

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL050719\
 Data File : VL033682.D
 Acq On : 7 May 2019 14:56
 Operator : SY/AP
 Sample : K2241-13 0.03PPB
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

Quant Time: May 08 02:24:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 06 15:19:01 2019
 QLast Update : Mon May 06 15:19:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	864529	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2010754	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	1920334	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1586715	10.08	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.80%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.07	85	14033	0.069 ppbv	91
3) Chlorodifluoromethane	3.01	51	9962	0.080 ppbv	100
4) Chloromethane	3.17	50	4235	0.065 ppbv #	46
5) Vinyl Chloride	3.29	62	3788	0.060 ppbv #	84
6) Bromomethane	3.52	94	532	0.013 ppbv #	67
7) Chloroethane	3.59	64	589	0.026 ppbv #	78
8) Dichlorotetrafluoroethane	3.22	85	9907	0.059 ppbv	92
9) Propene	3.04	41	2966	0.062 ppbv	84
11) Trichlorofluoromethane	4.00	101	12035	0.064 ppbv	90
12) 1,1,2-Trichlorotrifluoroet	4.55	101	8053	0.063 ppbv	96
13) Ethanol	3.65	45	412	0.029 ppbv #	38
14) Bromoethene	3.78	108	1040	0.021 ppbv #	1
15) Acetone	3.92	43	19895	0.155 ppbv	93
16) 1,3-Butadiene	3.36	39	2395	0.043 ppbv #	65
18) 1,1-Dichloroethene	4.35	96	3121	0.057 ppbv #	68
19) Isopropyl Alcohol	4.05	45	7019	0.089 ppbv	99
20) Methylene Chloride	4.41	84	6797	0.139 ppbv #	89
21) Allyl Chloride	4.48	41	1872	0.024 ppbv #	1
22) trans-1,2-Dichloroethene	4.96	96	3439	0.062 ppbv #	73
23) Vinyl Acetate	5.16	43	6270	0.038 ppbv #	64
24) 1,1-Dichloroethane	5.09	63	7791	0.062 ppbv	99
25) Ethyl Acetate	5.79	43	4265	0.020 ppbv #	60
26) Hexane	5.77	57	4781	0.053 ppbv #	88
27) Carbon Disulfide	4.61	76	1831	0.015 ppbv #	30
28) Methyl tert-Butyl Ether	5.13	73	5824	0.038 ppbv #	54
29) Chloroform	5.84	83	9655	0.060 ppbv	91
31) cis-1,2-Dichloroethene	5.63	61	2420	0.027 ppbv #	67
32) 1,1,1-Trichloroethane	6.61	97	6907	0.041 ppbv #	73
35) Carbon Tetrachloride	7.13	117	6243	0.038 ppbv #	52
36) Benzene	7.00	78	4850	0.027 ppbv #	79
37) 1,2-Dichloroethane	6.41	62	4605	0.037 ppbv #	86
38) Trichloroethene	7.95	130	1226	0.019 ppbv #	60
39) 1,2-Dichloropropane	7.28	63	528131	7.859 ppbv #	24
42) Bromodichloromethane	7.90	83	4667	0.029 ppbv #	98
43) Methyl Methacrylate	8.12	69	834	0.012 ppbv #	1
44) 2,2,4-Trimethylpentane	7.99	57	7287	0.024 ppbv #	52
45) t-1,3-Dichloropropene	9.41	75	980	0.012 ppbv #	84
46) cis-1,3-Dichloropropene	8.83	75	2039	0.020 ppbv #	71
47) 1,1,2-Trichloroethane	9.60	97	1423	0.018 ppbv #	51
48) Dibromochloromethane	10.44	129	3677	0.028 ppbv	68
49) Bromoform	13.19	173	1411	0.012 ppbv #	1

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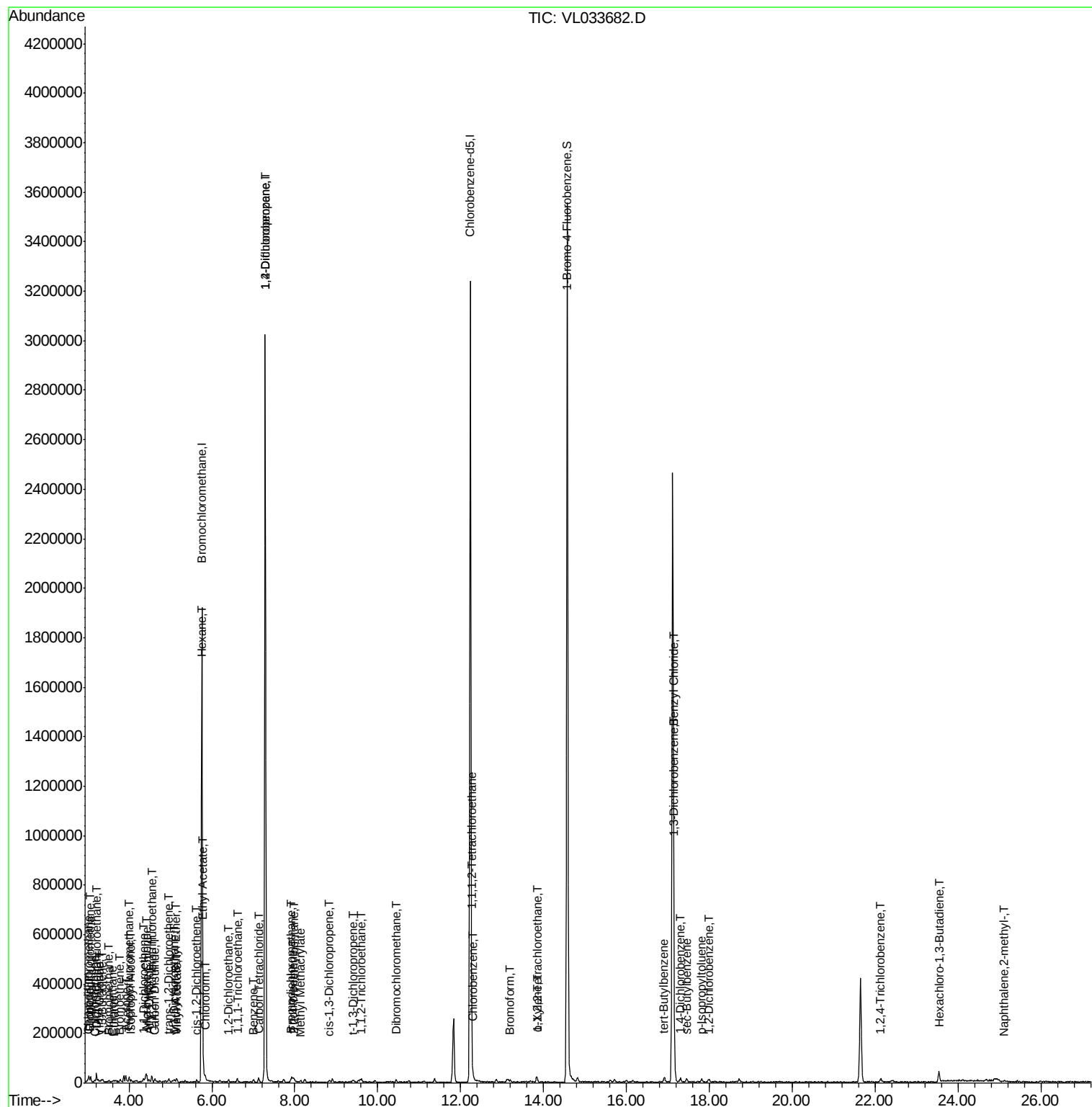
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) 1,1,1,2-Tetrachloroethane	12.27	131	2541	0.029	ppbv	# 10
57) Chlorobenzene	12.29	112	5671	0.036	ppbv	# 39
60) o-Xylene	13.84	91	2563	0.011	ppbv	# 32
63) 1,1,2,2-Tetrachloroethane	13.83	83	2887	0.018	ppbv	# 20
65) tert-Butylbenzene	16.90	119	3898	0.014	ppbv	# 21
66) Benzyl Chloride	17.15	91	2005	0.016	ppbv	# 67
67) sec-Butylbenzene	17.44	105	4571	0.012	ppbv	# 90
69) p-Isopropyltoluene	17.81	119	3469	0.011	ppbv	# 53
75) 1,3-Dichlorobenzene	17.15	146	4061	0.024	ppbv	# 24
76) 1,4-Dichlorobenzene	17.30	146	2502	0.015	ppbv	# 33
77) 1,2-Dichlorobenzene	17.98	146	2080	0.013	ppbv	# 23
78) Hexachloro-1,3-Butadiene	23.53	225	4100	0.033	ppbv	# 38
80) Naphthalene,2-methyl-	25.11	142	2041	0.021	ppbv	# 92
81) 1,2,4-Trichlorobenzene	22.13	180	2020	0.014	ppbv	# 1

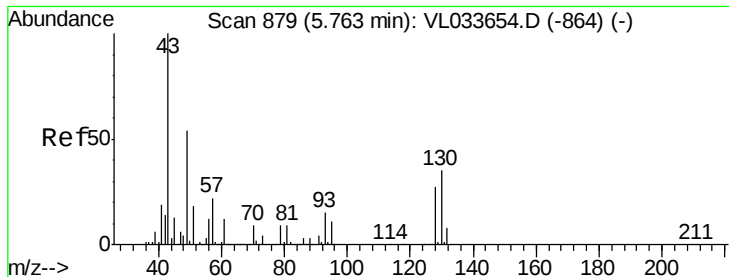
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

Lab File: VL033682.D

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Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

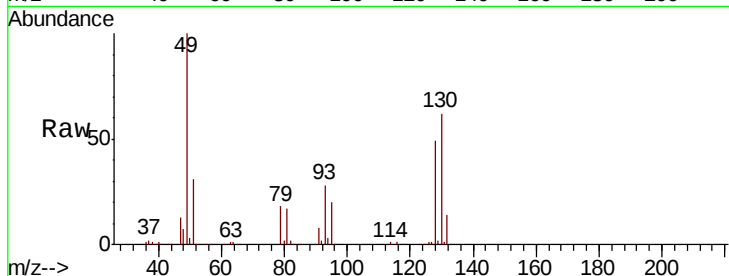
Tgt Ion: 49 Resp: 864529

Ion Ratio Lower Upper

49 100

128 49.6 24.8 74.3

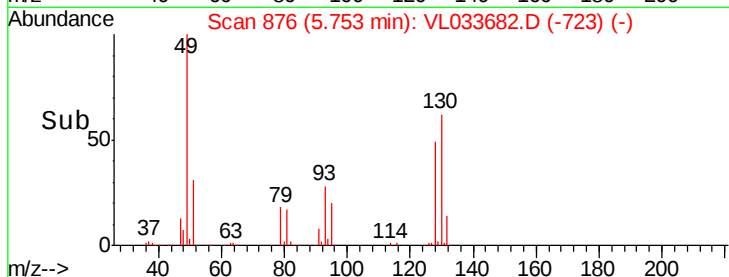
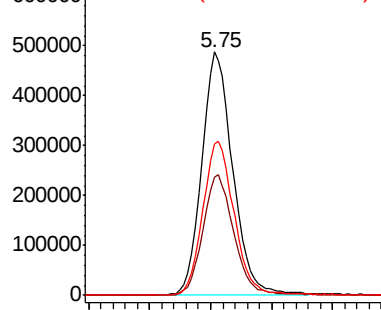
130 64.2 32.1 96.5



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: 0.069 ppbv

RT: 3.07 min Scan# 42

Delta R.T. -0.01 min

Lab File: VL033682.D

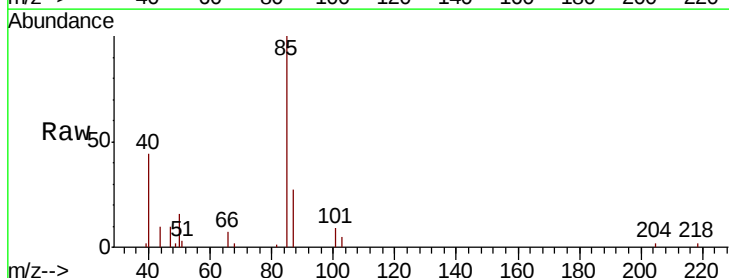
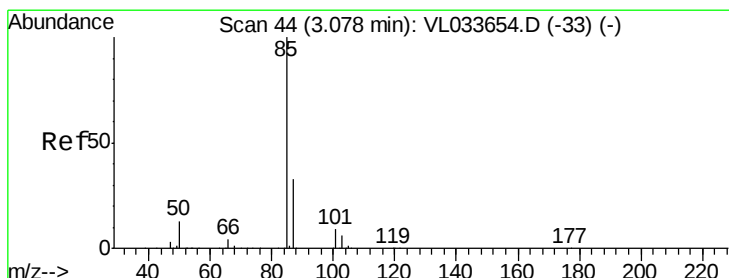
Acq: 7 May 2019 14:56

Tgt Ion: 85 Resp: 14033

Ion Ratio Lower Upper

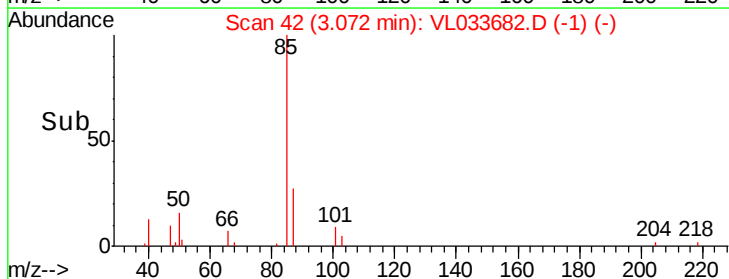
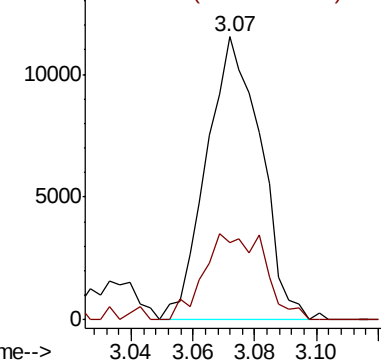
85 100

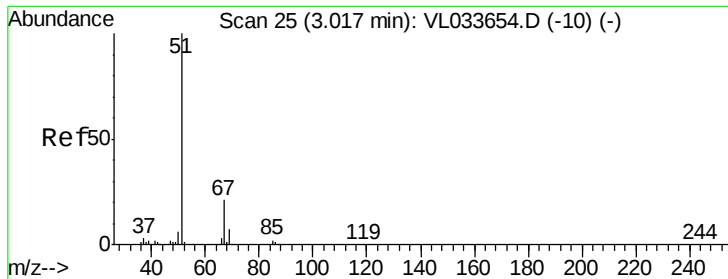
87 27.3 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.080 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.01 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

Instrument :

MSVOA_L

ClientSampleId :

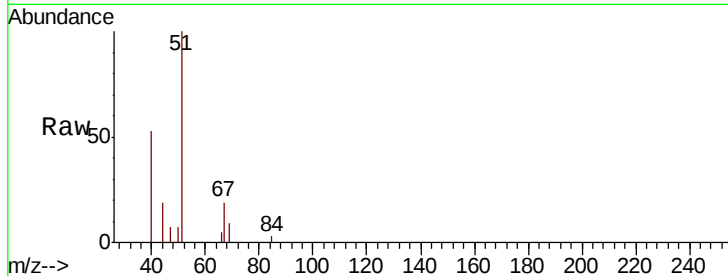
LOD-MDL-AIR-01-QT2-2019

Tgt Ion: 51 Resp: 9962

Ion Ratio Lower Upper

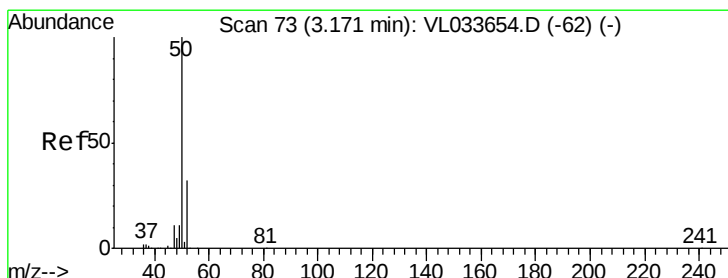
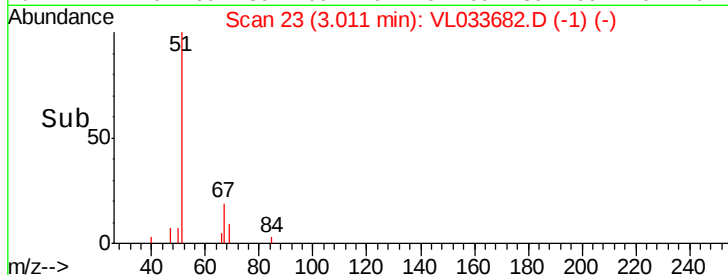
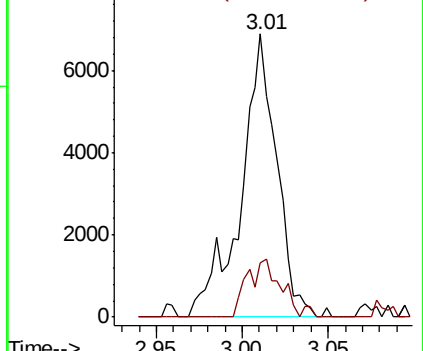
51 100

67 19.4 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: 0.065 ppbv

RT: 3.17 min Scan# 71

Delta R.T. -0.01 min

Lab File: VL033682.D

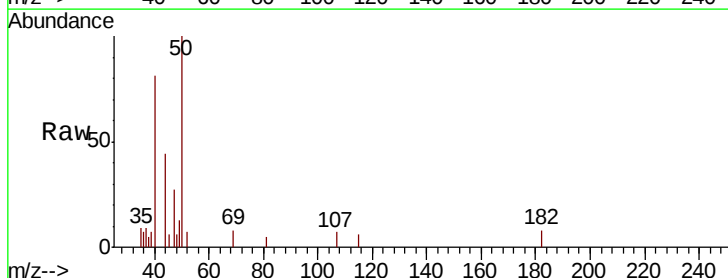
Acq: 7 May 2019 14:56

Tgt Ion: 50 Resp: 4235

Ion Ratio Lower Upper

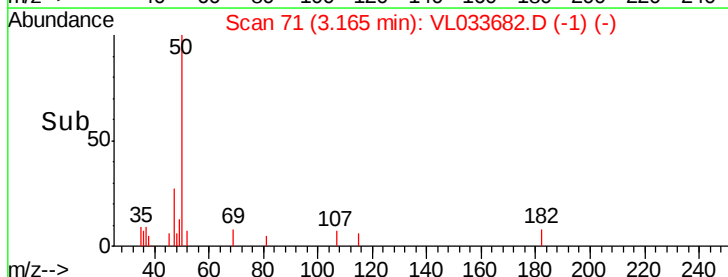
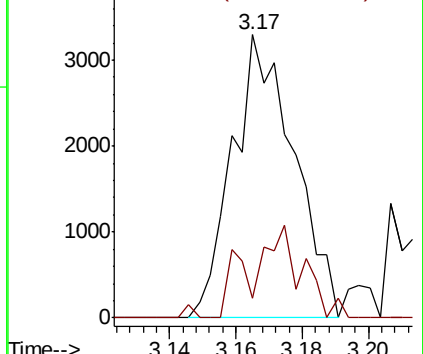
50 100

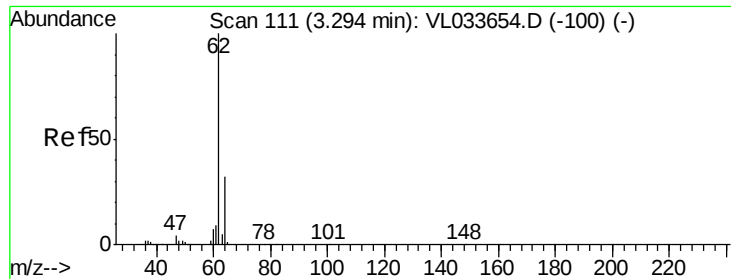
52 2.2 25.8 38.8#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.060 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

Instrument :

MSVOA_L

ClientSampleId :

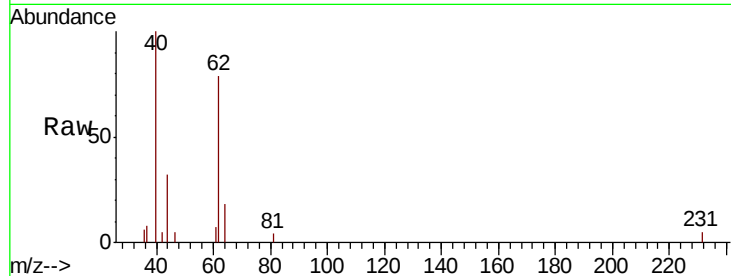
LOD-MDL-AIR-01-QT2-2019

Tgt Ion: 62 Resp: 3788

Ion Ratio Lower Upper

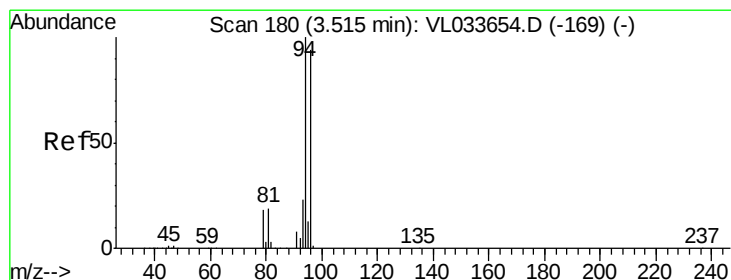
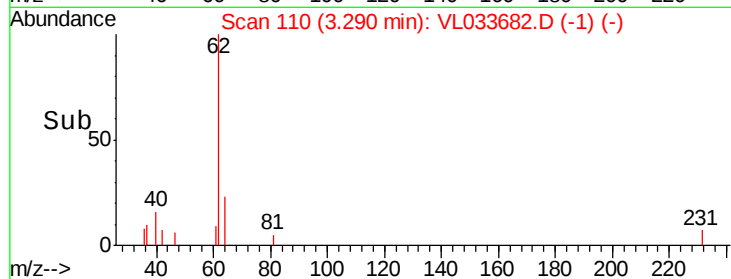
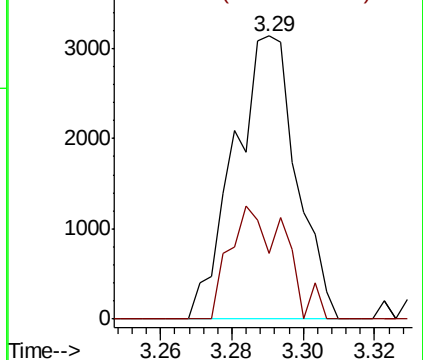
62 100

64 23.3 25.6 38.4#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.013 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033682.D

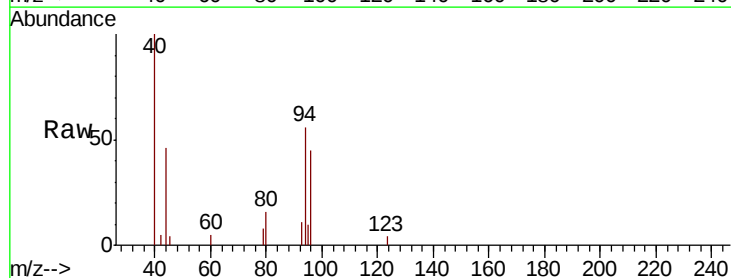
Acq: 7 May 2019 14:56

Tgt Ion: 94 Resp: 532

Ion Ratio Lower Upper

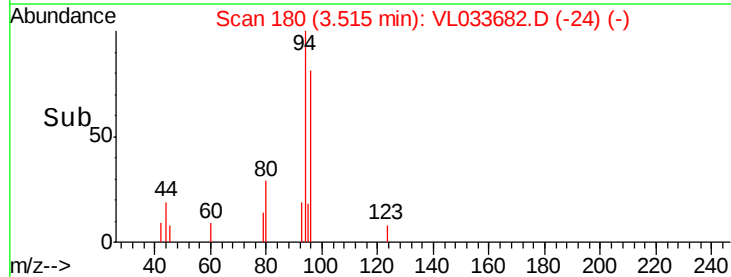
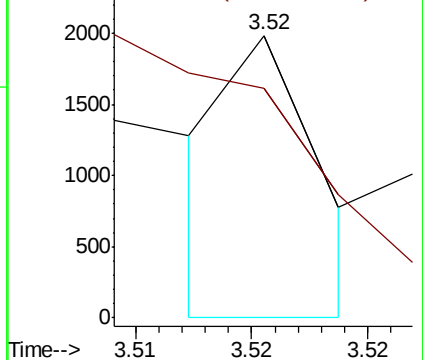
94 100

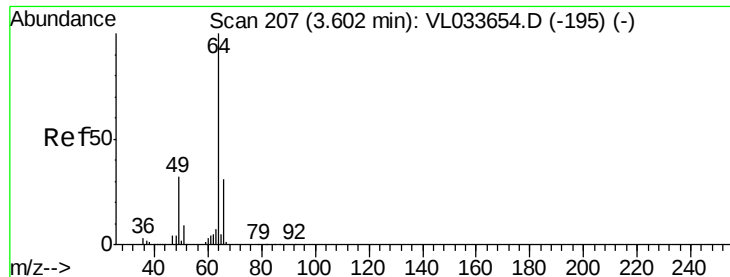
96 62.0 75.2 112.8#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.026 ppbv

RT: 3.59 min Scan# 204

Delta R.T. -0.01 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

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ClientSampleId :

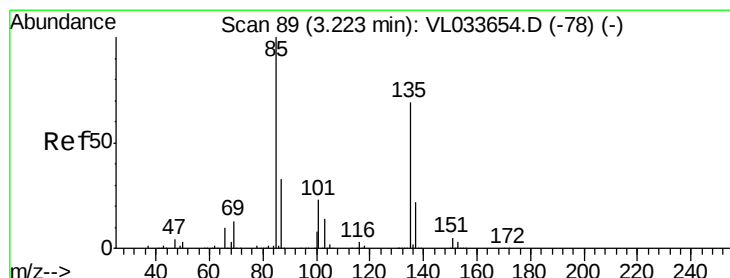
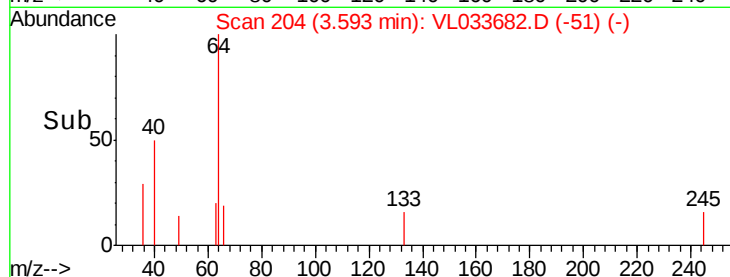
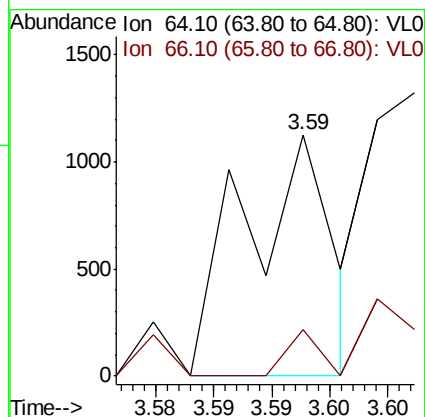
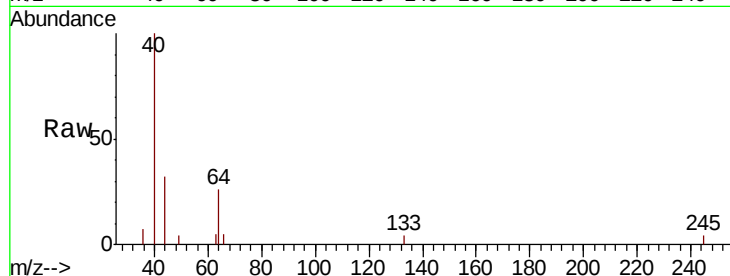
LOD-MDL-AIR-01-QT2-2019

Tgt Ion: 64 Resp: 589

Ion Ratio Lower Upper

64 100

66 19.3 25.1 37.7#



#8

Dichlorotetrafluoroethane

Concen: 0.059 ppbv

RT: 3.22 min Scan# 87

Delta R.T. -0.01 min

Lab File: VL033682.D

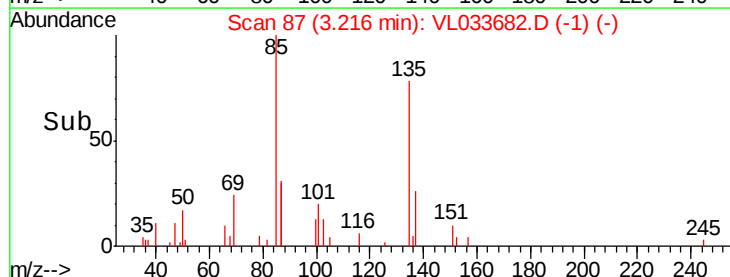
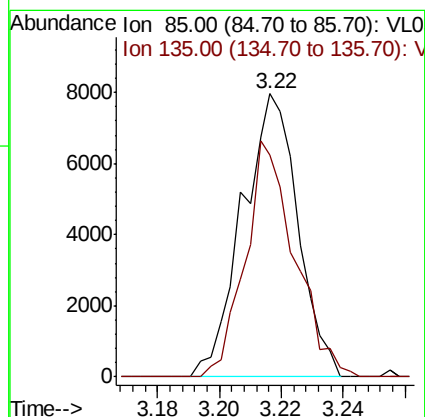
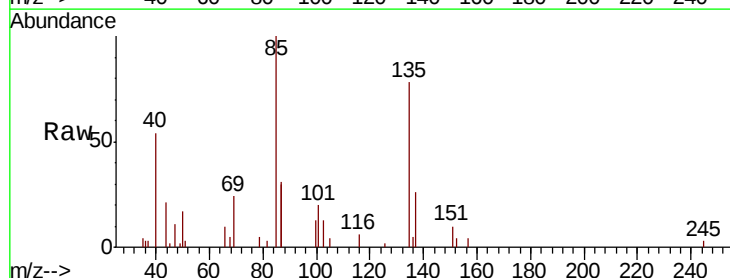
Acq: 7 May 2019 14:56

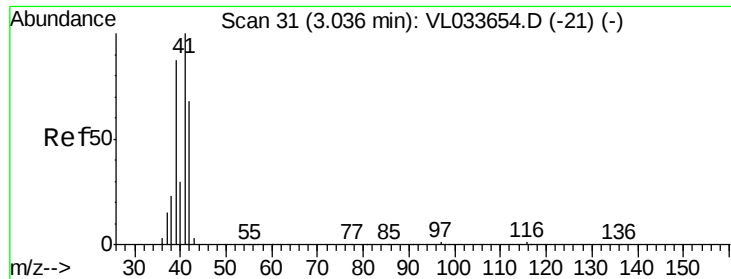
Tgt Ion: 85 Resp: 9907

Ion Ratio Lower Upper

85 100

135 74.3 54.3 81.5





#9

Propene

Concen: 0.062 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

Instrument :

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ClientSampleId :

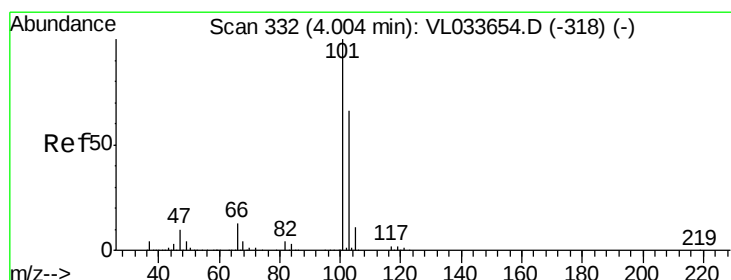
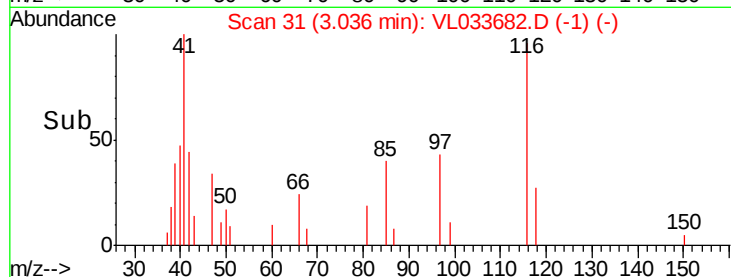
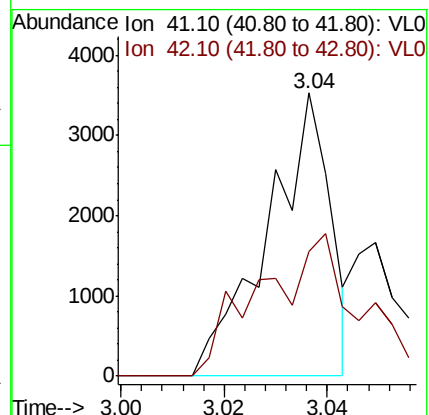
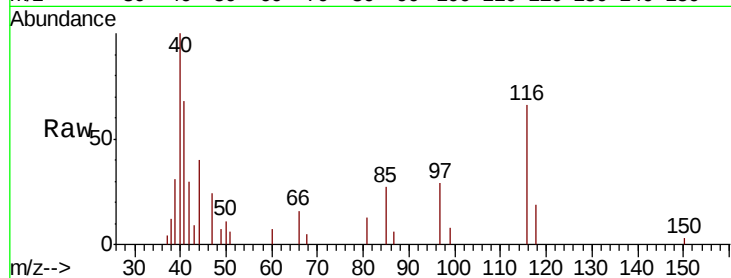
LOD-MDL-AIR-01-QT2-2019

Tgt Ion: 41 Resp: 2966

Ion Ratio Lower Upper

41 100

42 82.2 55.6 83.4



#11

Trichlorofluoromethane

Concen: 0.064 ppbv

RT: 4.00 min Scan# 330

Delta R.T. -0.01 min

Lab File: VL033682.D

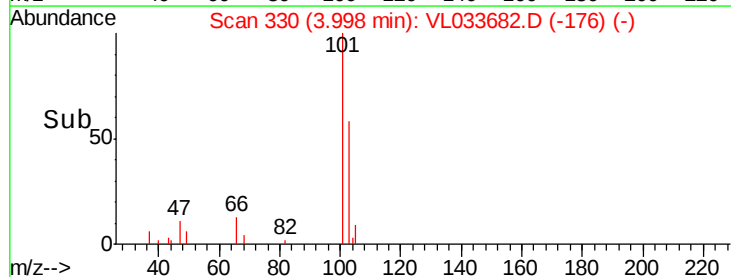
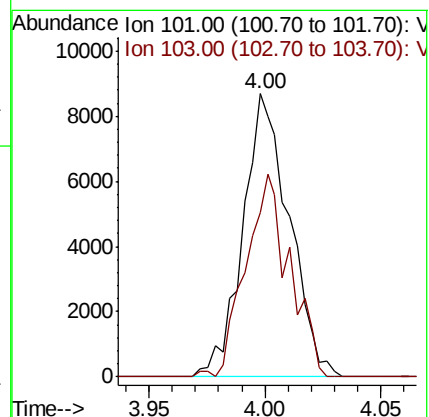
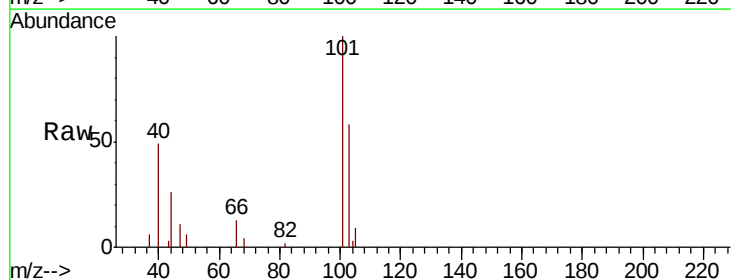
Acq: 7 May 2019 14:56

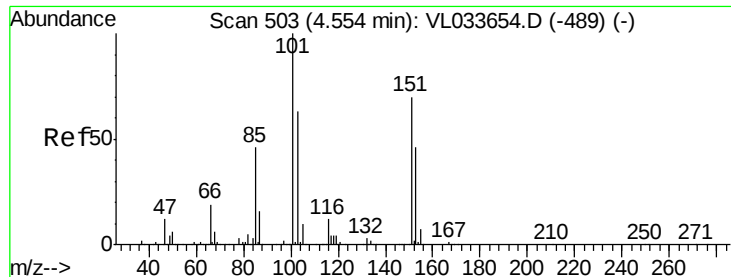
Tgt Ion: 101 Resp: 12035

Ion Ratio Lower Upper

101 100

103 58.0 52.7 79.1





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.063 ppbv

RT: 4.55 min Scan# 501

Delta R.T. -0.01 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

Instrument :

MSVOA_L

ClientSampleId :

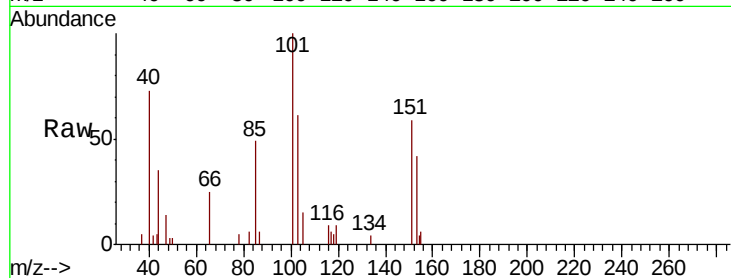
LOD-MDL-AIR-01-QT2-2019

Tgt Ion: 101 Resp: 8053

Ion Ratio Lower Upper

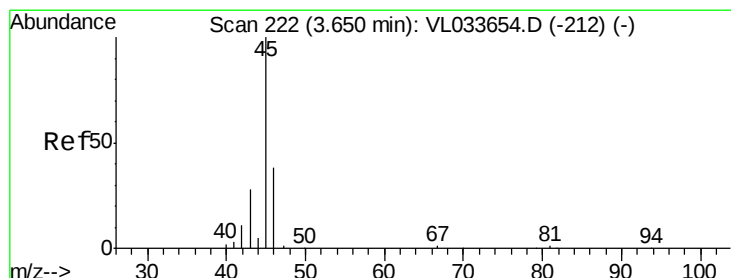
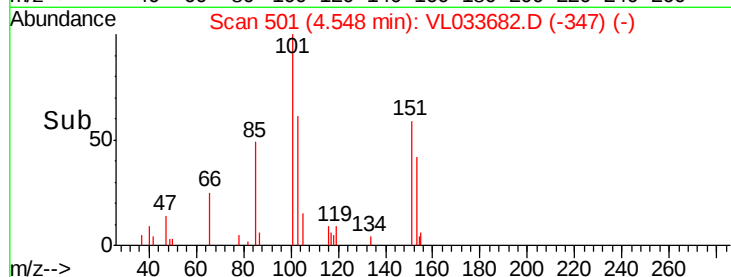
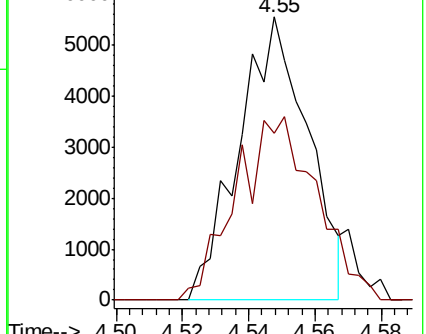
101 100

151 75.5 58.0 87.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 0.029 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033682.D

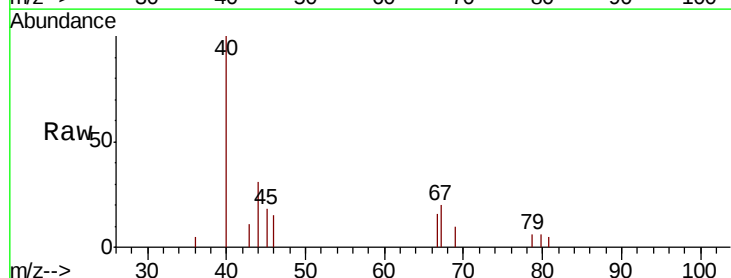
Acq: 7 May 2019 14:56

Tgt Ion: 45 Resp: 412

Ion Ratio Lower Upper

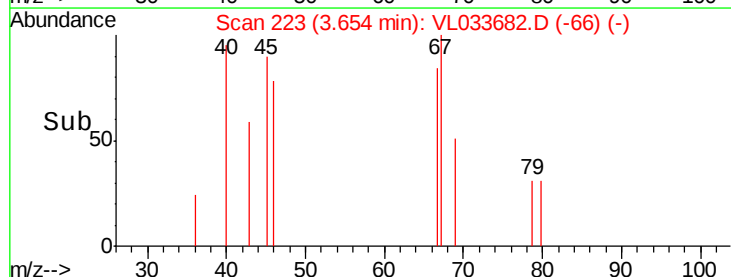
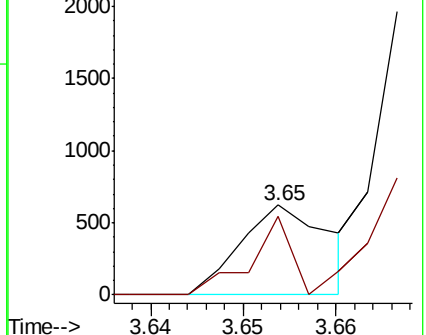
45 100

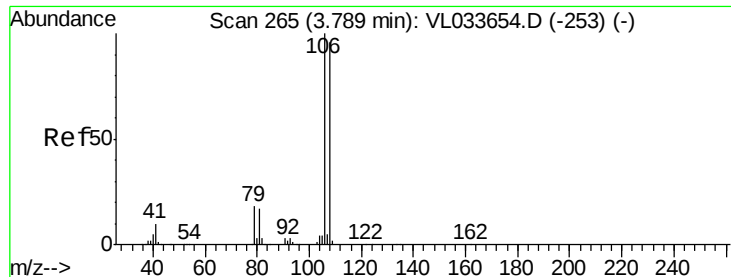
46 0.0 14.9 59.7#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#14

Bromoethene

Concen: 0.021 ppbv

RT: 3.78 min Scan# 262

Delta R.T. -0.01 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

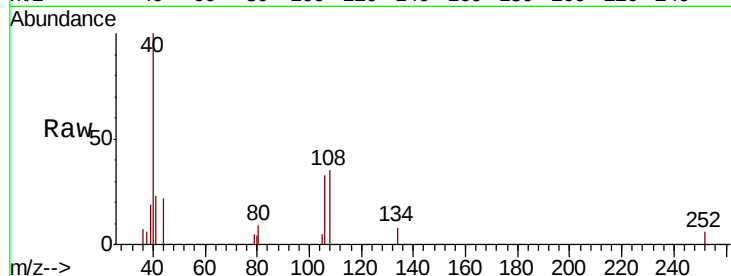
Tgt Ion: 108 Resp: 1040

Ion Ratio Lower Upper

108 100

106 249.2 85.7 128.5#

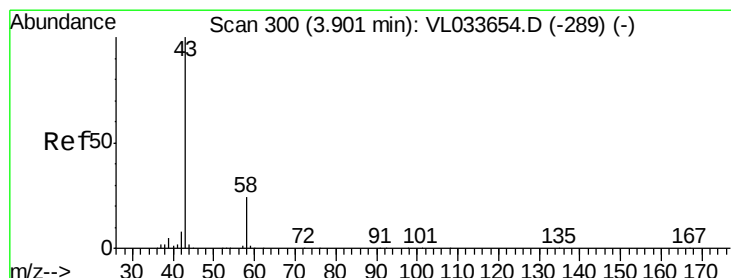
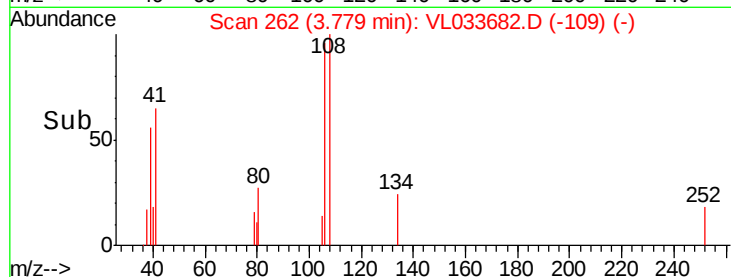
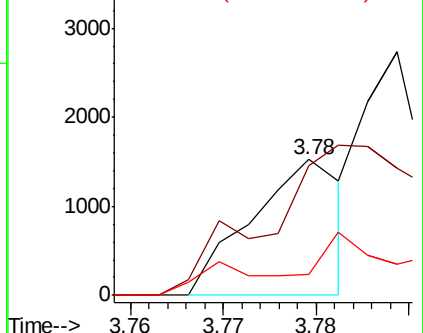
79 84.3 15.2 22.8#



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VLO



#15

Acetone

Concen: 0.155 ppbv

RT: 3.92 min Scan# 306

Delta R.T. 0.02 min

Lab File: VL033682.D

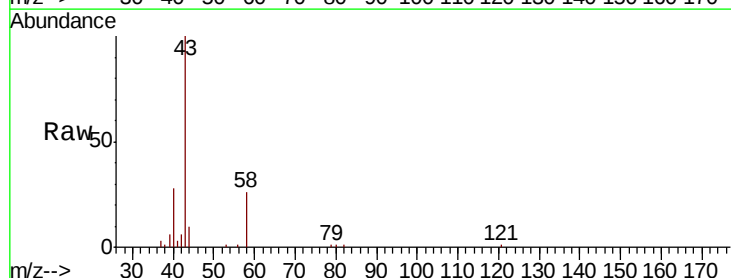
Acq: 7 May 2019 14:56

Tgt Ion: 43 Resp: 19895

Ion Ratio Lower Upper

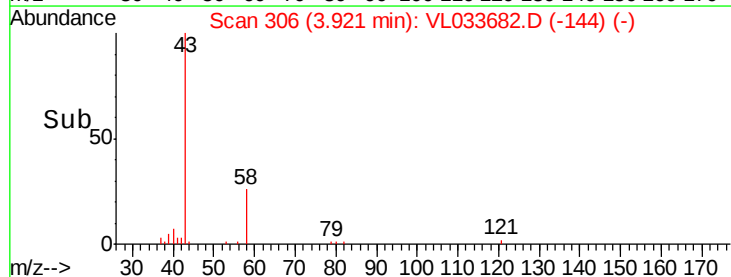
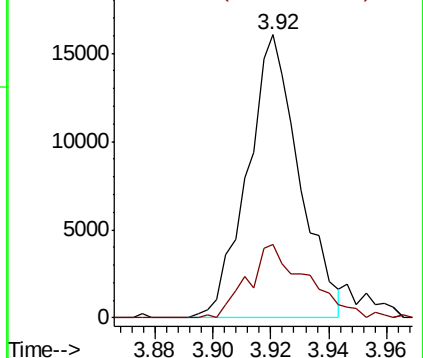
43 100

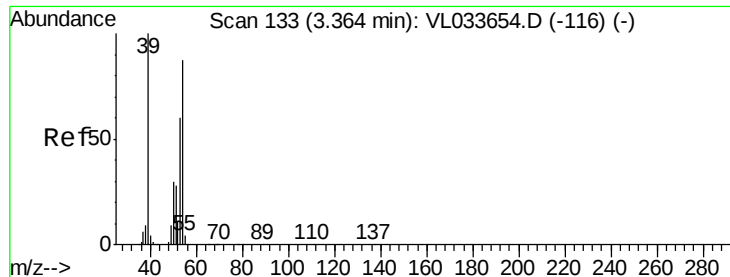
58 29.7 20.9 31.3



Abundance Ion 43.10 (42.80 to 43.80): VLO

Ion 58.10 (57.80 to 58.80): VLO

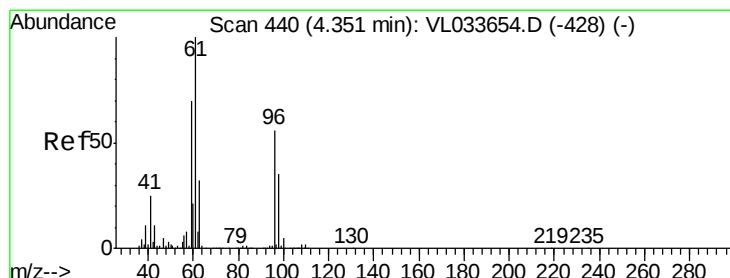
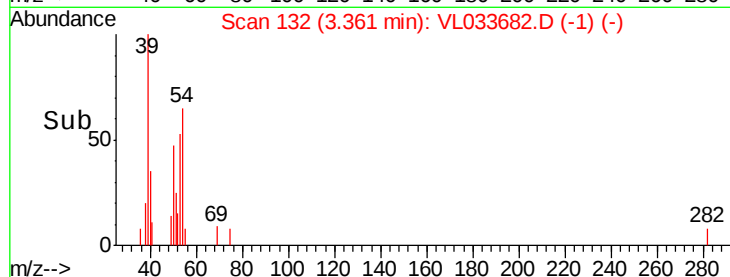
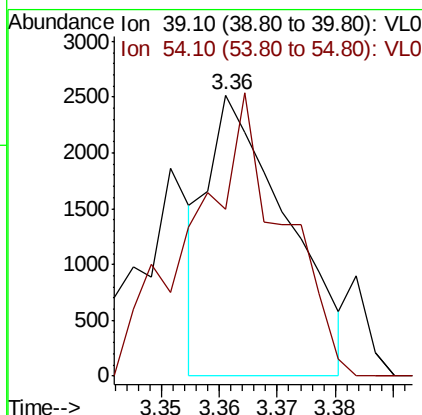
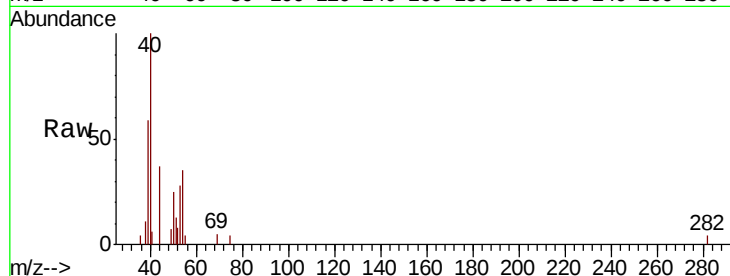




#16
 1,3-Butadiene
 Concen: 0.043 ppbv
 RT: 3.36 min Scan# 132
 Delta R.T. -0.00 min
 Lab File: VL033682.D
 Acq: 7 May 2019 14:56

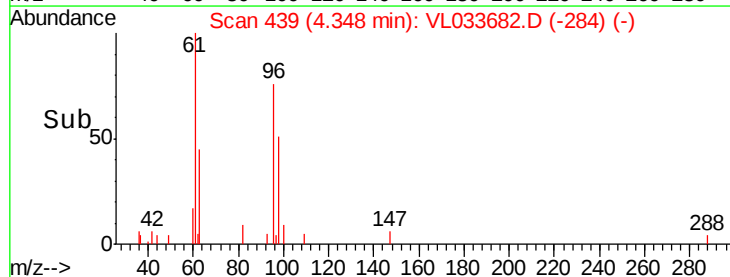
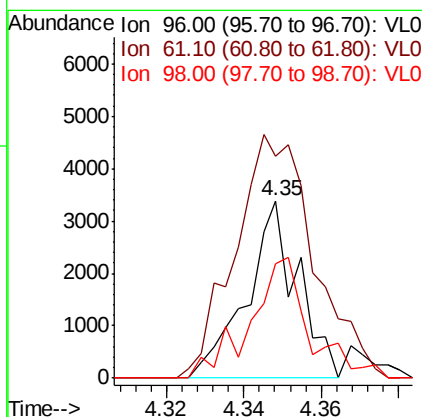
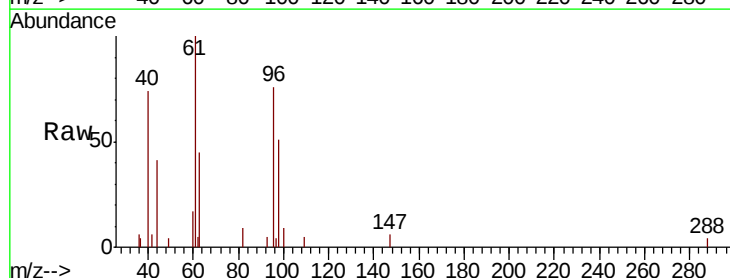
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

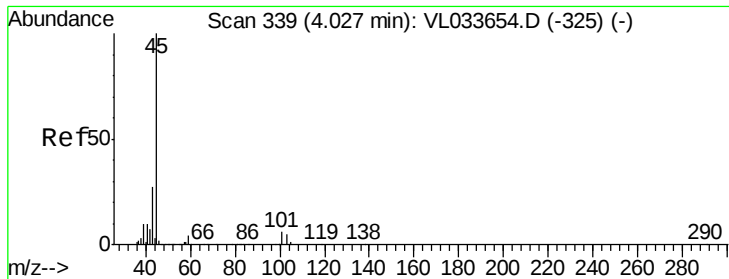
Tgt Ion: 39 Resp: 2395
 Ion Ratio Lower Upper
 39 100
 54 115.6 67.0 100.4#



#18
 1,1-Dichloroethene
 Concen: 0.057 ppbv
 RT: 4.35 min Scan# 439
 Delta R.T. -0.00 min
 Lab File: VL033682.D
 Acq: 7 May 2019 14:56

Tgt Ion: 96 Resp: 3121
 Ion Ratio Lower Upper
 96 100
 61 119.7 143.4 215.0#
 98 64.4 50.4 75.6





#19

Isopropyl Alcohol

Concen: 0.089 ppbv

RT: 4.05 min Scan# 346

Delta R.T. 0.02 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

Instrument :

MSVOA_L

ClientSampleId :

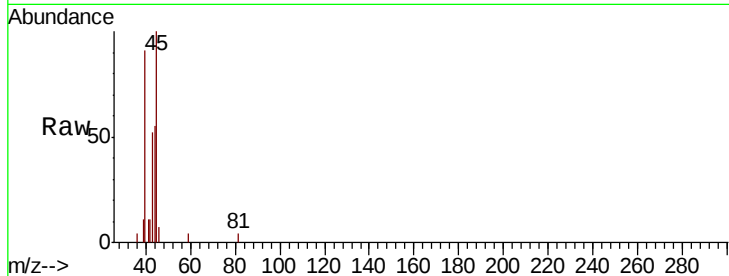
LOD-MDL-AIR-01-QT2-2019

Tgt Ion: 45 Resp: 7019

Ion Ratio Lower Upper

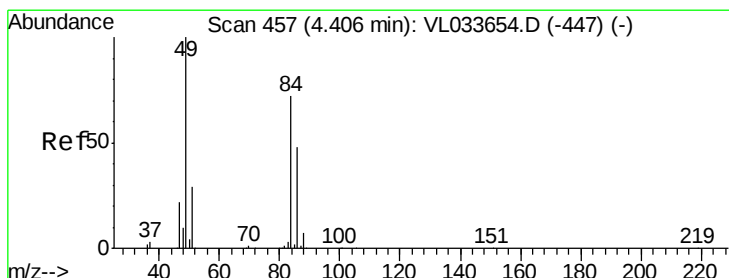
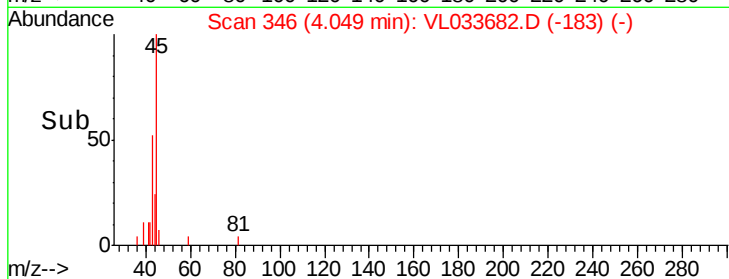
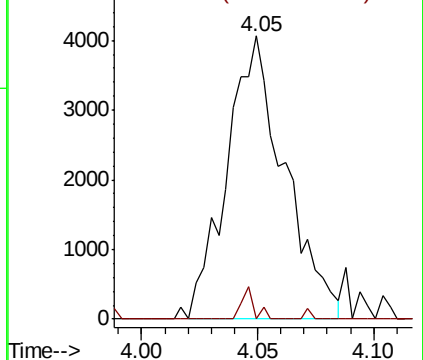
45 100

58 2.8 2.0 3.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.139 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

Tgt Ion: 84 Resp: 6797

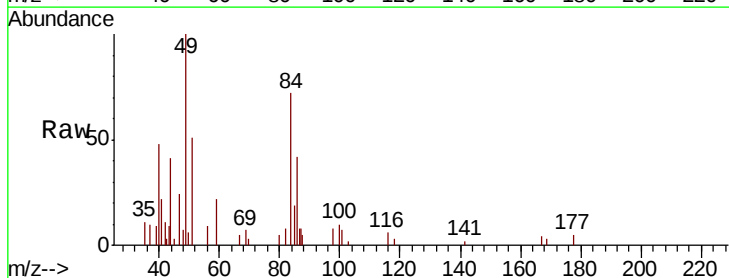
Ion Ratio Lower Upper

84 100

49 146.0 111.8 167.6

51 70.3 32.3 48.5#

86 68.5 53.9 80.9

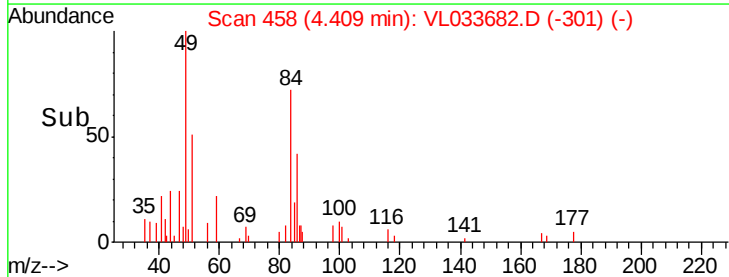
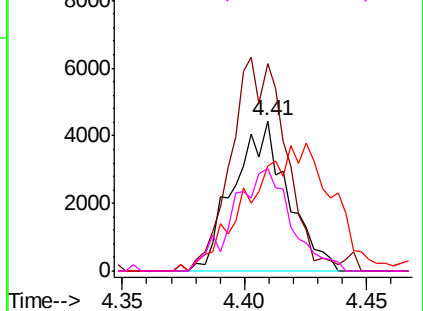


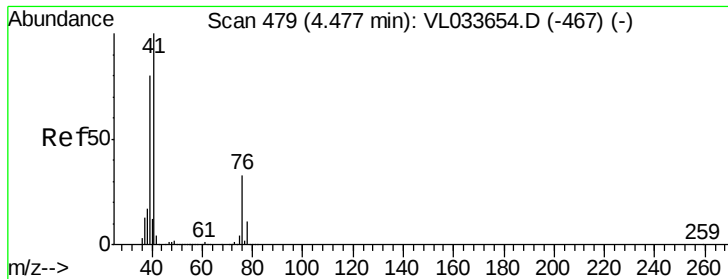
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

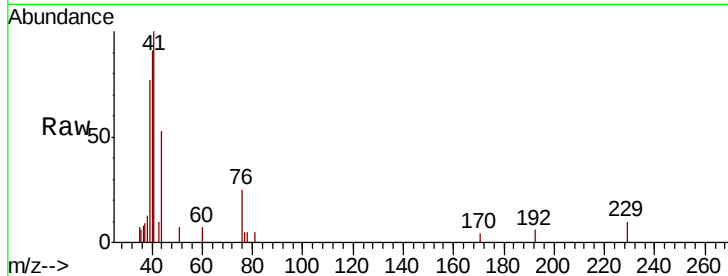




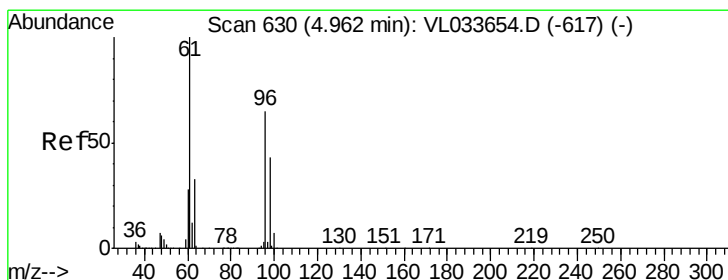
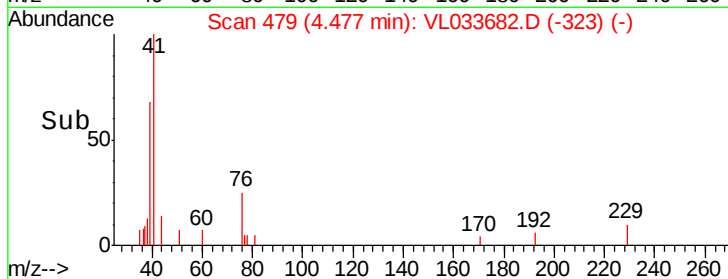
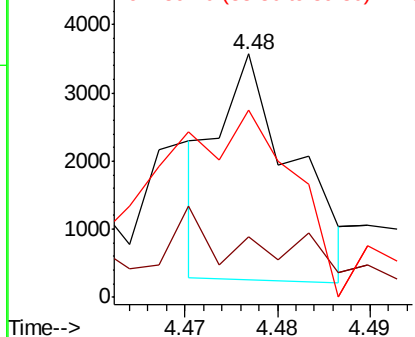
#21
 Allyl Chloride
 Concen: 0.024 ppbv
 RT: 4.48 min Scan# 479
 Delta R.T. 0.00 min
 Lab File: VL033682.D
 Acq: 7 May 2019 14:56

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

Tgt Ion: 41 Resp: 1872
 Ion Ratio Lower Upper
 41 100
 76 79.2 26.0 39.0#
 39 212.2 64.4 96.6#

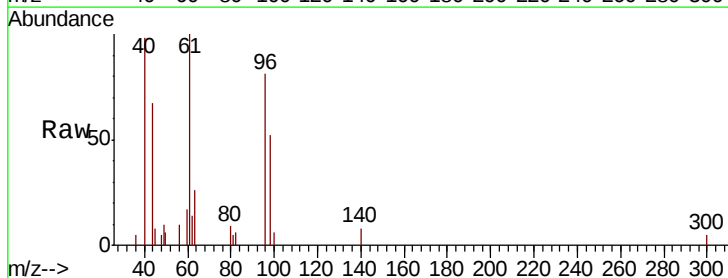


Abundance Ion 41.10 (40.80 to 41.80): VL0
 Ion 76.10 (75.80 to 76.80): VL0
 Ion 39.10 (38.80 to 39.80): VL0

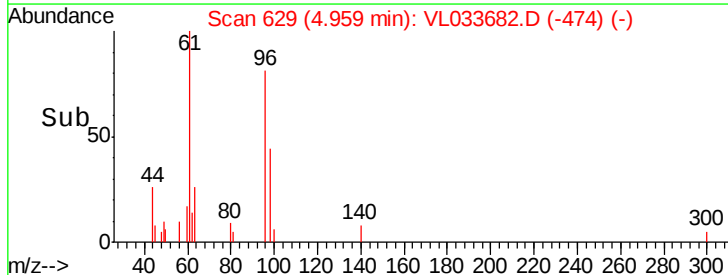
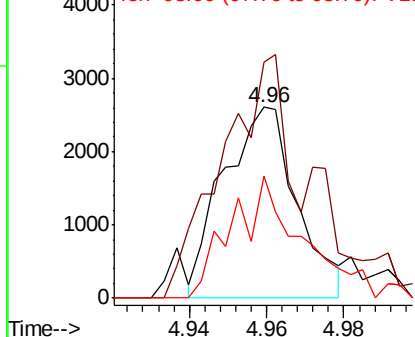


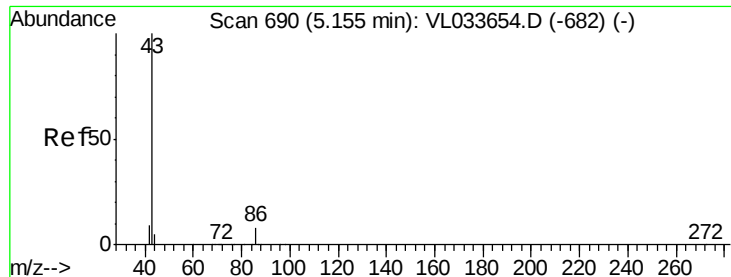
#22
 trans-1,2-Dichloroethene
 Concen: 0.062 ppbv
 RT: 4.96 min Scan# 629
 Delta R.T. -0.00 min
 Lab File: VL033682.D
 Acq: 7 May 2019 14:56

Tgt Ion: 96 Resp: 3439
 Ion Ratio Lower Upper
 96 100
 61 107.0 123.1 184.7#
 98 68.6 52.6 79.0



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





#23

Vinyl Acetate

Concen: 0.038 ppbv

RT: 5.16 min Scan# 691

Delta R.T. 0.00 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

Tgt Ion: 43 Resp: 6270

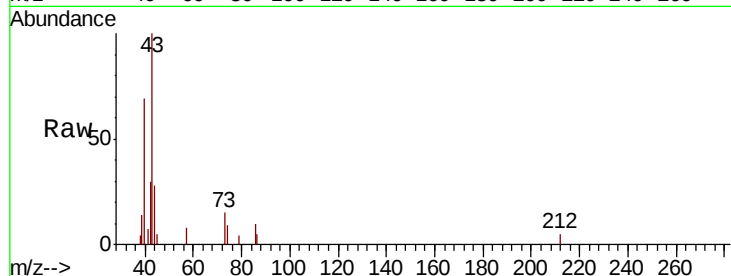
Ion Ratio Lower Upper

43 100

86 5.6 6.0 9.0#

42 36.0 8.0 12.0#

44 0.0 3.9 5.9#

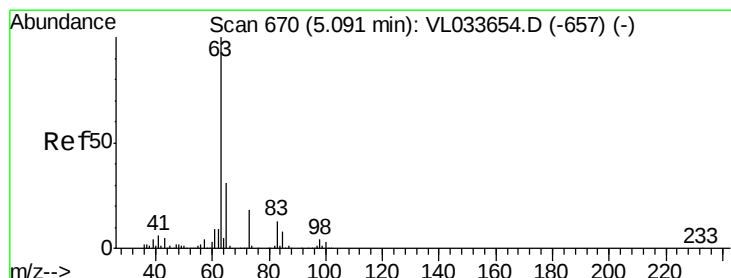
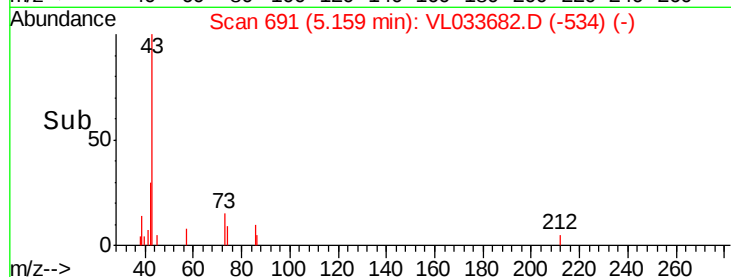
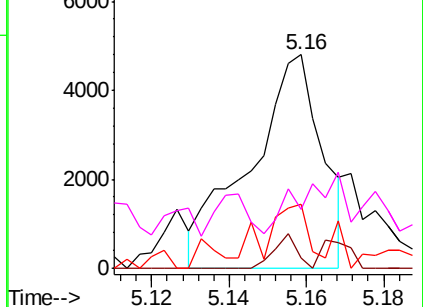


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.062 ppbv

RT: 5.09 min Scan# 670

Delta R.T. 0.00 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

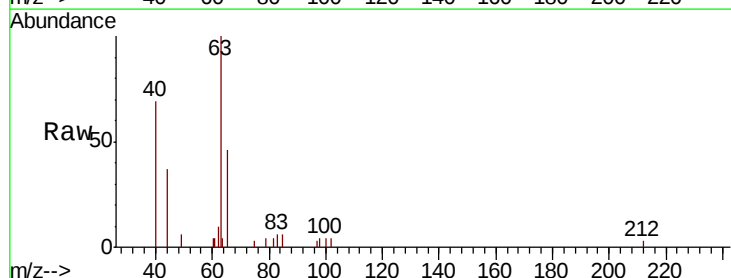
Tgt Ion: 63 Resp: 7791

Ion Ratio Lower Upper

63 100

98 4.0 2.1 6.2

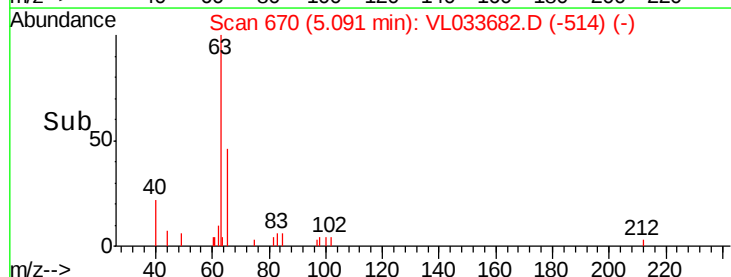
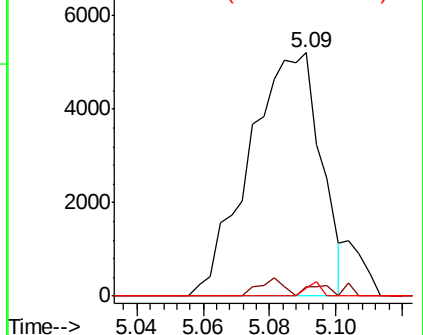
100 3.5 1.5 4.4

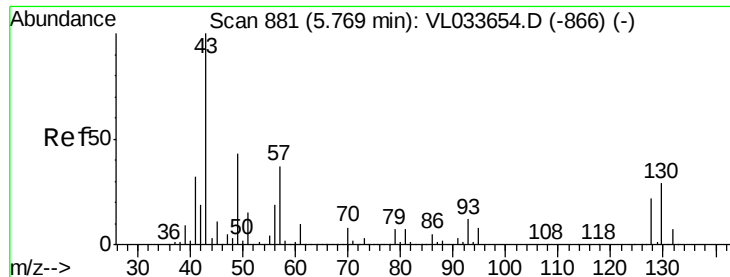


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

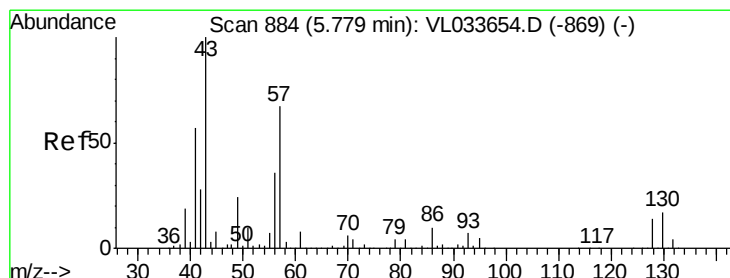
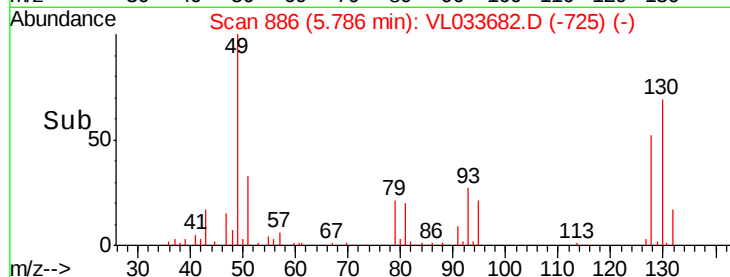
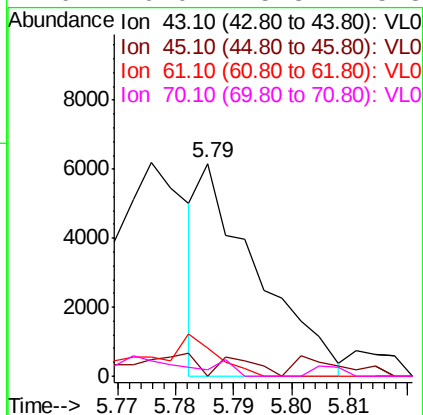
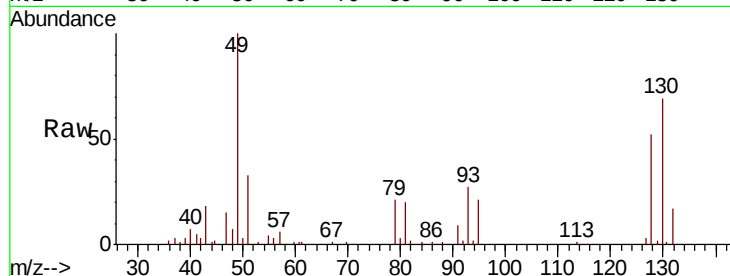




#25
Ethyl Acetate
Concen: 0.020 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.02 min
Lab File: VL033682.D
Acq: 7 May 2019 14:56

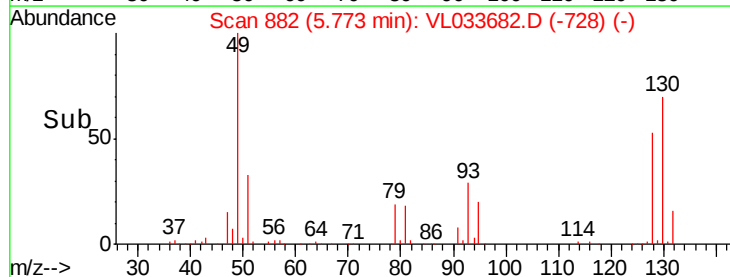
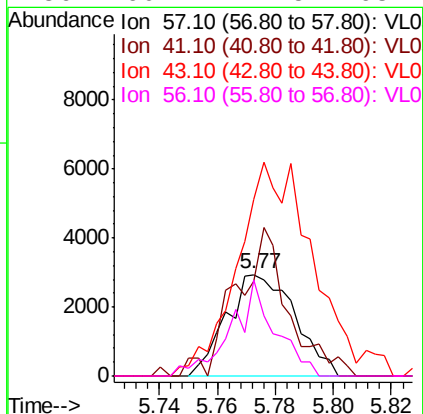
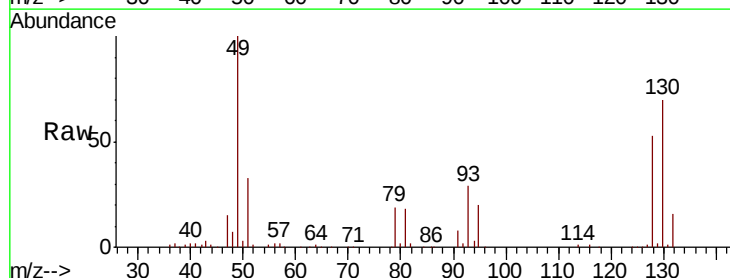
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT2-2019

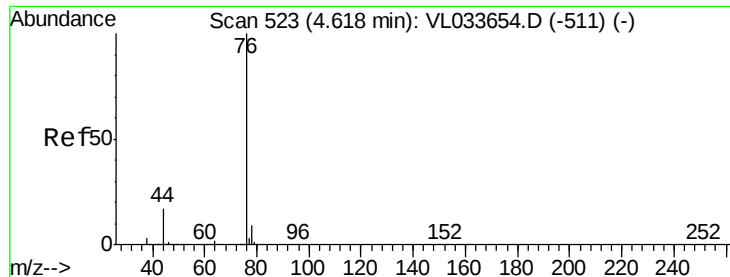
Tgt Ion:	43	Resp:	4265
Ion	Ratio	Lower	Upper
43	100		
45	30.7	8.0	12.0#
61	23.1	7.5	11.3#
70	0.0	5.8	8.8#



#26
Hexane
Concen: 0.053 ppbv
RT: 5.77 min Scan# 882
Delta R.T. -0.01 min
Lab File: VL033682.D
Acq: 7 May 2019 14:56

Tgt Ion:	57	Resp:	4781
Ion	Ratio	Lower	Upper
57	100		
41	114.6	69.7	104.5#
43	235.5	181.9	272.9
56	60.7	42.5	63.7





#27

Carbon Disulfide

Concen: 0.015 ppbv

RT: 4.61 min Scan# 520

Delta R.T. -0.01 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

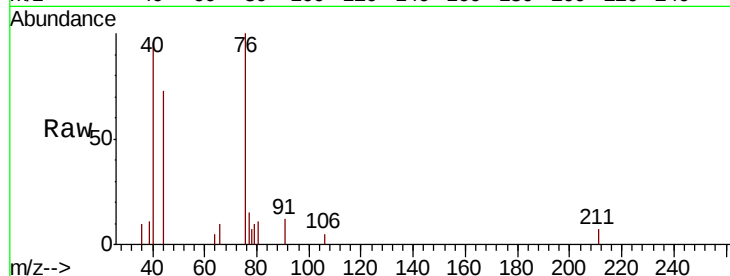
Tgt Ion: 76 Resp: 1831

Ion Ratio Lower Upper

76 100

44 44.7 14.4 21.6#

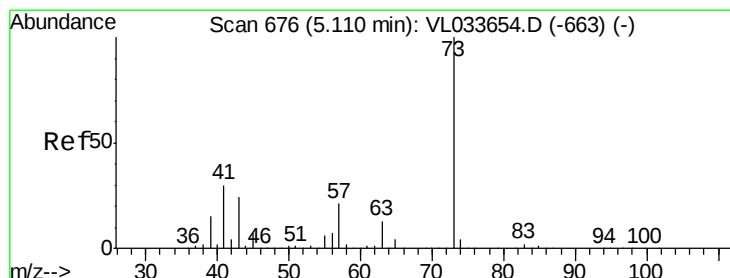
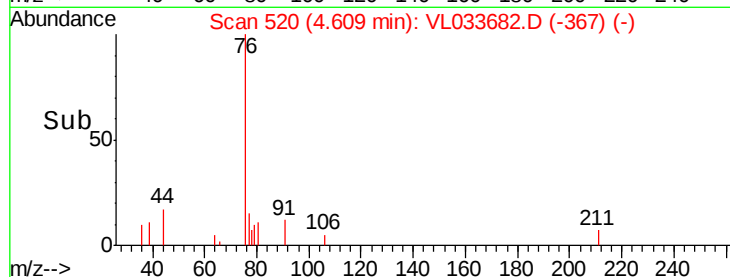
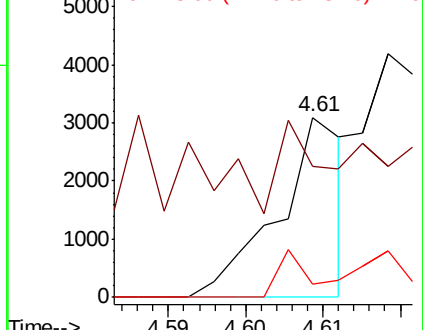
78 41.9 7.4 11.2#



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 0.038 ppbv

RT: 5.13 min Scan# 683

Delta R.T. 0.02 min

Lab File: VL033682.D

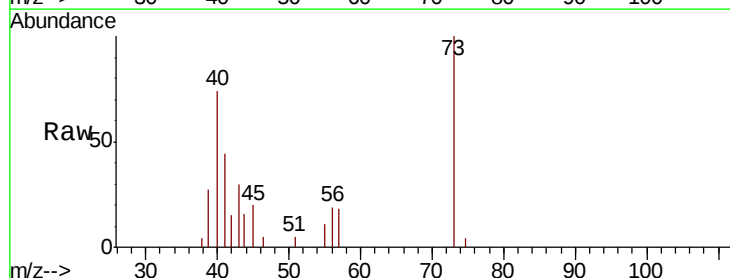
Acq: 7 May 2019 14:56

Tgt Ion: 73 Resp: 5824

Ion Ratio Lower Upper

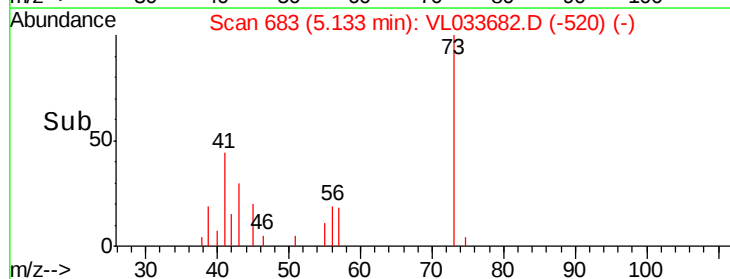
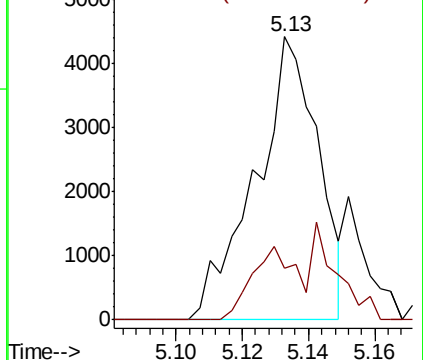
73 100

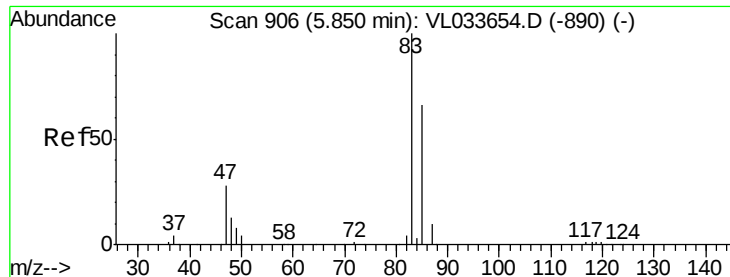
57 0.0 17.4 26.0#



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 0.060 ppbv

RT: 5.84 min Scan# 904

Delta R.T. -0.01 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

Instrument :

MSVOA_L

ClientSampleId :

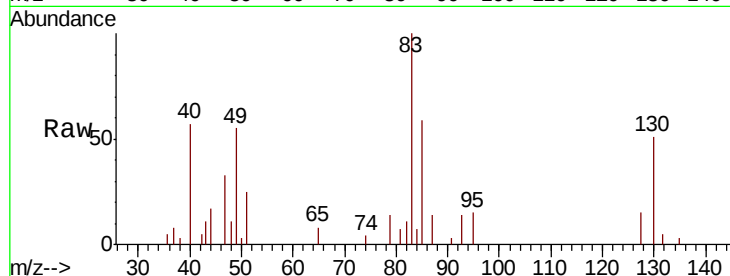
LOD-MDL-AIR-01-QT2-2019

Tgt Ion: 83 Resp: 9655

Ion Ratio Lower Upper

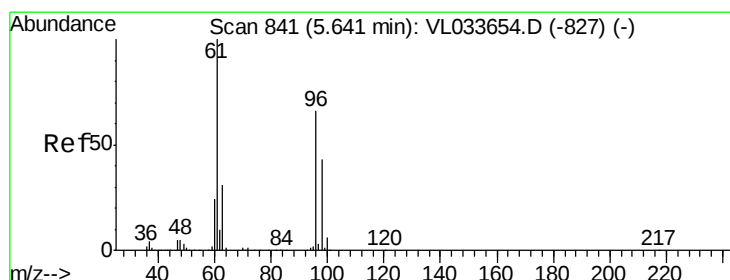
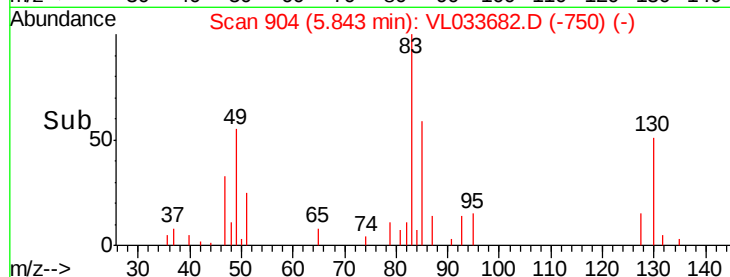
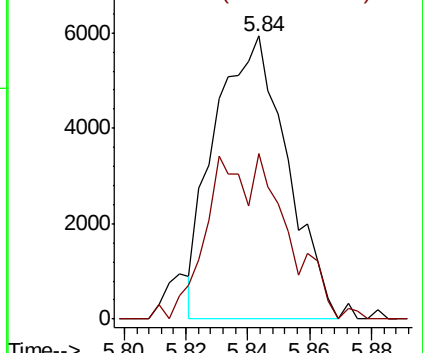
83 100

85 58.7 52.6 78.8



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#31

cis-1,2-Dichloroethene

Concen: 0.027 ppbv

RT: 5.63 min Scan# 838

Delta R.T. -0.01 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

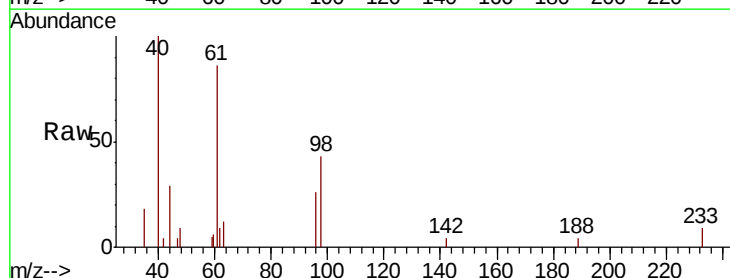
Tgt Ion: 61 Resp: 2420

Ion Ratio Lower Upper

61 100

96 24.2 53.2 79.8#

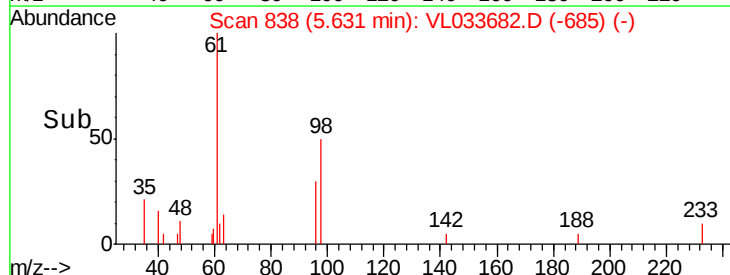
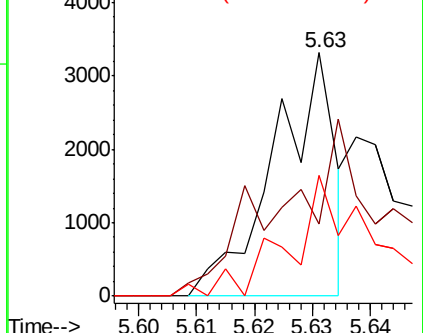
98 44.7 34.2 51.4

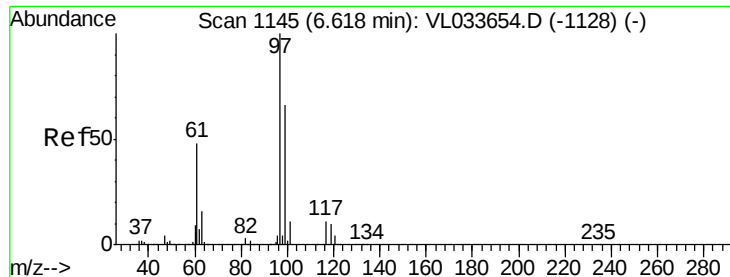


Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0





#32

1,1,1-Trichloroethane

Concen: 0.041 ppbv

RT: 6.61 min Scan# 1143

Delta R.T. -0.01 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

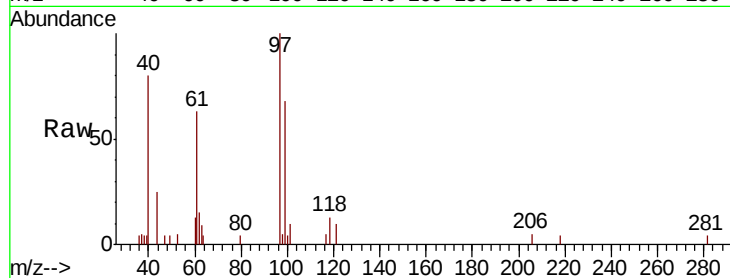
Tgt Ion: 97 Resp: 6907

Ion Ratio Lower Upper

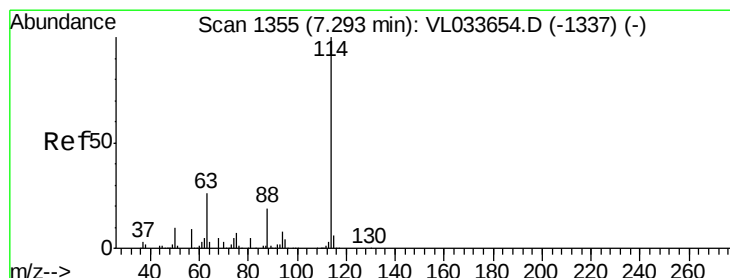
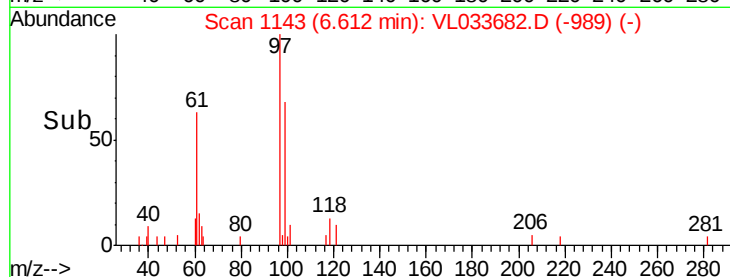
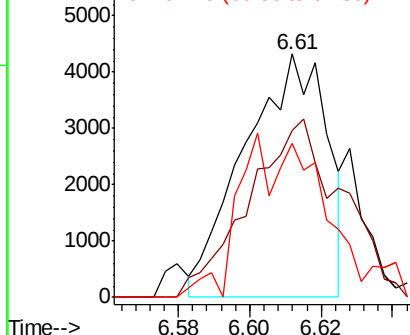
97 100

99 82.2 51.4 77.2#

61 69.6 38.5 57.7#



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: 7.28 min Scan# 1352

Delta R.T. -0.01 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

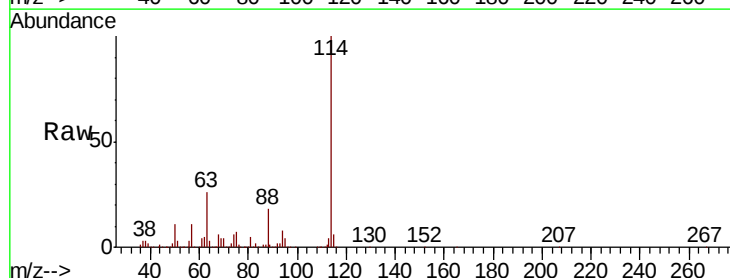
Tgt Ion: 114 Resp: 2010754

Ion Ratio Lower Upper

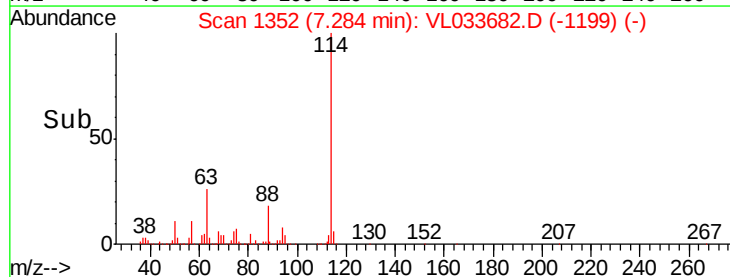
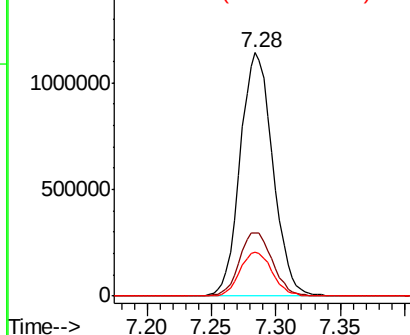
114 100

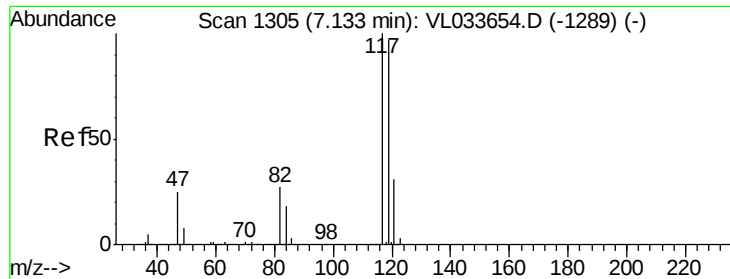
63 26.4 21.3 31.9

88 18.0 14.4 21.6



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





#35

Carbon Tetrachloride

Concen: 0.038 ppbv

RT: 7.13 min Scan# 1303

Delta R.T. -0.01 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

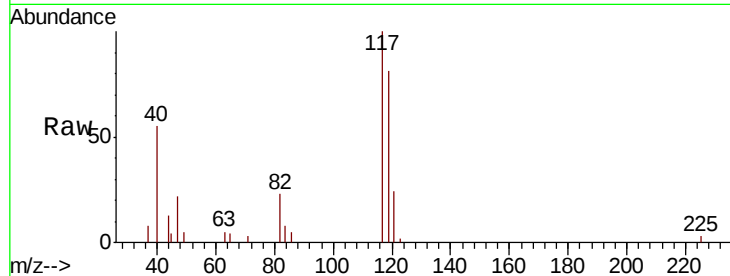
Tgt Ion:117 Resp: 6243

Ion Ratio Lower Upper

117 100

119 40.7 77.9 116.9#

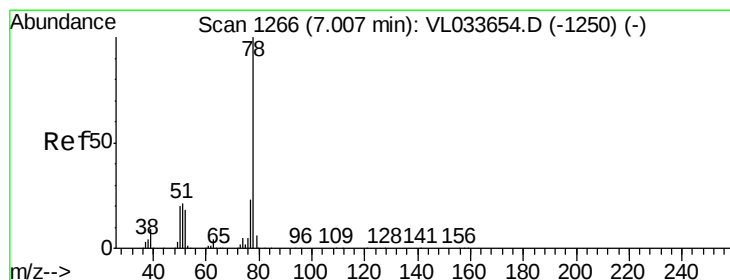
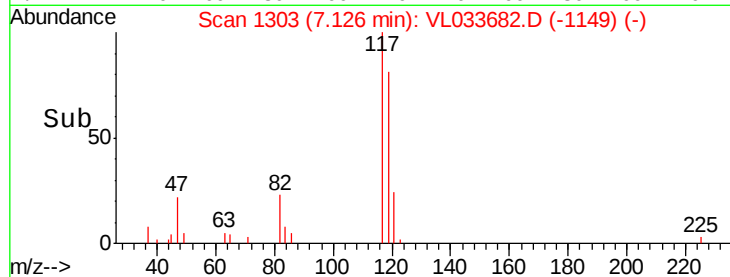
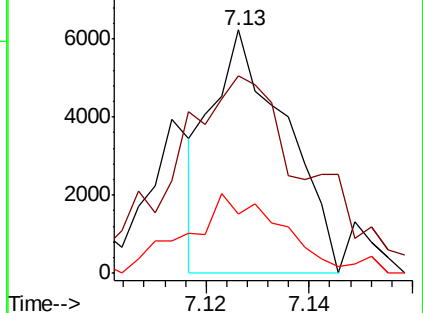
121 21.6 25.0 37.6#



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: 0.027 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. -0.01 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

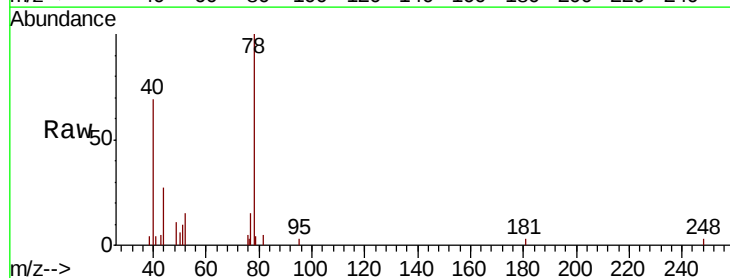
Tgt Ion: 78 Resp: 4850

Ion Ratio Lower Upper

78 100

77 15.7 18.2 27.2#

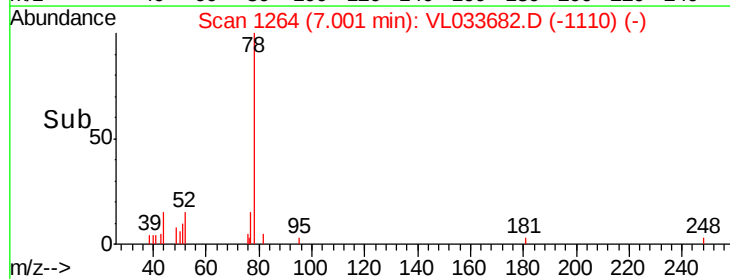
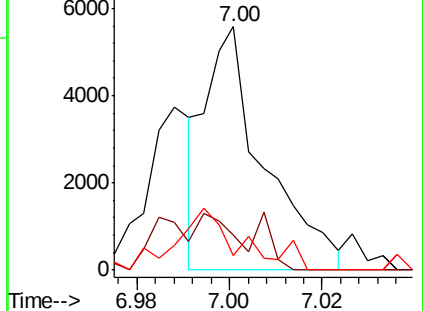
50 6.5 15.8 23.6#

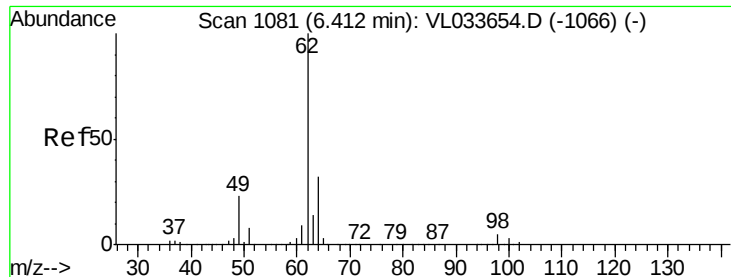


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

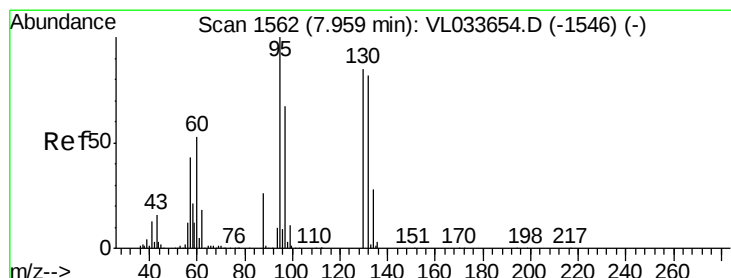
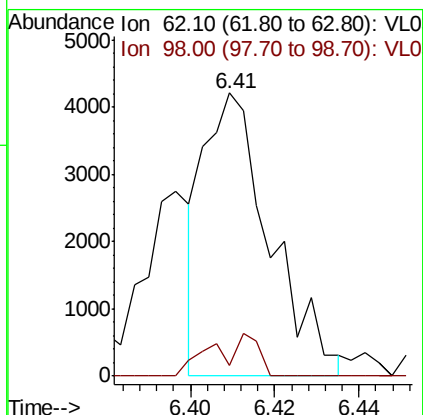
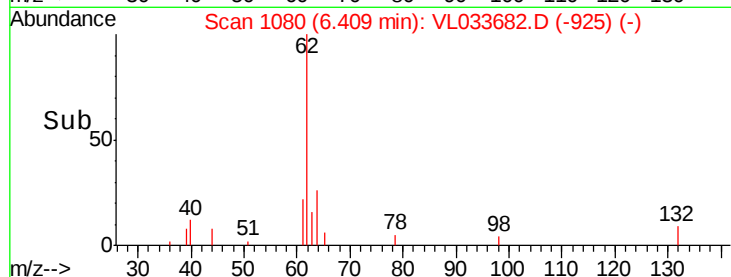
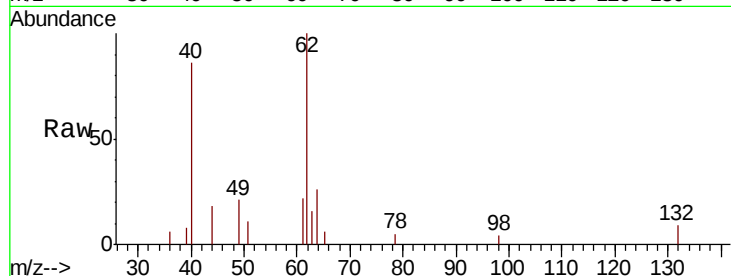




#37
 1,2-Dichloroethane
 Concen: 0.037 ppbv
 RT: 6.41 min Scan# 1080
 Delta R.T. -0.00 min
 Lab File: VL033682.D
 Acq: 7 May 2019 14:56

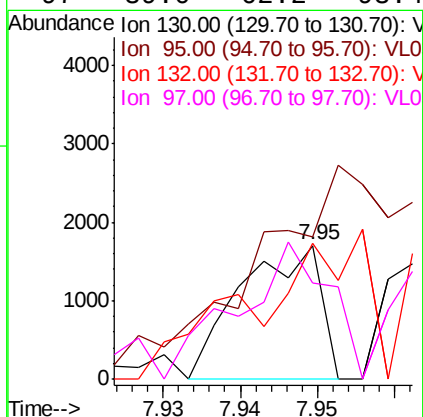
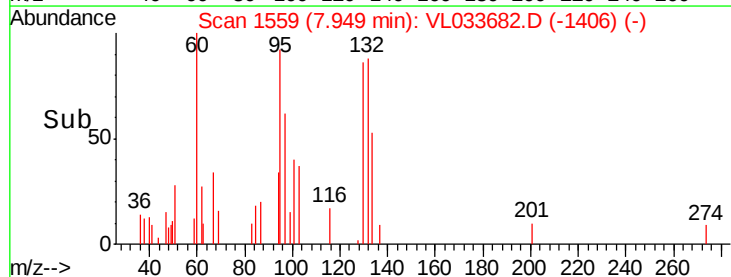
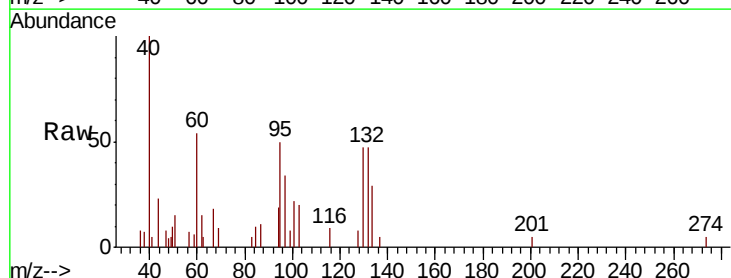
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

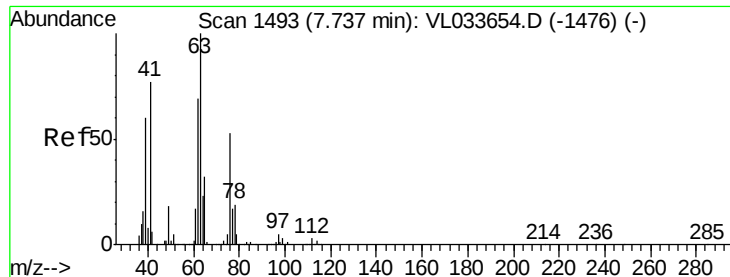
Tgt Ion: 62 Resp: 4605
 Ion Ratio Lower Upper
 62 100
 98 10.2 4.5 6.7#



#38
 Trichloroethene
 Concen: 0.019 ppbv
 RT: 7.95 min Scan# 1559
 Delta R.T. -0.01 min
 Lab File: VL033682.D
 Acq: 7 May 2019 14:56

Tgt Ion: 130 Resp: 1226
 Ion Ratio Lower Upper
 130 100
 95 65.8 93.4 140.0#
 132 67.7 76.2 114.4#
 97 39.0 62.2 93.4#





#39

1,2-Dichloropropane

Concen: 7.859 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. -0.45 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

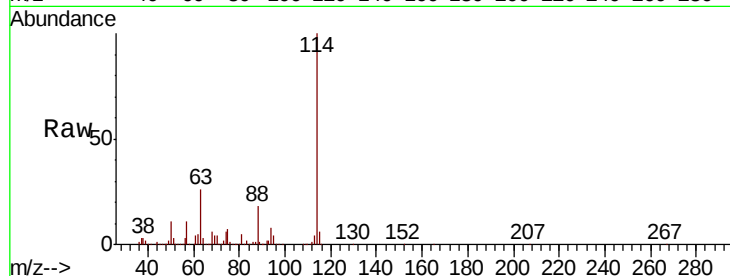
Tgt Ion: 63 Resp: 528131

Ion Ratio Lower Upper

63 100

41 0.2 61.6 92.4#

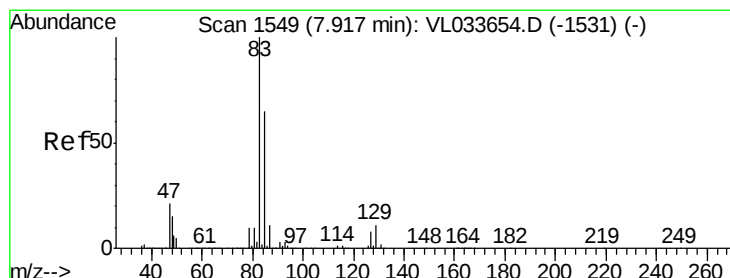
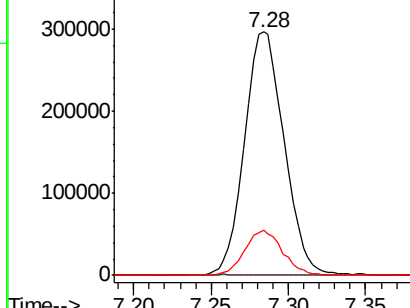
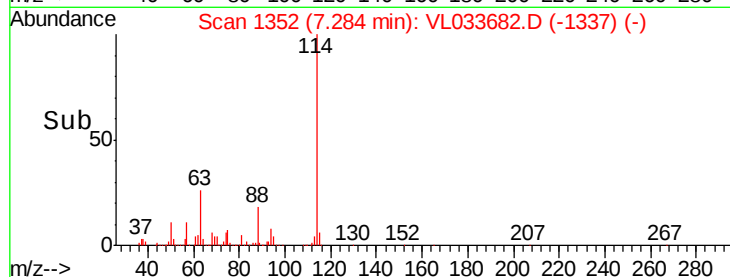
62 18.6 55.0 82.6#



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: 0.029 ppbv

RT: 7.90 min Scan# 1545

Delta R.T. -0.01 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

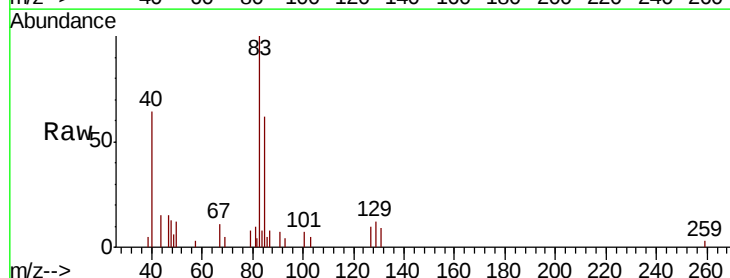
Tgt Ion: 83 Resp: 4667

Ion Ratio Lower Upper

83 100

85 64.5 52.4 78.6

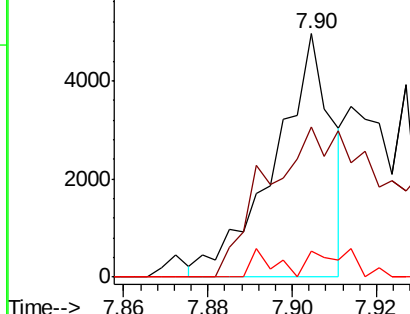
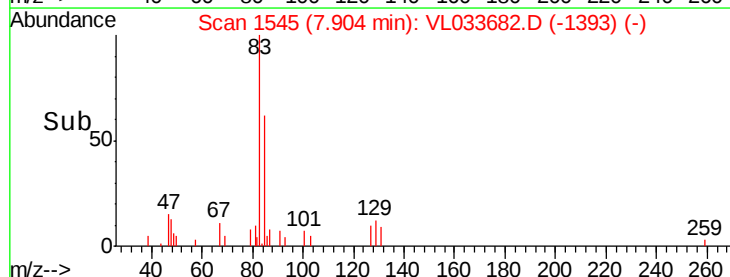
127 10.9 6.6 9.8#

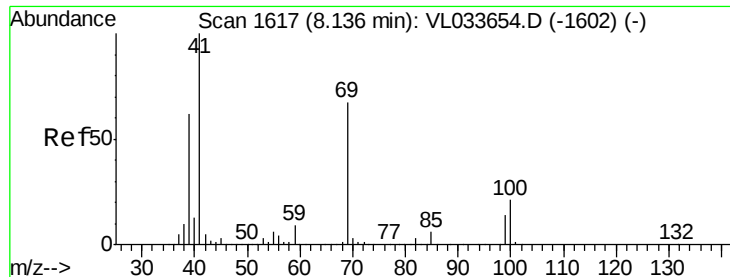


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 0.012 ppbv

RT: 8.12 min Scan# 1613

Delta R.T. -0.01 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

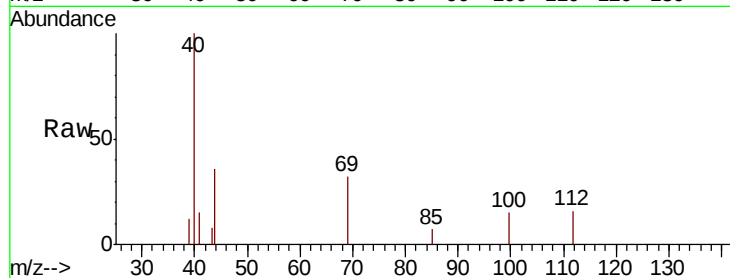
Tgt Ion: 69 Resp: 834

Ion Ratio Lower Upper

69 100

41 0.0 116.6 175.0#

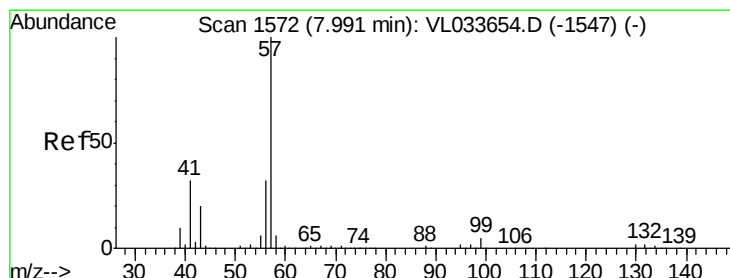
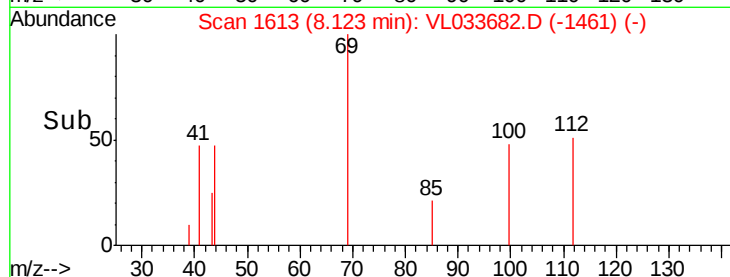
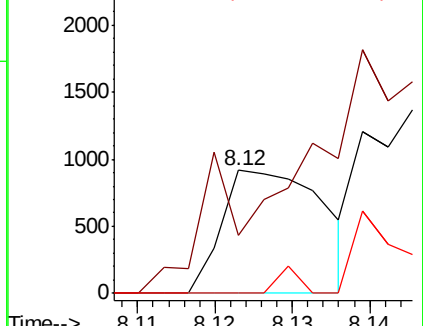
100 0.0 24.6 37.0#



Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.024 ppbv

RT: 7.99 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

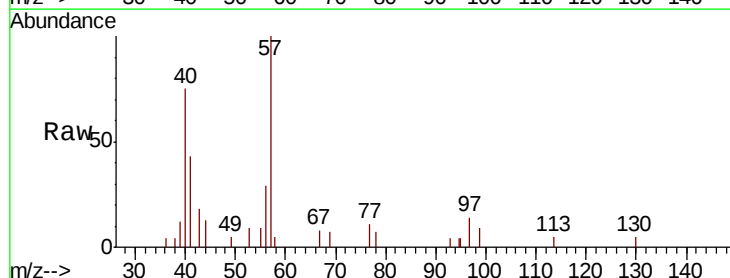
Tgt Ion: 57 Resp: 7287

Ion Ratio Lower Upper

57 100

41 66.6 25.7 38.5#

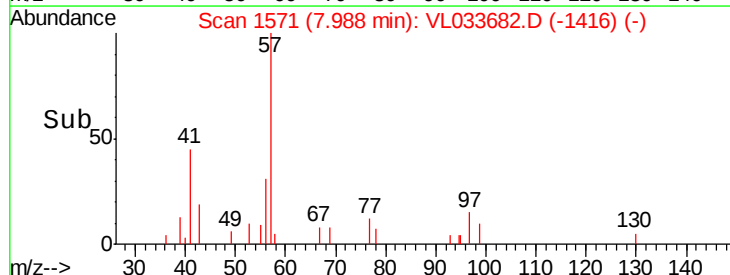
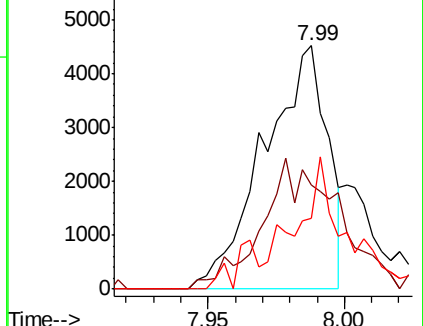
56 50.5 25.0 37.6#

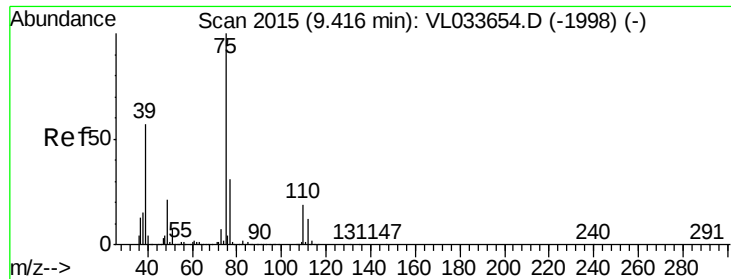


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

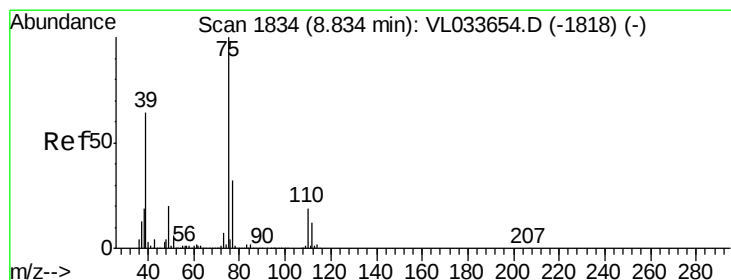
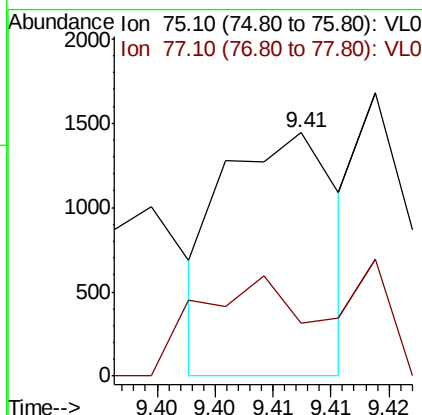
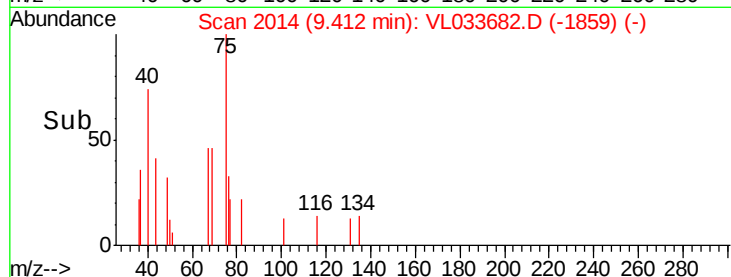
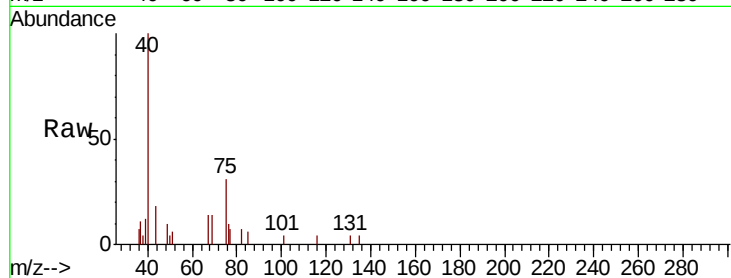




#45
t-1,3-Dichloropropene
Concen: 0.012 ppbv
RT: 9.41 min Scan# 2014
Delta R.T. -0.00 min
Lab File: VL033682.D
Acq: 7 May 2019 14:56

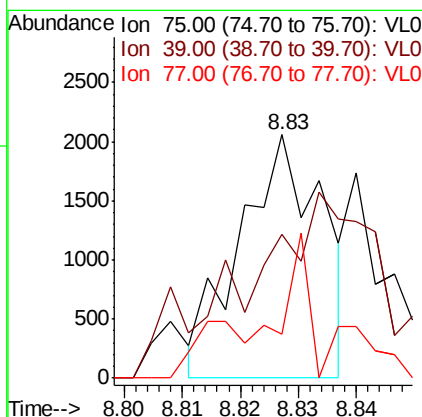
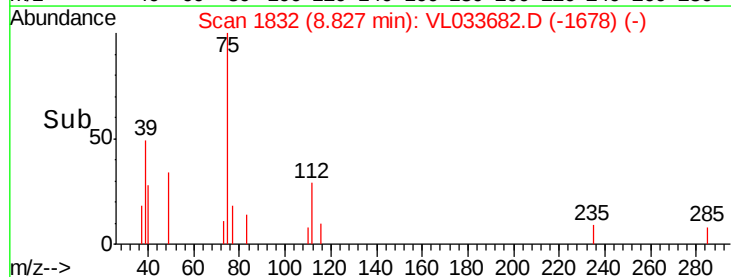
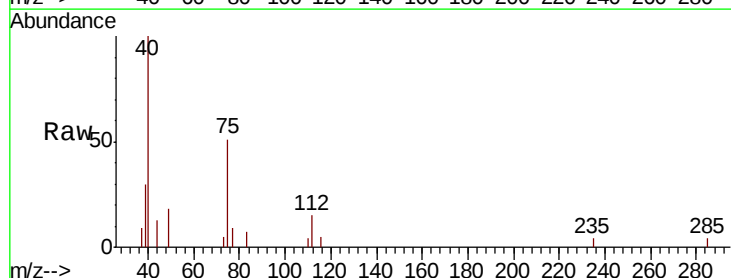
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT2-2019

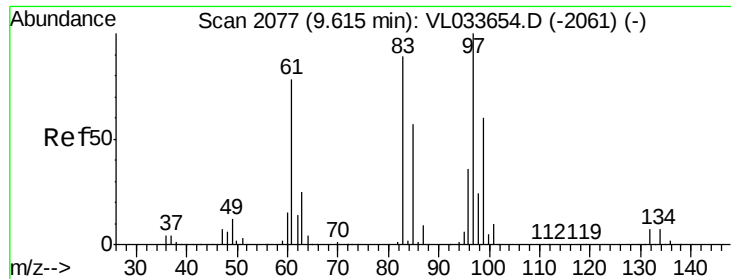
Tgt Ion: 75 Resp: 980
Ion Ratio Lower Upper
75 100
77 22.1 24.7 37.1#



#46
cis-1,3-Dichloropropene
Concen: 0.020 ppbv
RT: 8.83 min Scan# 1832
Delta R.T. -0.01 min
Lab File: VL033682.D
Acq: 7 May 2019 14:56

Tgt Ion: 75 Resp: 2039
Ion Ratio Lower Upper
75 100
39 46.8 51.5 77.3#
77 8.5 25.4 38.0#

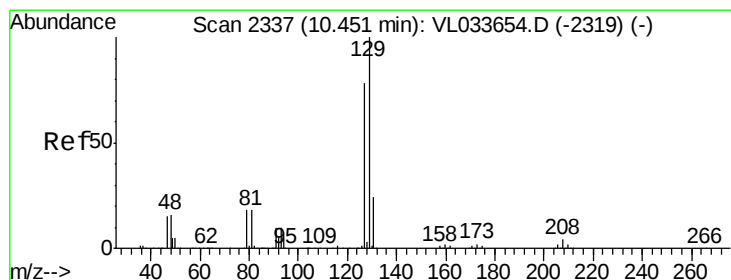
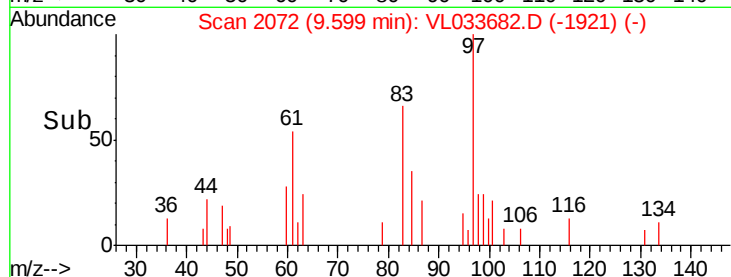
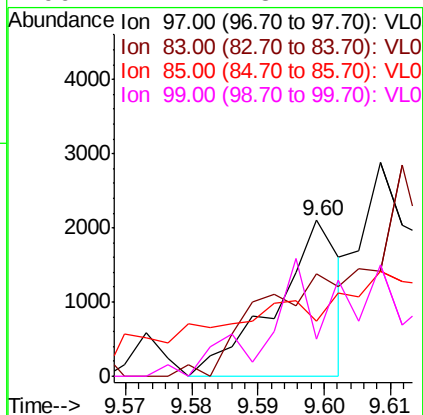
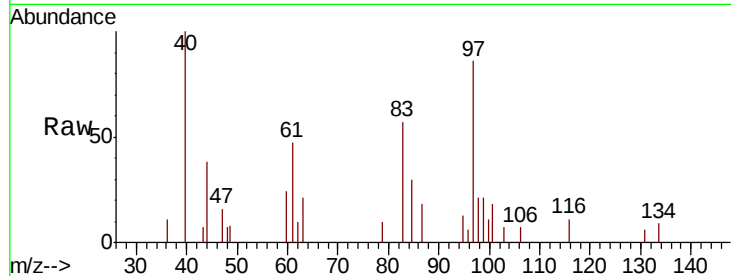




#47
 1,1,2-Trichloroethane
 Concen: 0.018 ppbv
 RT: 9.60 min Scan# 2072
 Delta R.T. -0.02 min
 Lab File: VL033682.D
 Acq: 7 May 2019 14:56

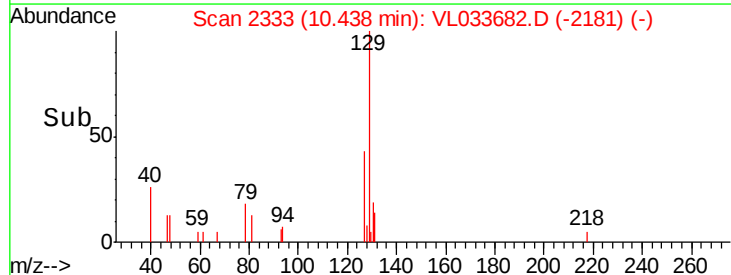
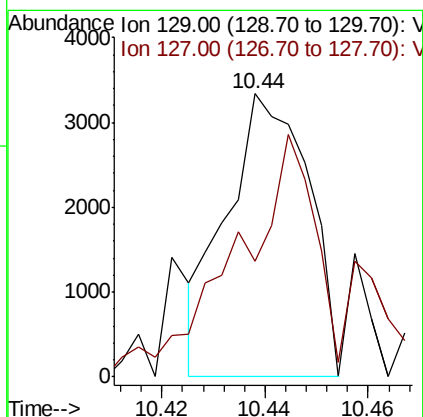
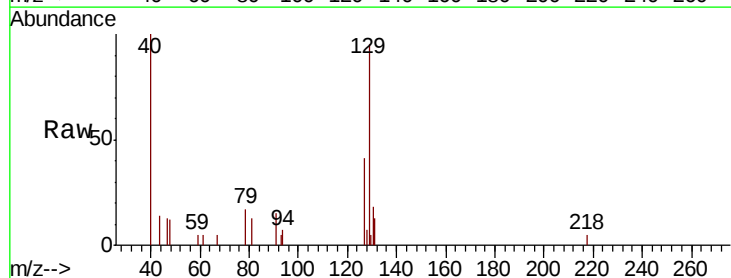
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

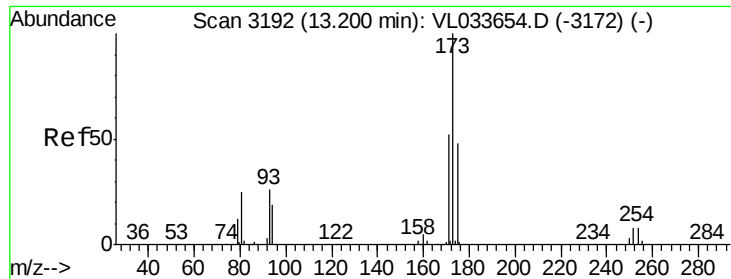
Tgt Ion: 97 Resp: 1423
 Ion Ratio Lower Upper
 97 100
 83 58.5 70.9 106.3#
 85 1.6 45.8 68.6#
 99 24.1 48.2 72.4#



#48
 Dibromochloromethane
 Concen: 0.028 ppbv
 RT: 10.44 min Scan# 2333
 Delta R.T. -0.01 min
 Lab File: VL033682.D
 Acq: 7 May 2019 14:56

Tgt Ion: 129 Resp: 3677
 Ion Ratio Lower Upper
 129 100
 127 106.3 39.1 117.2





#49

Bromoform

Concen: 0.012 ppbv

RT: 13.19 min Scan# 3189

Delta R.T. -0.01 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

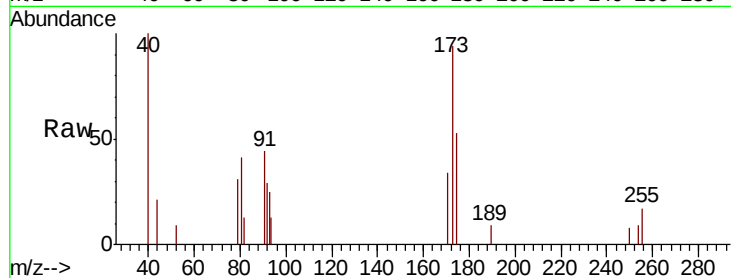
Tgt Ion:173 Resp: 1411

Ion Ratio Lower Upper

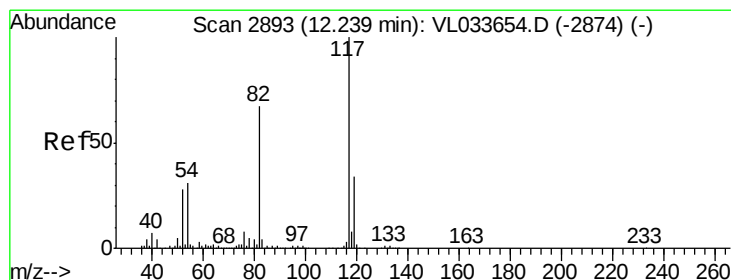
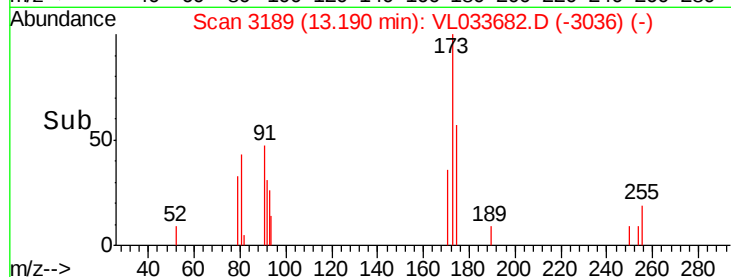
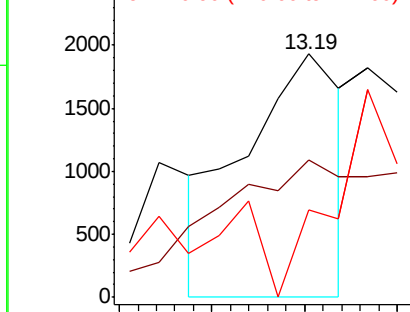
173 100

175 154.9 39.3 58.9#

171 0.0 41.5 62.3#



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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

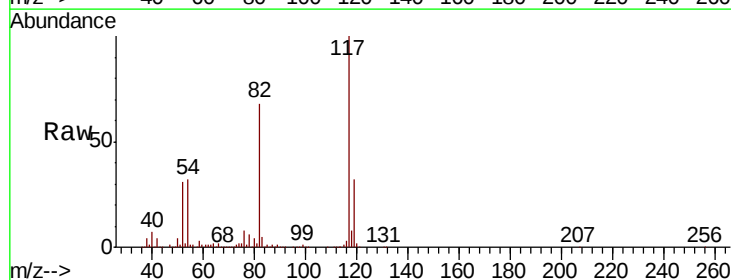
Tgt Ion:117 Resp: 1920334

Ion Ratio Lower Upper

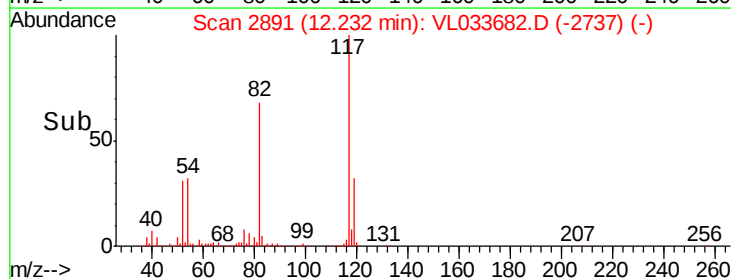
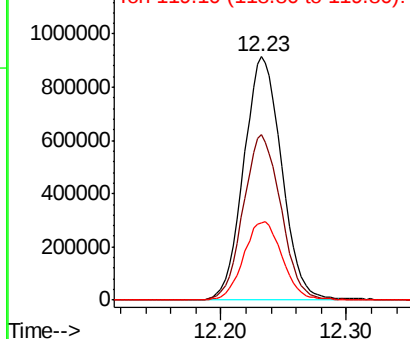
117 100

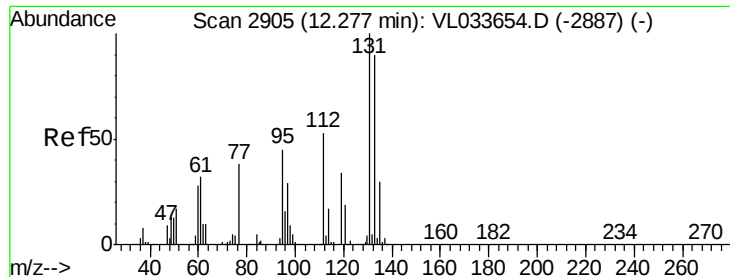
82 68.1 49.7 74.5

119 33.1 24.8 37.2



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

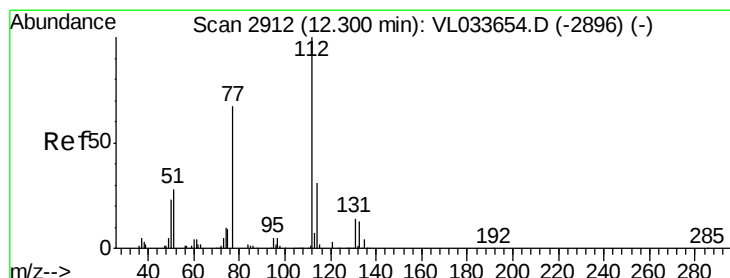
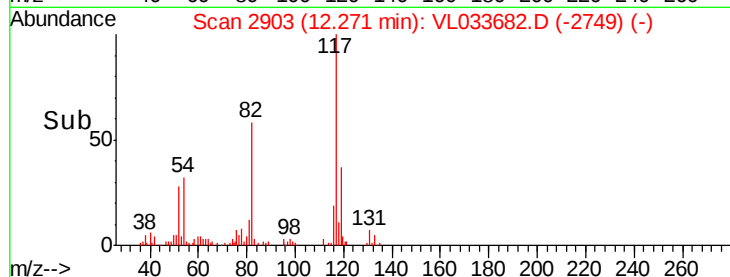
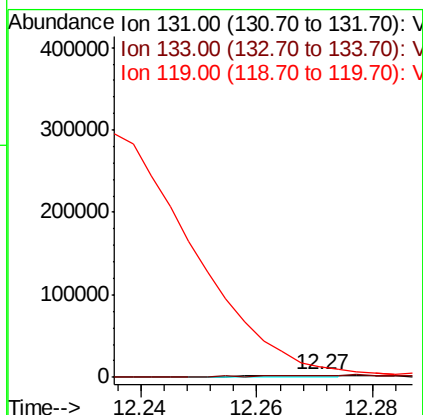
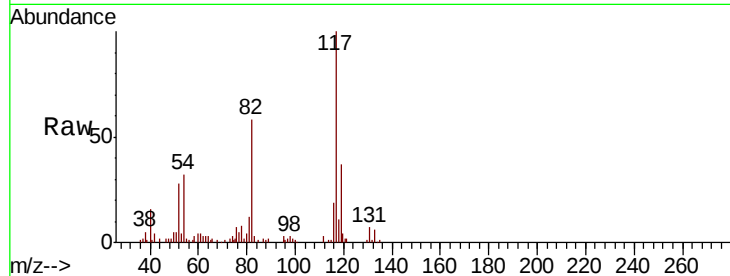




#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.029 ppbv
 RT: 12.27 min Scan# 2903
 Delta R.T. -0.01 min
 Lab File: VL033682.D
 Acq: 7 May 2019 14:56

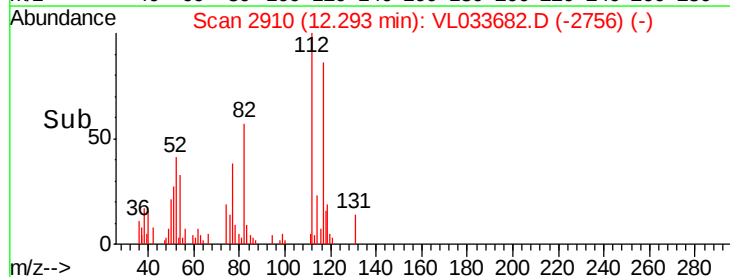
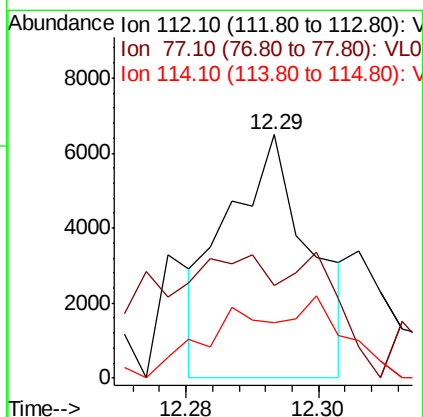
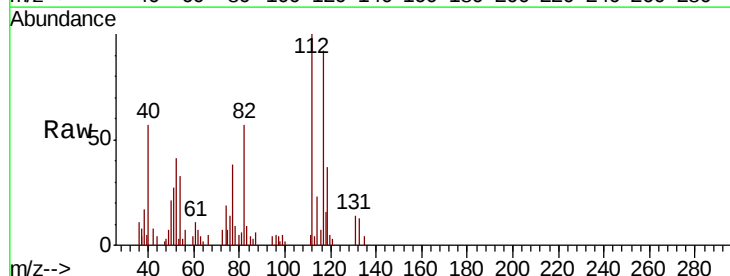
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

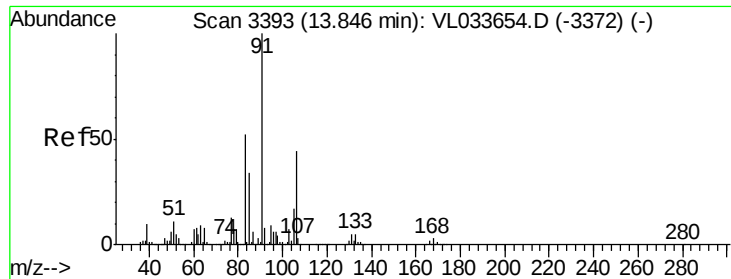
Tgt Ion:131 Resp: 2541
 Ion Ratio Lower Upper
 131 100
 133 0.0 76.0 114.0#
 119 0.0 45.4 68.2#



#57
 Chlorobenzene
 Concen: 0.036 ppbv
 RT: 12.29 min Scan# 2910
 Delta R.T. -0.01 min
 Lab File: VL033682.D
 Acq: 7 May 2019 14:56

Tgt Ion:112 Resp: 5671
 Ion Ratio Lower Upper
 112 100
 77 9.2 54.4 81.6#
 114 12.1 28.2 34.4#





#60

o-Xylene

Concen: 0.011 ppbv

RT: 13.84 min Scan# 3392

Delta R.T. -0.00 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

Instrument :

MSVOA_L

ClientSampleId :

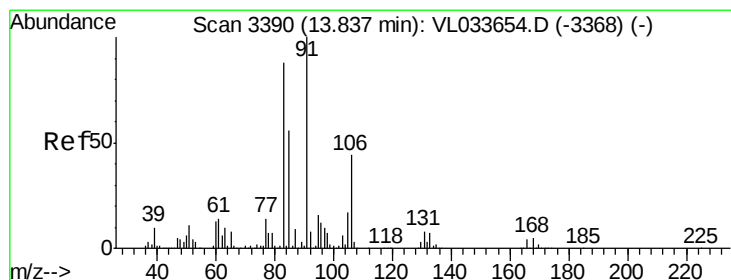
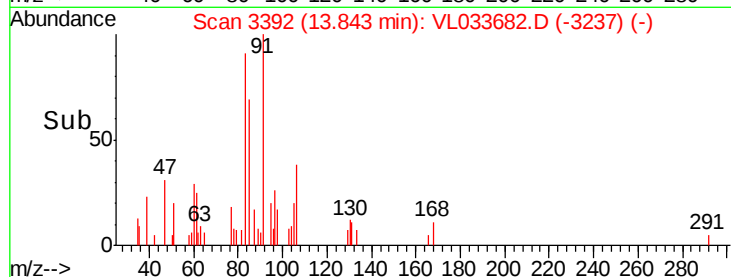
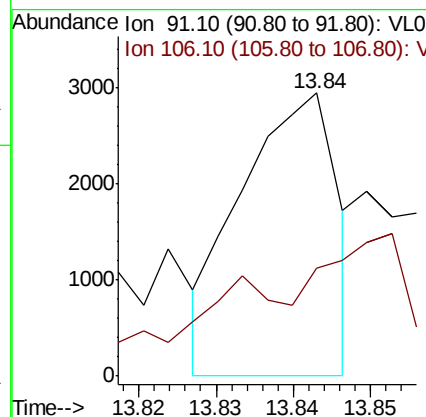
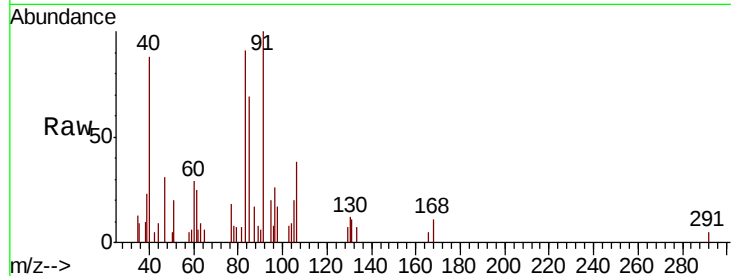
LOD-MDL-AIR-01-QT2-2019

Tgt Ion: 91 Resp: 2563

Ion Ratio Lower Upper

91 100

106 0.0 21.7 65.1#



#63

1,1,2,2-Tetrachloroethane

Concen: 0.018 ppbv

RT: 13.83 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

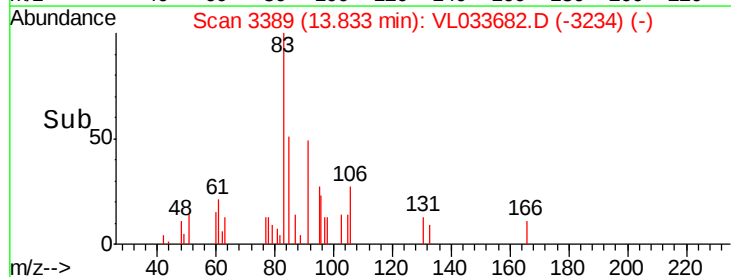
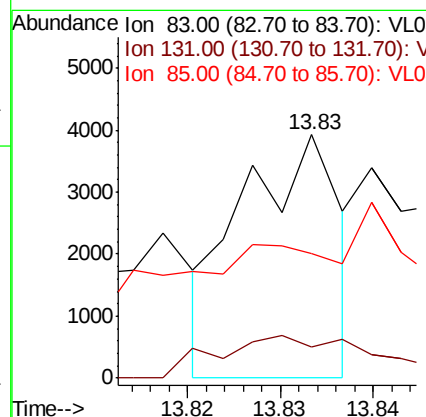
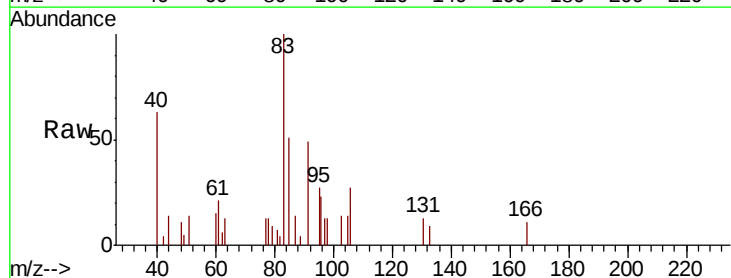
Tgt Ion: 83 Resp: 2887

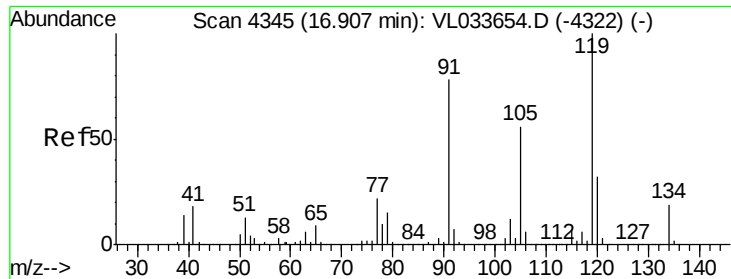
Ion Ratio Lower Upper

83 100

131 33.7 4.8 14.3#

85 0.0 32.5 97.4#

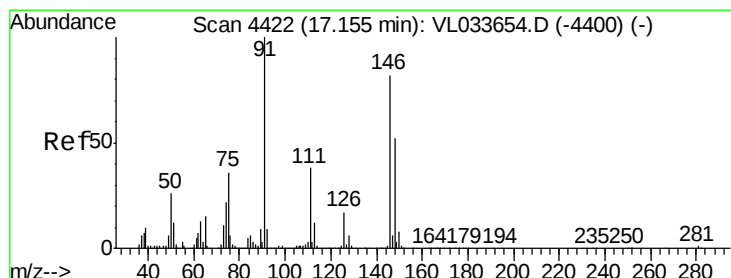
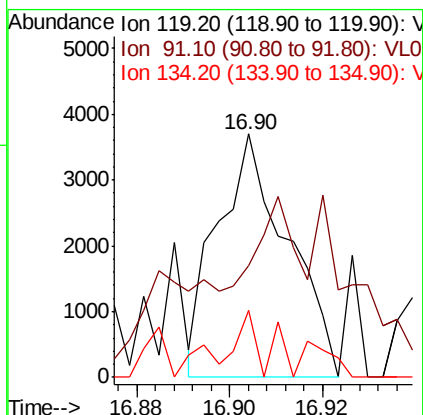
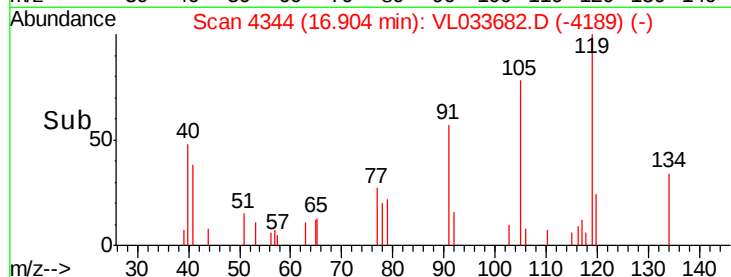
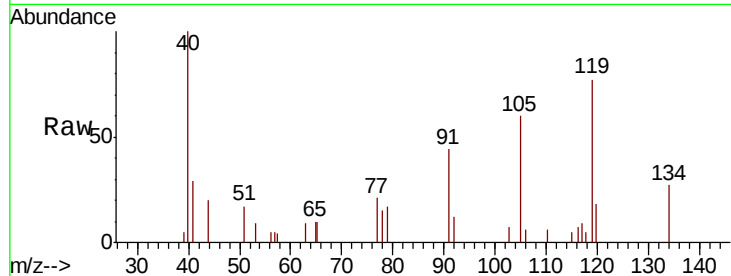




#65
tert-Butylbenzene
Concen: 0.014 ppbv
RT: 16.90 min Scan# 4344
Delta R.T. -0.00 min
Lab File: VL033682.D
Acq: 7 May 2019 14:56

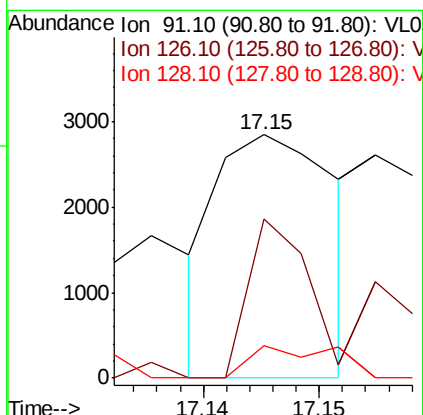
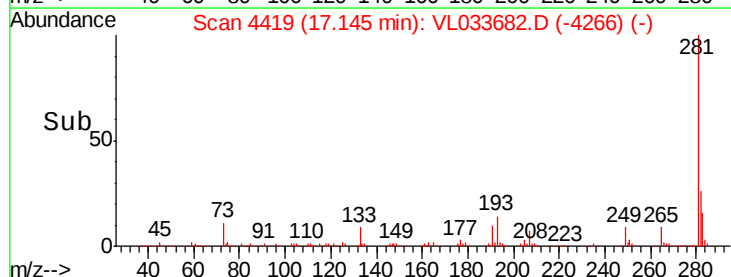
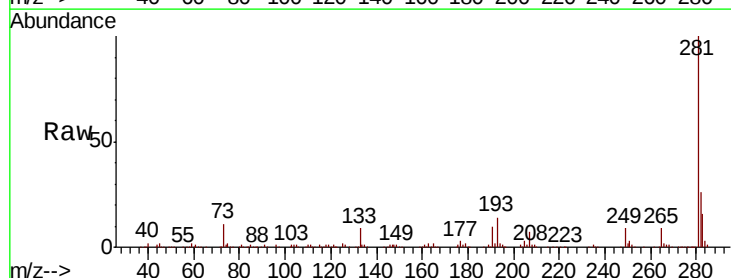
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT2-2019

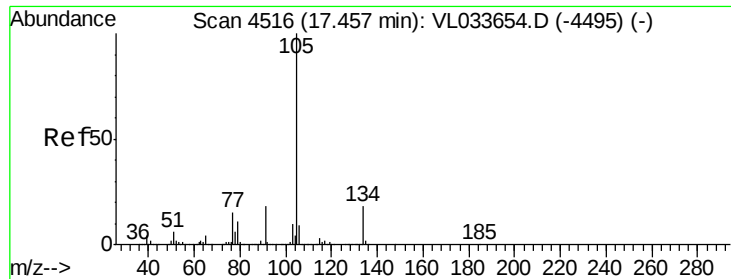
Tgt Ion: 119 Resp: 3898
Ion Ratio Lower Upper
119 100
91 0.0 65.9 98.9#
134 30.7 15.5 23.3#



#66
Benzyl Chloride
Concen: 0.016 ppbv
RT: 17.15 min Scan# 4419
Delta R.T. -0.01 min
Lab File: VL033682.D
Acq: 7 May 2019 14:56

Tgt Ion: 91 Resp: 2005
Ion Ratio Lower Upper
91 100
126 0.0 13.4 20.2#
128 0.0 4.4 6.6#





#67

sec-Butylbenzene

Concen: 0.012 ppbv

RT: 17.44 min Scan# 4512

Delta R.T. -0.01 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

Instrument :

MSVOA_L

ClientSampleId :

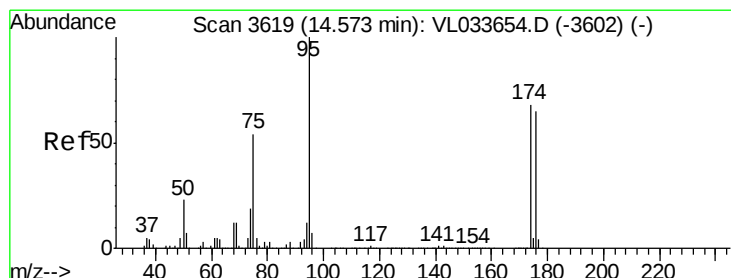
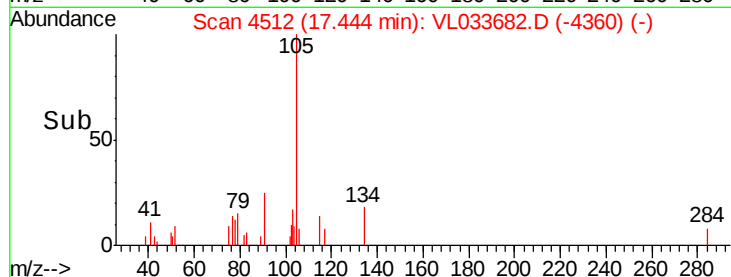
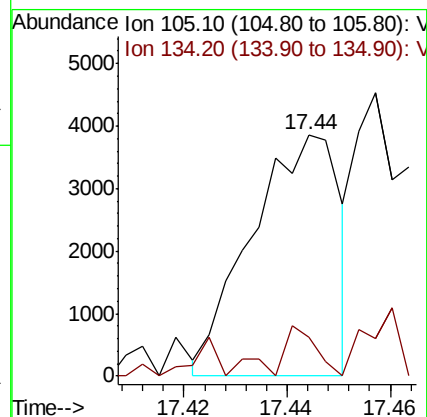
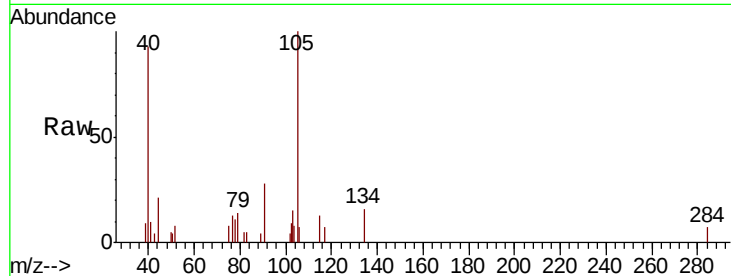
LOD-MDL-AIR-01-QT2-2019

Tgt Ion: 105 Resp: 4571

Ion Ratio Lower Upper

105 100

134 14.1 14.6 22.0#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.080 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. -0.00 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

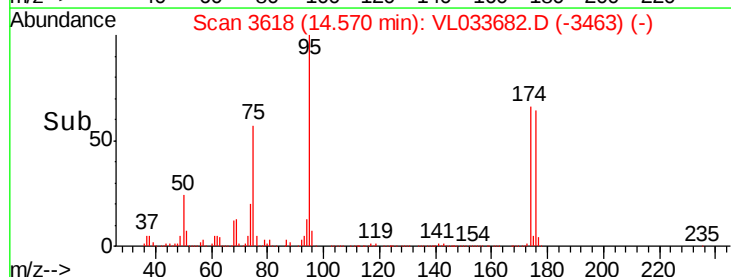
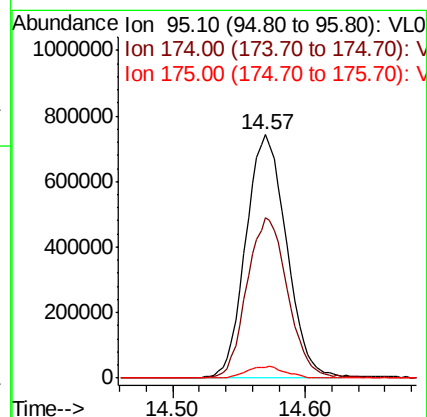
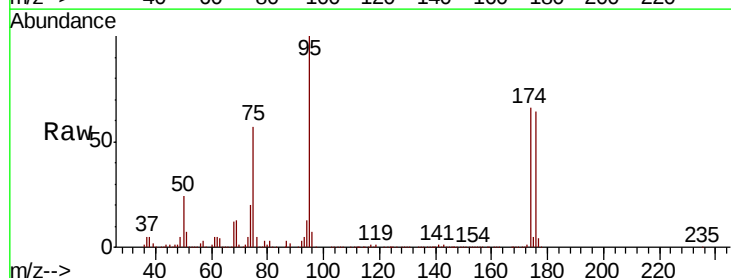
Tgt Ion: 95 Resp: 1586715

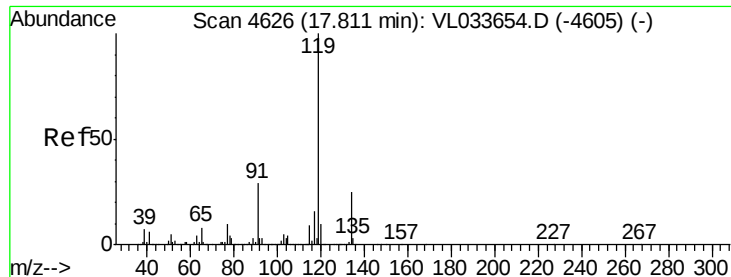
Ion Ratio Lower Upper

95 100

174 66.4 54.0 81.0

175 4.7 3.8 5.8

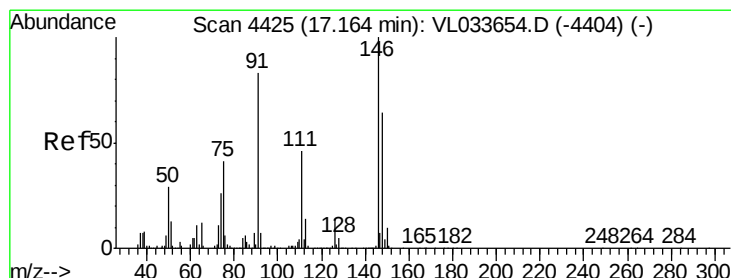
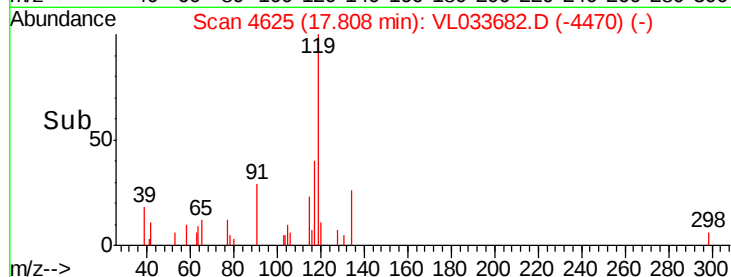
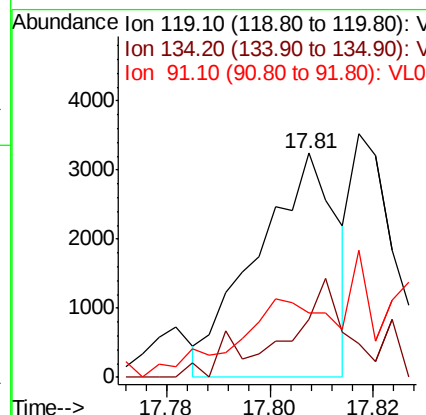
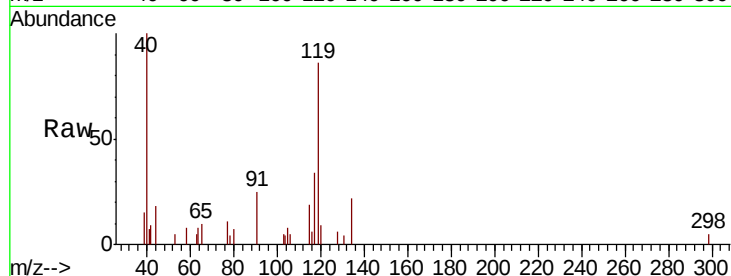




#69
p-Isopropyltoluene
Concen: 0.011 ppbv
RT: 17.81 min Scan# 4625
Delta R.T. -0.00 min
Lab File: VL033682.D
Acq: 7 May 2019 14:56

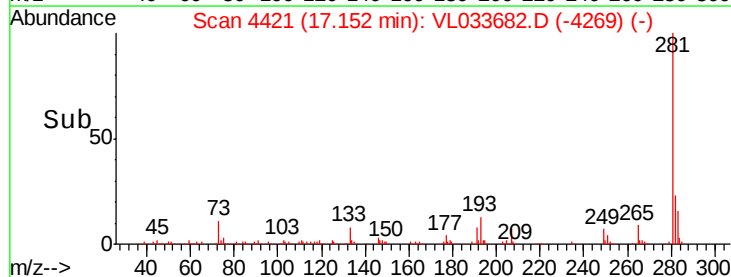
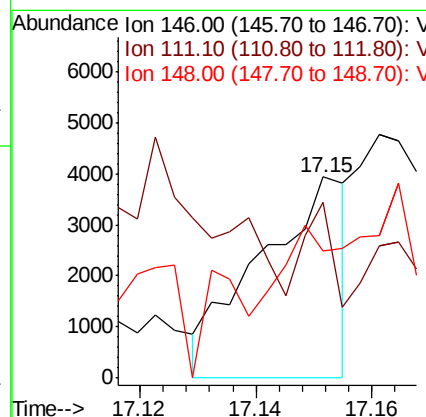
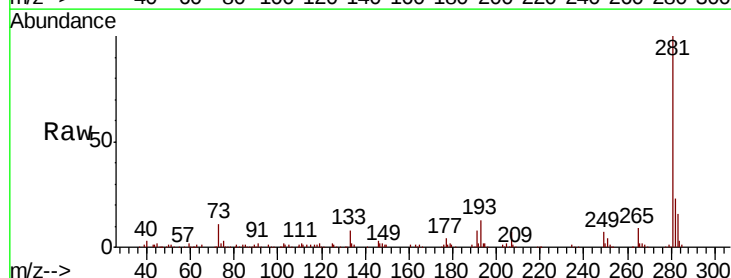
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT2-2019

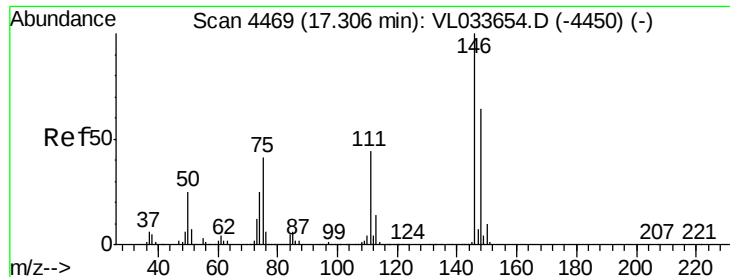
Tgt Ion:119 Resp: 3469
Ion Ratio Lower Upper
119 100
134 44.7 20.2 30.2#
91 0.0 23.4 35.2#



#75
1,3-Dichlorobenzene
Concen: 0.024 ppbv
RT: 17.15 min Scan# 4421
Delta R.T. -0.01 min
Lab File: VL033682.D
Acq: 7 May 2019 14:56

Tgt Ion:146 Resp: 4061
Ion Ratio Lower Upper
146 100
111 0.0 22.6 67.7#
148 0.0 31.8 95.4#

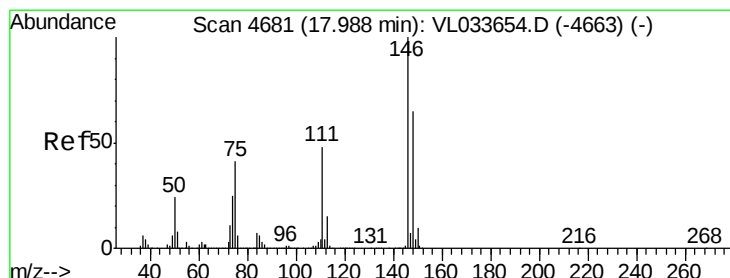
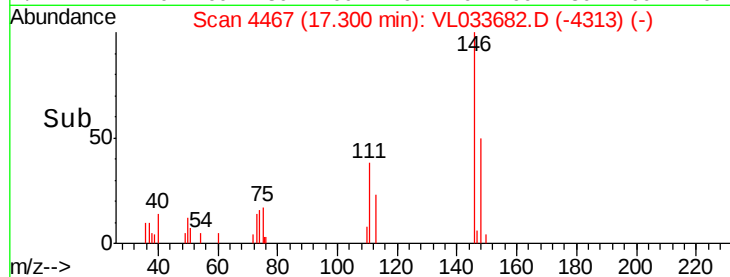
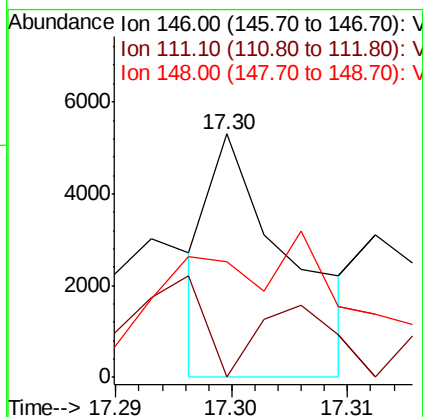
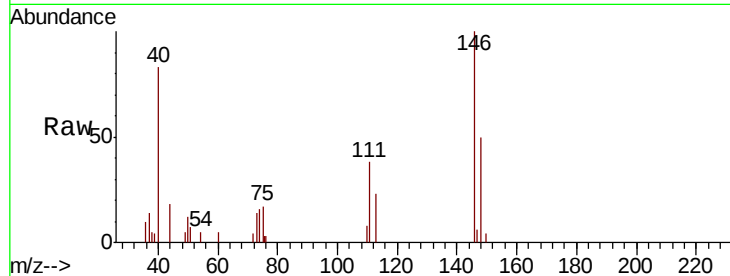




#76
 1,4-Dichlorobenzene
 Concen: 0.015 ppbv
 RT: 17.30 min Scan# 4467
 Delta R.T. -0.01 min
 Lab File: VL033682.D
 Acq: 7 May 2019 14:56

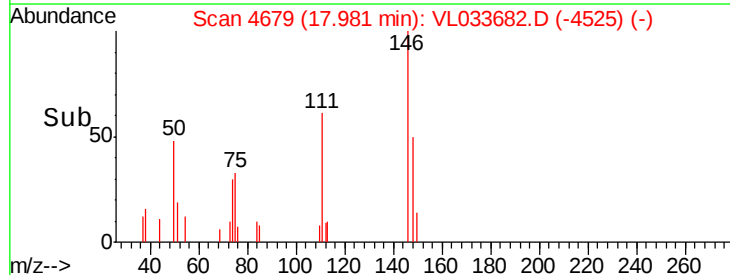
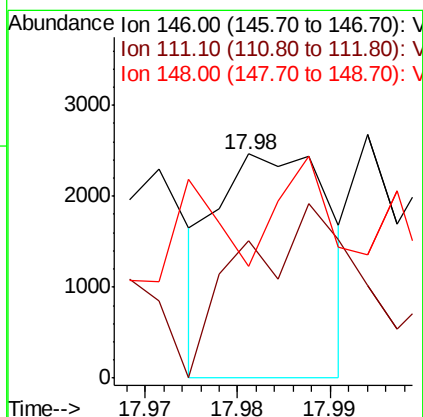
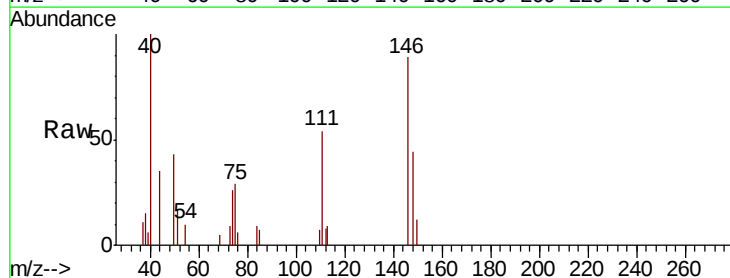
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

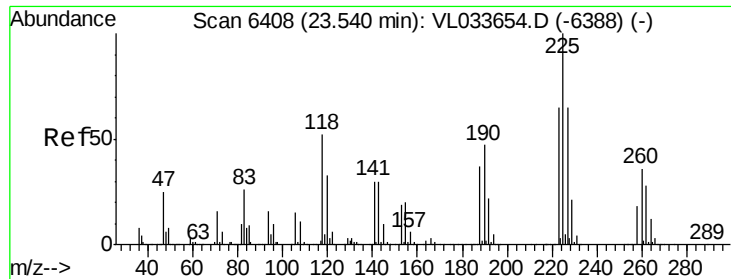
Tgt Ion:146 Resp: 2502
 Ion Ratio Lower Upper
 146 100
 111 72.5 22.0 66.0#
 148 0.0 32.1 96.5#



#77
 1,2-Dichlorobenzene
 Concen: 0.013 ppbv
 RT: 17.98 min Scan# 4679
 Delta R.T. -0.01 min
 Lab File: VL033682.D
 Acq: 7 May 2019 14:56

Tgt Ion:146 Resp: 2080
 Ion Ratio Lower Upper
 146 100
 111 0.0 23.4 70.0#
 148 0.0 31.9 95.9#





#78

Hexachloro-1,3-Butadiene

Concen: 0.033 ppbv

RT: 23.53 min Scan# 6405

Delta R.T. -0.01 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

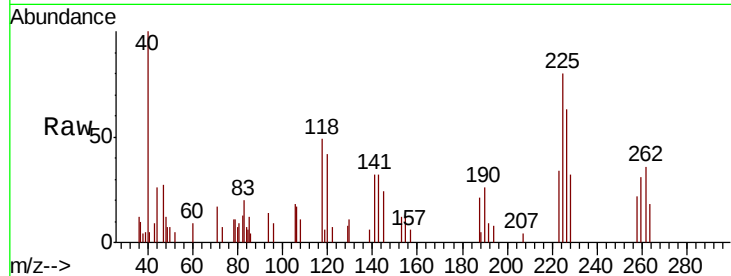
Tgt Ion:225 Resp: 4100

Ion Ratio Lower Upper

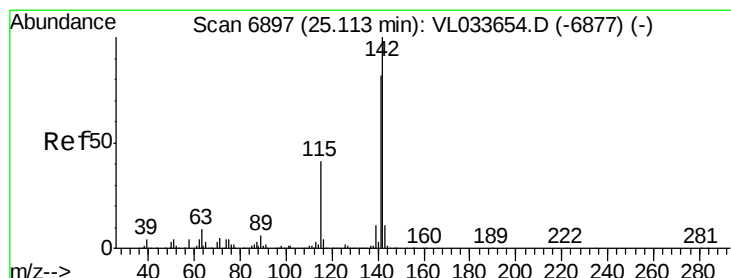
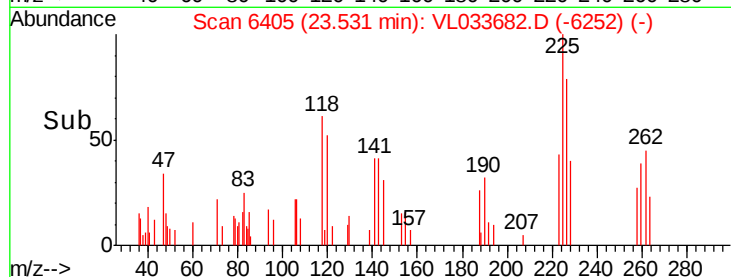
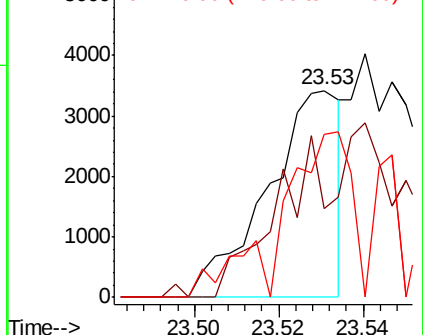
225 100

223 0.0 50.7 76.1#

227 98.1 51.4 77.2#



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



#80

Naphthalene, 2-methyl-

Concen: 0.021 ppbv

RT: 25.11 min Scan# 6896

Delta R.T. -0.00 min

Lab File: VL033682.D

Acq: 7 May 2019 14:56

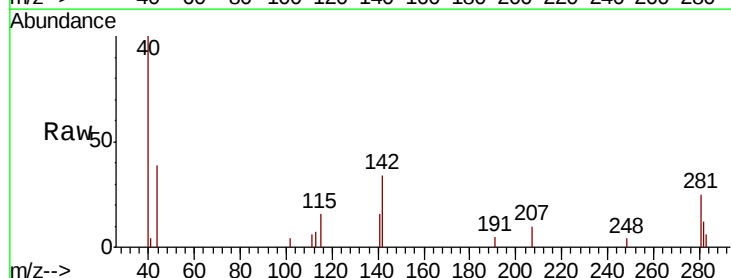
Tgt Ion:142 Resp: 2041

Ion Ratio Lower Upper

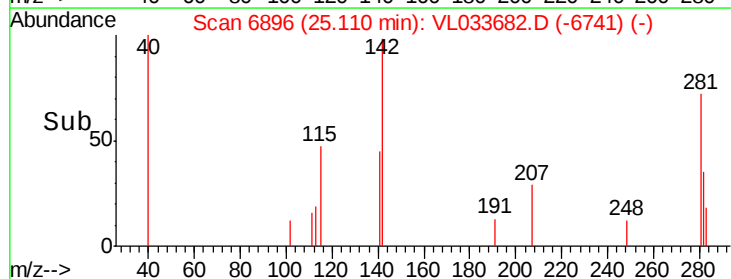
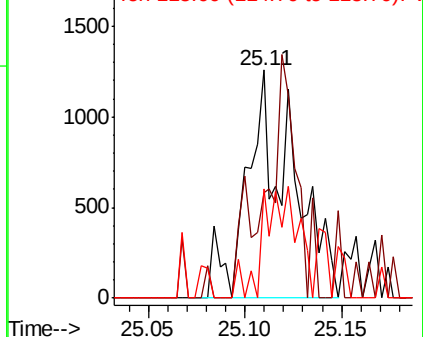
142 100

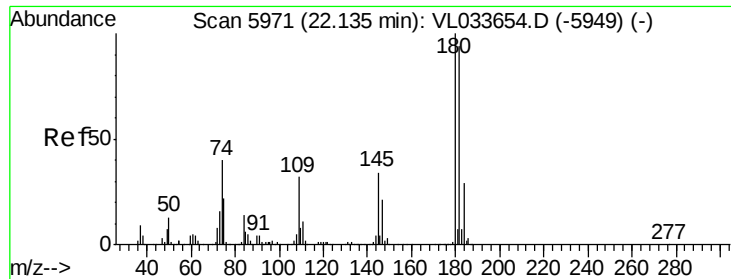
141 86.9 67.9 101.9

115 55.5 34.2 51.4#



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 0.014 ppbv
 RT: 22.13 min Scan# 5968
 Delta R.T. -0.01 min
 Lab File: VL033682.D
 Acq: 7 May 2019 14:56

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

Tgt Ion:180 Resp: 2020
 Ion Ratio Lower Upper
 180 100
 182 280.0 77.4 116.0#
 184 25.5 24.6 36.8

