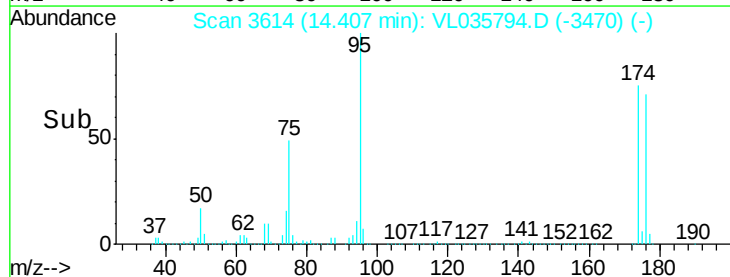
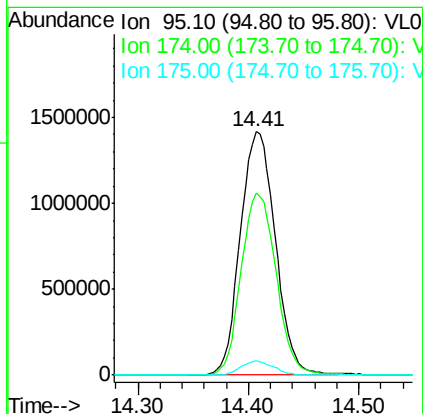
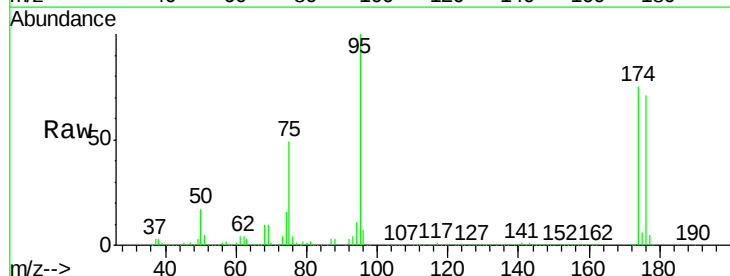
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT4-2020

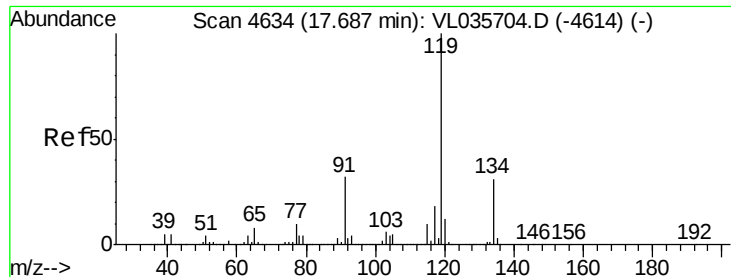
Tot Ion: 105 Resp: 37128
 Ion Ratio Lower Upper
 105 100
 134 0.0 17.6 26.4#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.120 ppbv
 RT: 14.41 min Scan# 3614
 Delta R.T. -0.04 min
 Lab File: VL035794.D
 Acq: 19 Oct 2020 14:39

Tgt Ion: 95 Resp: 3121131
 Ion Ratio Lower Upper
 95 100
 174 75.5 59.6 89.4
 175 5.5 4.2 6.4

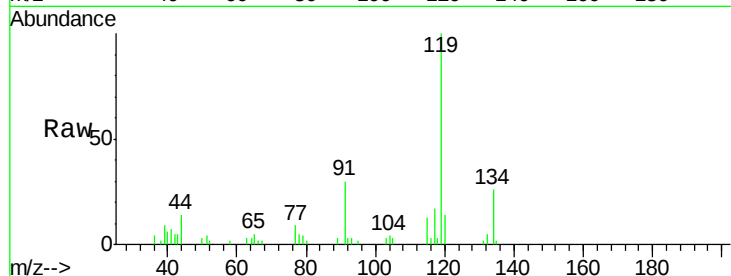




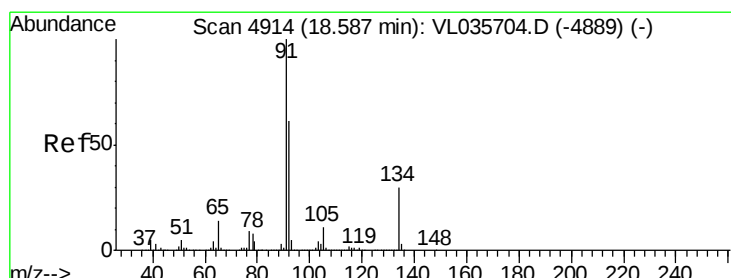
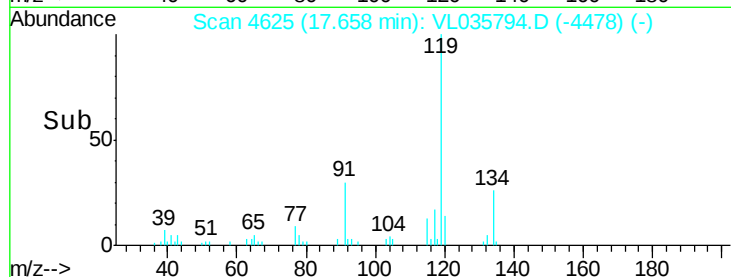
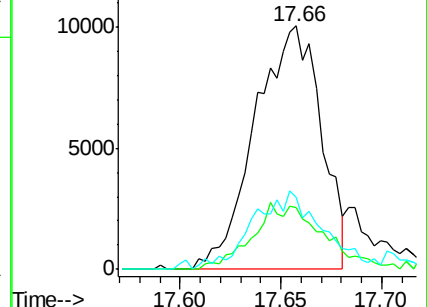
#69
p-Isopropyltoluene
Concen: 0.040 ppbv
RT: 17.66 min Scan# 4625
Delta R.T. -0.03 min
Lab File: VL035794.D
Acq: 19 Oct 2020 14:39

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

Tot Ion:119 Resp: 22860
Ion Ratio Lower Upper
119 100
134 29.6 23.9 35.9
91 37.5 23.8 35.6#

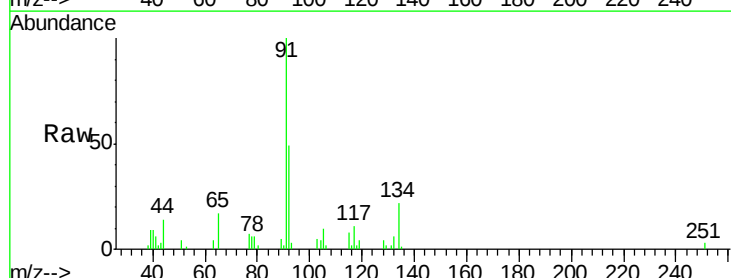


Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): V

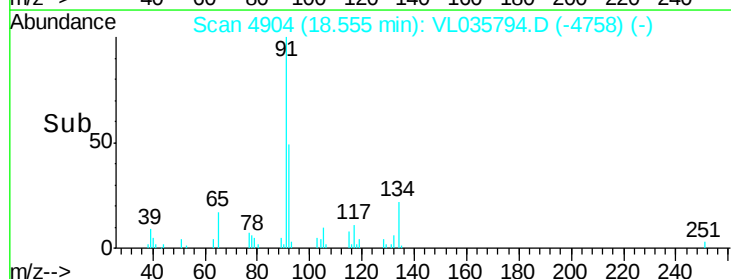
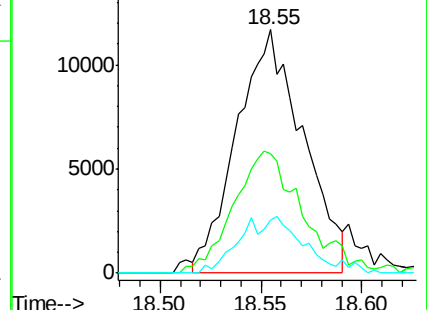


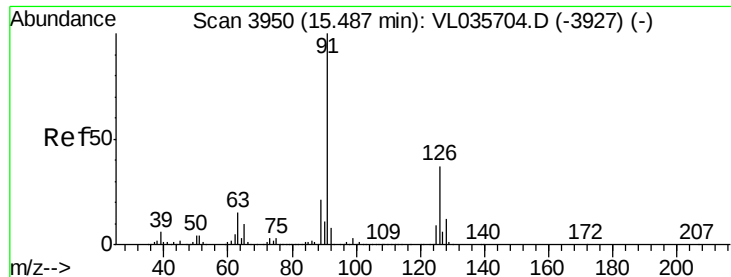
#70
n-Butylbenzene
Concen: 0.045 ppbv
RT: 18.55 min Scan# 4904
Delta R.T. -0.03 min
Lab File: VL035794.D
Acq: 19 Oct 2020 14:39

Tgt Ion: 91 Resp: 26759
Ion Ratio Lower Upper
91 100
92 53.1 47.0 70.4
134 22.8 21.9 32.9



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0
Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 0.059 ppbv

RT: 15.44 min Scan# 3936

Delta R.T. -0.04 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

Instrument :

MSVOA_L

ClientSampleId :

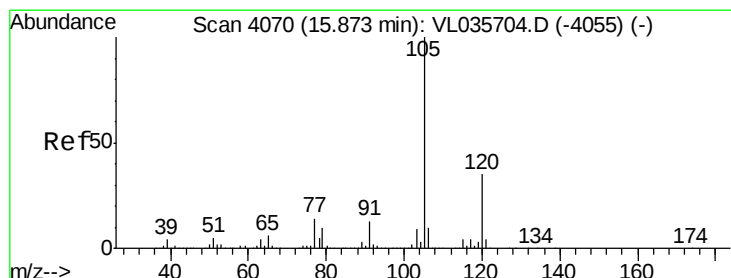
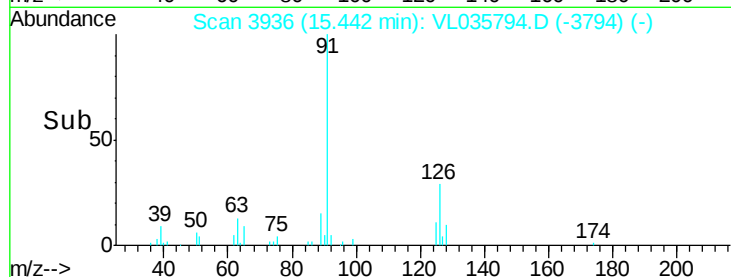
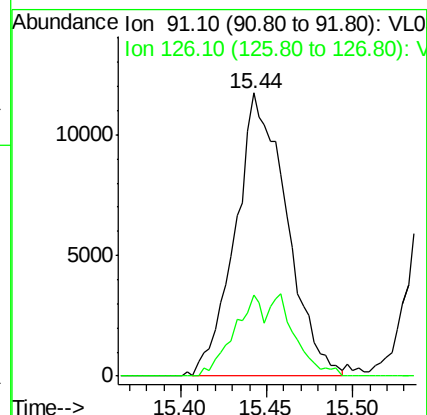
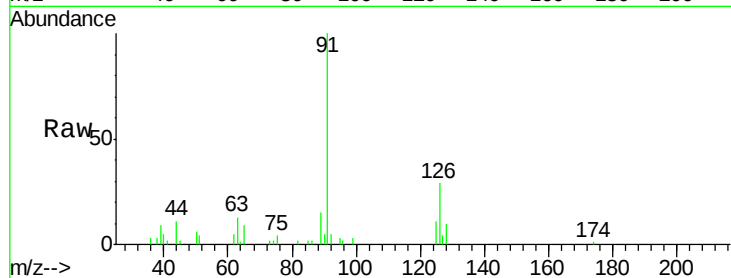
MDL-AIR-01-QT4-2020

Tot Ion: 91 Resp: 24334

Ion Ratio Lower Upper

91 100

126 31.4 14.4 57.4



#72

4-Ethyltoluene

Concen: 0.042 ppbv

RT: 15.84 min Scan# 4059

Delta R.T. -0.04 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

Tgt Ion: 105 Resp: 18357

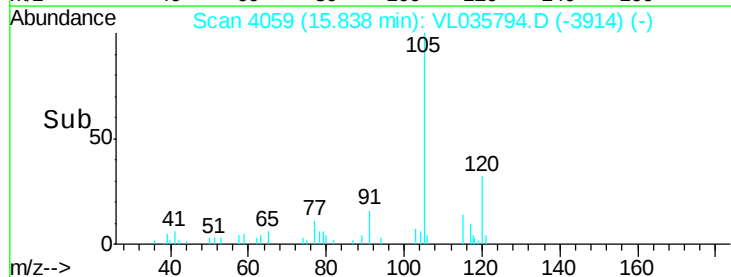
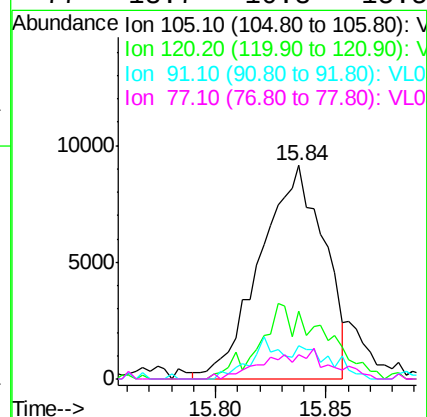
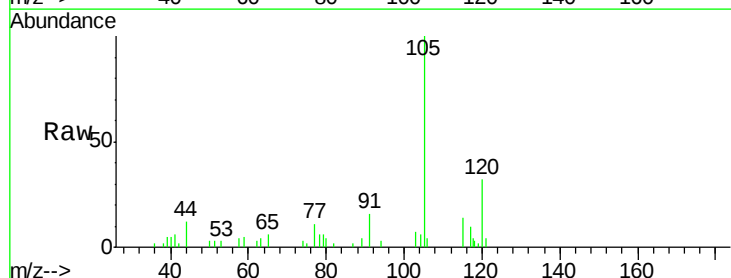
Ion Ratio Lower Upper

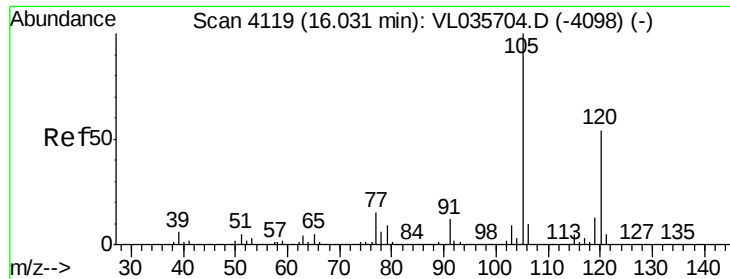
105 100

120 36.1 26.5 39.7

91 18.4 10.2 15.2#

77 13.7 10.3 15.5





#73

1,3,5-Trimethylbenzene

Concen: 0.045 ppbv m

RT: 16.00 min Scan# 4109

Delta R.T. -0.03 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

Instrument :

MSVOA_L

ClientSampleId :

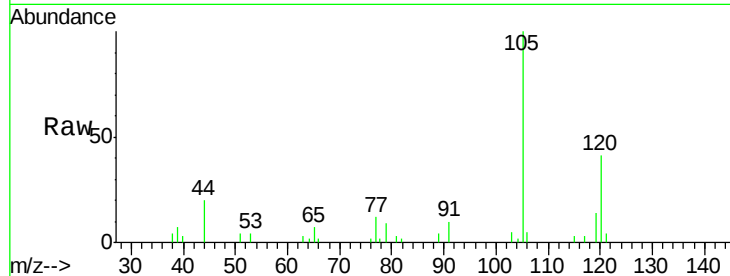
MDL-AIR-01-QT4-2020

Tot Ion:105 Resp: 18401

Ion Ratio Lower Upper

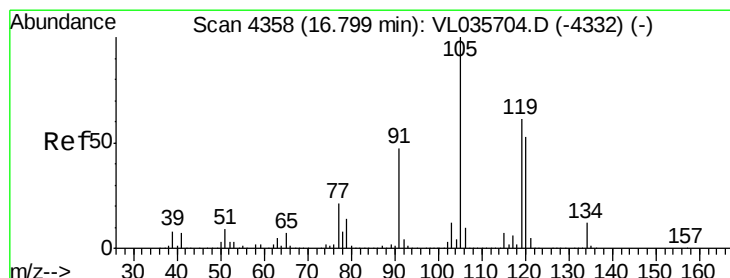
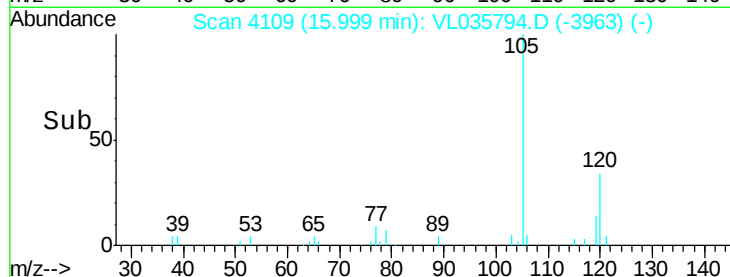
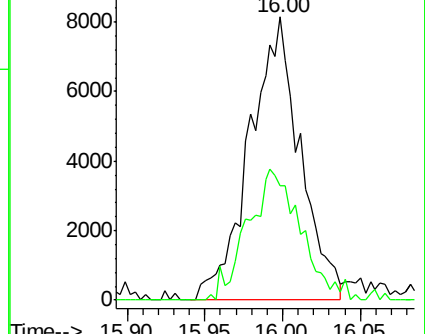
105 100

120 40.6 43.0 64.4#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.050 ppbv m

RT: 16.76 min Scan# 4345

Delta R.T. -0.04 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

Tgt Ion:105 Resp: 23253

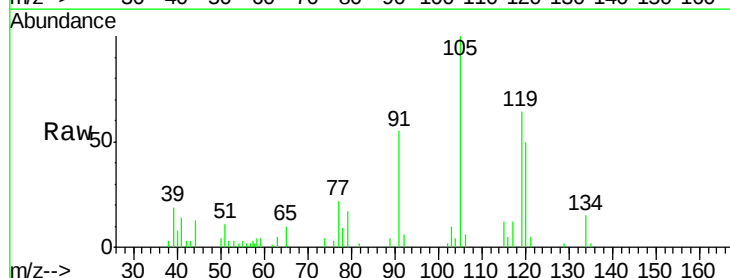
Ion Ratio Lower Upper

105 100

120 50.2 42.5 63.7

91 55.4 37.7 56.5

77 21.9 16.7 25.1

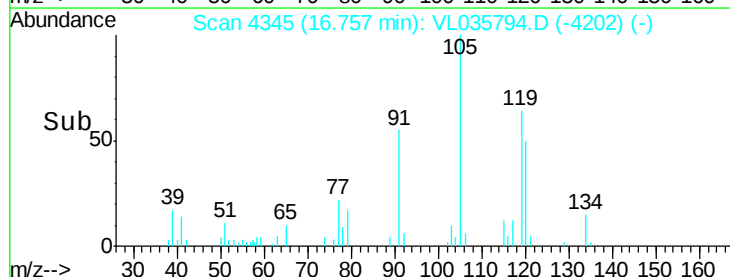
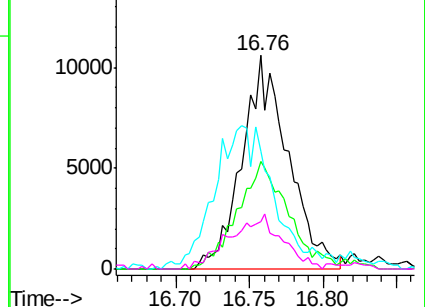


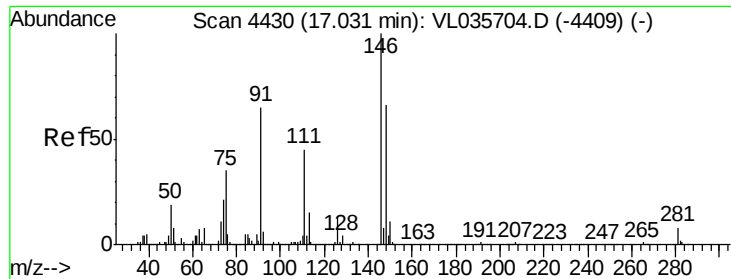
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 0.119 ppbv m

RT: 16.99 min Scan# 4418

Delta R.T. -0.04 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

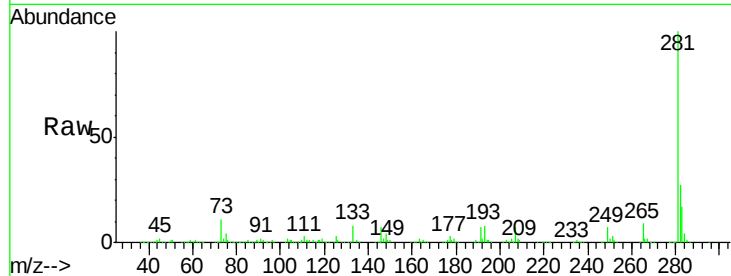
Tot Ion:146 Resp: 37288

Ion Ratio Lower Upper

146 100

111 54.2 22.4 67.0

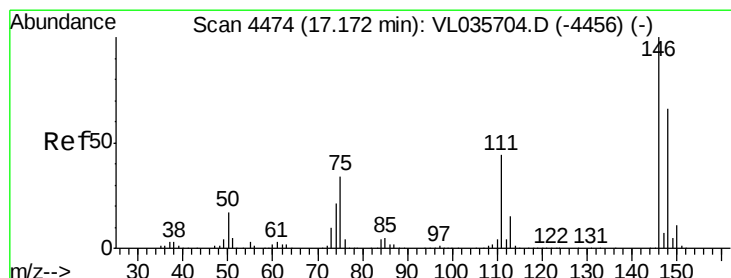
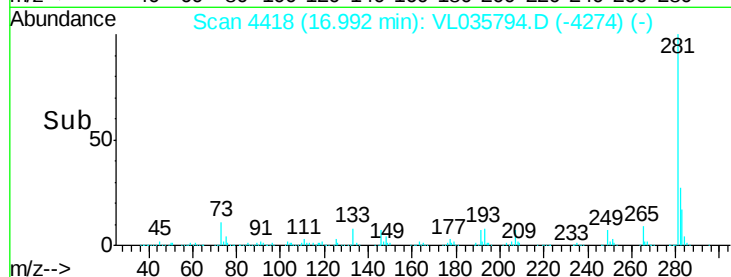
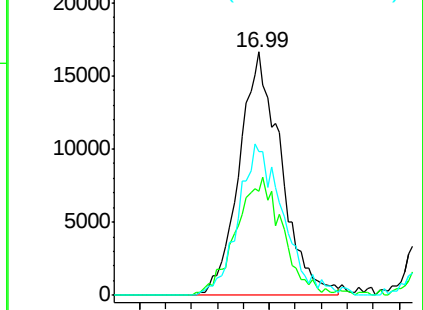
148 66.8 33.0 99.0



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: 0.089 ppbv m

RT: 17.13 min Scan# 4462

Delta R.T. -0.04 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

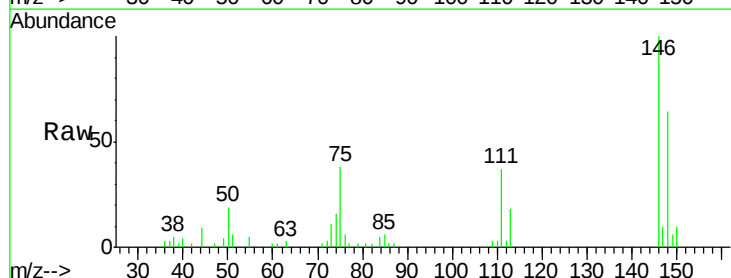
Tgt Ion:146 Resp: 26668

Ion Ratio Lower Upper

146 100

111 0.0 21.4 64.3#

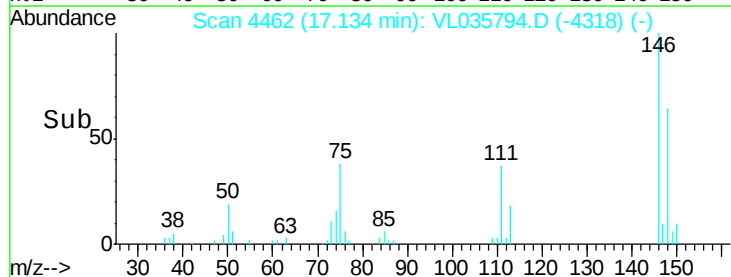
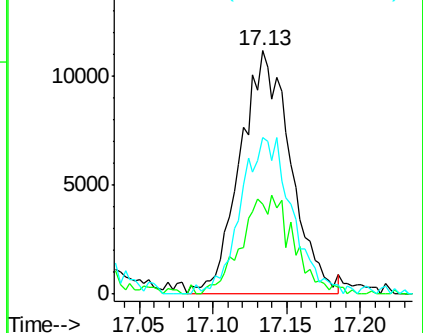
148 0.0 32.6 98.0#

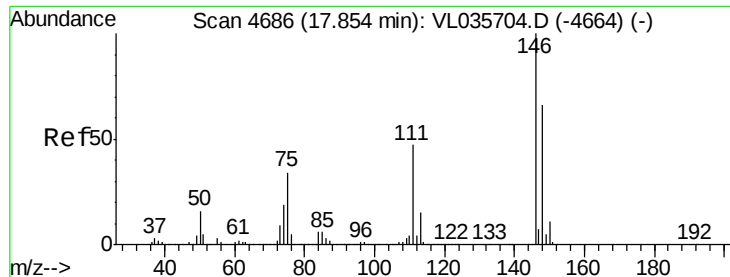


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

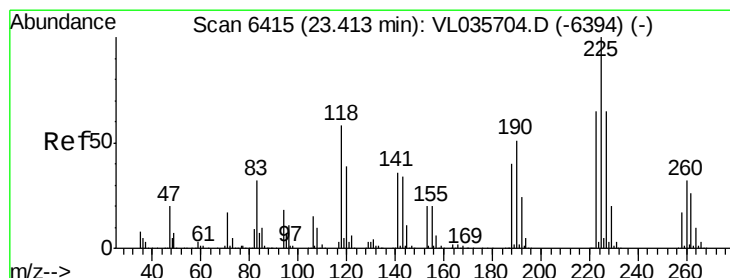
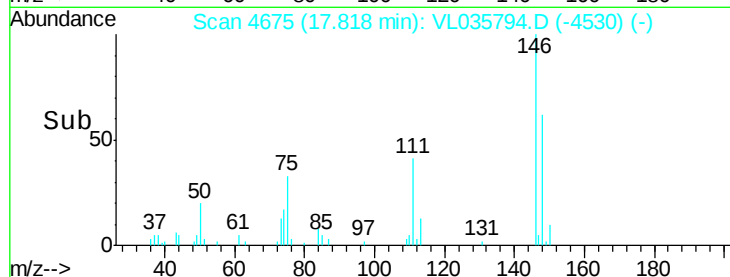
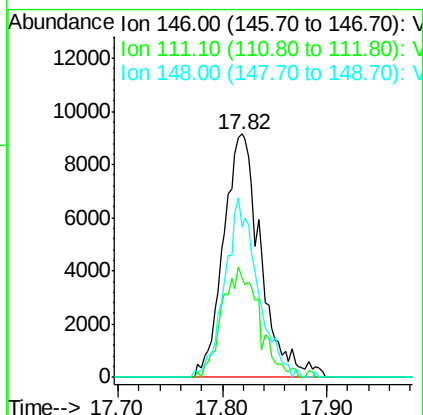
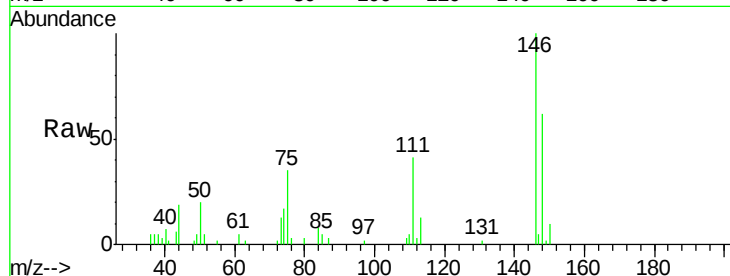




#77
 1,2-Dichlorobenzene
 Concen: 0.077 ppbv m
 RT: 17.82 min Scan# 4675
 Delta R.T. -0.04 min
 Lab File: VL035794.D
 Acq: 19 Oct 2020 14:39

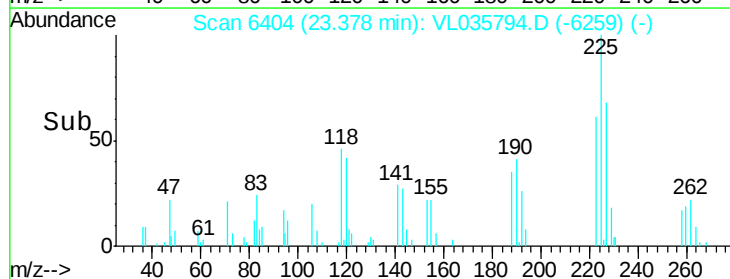
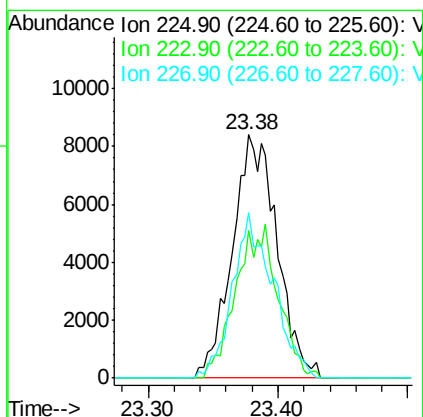
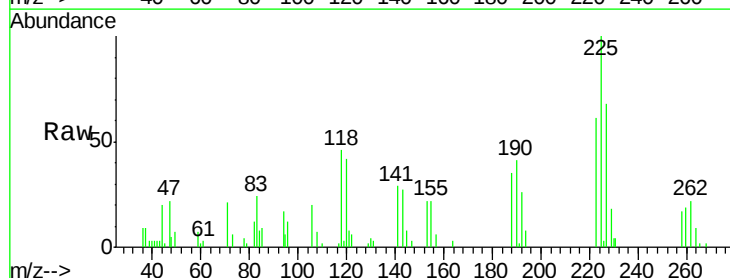
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT4-2020

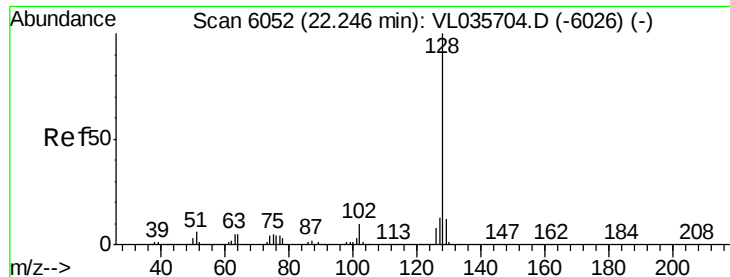
Tot Ion:146 Resp: 22722
 Ion Ratio Lower Upper
 146 100
 111 44.8 22.9 68.5
 148 65.1 32.6 98.0



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.122 ppbv m
 RT: 23.38 min Scan# 6404
 Delta R.T. -0.04 min
 Lab File: VL035794.D
 Acq: 19 Oct 2020 14:39

Tgt Ion:225 Resp: 20026
 Ion Ratio Lower Upper
 225 100
 223 0.0 51.3 76.9#
 227 61.6 51.6 77.4





#79

Naphthalene

Concen: 0.045 ppbv m

RT: 22.21 min Scan# 6042

Delta R.T. -0.03 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

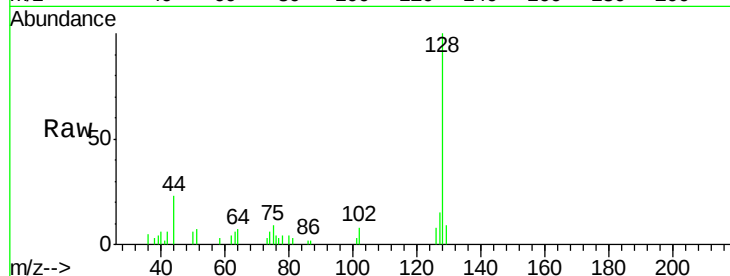
Tot Ion:128 Resp: 19789

Ion Ratio Lower Upper

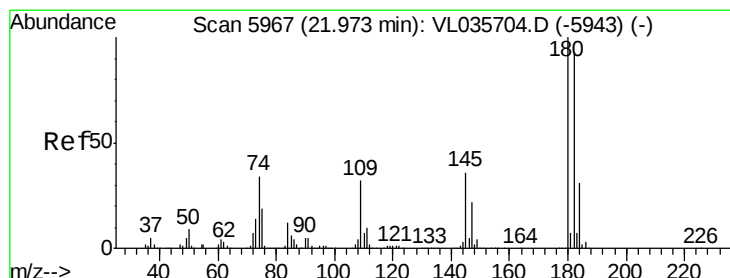
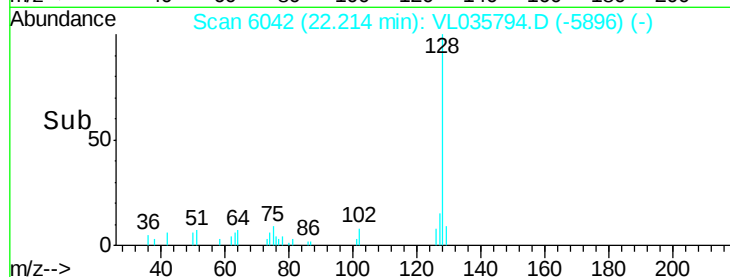
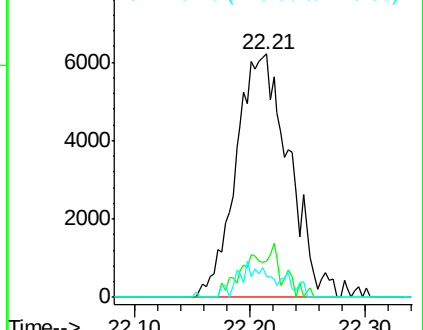
128 100

127 15.1 10.6 15.8

129 8.6 9.4 14.0#



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#81

1,2,4-Trichlorobenzene

Concen: 0.066 ppbv m

RT: 21.94 min Scan# 5958

Delta R.T. -0.03 min

Lab File: VL035794.D

Acq: 19 Oct 2020 14:39

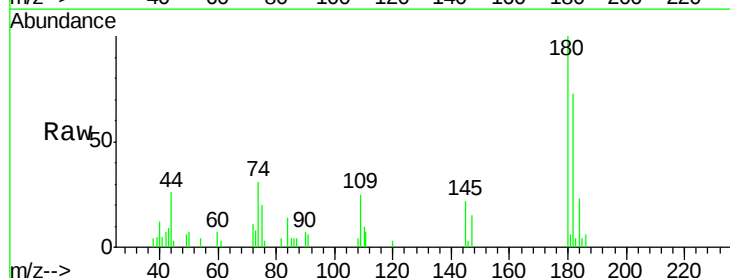
Tgt Ion:180 Resp: 14939

Ion Ratio Lower Upper

180 100

182 0.0 76.2 114.2#

184 0.0 24.6 37.0#



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 184.00 (183.70 to 184.70): V

