

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 18 05:40:18 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

						Qvalue
2) Dichlorodifluoromethane	3.22	85	13384	0.120	ppbv	92
3) Chlorodifluoromethane	3.01	51	10642	0.121	ppbv	99
4) Chloromethane	3.17	50	5454	0.118	ppbv	89
5) Vinyl Chloride	3.29	62	2940	0.064	ppbv	89
6) Bromomethane	3.51	94	3014	0.103	ppbv	93
7) Chloroethane	3.60	64	1431	0.084	ppbv #	88
8) Dichlorotetrafluoroethane	3.22	85	13384	0.113	ppbv	96
9) Propene	3.04	41	3627	0.098	ppbv #	76
11) Trichlorofluoromethane	4.00	101	15613	0.114	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.55	101	11053	0.120	ppbv	93
13) Ethanol	3.67	45	1855	0.195	ppbv #	51
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	3687	0.093	ppbv #	51
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	4.47	41	3116	0.054	ppbv #	18
22) trans-1,2-Dichloroethene	4.95	96	1921	0.047	ppbv #	57
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	3669	0.049	ppbv #	1
27) Carbon Disulfide	4.62	76	5019	0.056	ppbv #	35
29) Chloroform	5.85	83	13168	0.102	ppbv	90
31) cis-1,2-Dichloroethene	5.63	61	3968	0.053	ppbv #	73
32) 1,1,1-Trichloroethane	6.61	97	4508	0.037	ppbv #	22
34) 2-Butanone	5.35	43	8564	0.080	ppbv	96
35) Carbon Tetrachloride	7.13	117	8462	0.067	ppbv #	81
36) Benzene	7.00	78	6124	0.041	ppbv	97
37) 1,2-Dichloroethane	6.41	62	5383	0.053	ppbv #	75
39) 1,2-Dichloropropane	7.29	63	473326	8.048	ppbv #	24
42) Bromodichloromethane	7.92	83	8174	0.060	ppbv #	86
44) 2,2,4-Trimethylpentane	7.99	57	13737	0.052	ppbv #	73
45) t-1,3-Dichloropropene	9.41	75	3292	0.044	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	4535	0.068	ppbv #	62
48) Dibromochloromethane	10.45	129	3945	0.035	ppbv #	19
49) Bromoform	13.19	173	6570	0.061	ppbv	91
51) 2-Hexanone	10.31	43	4397	0.037	ppbv #	91
52) Tetrachloroethene	11.36	164	1967	0.035	ppbv #	17
53) Toluene	9.94	91	7189	0.041	ppbv #	83
57) Chlorobenzene	12.30	112	6152	0.044	ppbv #	76

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL041719\
Quantitation Report (Not Reviewed)

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

Quant Time: Apr 18 05:40:18 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

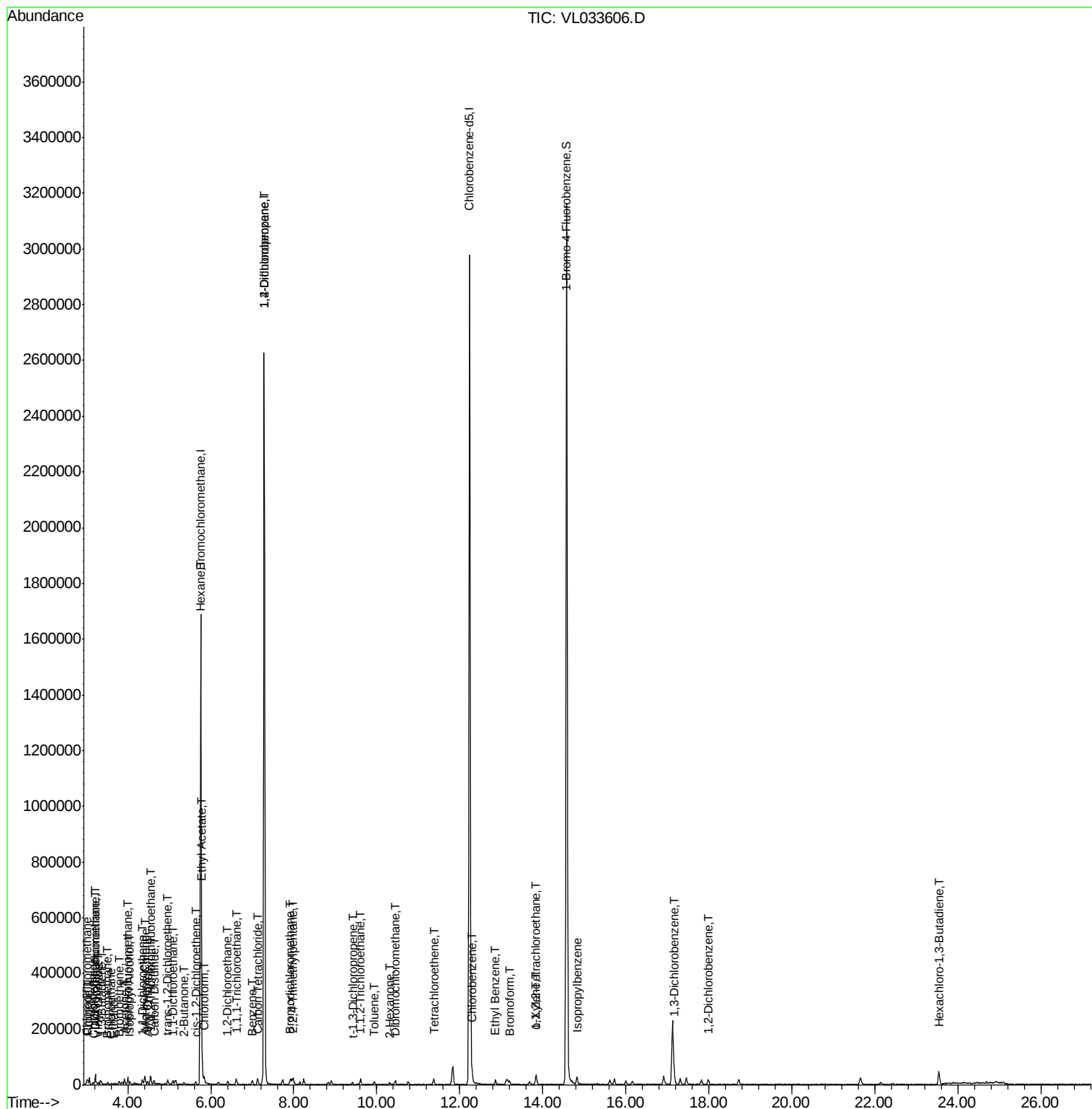
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) Ethyl Benzene	12.86	91	11789	0.049	ppbv	96
60) o-Xylene	13.84	91	8715	0.042	ppbv	87
62) Isopropylbenzene	14.82	105	18666	0.063	ppbv	90
63) 1,1,2,2-Tetrachloroethane	13.83	83	6292	0.041	ppbv #	14
75) 1,3-Dichlorobenzene	17.16	146	8206	0.055	ppbv #	33
77) 1,2-Dichlorobenzene	17.98	146	5116	0.036	ppbv #	35
78) Hexachloro-1,3-Butadiene	23.53	225	4494	0.048	ppbv #	19

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

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

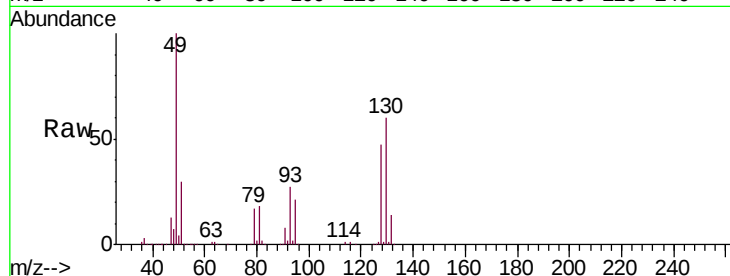
Tgt Ion: 49 Resp: 761902

Ion Ratio Lower Upper

49 100

128 49.2 24.0 72.0

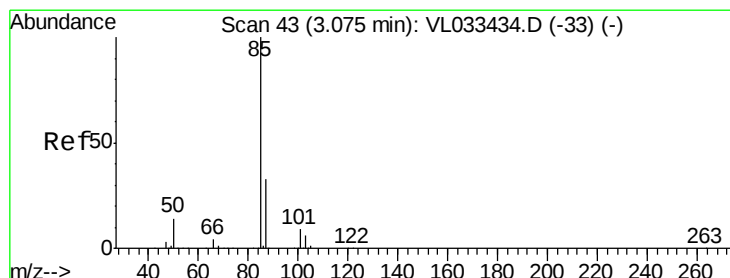
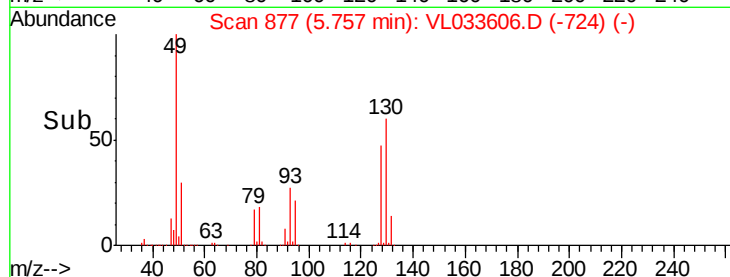
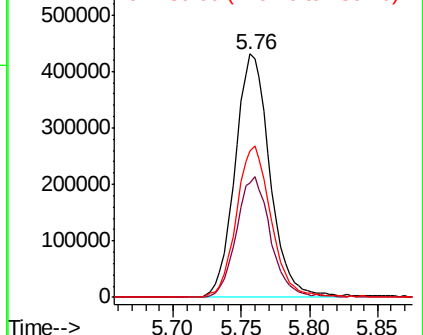
130 62.5 31.2 93.6



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.120 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.14 min

Lab File: VL033606.D

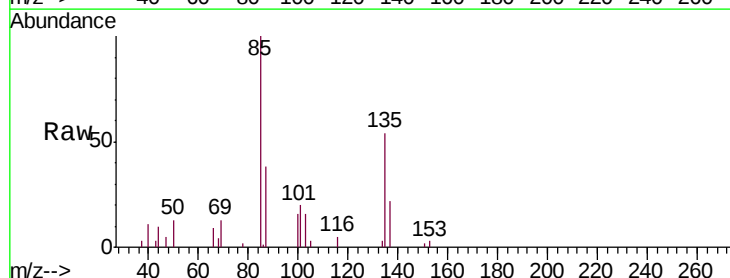
Acq: 17 Apr 2019 17:31

Tgt Ion: 85 Resp: 13384

Ion Ratio Lower Upper

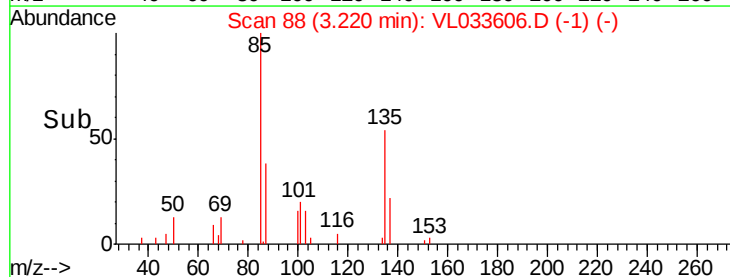
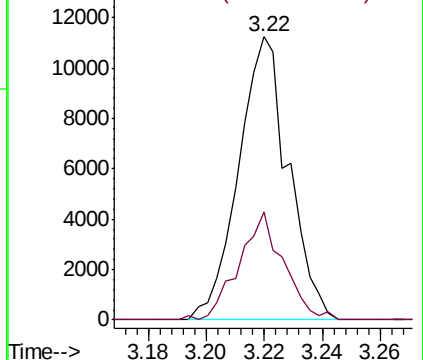
85 100

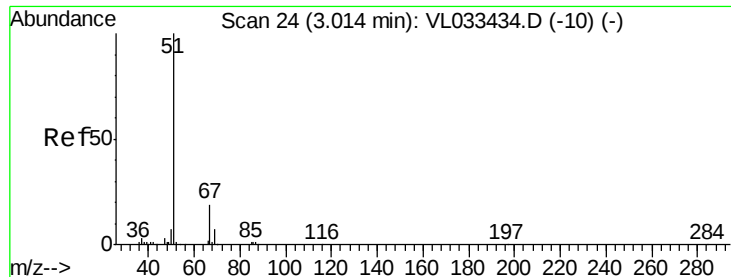
87 38.0 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

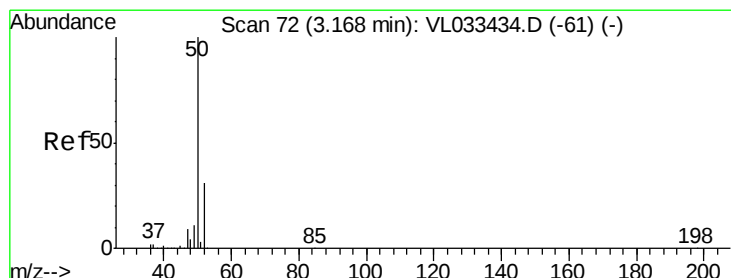
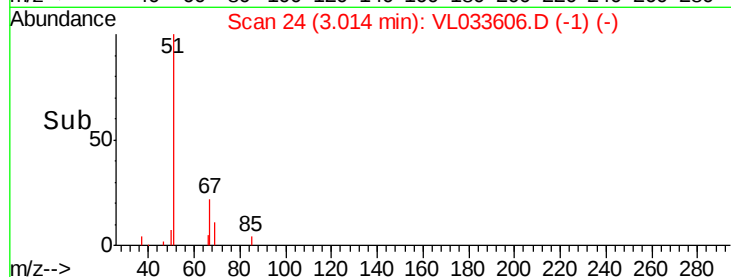
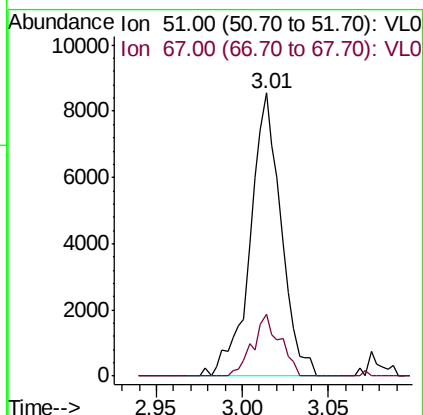
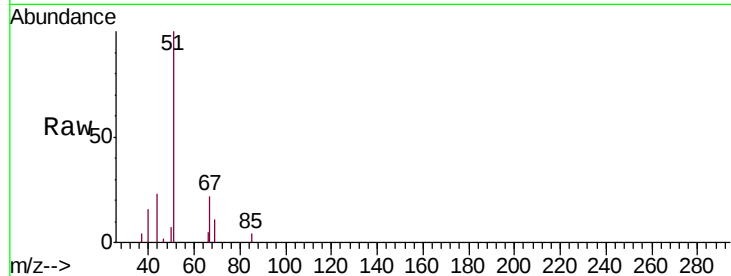




#3
Chlorodifluoromethane
Concen: 0.121 ppbv
RT: 3.01 min Scan# 24
Delta R.T. -0.00 min
Lab File: VL033606.D
Acq: 17 Apr 2019 17:31

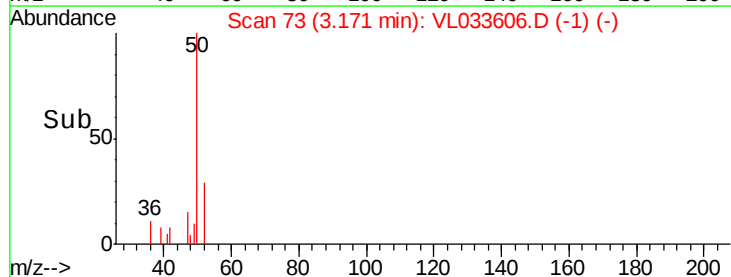
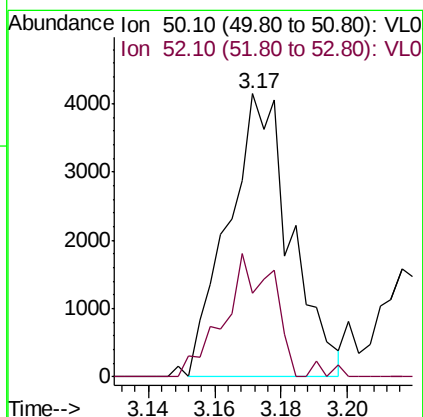
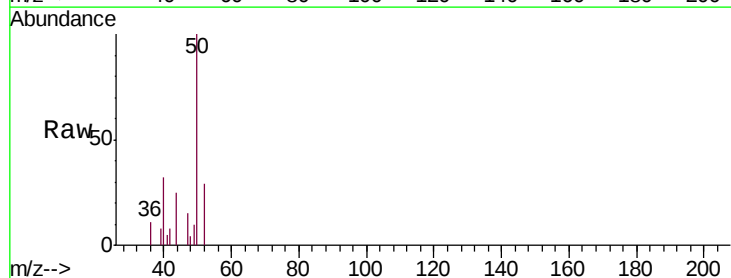
Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

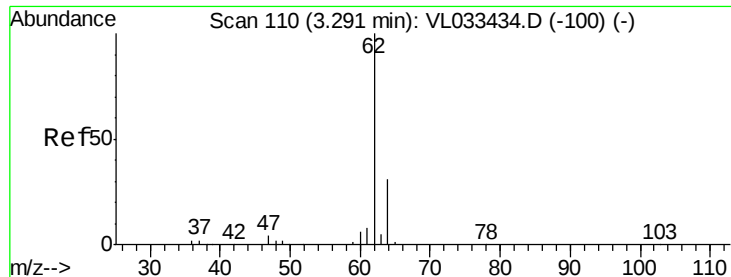
Tgt Ion: 51 Resp: 10642
Ion Ratio Lower Upper
51 100
67 19.2 15.7 23.5



#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





#5

Vinyl Chloride

Concen: 0.064 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

Instrument :

MSVOA_L

ClientSampleId :

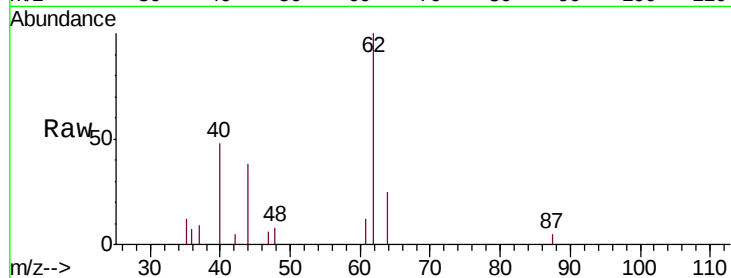
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 62 Resp: 2940

Ion Ratio Lower Upper

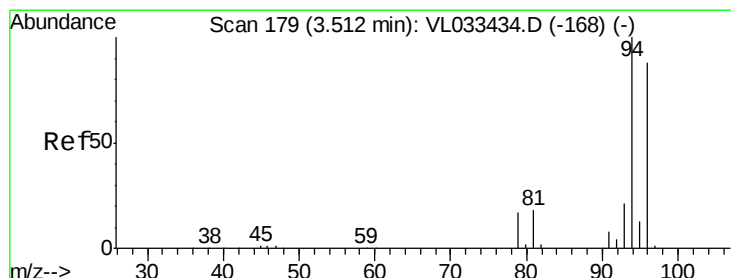
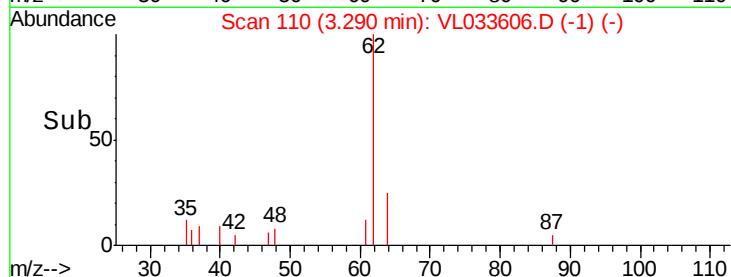
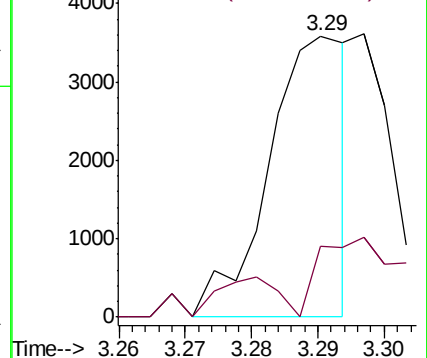
62 100

64 25.3 24.9 37.3



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.103 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033606.D

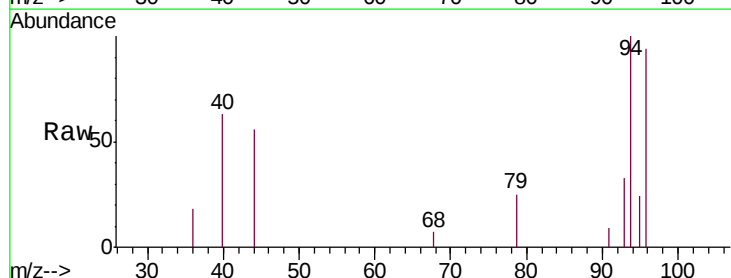
Acq: 17 Apr 2019 17:31

Tgt Ion: 94 Resp: 3014

Ion Ratio Lower Upper

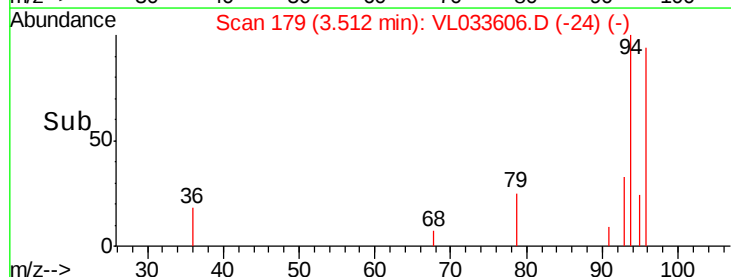
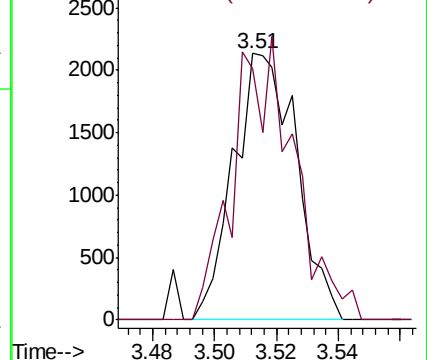
94 100

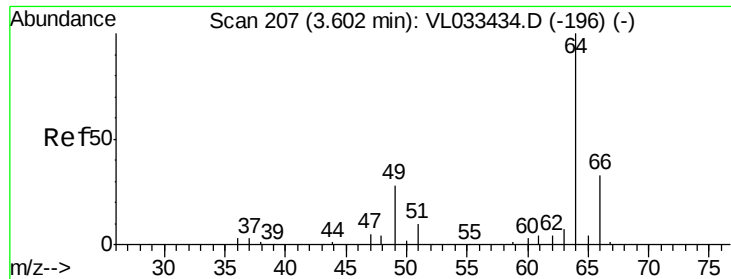
96 94.2 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.084 ppbv

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 :

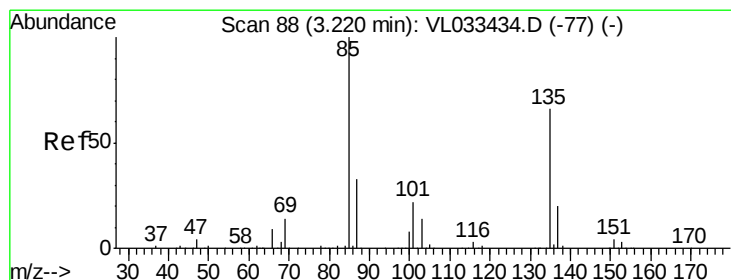
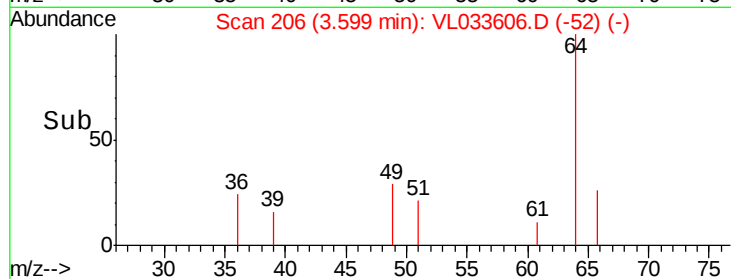
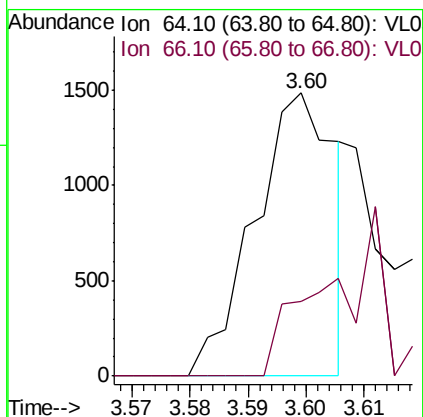
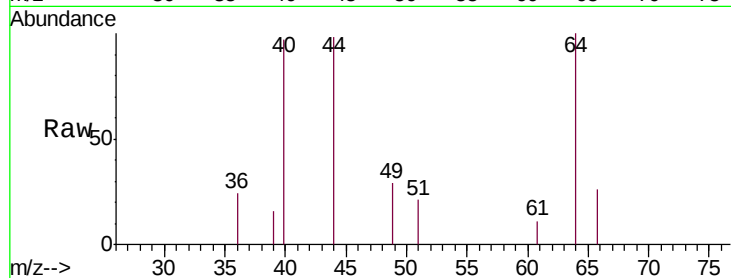
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 64 Resp: 1431

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

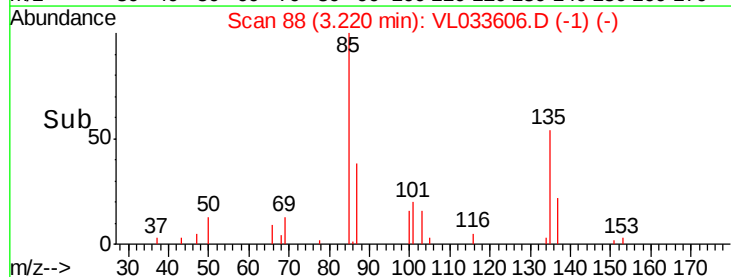
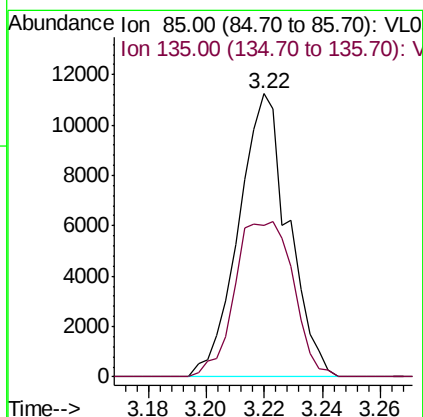
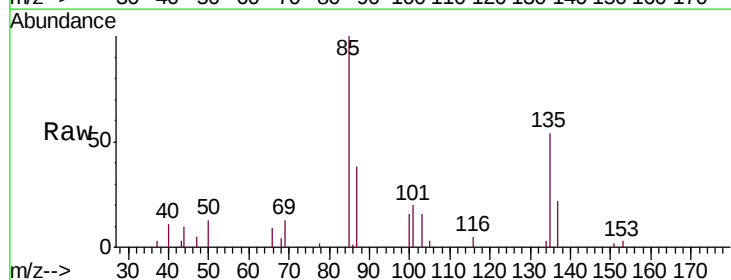
Acq: 17 Apr 2019 17:31

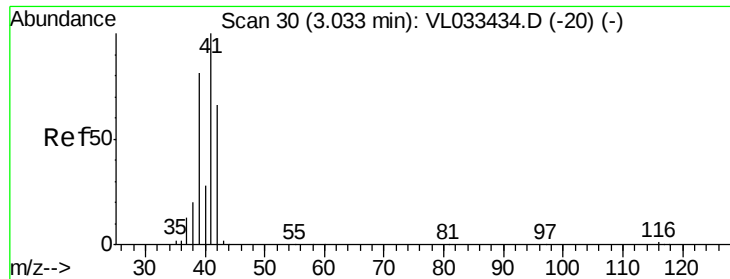
Tgt Ion: 85 Resp: 13384

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 :

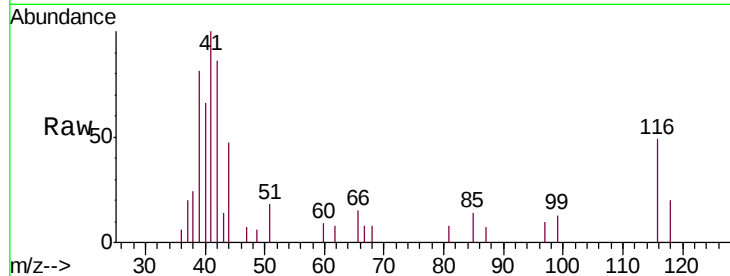
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 41 Resp: 3627

Ion Ratio Lower Upper

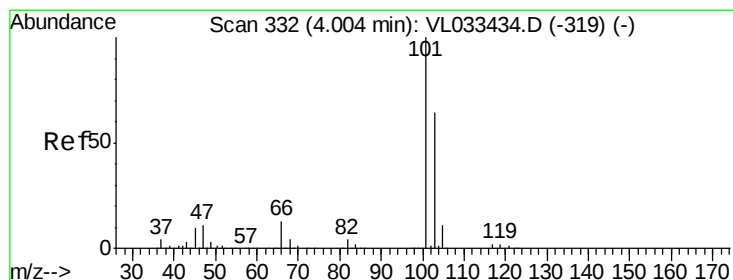
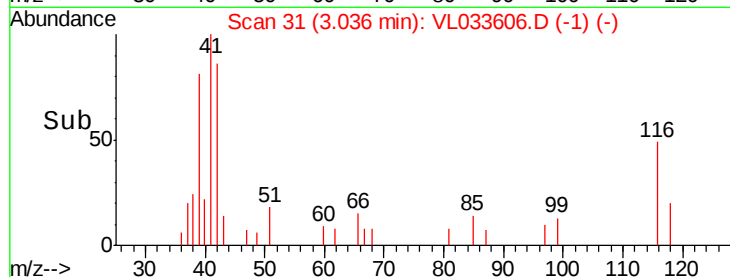
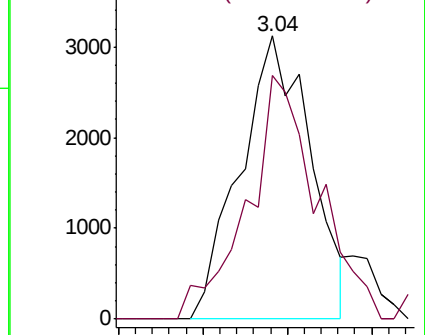
41 100

42 86.8 53.9 80.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.114 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL033606.D

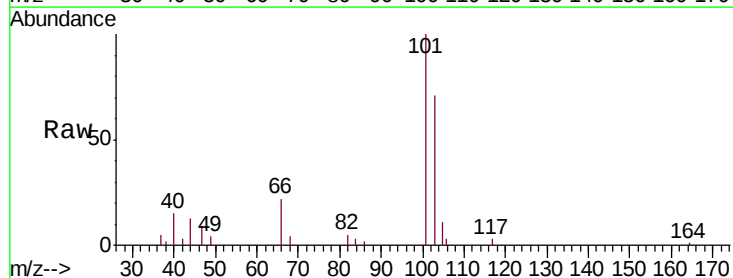
Acq: 17 Apr 2019 17:31

Tgt Ion: 101 Resp: 15613

Ion Ratio Lower Upper

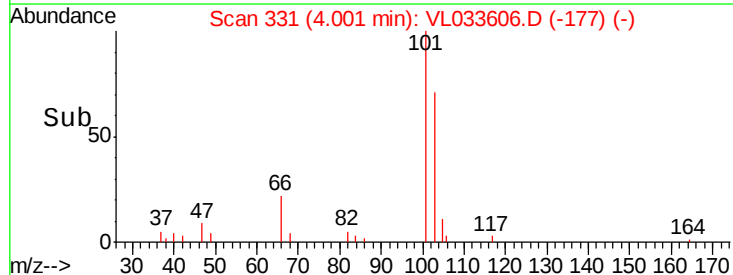
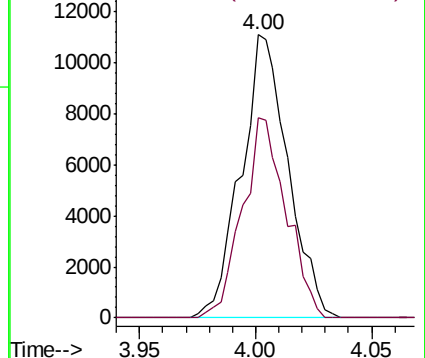
101 100

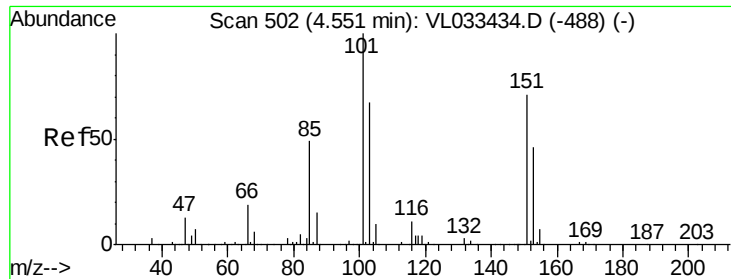
103 70.6 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.120 ppbv

RT: 4.55 min Scan# 502

Delta R.T. -0.00 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

Instrument :

MSVOA_L

ClientSampleId :

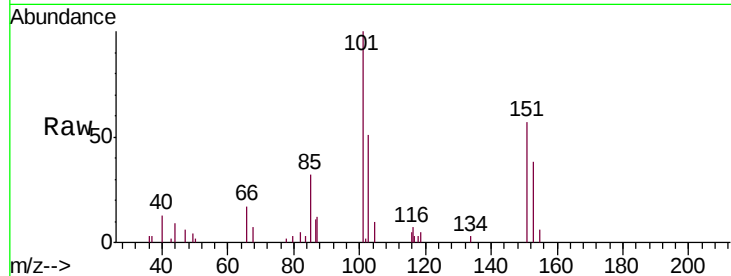
MDL-MDL-AIR-03-QT2-2019

Tgt Ion:101 Resp: 11053

Ion Ratio Lower Upper

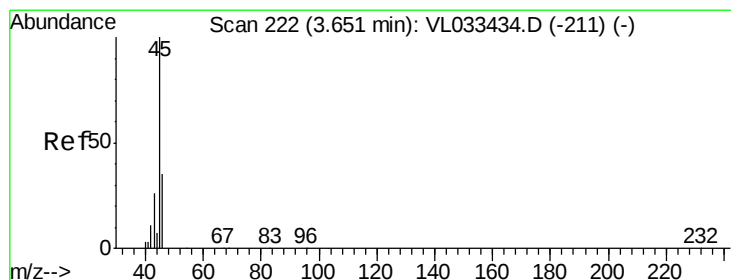
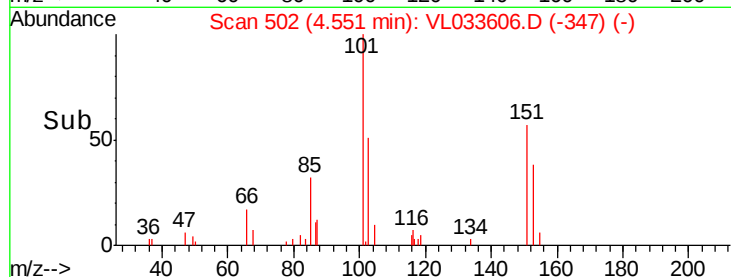
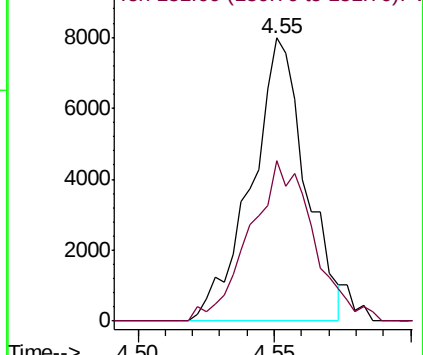
101 100

151 66.5 57.7 86.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 0.195 ppbv

RT: 3.67 min Scan# 228

Delta R.T. 0.02 min

Lab File: VL033606.D

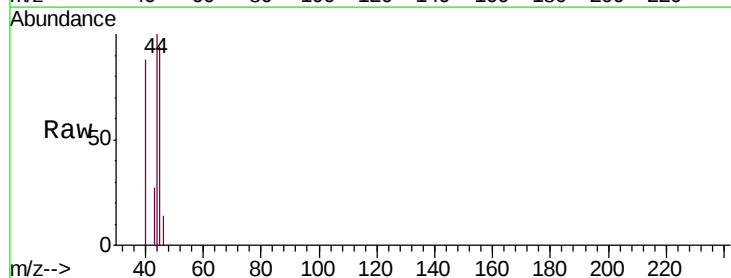
Acq: 17 Apr 2019 17:31

Tgt Ion: 45 Resp: 1855

Ion Ratio Lower Upper

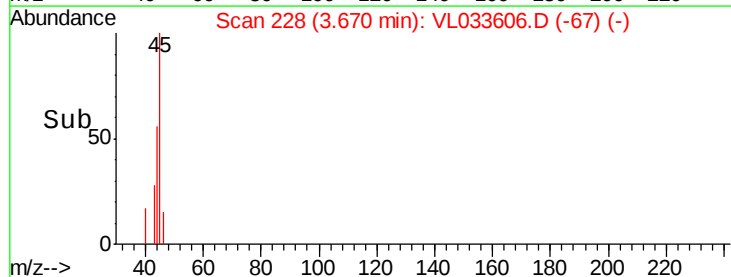
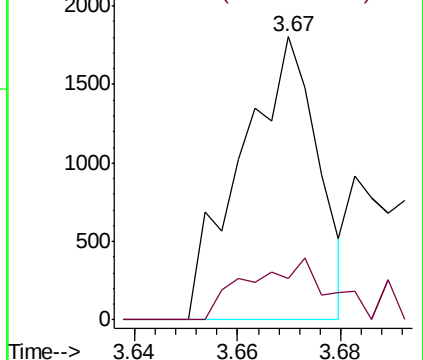
45 100

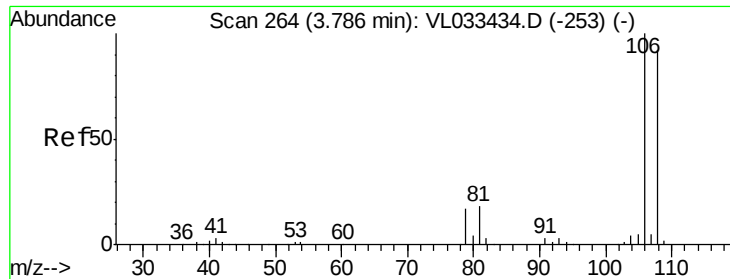
46 25.2 25.4 101.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

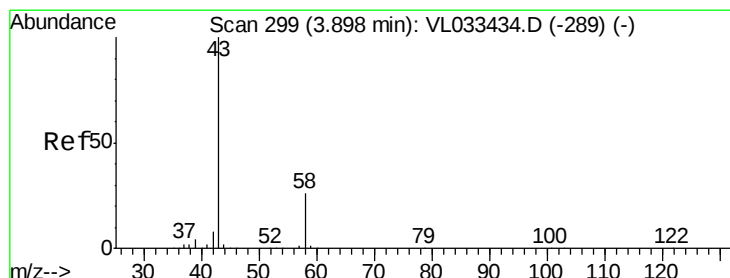
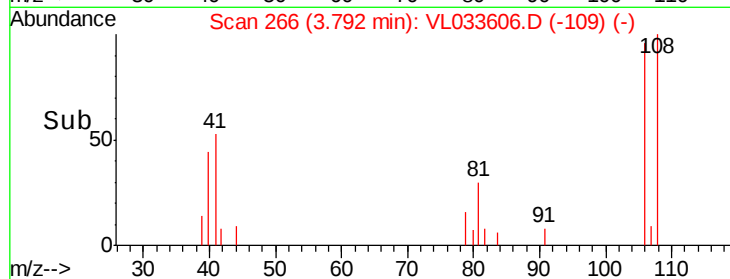
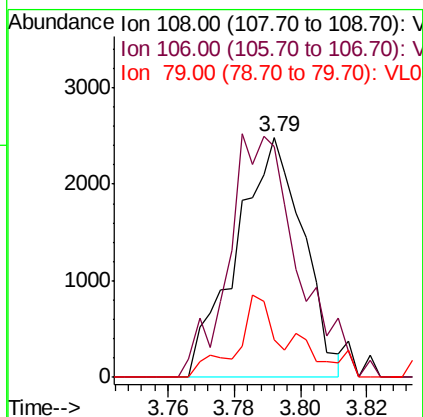
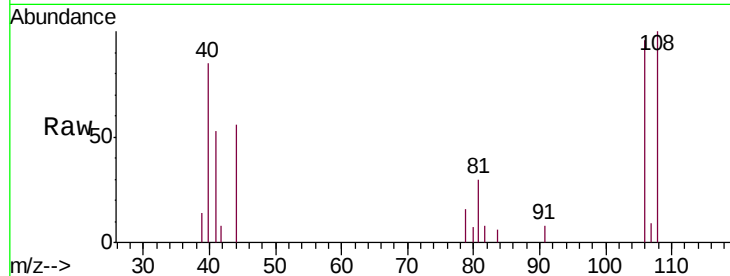




#14
Bromoethene
Concen: 0.095 ppbv
RT: 3.79 min Scan# 266
Delta R.T. 0.01 min
Lab File: VL033606.D
Acq: 17 Apr 2019 17:31

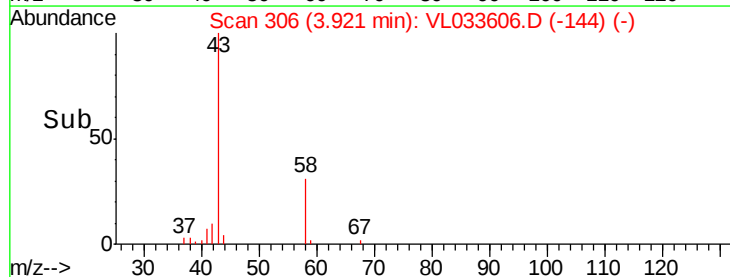
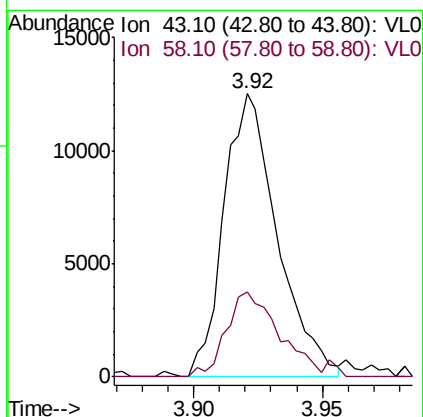
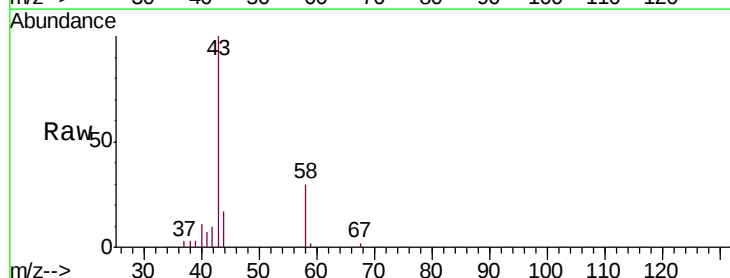
Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

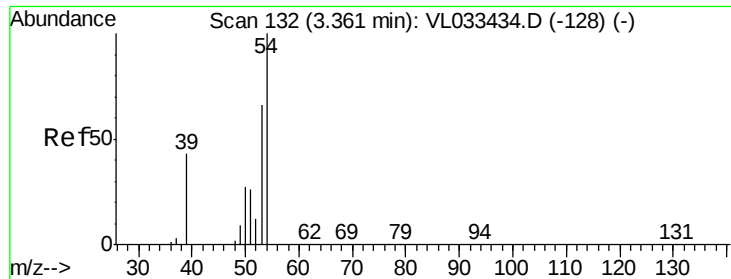
Tgt Ion: 108 Resp: 3486
Ion Ratio Lower Upper
108 100
106 104.9 86.4 129.6
79 27.7 15.8 23.8#



#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#

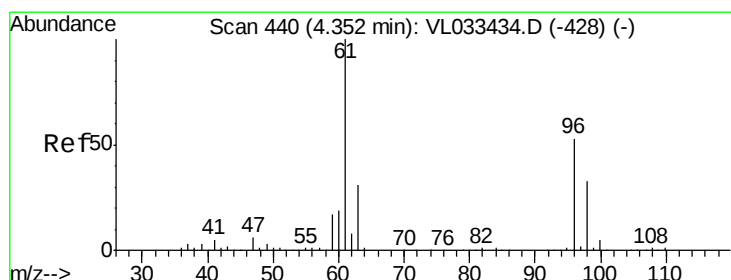
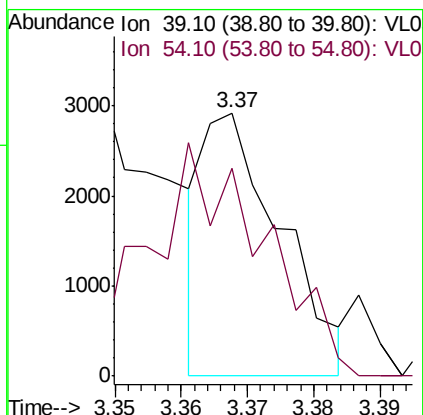
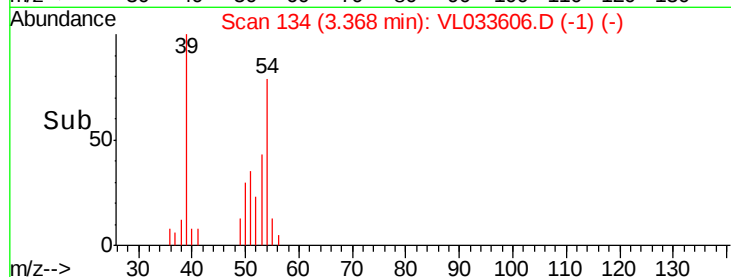
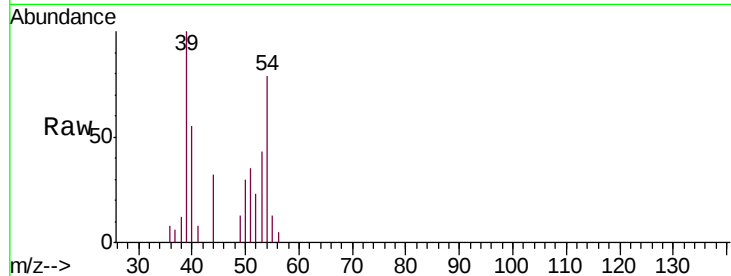




#16
 1,3-Butadiene
 Concen: 0.065 ppbv
 RT: 3.37 min Scan# 134
 Delta R.T. 0.01 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

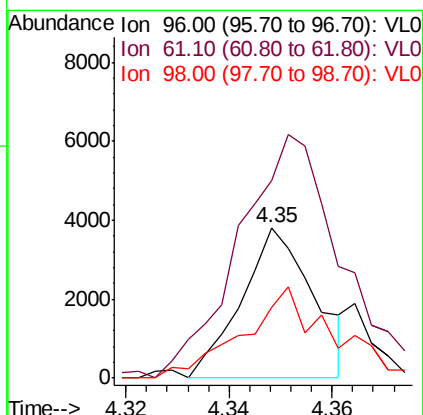
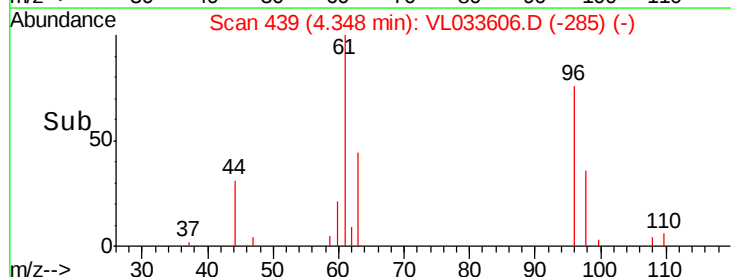
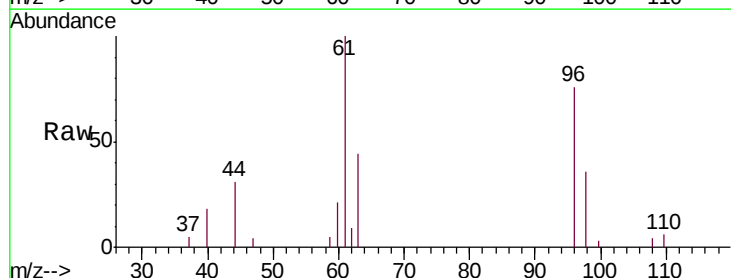
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT2-2019

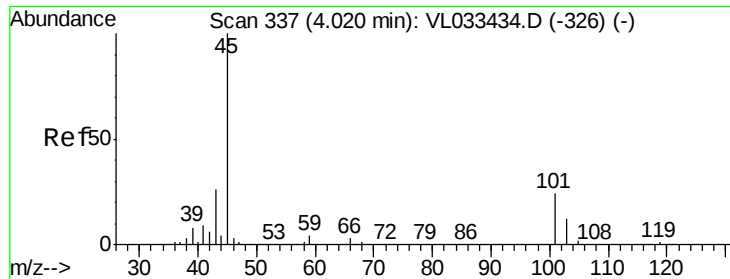
Tgt Ion: 39 Resp: 2375
 Ion Ratio Lower Upper
 39 100
 54 135.5 69.4 104.2#



#18
 1,1-Dichloroethene
 Concen: 0.093 ppbv
 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: 3687
 Ion Ratio Lower Upper
 96 100
 61 105.1 149.8 224.6#
 98 40.6 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 :

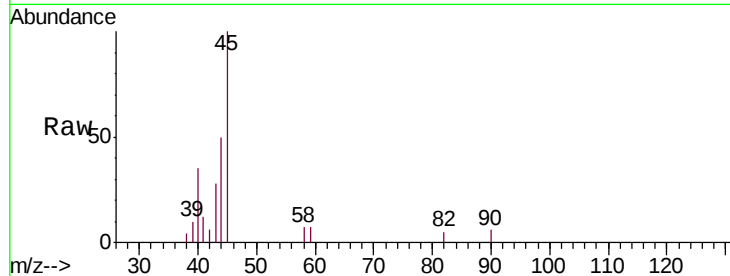
MDL-MDL-AIR-03-QT2-2019

Tgt 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

4000

3000

2000

1000

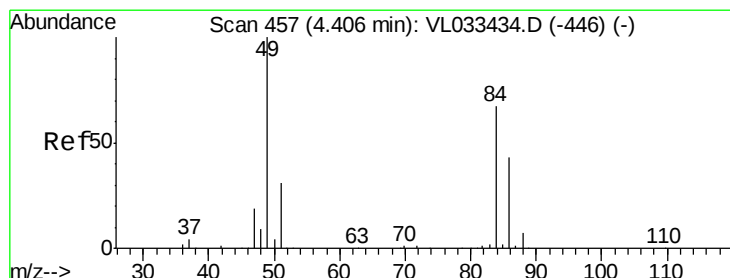
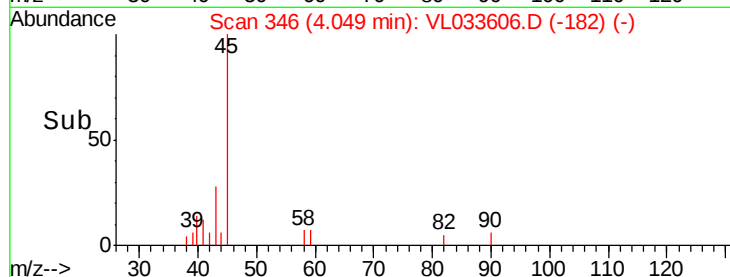
0

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

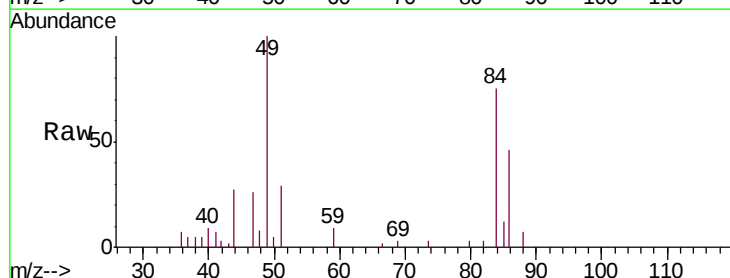
Ion Ratio Lower Upper

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

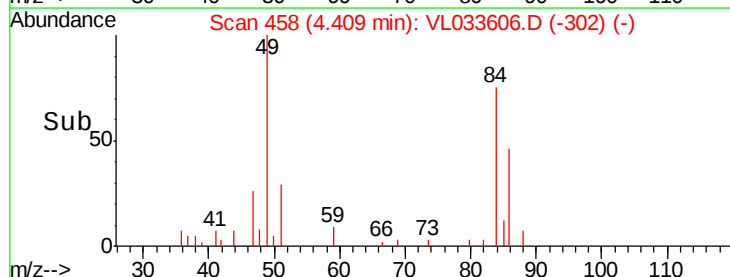
0

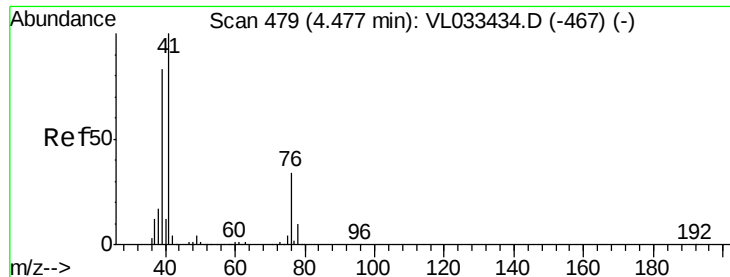
Time-->

4.40

4.41

4.42

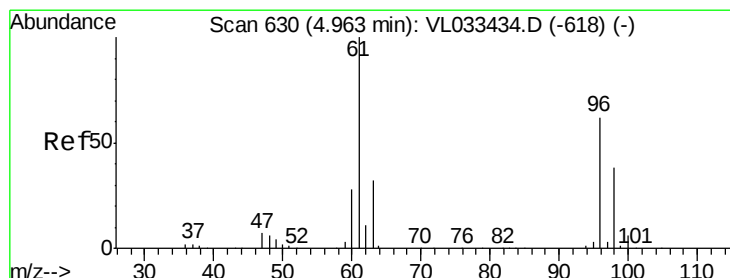
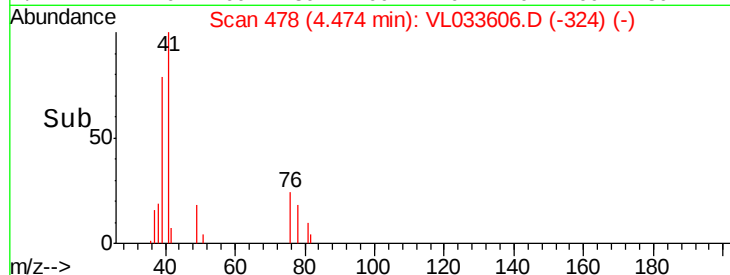
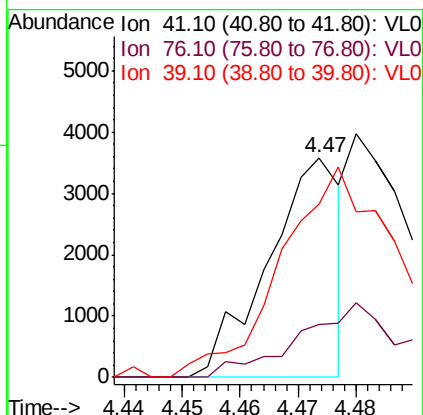
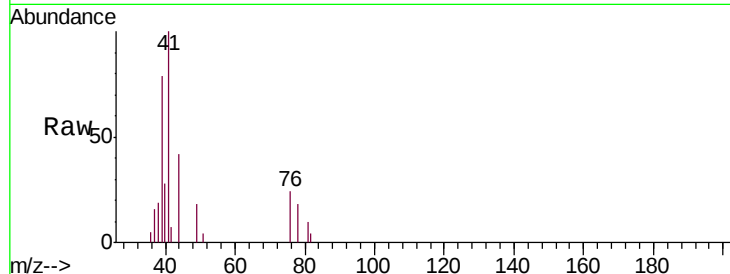




#21
 Allyl Chloride
 Concen: 0.054 ppbv
 RT: 4.47 min Scan# 478
 Delta R.T. -0.00 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

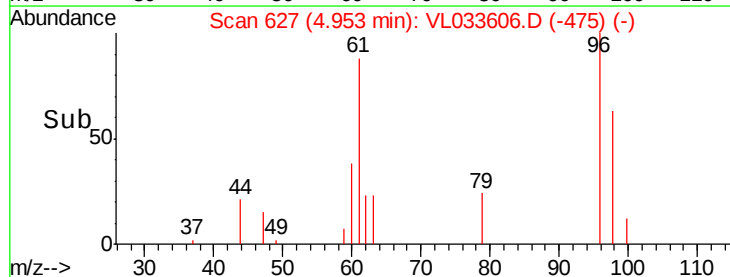
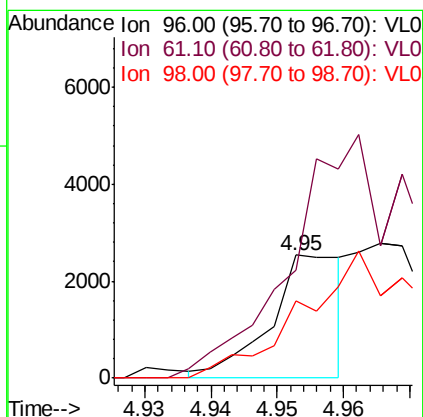
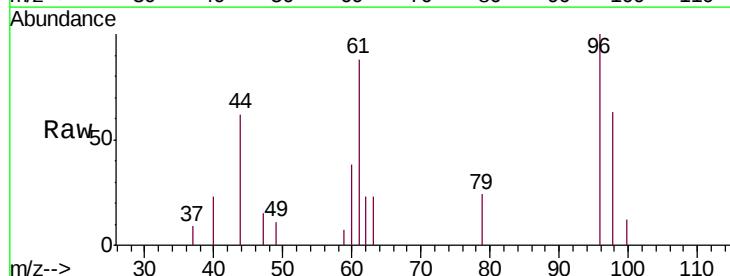
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT2-2019

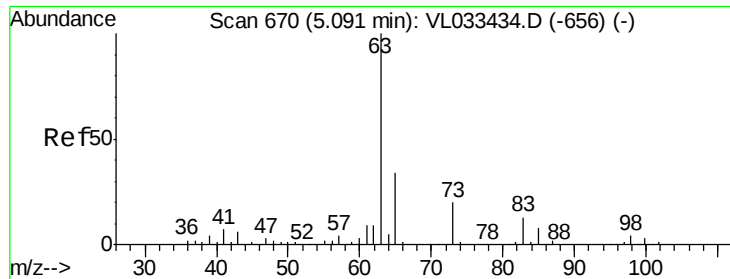
Tgt Ion: 41 Resp: 3116
 Ion Ratio Lower Upper
 41 100
 76 0.0 25.4 38.2#
 39 0.0 65.3 97.9#



#22
 trans-1,2-Dichloroethene
 Concen: 0.047 ppbv
 RT: 4.95 min Scan# 627
 Delta R.T. -0.01 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

Tgt Ion: 96 Resp: 1921
 Ion Ratio Lower Upper
 96 100
 61 85.7 128.9 193.3#
 98 67.1 49.5 74.3





#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

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT2-2019

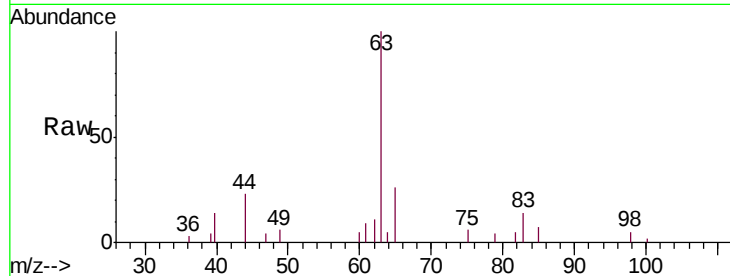
Tgt Ion: 63 Resp: 10623

Ion Ratio Lower Upper

63 100

98 5.0 2.2 6.6

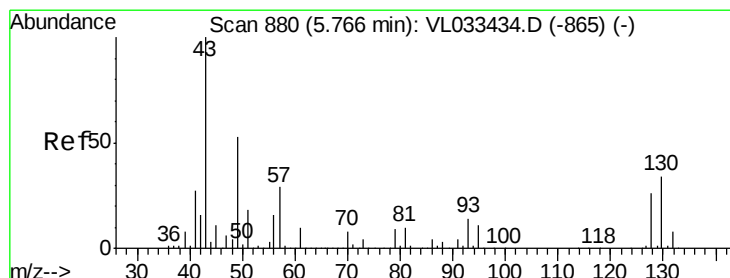
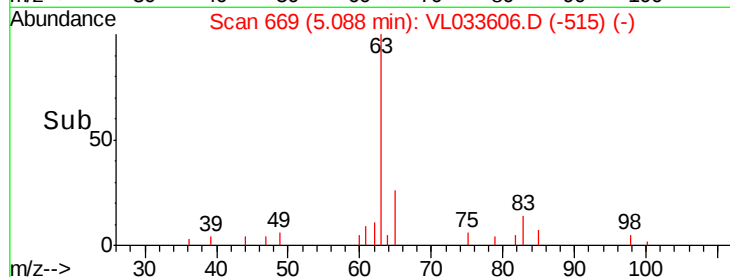
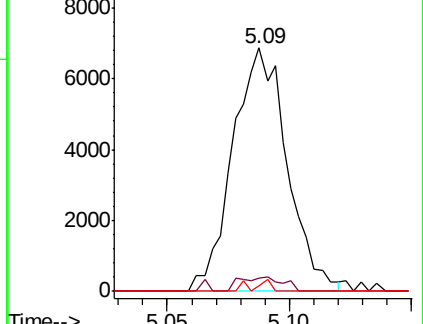
100 2.2 1.5 4.4



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

Tgt Ion: 43 Resp: 15649

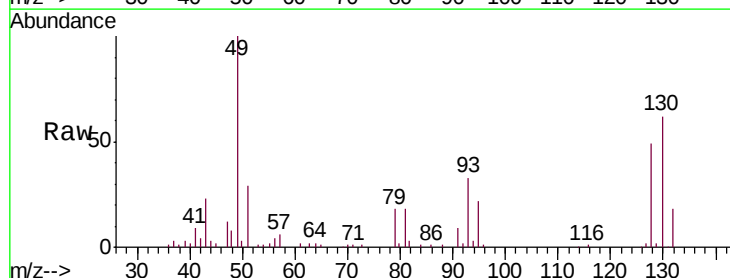
Ion Ratio Lower Upper

43 100

45 13.1 7.8 11.6#

61 7.0 7.3 10.9#

70 5.8 5.6 8.4

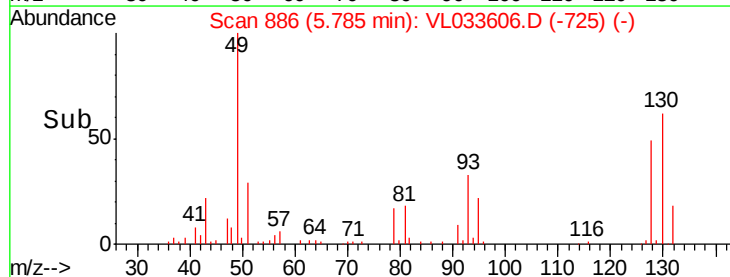
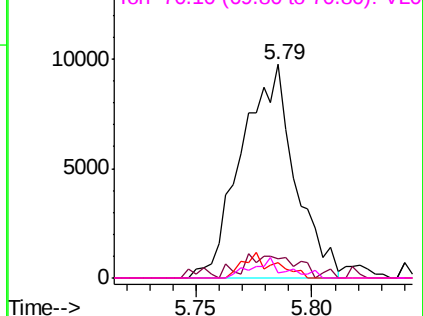


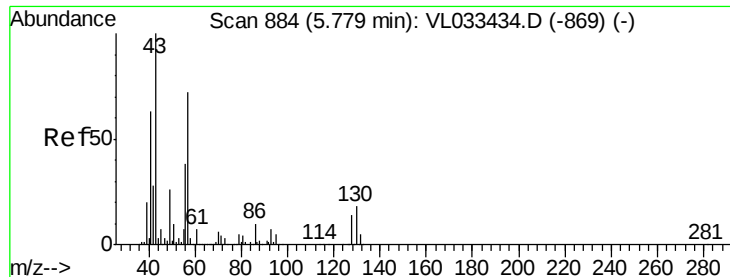
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.049 ppbv

RT: 5.77 min Scan# 882

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

Tgt Ion: 57 Resp: 3669

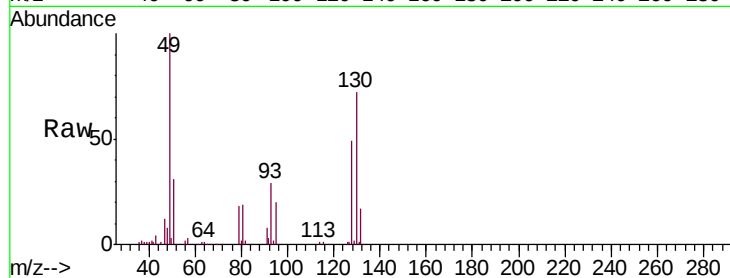
Ion Ratio Lower Upper

57 100

41 0.0 70.7 106.1#

43 0.0 182.6 274.0#

56 0.0 42.0 63.0#

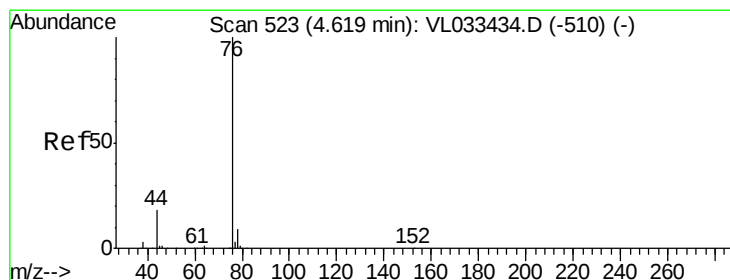
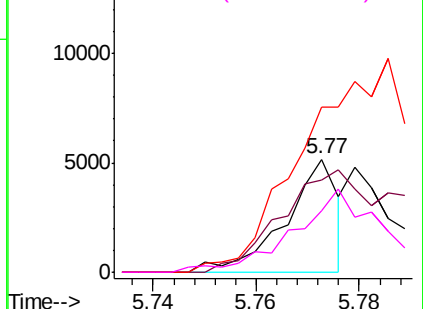
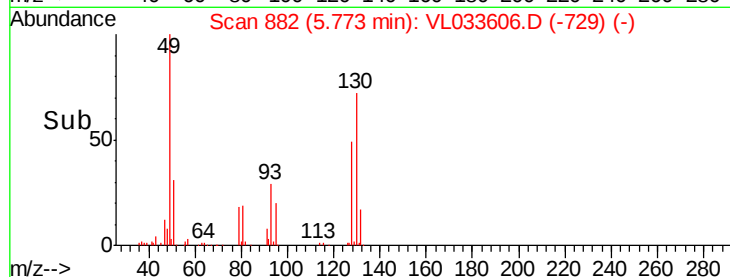


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.056 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.01 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

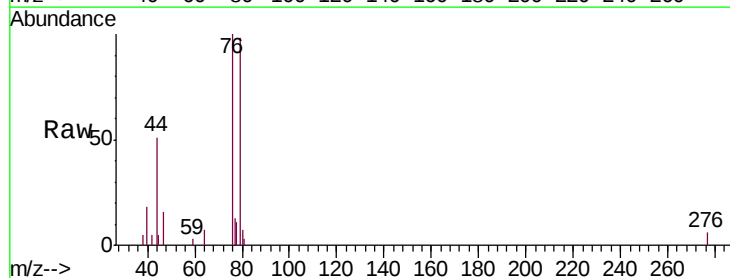
Tgt Ion: 76 Resp: 5019

Ion Ratio Lower Upper

76 100

44 57.0 14.8 22.2#

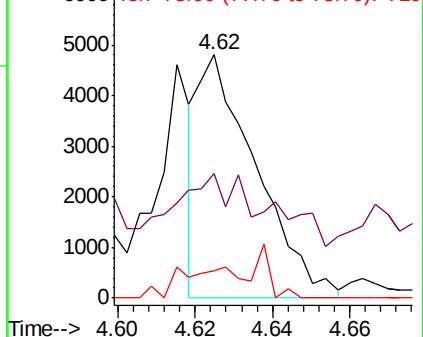
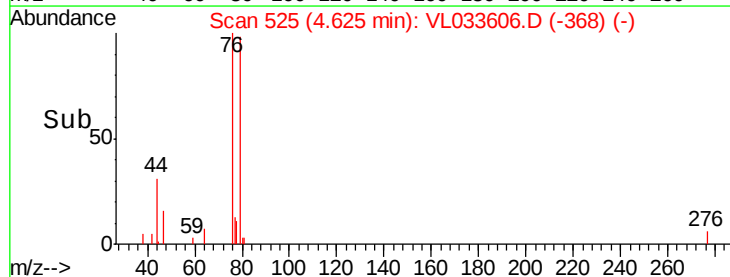
78 18.8 7.6 11.4#

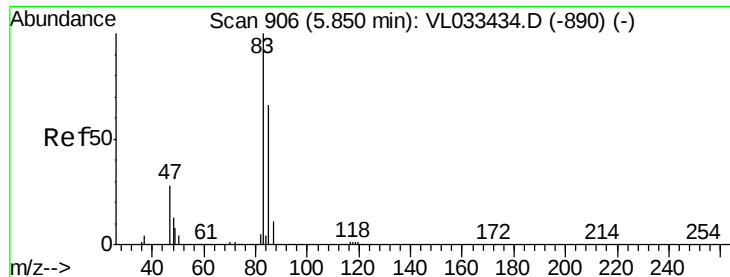


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





#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 :

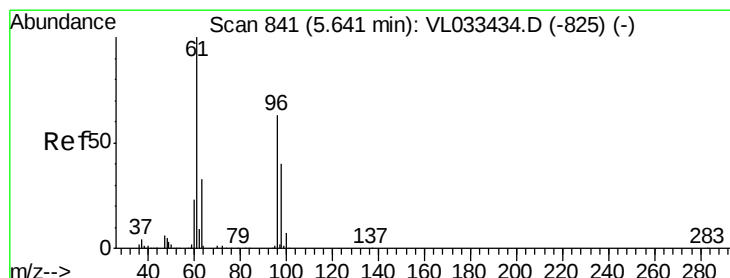
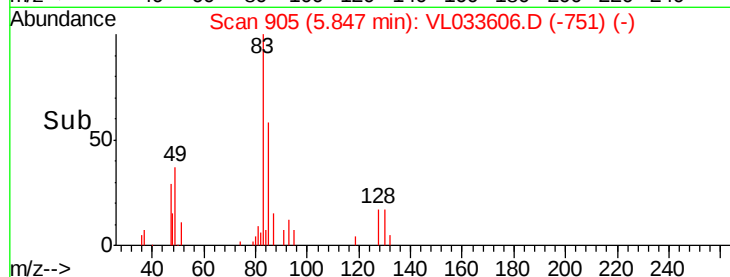
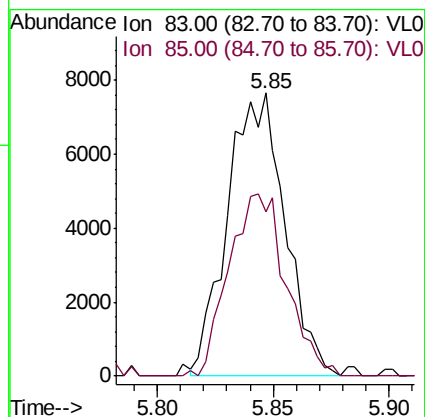
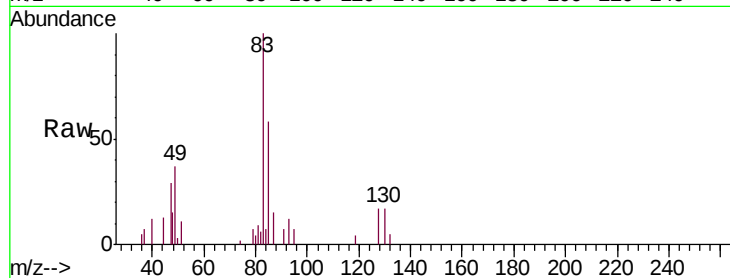
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 83 Resp: 13168

Ion Ratio Lower Upper

83 100

85 58.1 52.6 79.0



#31

cis-1,2-Dichloroethene

Concen: 0.053 ppbv

RT: 5.63 min Scan# 839

Delta R.T. -0.01 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

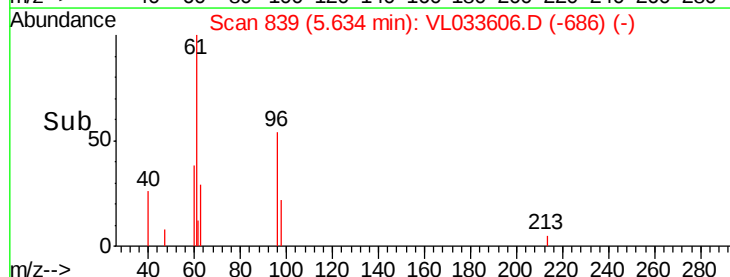
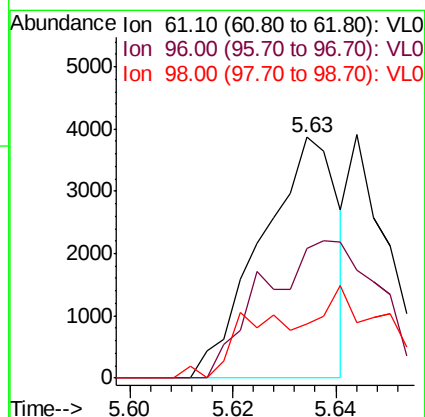
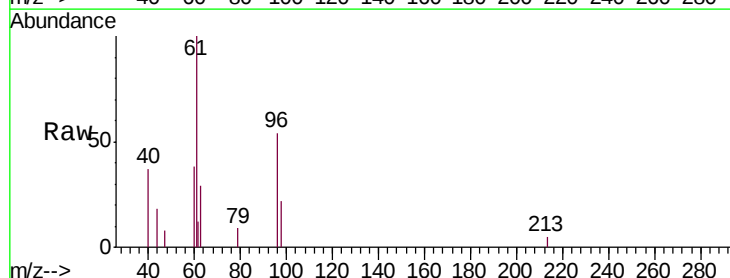
Tgt Ion: 61 Resp: 3968

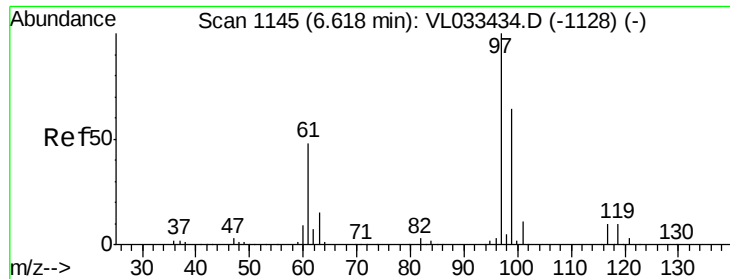
Ion Ratio Lower Upper

61 100

96 48.2 50.6 76.0#

98 15.7 32.2 48.2#

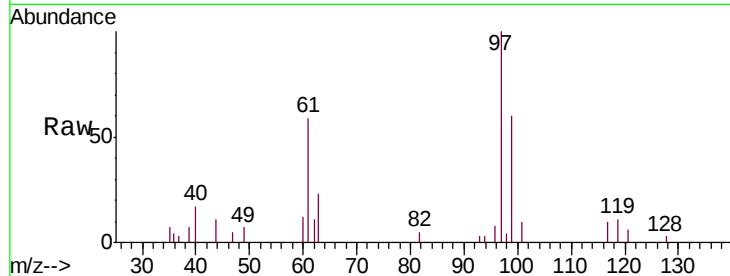




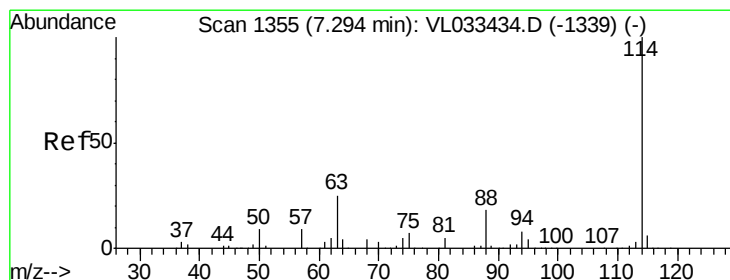
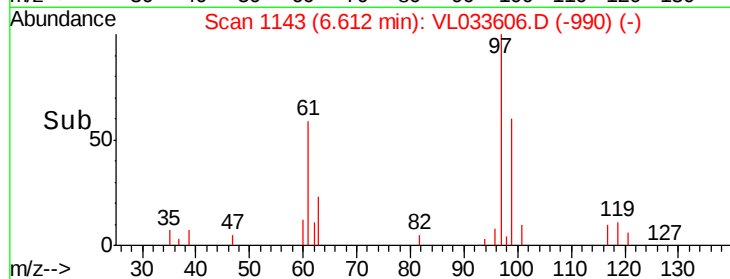
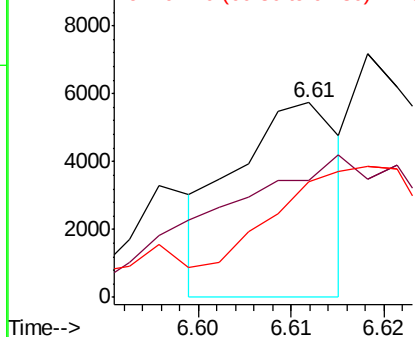
#32
 1,1,1-Trichloroethane
 Concen: 0.037 ppbv
 RT: 6.61 min Scan# 1143
 Delta R.T. -0.01 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

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

Tgt Ion: 97 Resp: 4508
 Ion Ratio Lower Upper
 97 100
 99 0.0 51.5 77.3#
 61 0.0 38.8 58.2#

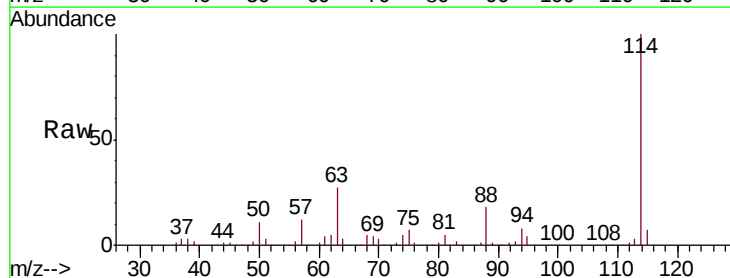


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0
 Ion 61.10 (60.80 to 61.80): VL0

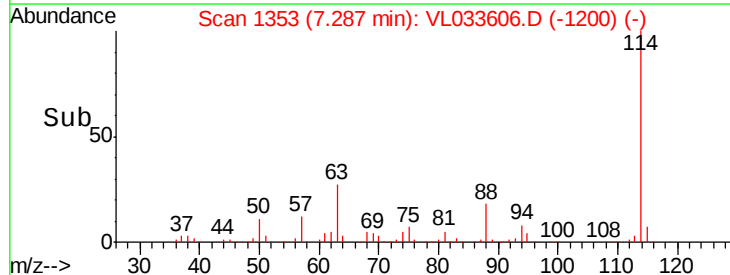
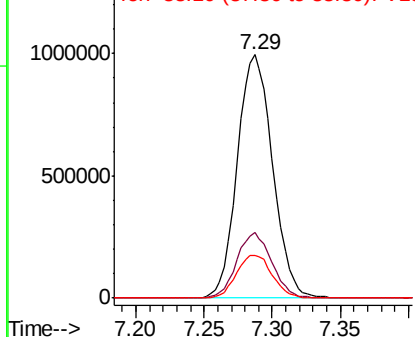


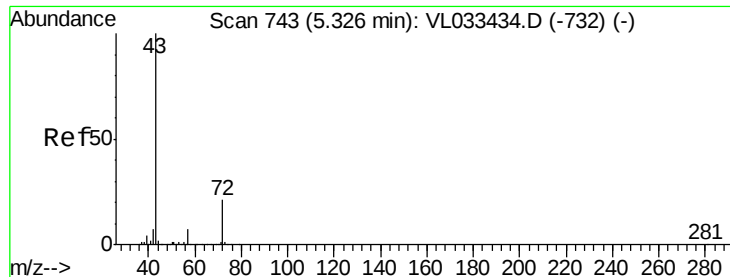
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

Tgt 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

Instrument :

MSVOA_L

ClientSampleId :

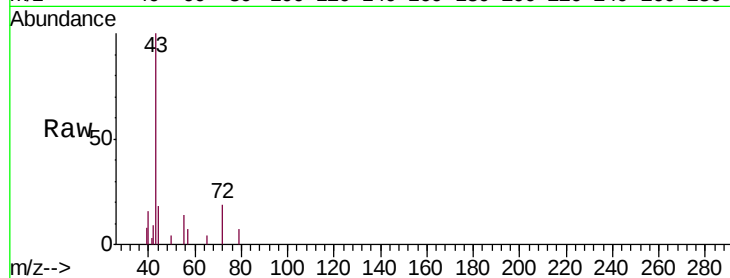
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 43 Resp: 8564

Ion Ratio Lower Upper

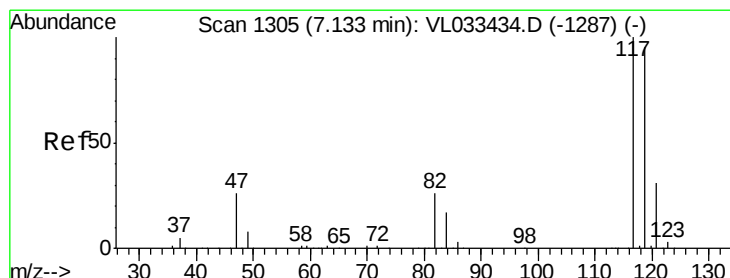
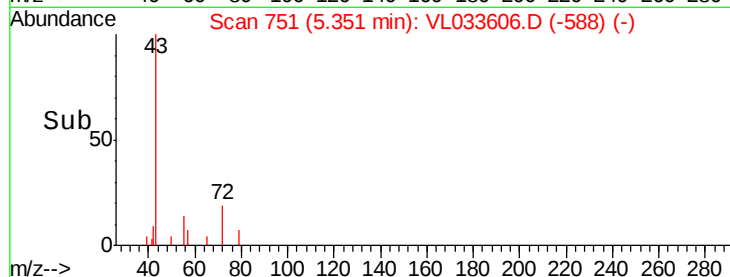
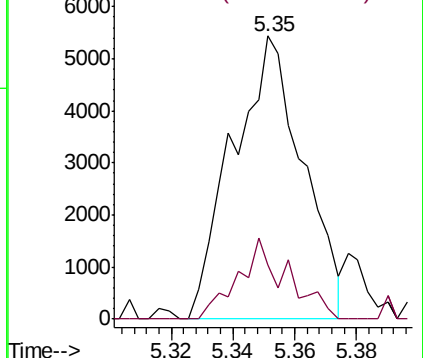
43 100

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: 0.067 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

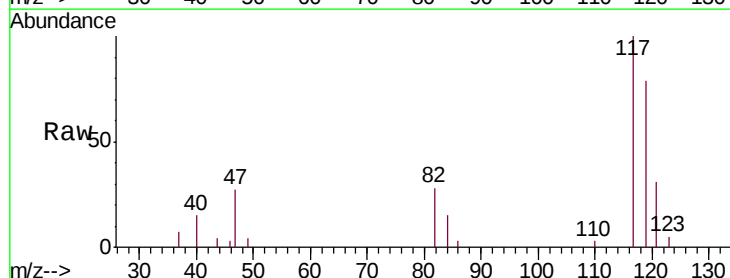
Tgt Ion: 117 Resp: 8462

Ion Ratio Lower Upper

117 100

119 70.3 75.8 113.8#

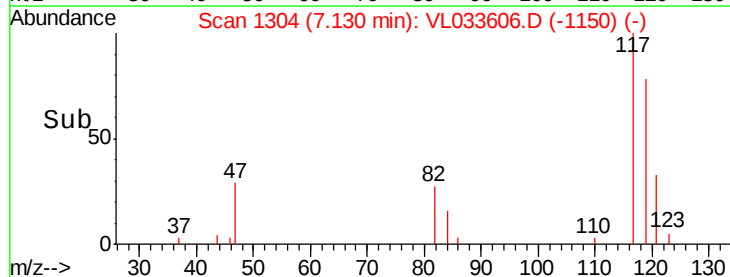
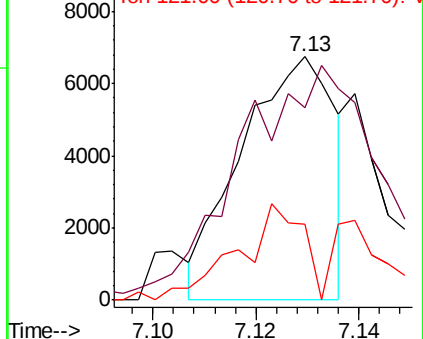
121 31.3 24.7 37.1

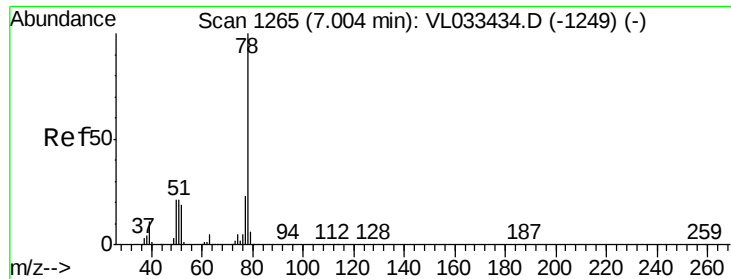


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

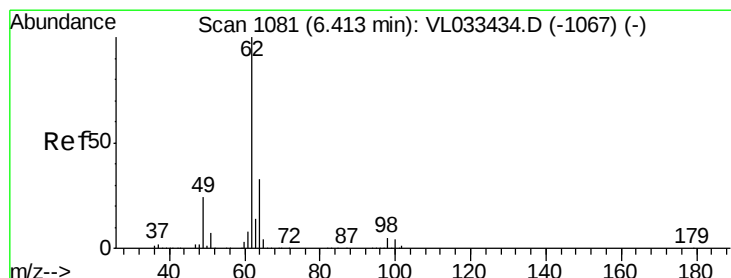
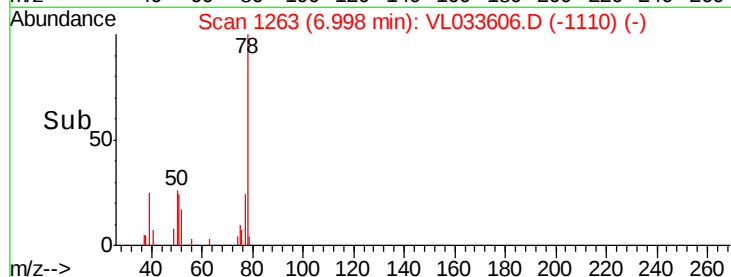
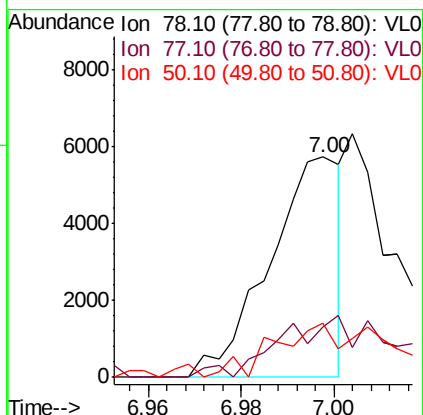
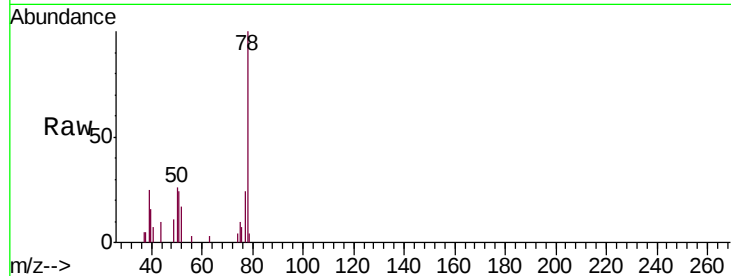




#36
Benzene
Concen: 0.041 ppbv
RT: 7.00 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VL033606.D
Acq: 17 Apr 2019 17:31

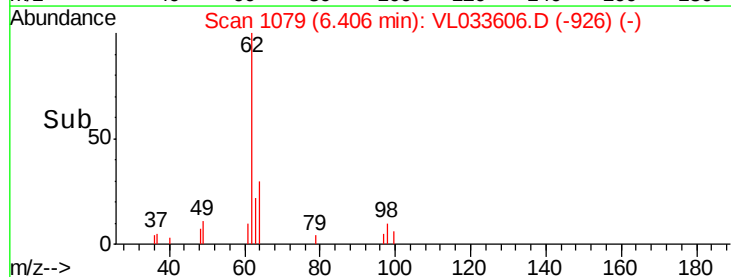
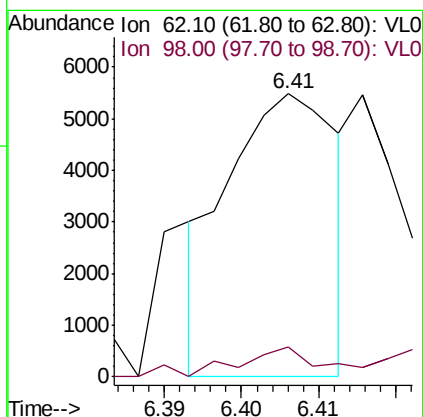
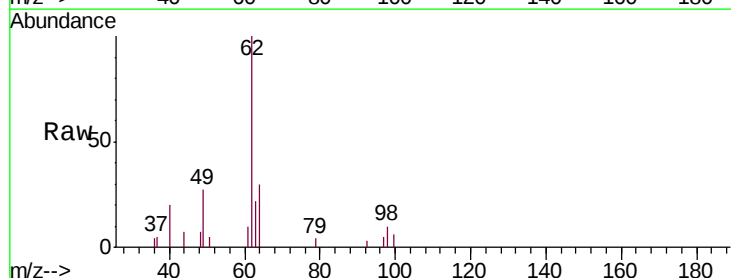
Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

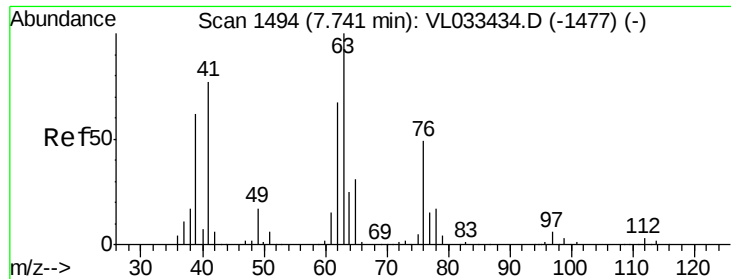
Tgt Ion: 78 Resp: 6124
Ion Ratio Lower Upper
78 100
77 23.0 18.1 27.1
50 18.6 16.7 25.1



#37
1,2-Dichloroethane
Concen: 0.053 ppbv
RT: 6.41 min Scan# 1079
Delta R.T. -0.01 min
Lab File: VL033606.D
Acq: 17 Apr 2019 17:31

Tgt Ion: 62 Resp: 5383
Ion Ratio Lower Upper
62 100
98 14.0 4.4 6.6#

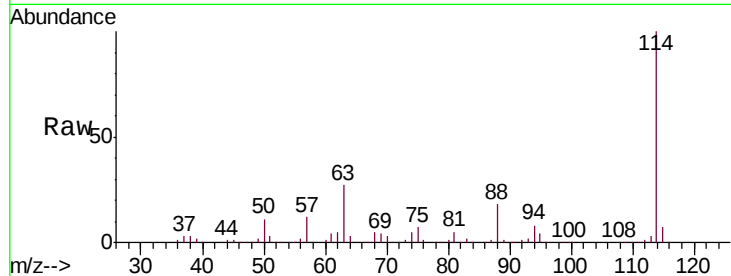




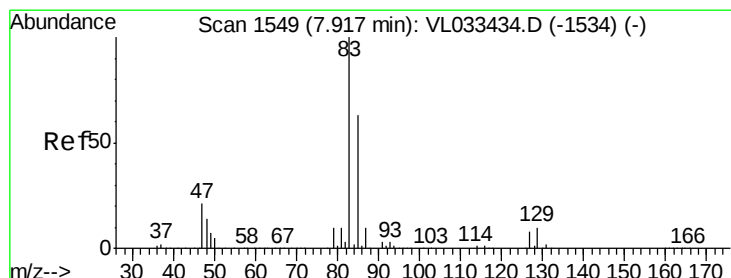
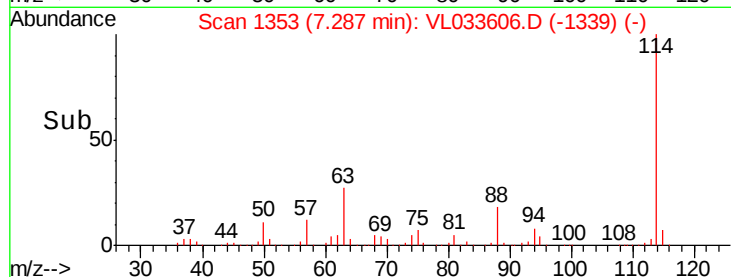
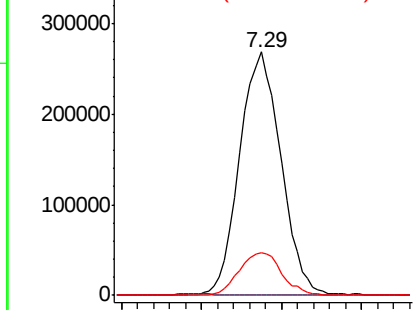
#39
 1,2-Dichloropropane
 Concen: 8.048 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.45 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

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

Tgt Ion: 63 Resp: 473326
 Ion Ratio Lower Upper
 63 100
 41 0.0 61.2 91.8#
 62 17.2 54.0 81.0#

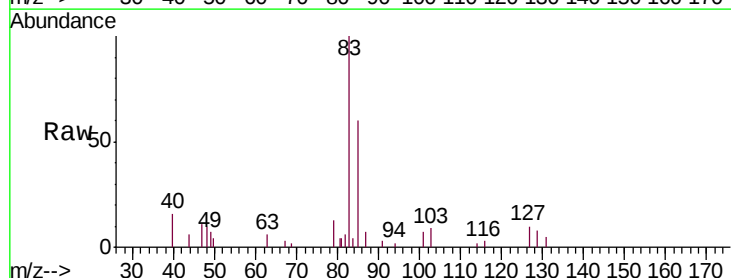


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

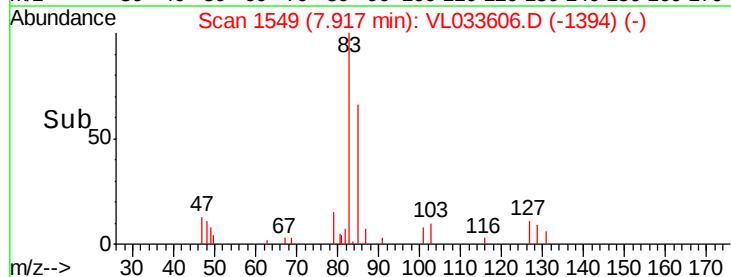
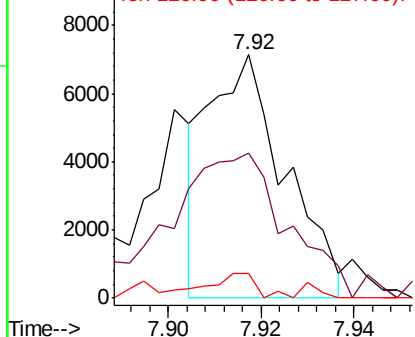


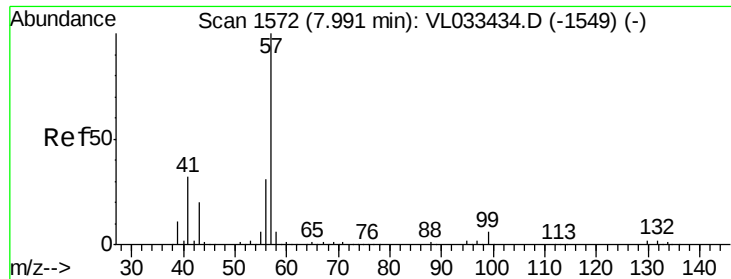
#42
 Bromodichloromethane
 Concen: 0.060 ppbv
 RT: 7.92 min Scan# 1549
 Delta R.T. -0.00 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

Tgt Ion: 83 Resp: 8174
 Ion Ratio Lower Upper
 83 100
 85 51.9 50.7 76.1
 127 11.4 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): V

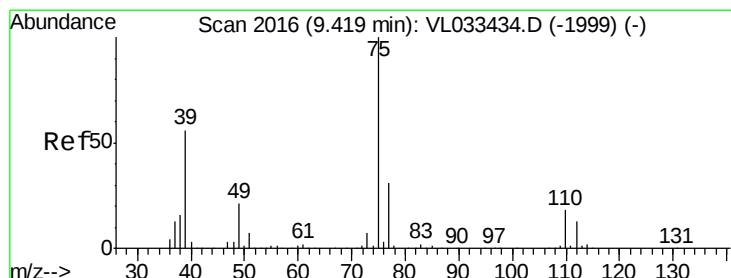
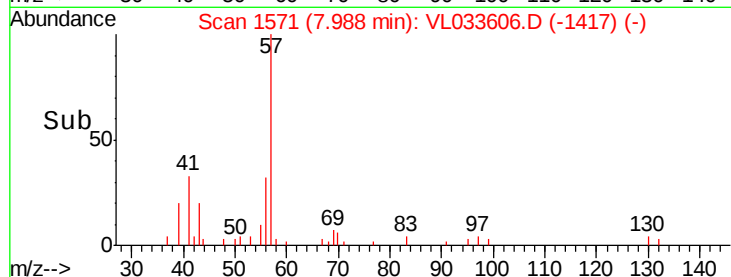
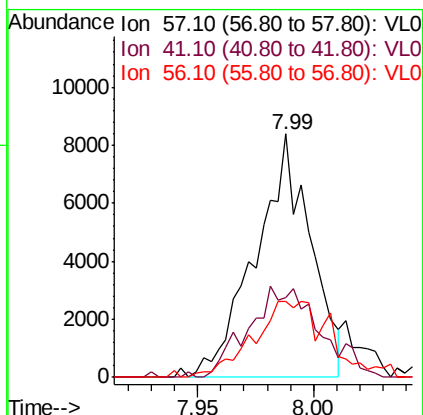
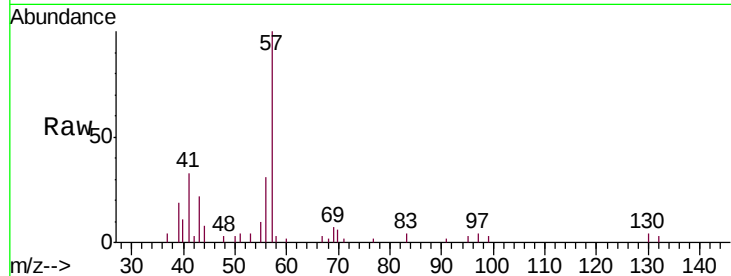




#44
 2,2,4-Trimethylpentane
 Concen: 0.052 ppbv
 RT: 7.99 min Scan# 1571
 Delta R.T. -0.00 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

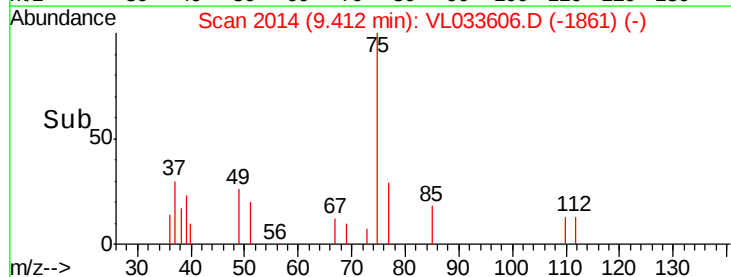
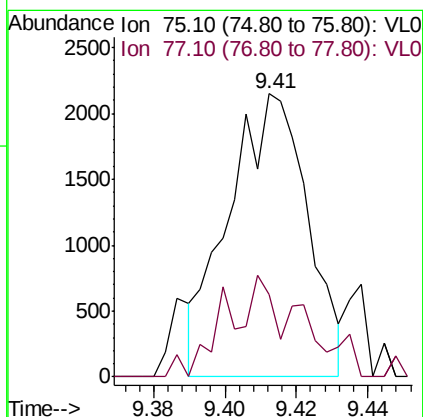
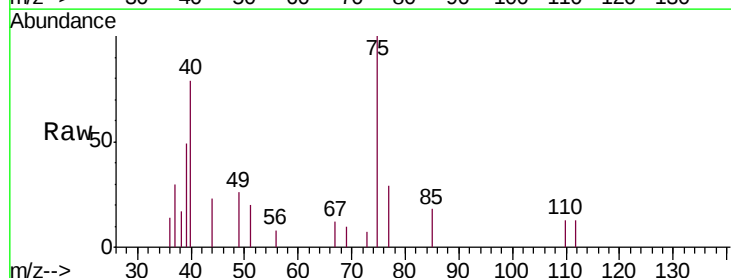
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT2-2019

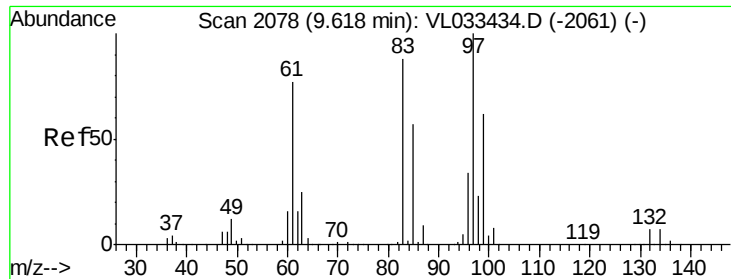
Tgt Ion: 57 Resp: 13737
 Ion Ratio Lower Upper
 57 100
 41 48.9 26.0 39.0#
 56 44.1 24.6 37.0#



#45
 t-1,3-Dichloropropene
 Concen: 0.044 ppbv
 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: 3292
 Ion Ratio Lower Upper
 75 100
 77 28.9 24.5 36.7

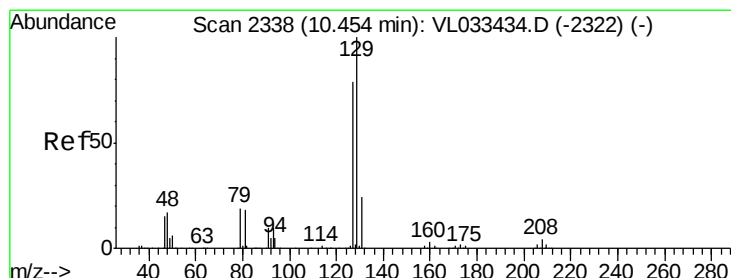
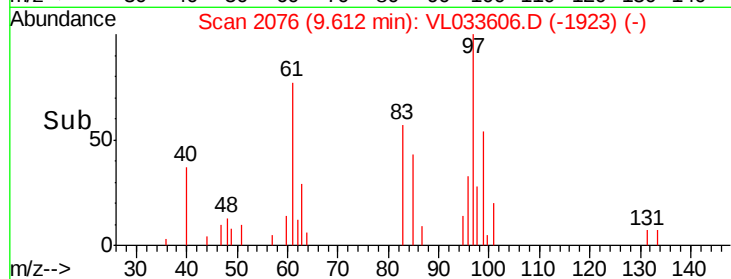
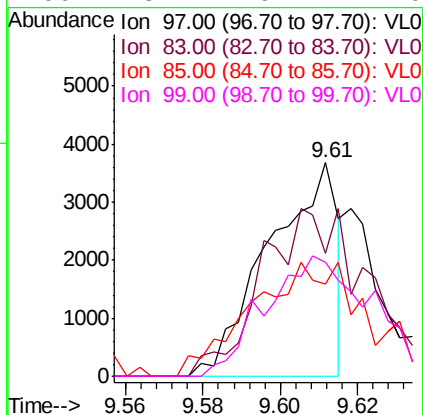
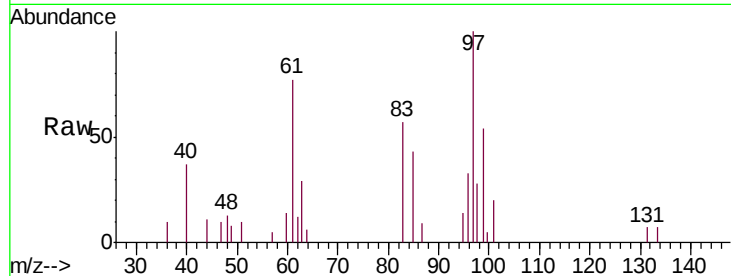




#47
 1,1,2-Trichloroethane
 Concen: 0.068 ppbv
 RT: 9.61 min Scan# 2076
 Delta R.T. -0.01 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

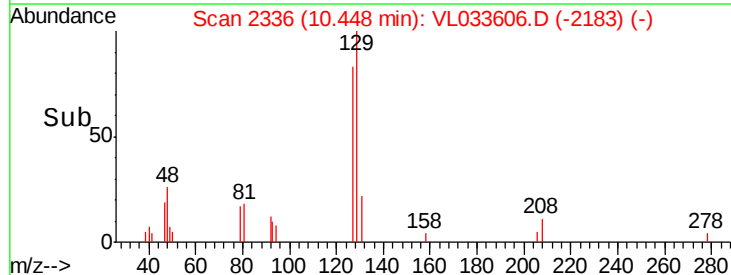
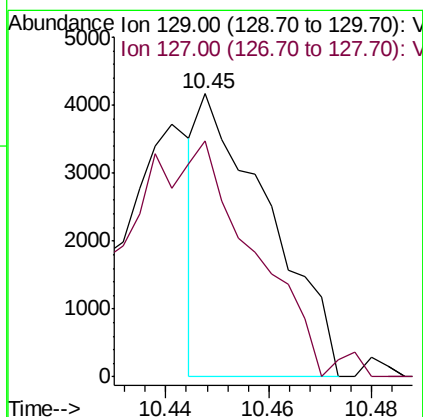
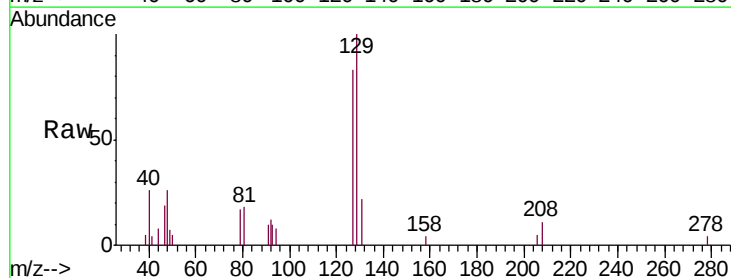
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT2-2019

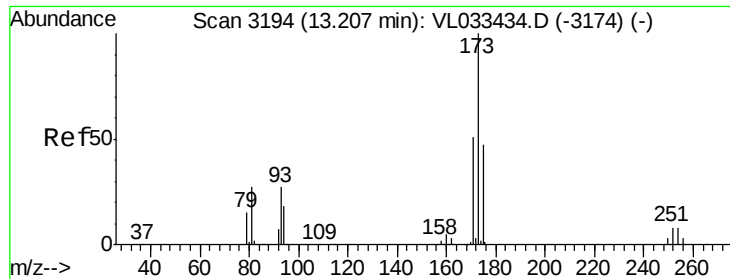
Tgt Ion: 97 Resp: 4535
 Ion Ratio Lower Upper
 97 100
 83 44.7 70.5 105.7#
 85 26.2 45.6 68.4#
 99 45.4 49.4 74.0#



#48
 Dibromochloromethane
 Concen: 0.035 ppbv
 RT: 10.45 min Scan# 2336
 Delta R.T. -0.01 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

Tgt Ion: 129 Resp: 3945
 Ion Ratio Lower Upper
 129 100
 127 148.7 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

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT2-2019

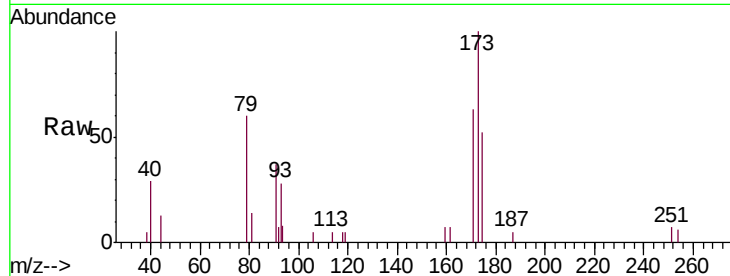
Tgt Ion: 173 Resp: 6570

Ion Ratio Lower Upper

173 100

175 44.1 39.3 58.9

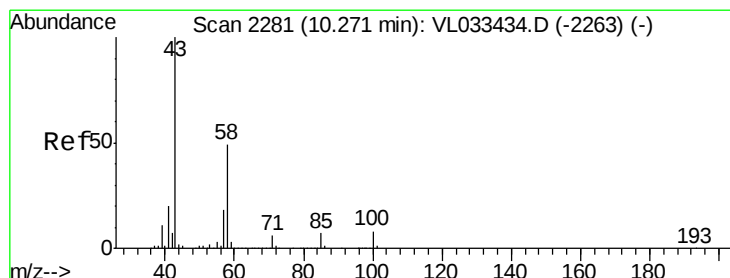
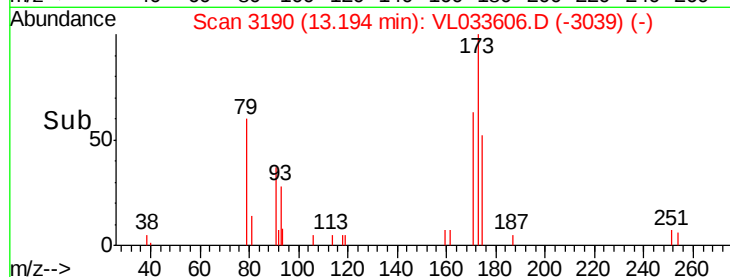
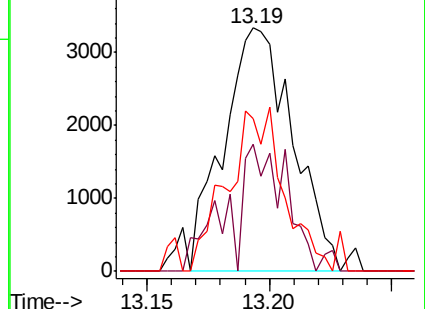
171 58.3 41.2 61.8



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



#51

2-Hexanone

Concen: 0.037 ppbv

RT: 10.31 min Scan# 2292

Delta R.T. 0.04 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

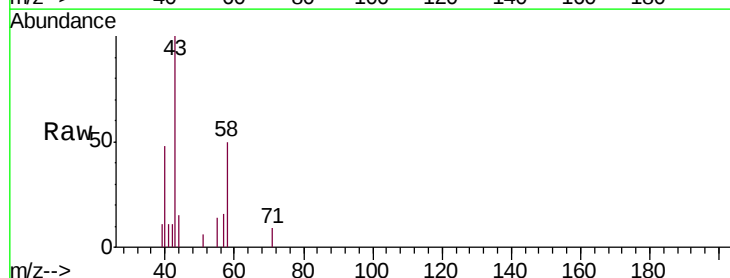
Tgt Ion: 43 Resp: 4397

Ion Ratio Lower Upper

43 100

58 53.5 38.2 57.2

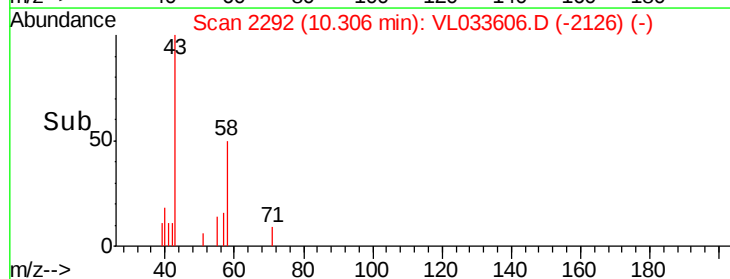
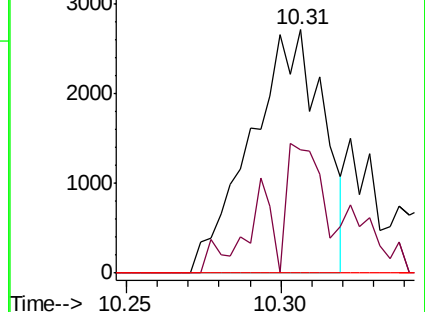
98 0.0 0.2 0.2#

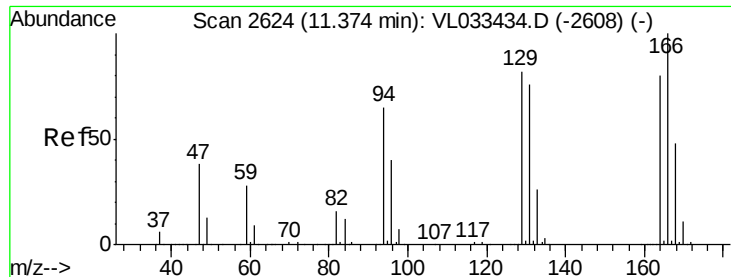


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0





#52

Tetrachloroethene

Concen: 0.035 ppbv

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

Tgt Ion:164 Resp: 1967

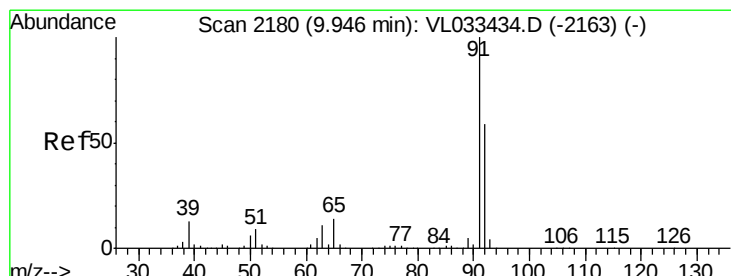
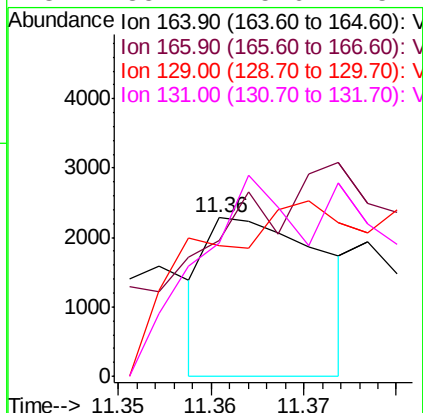
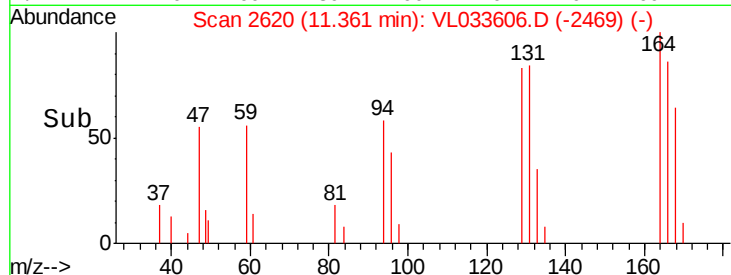
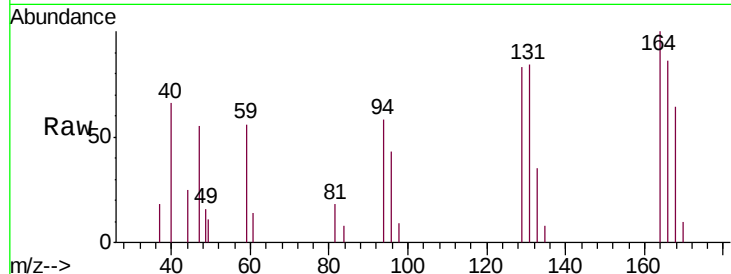
Ion Ratio Lower Upper

164 100

166 26.4 99.5 149.3#

129 0.0 81.4 122.2#

131 35.2 75.6 113.4#



#53

Toluene

Concen: 0.041 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033606.D

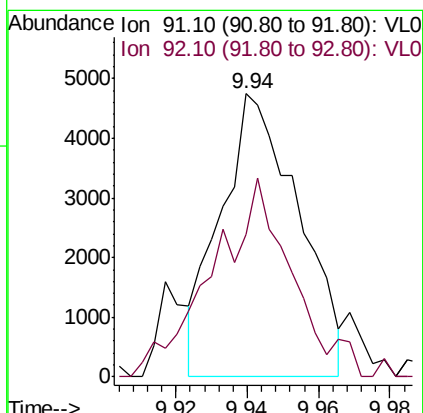
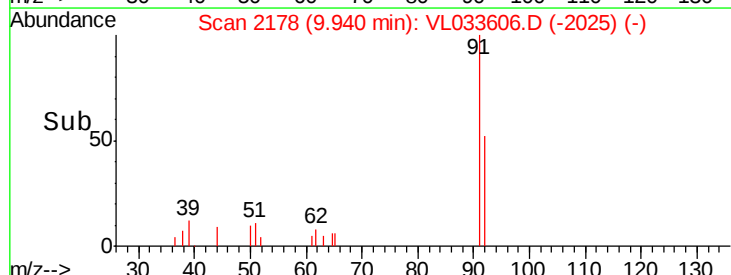
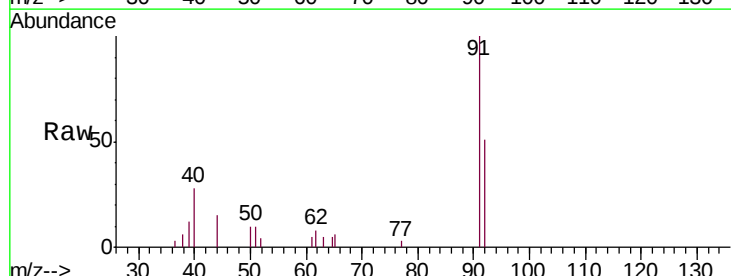
Acq: 17 Apr 2019 17:31

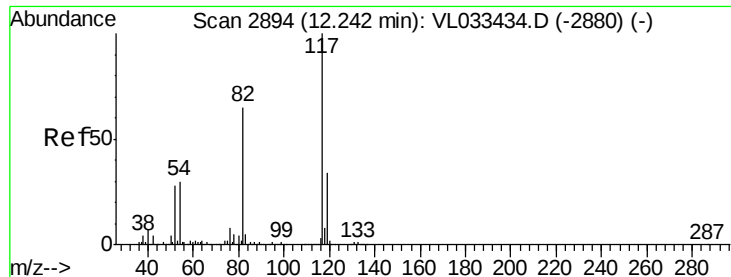
Tgt Ion: 91 Resp: 7189

Ion Ratio Lower Upper

91 100

92 72.1 47.4 71.0#

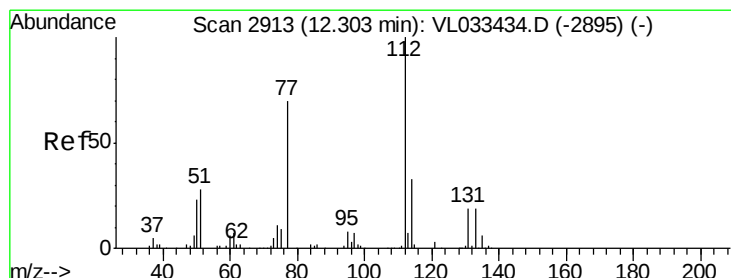
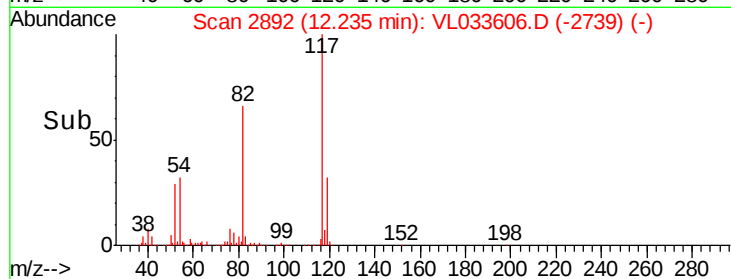
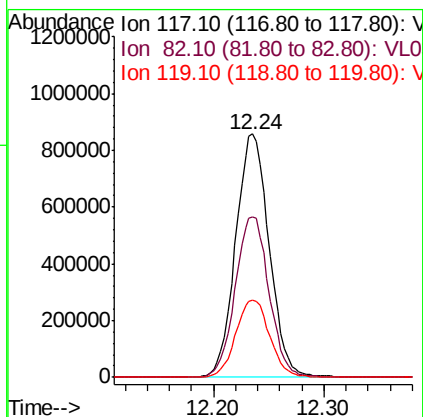
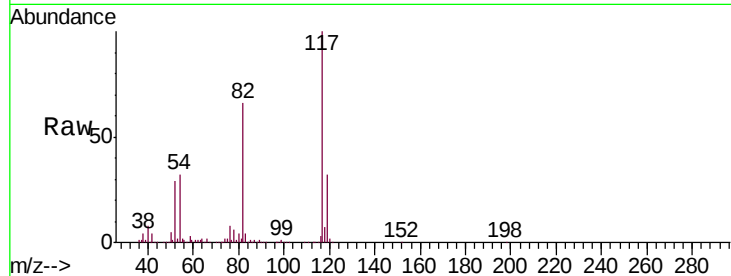




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033606.D
Acq: 17 Apr 2019 17:31

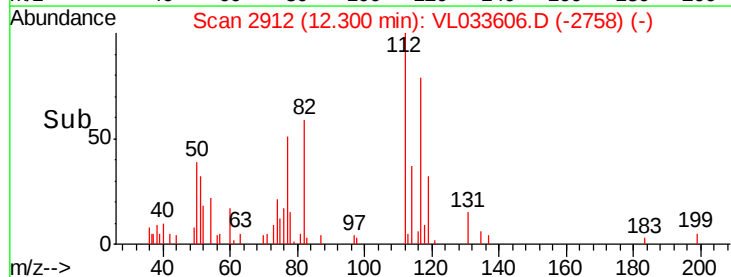
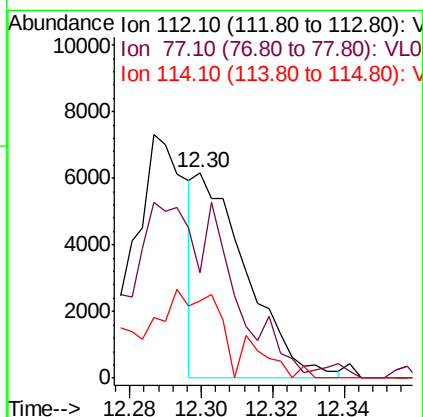
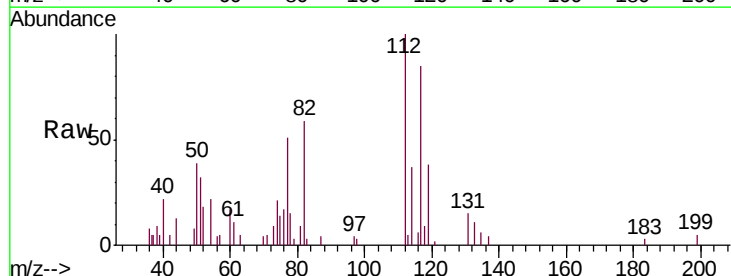
Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT2-2019

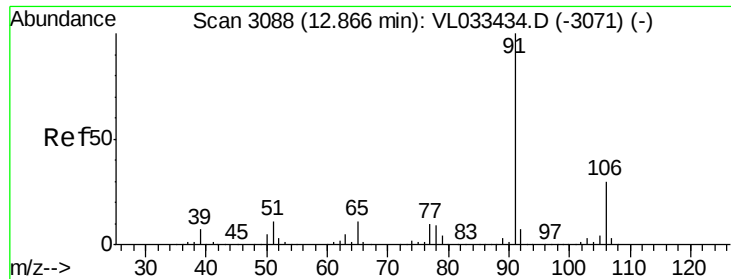
Tgt Ion:117 Resp: 1802243
Ion Ratio Lower Upper
117 100
82 67.0 51.5 77.3
119 32.5 25.5 38.3



#57
Chlorobenzene
Concen: 0.044 ppbv
RT: 12.30 min Scan# 2912
Delta R.T. -0.00 min
Lab File: VL033606.D
Acq: 17 Apr 2019 17:31

Tgt Ion:112 Resp: 6152
Ion Ratio Lower Upper
112 100
77 45.8 57.3 85.9#
114 38.7 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 :

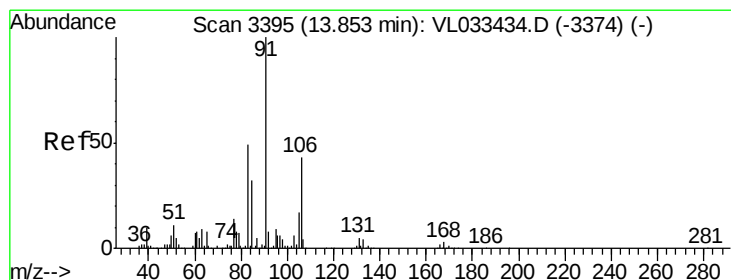
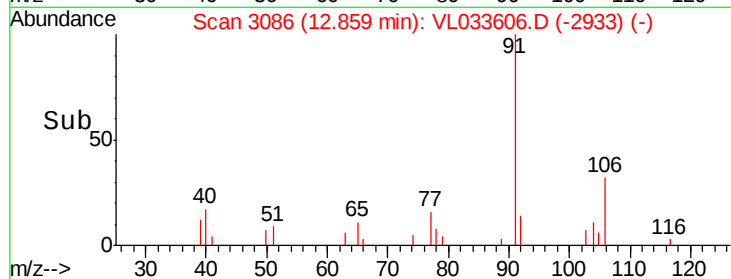
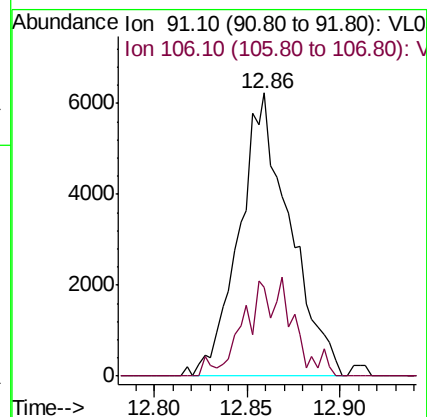
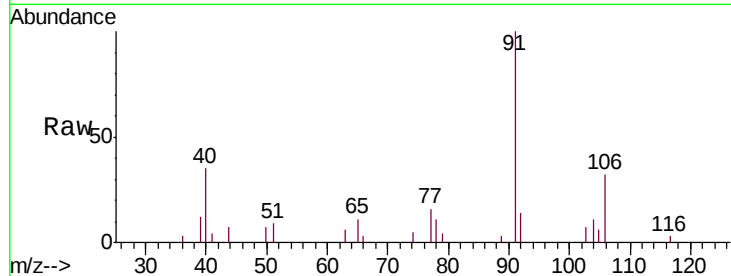
MDL-MDL-AIR-03-QT2-2019

Tgt Ion: 91 Resp: 11789

Ion Ratio Lower Upper

91 100

106 31.6 23.8 35.6



#60

o-Xylene

Concen: 0.042 ppbv

RT: 13.84 min Scan# 3391

Delta R.T. -0.01 min

Lab File: VL033606.D

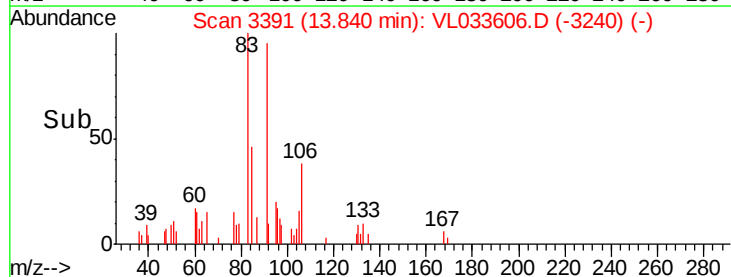
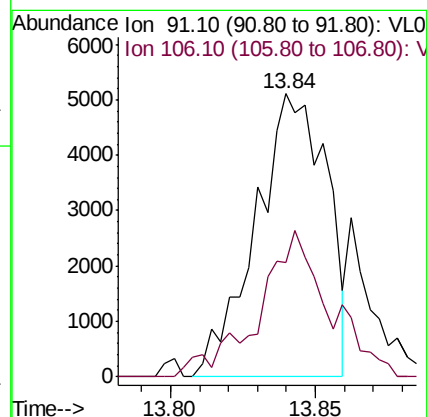
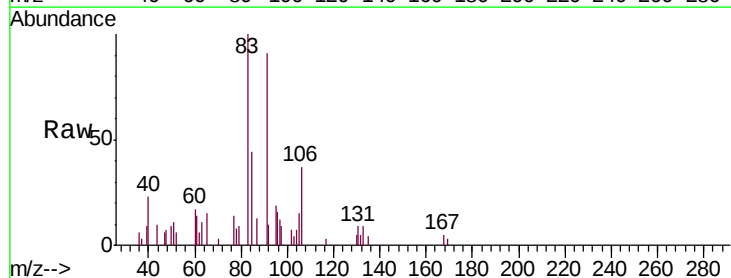
Acq: 17 Apr 2019 17:31

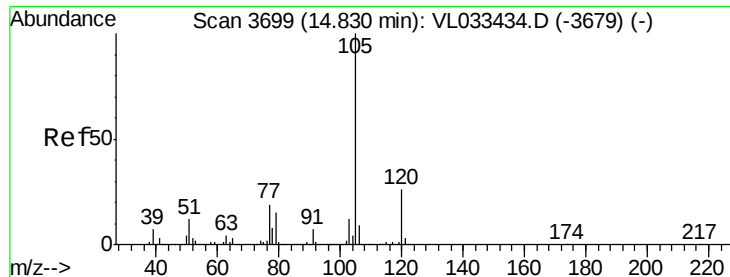
Tgt Ion: 91 Resp: 8715

Ion Ratio Lower Upper

91 100

106 51.3 21.4 64.3





#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 :

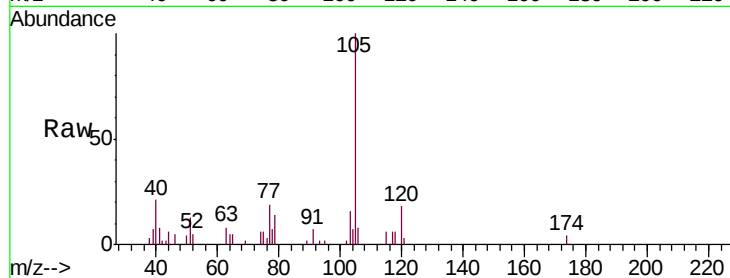
MDL-MDL-AIR-03-QT2-2019

Tgt Ion:105 Resp: 18666

Ion Ratio Lower Upper

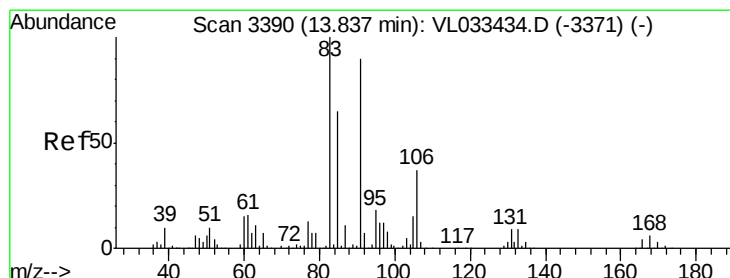
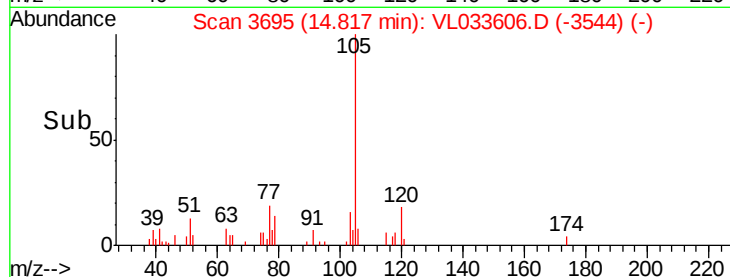
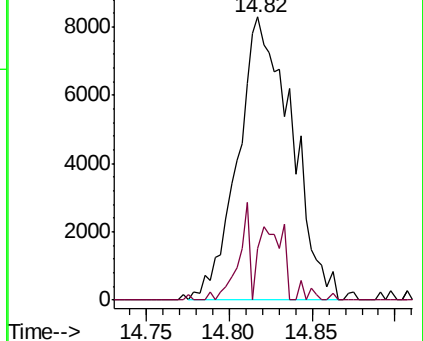
105 100

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: 0.041 ppbv

RT: 13.83 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VL033606.D

Acq: 17 Apr 2019 17:31

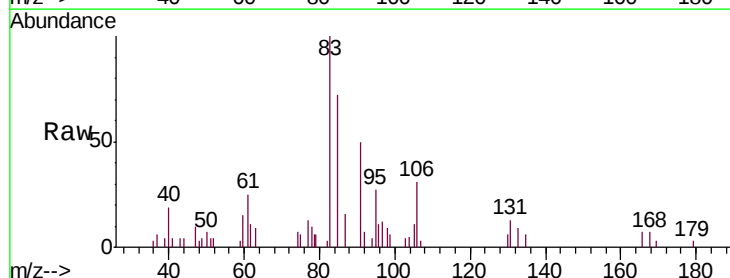
Tgt Ion: 83 Resp: 6292

Ion Ratio Lower Upper

83 100

131 22.6 4.7 14.0#

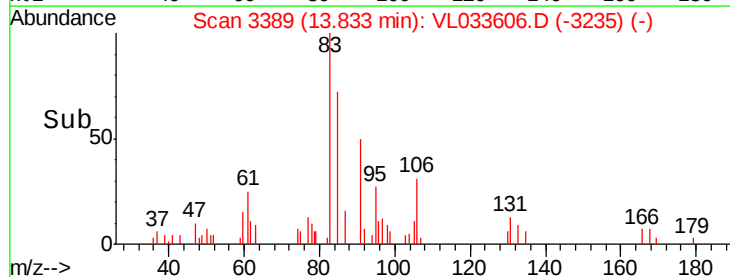
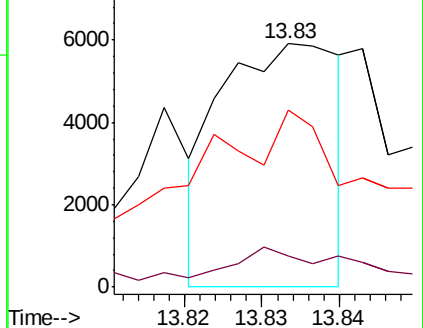
85 139.4 32.7 98.1#

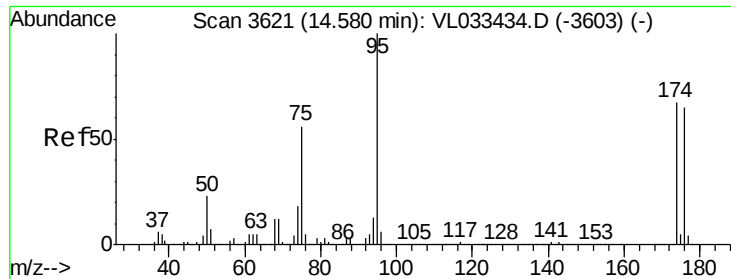


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0

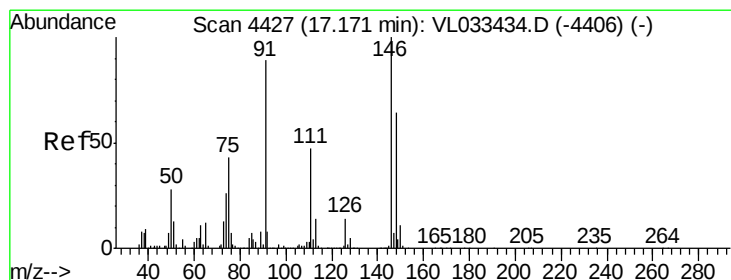
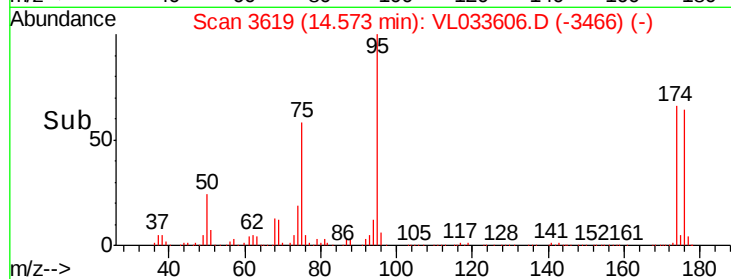
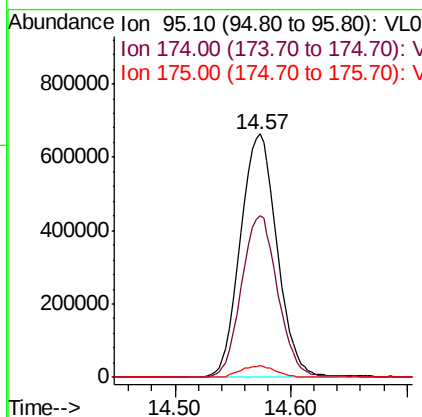
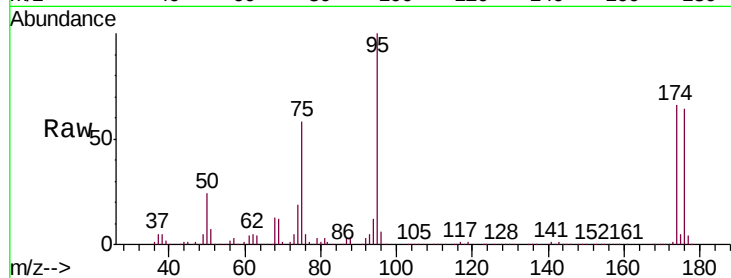




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.321 ppbv
 RT: 14.57 min Scan# 3619
 Delta R.T. -0.01 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

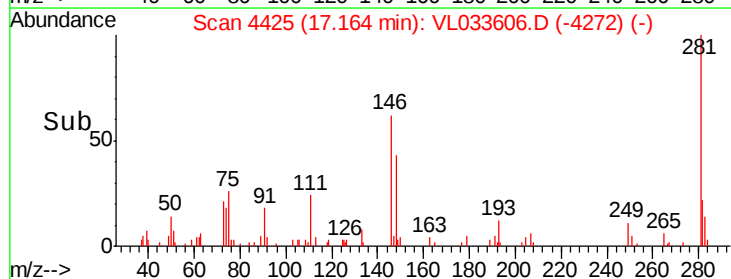
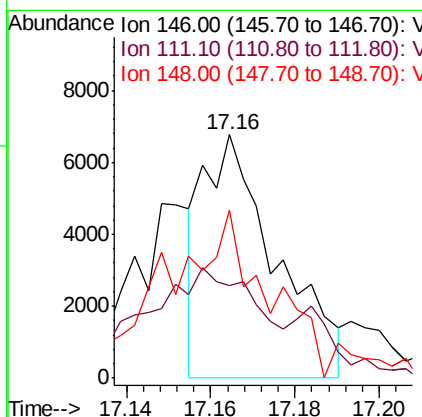
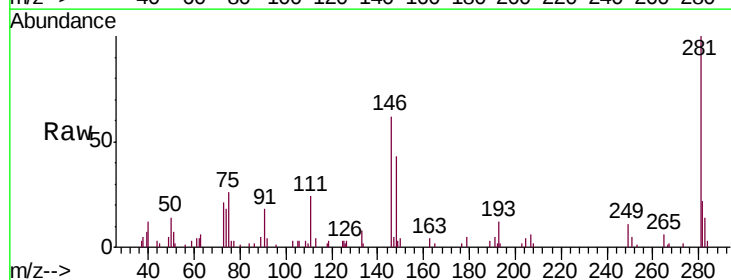
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT2-2019

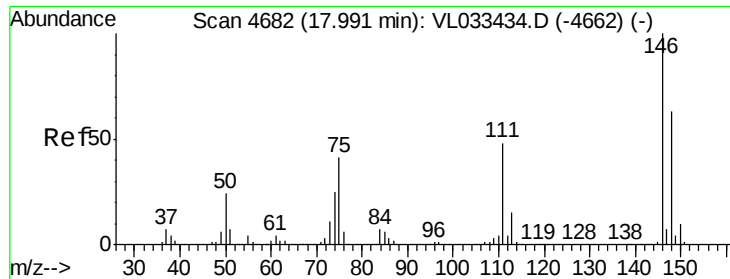
Tgt Ion: 95 Resp: 1458268
 Ion Ratio Lower Upper
 95 100
 174 66.6 52.9 79.3
 175 4.7 3.8 5.6



#75
 1,3-Dichlorobenzene
 Concen: 0.055 ppbv
 RT: 17.16 min Scan# 4425
 Delta R.T. -0.01 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

Tgt Ion: 146 Resp: 8206
 Ion Ratio Lower Upper
 146 100
 111 95.4 22.9 68.8#
 148 112.1 32.0 96.2#

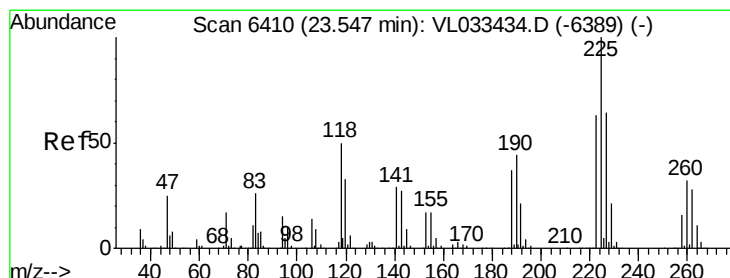
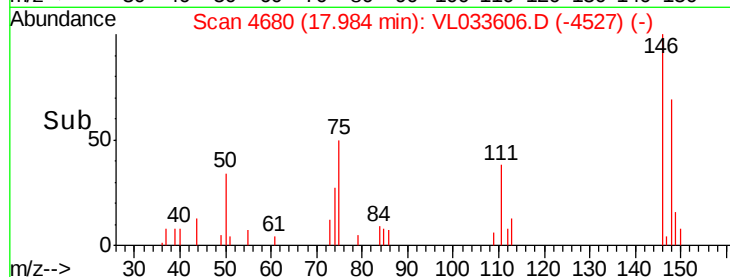
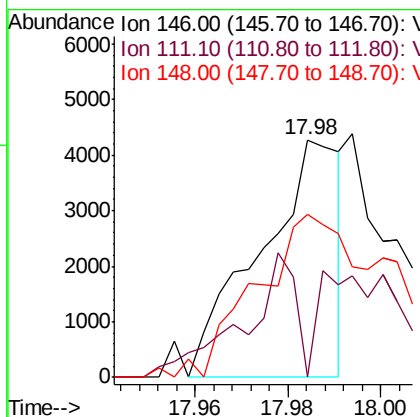
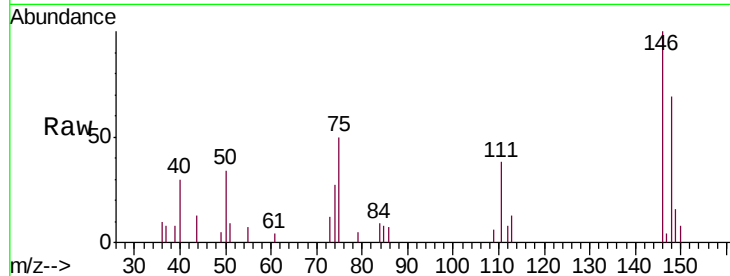




#77
 1,2-Dichlorobenzene
 Concen: 0.036 ppbv
 RT: 17.98 min Scan# 4680
 Delta R.T. -0.01 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

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

Tgt Ion:146 Resp: 5116
 Ion Ratio Lower Upper
 146 100
 111 80.5 23.5 70.5#
 148 123.4 32.0 96.0#



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.048 ppbv
 RT: 23.53 min Scan# 6406
 Delta R.T. -0.01 min
 Lab File: VL033606.D
 Acq: 17 Apr 2019 17:31

Tgt Ion:225 Resp: 4494
 Ion Ratio Lower Upper
 225 100
 223 0.0 50.0 75.0#
 227 0.0 51.1 76.7#

