

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041719\
 Data File : VL033606.D
 Acq On : 17 Apr 2019 17:31
 Operator : SY/AP
 Sample : K2241-15 0.1 PPB
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT2-2019

Quant Time: Apr 22 11:24:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	761902	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1789305	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1802243	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1458268	10.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	17105m	0.154	ppbv	
3) Chlorodifluoromethane	3.01	51	10642	0.121	ppbv	99
4) Chloromethane	3.17	50	5454	0.118	ppbv	89
5) Vinyl Chloride	3.30	62	4624m	0.101	ppbv	
6) Bromomethane	3.51	94	3014	0.103	ppbv	93
7) Chloroethane	3.60	64	2126m	0.125	ppbv	
8) Dichlorotetrafluoroethane	3.22	85	13384	0.113	ppbv	96
9) Propene	3.04	41	3627	0.098	ppbv #	76
10) Heptane	8.25	43	5770m	0.059	ppbv	
11) Trichlorofluoromethane	4.00	101	15613	0.114	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.55	101	11398m	0.124	ppbv	
14) Bromoethene	3.79	108	3486	0.095	ppbv #	95
15) Acetone	3.92	43	18032	0.197	ppbv #	90
16) 1,3-Butadiene	3.37	39	2375	0.065	ppbv #	47
18) 1,1-Dichloroethene	4.35	96	4433m	0.112	ppbv	
19) Isopropyl Alcohol	4.05	45	7019	0.121	ppbv #	93
20) Methylene Chloride	4.41	84	1672	0.043	ppbv #	67
21) Allyl Chloride	4.48	41	6403m	0.111	ppbv	
22) trans-1,2-Dichloroethene	4.97	96	4939m	0.120	ppbv	
23) Vinyl Acetate	5.16	43	12213m	0.094	ppbv	
24) 1,1-Dichloroethane	5.09	63	10623	0.107	ppbv	98
25) Ethyl Acetate	5.79	43	15649	0.092	ppbv #	93
26) Hexane	5.77	57	7026m	0.093	ppbv	
27) Carbon Disulfide	4.62	76	8332m	0.093	ppbv	
28) Methyl tert-Butyl Ether	5.14	73	8441m	0.078	ppbv	
29) Chloroform	5.85	83	13168	0.102	ppbv	90
30) Cyclohexane	7.25	84	2365m	0.040	ppbv	
31) cis-1,2-Dichloroethene	5.64	61	6380m	0.085	ppbv	
32) 1,1,1-Trichloroethane	6.62	97	12261m	0.099	ppbv	
34) 2-Butanone	5.35	43	8564	0.080	ppbv	96
35) Carbon Tetrachloride	7.13	117	12398m	0.098	ppbv	
36) Benzene	7.00	78	10914m	0.073	ppbv	
37) 1,2-Dichloroethane	6.41	62	9778m	0.097	ppbv	
38) Trichloroethene	7.96	130	4851m	0.086	ppbv	
39) 1,2-Dichloropropane	7.73	63	5757m	0.098	ppbv	
41) Tetrahydrofuran	6.19	42	3483m	0.059	ppbv	
42) Bromodichloromethane	7.92	83	12740m	0.093	ppbv	
43) Methyl Methacrylate	8.15	69	3068m	0.050	ppbv	
44) 2,2,4-Trimethylpentane	7.99	57	13737	0.052	ppbv #	73
45) t-1,3-Dichloropropene	9.41	75	3801m	0.051	ppbv	
46) cis-1,3-Dichloropropene	8.83	75	4832m	0.055	ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) 1,1,2-Trichloroethane	9.61	97	6513m	0.098	ppbv	
48) Dibromochloromethane	10.45	129	8021m	0.071	ppbv	
49) Bromoform	13.19	173	6570	0.061	ppbv	91
50) 4-Methyl-2-Pentanone	8.90	43	10197m	0.065	ppbv	
51) 2-Hexanone	10.31	43	6101m	0.052	ppbv	
52) Tetrachloroethene	11.36	164	4669m	0.082	ppbv	
53) Toluene	9.94	91	8491m	0.049	ppbv	
54) 1,2-Dibromoethane	10.75	107	7616m	0.073	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.28	131	6793m	0.082	ppbv	
57) Chlorobenzene	12.29	112	14457m	0.103	ppbv	
58) Ethyl Benzene	12.86	91	11789	0.049	ppbv	96
59) m/p-Xylene	13.13	91	22447m	0.104	ppbv	
60) o-Xylene	13.84	91	10432m	0.050	ppbv	
61) Styrene	13.69	104	6124m	0.043	ppbv	
62) Isopropylbenzene	14.82	105	18666	0.063	ppbv	90
63) 1,1,2,2-Tetrachloroethane	13.83	83	14361m	0.094	ppbv	
64) n-propylbenzene	15.72	120	2748m	0.037	ppbv	
65) tert-Butylbenzene	16.90	119	8576m	0.033	ppbv	
67) sec-Butylbenzene	17.46	105	17407m	0.047	ppbv	
69) p-Isopropyltoluene	17.82	119	10269m	0.034	ppbv	
70) n-Butylbenzene	18.71	91	13775m	0.043	ppbv	
71) 2-Chlorotoluene	15.61	91	11913m	0.053	ppbv	
72) 4-Ethyltoluene	16.00	105	9372m	0.040	ppbv	
73) 1,3,5-Trimethylbenzene	16.16	105	8875m	0.040	ppbv	
74) 1,2,4-Trimethylbenzene	16.92	105	9484m	0.040	ppbv	
75) 1,3-Dichlorobenzene	17.16	146	14612m	0.099	ppbv	
76) 1,4-Dichlorobenzene	17.30	146	10222m	0.071	ppbv	
77) 1,2-Dichlorobenzene	17.99	146	8524m	0.061	ppbv	
78) Hexachloro-1,3-Butadiene	23.54	225	10465m	0.112	ppbv	
81) 1,2,4-Trichlorobenzene	22.14	180	4259m	0.037	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033606.D

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ClientSampleId :

MDL-MDL-AIR-03-QT2-2019

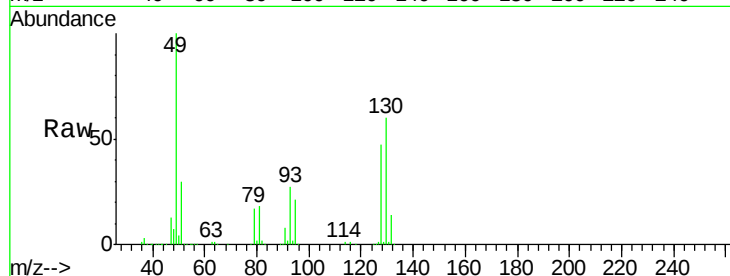
Tot Ion: 49 Resp: 761902

Ion Ratio Lower Upper

49 100

128 49.2 24.0 72.0

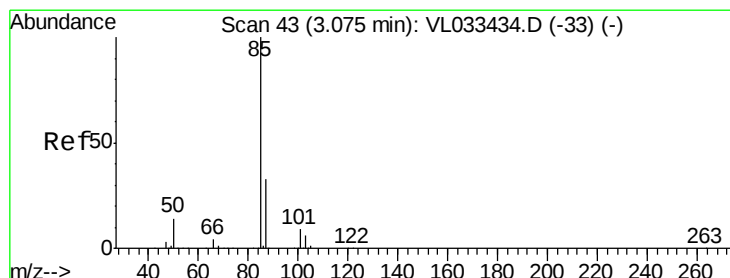
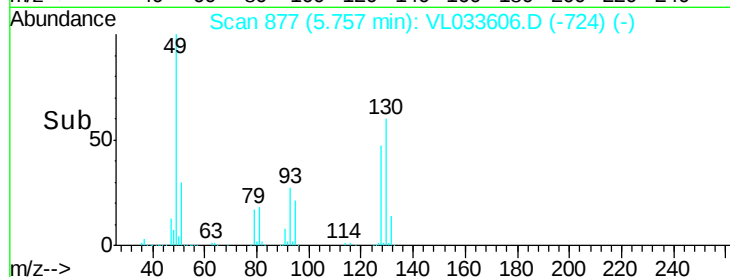
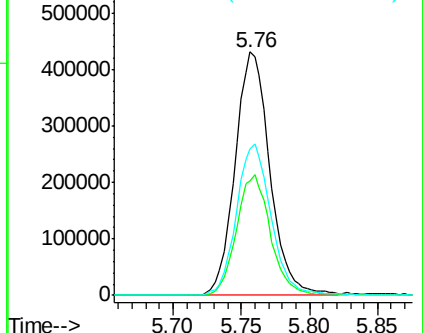
130 62.5 31.2 93.6



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: 0.154 ppbv m

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033606.D

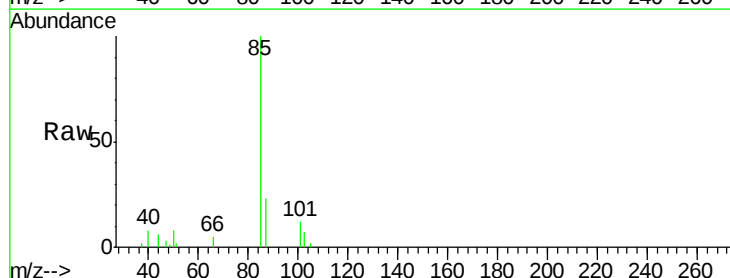
Acq: 17 Apr 2019 17:31

Tgt Ion: 85 Resp: 17105

Ion Ratio Lower Upper

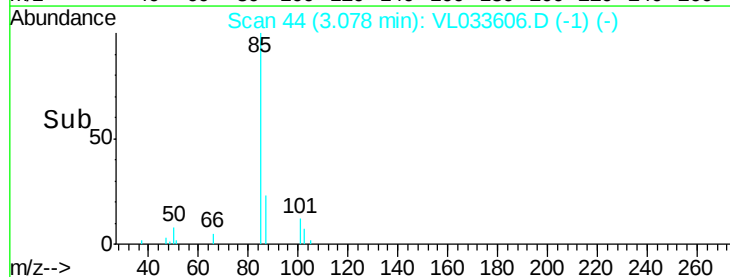
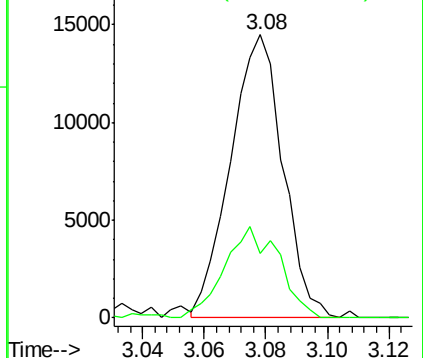
85 100

87 22.7 26.7 40.1#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.121 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

Instrument :

MSVOA_L

ClientSampleId :

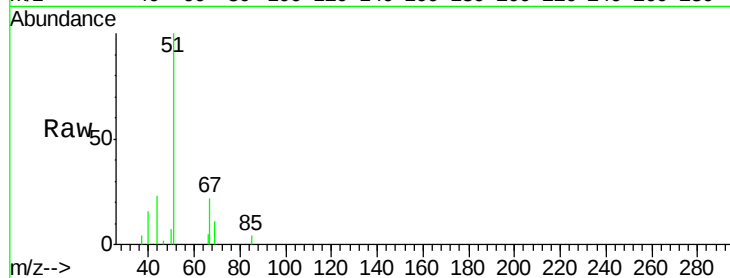
MDL-MDL-AIR-03-QT2-2019

Tot Ion: 51 Resp: 10642

Ion Ratio Lower Upper

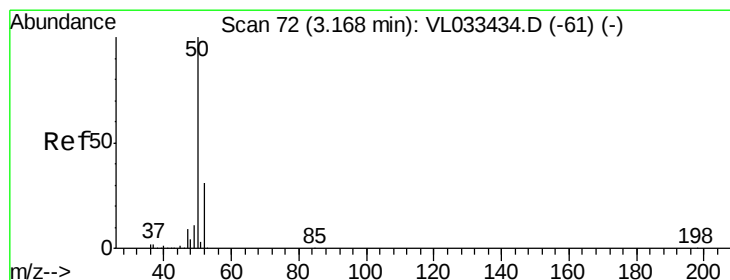
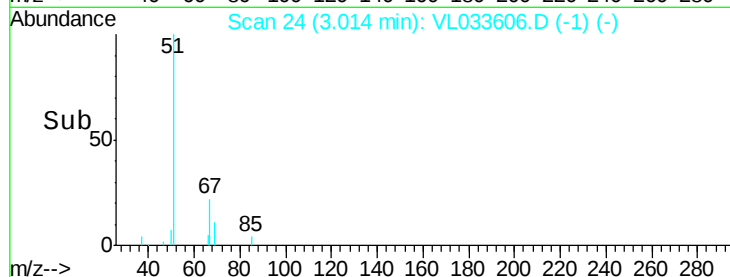
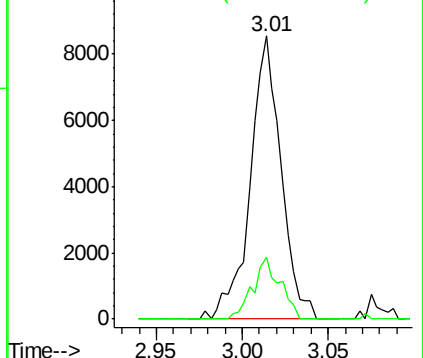
51 100

67 19.2 15.7 23.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.118 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033606.D

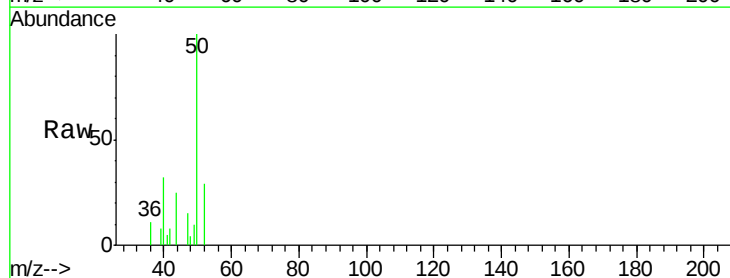
Acq: 17 Apr 2019 17:31

Tgt Ion: 50 Resp: 5454

Ion Ratio Lower Upper

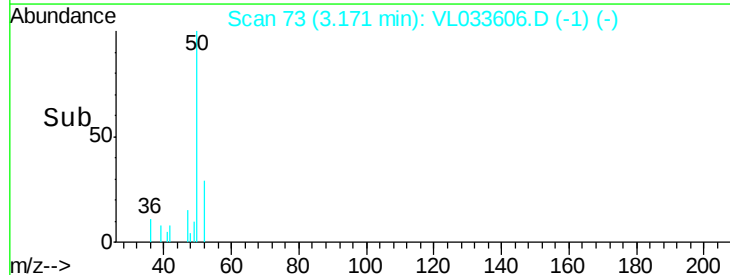
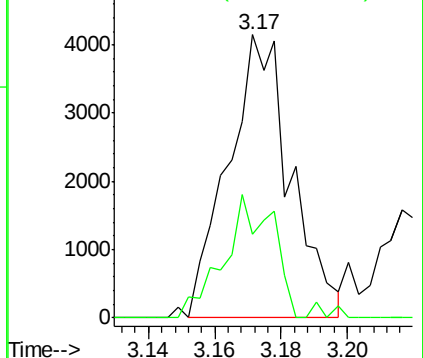
50 100

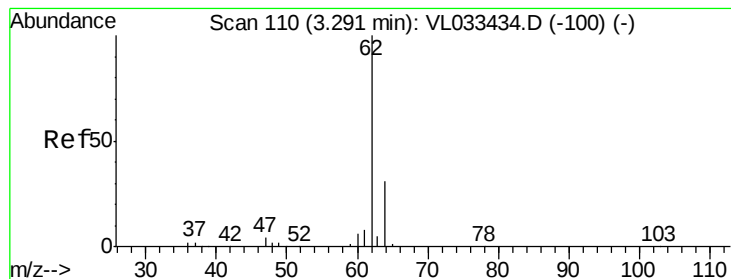
52 25.0 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.101 ppbv

RT: 3.30 min Scan# 112

Delta R.T. 0.01 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

Instrument :

MSVOA_L

ClientSampleId :

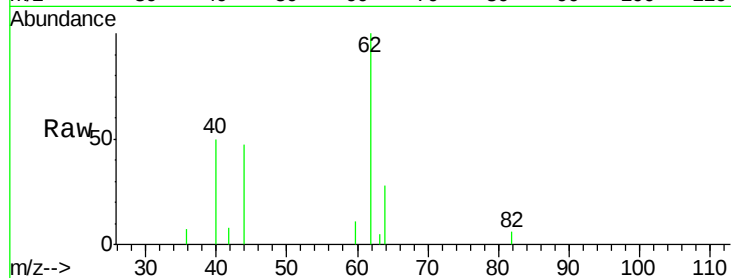
MDL-MDL-AIR-03-QT2-2019

Tot Ion: 62 Resp: 4624

Ion Ratio Lower Upper

62 100

64 28.3 24.9 37.3



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.30

4000

3000

2000

1000

0

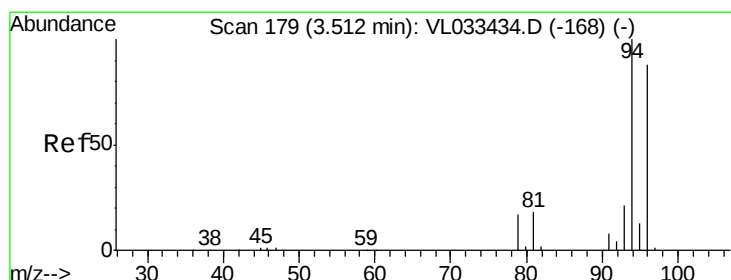
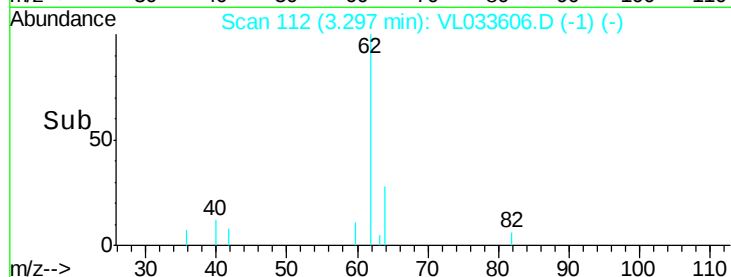
Time-->

3.26

3.28

3.30

3.32



#6

Bromomethane

Concen: 0.103 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033606.D

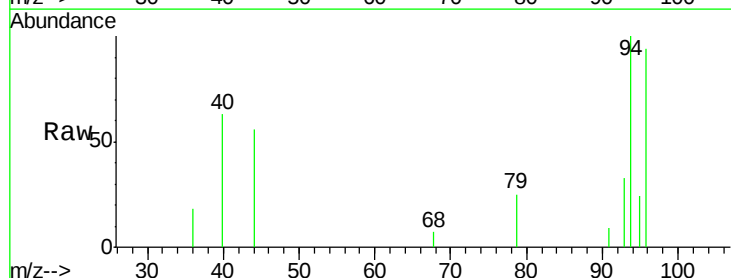
Acq: 17 Apr 2019 17:31

Tgt Ion: 94 Resp: 3014

Ion Ratio Lower Upper

94 100

96 94.2 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.51

2500

2000

1500

1000

500

0

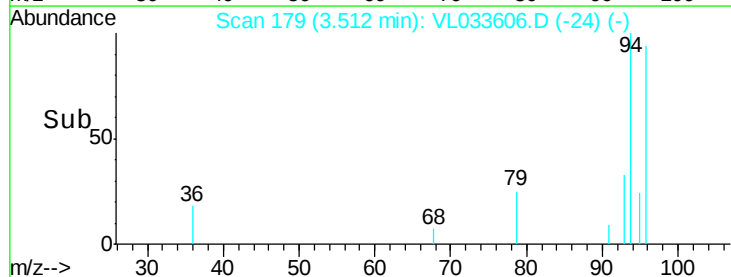
Time-->

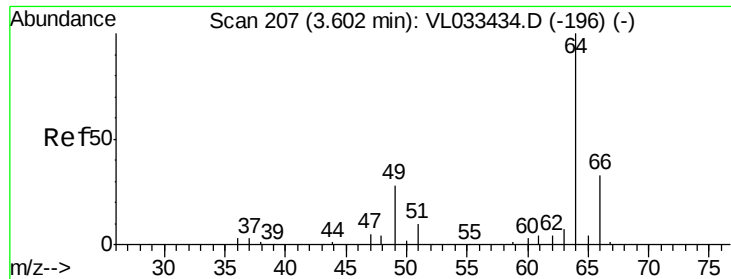
3.48

3.50

3.52

3.54





#7

Chloroethane

Concen: 0.125 ppbv m

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

Instrument :

MSVOA_L

ClientSampleId :

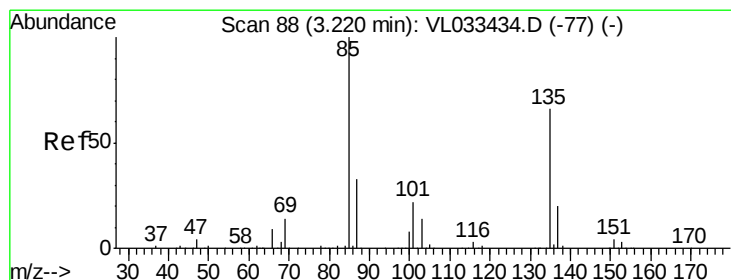
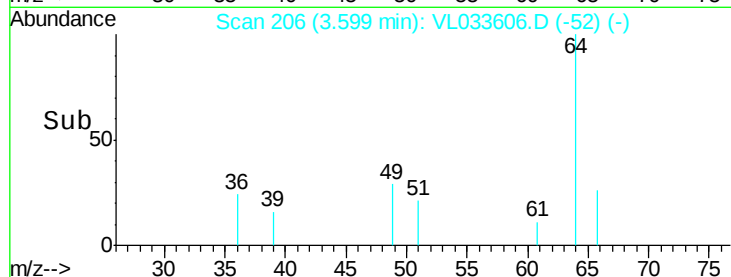
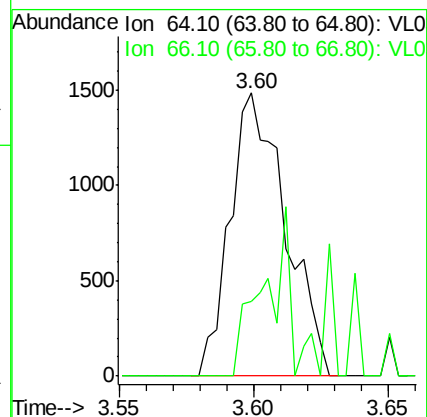
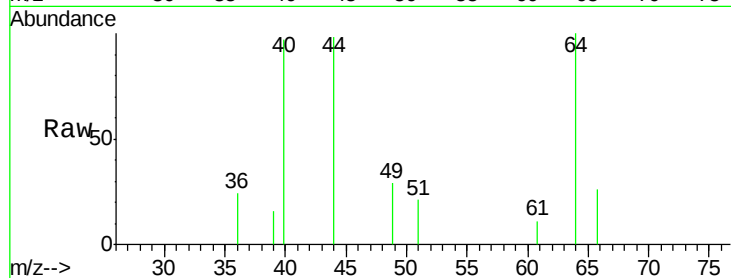
MDL-MDL-AIR-03-QT2-2019

Tot Ion: 64 Resp: 2126

Ion Ratio Lower Upper

64 100

66 26.4 26.7 40.1#



#8

Dichlorotetrafluoroethane

Concen: 0.113 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033606.D

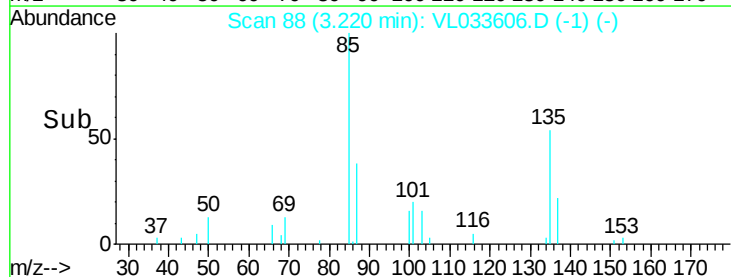
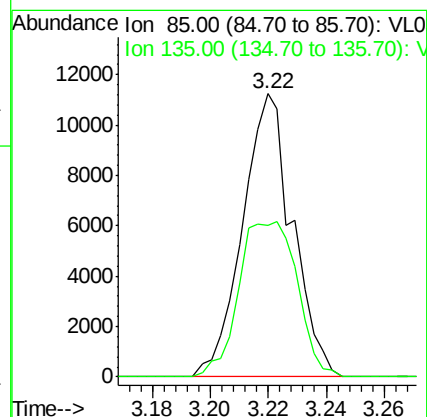
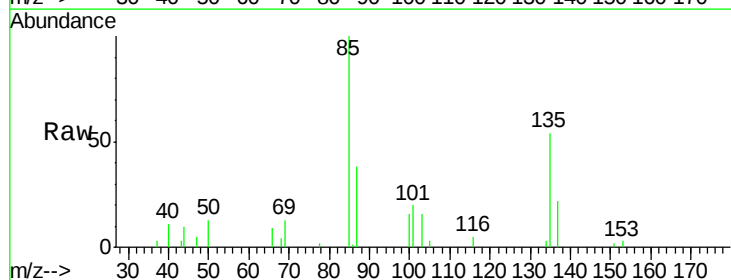
Acq: 17 Apr 2019 17:31

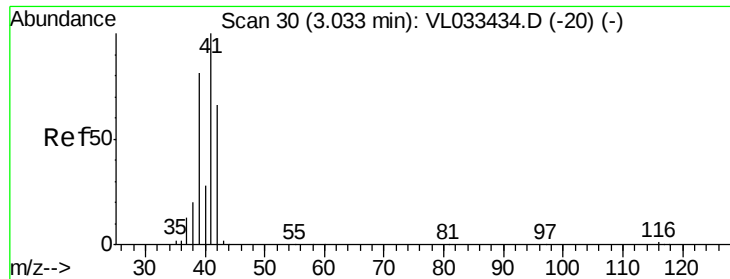
Tgt Ion: 85 Resp: 13384

Ion Ratio Lower Upper

85 100

135 64.6 54.0 81.0





#9

Propene

Concen: 0.098 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

Instrument :

MSVOA_L

ClientSampleId :

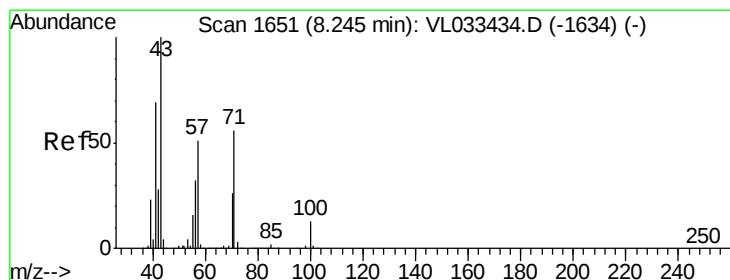
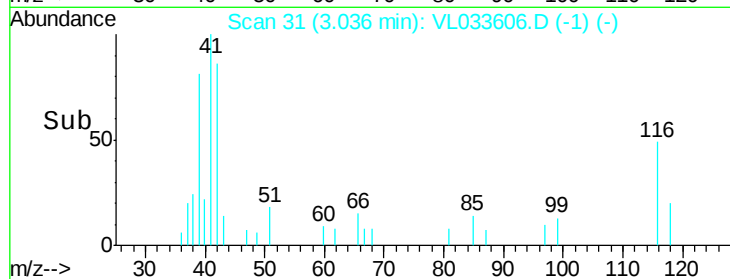
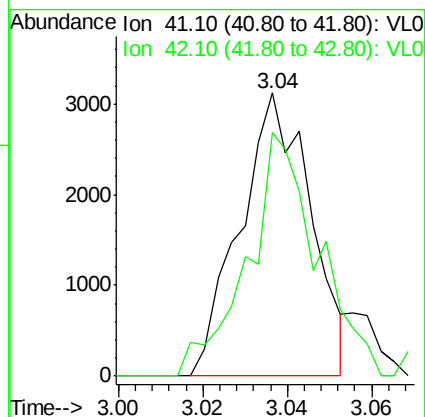
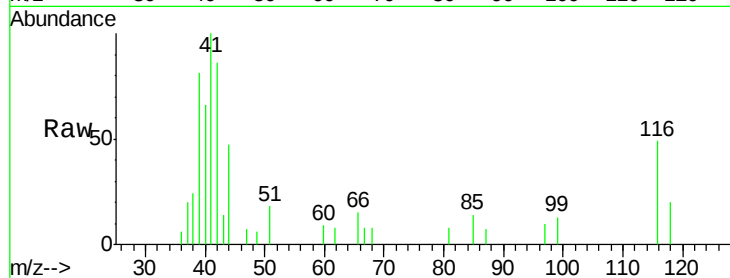
MDL-MDL-AIR-03-QT2-2019

Tot Ion: 41 Resp: 3627

Ion Ratio Lower Upper

41 100

42 86.8 53.9 80.9#



#10

Heptane

Concen: 0.059 ppbv m

RT: 8.25 min Scan# 1652

Delta R.T. 0.00 min

Lab File: VL033606.D

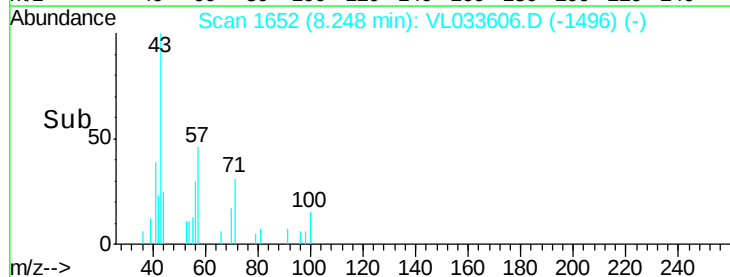
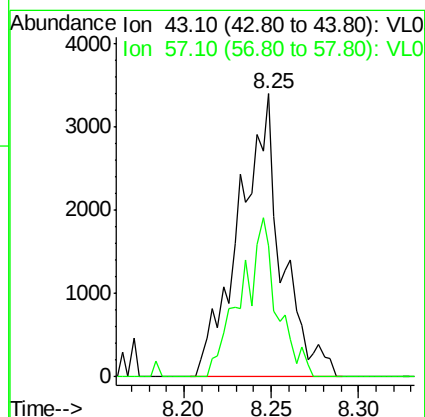
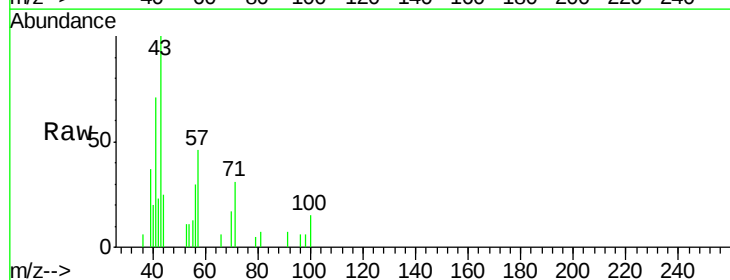
Acq: 17 Apr 2019 17:31

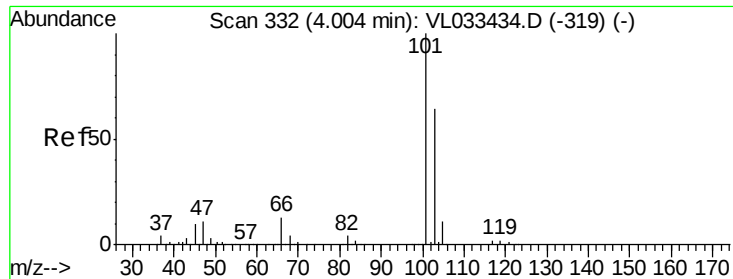
Tgt Ion: 43 Resp: 5770

Ion Ratio Lower Upper

43 100

57 0.0 40.6 60.8#

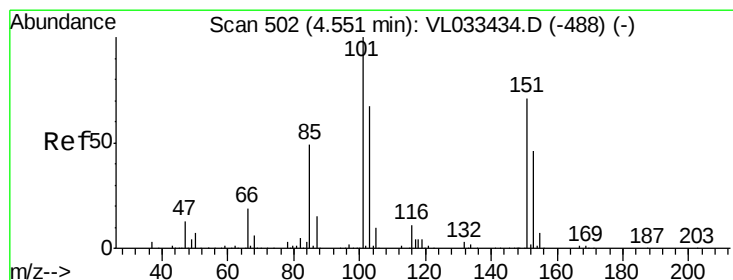
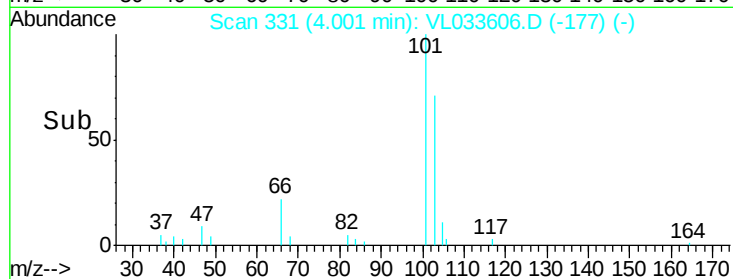
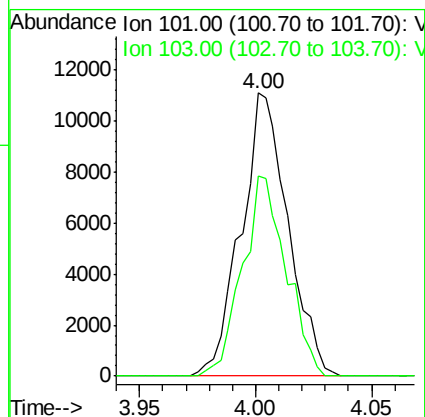
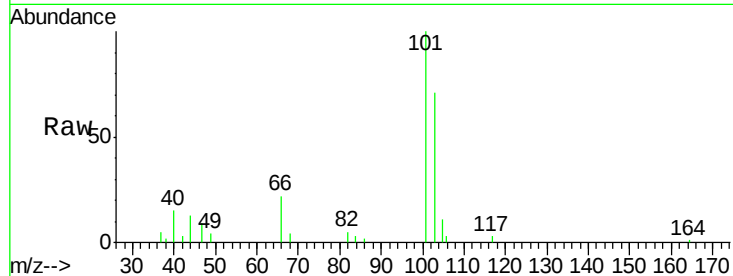




#11
 Trichlorofluoromethane
 Concen: 0.114 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. -0.00 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

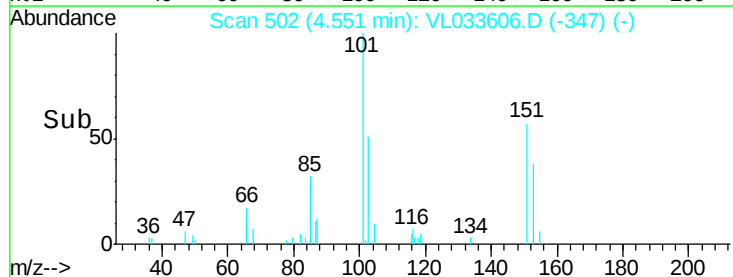
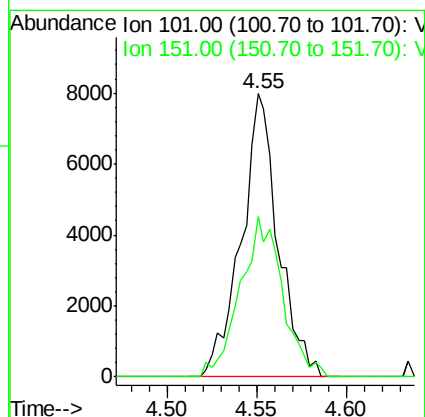
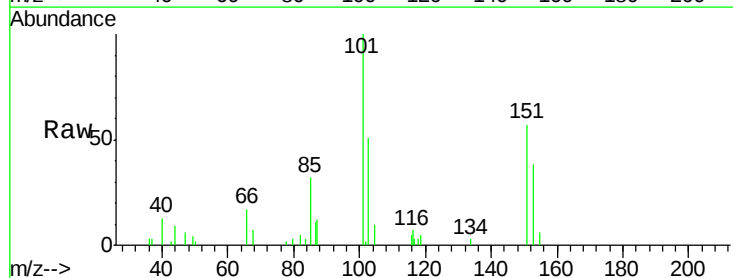
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT2-2019

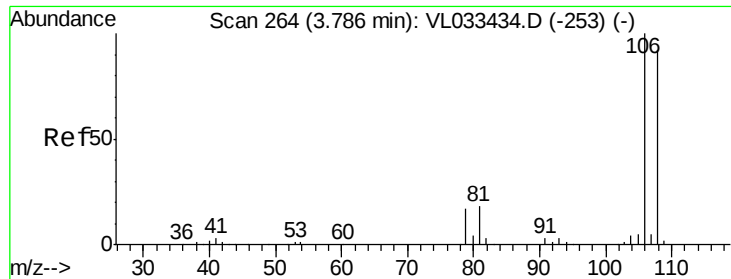
Tot Ion:101 Resp: 15613
 Ion Ratio Lower Upper
 101 100
 103 70.6 51.3 76.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.124 ppbv m
 RT: 4.55 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

Tgt Ion:101 Resp: 11398
 Ion Ratio Lower Upper
 101 100
 151 64.4 57.7 86.5





#14

Bromoethene

Concen: 0.095 ppbv

RT: 3.79 min Scan# 266

Delta R.T. 0.01 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT2-2019

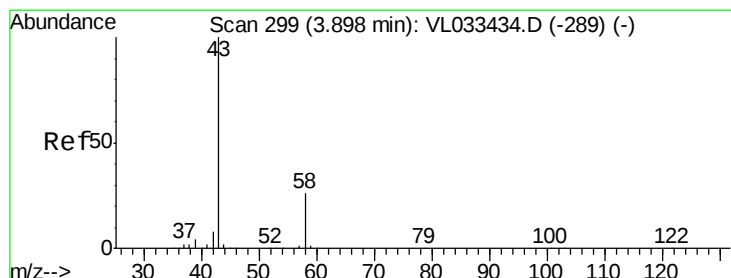
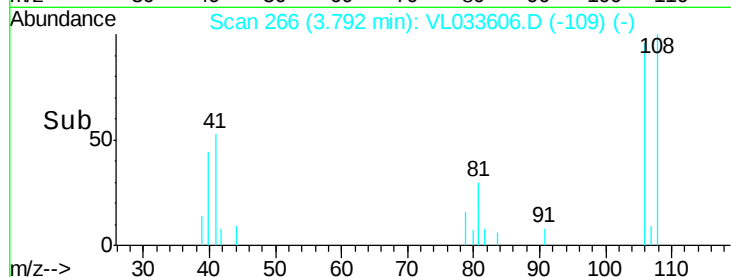
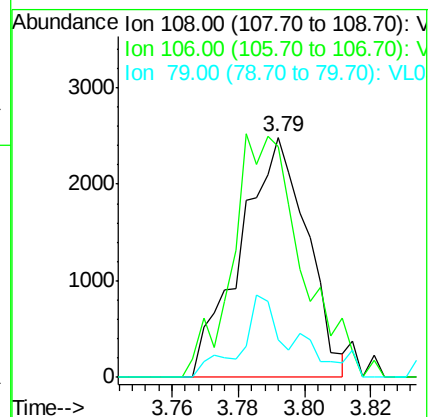
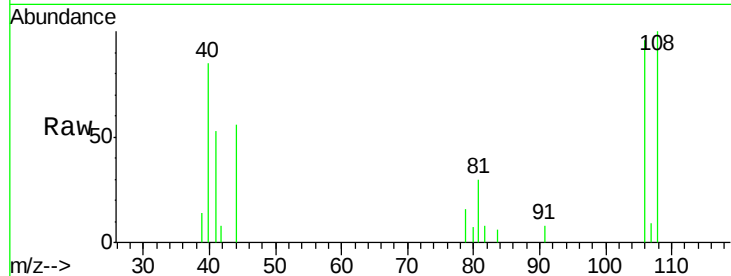
Tot Ion:108 Resp: 3486

Ion Ratio Lower Upper

108 100

106 104.9 86.4 129.6

79 27.7 15.8 23.8#



#15

Acetone

Concen: 0.197 ppbv

RT: 3.92 min Scan# 306

Delta R.T. 0.02 min

Lab File: VL033606.D

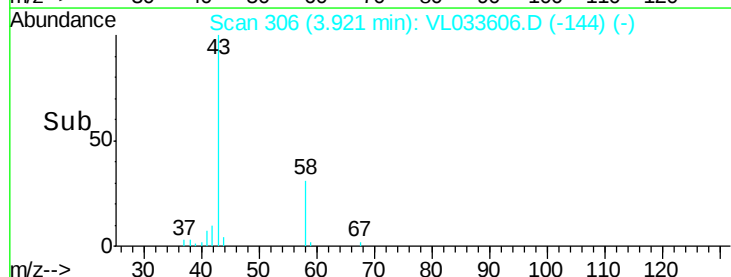
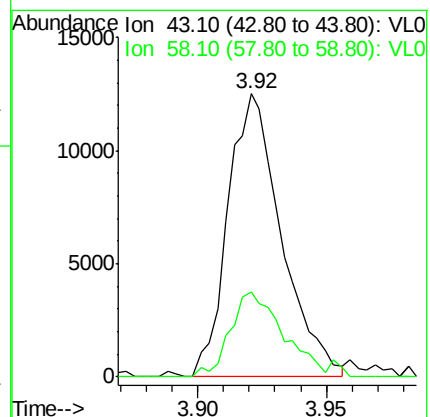
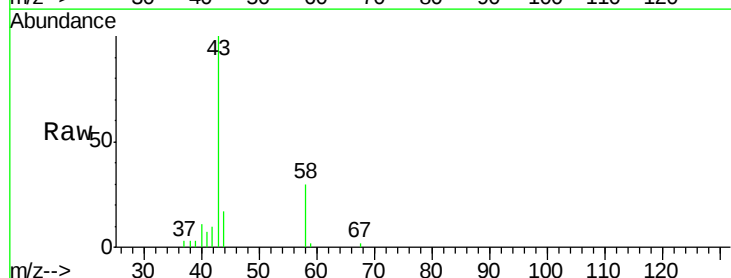
Acq: 17 Apr 2019 17:31

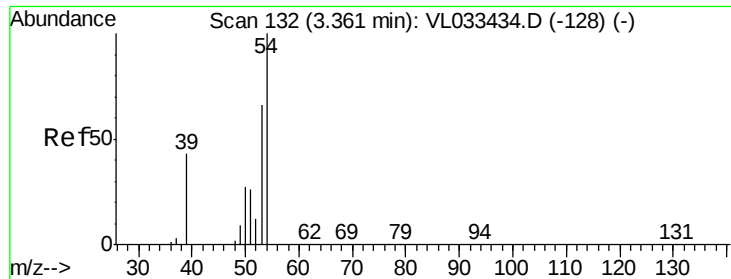
Tgt Ion: 43 Resp: 18032

Ion Ratio Lower Upper

43 100

58 30.9 20.5 30.7#

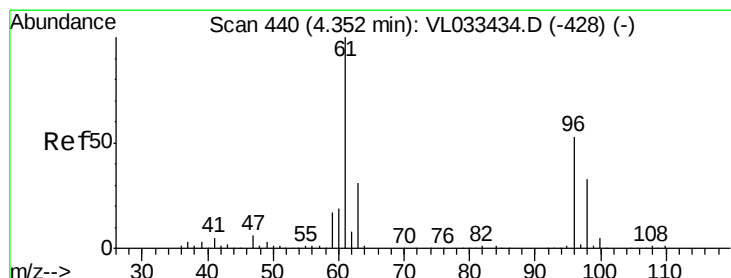
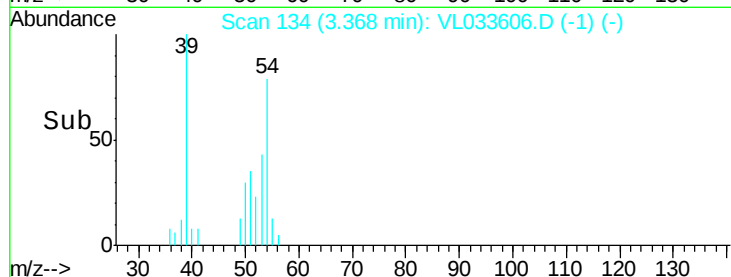
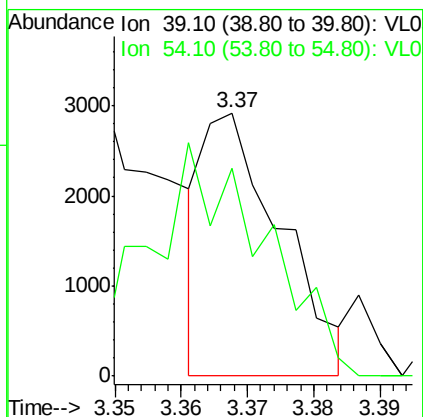
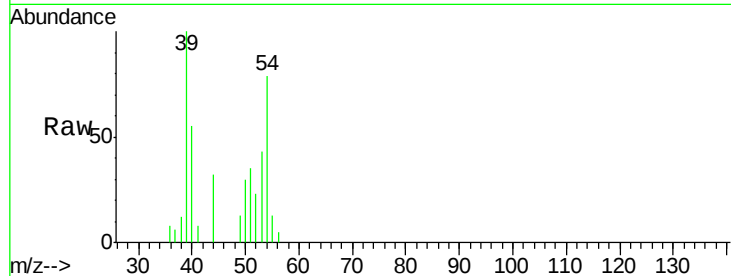




#16
 1,3-Butadiene
 Concen: 0.065 ppbv
 RT: 3.37 min Scan# 134
 Delta R.T. 0.01 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

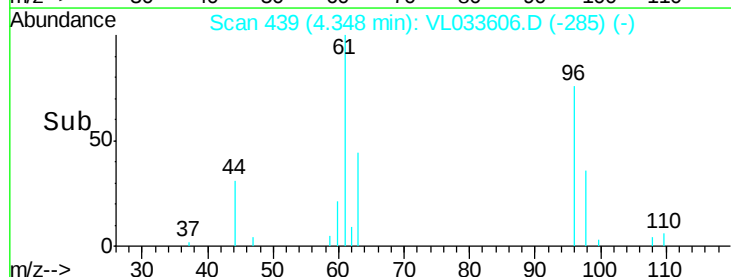
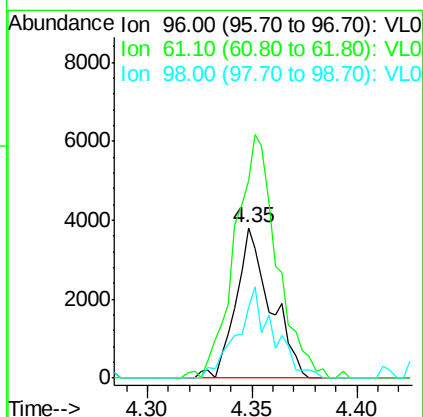
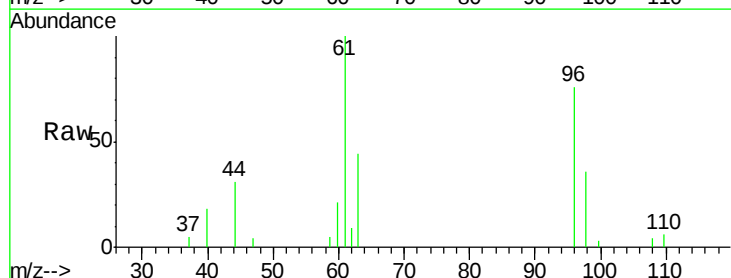
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT2-2019

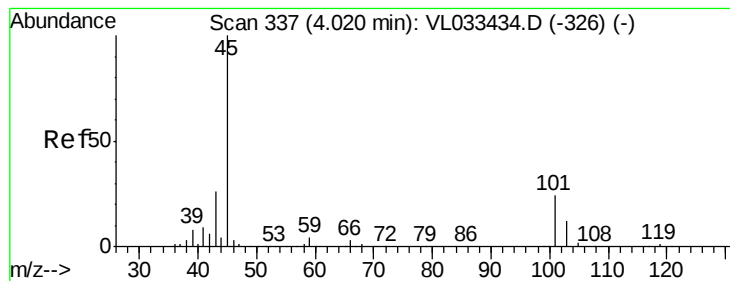
Tot Ion: 39 Resp: 2375
 Ion Ratio Lower Upper
 39 100
 54 135.5 69.4 104.2#



#18
 1,1-Dichloroethene
 Concen: 0.112 ppbv m
 RT: 4.35 min Scan# 439
 Delta R.T. -0.00 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

Tgt Ion: 96 Resp: 4433
 Ion Ratio Lower Upper
 96 100
 61 131.0 149.8 224.6#
 98 46.6 48.7 73.1#





#19

Isopropyl Alcohol

Concen: 0.121 ppbv

RT: 4.05 min Scan# 346

Delta R.T. 0.03 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

Instrument :

MSVOA_L

ClientSampleId :

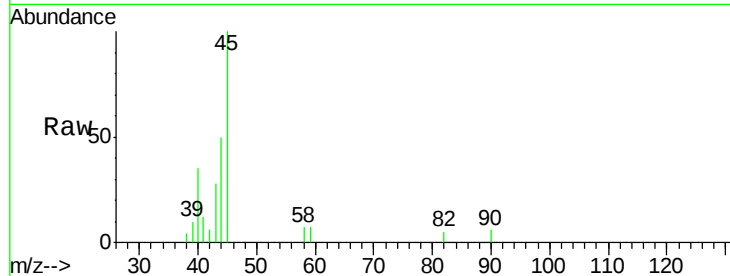
MDL-MDL-AIR-03-QT2-2019

Tot Ion: 45 Resp: 7019

Ion Ratio Lower Upper

45 100

58 4.5 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.05

5000

4000

3000

2000

1000

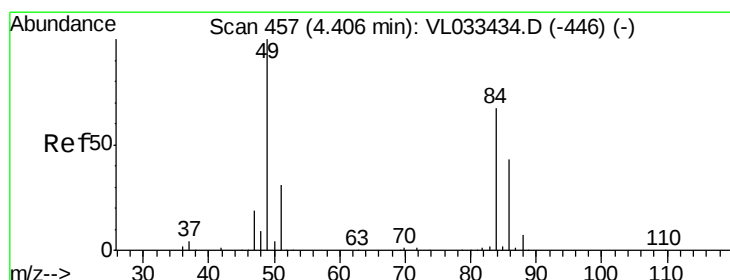
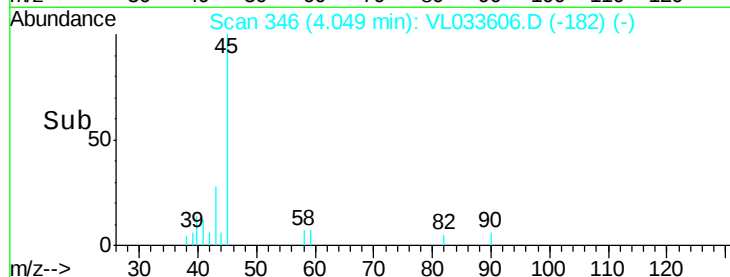
0

Time-->

4.00

4.05

4.10



#20

Methylene Chloride

Concen: 0.043 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

Tgt Ion: 84 Resp: 1672

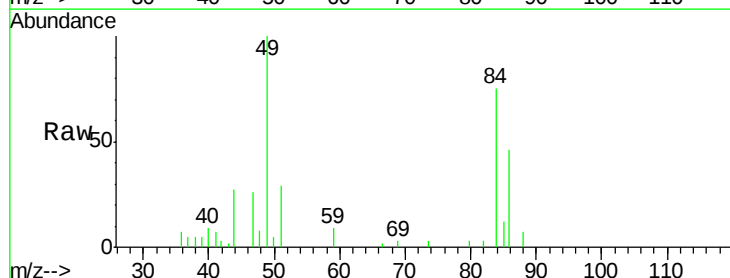
Ion Ratio Lower Upper

84 100

49 120.0 120.0 180.0

51 0.0 36.7 55.1#

86 43.6 51.9 77.9#



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

12000

10000

8000

6000

4000

2000

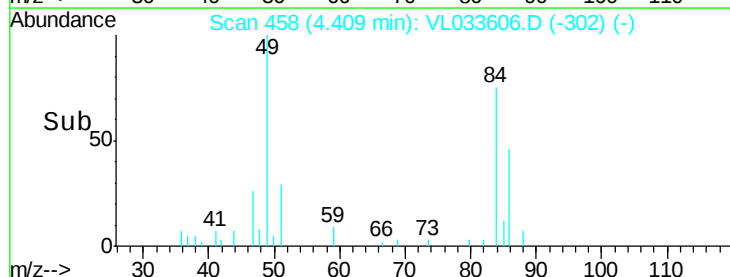
0

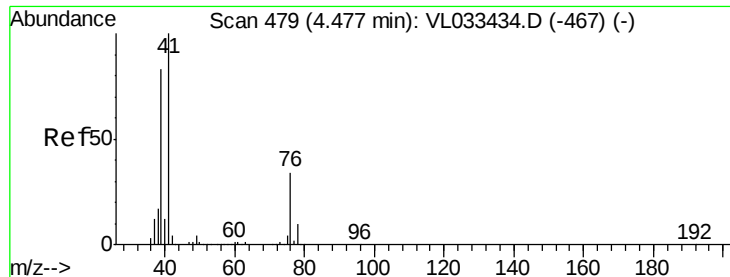
Time-->

4.40

4.41

4.42

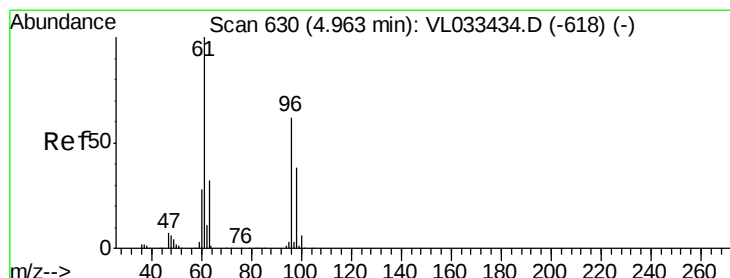
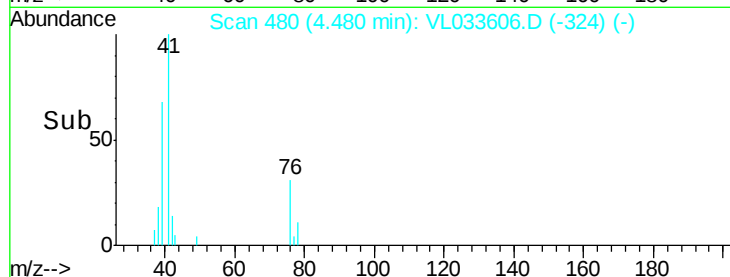
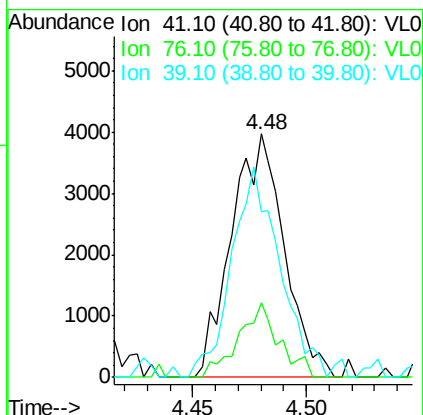
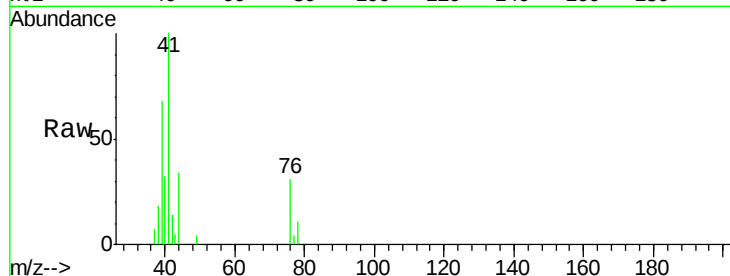




#21
 Allvl Chloride
 Concen: 0.111 ppbv m
 RT: 4.48 min Scan# 480
 Delta R.T. 0.00 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

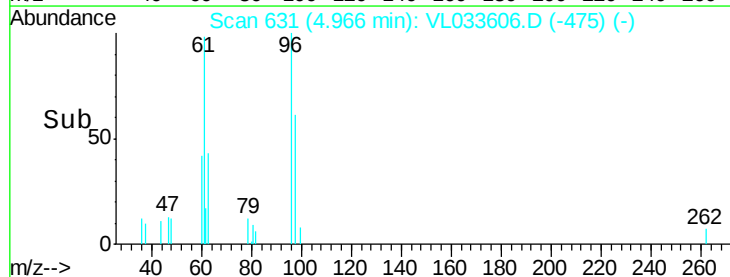
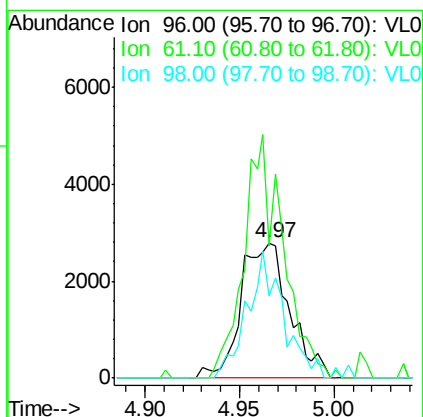
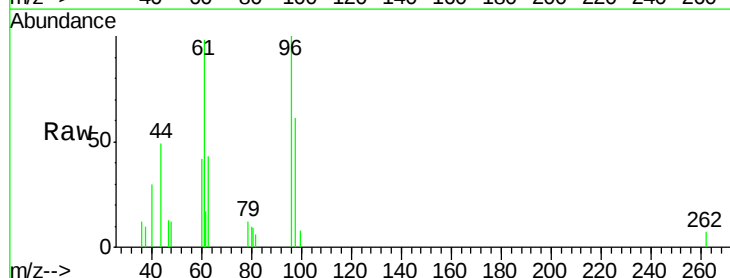
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT2-2019

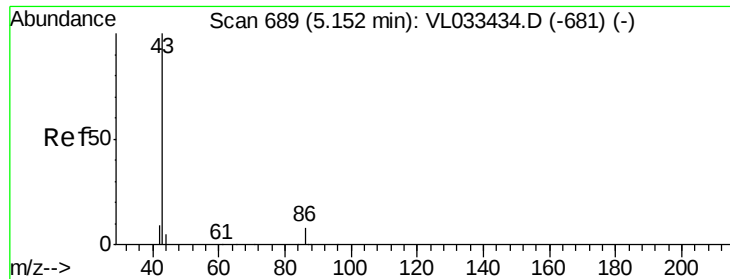
Tot Ion: 41 Resp: 6403
 Ion Ratio Lower Upper
 41 100
 76 0.0 25.4 38.2#
 39 0.0 65.3 97.9#



#22
 trans-1,2-Dichloroethene
 Concen: 0.120 ppbv m
 RT: 4.97 min Scan# 631
 Delta R.T. 0.00 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

Tgt Ion: 96 Resp: 4939
 Ion Ratio Lower Upper
 96 100
 61 97.8 128.9 193.3#
 98 60.6 49.5 74.3





#23

Vinyl Acetate

Concen: 0.094 ppbv m

RT: 5.16 min Scan# 691

Delta R.T. 0.01 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT2-2019

Tot Ion: 43 Resp: 12213

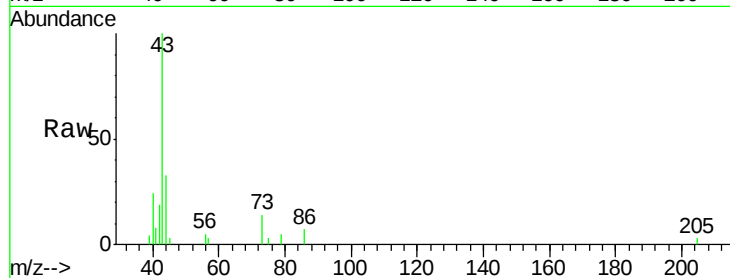
Ion Ratio Lower Upper

43 100

86 7.1 5.6 8.4

42 19.2 8.0 12.0#

44 33.4 3.9 5.9#

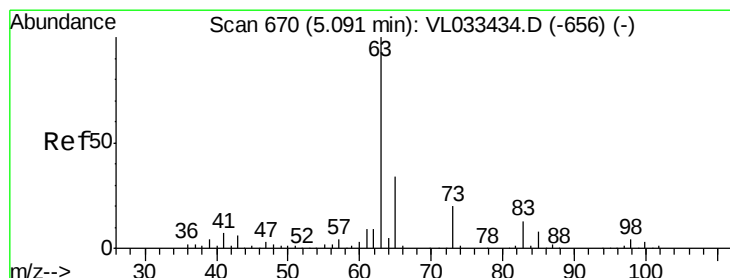
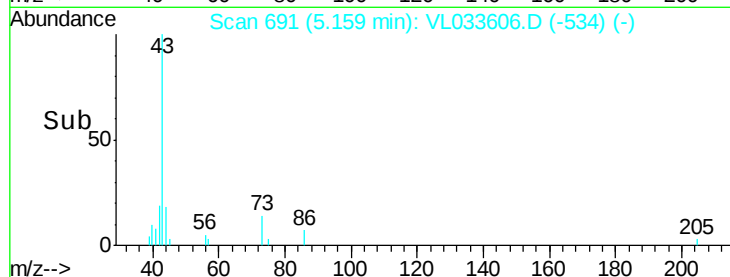
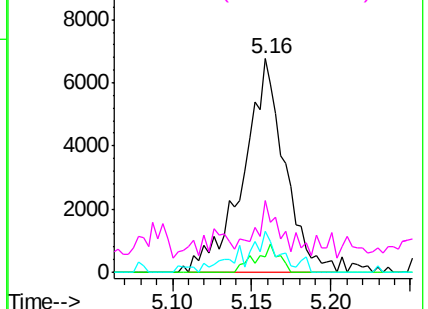


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.107 ppbv

RT: 5.09 min Scan# 669

Delta R.T. -0.00 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

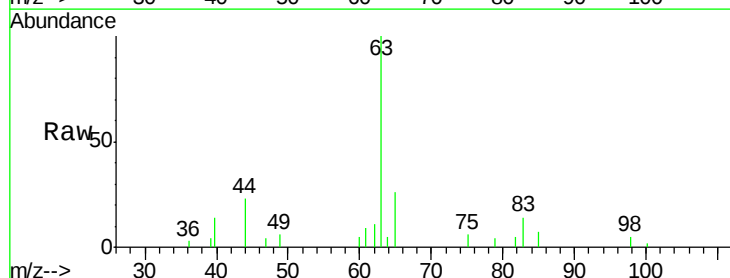
Tgt Ion: 63 Resp: 10623

Ion Ratio Lower Upper

63 100

98 5.0 2.2 6.6

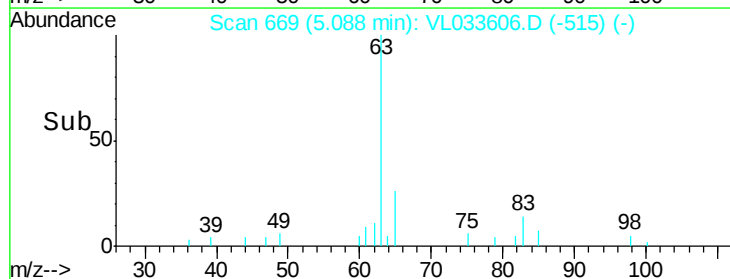
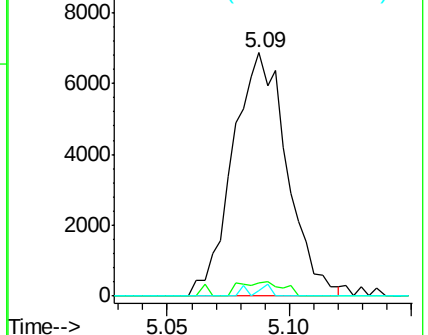
100 2.2 1.5 4.4

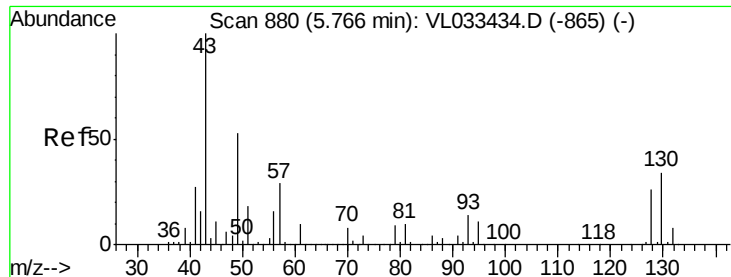


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

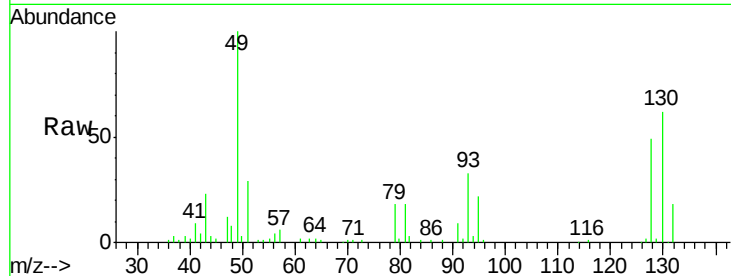




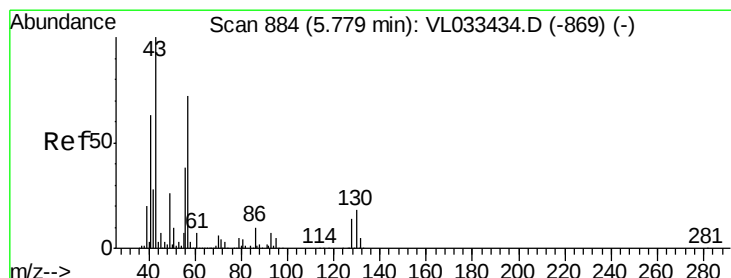
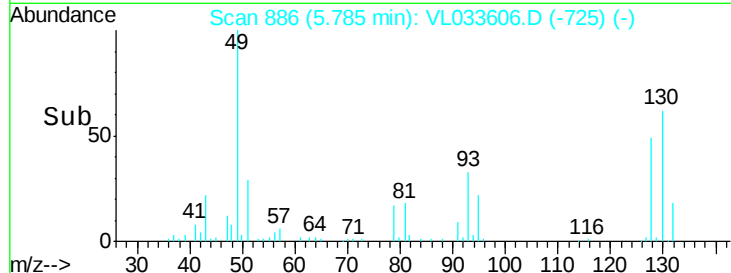
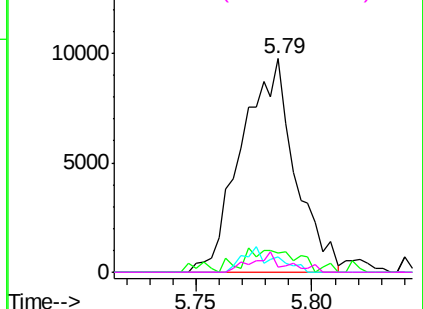
#25
Ethyl Acetate
Concen: 0.092 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.02 min
Lab File: VL033606.D
Acq: 17 Apr 2019 17:31

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

Tot Ion:	43	Resp:	15649
Ion	Ratio	Lower	Upper
43	100		
45	13.1	7.8	11.6#
61	7.0	7.3	10.9#
70	5.8	5.6	8.4

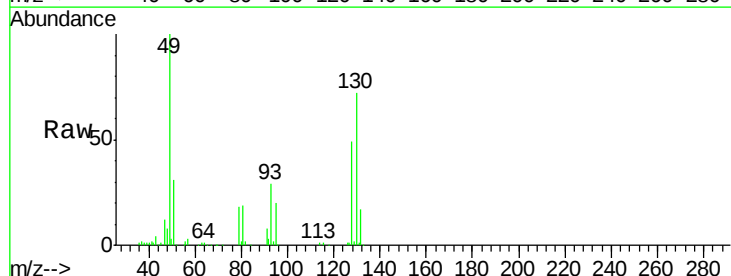


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

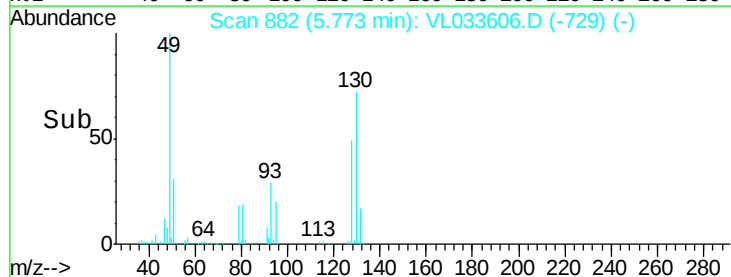
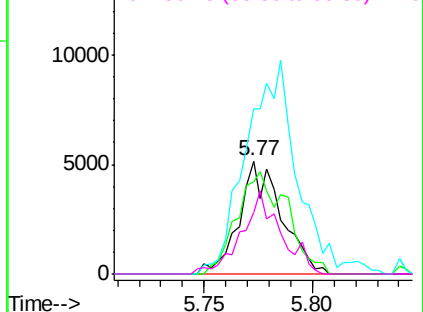


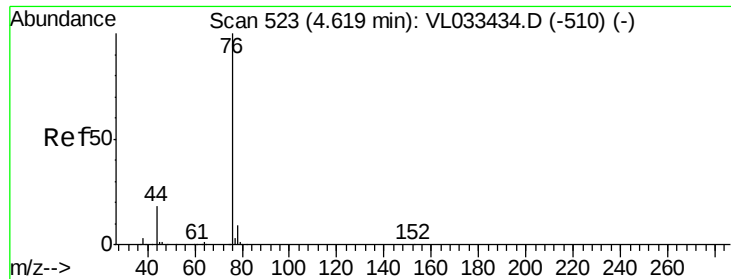
#26
Hexane
Concen: 0.093 ppbv m
RT: 5.77 min Scan# 882
Delta R.T. -0.01 min
Lab File: VL033606.D
Acq: 17 Apr 2019 17:31

Tgt Ion:	57	Resp:	7026
Ion	Ratio	Lower	Upper
57	100		
41	0.0	70.7	106.1#
43	0.0	182.6	274.0#
56	0.0	42.0	63.0#



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: 0.093 ppbv m

RT: 4.62 min Scan# 525

Delta R.T. 0.01 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT2-2019

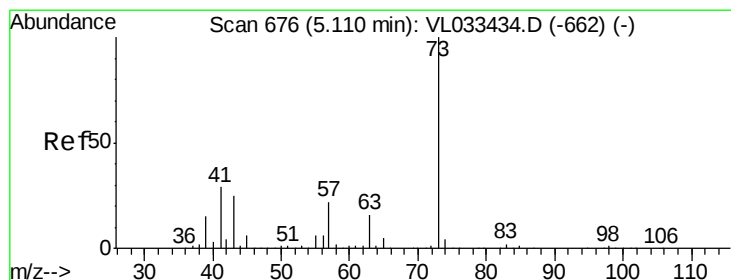
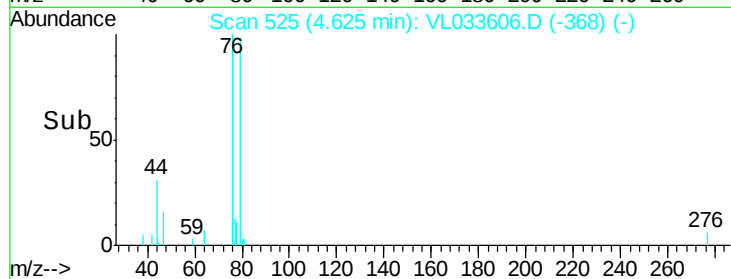
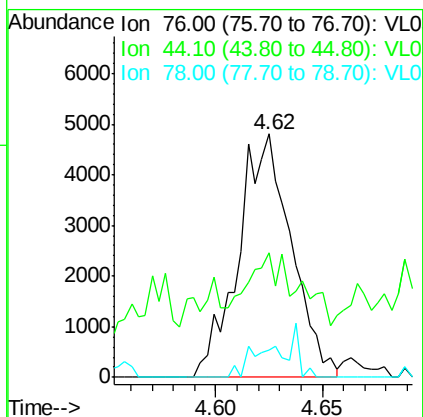
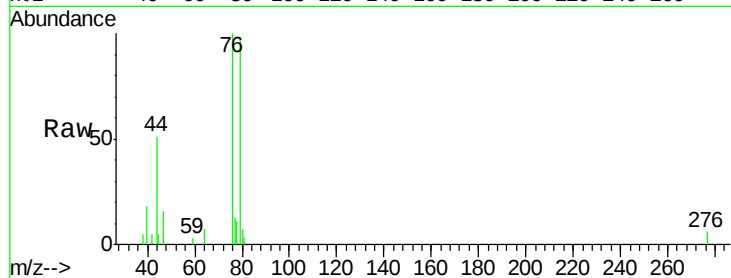
Tot Ion: 76 Resp: 8332

Ion Ratio Lower Upper

76 100

44 34.3 14.8 22.2#

78 11.3 7.6 11.4



#28

Methyl tert-Butyl Ether

Concen: 0.078 ppbv m

RT: 5.14 min Scan# 685

Delta R.T. 0.03 min

Lab File: VL033606.D

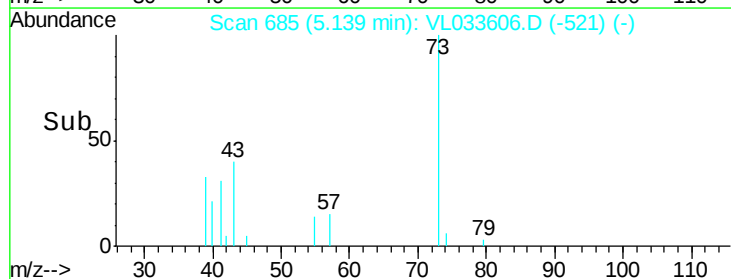
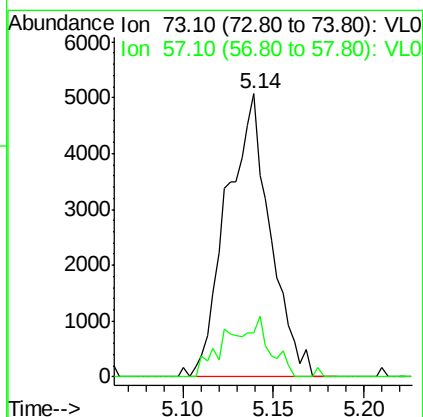
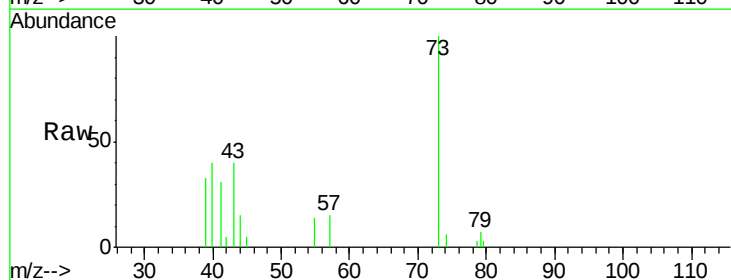
Acq: 17 Apr 2019 17:31

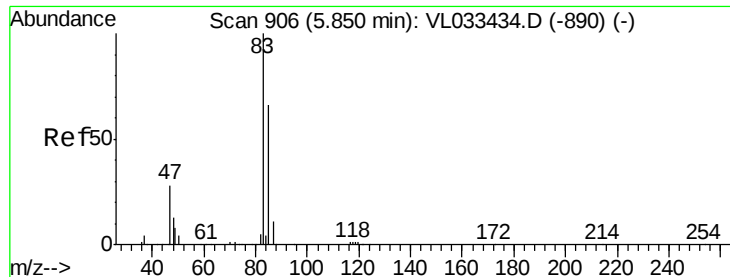
Tgt Ion: 73 Resp: 8441

Ion Ratio Lower Upper

73 100

57 0.0 17.4 26.2#





#29

Chloroform

Concen: 0.102 ppbv

RT: 5.85 min Scan# 905

Delta R.T. -0.00 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

Instrument :

MSVOA_L

ClientSampleId :

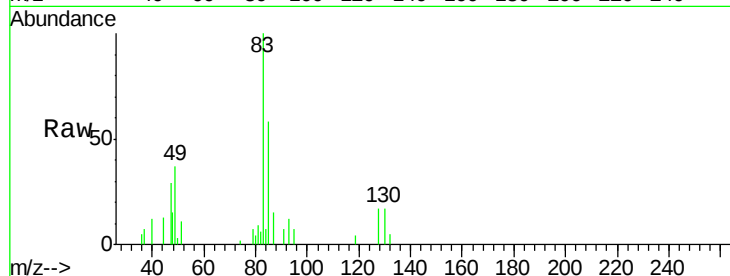
MDL-MDL-AIR-03-QT2-2019

Tot Ion: 83 Resp: 13168

Ion Ratio Lower Upper

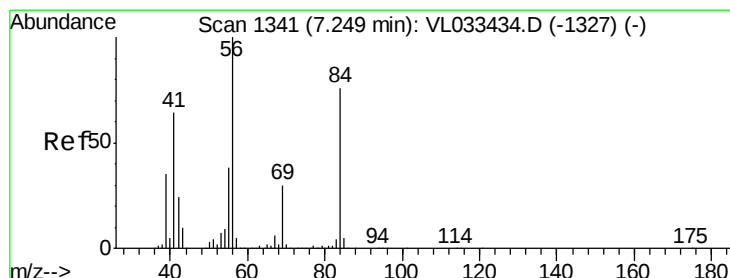
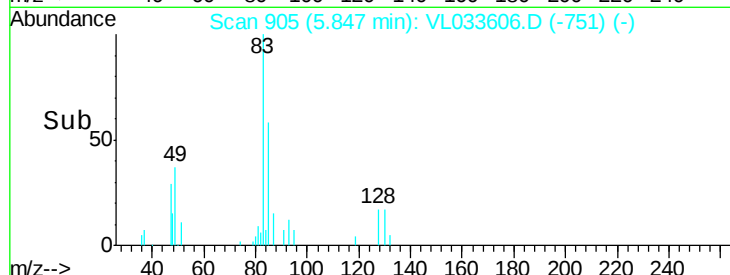
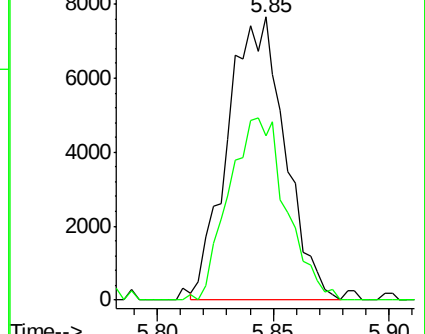
83 100

85 58.1 52.6 79.0



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 0.040 ppbv m

RT: 7.25 min Scan# 1343

Delta R.T. 0.01 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

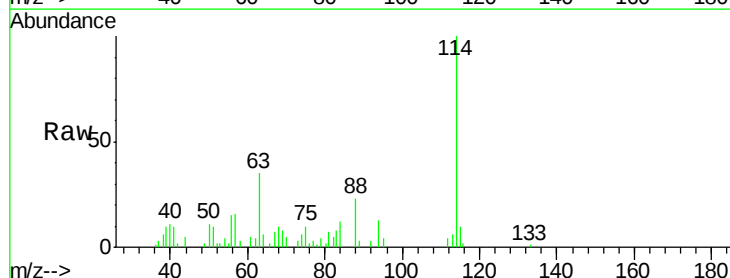
Tgt Ion: 84 Resp: 2365

Ion Ratio Lower Upper

84 100

56 0.0 109.7 164.5#

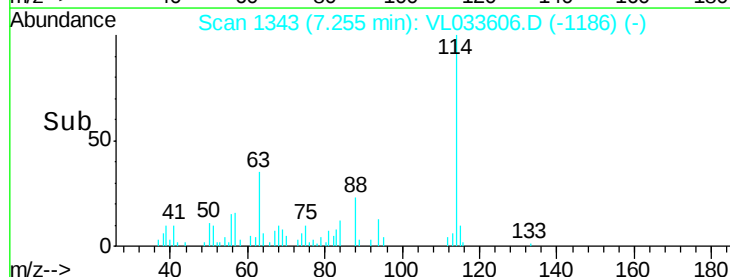
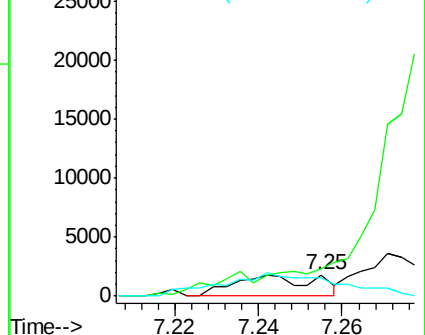
41 163.1 68.2 102.2#

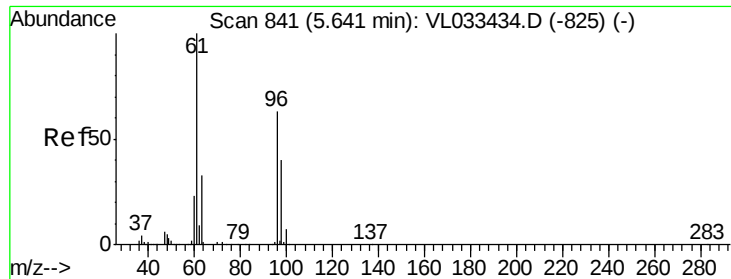


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0



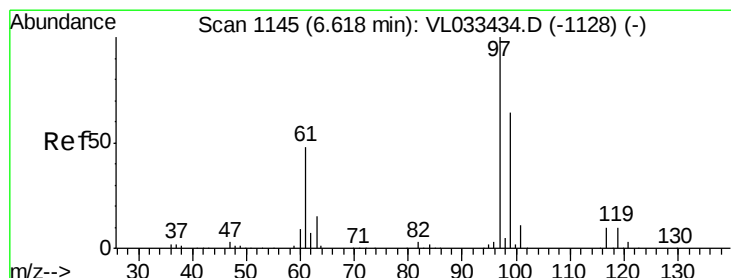
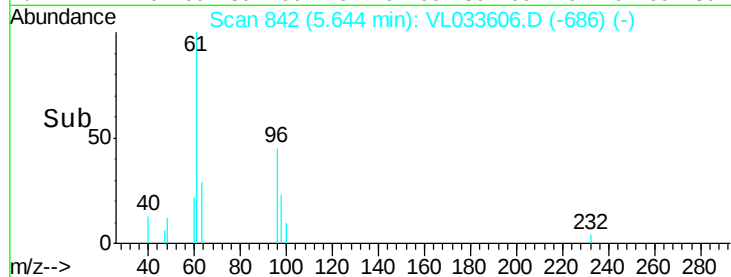
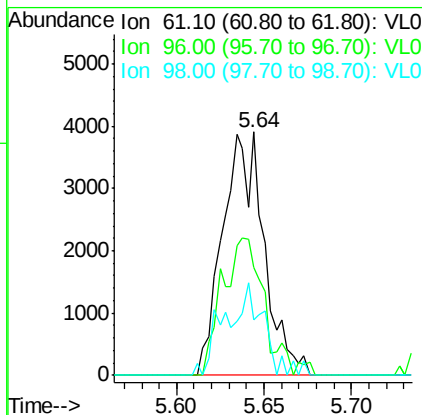
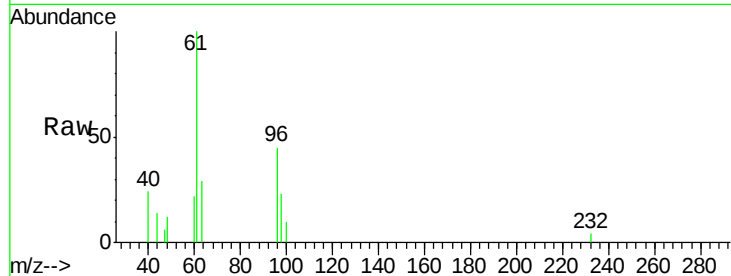


#31

cis-1,2-Dichloroethene
 Concen: 0.085 ppbv m
 RT: 5.64 min Scan# 842
 Delta R.T. 0.00 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT2-2019

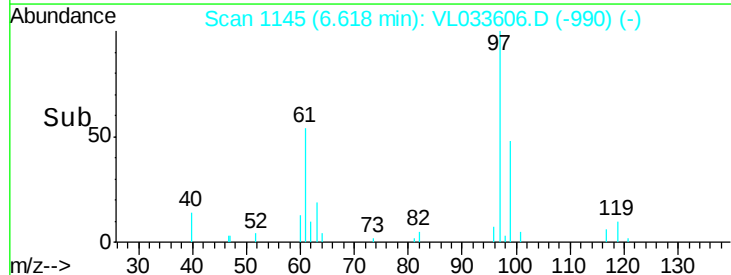
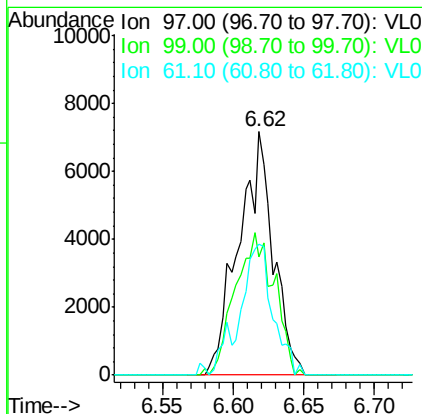
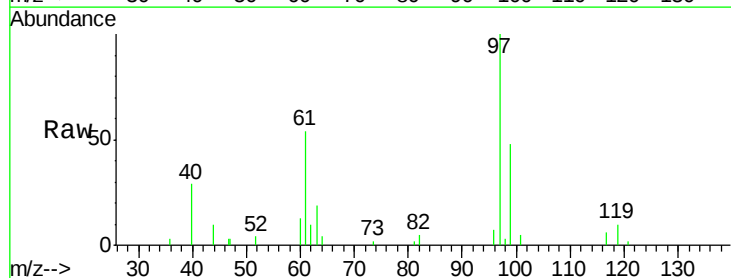
Tot Ion: 61 Resp: 6380
 Ion Ratio Lower Upper
 61 100
 96 44.5 50.6 76.0#
 98 22.7 32.2 48.2#

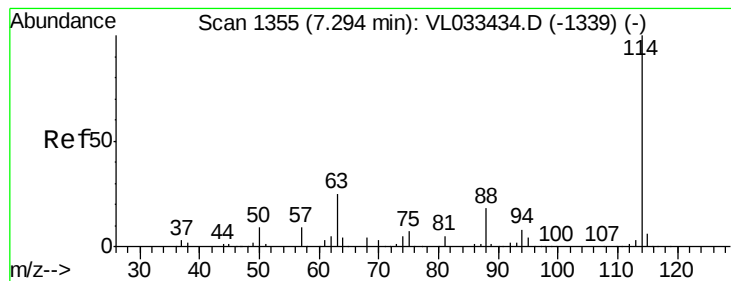


#32

1,1,1-Trichloroethane
 Concen: 0.099 ppbv m
 RT: 6.62 min Scan# 1145
 Delta R.T. -0.00 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

Tgt Ion: 97 Resp: 12261
 Ion Ratio Lower Upper
 97 100
 99 0.0 51.5 77.3#
 61 0.0 38.8 58.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.01 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT2-2019

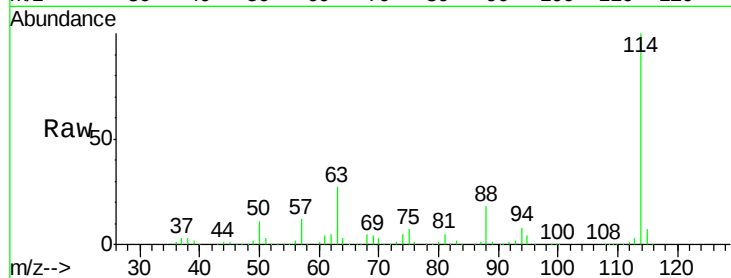
Tot Ion:114 Resp: 1789305

Ion Ratio Lower Upper

114 100

63 26.6 21.5 32.3

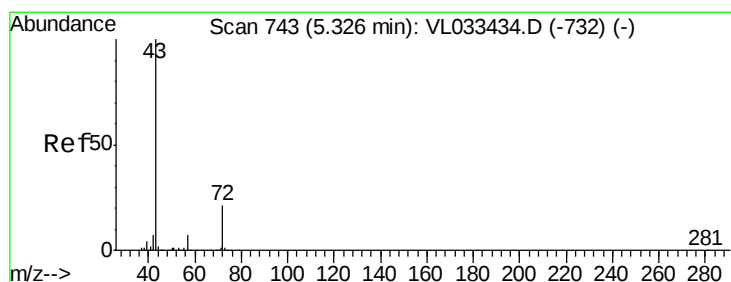
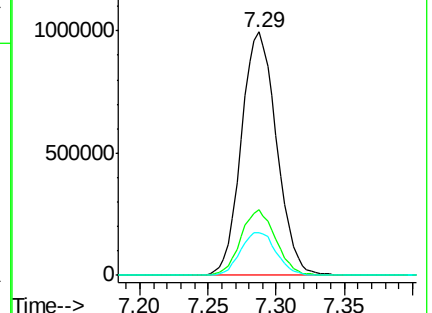
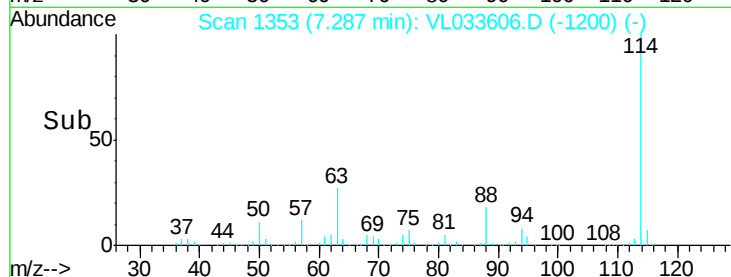
88 17.9 14.5 21.7



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.080 ppbv

RT: 5.35 min Scan# 751

Delta R.T. 0.03 min

Lab File: VL033606.D

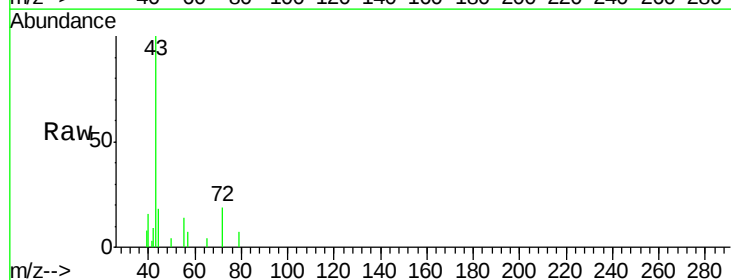
Acq: 17 Apr 2019 17:31

Tgt Ion: 43 Resp: 8564

Ion Ratio Lower Upper

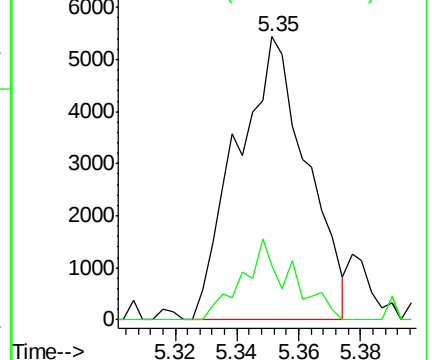
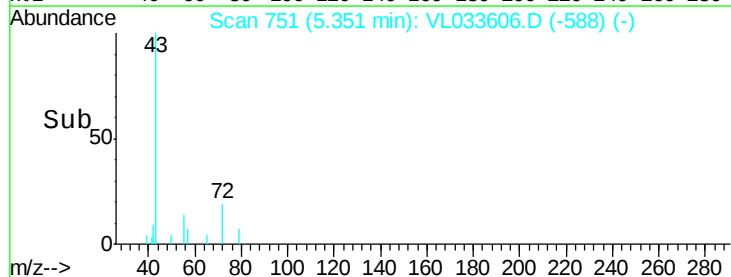
43 100

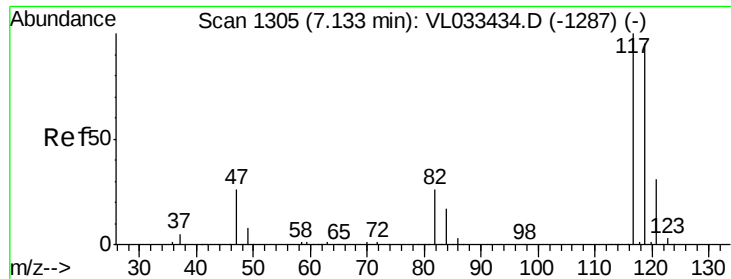
72 19.9 17.4 26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.098 ppbv m

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT2-2019

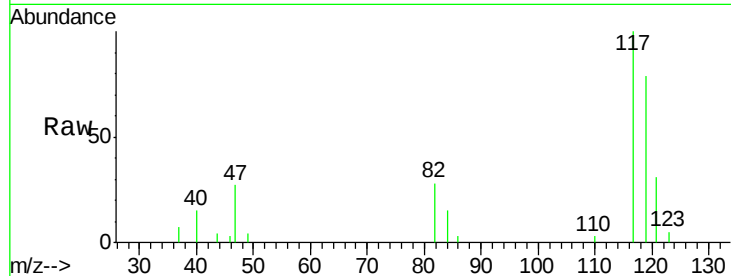
Tot Ion:117 Resp: 12398

Ion Ratio Lower Upper

117 100

119 79.1 75.8 113.8

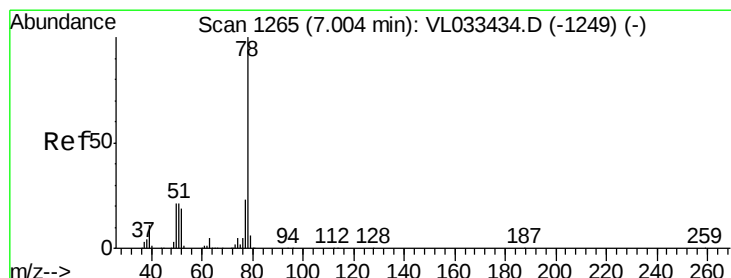
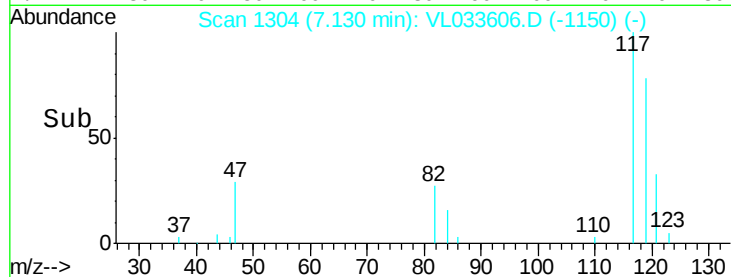
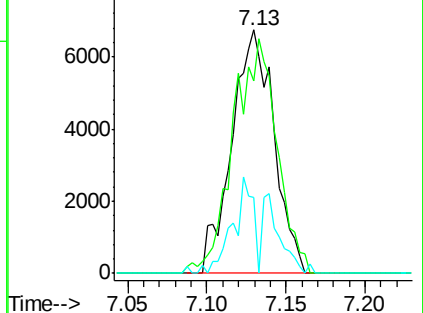
121 31.4 24.7 37.1



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: 0.073 ppbv m

RT: 7.00 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

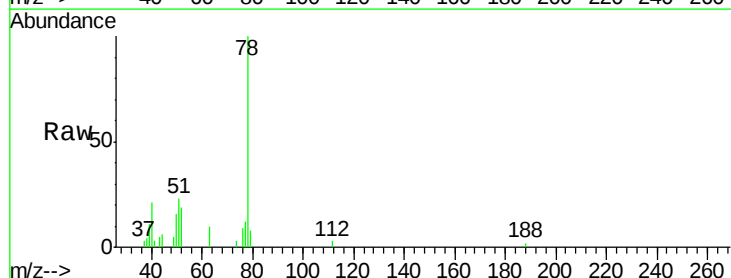
Tgt Ion: 78 Resp: 10914

Ion Ratio Lower Upper

78 100

77 12.1 18.1 27.1#

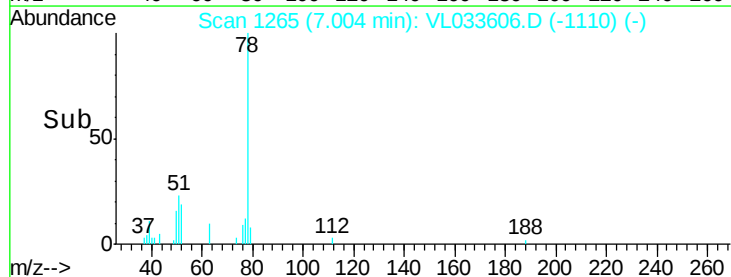
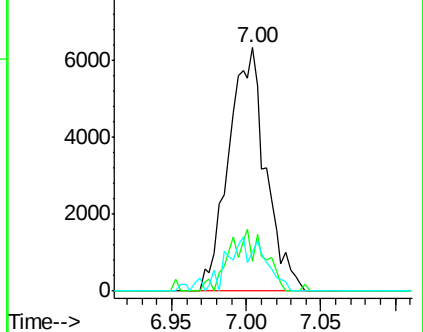
50 16.1 16.7 25.1#

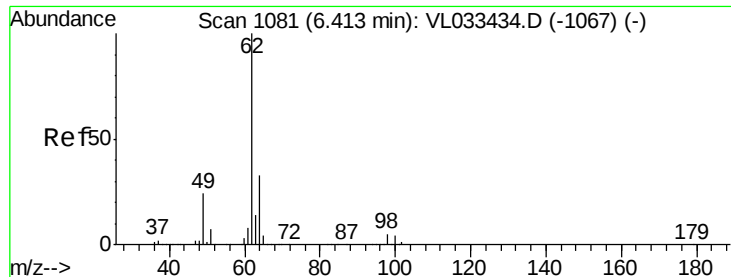


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

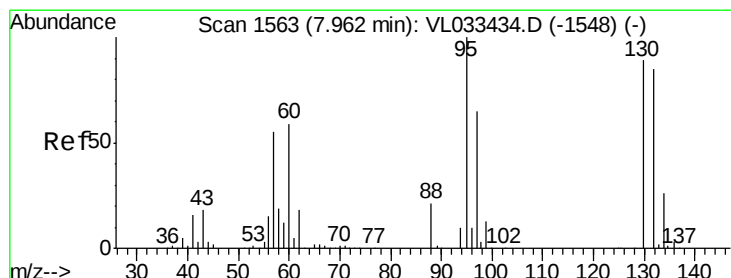
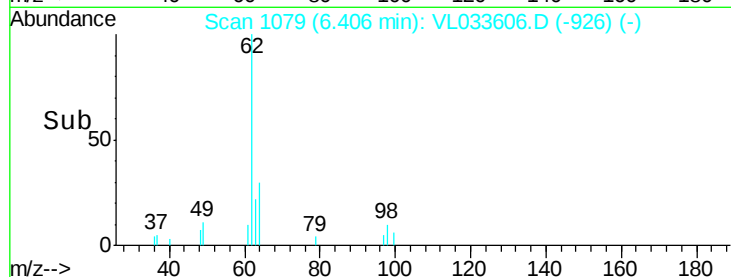
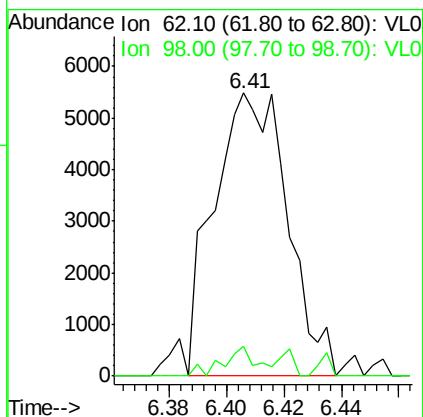
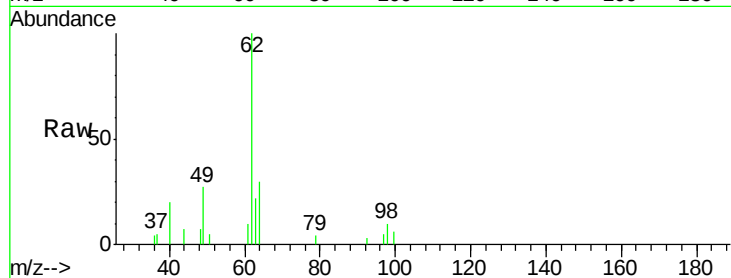




#37
 1,2-Dichloroethane
 Concen: 0.097 ppbv m
 RT: 6.41 min Scan# 1079
 Delta R.T. -0.01 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

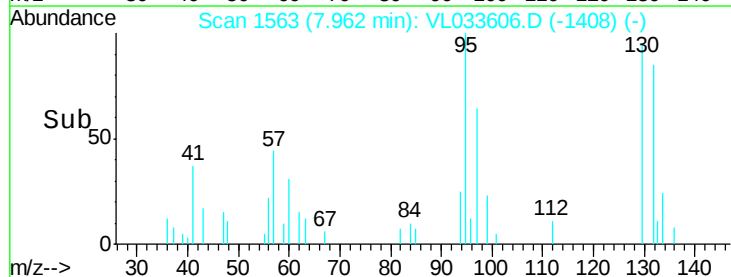
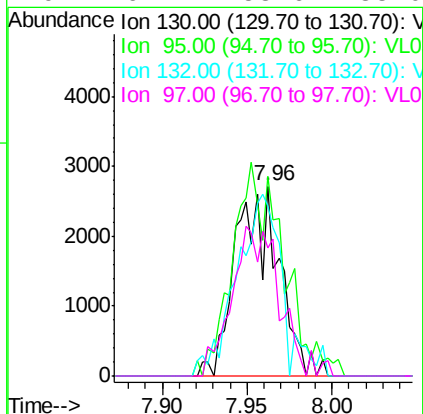
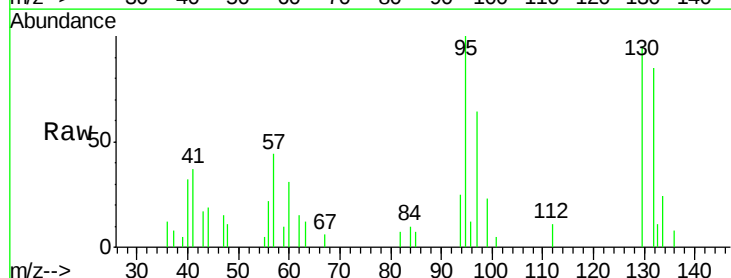
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT2-2019

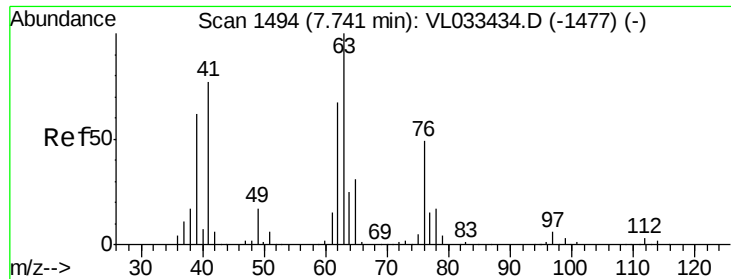
Tot Ion: 62 Resp: 9778
 Ion Ratio Lower Upper
 62 100
 98 7.7 4.4 6.6#



#38
 Trichloroethene
 Concen: 0.086 ppbv m
 RT: 7.96 min Scan# 1563
 Delta R.T. -0.00 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

Tgt Ion: 130 Resp: 4851
 Ion Ratio Lower Upper
 130 100
 95 105.2 89.8 134.8
 132 89.3 76.6 115.0
 97 67.7 58.6 88.0

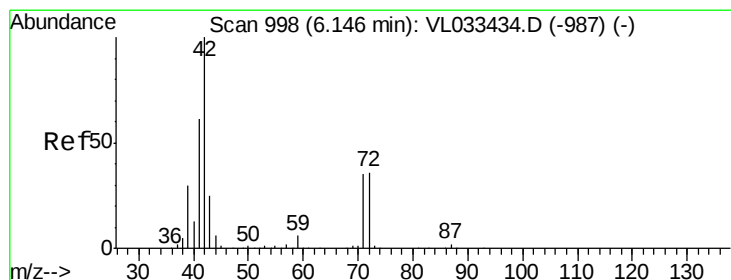
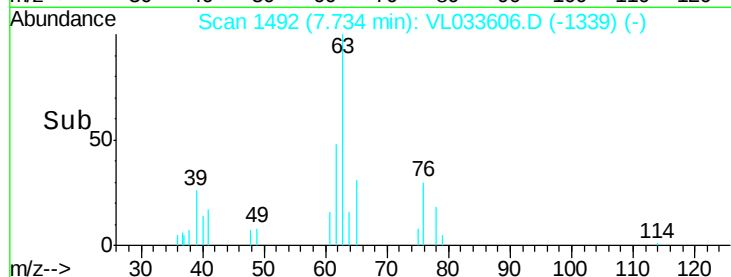
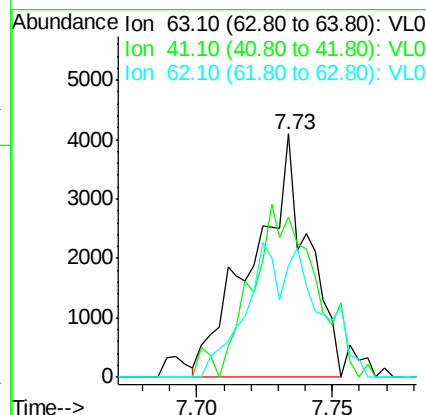
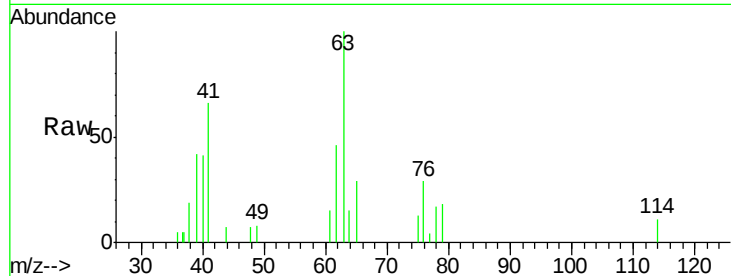




#39
 1,2-Dichloropropane
 Concen: 0.098 ppbv m
 RT: 7.73 min Scan# 1492
 Delta R.T. -0.01 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

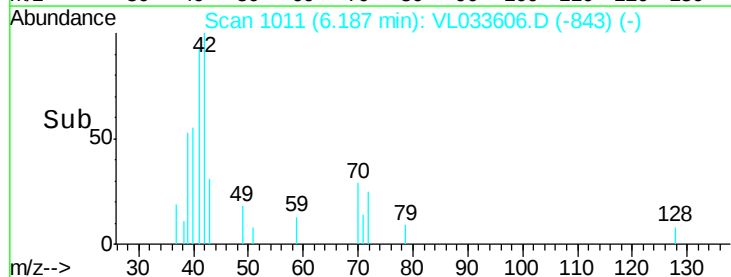
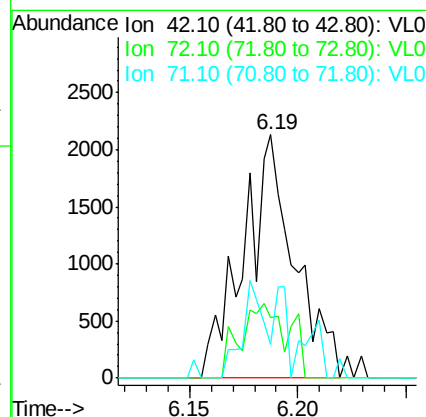
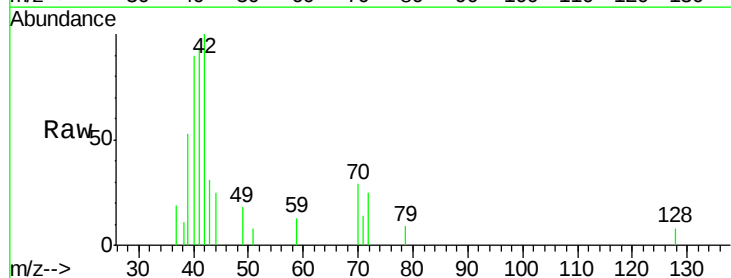
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT2-2019

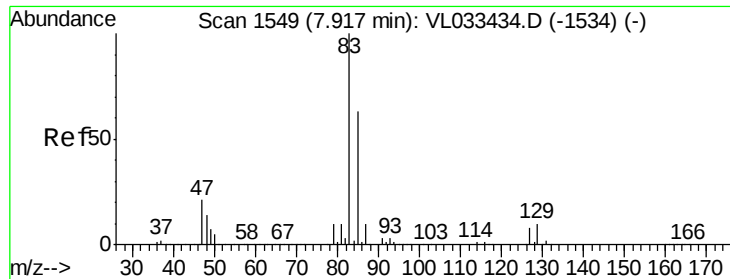
Tot Ion: 63 Resp: 5757
 Ion Ratio Lower Upper
 63 100
 41 65.9 61.2 91.8
 62 45.8 54.0 81.0#



#41
 Tetrahydrofuran
 Concen: 0.059 ppbv m
 RT: 6.19 min Scan# 1011
 Delta R.T. 0.04 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

Tgt Ion: 42 Resp: 3483
 Ion Ratio Lower Upper
 42 100
 72 0.0 30.2 45.2#
 71 0.0 29.4 44.2#





#42

Bromodichloromethane

Concen: 0.093 ppbv m

RT: 7.92 min Scan# 1549

Delta R.T. -0.00 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT2-2019

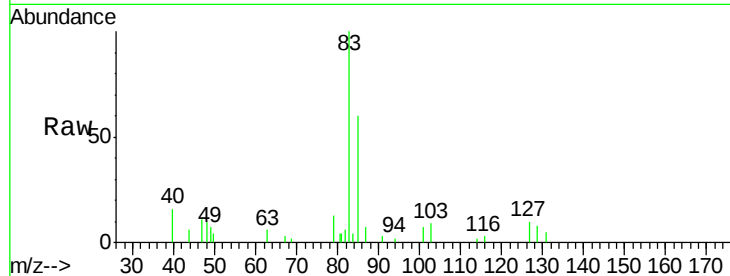
Tot Ion: 83 Resp: 12740

Ion Ratio Lower Upper

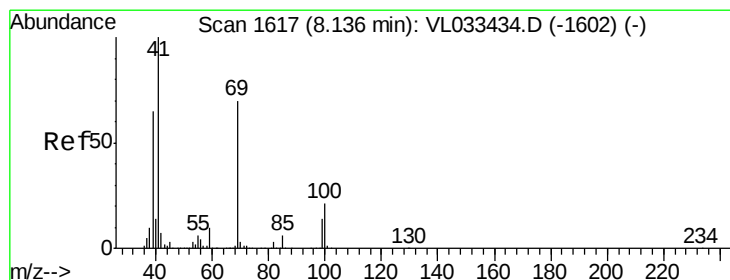
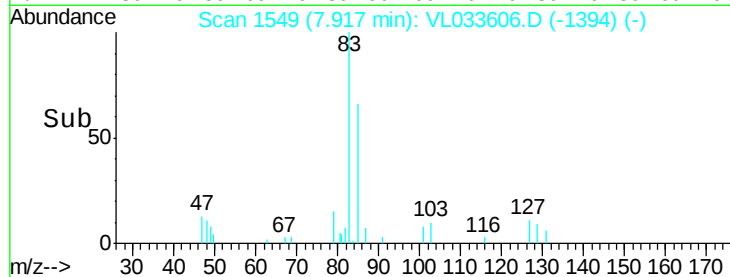
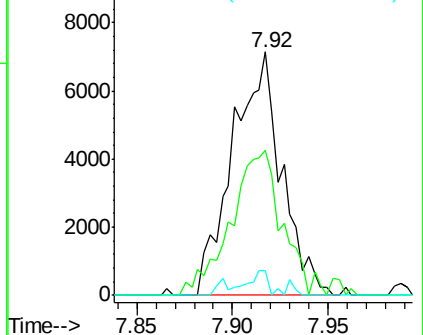
83 100

85 59.7 50.7 76.1

127 10.2 6.6 9.8#



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): VL0



#43

Methyl Methacrylate

Concen: 0.050 ppbv m

RT: 8.15 min Scan# 1621

Delta R.T. 0.01 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

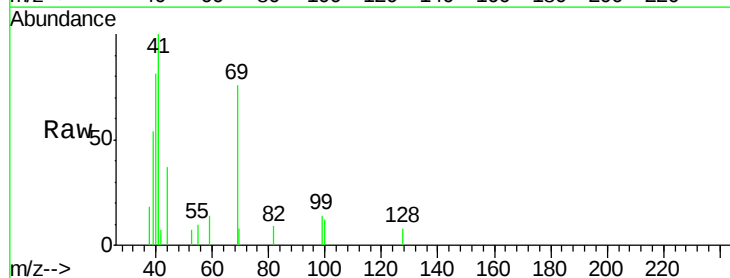
Tgt Ion: 69 Resp: 3068

Ion Ratio Lower Upper

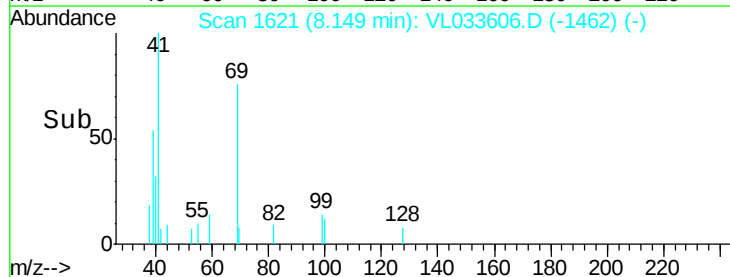
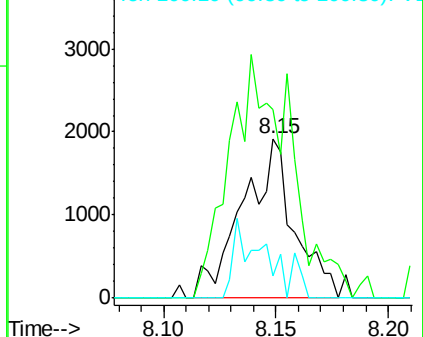
69 100

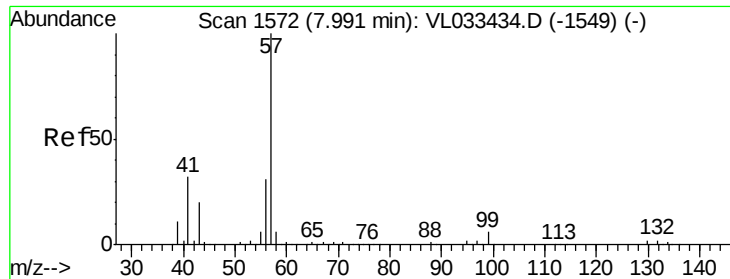
41 182.7 116.6 174.8#

100 31.7 24.4 36.6



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: 0.052 ppbv

RT: 7.99 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT2-2019

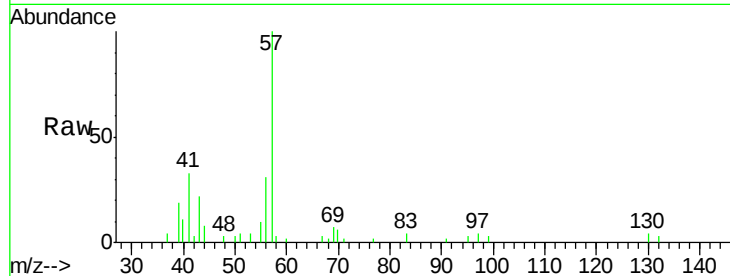
Tot Ion: 57 Resp: 13737

Ion Ratio Lower Upper

57 100

41 48.9 26.0 39.0#

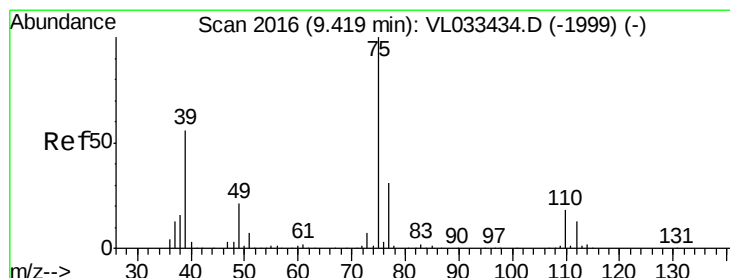
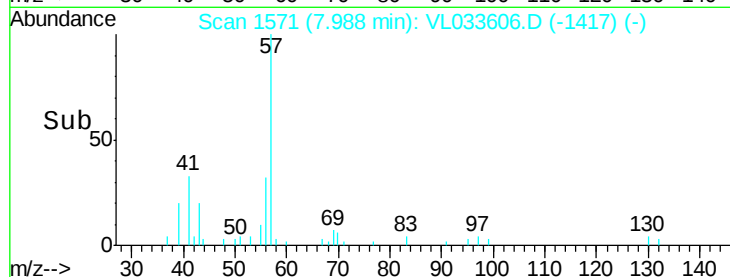
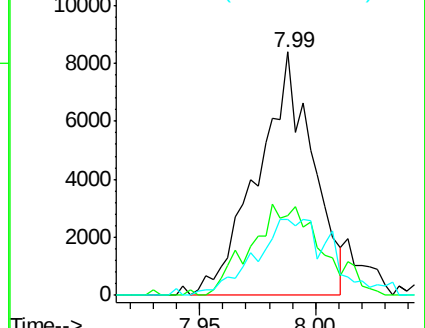
56 44.1 24.6 37.0#



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: 0.051 ppbv m

RT: 9.41 min Scan# 2014

Delta R.T. -0.01 min

Lab File: VL033606.D

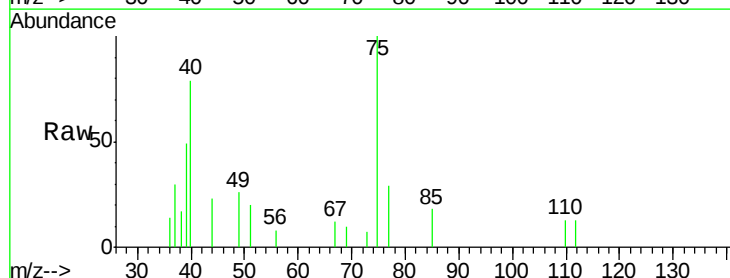
Acq: 17 Apr 2019 17:31

Tgt Ion: 75 Resp: 3801

Ion Ratio Lower Upper

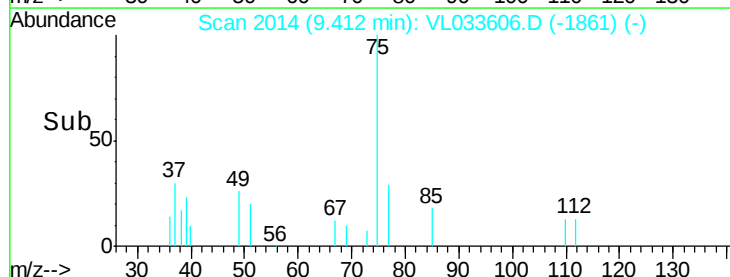
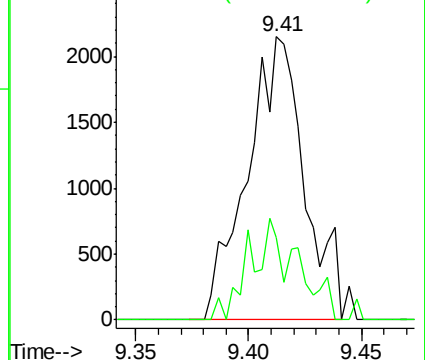
75 100

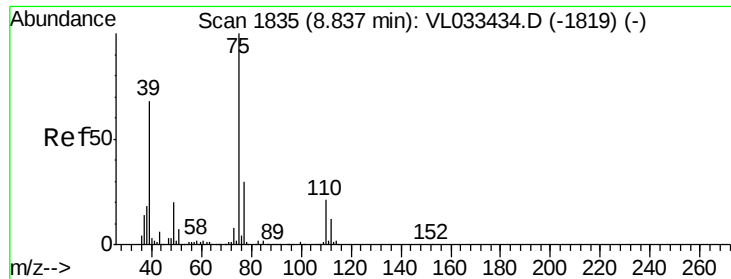
77 28.9 24.5 36.7



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

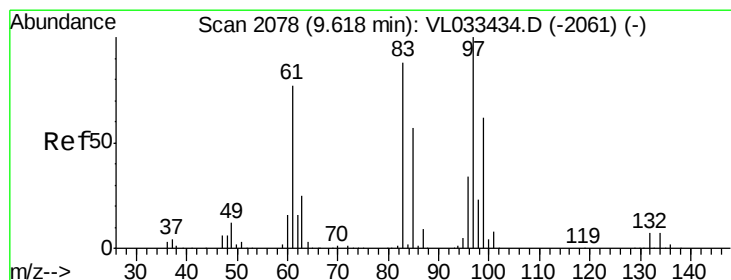
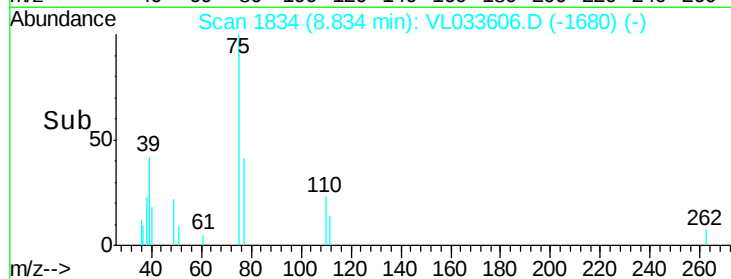
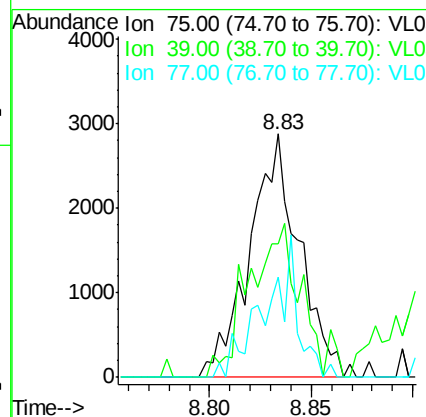
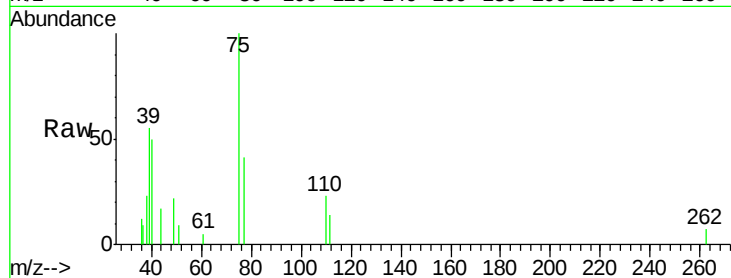




#46
 cis-1,3-Dichloropropene
 Concen: 0.055 ppbv m
 RT: 8.83 min Scan# 1834
 Delta R.T. -0.00 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

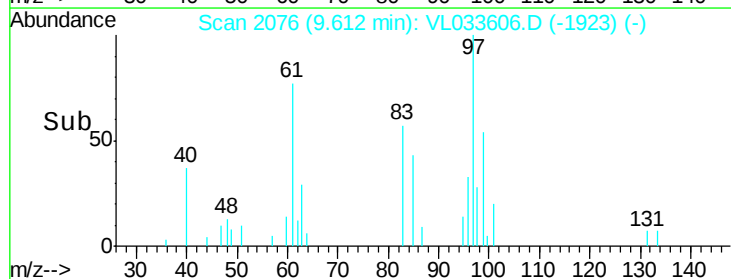
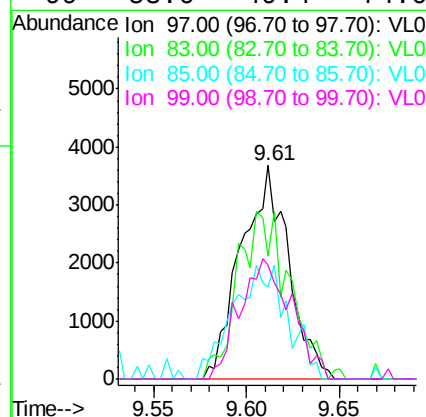
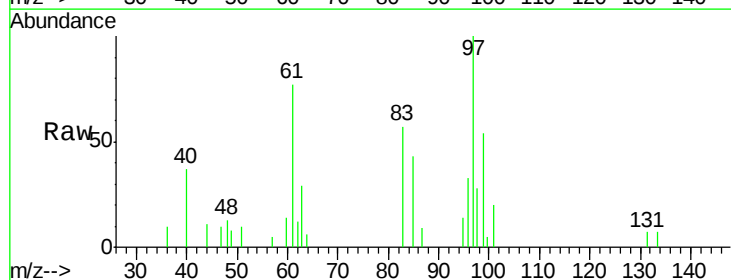
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT2-2019

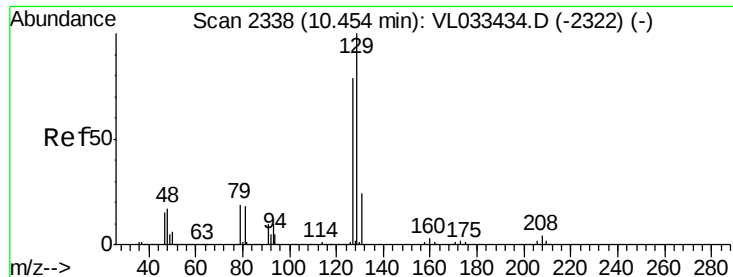
Tot Ion: 75 Resp: 4832
 Ion Ratio Lower Upper
 75 100
 39 54.8 54.1 81.1
 77 41.4 23.9 35.9#



#47
 1,1,2-Trichloroethane
 Concen: 0.098 ppbv m
 RT: 9.61 min Scan# 2076
 Delta R.T. -0.01 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

Tgt Ion: 97 Resp: 6513
 Ion Ratio Lower Upper
 97 100
 83 57.3 70.5 105.7#
 85 43.0 45.6 68.4#
 99 53.6 49.4 74.0





#48

Dibromochloromethane

Concen: 0.071 ppbv m

RT: 10.45 min Scan# 2336

Delta R.T. -0.01 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

Instrument :

MSVOA_L

ClientSampleId :

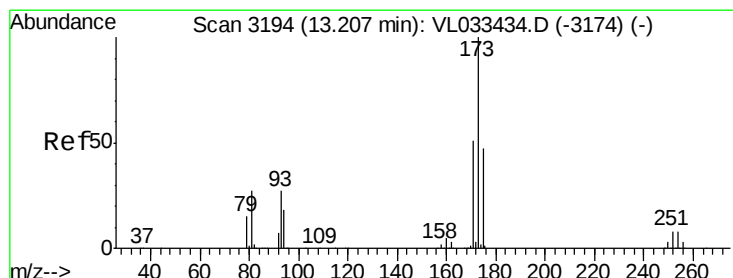
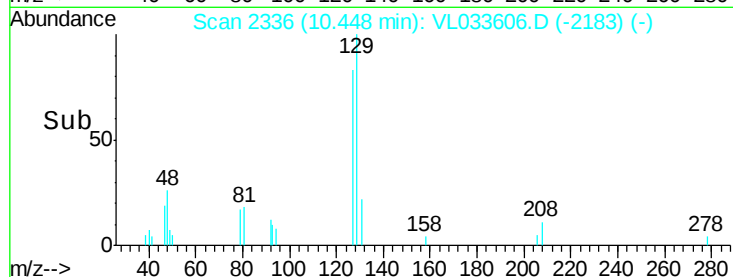
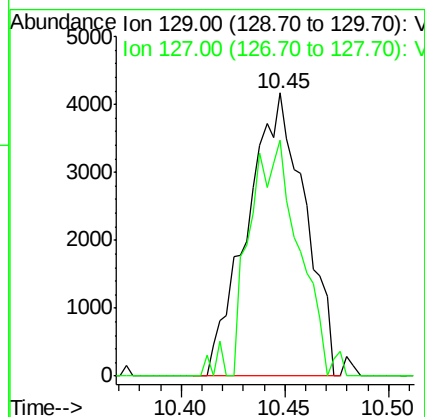
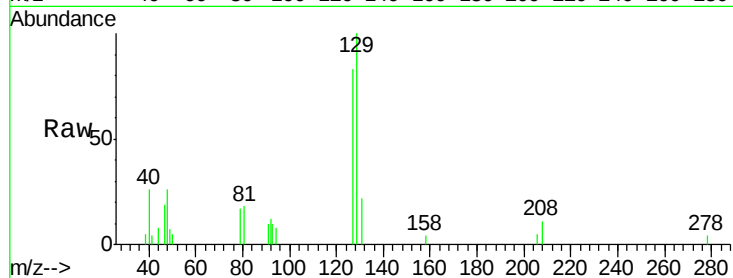
MDL-MDL-AIR-03-QT2-2019

Tot Ion:129 Resp: 8021

Ion Ratio Lower Upper

129 100

127 73.2 39.1 117.2



#49

Bromoform

Concen: 0.061 ppbv

RT: 13.19 min Scan# 3190

Delta R.T. -0.01 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

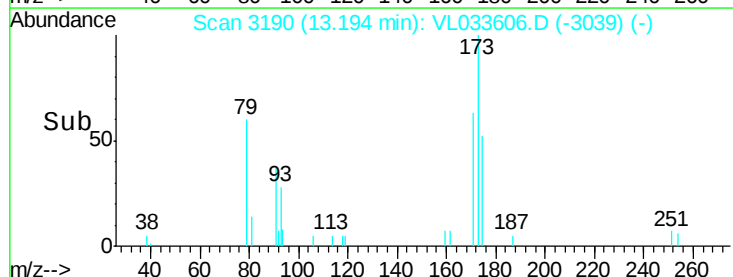
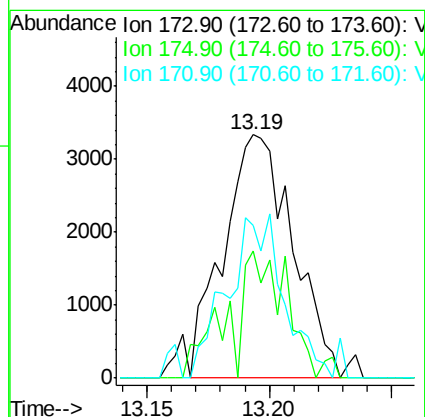
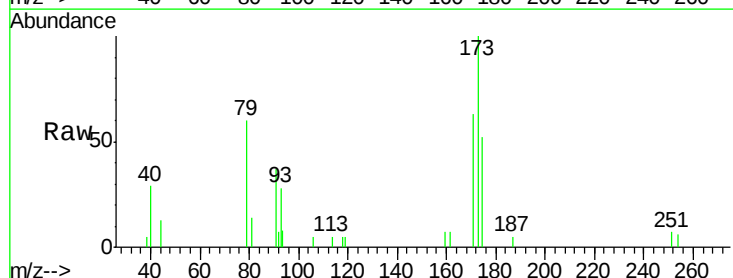
Tgt Ion:173 Resp: 6570

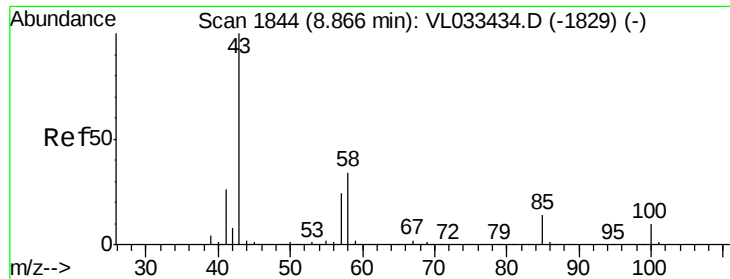
Ion Ratio Lower Upper

173 100

175 44.1 39.3 58.9

171 58.3 41.2 61.8

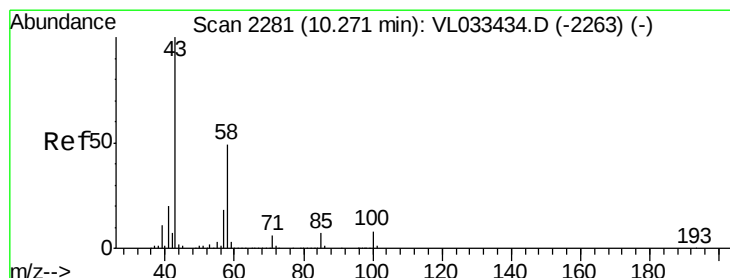
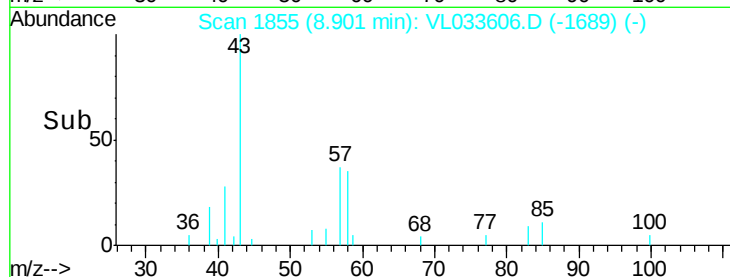
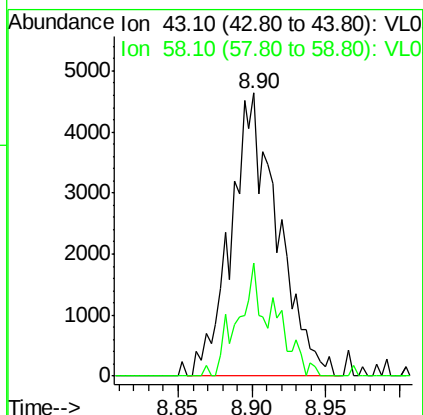
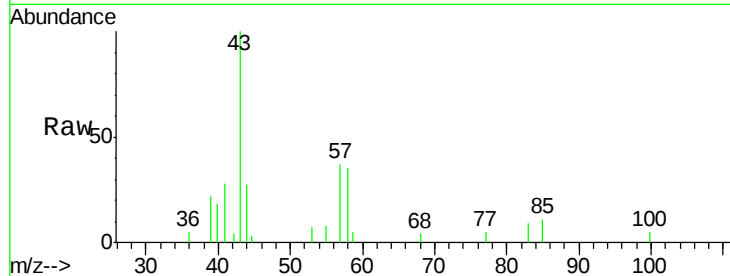




#50
 4-Methyl-2-Pentanone
 Concen: 0.065 ppbv m
 RT: 8.90 min Scan# 1855
 Delta R.T. 0.04 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

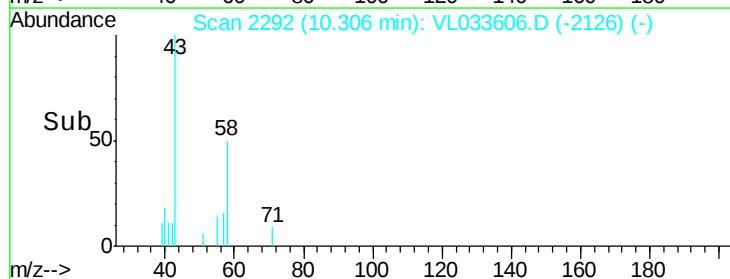
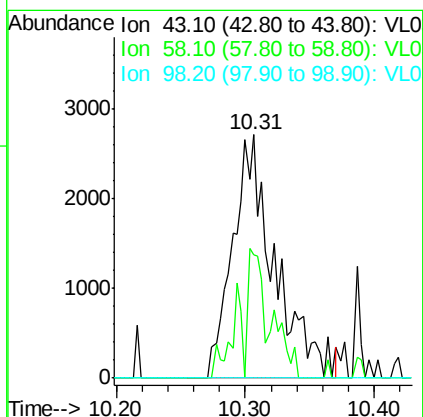
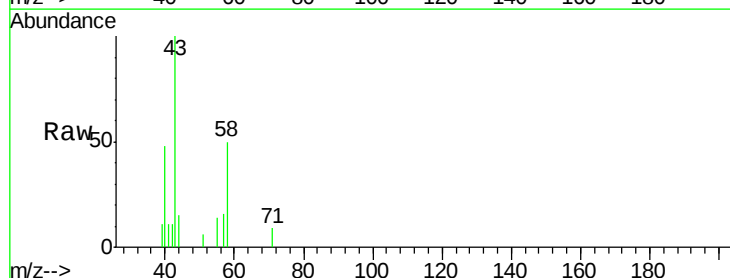
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT2-2019

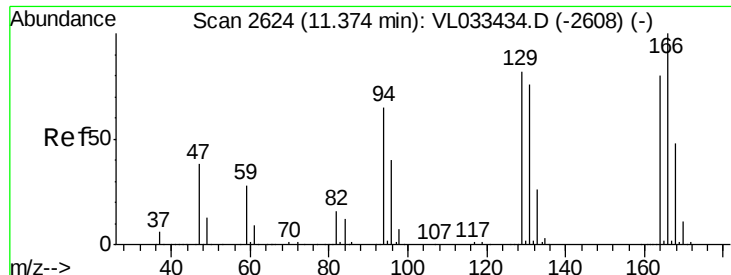
Tot Ion: 43 Resp: 10197
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.0 42.0#



#51
 2-Hexanone
 Concen: 0.052 ppbv m
 RT: 10.31 min Scan# 2292
 Delta R.T. 0.04 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

Tgt Ion: 43 Resp: 6101
 Ion Ratio Lower Upper
 43 100
 58 38.5 38.2 57.2
 98 0.0 0.2 0.2#





#52

Tetrachloroethene

Concen: 0.082 ppbv m

RT: 11.36 min Scan# 2620

Delta R.T. -0.01 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT2-2019

Tot Ion:164 Resp: 4669

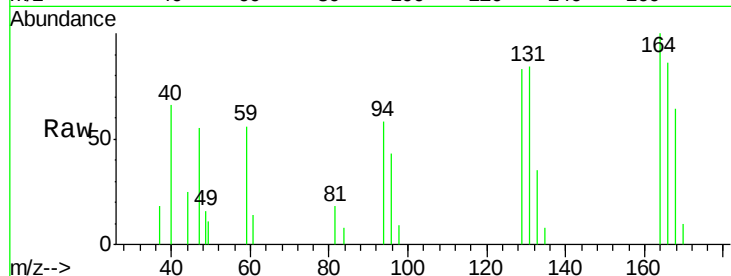
Ion Ratio Lower Upper

164 100

166 85.9 99.5 149.3#

129 82.8 81.4 122.2

131 83.7 75.6 113.4

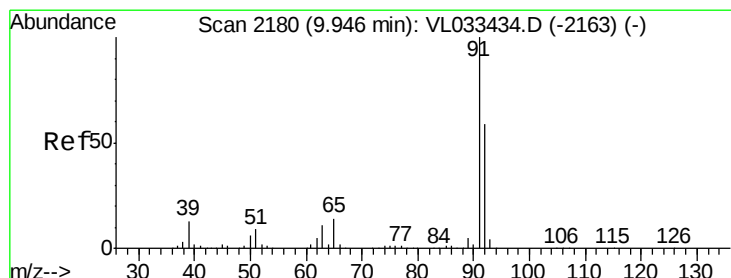
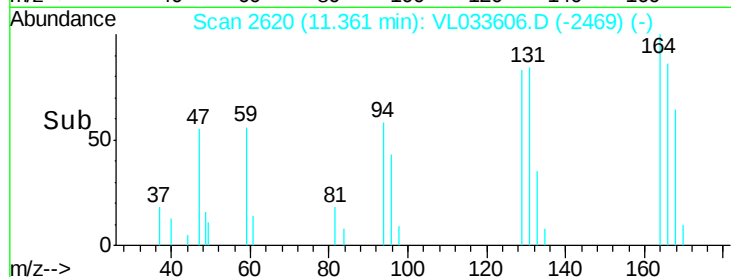
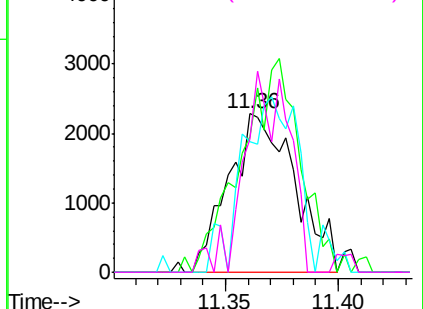


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.049 ppbv m

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033606.D

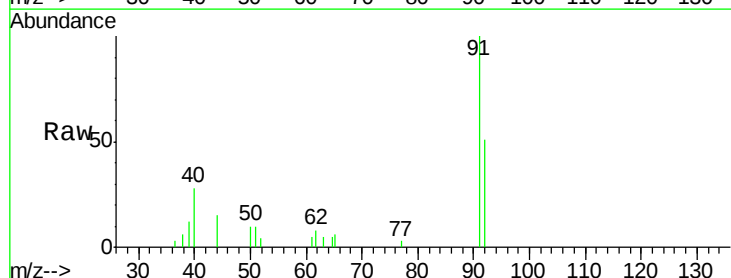
Acq: 17 Apr 2019 17:31

Tgt Ion: 91 Resp: 8491

Ion Ratio Lower Upper

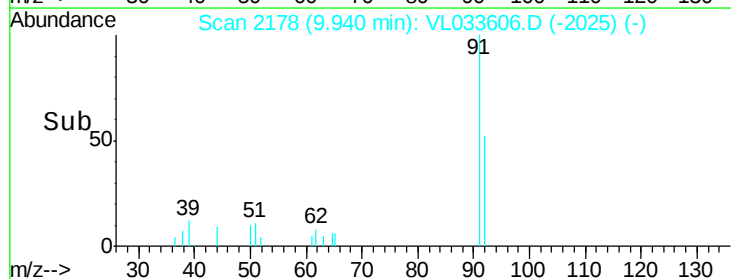
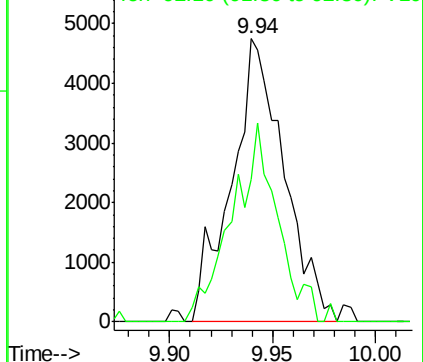
91 100

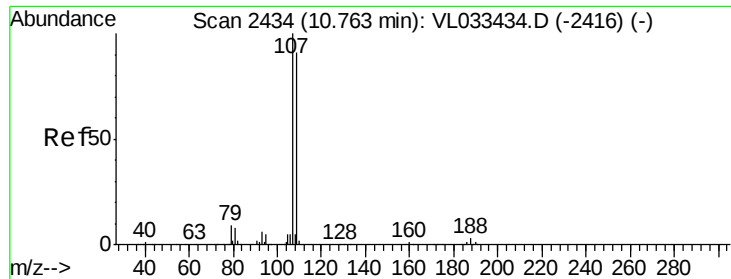
92 61.0 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#54

1,2-Dibromoethane

Concen: 0.073 ppbv m

RT: 10.75 min Scan# 2431

Delta R.T. -0.01 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

Instrument :

MSVOA_L

ClientSampleId :

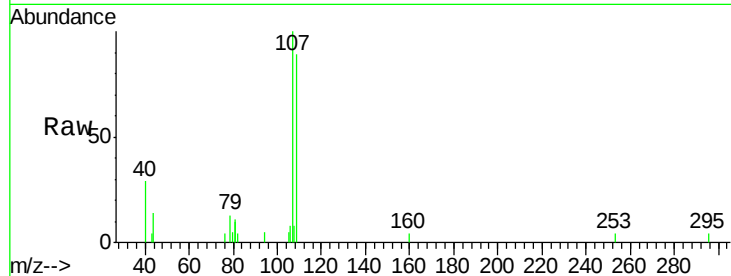
MDL-MDL-AIR-03-QT2-2019

Tot Ion:107 Resp: 7616

Ion Ratio Lower Upper

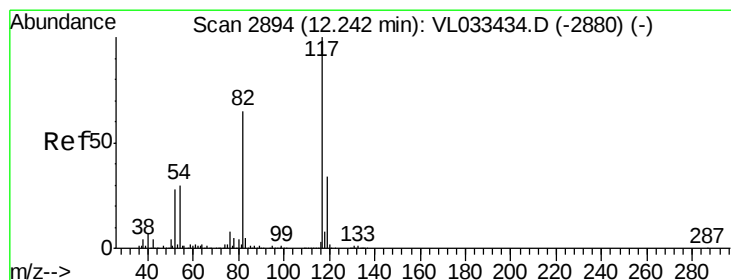
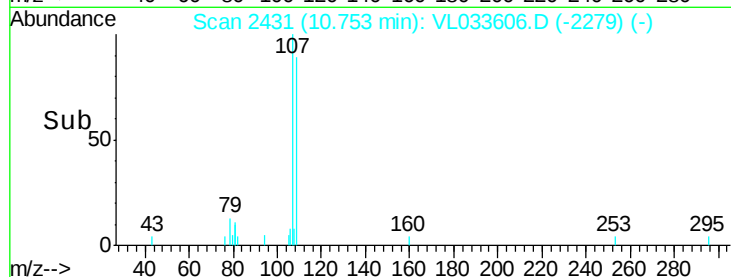
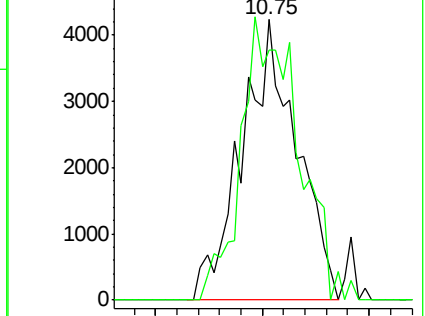
107 100

109 89.3 72.7 109.1



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: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

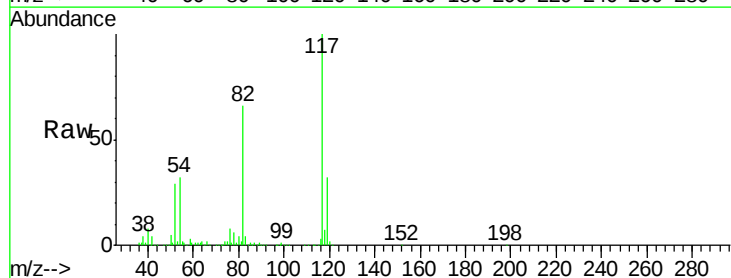
Tgt Ion:117 Resp: 1802243

Ion Ratio Lower Upper

117 100

82 67.0 51.5 77.3

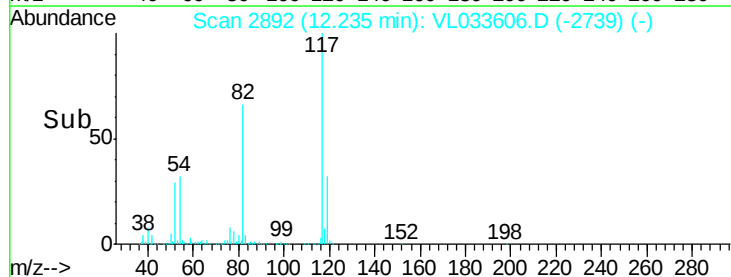
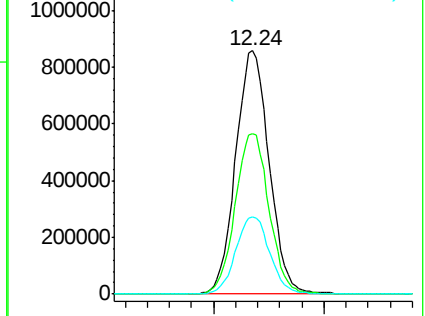
119 32.5 25.5 38.3

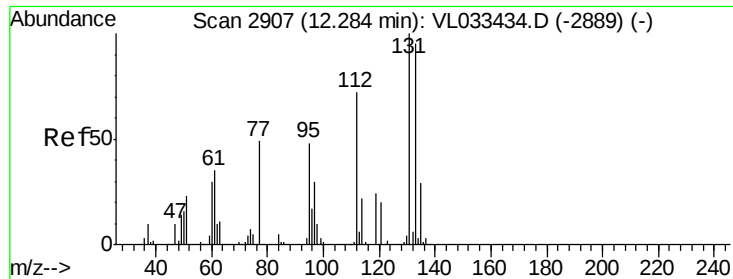


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V

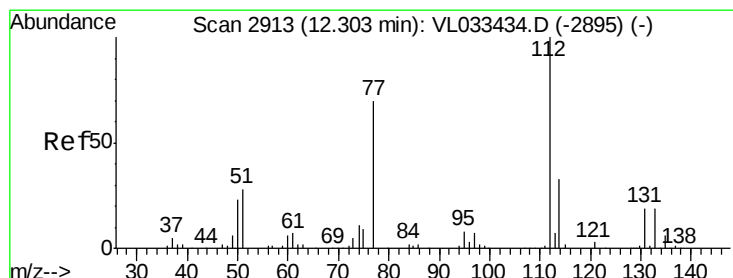
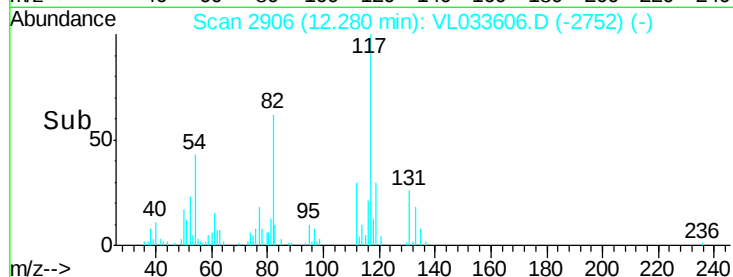
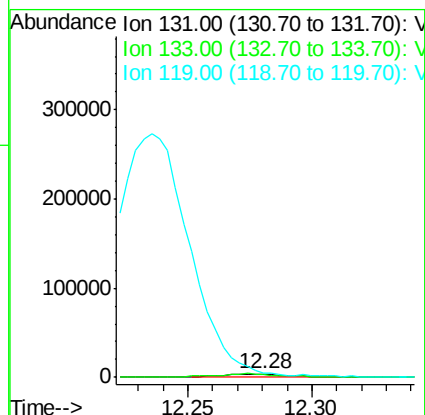
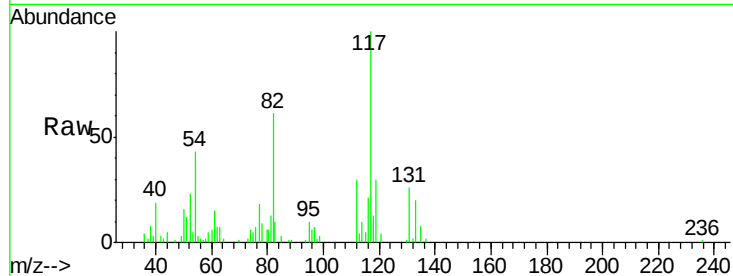




#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.082 ppbv m
 RT: 12.28 min Scan# 2906
 Delta R.T. -0.00 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

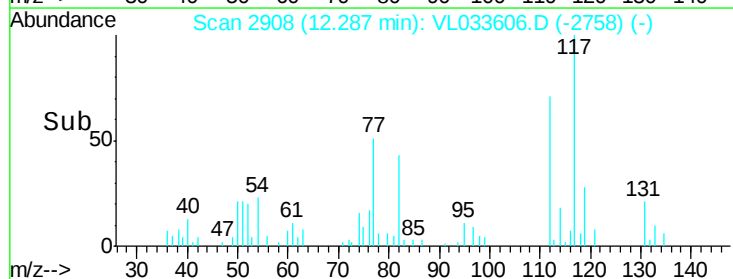
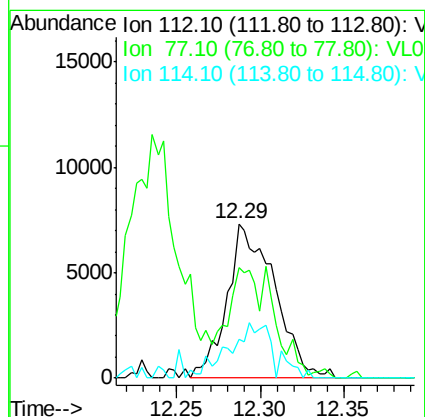
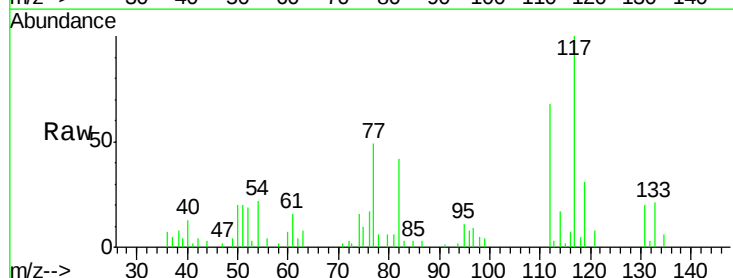
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT2-2019

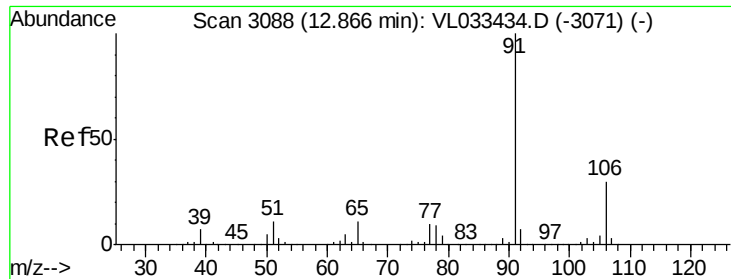
Tot Ion:131 Resp: 6793
 Ion Ratio Lower Upper
 131 100
 133 0.0 76.2 114.4#
 119 0.0 45.0 67.6#



#57
 Chlorobenzene
 Concen: 0.103 ppbv m
 RT: 12.29 min Scan# 2908
 Delta R.T. -0.02 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

Tgt Ion:112 Resp: 14457
 Ion Ratio Lower Upper
 112 100
 77 72.1 57.3 85.9
 114 25.0 29.8 36.4#





#58

Ethyl Benzene

Concen: 0.049 ppbv

RT: 12.86 min Scan# 3086

Delta R.T. -0.01 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

Instrument :

MSVOA_L

ClientSampleId :

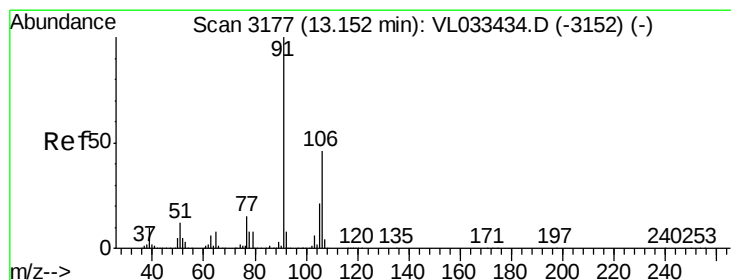
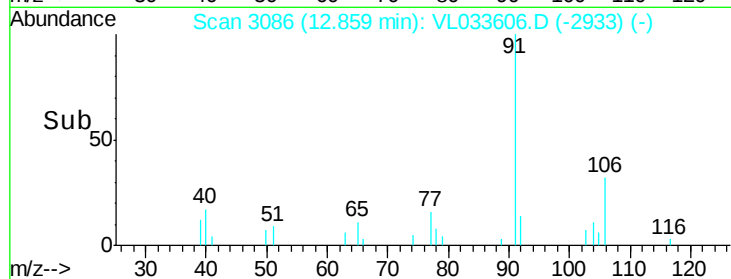
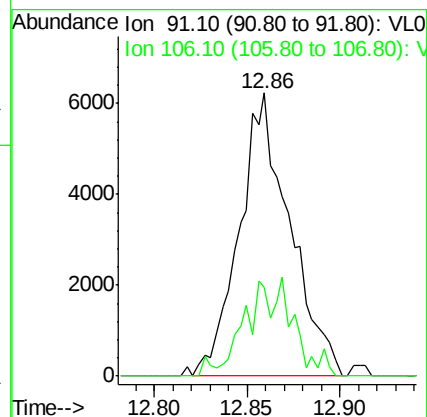
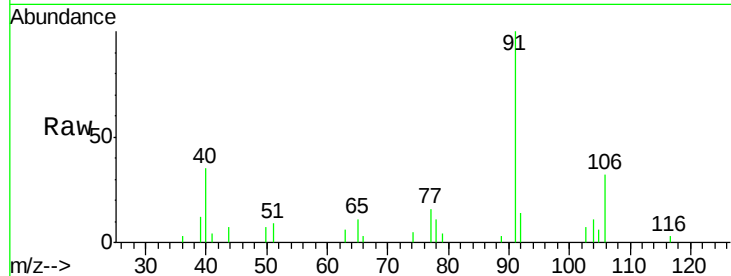
MDL-MDL-AIR-03-QT2-2019

Tot Ion: 91 Resp: 11789

Ion Ratio Lower Upper

91 100

106 31.6 23.8 35.6



#59

m/p-Xylene

Concen: 0.104 ppbv m

RT: 13.13 min Scan# 3171

Delta R.T. -0.02 min

Lab File: VL033606.D

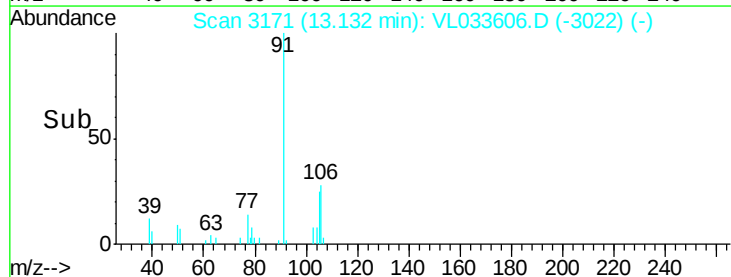
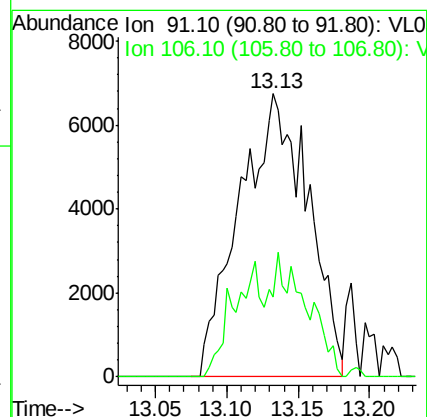
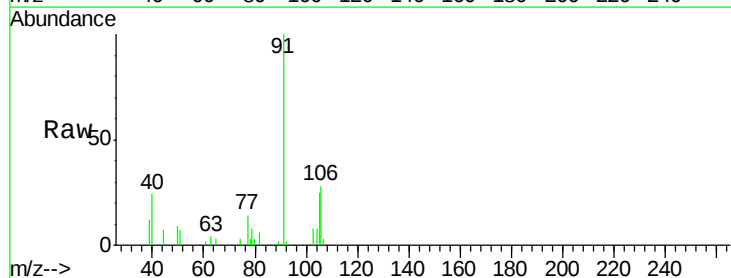
Acq: 17 Apr 2019 17:31

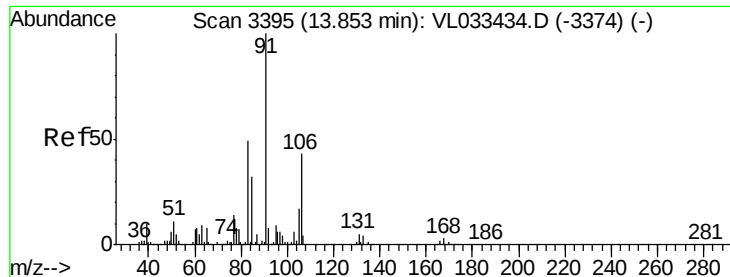
Tgt Ion: 91 Resp: 22447

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0





#60

o-Xylene

Concen: 0.050 ppbv m

RT: 13.84 min Scan# 3391

Delta R.T. -0.01 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

Instrument :

MSVOA_L

ClientSampleId :

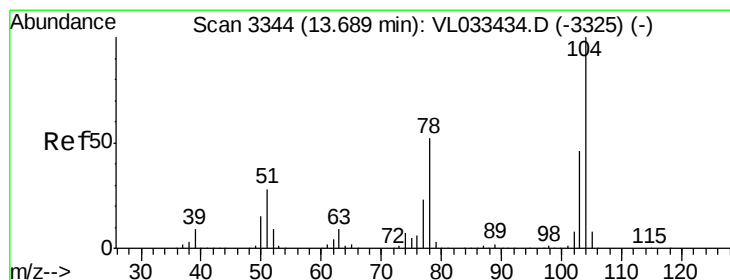
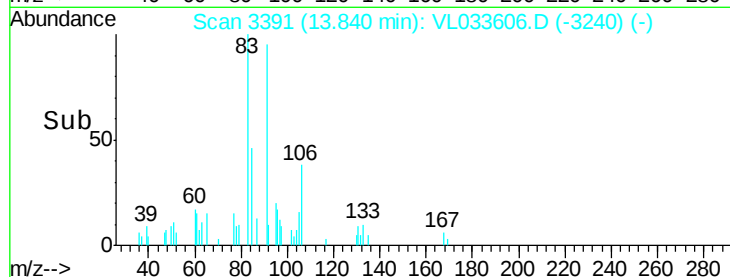
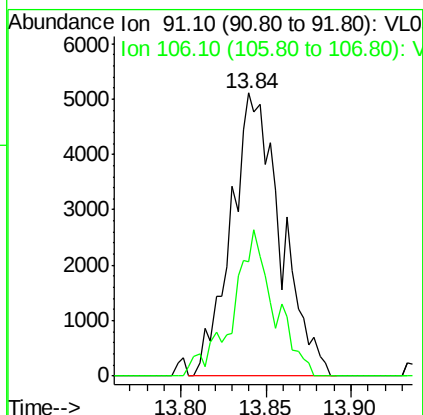
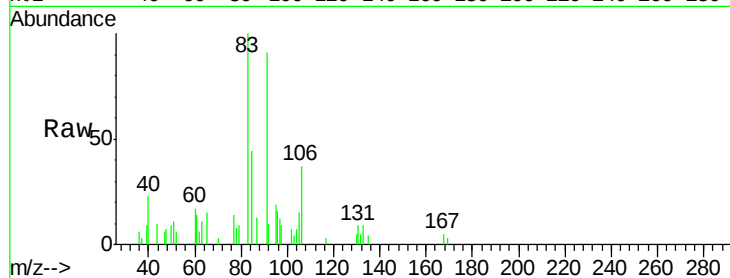
MDL-MDL-AIR-03-QT2-2019

Tot Ion: 91 Resp: 10432

Ion Ratio Lower Upper

91 100

106 42.8 21.4 64.3



#61

Styrene

Concen: 0.043 ppbv m

RT: 13.69 min Scan# 3343

Delta R.T. -0.00 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

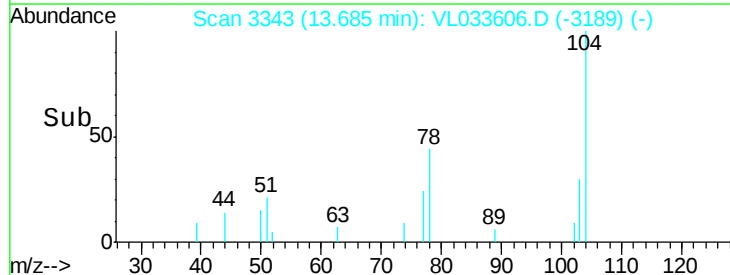
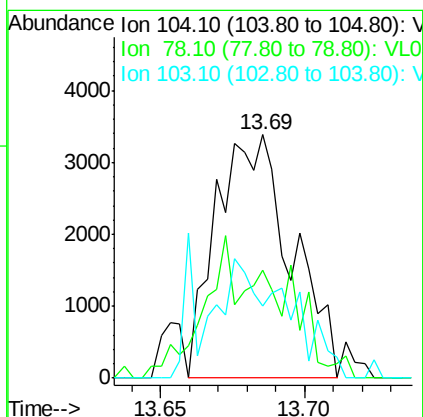
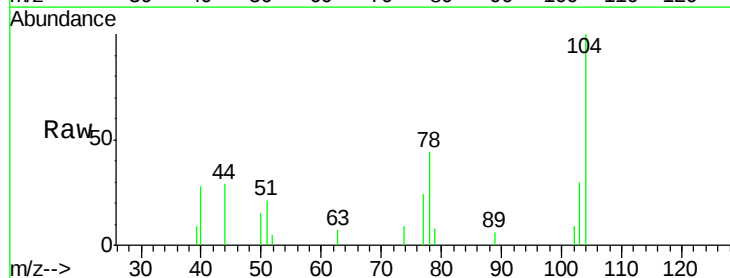
Tgt Ion: 104 Resp: 6124

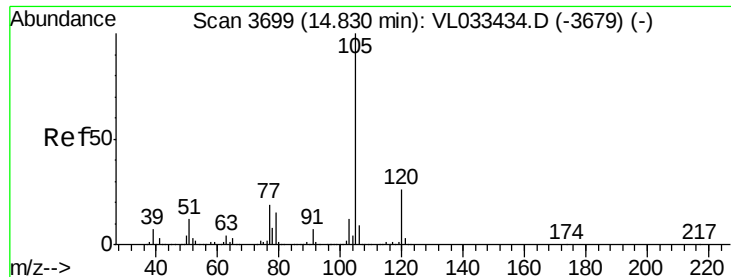
Ion Ratio Lower Upper

104 100

78 0.0 43.2 64.8#

103 0.0 37.8 56.8#





#62

Isopropylbenzene

Concen: 0.063 ppbv

RT: 14.82 min Scan# 3695

Delta R.T. -0.01 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

Instrument :

MSVOA_L

ClientSampleId :

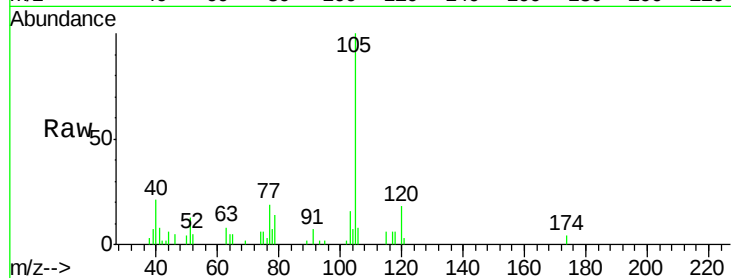
MDL-MDL-AIR-03-QT2-2019

Tot Ion:105 Resp: 18666

Ion Ratio Lower Upper

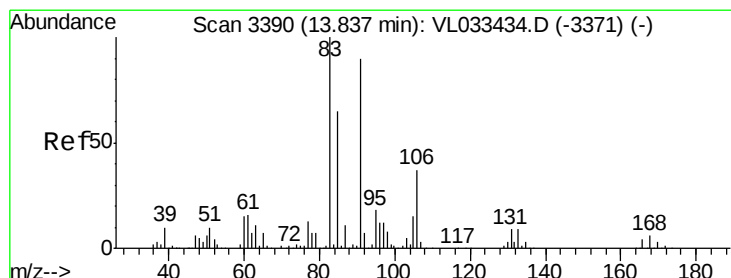
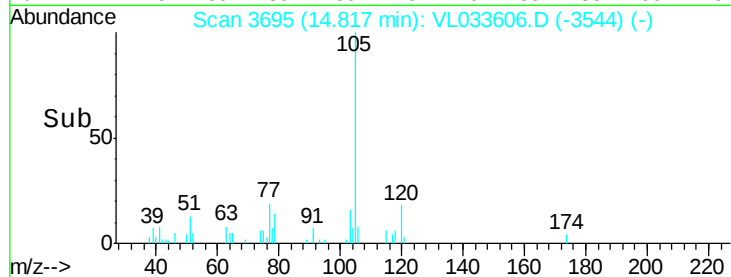
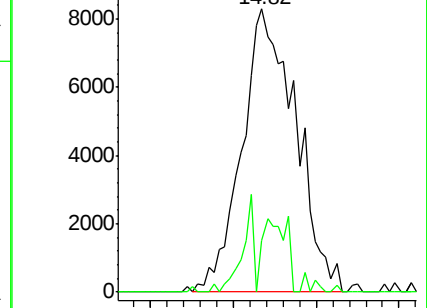
105 100

120 20.2 20.2 30.2



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: 0.094 ppbv m

RT: 13.83 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

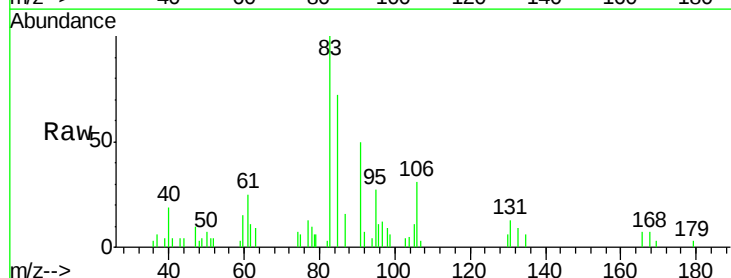
Tgt Ion: 83 Resp: 14361

Ion Ratio Lower Upper

83 100

131 9.9 4.7 14.0

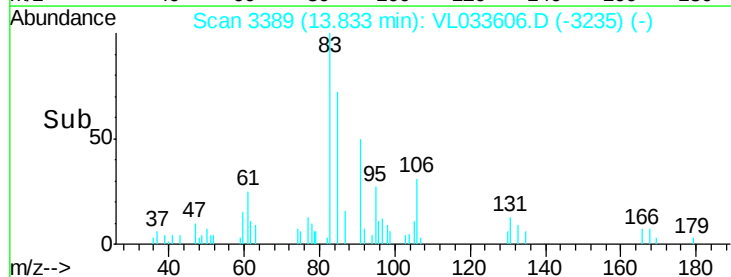
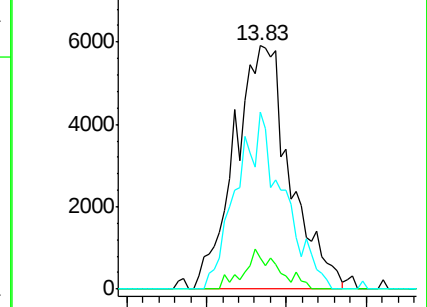
85 61.1 32.7 98.1

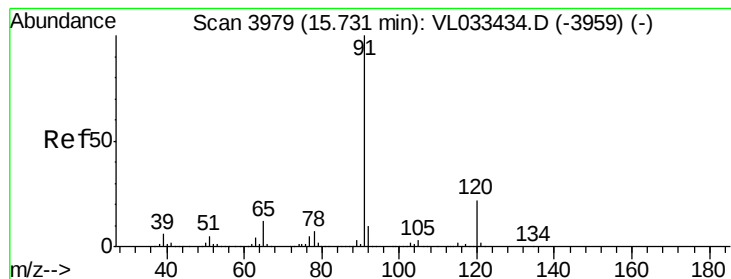


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0





#64

n-propylbenzene

Concen: 0.037 ppbv m

RT: 15.72 min Scan# 3977

Delta R.T. -0.01 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

Instrument :

MSVOA_L

ClientSampleId :

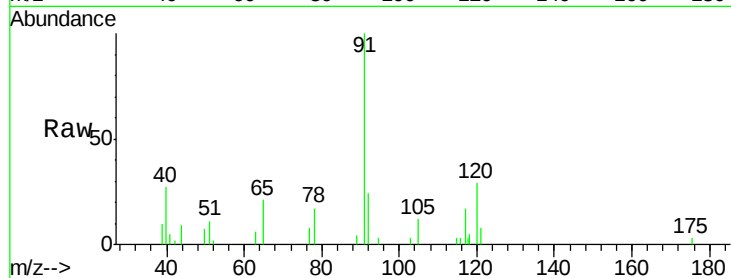
MDL-MDL-AIR-03-QT2-2019

Tot Ion:120 Resp: 2748

Ion Ratio Lower Upper

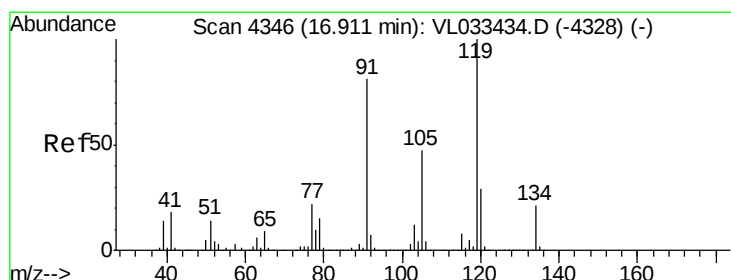
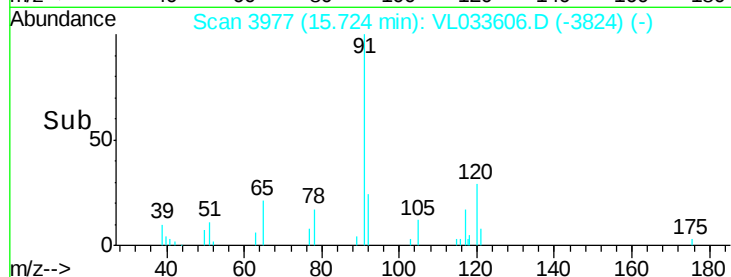
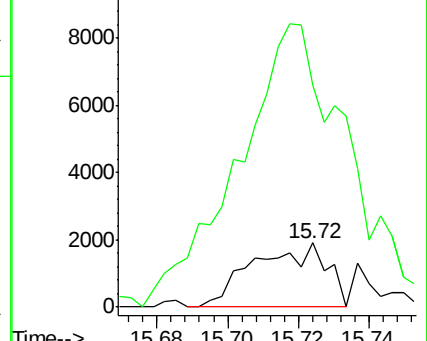
120 100

91 0.0 387.4 581.2#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.033 ppbv m

RT: 16.90 min Scan# 4343

Delta R.T. -0.01 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

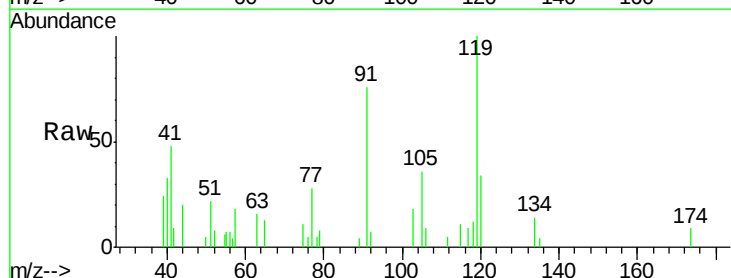
Tgt Ion:119 Resp: 8576

Ion Ratio Lower Upper

119 100

91 0.0 66.4 99.6#

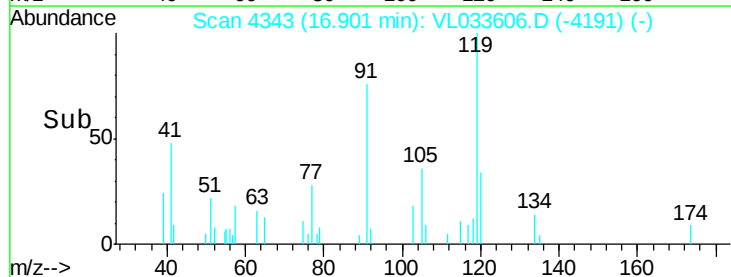
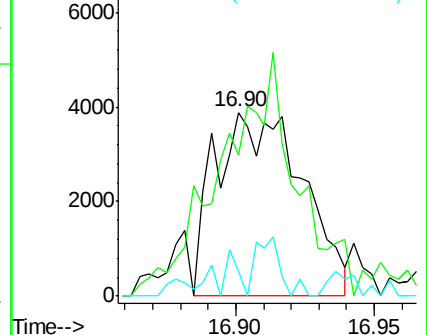
134 0.0 15.5 23.3#

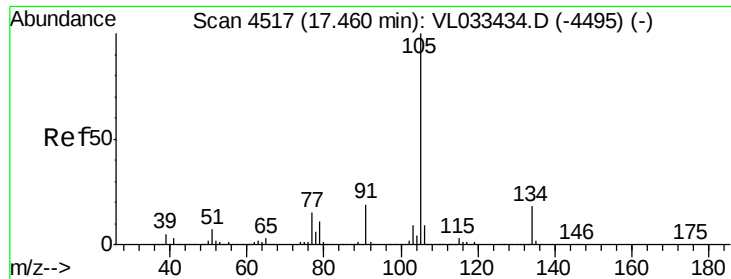


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V





#67

sec-Butylbenzene

Concen: 0.047 ppbv m

RT: 17.46 min Scan# 4518

Delta R.T. 0.00 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

Instrument :

MSVOA_L

ClientSampleId :

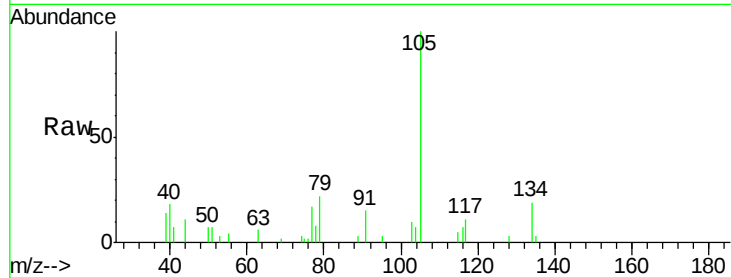
MDL-MDL-AIR-03-QT2-2019

Tot Ion:105 Resp: 17407

Ion Ratio Lower Upper

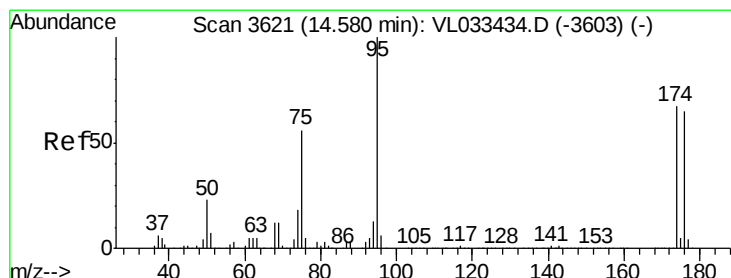
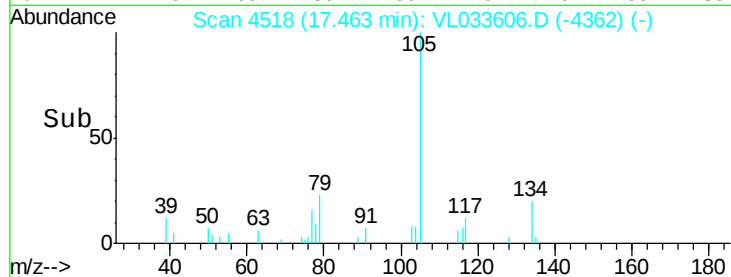
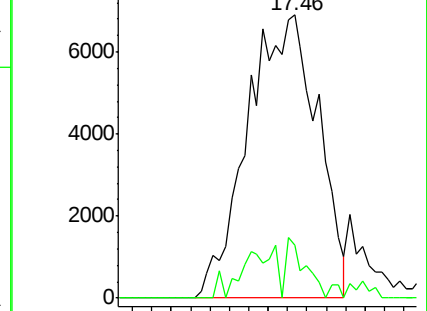
105 100

134 0.0 14.6 21.8#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.321 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.01 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

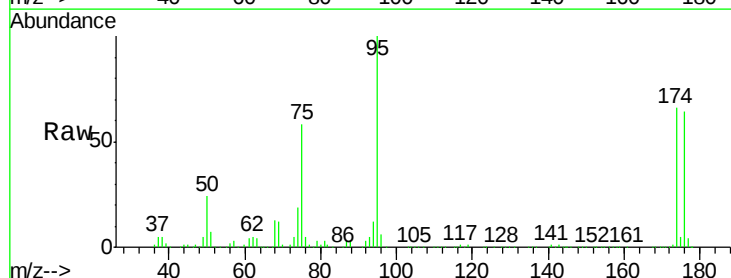
Tgt Ion: 95 Resp: 1458268

Ion Ratio Lower Upper

95 100

174 66.6 52.9 79.3

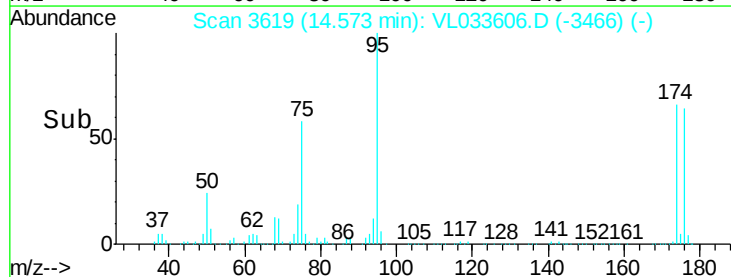
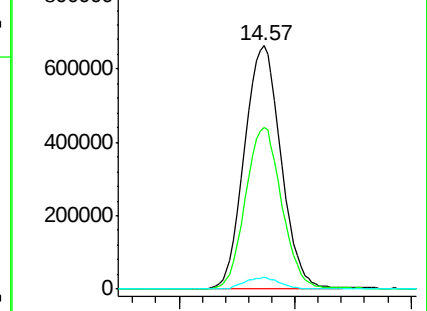
175 4.7 3.8 5.6

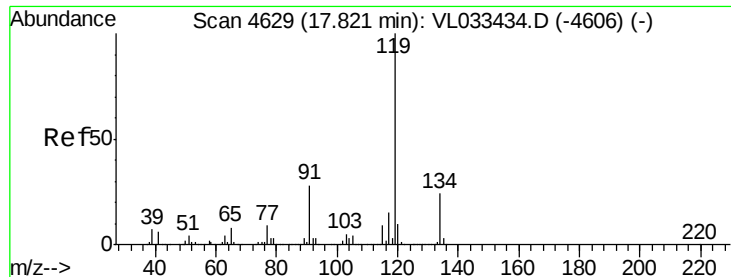


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 0.034 ppbv m

RT: 17.82 min Scan# 4628

Delta R.T. -0.00 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT2-2019

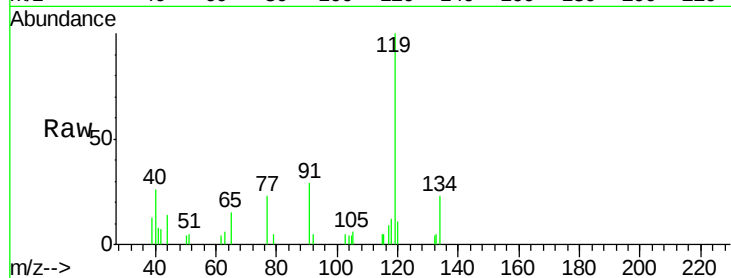
Tot Ion:119 Resp: 10269

Ion Ratio Lower Upper

119 100

134 0.0 19.9 29.9#

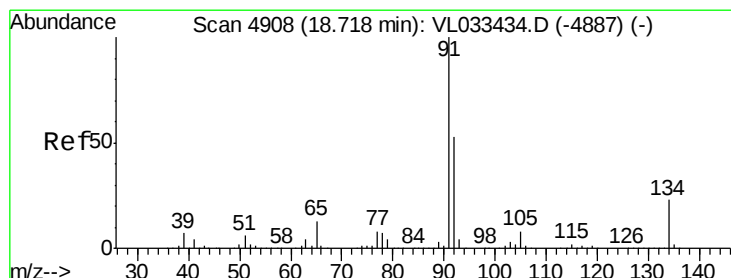
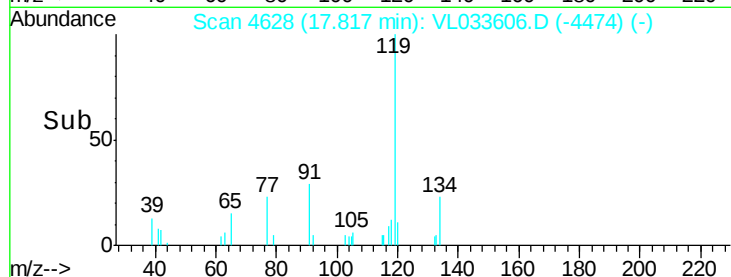
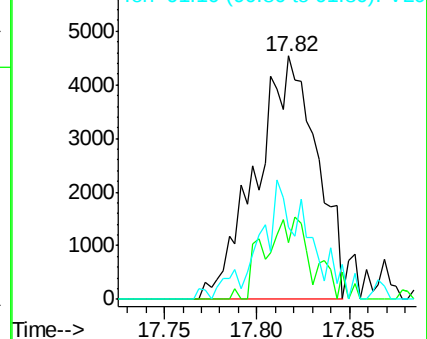
91 41.4 23.4 35.0#



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: 0.043 ppbv m

RT: 18.71 min Scan# 4906

Delta R.T. -0.01 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

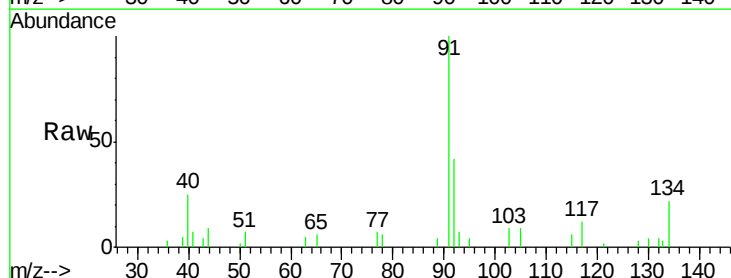
Tgt Ion: 91 Resp: 13775

Ion Ratio Lower Upper

91 100

92 0.0 42.6 64.0#

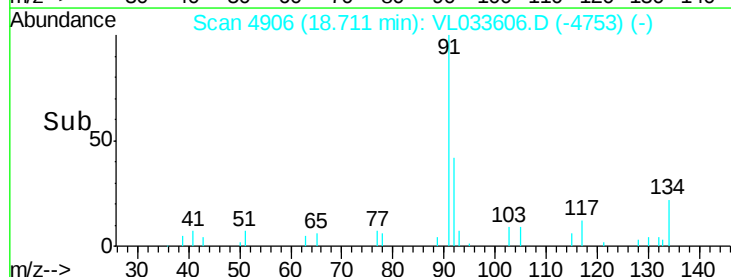
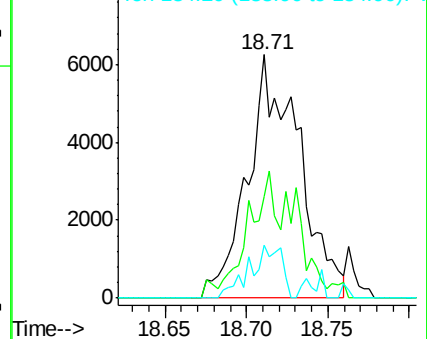
134 16.8 17.5 26.3#

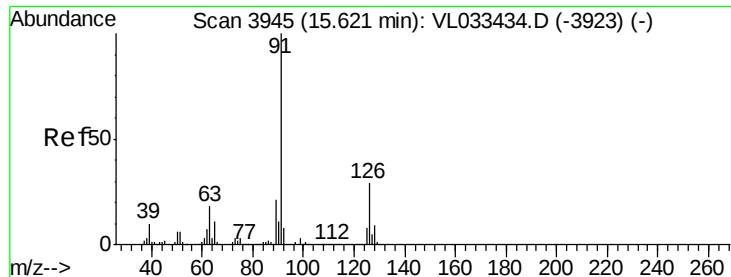


Abundance Ion 91.10 (90.80 to 91.80): V

Ion 92.10 (91.80 to 92.80): V

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 0.053 ppbv m

RT: 15.61 min Scan# 3941

Delta R.T. -0.01 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

Instrument :

MSVOA_L

ClientSampleId :

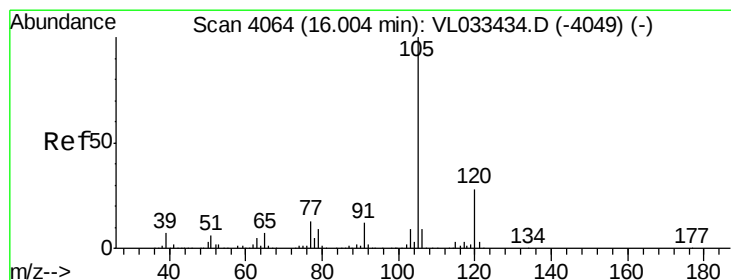
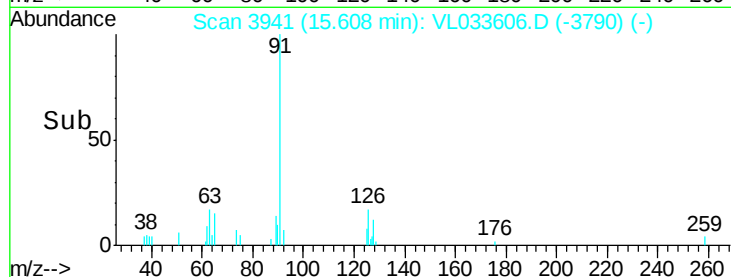
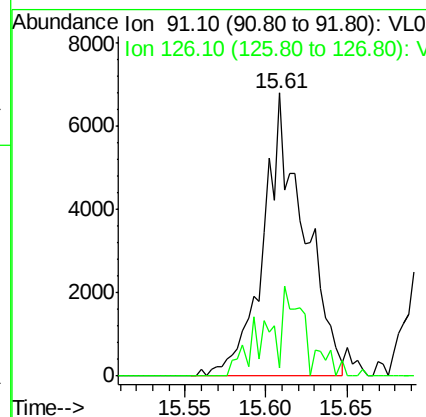
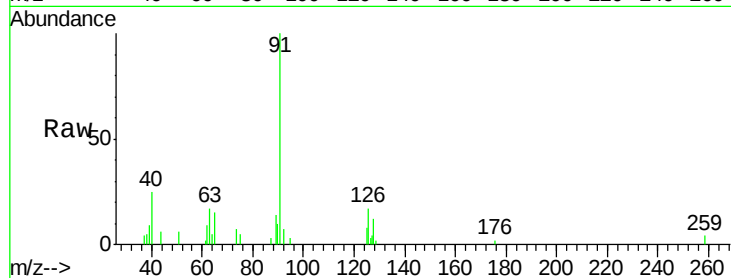
MDL-MDL-AIR-03-QT2-2019

Tot Ion: 91 Resp: 11913

Ion Ratio Lower Upper

91 100

126 30.0 11.7 46.9



#72

4-Ethyltoluene

Concen: 0.040 ppbv m

RT: 16.00 min Scan# 4063

Delta R.T. -0.00 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

Tgt Ion: 105 Resp: 9372

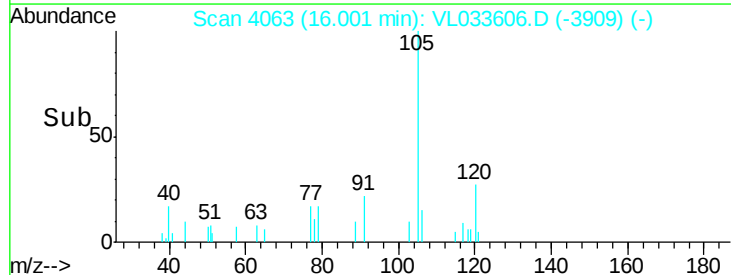
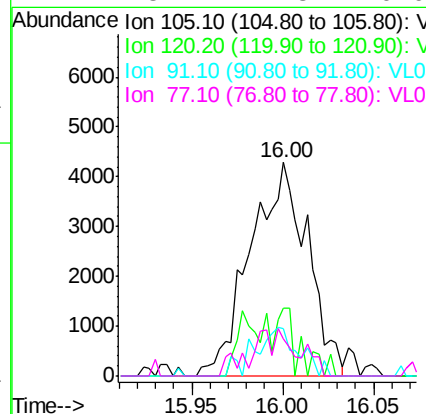
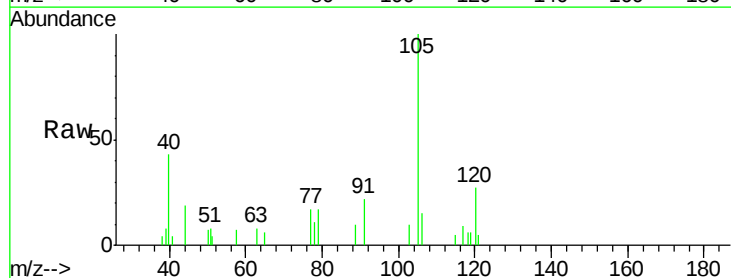
Ion Ratio Lower Upper

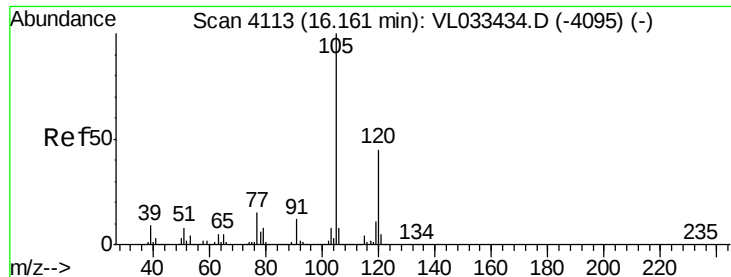
105 100

120 26.2 23.2 34.8

91 17.4 10.4 15.6#

77 18.2 11.3 16.9#



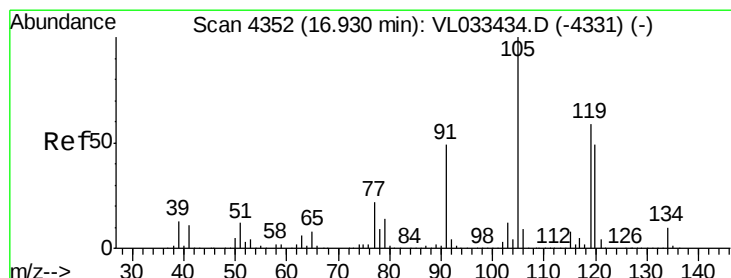
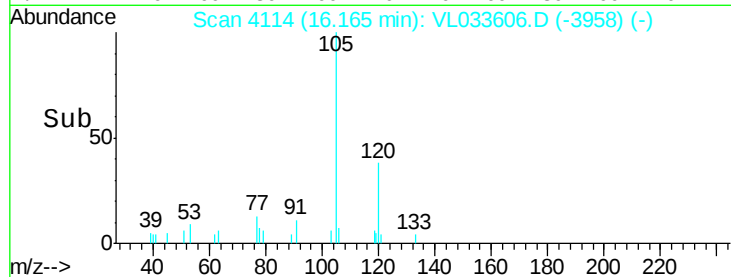
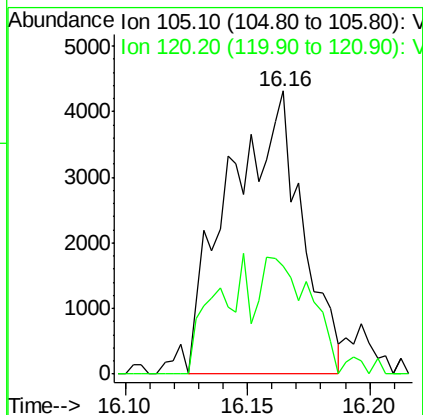
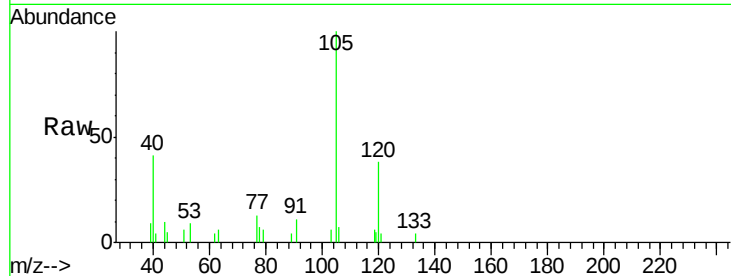


#73

1,3,5-Trimethylbenzene
Concen: 0.040 ppbv m
RT: 16.16 min Scan# 4114
Delta R.T. 0.00 min
Lab File: VL033606.D
Acq: 17 Apr 2019 17:31

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

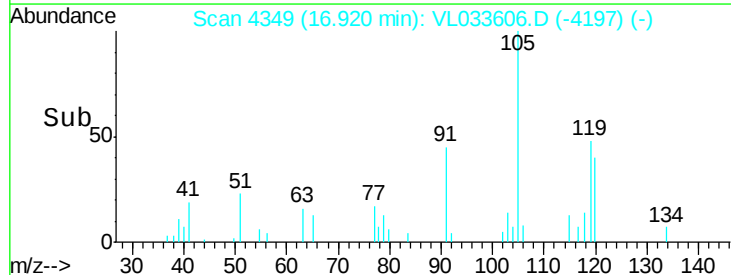
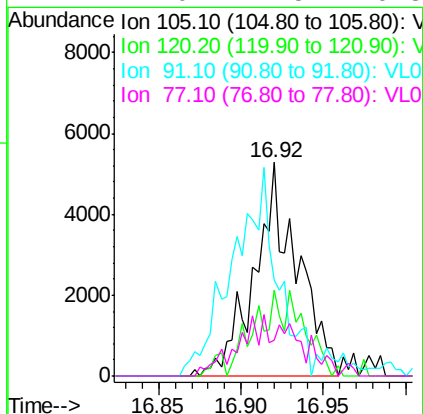
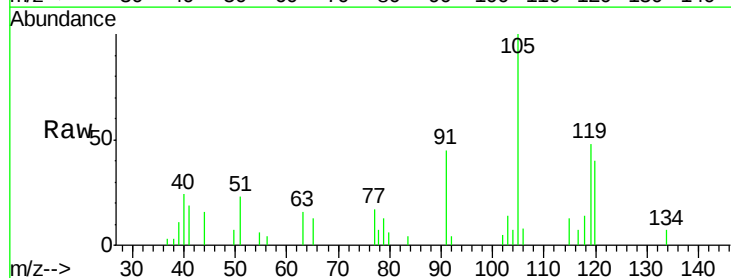
Tot Ion:105 Resp: 8875
Ion Ratio Lower Upper
105 100
120 38.0 35.7 53.5

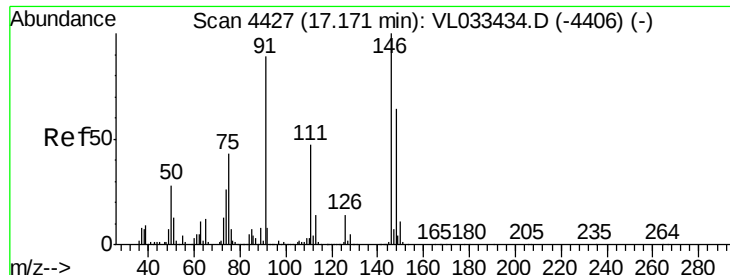


#74

1,2,4-Trimethylbenzene
Concen: 0.040 ppbv m
RT: 16.92 min Scan# 4349
Delta R.T. -0.01 min
Lab File: VL033606.D
Acq: 17 Apr 2019 17:31

Tgt Ion:105 Resp: 9484
Ion Ratio Lower Upper
105 100
120 40.3 39.0 58.6
91 44.7 40.0 60.0
77 17.0 17.5 26.3#

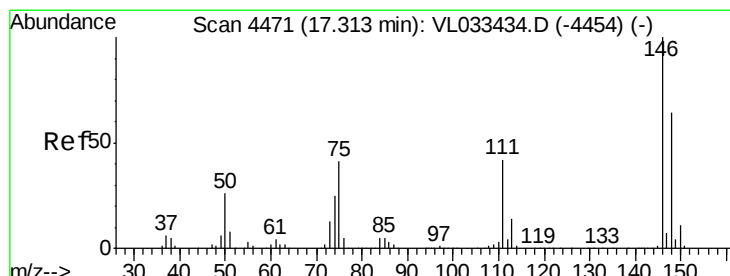
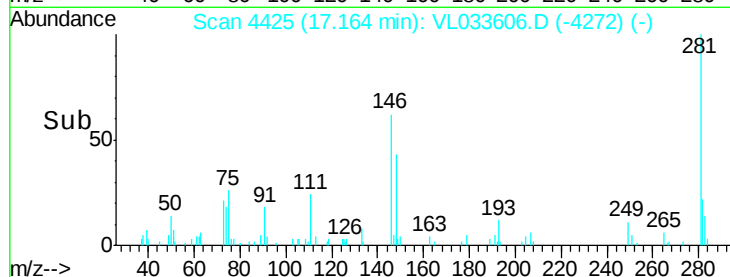
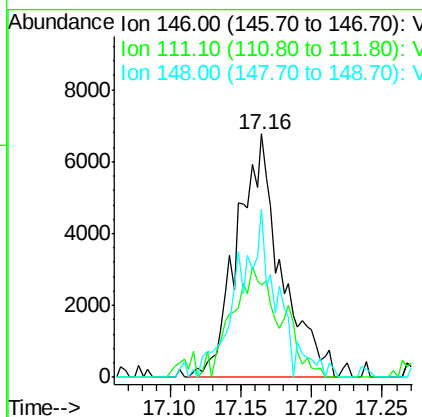
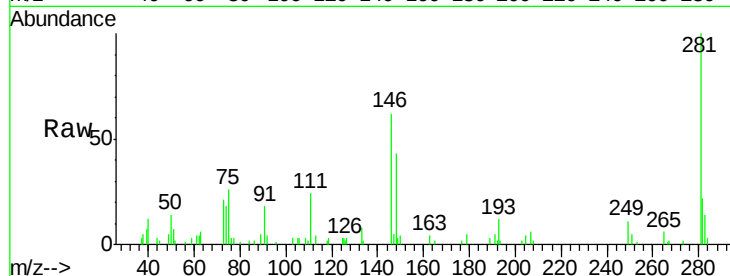




#75
 1,3-Dichlorobenzene
 Concen: 0.099 ppbv m
 RT: 17.16 min Scan# 4425
 Delta R.T. -0.01 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

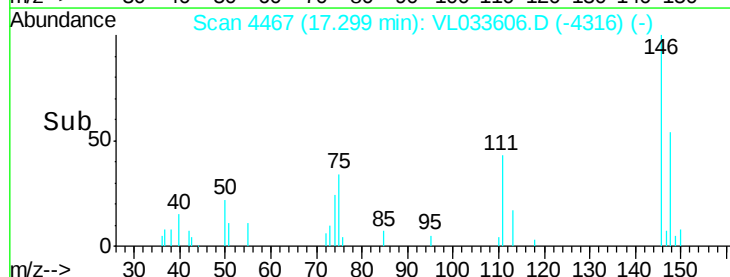
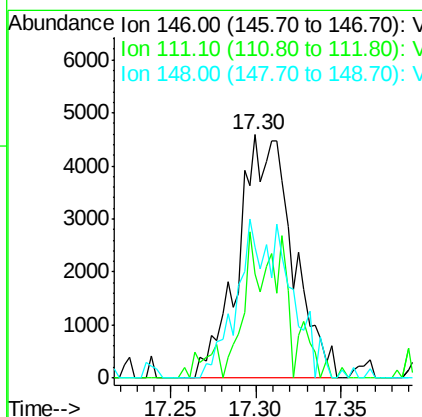
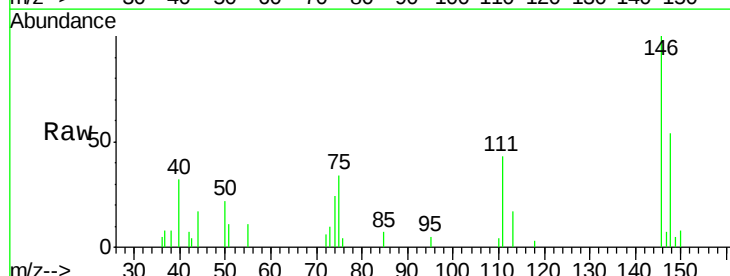
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT2-2019

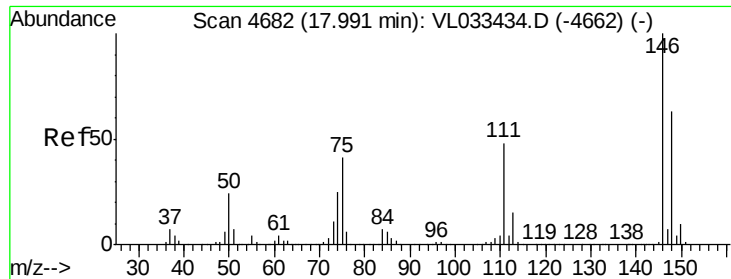
Tot Ion:146 Resp: 14612
 Ion Ratio Lower Upper
 146 100
 111 53.6 22.9 68.8
 148 62.9 32.0 96.2



#76
 1,4-Dichlorobenzene
 Concen: 0.071 ppbv m
 RT: 17.30 min Scan# 4467
 Delta R.T. -0.01 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

Tgt Ion:146 Resp: 10222
 Ion Ratio Lower Upper
 146 100
 111 48.9 21.7 65.1
 148 61.2 32.0 96.2





#77

1,2-Dichlorobenzene

Concen: 0.061 ppbv m

RT: 17.99 min Scan# 4683

Delta R.T. 0.00 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT2-2019

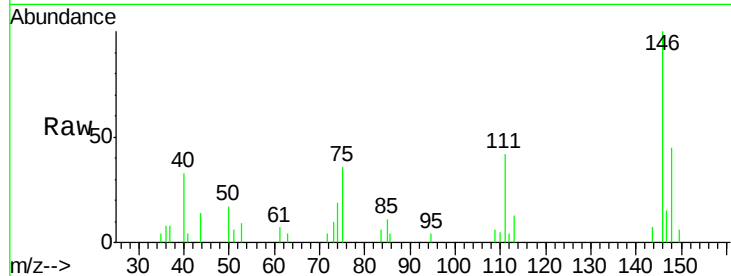
Tot Ion:146 Resp: 8524

Ion Ratio Lower Upper

146 100

111 48.3 23.5 70.5

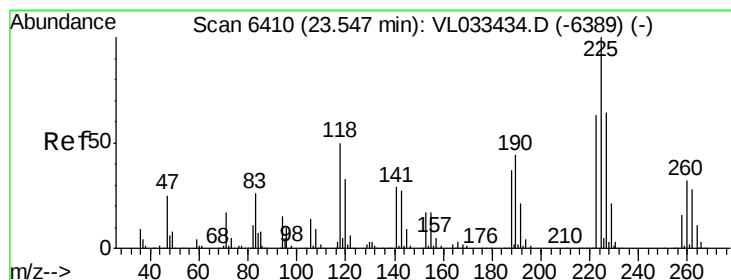
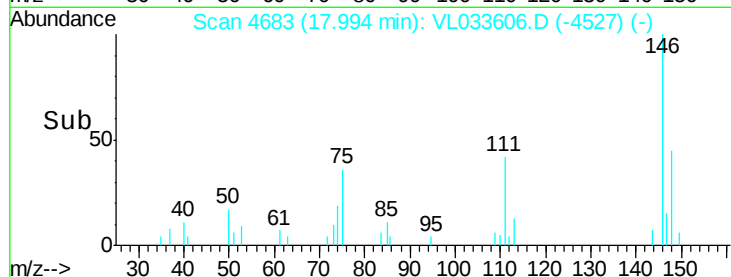
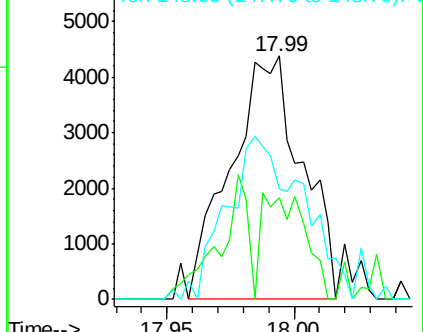
148 74.1 32.0 96.0



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



#78

Hexachloro-1,3-Butadiene

Concen: 0.112 ppbv m

RT: 23.54 min Scan# 6409

Delta R.T. -0.00 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

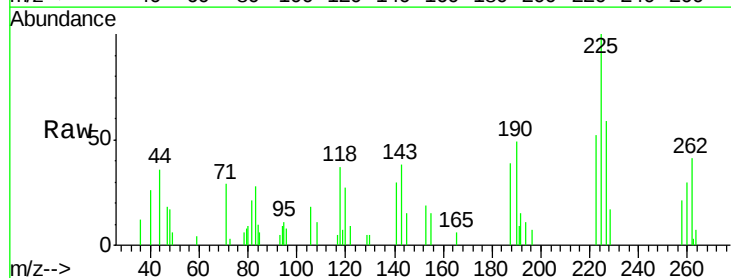
Tgt Ion:225 Resp: 10465

Ion Ratio Lower Upper

225 100

223 0.0 50.0 75.0#

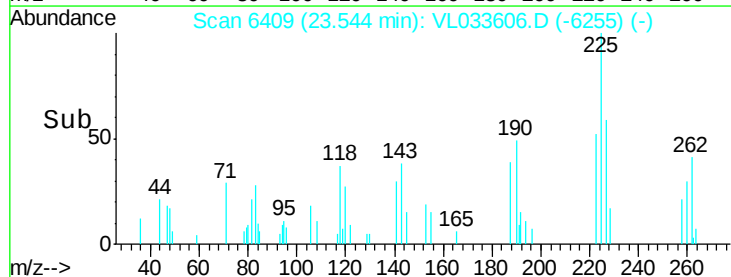
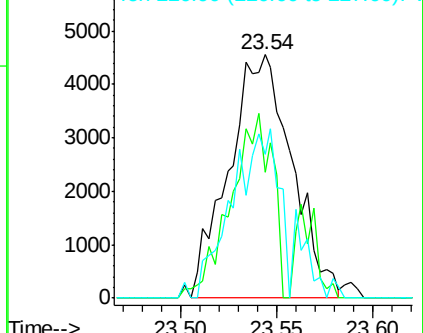
227 0.0 51.1 76.7#

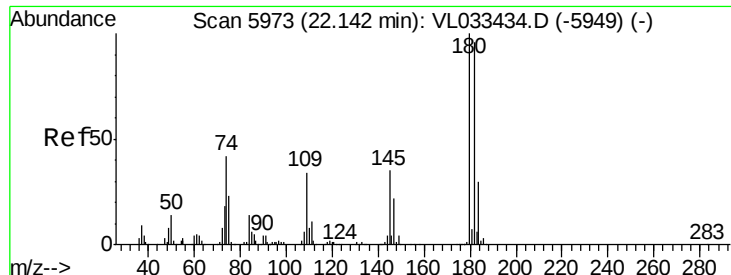


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#81

1,2,4-Trichlorobenzene

Concen: 0.037 ppbv m

RT: 22.14 min Scan# 5972

Delta R.T. -0.00 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT2-2019

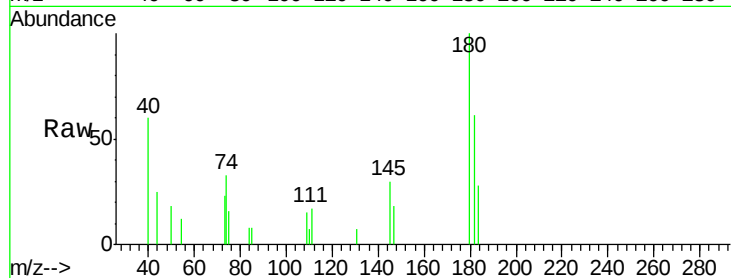
Tot Ion:180 Resp: 4259

Ion Ratio Lower Upper

180 100

182 0.0 77.0 115.4#

184 0.0 24.6 36.8#



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

