

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050719\
 Data File : VL033680.D
 Acq On : 7 May 2019 13:39
 Operator : SY/AP
 Sample : K2241-13 0.4PPB
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

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

Quant Time: May 08 03:28:58 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	5.76	49	965226	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2297838	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2271705	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1846239	9.91	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	112294	0.496	ppbv	98
3) Chlorodifluoromethane	3.01	51	62561m	0.449	ppbv	
4) Chloromethane	3.17	50	32969	0.455	ppbv #	83
5) Vinyl Chloride	3.29	62	30942	0.439	ppbv	93
6) Bromomethane	3.51	94	19865	0.444	ppbv	98
7) Chloroethane	3.60	64	11891m	0.465	ppbv	
8) Dichlorotetrafluoroethane	3.22	85	84775	0.455	ppbv	99
9) Propene	3.04	41	23932	0.450	ppbv	93
10) Heptane	8.24	43	48189	0.367	ppbv	97
11) Trichlorofluoromethane	4.00	101	98262	0.465	ppbv	90
12) 1,1,2-Trichlorotrifluoroet	4.55	101	64397	0.453	ppbv	99
13) Ethanol	3.65	45	9593m	0.601	ppbv	
14) Bromoethene	3.79	108	24224	0.432	ppbv #	94
15) Acetone	3.91	43	71426	0.497	ppbv	97
16) 1,3-Butadiene	3.36	39	26963	0.438	ppbv	99
17) tert-Butyl alcohol	4.37	59	56036m	0.514	ppbv	
18) 1,1-Dichloroethene	4.35	96	25786	0.420	ppbv	88
19) Isopropyl Alcohol	4.04	45	42981	0.487	ppbv #	93
20) Methylene Chloride	4.41	84	26366	0.484	ppbv	87
21) Allyl Chloride	4.48	41	37939	0.436	ppbv	97
22) trans-1,2-Dichloroethene	4.96	96	28634	0.465	ppbv	87
23) Vinyl Acetate	5.15	43	80179	0.430	ppbv #	95
24) 1,1-Dichloroethane	5.08	63	65444	0.464	ppbv	97
25) Ethyl Acetate	5.77	43	105850	0.453	ppbv	99
26) Hexane	5.78	57	42501	0.423	ppbv	84
27) Carbon Disulfide	4.62	76	55214m	0.402	ppbv	
28) Methyl tert-Butyl Ether	5.12	73	71802	0.425	ppbv	98
29) Chloroform	5.84	83	84974	0.471	ppbv	94
30) Cyclohexane	7.25	84	30952m	0.367	ppbv	
31) cis-1,2-Dichloroethene	5.64	61	41863	0.419	ppbv	90
32) 1,1,1-Trichloroethane	6.62	97	78739	0.422	ppbv	96
34) 2-Butanone	5.34	43	63026	0.428	ppbv	98
35) Carbon Tetrachloride	7.13	117	82605	0.437	ppbv	89
36) Benzene	7.00	78	81096	0.394	ppbv	94
37) 1,2-Dichloroethane	6.40	62	61444	0.427	ppbv	100
38) Trichloroethene	7.95	130	31067	0.411	ppbv	96
39) 1,2-Dichloropropane	7.73	63	34552	0.450	ppbv	95
40) 1,4-Dioxane	7.99	88	13988m	0.456	ppbv	
41) Tetrahydrofuran	6.17	42	28703	0.377	ppbv	97
42) Bromodichloromethane	7.91	83	78272	0.422	ppbv #	95
43) Methyl Methacrylate	8.14	69	26158	0.338	ppbv	94

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050719\
 Data File : VL033680.D
 Acq On : 7 May 2019 13:39
 Operator : SY/AP
 Sample : K2241-13 0.4PPB
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

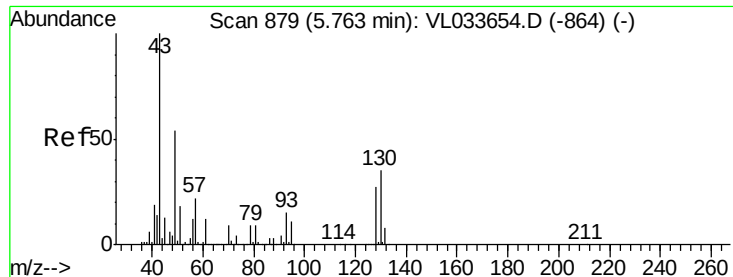
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

Quant Time: May 08 03:28:58 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)

44) 2,2,4-Trimethylpentane	7.99	57	136752	0.388	ppbv	92
45) t-1,3-Dichloropropene	9.41	75	29436	0.309	ppbv #	87
46) cis-1,3-Dichloropropene	8.83	75	37619	0.317	ppbv	88
47) 1,1,2-Trichloroethane	9.61	97	38896	0.441	ppbv	95
48) Dibromochloromethane	10.44	129	58056m	0.388	ppbv	
49) Bromoform	13.20	173	47439m	0.365	ppbv	
50) 4-Methyl-2-Pentanone	8.89	43	84022	0.377	ppbv	94
51) 2-Hexanone	10.29	43	58379m	0.338	ppbv	
52) Tetrachloroethene	11.36	164	30576m	0.419	ppbv	
53) Toluene	9.94	91	75370	0.339	ppbv	98
54) 1,2-Dibromoethane	10.75	107	54498	0.410	ppbv	90
56) 1,1,1,2-Tetrachloroethane	12.27	131	47070m	0.449	ppbv	
57) Chlorobenzene	12.29	112	87449m	0.469	ppbv	
58) Ethyl Benzene	12.86	91	100450	0.339	ppbv	92
59) m/p-Xylene	13.14	91	191804m	0.735	ppbv	
60) o-Xylene	13.84	91	99152	0.375	ppbv	100
61) Styrene	13.68	104	53243m	0.303	ppbv	
62) Isopropylbenzene	14.82	105	133574	0.370	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	84460	0.439	ppbv	96
64) n-propylbenzene	15.71	120	31674	0.340	ppbv	75
65) tert-Butylbenzene	16.90	119	115642	0.350	ppbv	90
66) Benzyl Chloride	17.15	91	53759m	0.357	ppbv	
67) sec-Butylbenzene	17.45	105	175444m	0.380	ppbv	
69) p-Isopropyltoluene	17.81	119	130129	0.342	ppbv	96
70) n-Butylbenzene	18.71	91	147964	0.367	ppbv	96
71) 2-Chlorotoluene	15.61	91	92306	0.347	ppbv	99
72) 4-Ethyltoluene	16.00	105	103553	0.334	ppbv #	97
73) 1,3,5-Trimethylbenzene	16.15	105	105070	0.350	ppbv	98
74) 1,2,4-Trimethylbenzene	16.92	105	130278m	0.391	ppbv	
75) 1,3-Dichlorobenzene	17.15	146	96941m	0.481	ppbv	
76) 1,4-Dichlorobenzene	17.30	146	78894m	0.413	ppbv	
77) 1,2-Dichlorobenzene	17.98	146	76604	0.410	ppbv	97
78) Hexachloro-1,3-Butadiene	23.54	225	71730m	0.485	ppbv	
79) Naphthalene	22.41	128	99803	0.328	ppbv	98
80) Naphthalene, 2-methyl-	25.11	142	26434	0.230	ppbv	93
81) 1,2,4-Trichlorobenzene	22.13	180	69686m	0.394	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

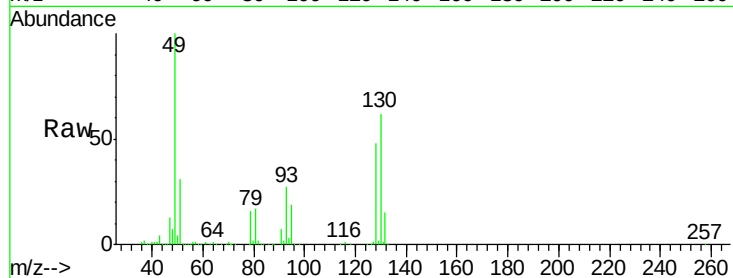
Tot Ion: 49 Resp: 965226

Ion Ratio Lower Upper

49 100

128 49.1 24.8 74.3

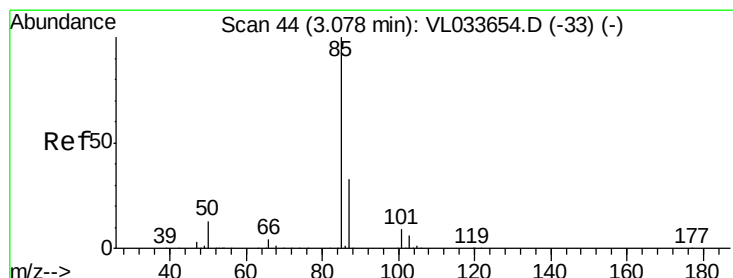
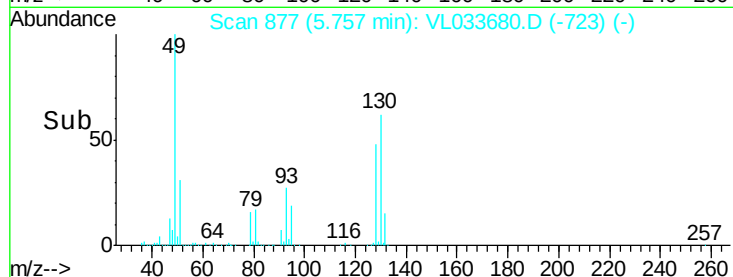
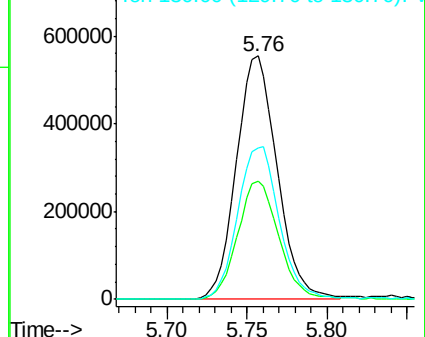
130 64.9 32.1 96.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.496 ppbv

RT: 3.07 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033680.D

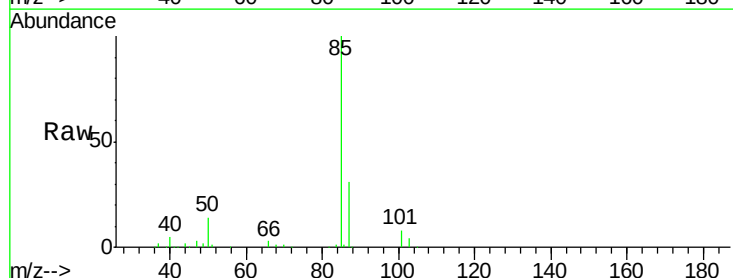
Acq: 7 May 2019 13:39

Tgt Ion: 85 Resp: 112294

Ion Ratio Lower Upper

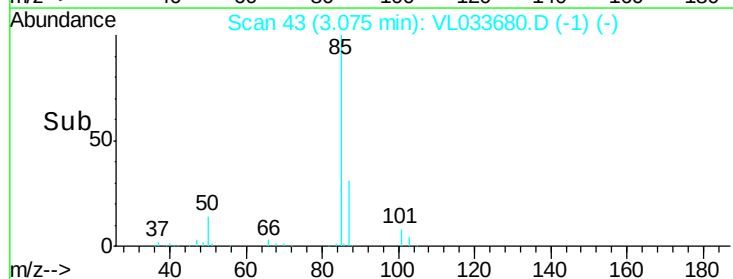
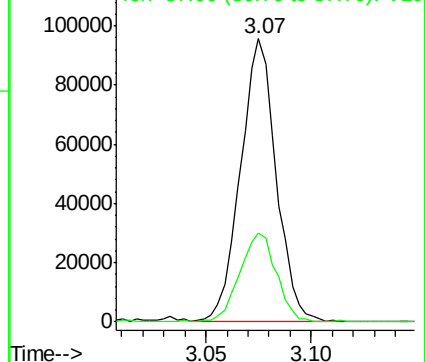
85 100

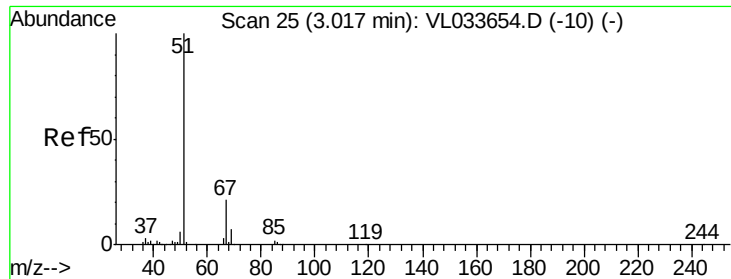
87 31.3 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.449 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.01 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Instrument :

MSVOA_L

ClientSampleId :

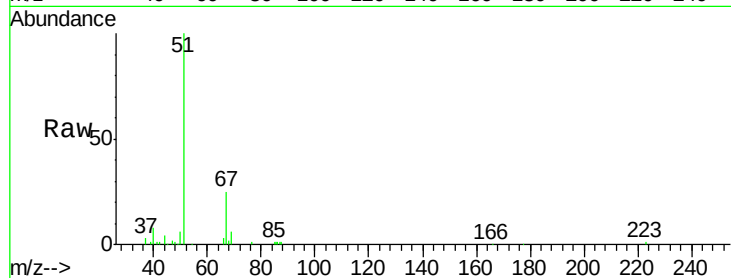
LOD-MDL-AIR-01-QT2-2019

Tot Ion: 51 Resp: 62561

Ion Ratio Lower Upper

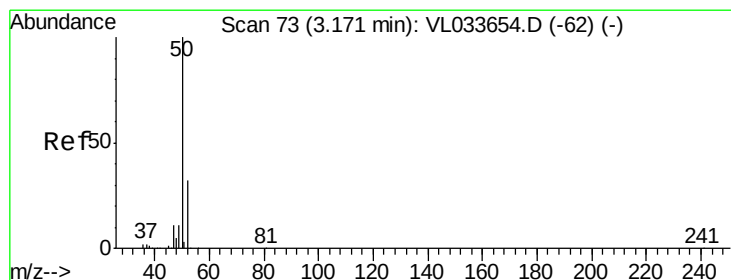
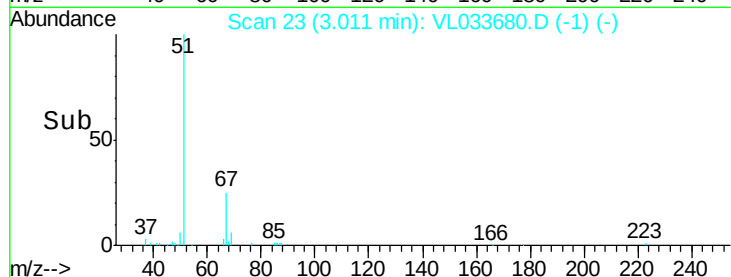
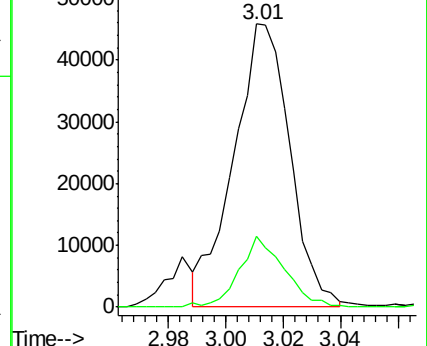
51 100

67 20.0 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: 0.455 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033680.D

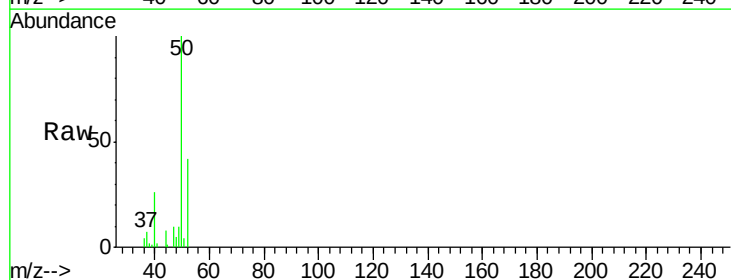
Acq: 7 May 2019 13:39

Tgt Ion: 50 Resp: 32969

Ion Ratio Lower Upper

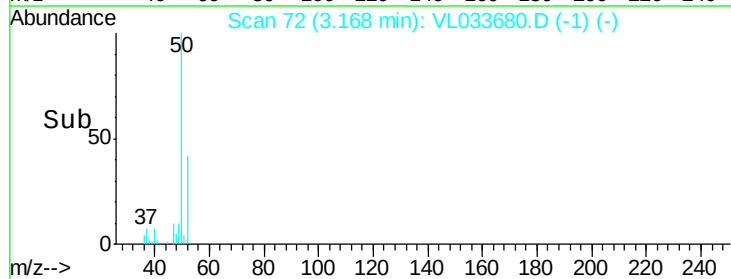
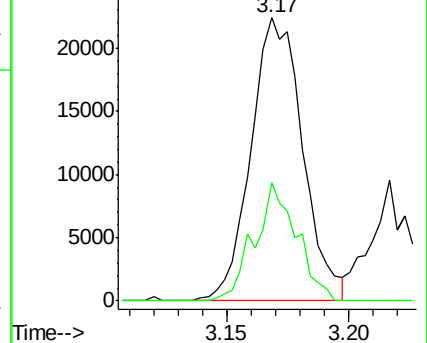
50 100

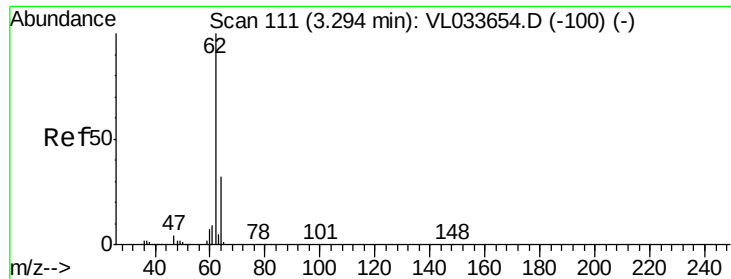
52 41.6 25.8 38.8#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.439 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Instrument :

MSVOA_L

ClientSampleId :

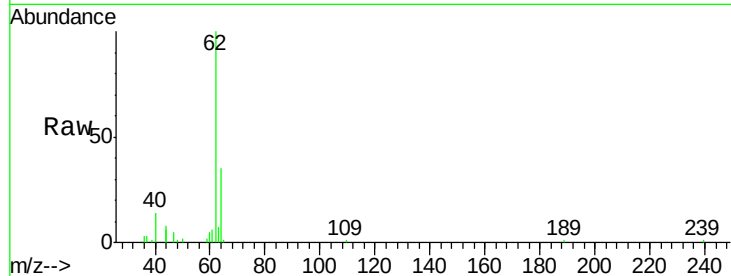
LOD-MDL-AIR-01-QT2-2019

Tot Ion: 62 Resp: 30942

Ion Ratio Lower Upper

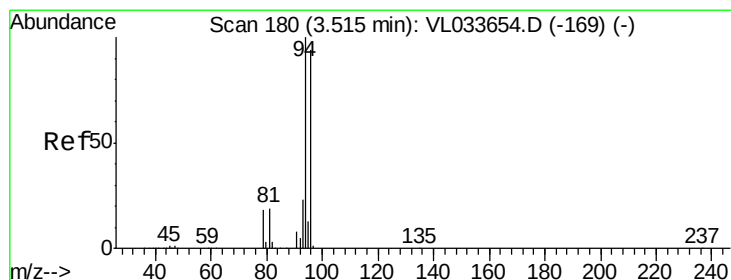
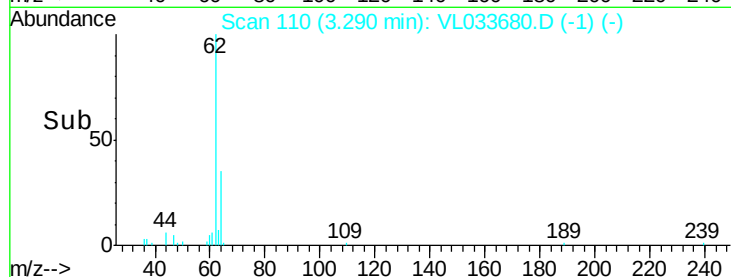
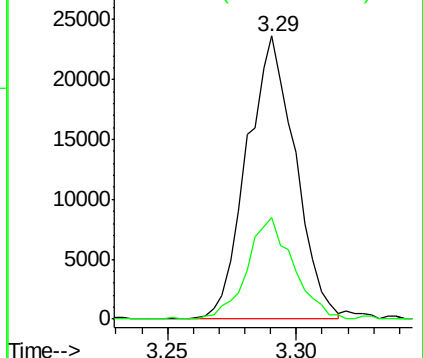
62 100

64 35.7 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: 0.444 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033680.D

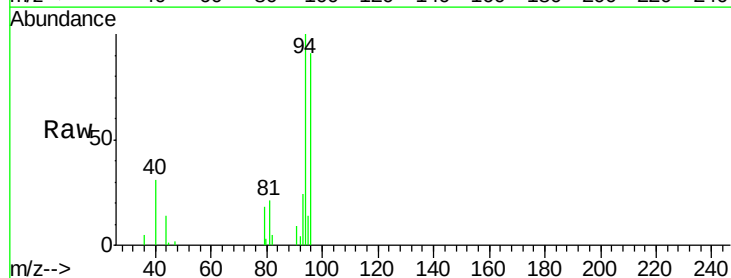
Acq: 7 May 2019 13:39

Tgt Ion: 94 Resp: 19865

Ion Ratio Lower Upper

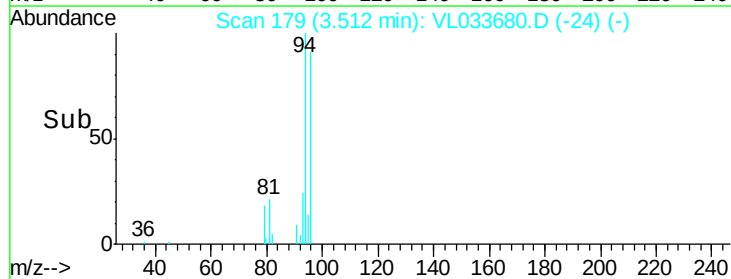
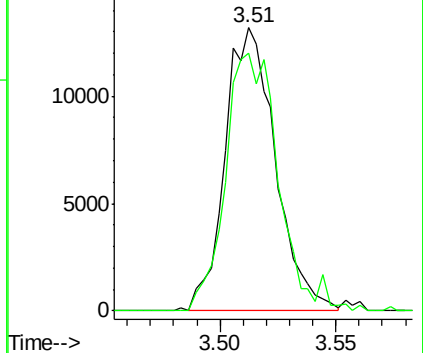
94 100

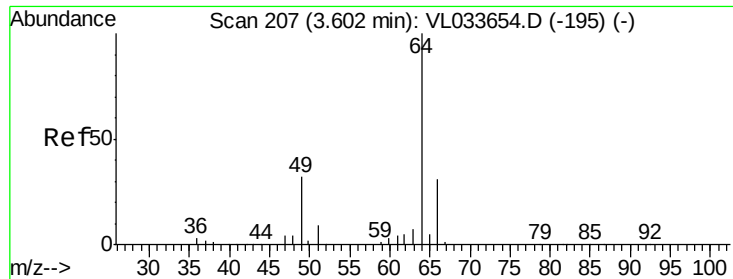
96 92.3 75.2 112.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.465 ppbv m

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Instrument :

MSVOA_L

ClientSampleId :

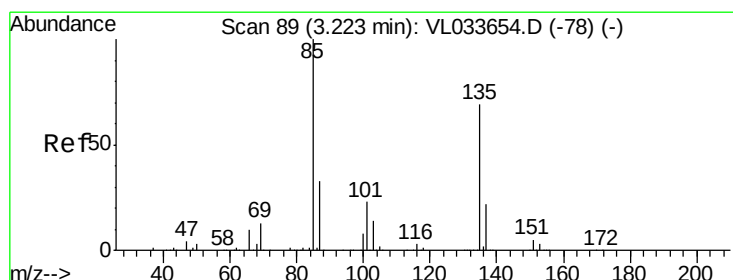
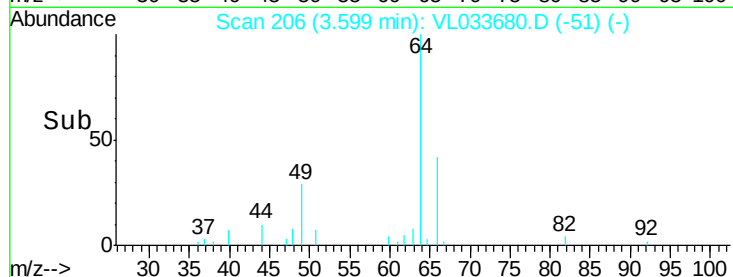
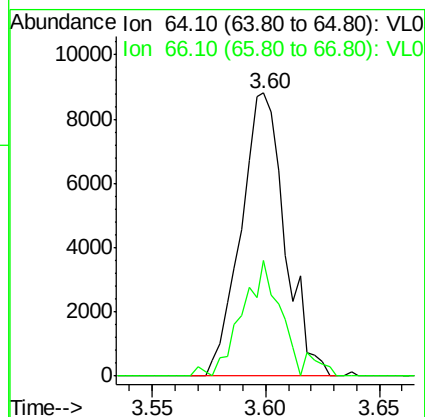
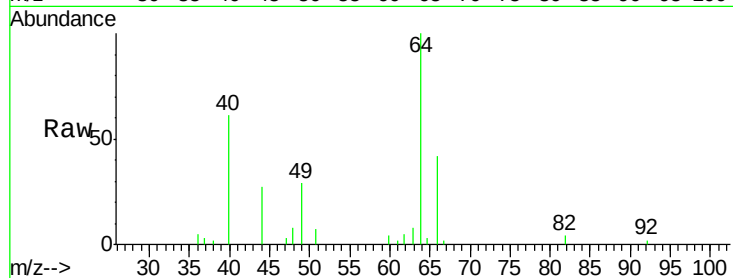
LOD-MDL-AIR-01-QT2-2019

Tot Ion: 64 Resp: 11891

Ion Ratio Lower Upper

64 100

66 41.9 25.1 37.7#



#8

Dichlorotetrafluoroethane

Concen: 0.455 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033680.D

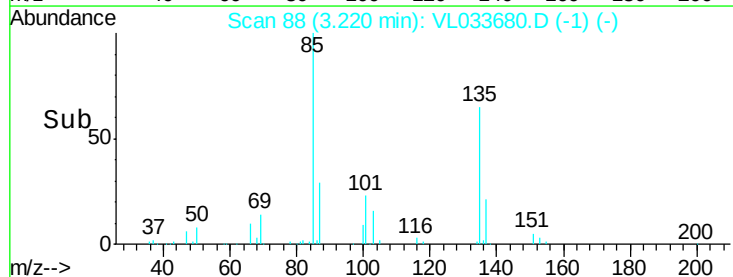
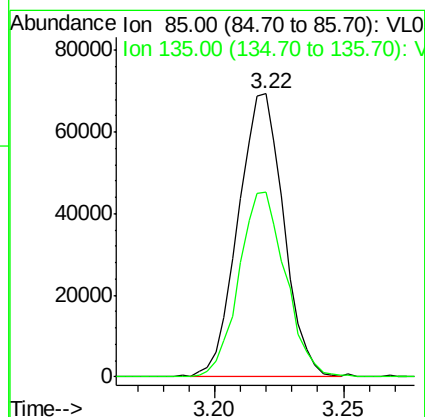
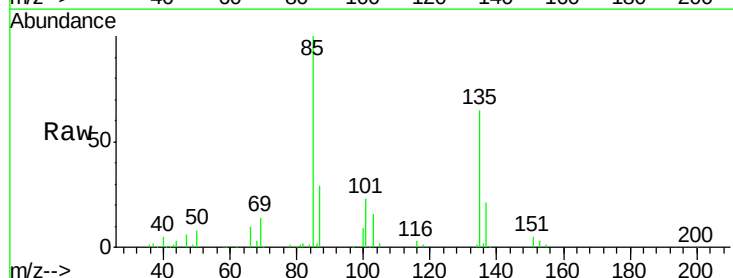
Acq: 7 May 2019 13:39

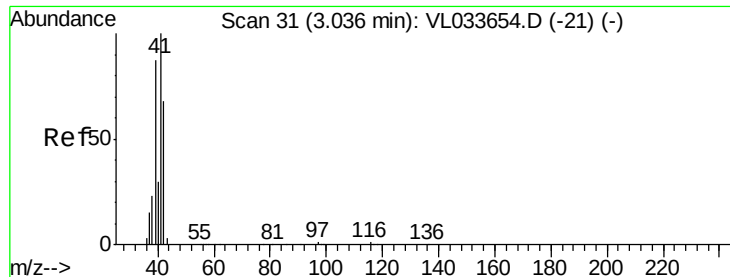
Tgt Ion: 85 Resp: 84775

Ion Ratio Lower Upper

85 100

135 67.5 54.3 81.5





#9

Propene

Concen: 0.450 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Instrument :

MSVOA_L

ClientSampleId :

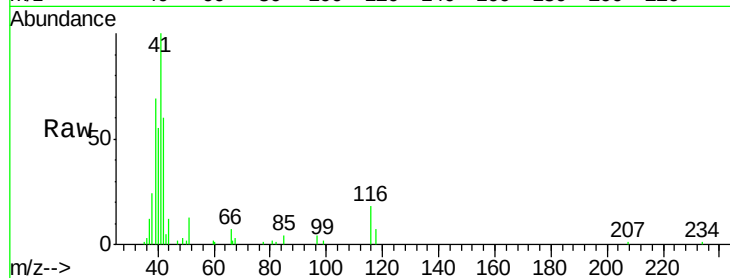
LOD-MDL-AIR-01-QT2-2019

Tot Ion: 41 Resp: 23932

Ion Ratio Lower Upper

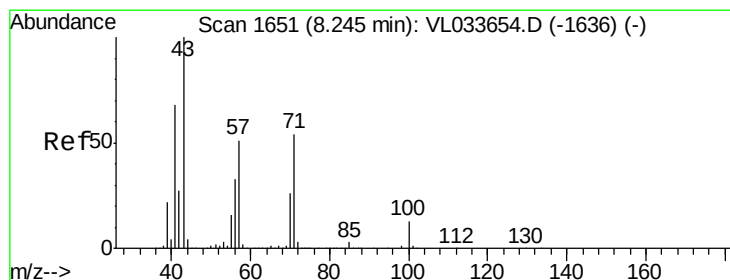
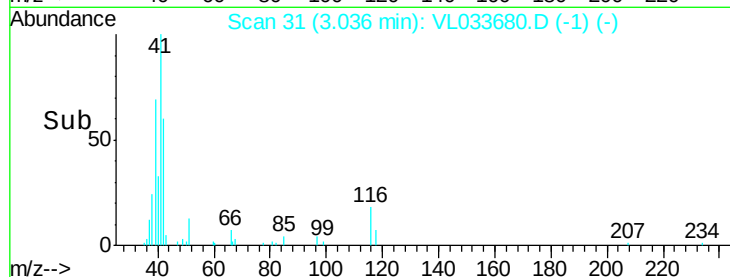
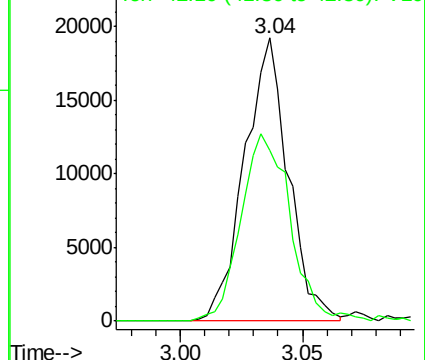
41 100

42 75.4 55.6 83.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.367 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VL033680.D

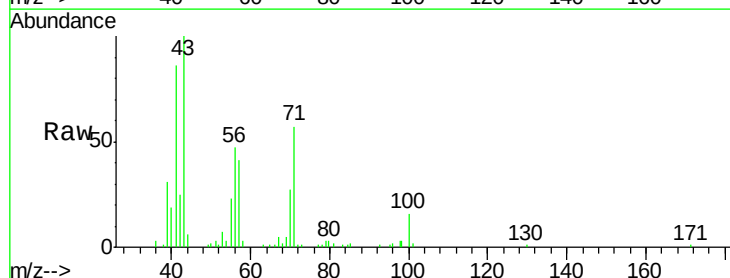
Acq: 7 May 2019 13:39

Tgt Ion: 43 Resp: 48189

Ion Ratio Lower Upper

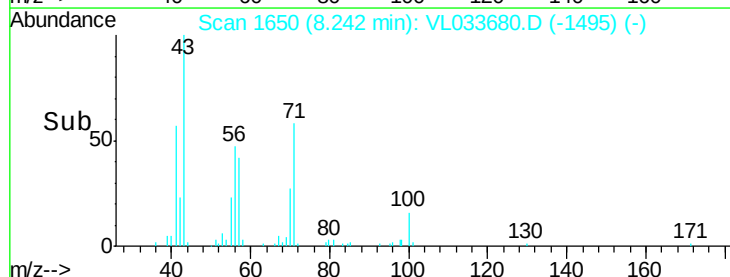
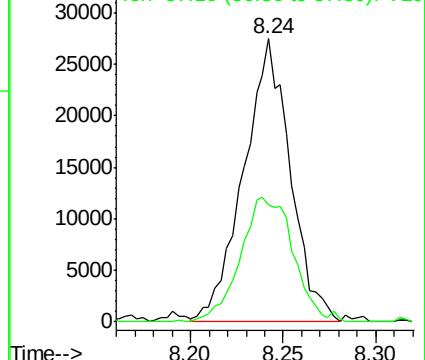
43 100

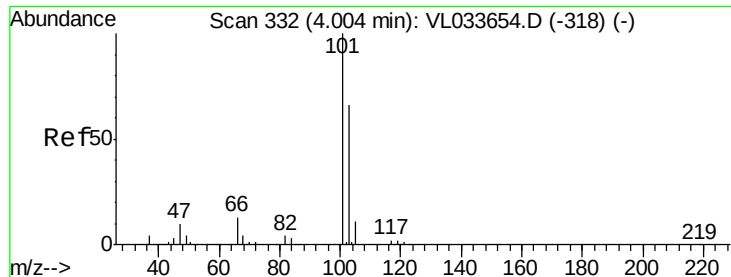
57 49.9 41.8 62.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

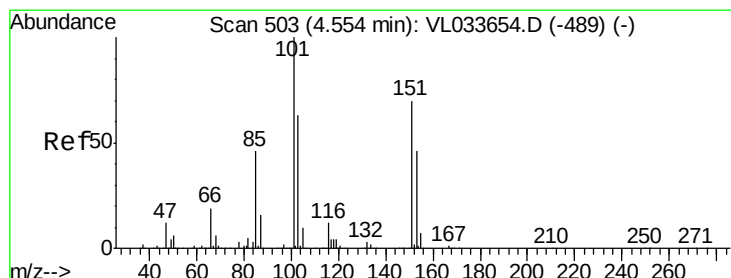
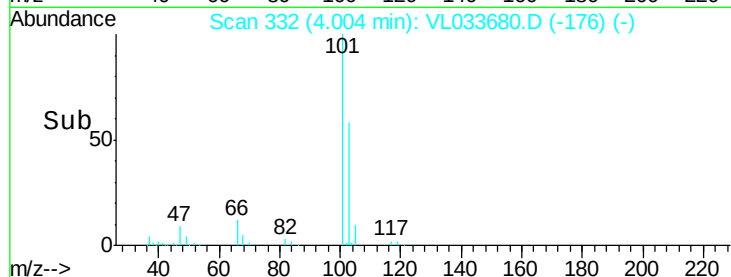
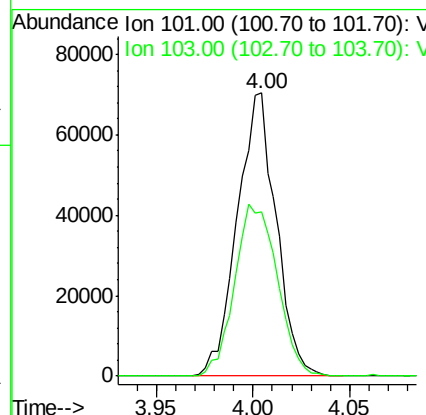
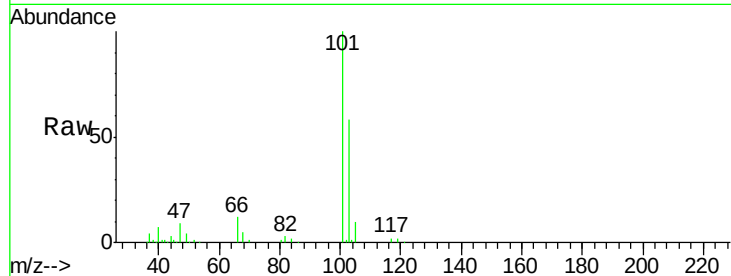




#11
 Trichlorofluoromethane
 Concen: 0.465 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. 0.00 min
 Lab File: VL033680.D
 Acq: 7 May 2019 13:39

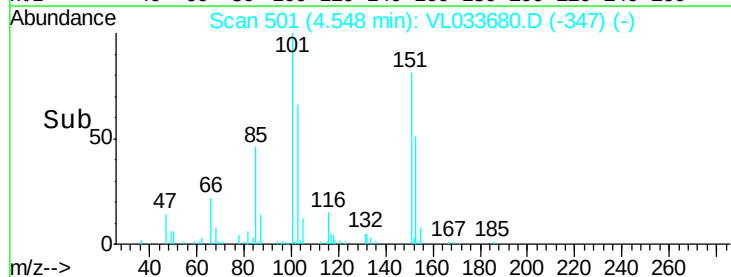
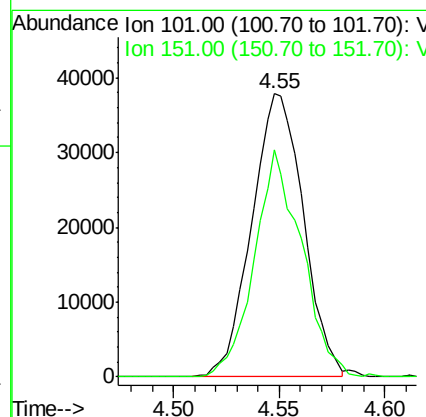
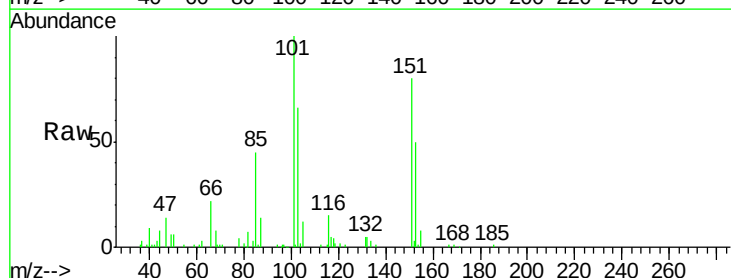
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

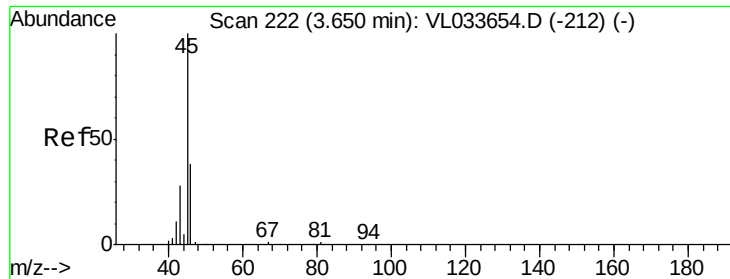
Tot Ion:101 Resp: 98262
 Ion Ratio Lower Upper
 101 100
 103 57.7 52.7 79.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.453 ppbv
 RT: 4.55 min Scan# 501
 Delta R.T. -0.01 min
 Lab File: VL033680.D
 Acq: 7 May 2019 13:39

Tgt Ion:101 Resp: 64397
 Ion Ratio Lower Upper
 101 100
 151 73.5 58.0 87.0

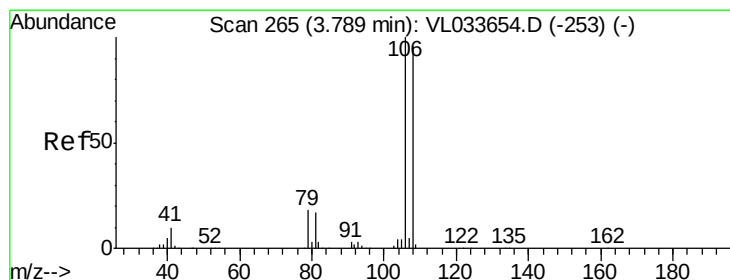
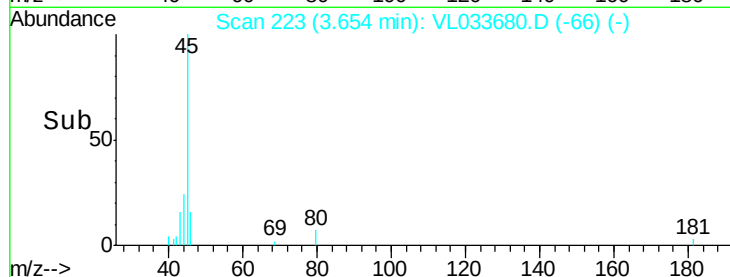
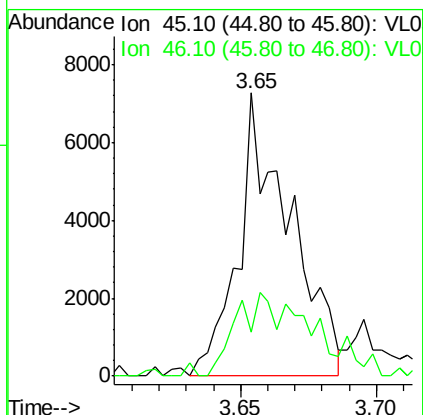
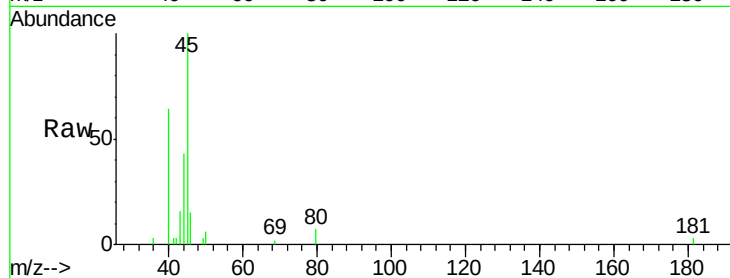




#13
Ethanol
Concen: 0.601 ppbv m
RT: 3.65 min Scan# 223
Delta R.T. 0.00 min
Lab File: VL033680.D
Acq: 7 May 2019 13:39

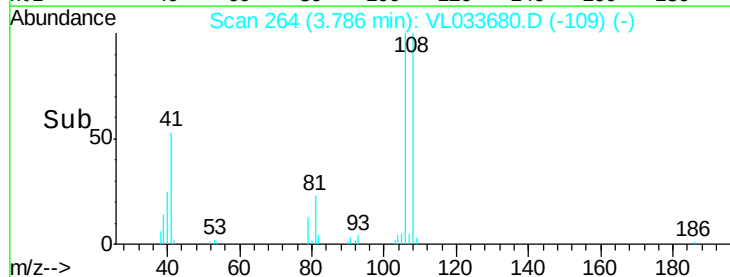
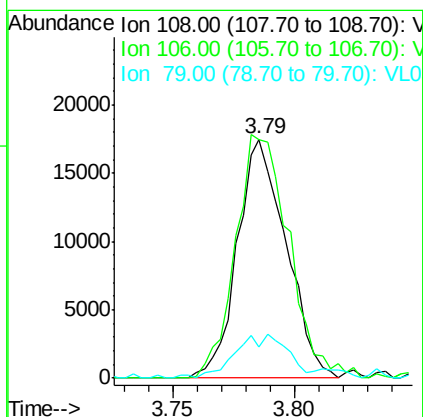
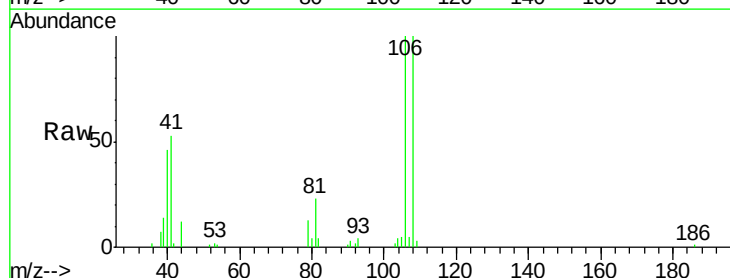
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT2-2019

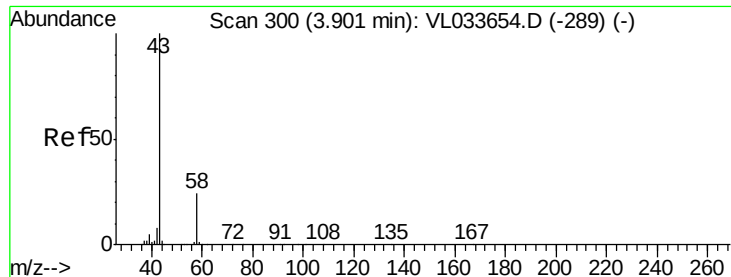
Tot Ion: 45 Resp: 9593
Ion Ratio Lower Upper
45 100
46 46.3 14.9 59.7



#14
Bromoethene
Concen: 0.432 ppbv
RT: 3.79 min Scan# 264
Delta R.T. -0.00 min
Lab File: VL033680.D
Acq: 7 May 2019 13:39

Tgt Ion: 108 Resp: 24224
Ion Ratio Lower Upper
108 100
106 112.8 85.7 128.5
79 23.3 15.2 22.8#





#15

Acetone

Concen: 0.497 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.01 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Instrument :

MSVOA_L

ClientSampleId :

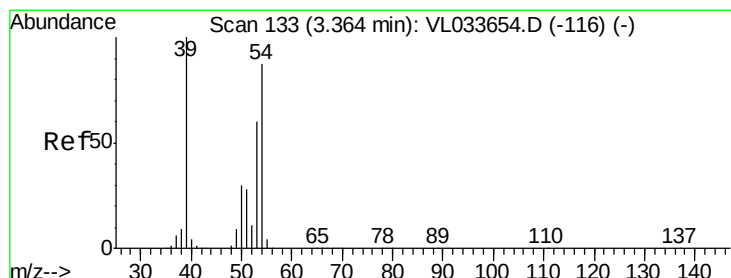
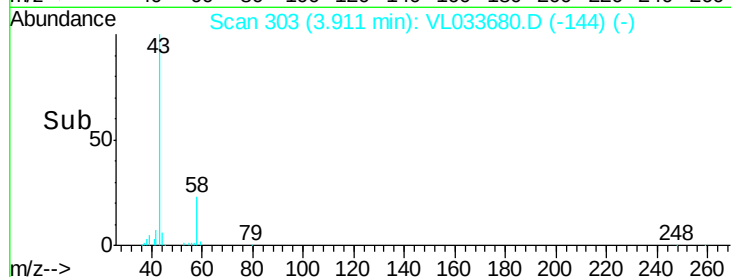
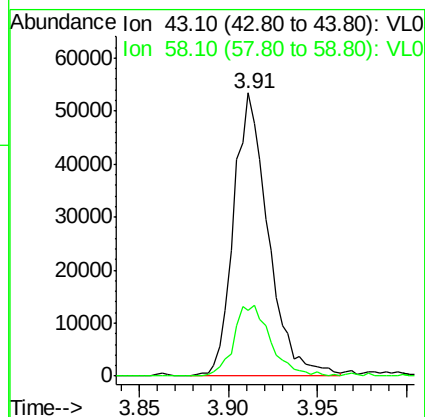
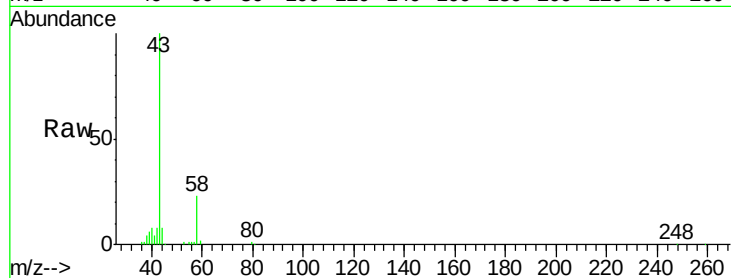
LOD-MDL-AIR-01-QT2-2019

Tot Ion: 43 Resp: 71426

Ion Ratio Lower Upper

43 100

58 27.7 20.9 31.3



#16

1,3-Butadiene

Concen: 0.438 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033680.D

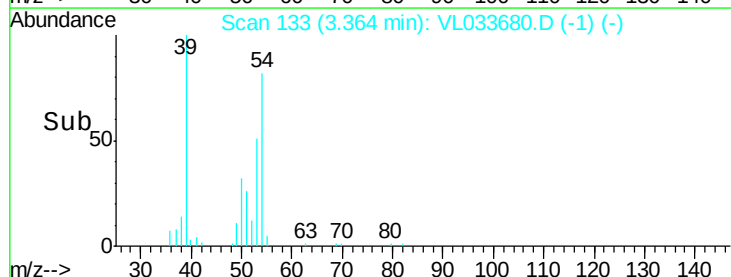
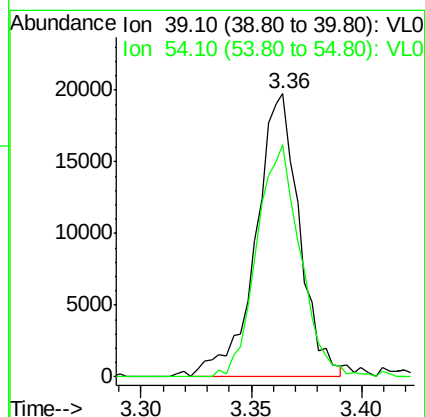
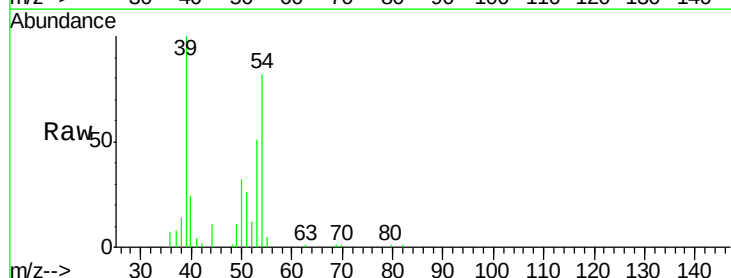
Acq: 7 May 2019 13:39

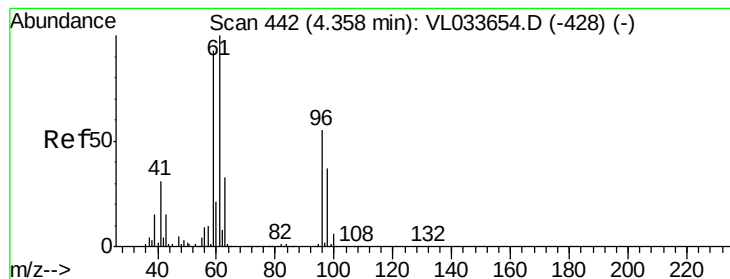
Tgt Ion: 39 Resp: 26963

Ion Ratio Lower Upper

39 100

54 82.6 67.0 100.4





#17

tert-Butyl alcohol

Concen: 0.514 ppbv

RT: 4.37 min Scan# 446

Delta R.T. 0.01 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Instrument :

MSVOA_L

ClientSampleId :

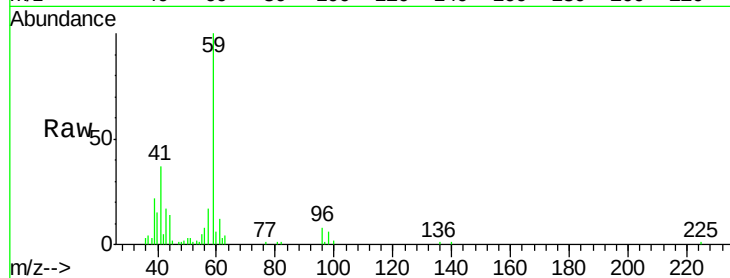
LOD-MDL-AIR-01-QT2-2019

Tot Ion: 59 Resp: 56036

Ion Ratio Lower Upper

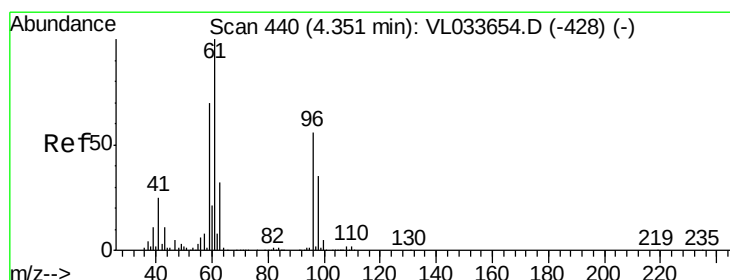
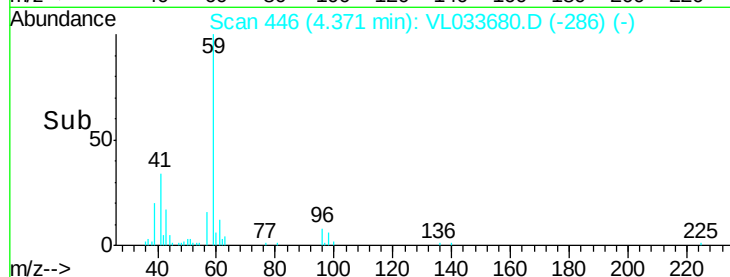
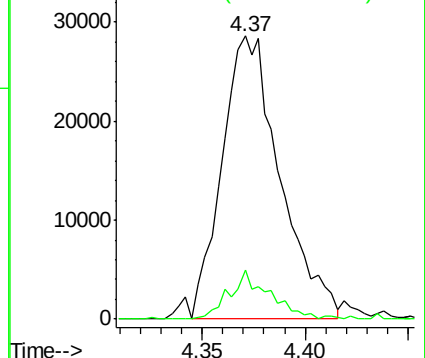
59 100

57 0.0 8.4 12.6#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 0.420 ppbv

RT: 4.35 min Scan# 439

Delta R.T. -0.00 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

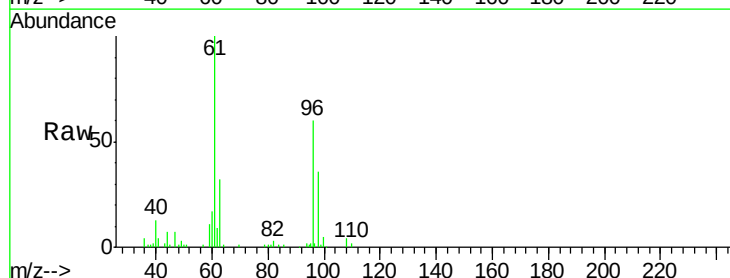
Tgt Ion: 96 Resp: 25786

Ion Ratio Lower Upper

96 100

61 159.7 143.4 215.0

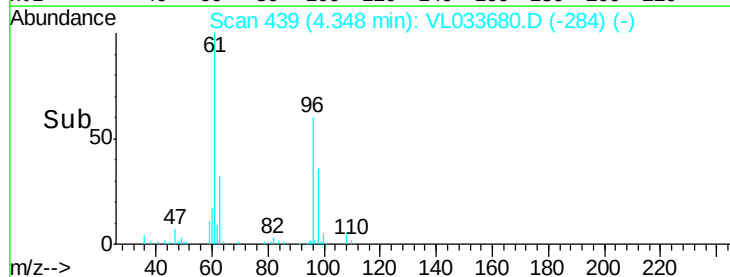
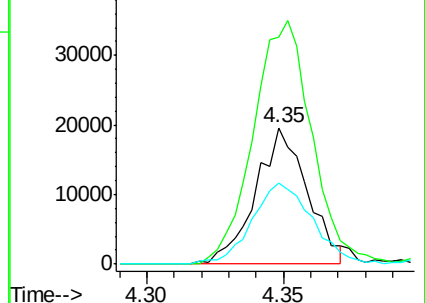
98 57.7 50.4 75.6

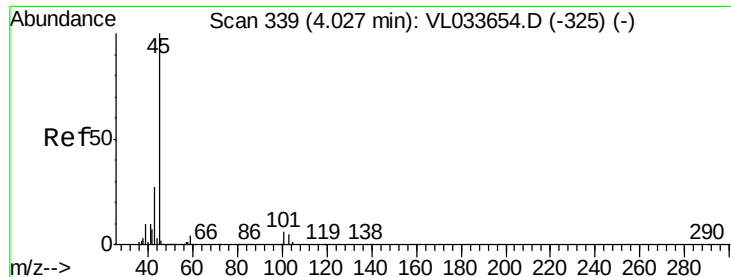


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 0.487 ppbv

RT: 4.04 min Scan# 342

Delta R.T. 0.01 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Instrument :

MSVOA_L

ClientSampleId :

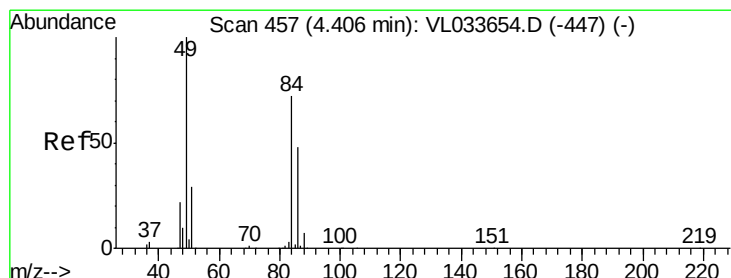
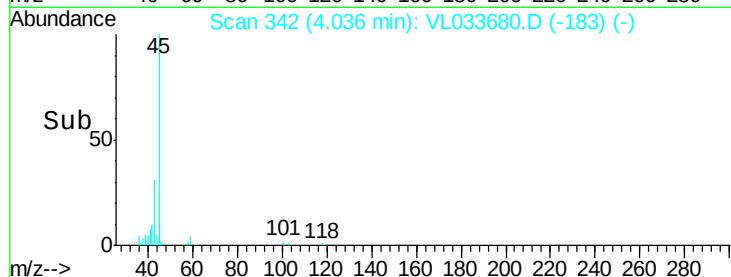
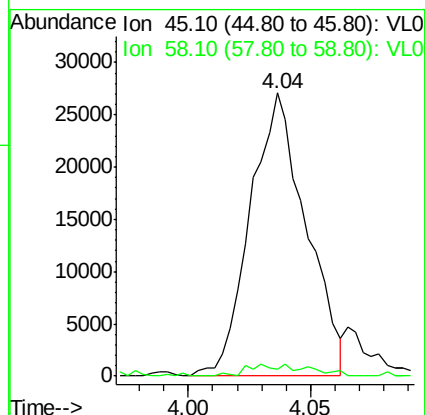
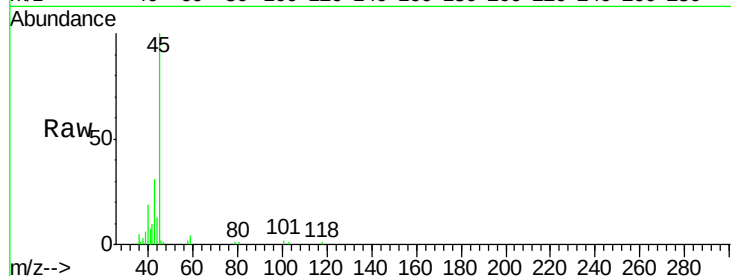
LOD-MDL-AIR-01-QT2-2019

Tot Ion: 45 Resp: 42981

Ion Ratio Lower Upper

45 100

58 4.8 2.0 3.0#



#20

Methylene Chloride

Concen: 0.484 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.00 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Tgt Ion: 84 Resp: 26366

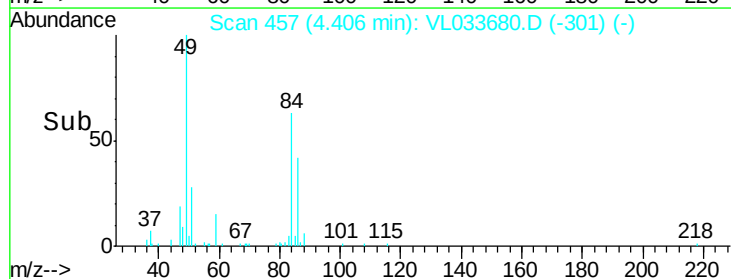
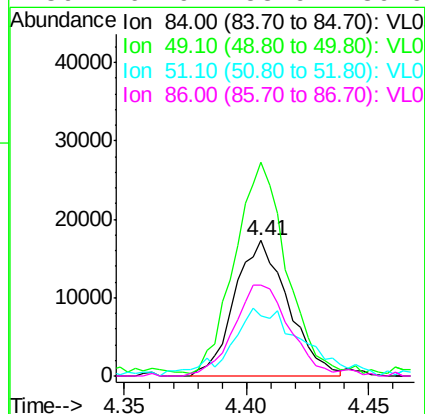
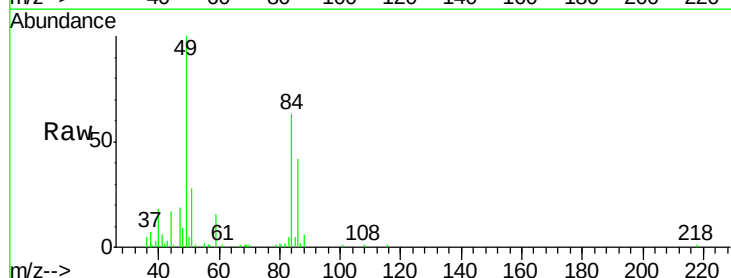
Ion Ratio Lower Upper

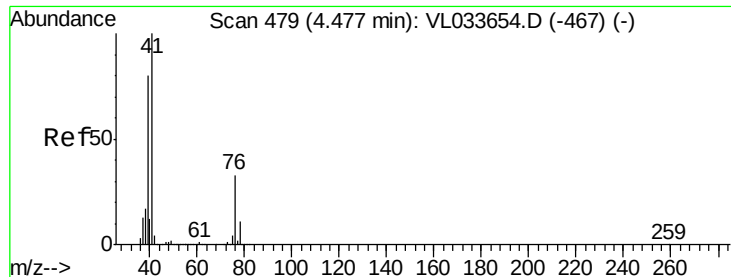
84 100

49 164.8 111.8 167.6

51 40.1 32.3 48.5

86 64.9 53.9 80.9

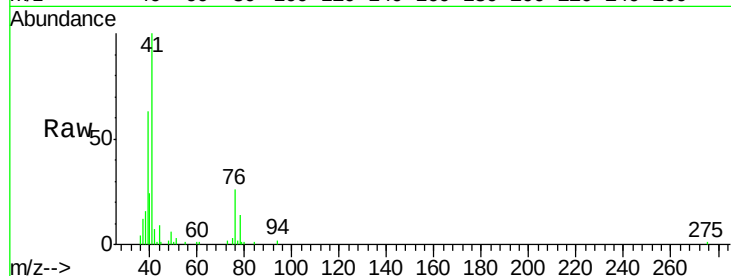




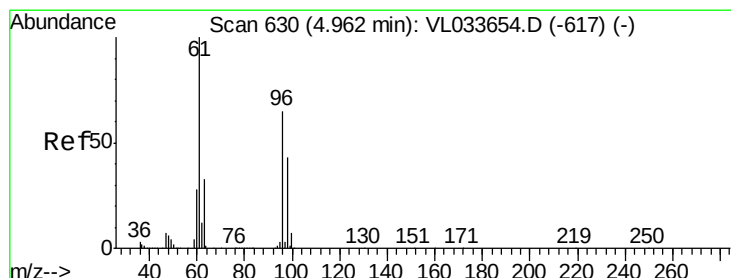
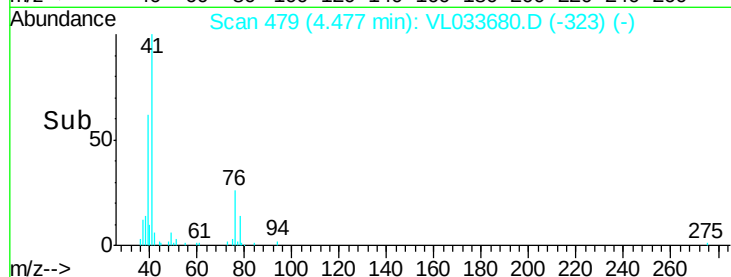
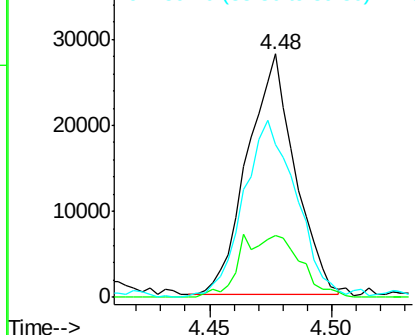
#21
 Allvl Chloride
 Concen: 0.436 ppbv
 RT: 4.48 min Scan# 479
 Delta R.T. 0.00 min
 Lab File: VL033680.D
 Acq: 7 May 2019 13:39

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

Tot Ion: 41 Resp: 37939
 Ion Ratio Lower Upper
 41 100
 76 32.6 26.0 39.0
 39 84.6 64.4 96.6

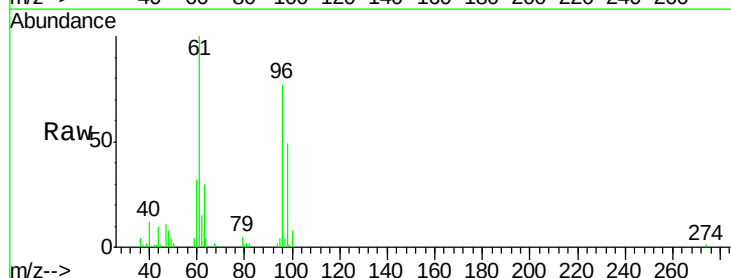


Abundance Ion 41.10 (40.80 to 41.80): VL0
 Ion 76.10 (75.80 to 76.80): VL0
 Ion 39.10 (38.80 to 39.80): VL0

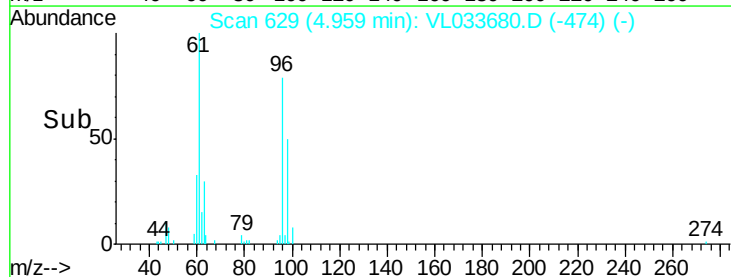
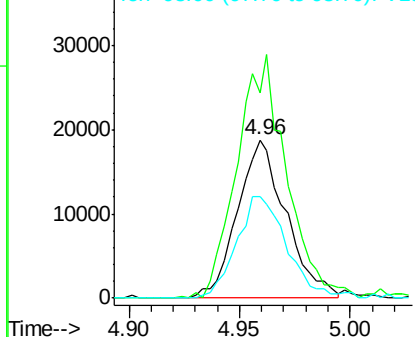


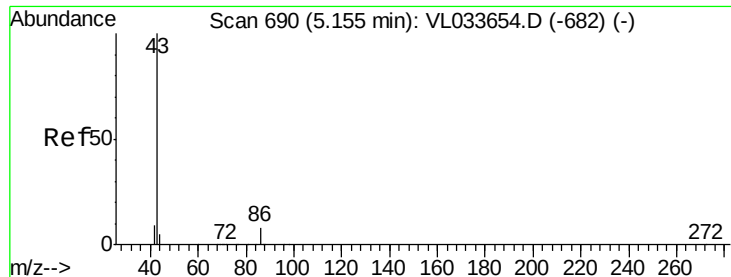
#22
 trans-1,2-Dichloroethene
 Concen: 0.465 ppbv
 RT: 4.96 min Scan# 629
 Delta R.T. -0.00 min
 Lab File: VL033680.D
 Acq: 7 May 2019 13:39

Tgt Ion: 96 Resp: 28634
 Ion Ratio Lower Upper
 96 100
 61 130.0 123.1 184.7
 98 65.8 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: 0.430 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.00 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

Tot Ion: 43 Resp: 80179

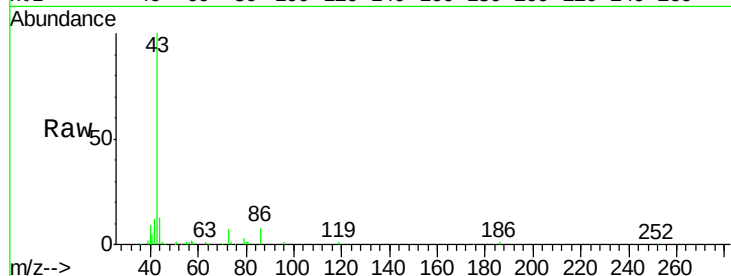
Ion Ratio Lower Upper

43 100

86 7.8 6.0 9.0

42 11.0 8.0 12.0

44 10.8 3.9 5.9#

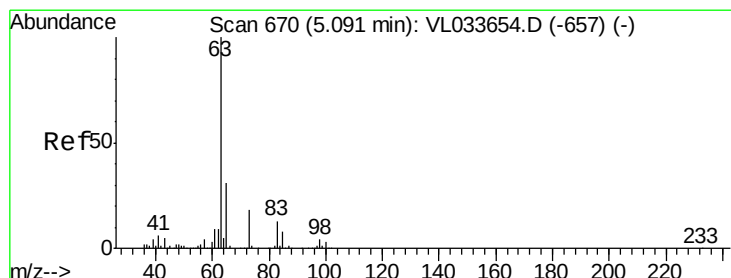
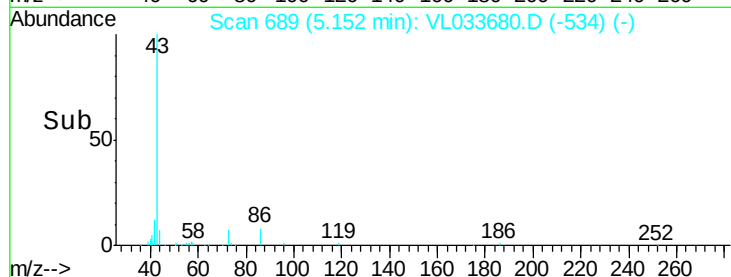
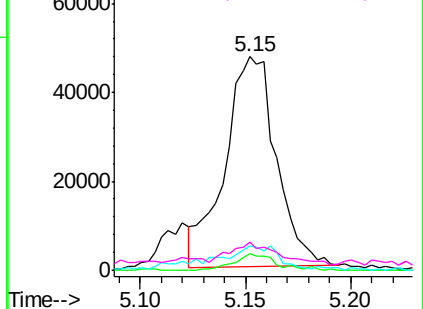


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.464 ppbv

RT: 5.08 min Scan# 668

Delta R.T. -0.01 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

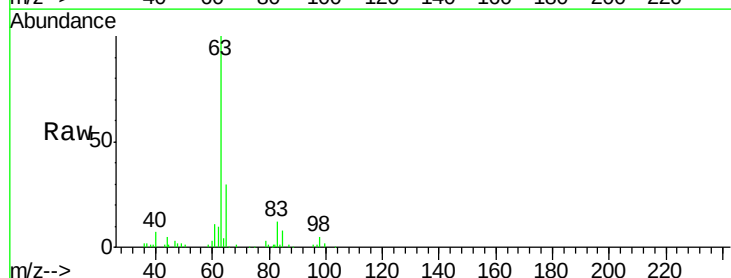
Tgt Ion: 63 Resp: 65444

Ion Ratio Lower Upper

63 100

98 5.1 2.1 6.2

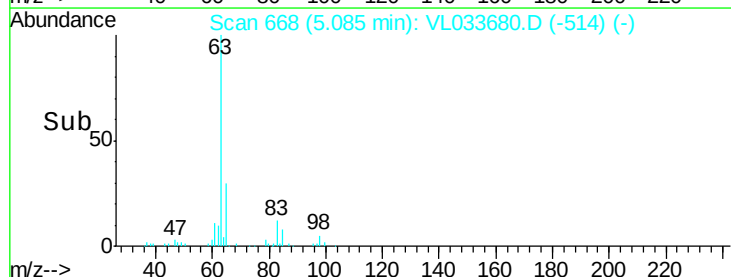
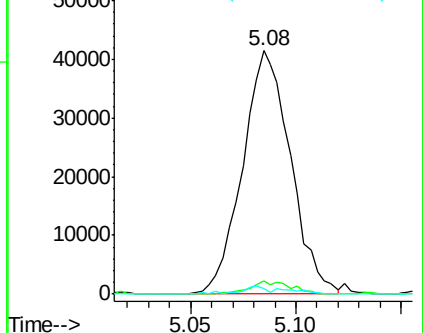
100 2.2 1.5 4.4

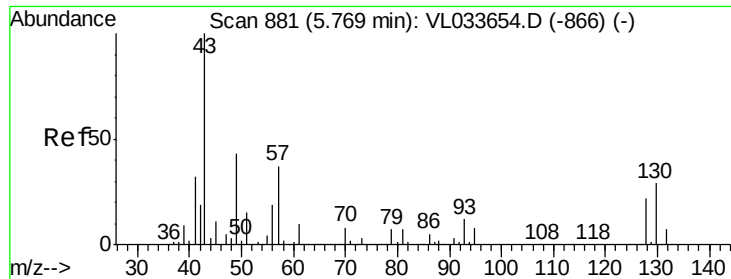


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 0.453 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.00 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

Tot Ion: 43 Resp: 105850

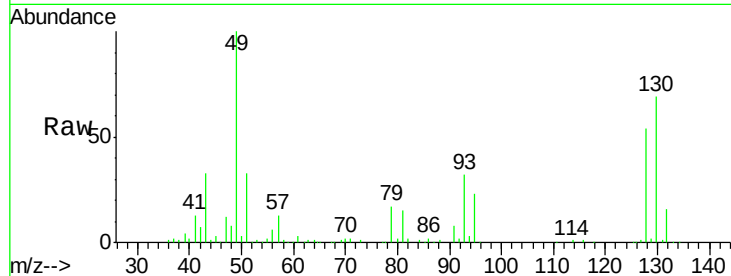
Ion Ratio Lower Upper

43 100

45 10.4 8.0 12.0

61 10.1 7.5 11.3

70 6.9 5.8 8.8



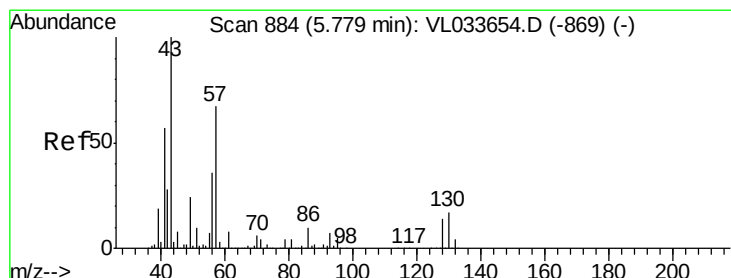
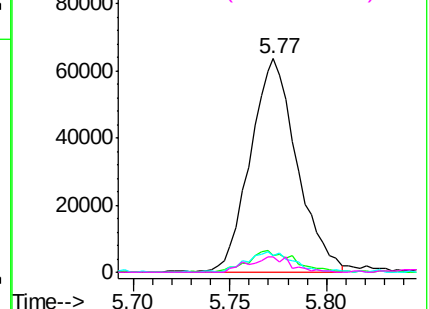
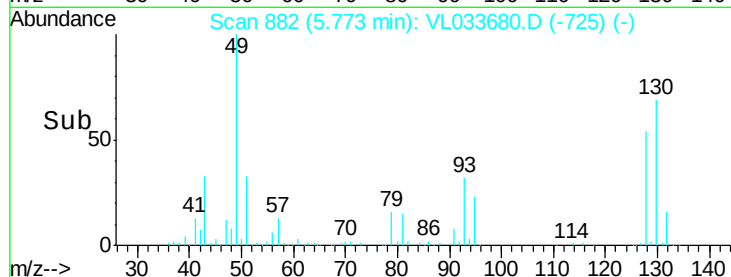
Abundance

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: 0.423 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.00 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Tgt Ion: 57 Resp: 42501

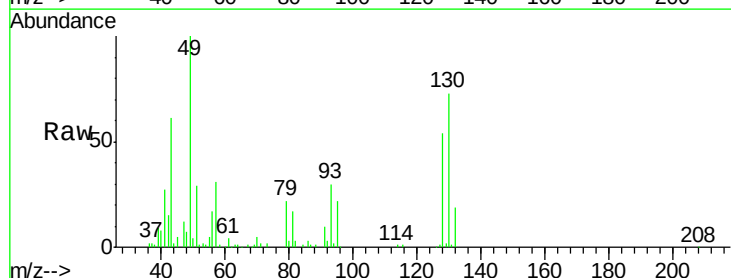
Ion Ratio Lower Upper

57 100

41 102.0 69.7 104.5

43 257.5 181.9 272.9

56 59.5 42.5 63.7



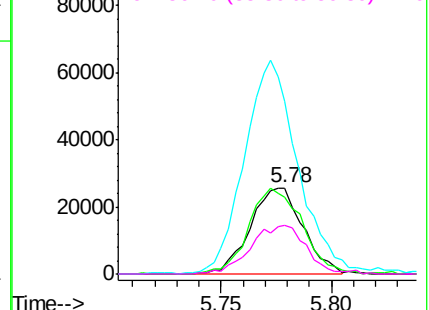
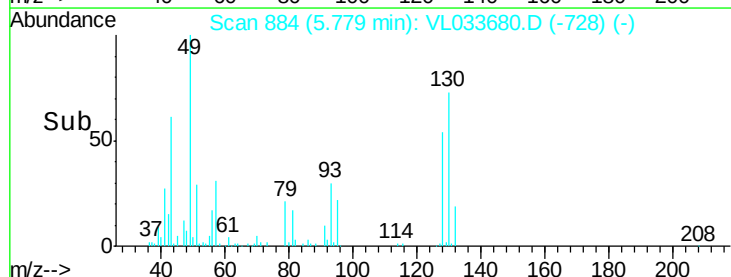
Abundance

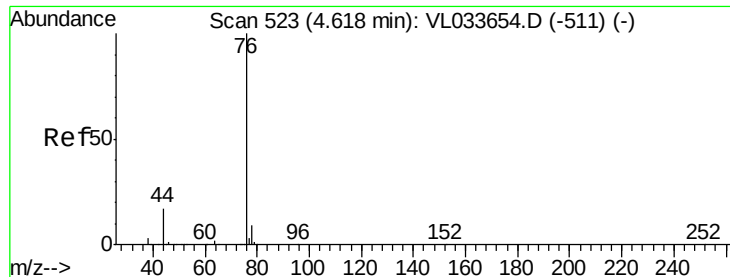
Ion 57.10 (56.80 to 57.80): VL0

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: 0.402 ppbv m

RT: 4.62 min Scan# 525

Delta R.T. 0.01 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

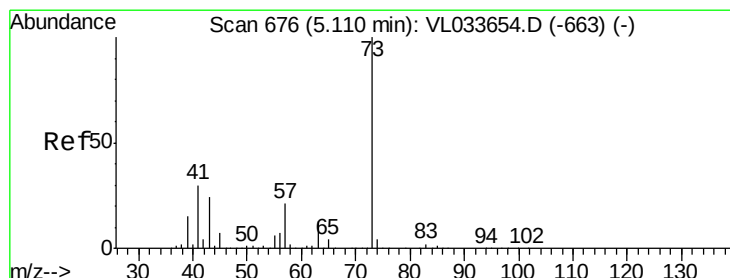
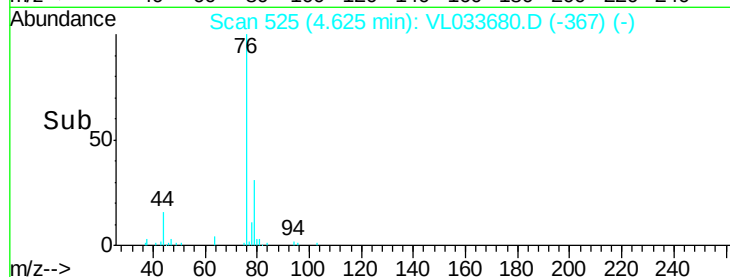
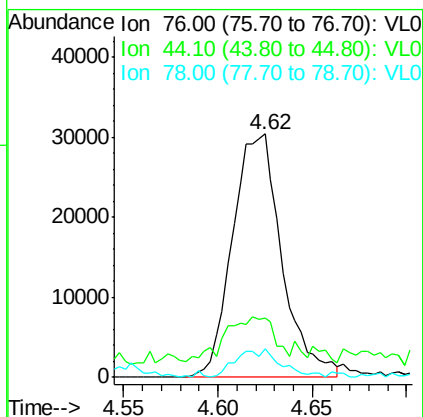
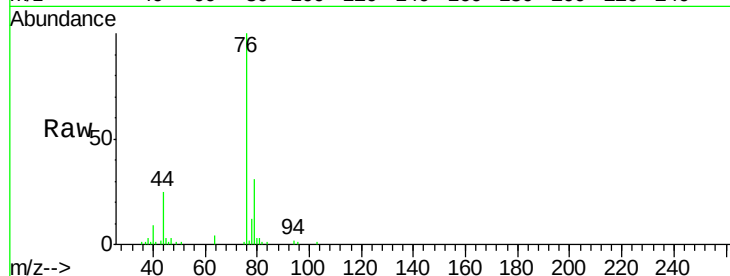
Tot Ion: 76 Resp: 55214

Ion Ratio Lower Upper

76 100

44 26.3 14.4 21.6#

78 11.7 7.4 11.2#



#28

Methyl tert-Butyl Ether

Concen: 0.425 ppbv

RT: 5.12 min Scan# 679

Delta R.T. 0.01 min

Lab File: VL033680.D

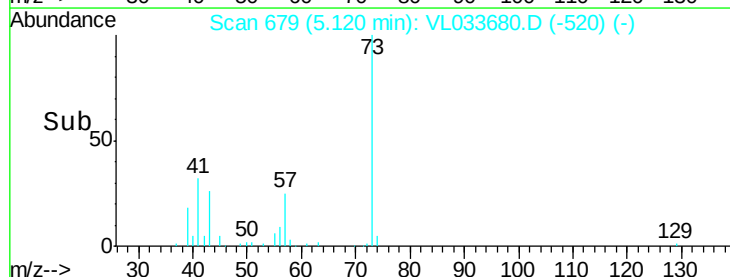
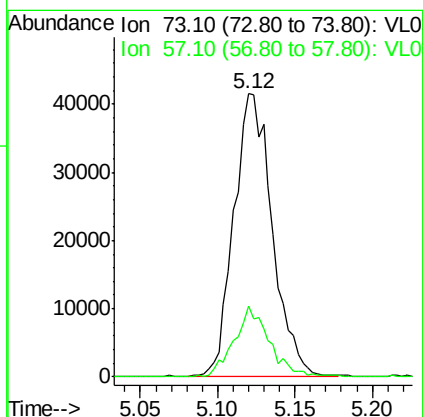
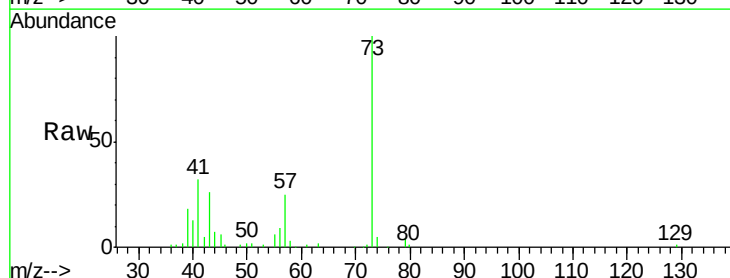
Acq: 7 May 2019 13:39

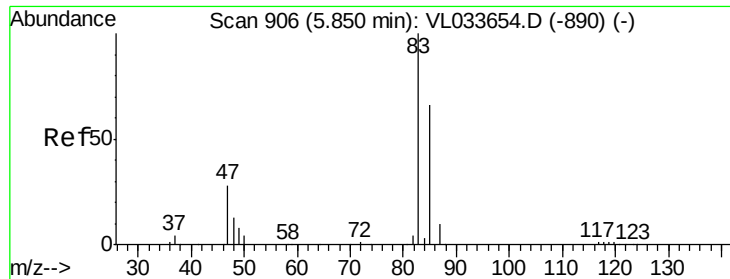
Tgt Ion: 73 Resp: 71802

Ion Ratio Lower Upper

73 100

57 22.9 17.4 26.0

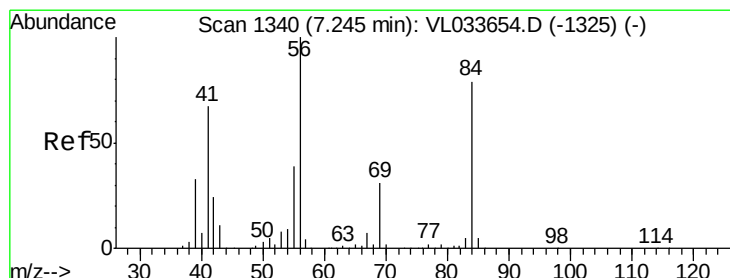
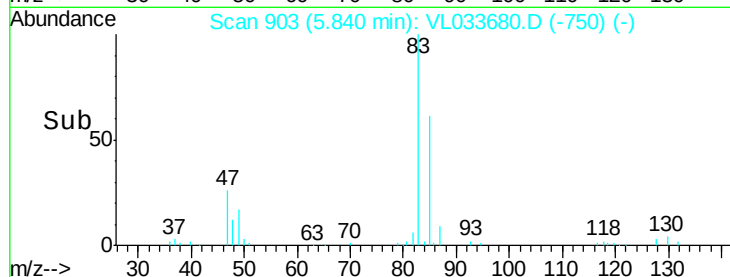
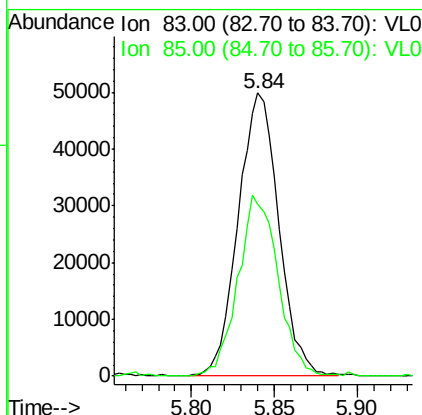
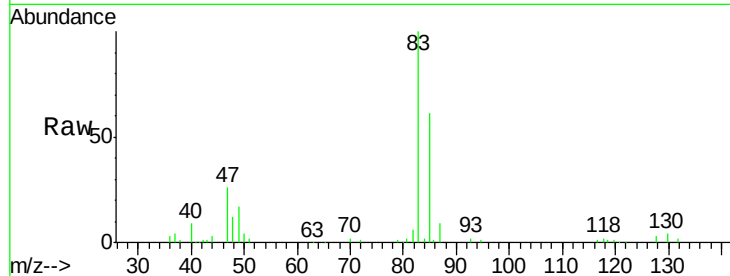




#29
Chloroform
Concen: 0.471 ppbv
RT: 5.84 min Scan# 903
Delta R.T. -0.01 min
Lab File: VL033680.D
Acq: 7 May 2019 13:39

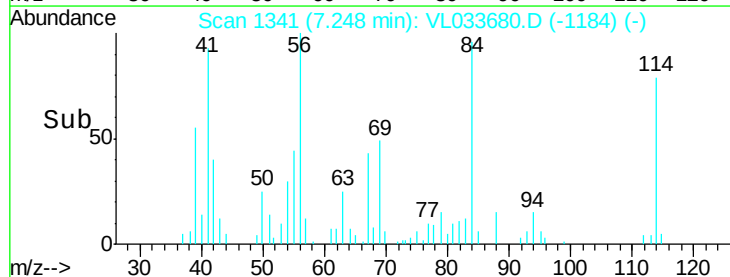
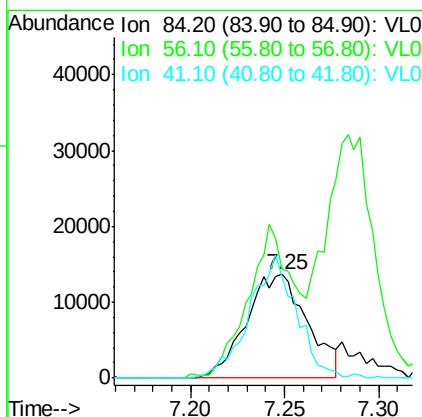
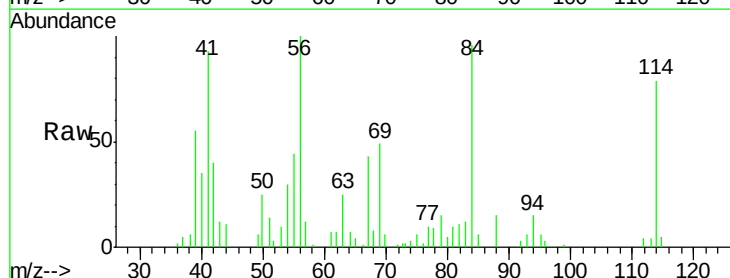
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT2-2019

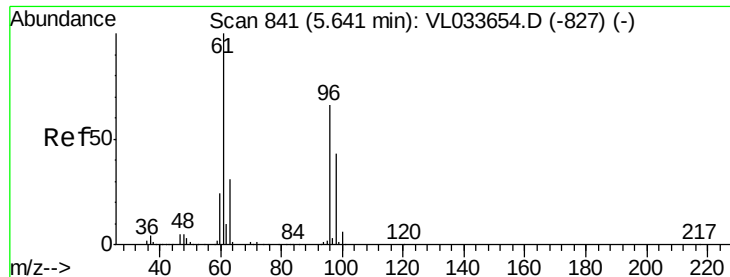
Tot Ion: 83 Resp: 84974
Ion Ratio Lower Upper
83 100
85 61.0 52.6 78.8



#30
Cyclohexane
Concen: 0.367 ppbv m
RT: 7.25 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VL033680.D
Acq: 7 May 2019 13:39

Tgt Ion: 84 Resp: 30952
Ion Ratio Lower Upper
84 100
56 0.0 107.0 160.4#
41 0.0 66.6 99.8#





#31

cis-1,2-Dichloroethene

Concen: 0.419 ppbv

RT: 5.64 min Scan# 840

Delta R.T. -0.00 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

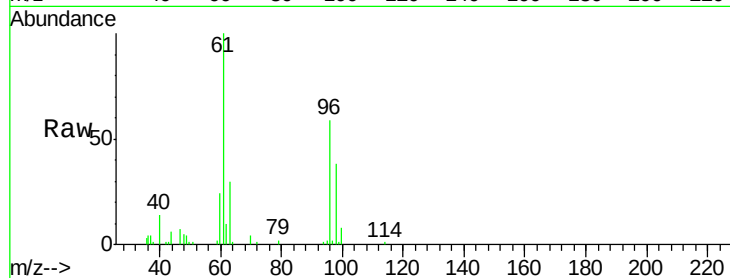
Tot Ion: 61 Resp: 41863

Ion Ratio Lower Upper

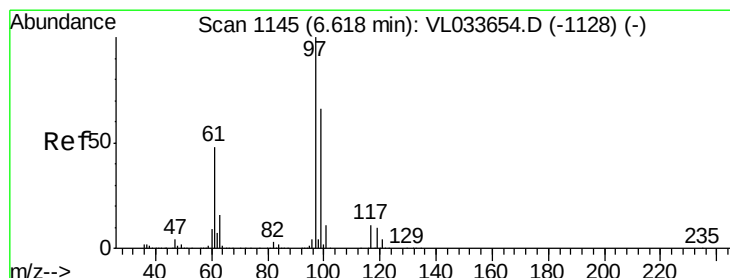
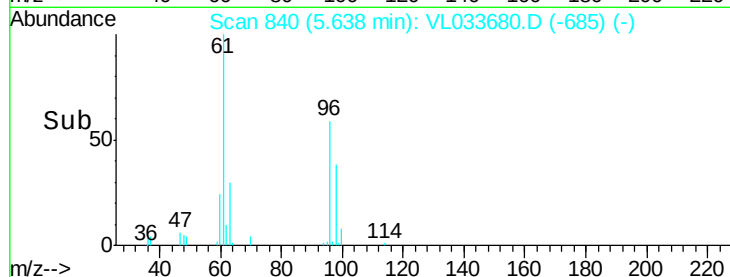
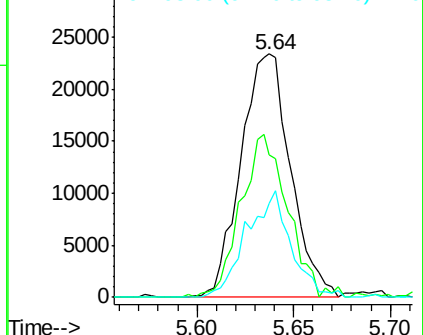
61 100

96 57.3 53.2 79.8

98 38.5 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: 0.422 ppbv

RT: 6.62 min Scan# 1144

Delta R.T. -0.00 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

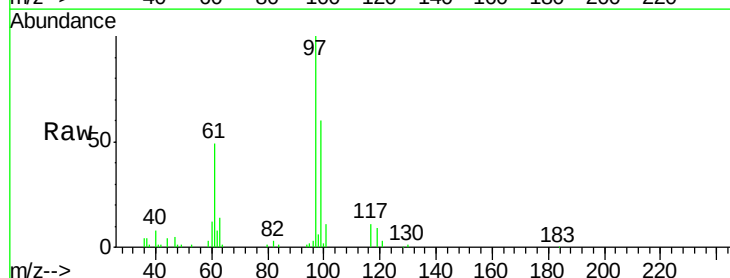
Tgt Ion: 97 Resp: 78739

Ion Ratio Lower Upper

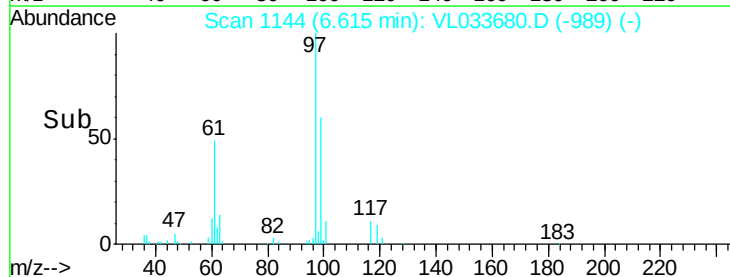
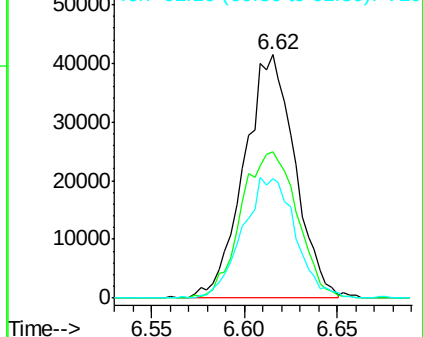
97 100

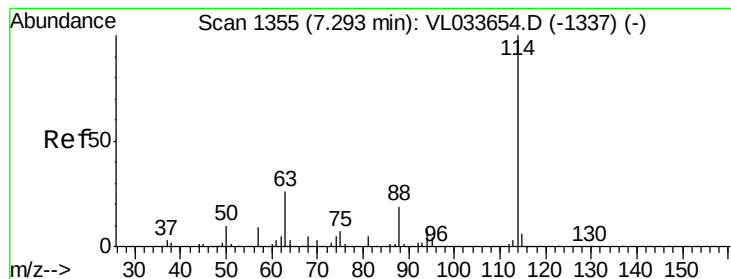
99 66.2 51.4 77.2

61 51.5 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: VL033680.D

Acq: 7 May 2019 13:39

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

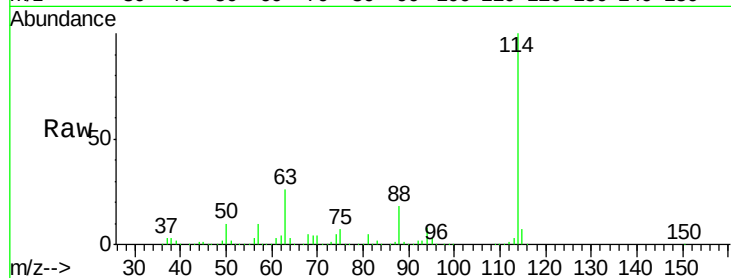
Tot Ion:114 Resp: 2297838

Ion Ratio Lower Upper

114 100

63 26.2 21.3 31.9

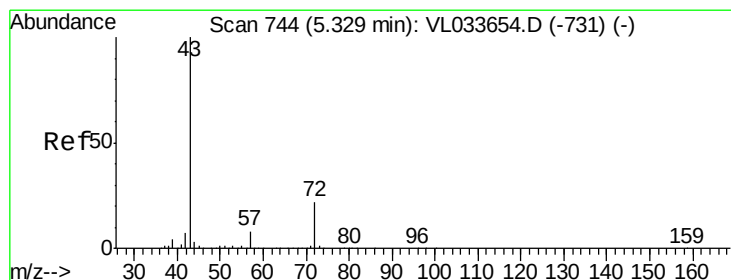
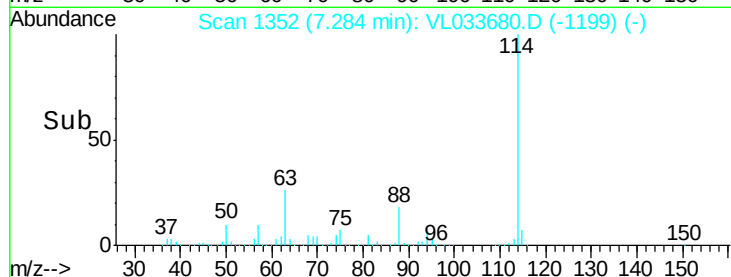
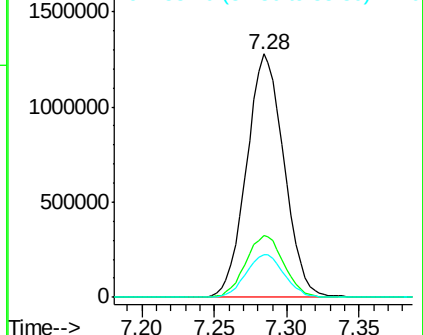
88 18.0 14.4 21.6



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



#34

2-Butanone

Concen: 0.428 ppbv

RT: 5.34 min Scan# 746

Delta R.T. 0.01 min

Lab File: VL033680.D

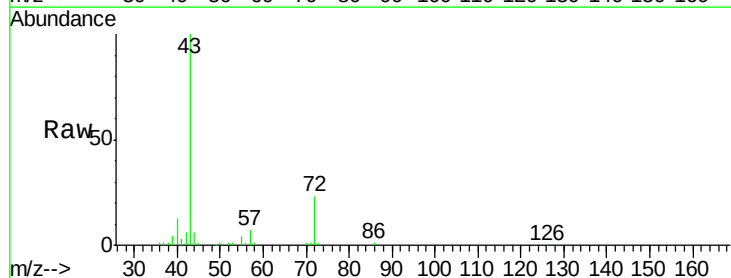
Acq: 7 May 2019 13:39

Tgt Ion: 43 Resp: 63026

Ion Ratio Lower Upper

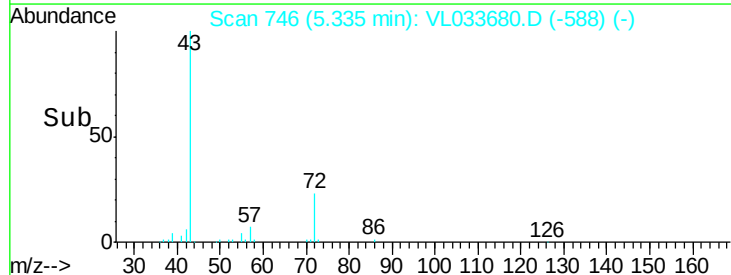
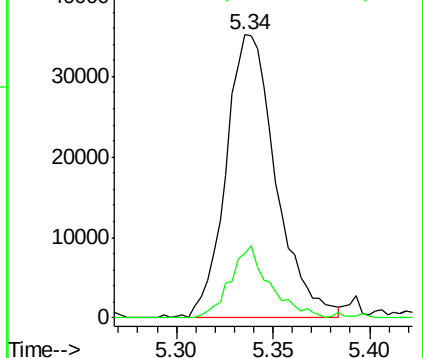
43 100

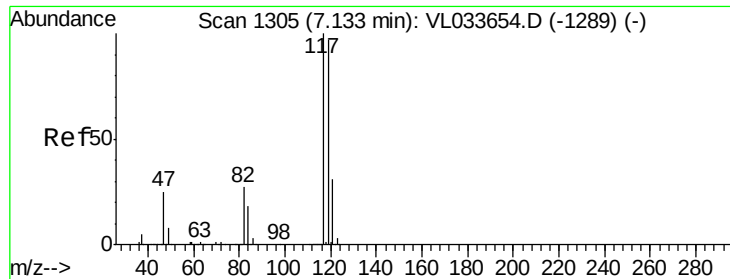
72 20.8 17.5 26.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.437 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

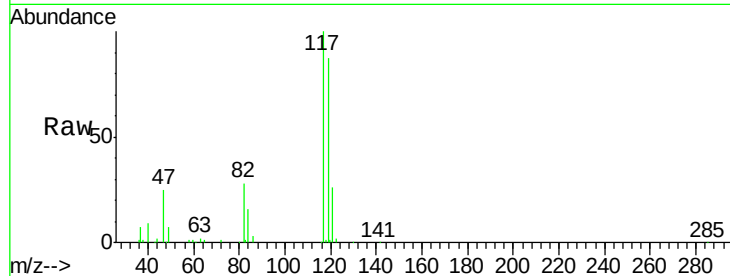
Tot Ion:117 Resp: 82605

Ion Ratio Lower Upper

117 100

119 86.4 77.9 116.9

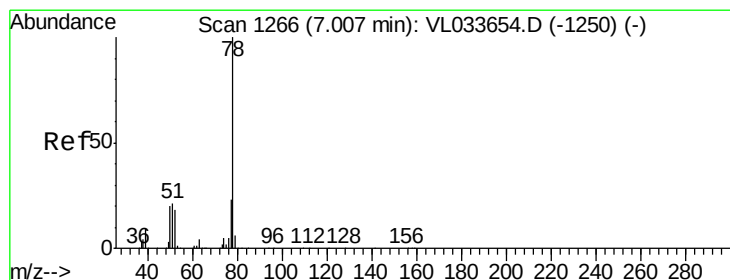
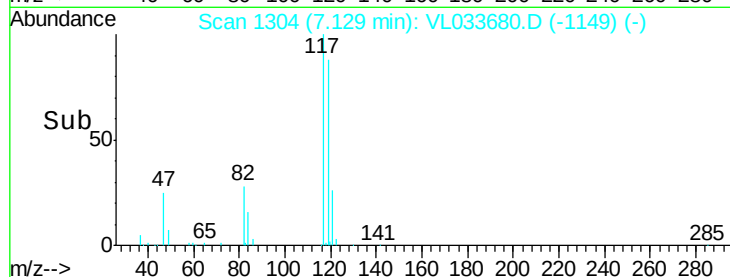
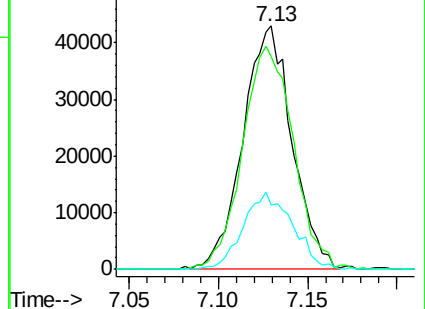
121 26.3 25.0 37.6



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: 0.394 ppbv

RT: 7.00 min Scan# 1263

Delta R.T. -0.01 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

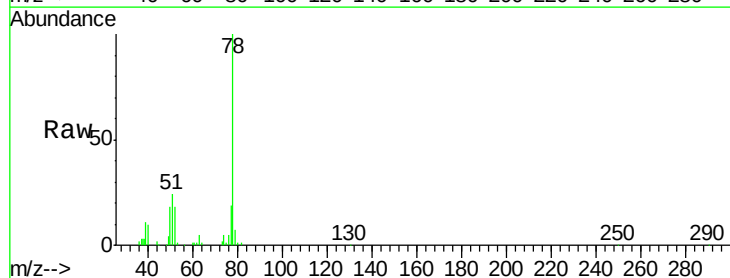
Tgt Ion: 78 Resp: 81096

Ion Ratio Lower Upper

78 100

77 19.0 18.2 27.2

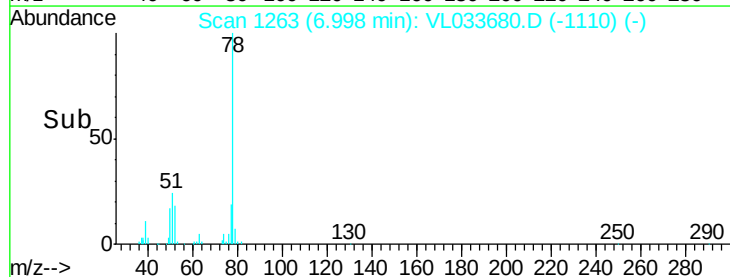
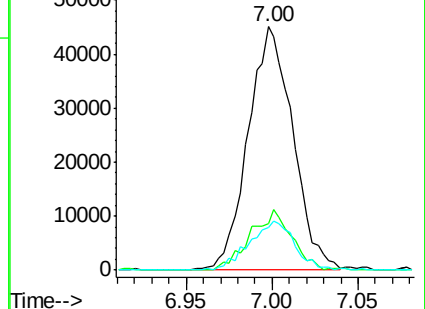
50 17.8 15.8 23.6

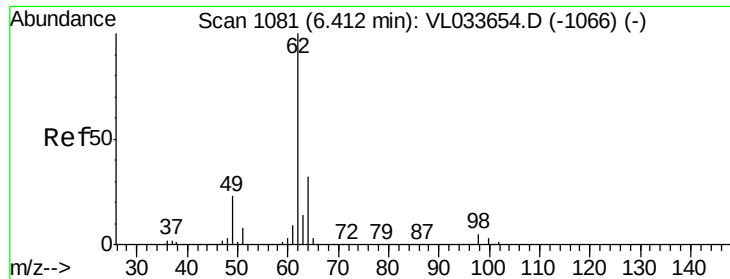


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

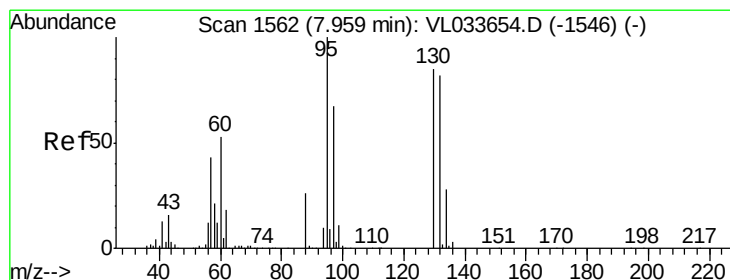
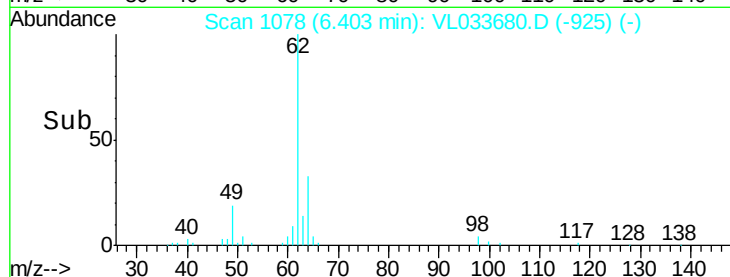
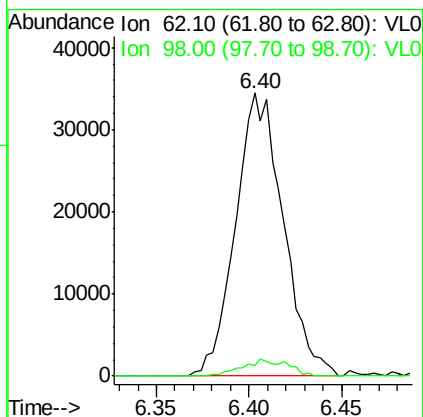
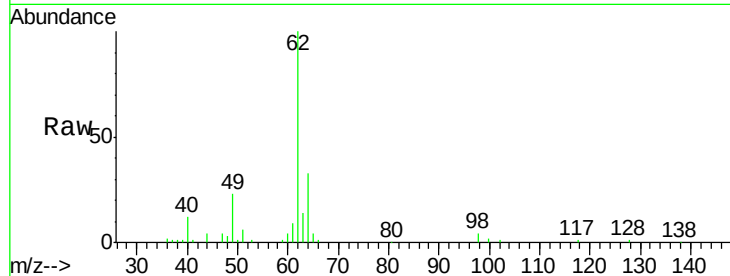




#37
 1,2-Dichloroethane
 Concen: 0.427 ppbv
 RT: 6.40 min Scan# 1078
 Delta R.T. -0.01 min
 Lab File: VL033680.D
 Acq: 7 May 2019 13:39

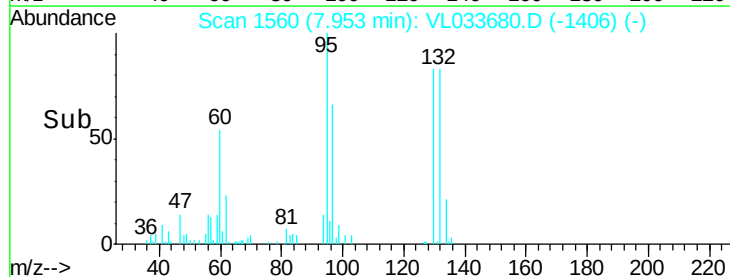
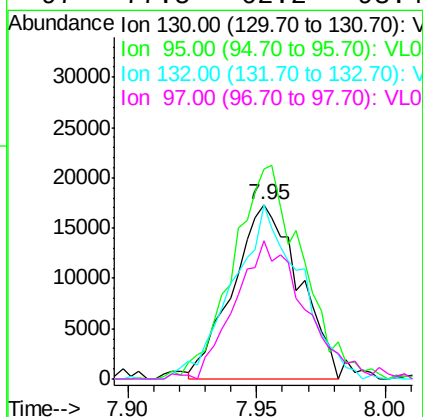
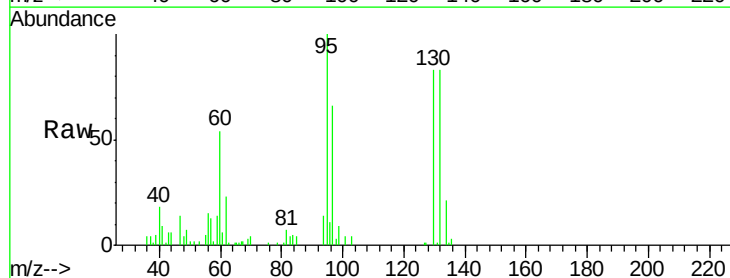
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

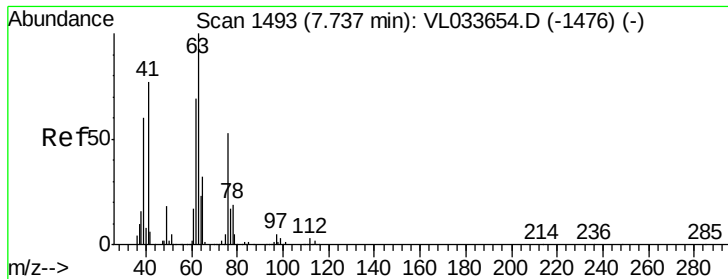
Tot Ion: 62 Resp: 61444
 Ion Ratio Lower Upper
 62 100
 98 5.6 4.5 6.7



#38
 Trichloroethene
 Concen: 0.411 ppbv
 RT: 7.95 min Scan# 1560
 Delta R.T. -0.01 min
 Lab File: VL033680.D
 Acq: 7 May 2019 13:39

Tgt Ion:130 Resp: 31067
 Ion Ratio Lower Upper
 130 100
 95 111.1 93.4 140.0
 132 89.1 76.2 114.4
 97 77.5 62.2 93.4





#39

1,2-Dichloropropane

Concen: 0.450 ppbv

RT: 7.73 min Scan# 1490

Delta R.T. -0.01 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

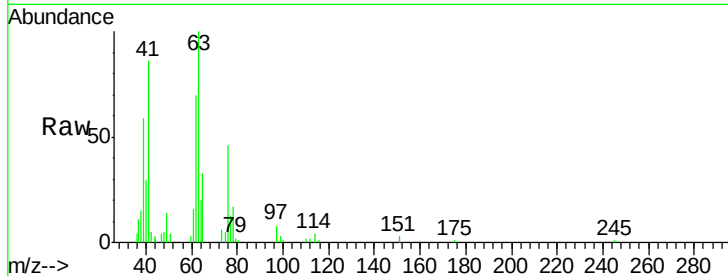
Tot Ion: 63 Resp: 34552

Ion Ratio Lower Upper

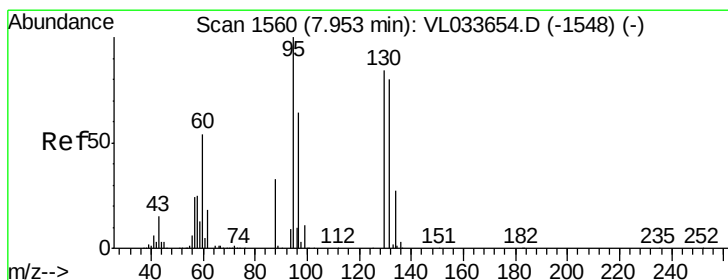
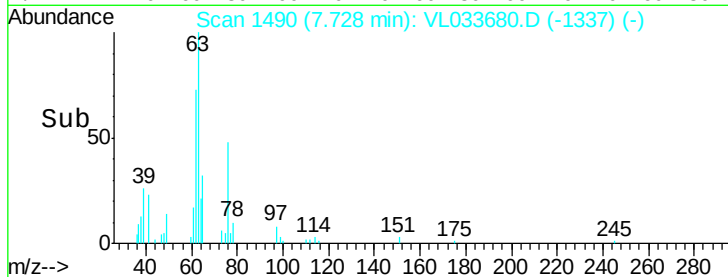
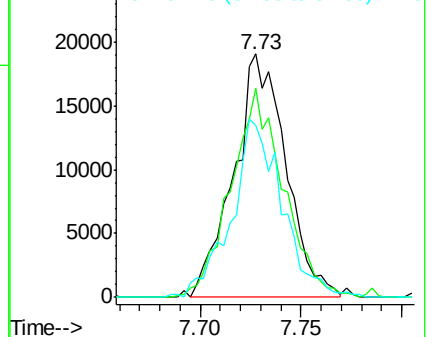
63 100

41 84.5 61.6 92.4

62 68.8 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



#40

1,4-Dioxane

Concen: 0.456 ppbv m

RT: 7.99 min Scan# 1573

Delta R.T. 0.04 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Tgt Ion: 88 Resp: 13988

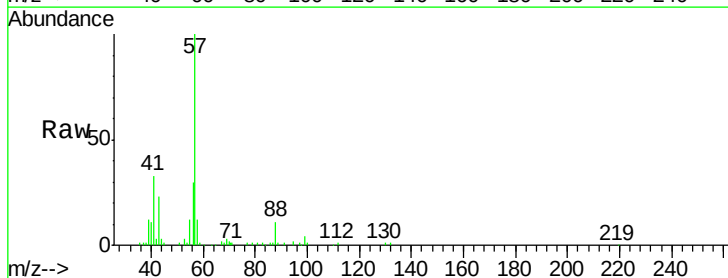
Ion Ratio Lower Upper

88 100

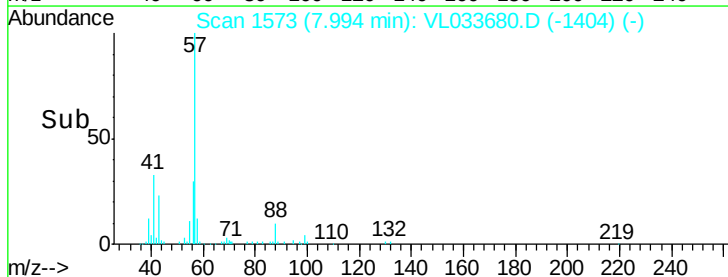
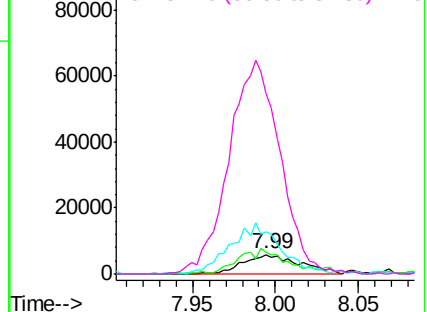
58 126.6 102.3 153.5

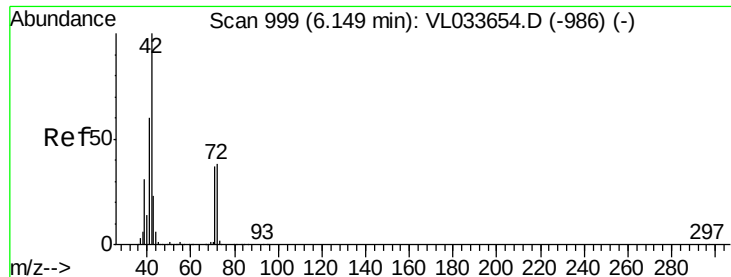
43 240.5 206.1 309.1

57 991.5 910.6 1366.0



Abundance Ion 88.10 (87.80 to 88.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 0.377 ppbv

RT: 6.17 min Scan# 1005

Delta R.T. 0.02 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

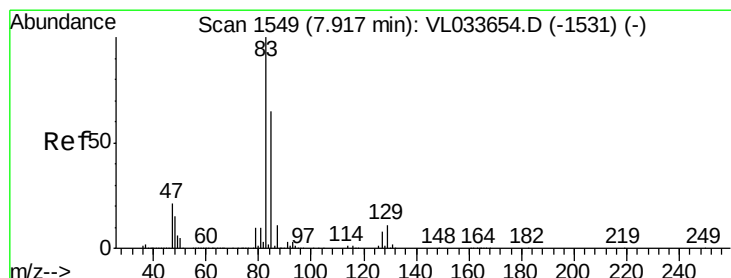
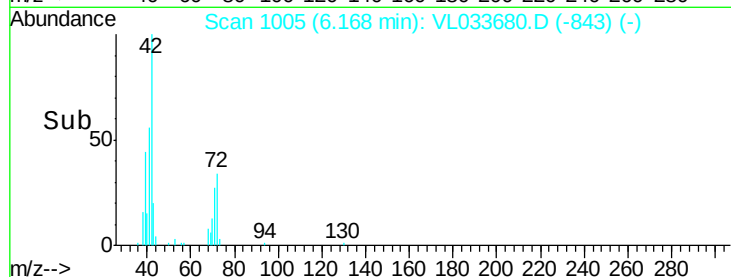
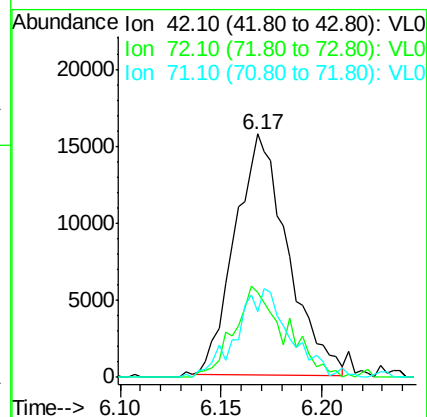
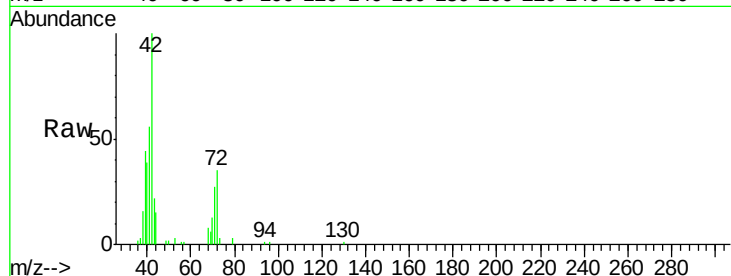
Tot Ion: 42 Resp: 28703

Ion Ratio Lower Upper

42 100

72 37.2 31.6 47.4

71 37.2 30.6 46.0



#42

Bromodichloromethane

Concen: 0.422 ppbv

RT: 7.91 min Scan# 1546

Delta R.T. -0.01 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

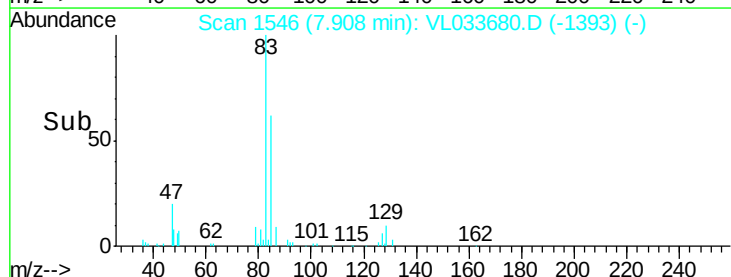
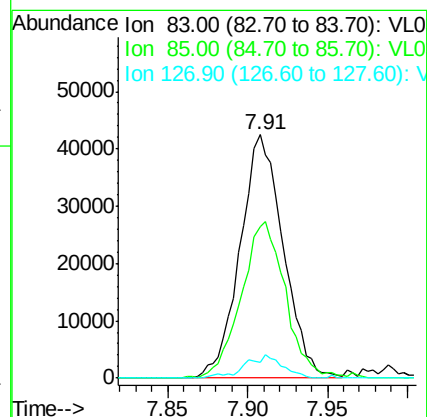
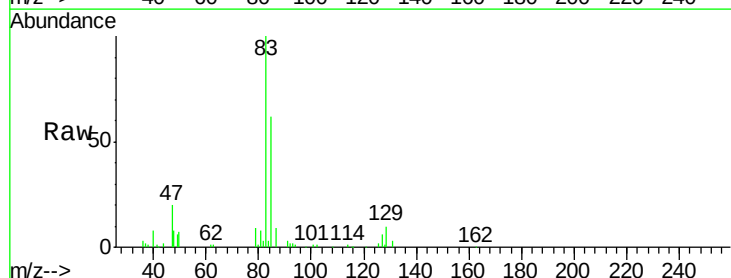
Tgt Ion: 83 Resp: 78272

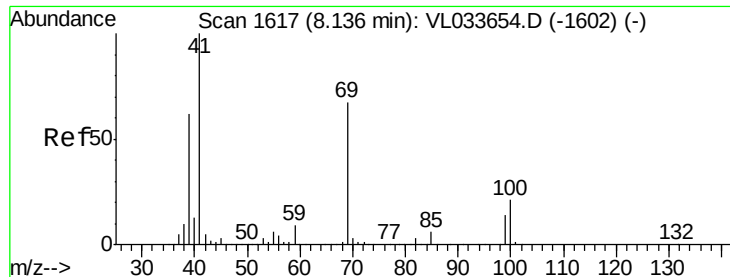
Ion Ratio Lower Upper

83 100

85 61.9 52.4 78.6

127 6.3 6.6 9.8#

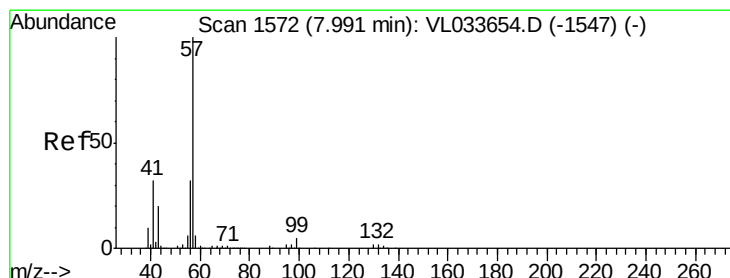
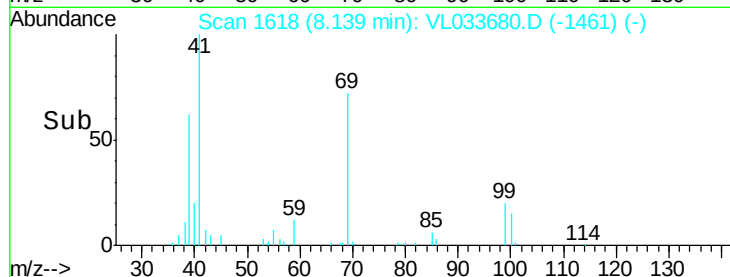
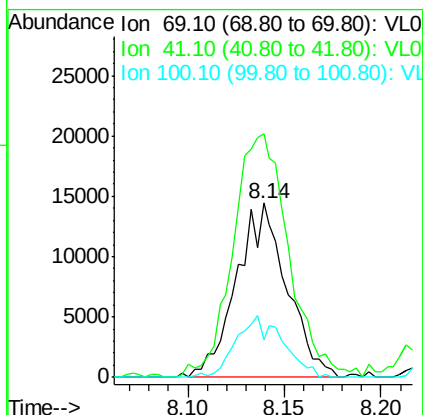
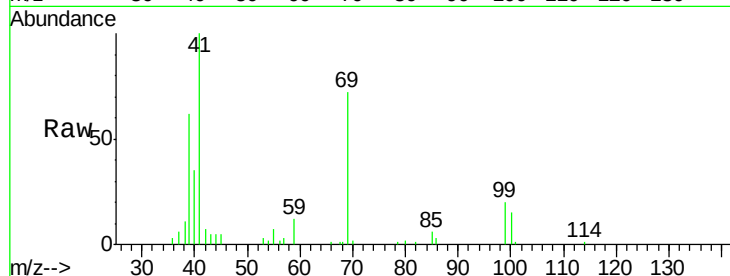




#43
Methyl Methacrylate
Concen: 0.338 ppbv
RT: 8.14 min Scan# 1618
Delta R.T. 0.00 min
Lab File: VL033680.D
Acq: 7 May 2019 13:39

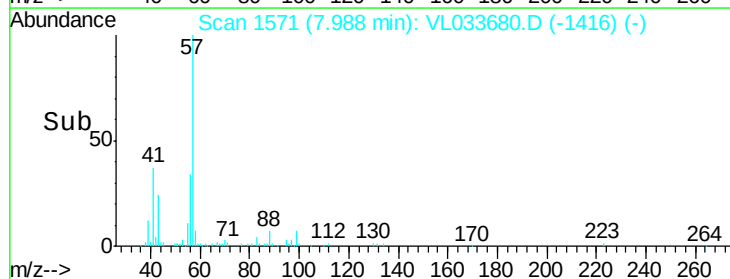
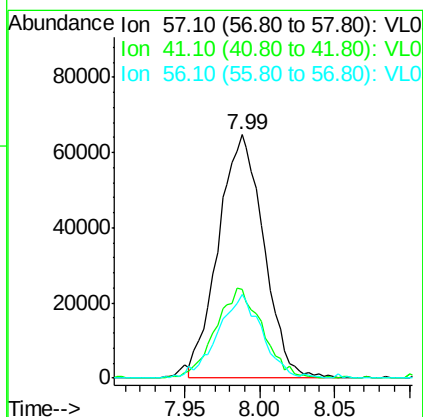
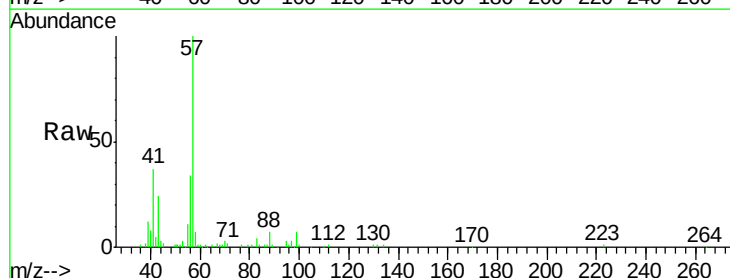
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT2-2019

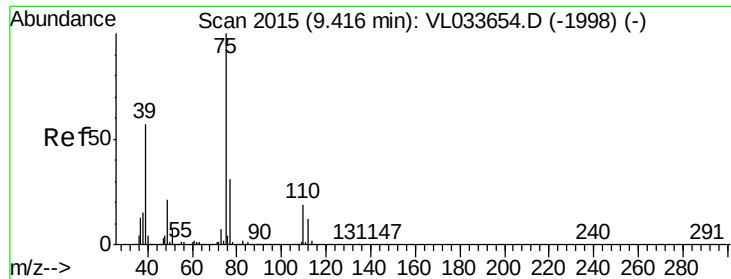
Tot Ion: 69 Resp: 26158
Ion Ratio Lower Upper
69 100
41 154.1 116.6 175.0
100 33.0 24.6 37.0



#44
2,2,4-Trimethylpentane
Concen: 0.388 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VL033680.D
Acq: 7 May 2019 13:39

Tgt Ion: 57 Resp: 136752
Ion Ratio Lower Upper
57 100
41 38.0 25.7 38.5
56 34.1 25.0 37.6





#45

t-1,3-Dichloropropene

Concen: 0.309 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. -0.00 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Instrument :

MSVOA_L

ClientSampleId :

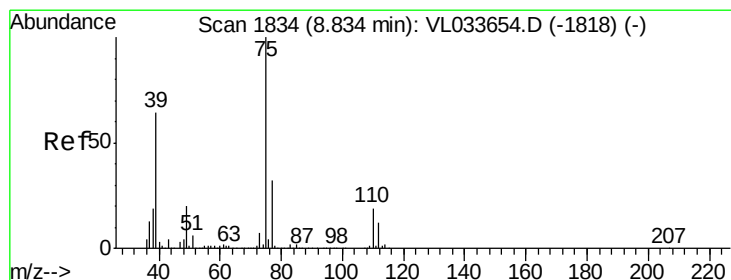
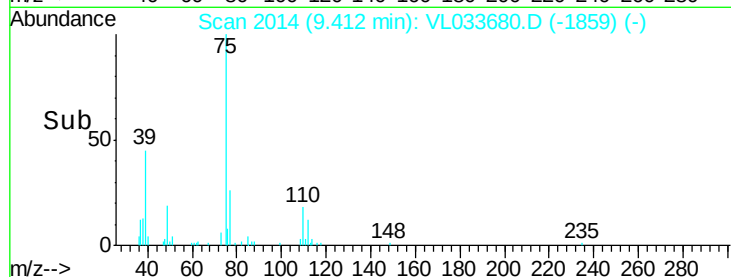
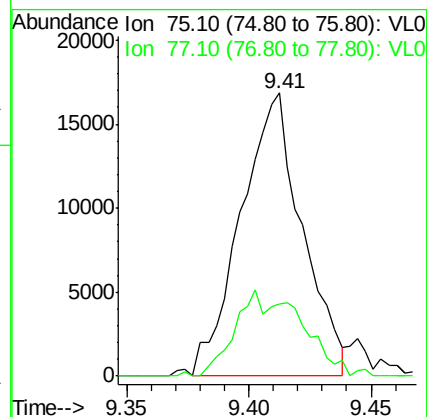
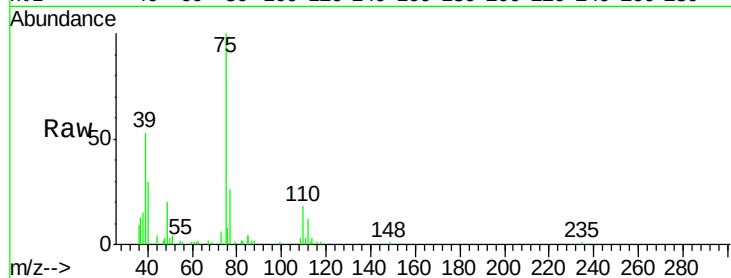
LOD-MDL-AIR-01-QT2-2019

Tot Ion: 75 Resp: 29436

Ion Ratio Lower Upper

75 100

77 23.9 24.7 37.1#



#46

cis-1,3-Dichloropropene

Concen: 0.317 ppbv

RT: 8.83 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

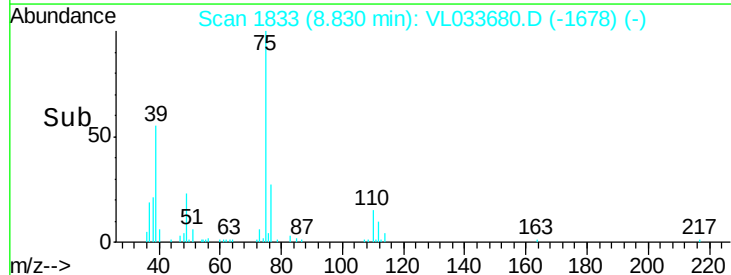
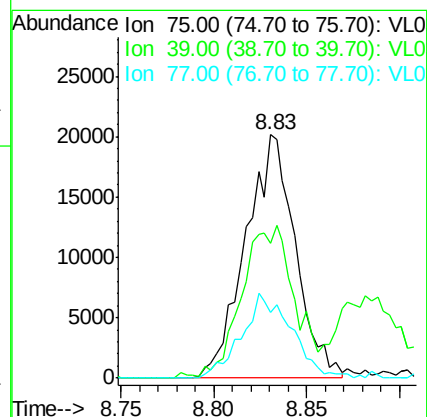
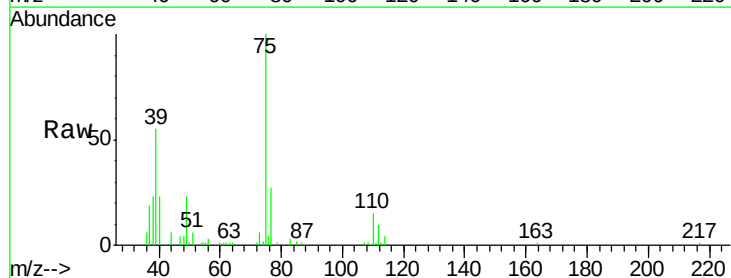
Tgt Ion: 75 Resp: 37619

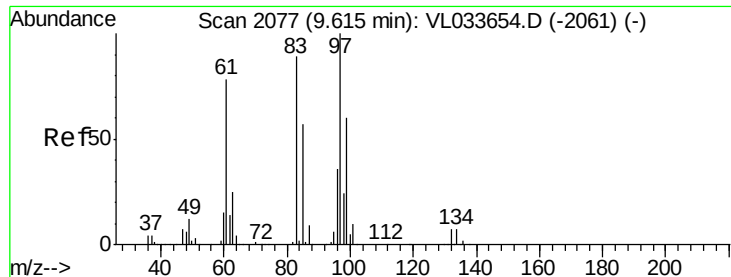
Ion Ratio Lower Upper

75 100

39 54.2 51.5 77.3

77 26.7 25.4 38.0

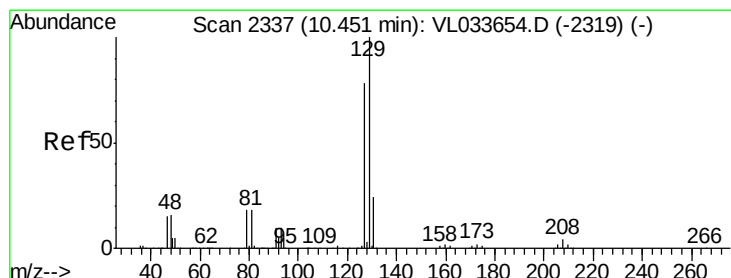
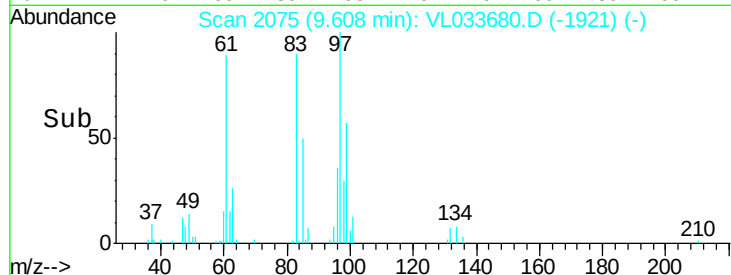
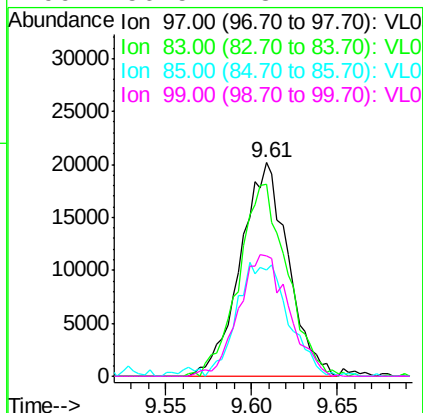
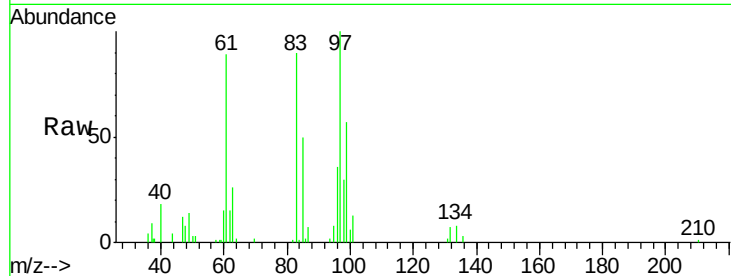




#47
 1,1,2-Trichloroethane
 Concen: 0.441 ppbv
 RT: 9.61 min Scan# 2075
 Delta R.T. -0.01 min
 Lab File: VL033680.D
 Acq: 7 May 2019 13:39

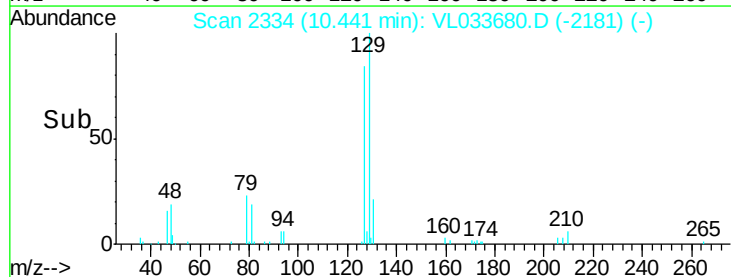
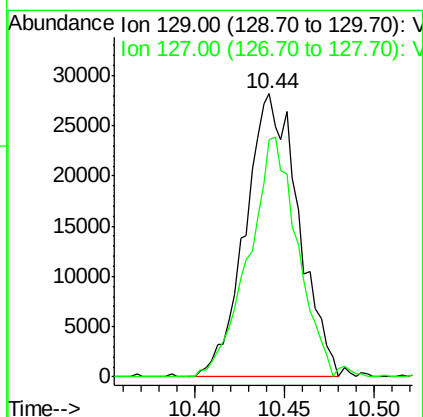
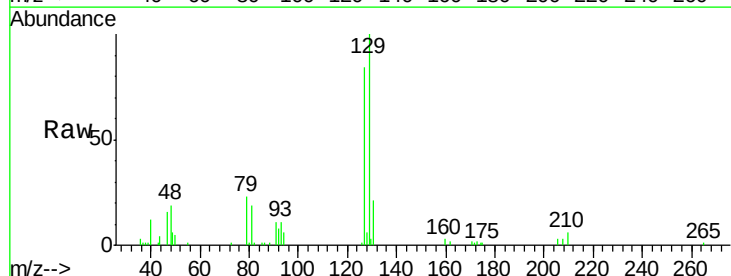
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

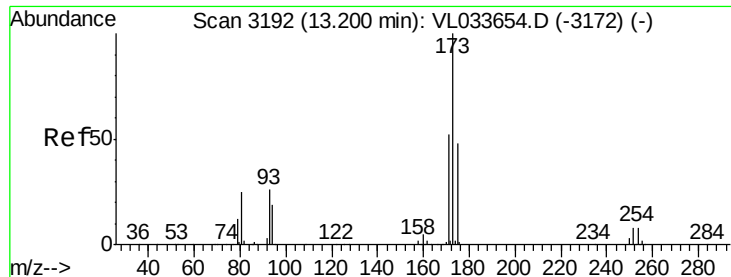
Tot Ion: 97 Resp: 38896
 Ion Ratio Lower Upper
 97 100
 83 89.2 70.9 106.3
 85 49.7 45.8 68.6
 99 56.5 48.2 72.4



#48
 Dibromochloromethane
 Concen: 0.388 ppbv m
 RT: 10.44 min Scan# 2334
 Delta R.T. -0.01 min
 Lab File: VL033680.D
 Acq: 7 May 2019 13:39

Tgt Ion: 129 Resp: 58056
 Ion Ratio Lower Upper
 129 100
 127 78.7 39.1 117.2





#49

Bromoform

Concen: 0.365 ppbv m

RT: 13.20 min Scan# 3191

Delta R.T. -0.00 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

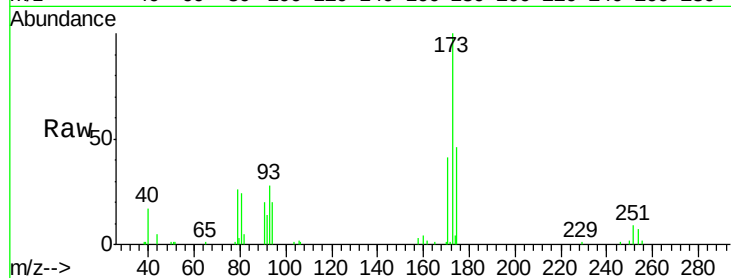
Tot Ion:173 Resp: 47439

Ion Ratio Lower Upper

173 100

175 0.0 39.3 58.9#

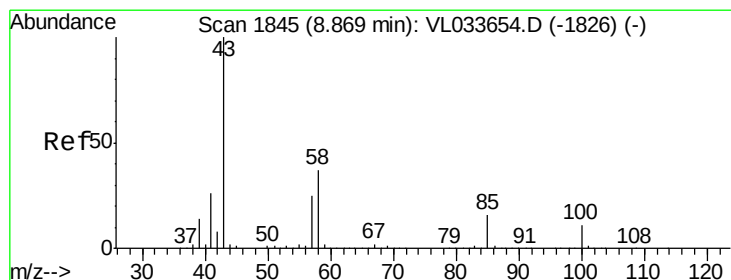
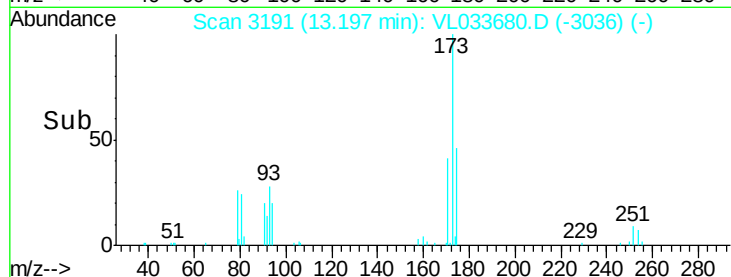
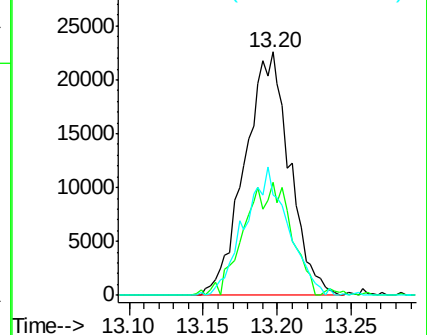
171 0.0 41.5 62.3#



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



#50

4-Methyl-2-Pentanone

Concen: 0.377 ppbv

RT: 8.89 min Scan# 1850

Delta R.T. 0.02 min

Lab File: VL033680.D

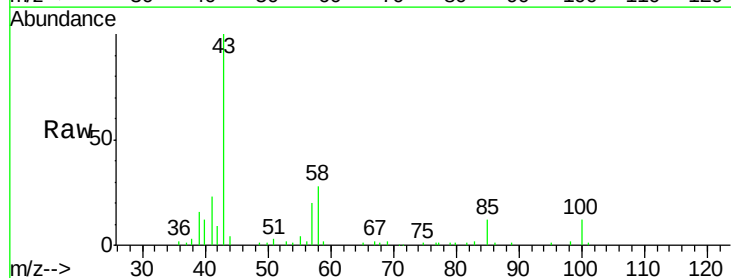
Acq: 7 May 2019 13:39

Tgt Ion: 43 Resp: 84022

Ion Ratio Lower Upper

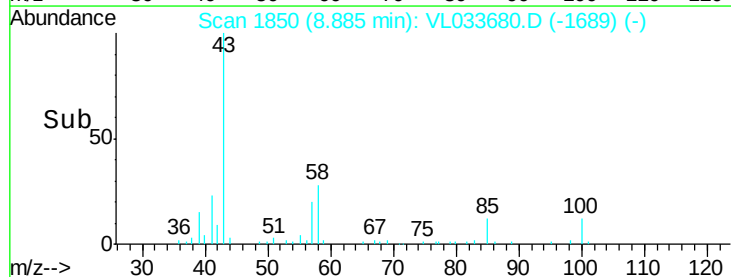
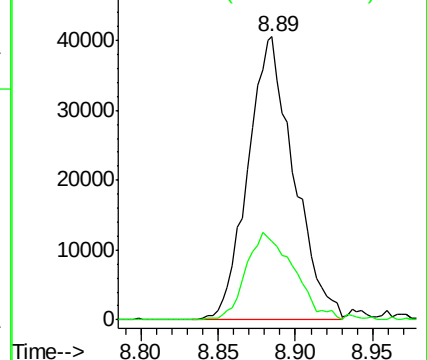
43 100

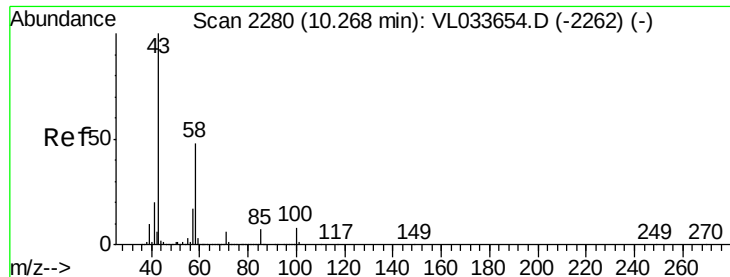
58 32.7 28.8 43.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 0.338 ppbv m

RT: 10.29 min Scan# 2287

Delta R.T. 0.02 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

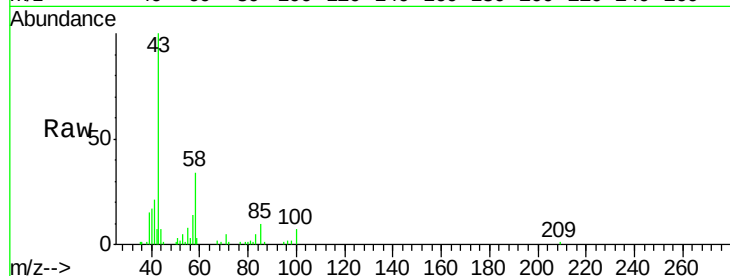
Tot Ion: 43 Resp: 58379

Ion Ratio Lower Upper

43 100

58 40.8 38.2 57.4

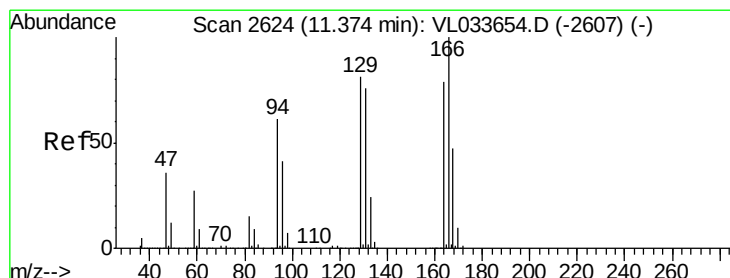
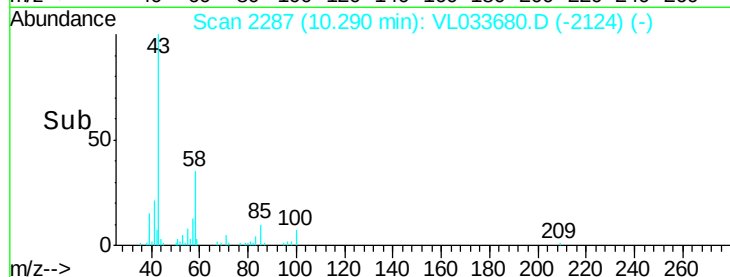
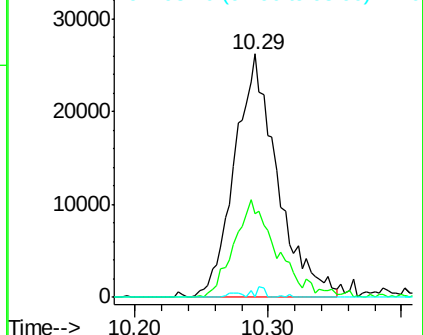
98 1.6 0.2 0.4#



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: 0.419 ppbv m

RT: 11.36 min Scan# 2621

Delta R.T. -0.01 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Tgt Ion: 164 Resp: 30576

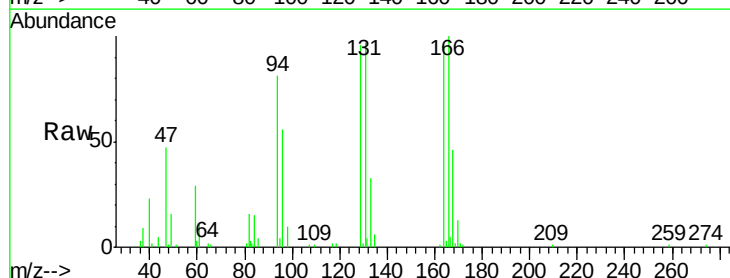
Ion Ratio Lower Upper

164 100

166 103.6 100.6 151.0

129 100.0 81.0 121.6

131 100.8 76.4 114.6

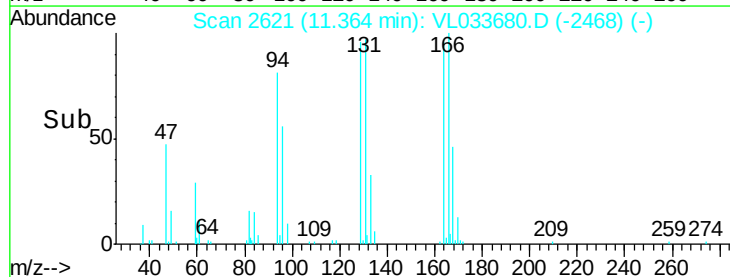
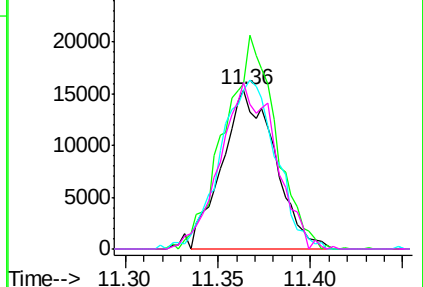


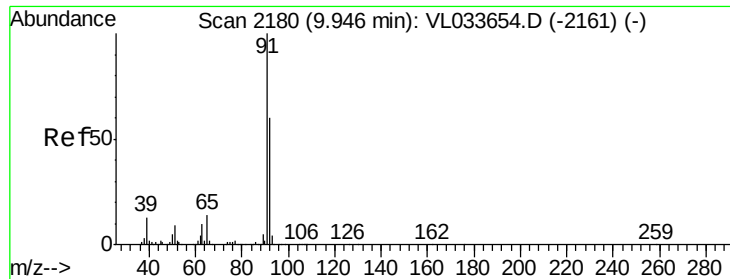
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.339 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Instrument :

MSVOA_L

ClientSampleId :

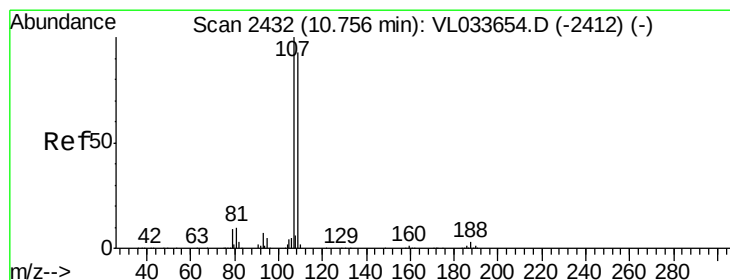
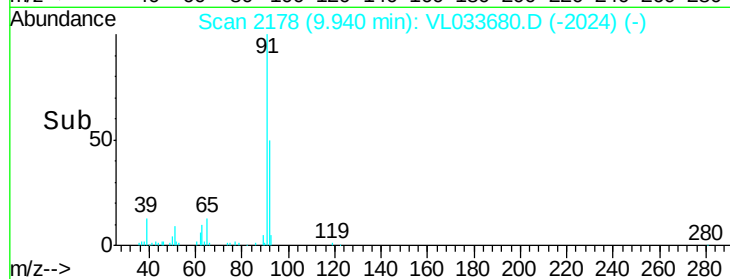
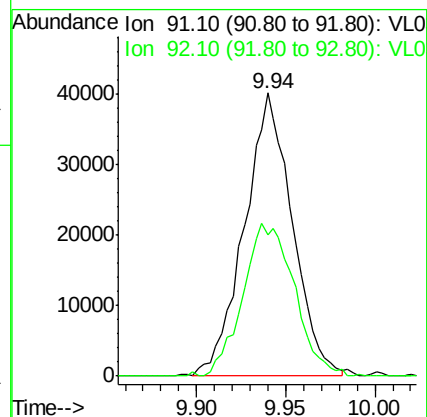
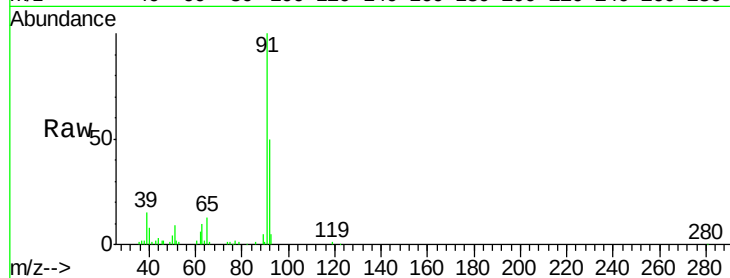
LOD-MDL-AIR-01-QT2-2019

Tot Ion: 91 Resp: 75370

Ion Ratio Lower Upper

91 100

92 57.9 47.7 71.5



#54

1,2-Dibromoethane

Concen: 0.410 ppbv

RT: 10.75 min Scan# 2431

Delta R.T. -0.00 min

Lab File: VL033680.D

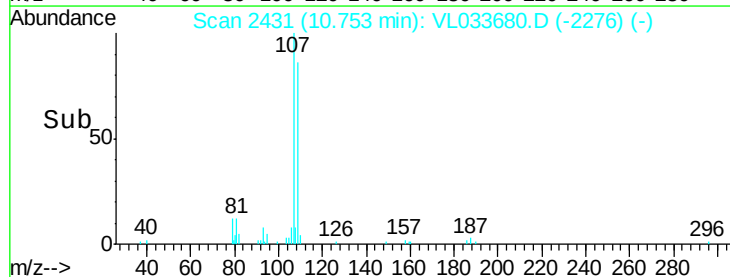
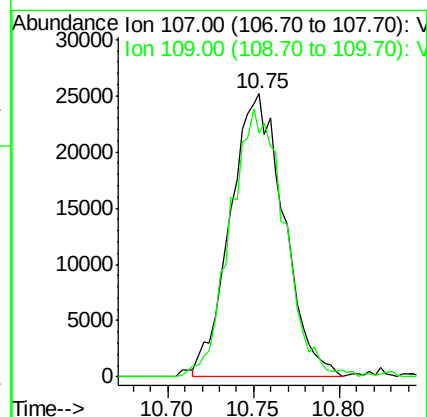
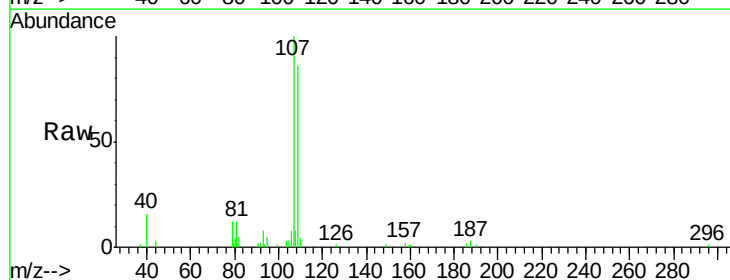
Acq: 7 May 2019 13:39

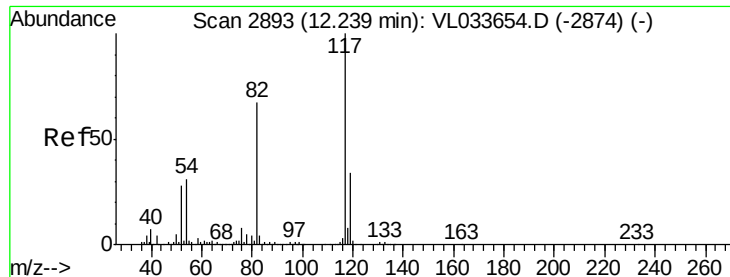
Tgt Ion:107 Resp: 54498

Ion Ratio Lower Upper

107 100

109 83.4 74.6 111.8

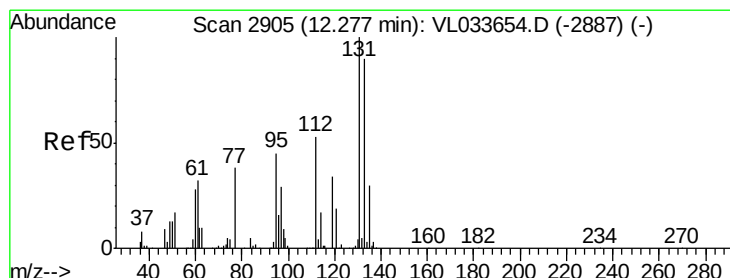
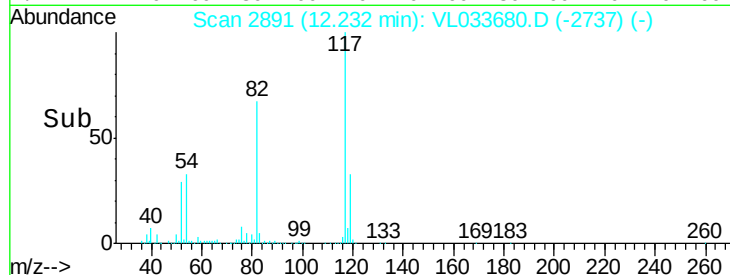
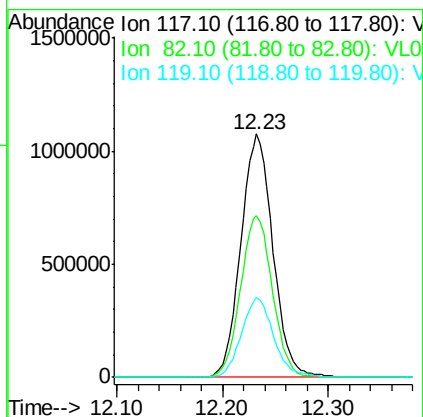
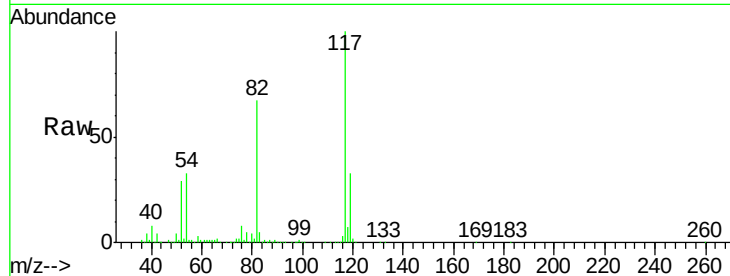




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL033680.D
Acq: 7 May 2019 13:39

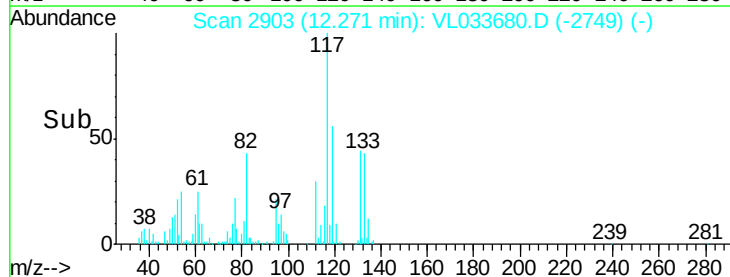
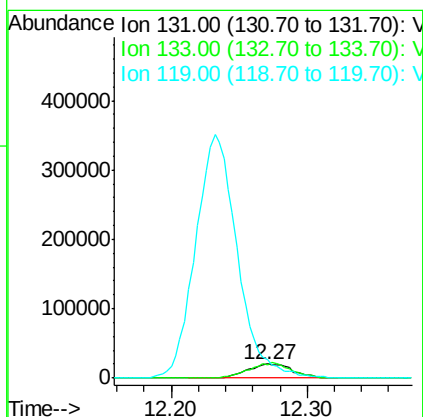
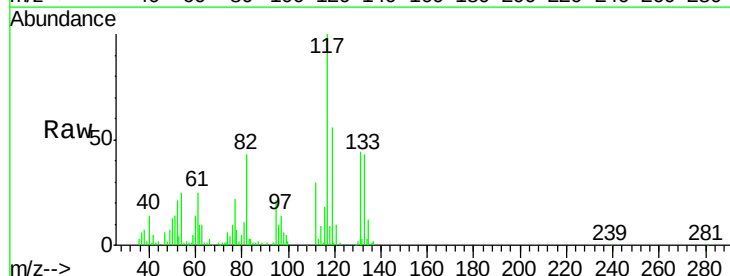
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT2-2019

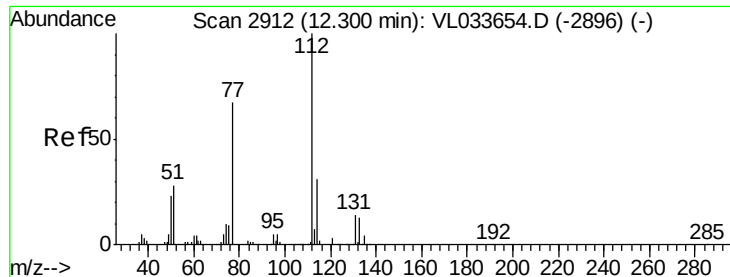
Tot Ion:117 Resp: 2271705
Ion Ratio Lower Upper
117 100
82 66.3 49.7 74.5
119 33.2 24.8 37.2



#56
1,1,1,2-Tetrachloroethane
Concen: 0.449 ppbv m
RT: 12.27 min Scan# 2903
Delta R.T. -0.01 min
Lab File: VL033680.D
Acq: 7 May 2019 13:39

Tgt Ion:131 Resp: 47070
Ion Ratio Lower Upper
131 100
133 0.0 76.0 114.0#
119 0.0 45.4 68.2#

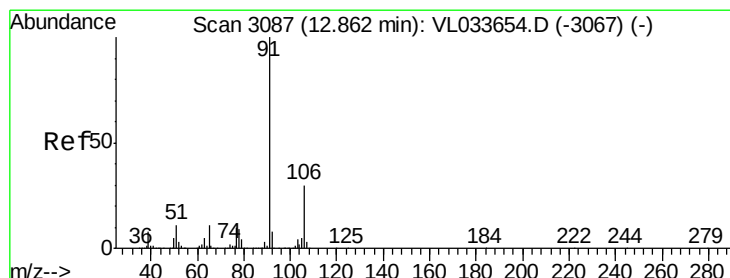
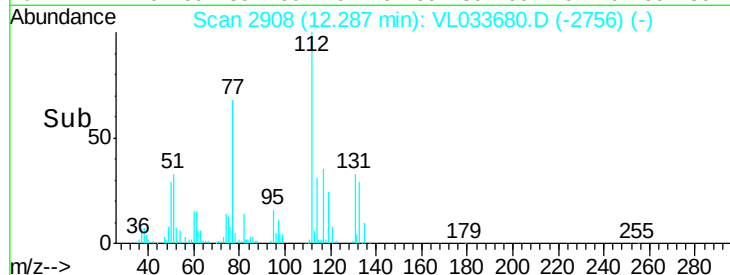
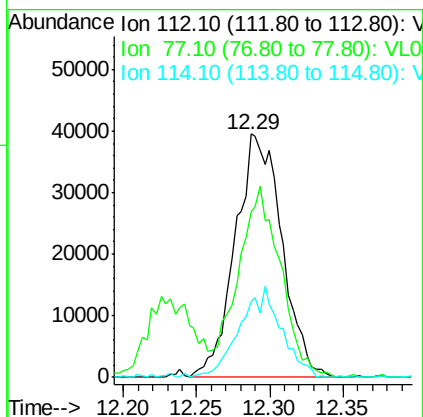
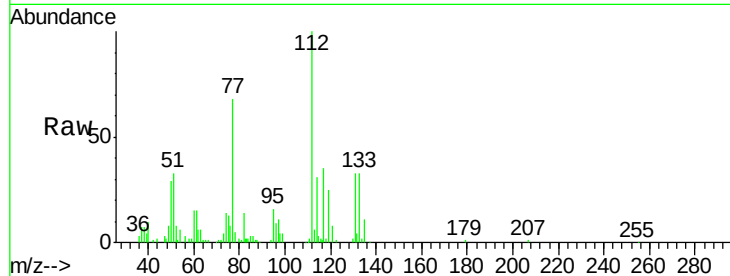




#57
Chlorobenzene
Concen: 0.469 ppbv m
RT: 12.29 min Scan# 2908
Delta R.T. -0.01 min
Lab File: VL033680.D
Acq: 7 May 2019 13:39

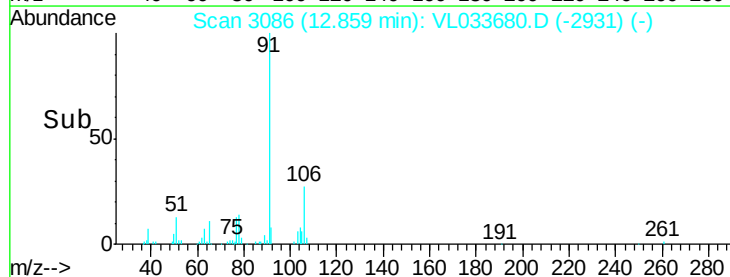
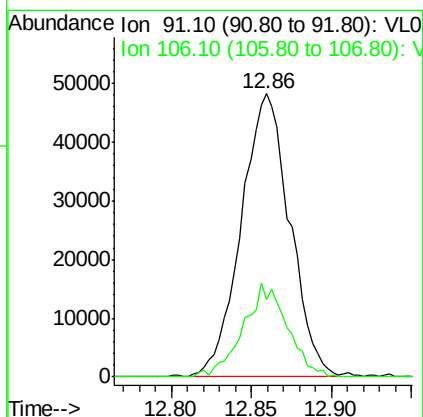
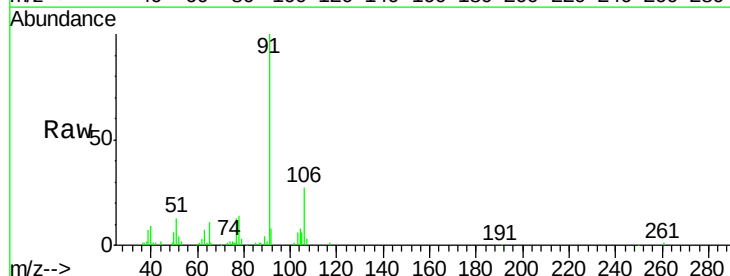
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT2-2019

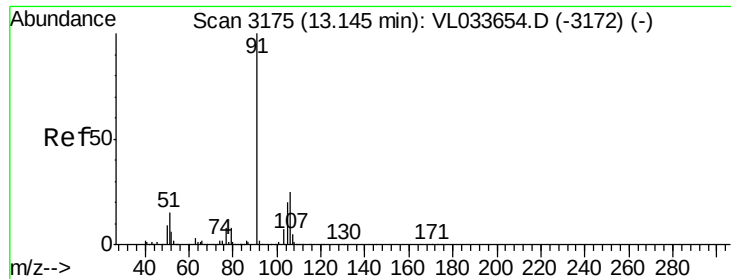
Tot Ion:112 Resp: 87449
Ion Ratio Lower Upper
112 100
77 67.9 54.4 81.6
114 31.0 28.2 34.4



#58
Ethyl Benzene
Concen: 0.339 ppbv
RT: 12.86 min Scan# 3086
Delta R.T. -0.00 min
Lab File: VL033680.D
Acq: 7 May 2019 13:39

Tgt Ion: 91 Resp: 100450
Ion Ratio Lower Upper
91 100
106 25.3 23.7 35.5

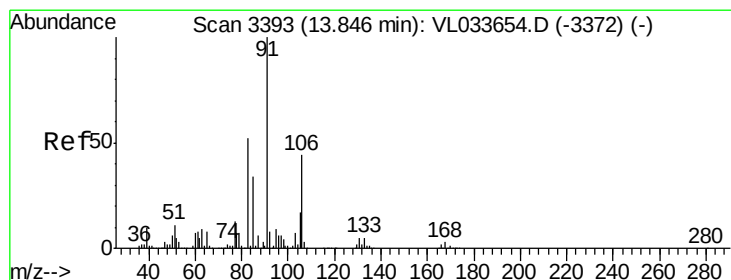
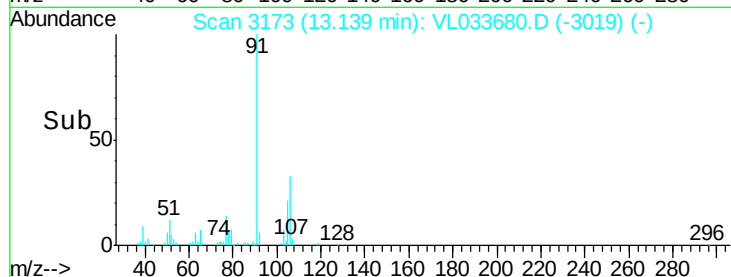
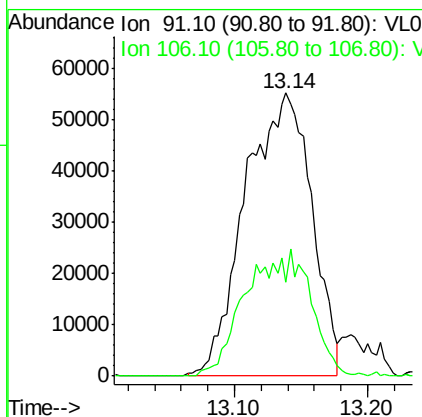
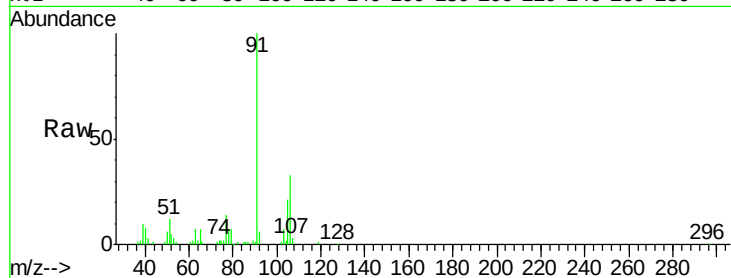




#59
m/p-Xylene
Concen: 0.735 ppbv m
RT: 13.14 min Scan# 3173
Delta R.T. -0.01 min
Lab File: VL033680.D
Acq: 7 May 2019 13:39

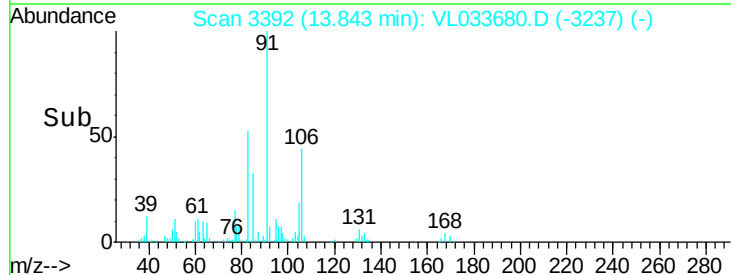
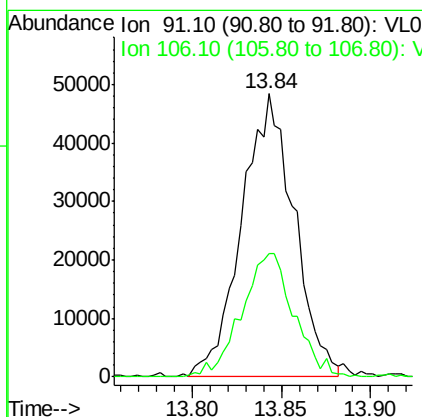
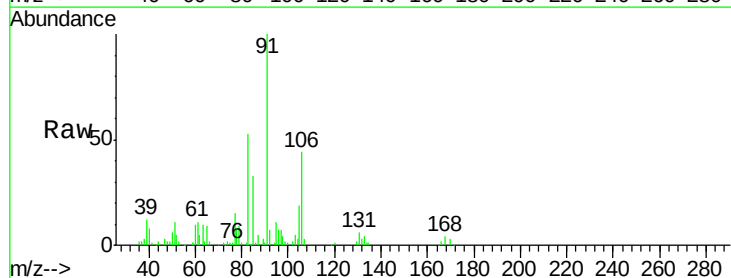
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT2-2019

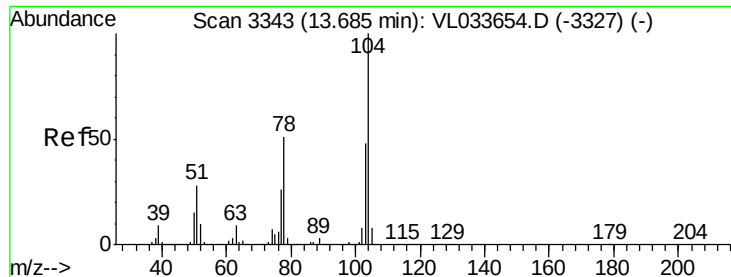
Tot Ion: 91 Resp: 191804
Ion Ratio Lower Upper
91 100
106 43.6 36.2 54.2



#60
o-Xylene
Concen: 0.375 ppbv
RT: 13.84 min Scan# 3392
Delta R.T. -0.00 min
Lab File: VL033680.D
Acq: 7 May 2019 13:39

Tgt Ion: 91 Resp: 99152
Ion Ratio Lower Upper
91 100
106 43.5 21.7 65.1





#61

Stvrene

Concen: 0.303 ppbv m

RT: 13.68 min Scan# 3340

Delta R.T. -0.01 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

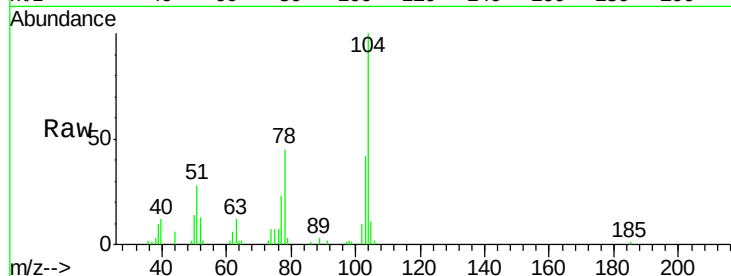
Tot Ion:104 Resp: 53243

Ion Ratio Lower Upper

104 100

78 54.4 43.0 64.6

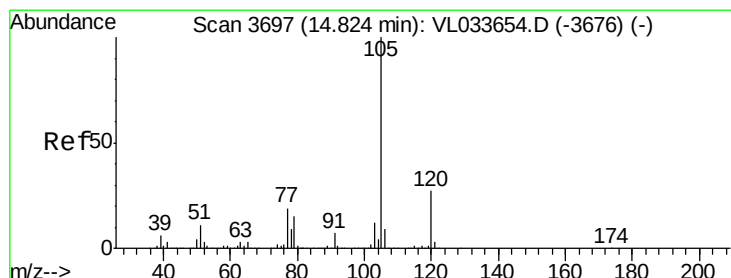
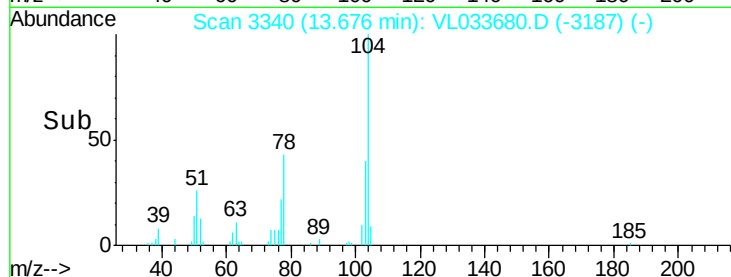
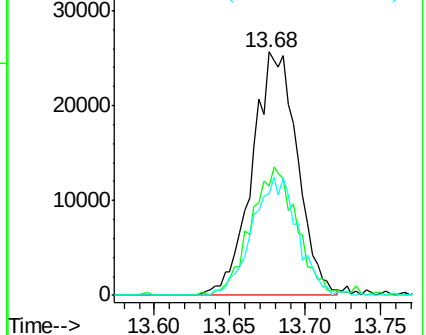
103 49.0 38.1 57.1



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.370 ppbv

RT: 14.82 min Scan# 3696

Delta R.T. -0.00 min

Lab File: VL033680.D

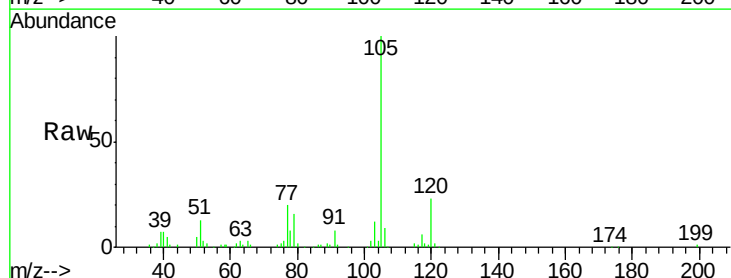
Acq: 7 May 2019 13:39

Tgt Ion:105 Resp: 133574

Ion Ratio Lower Upper

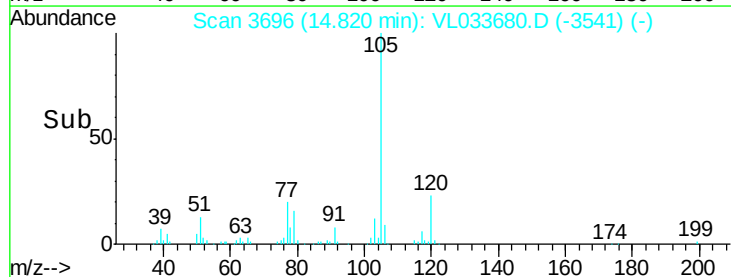
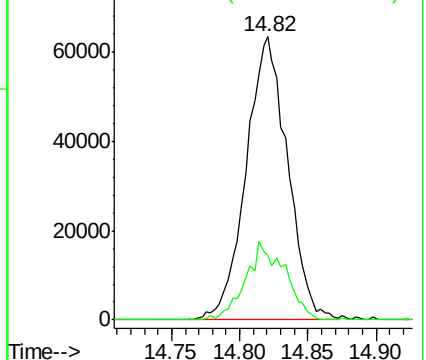
105 100

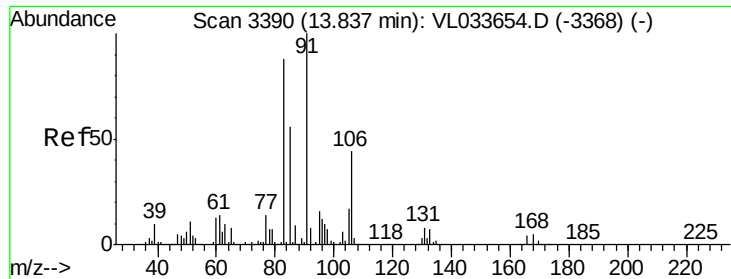
120 26.2 20.5 30.7



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: 0.439 ppbv

RT: 13.83 min Scan# 3387

Delta R.T. -0.01 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

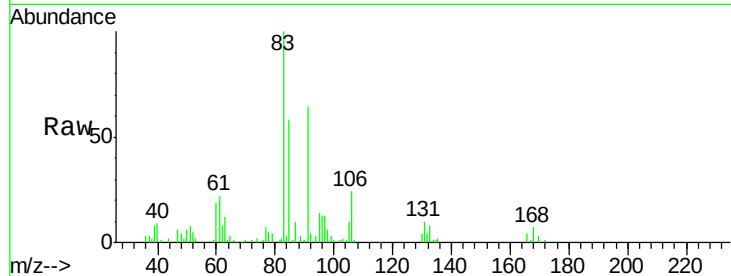
Tot Ion: 83 Resp: 84460

Ion Ratio Lower Upper

83 100

131 10.9 4.8 14.3

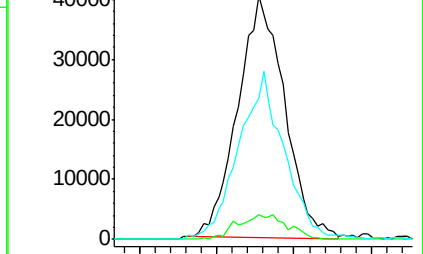
85 67.7 32.5 97.4



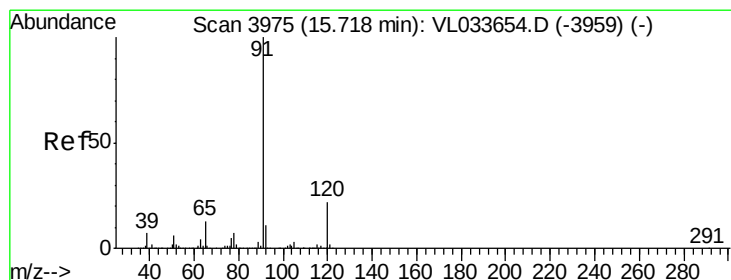
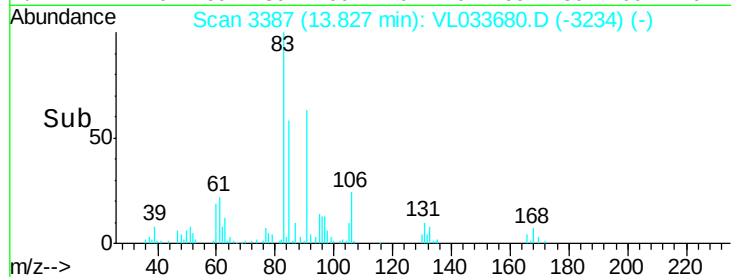
Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



Time-->



#64

n-propylbenzene

Concen: 0.340 ppbv

RT: 15.71 min Scan# 3974

Delta R.T. -0.00 min

Lab File: VL033680.D

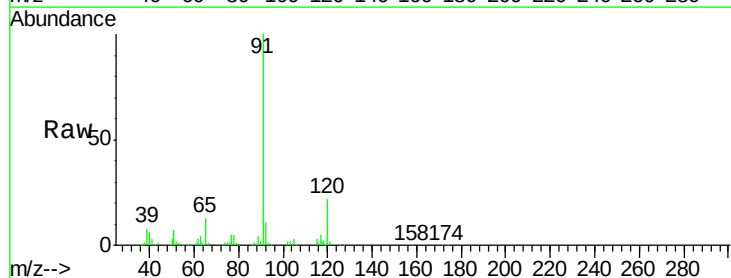
Acq: 7 May 2019 13:39

Tgt Ion:120 Resp: 31674

Ion Ratio Lower Upper

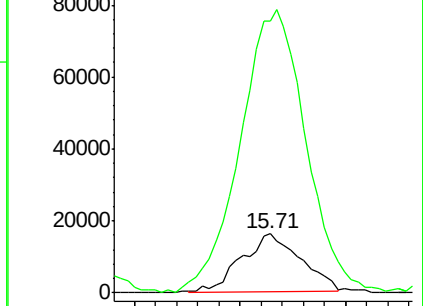
120 100

91 540.1 379.0 568.6

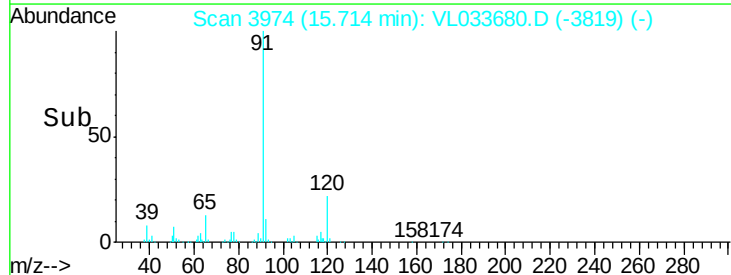


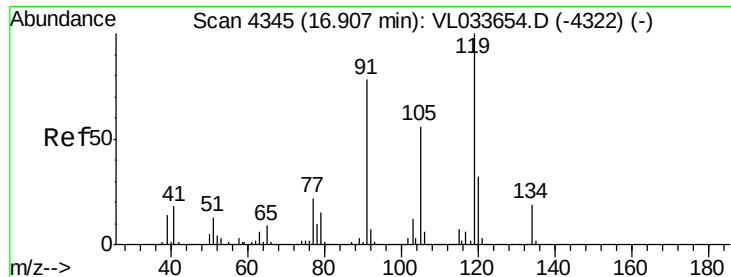
Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



Time-->





#65

tert-Butylbenzene

Concen: 0.350 ppbv

RT: 16.90 min Scan# 4344

Delta R.T. -0.00 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

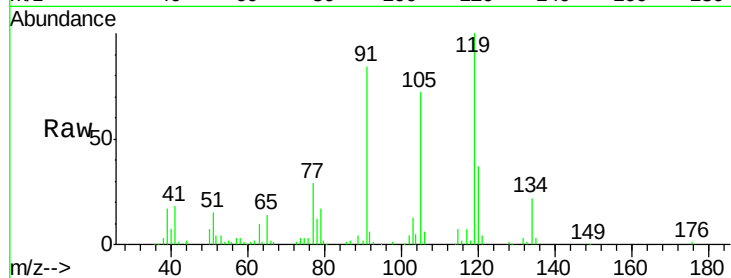
Tot Ion:119 Resp: 115642

Ion Ratio Lower Upper

119 100

91 92.5 65.9 98.9

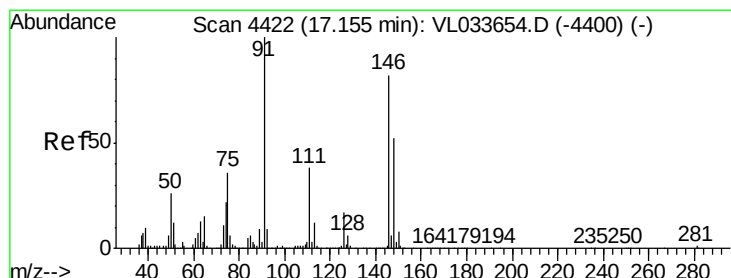
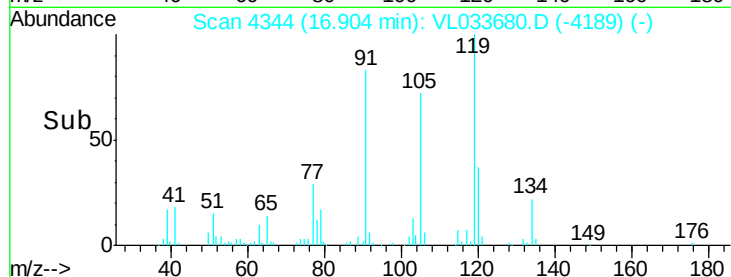
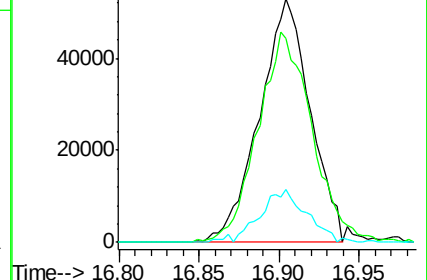
134 20.4 15.5 23.3



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 0.357 ppbv m

RT: 17.15 min Scan# 4421

Delta R.T. -0.00 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

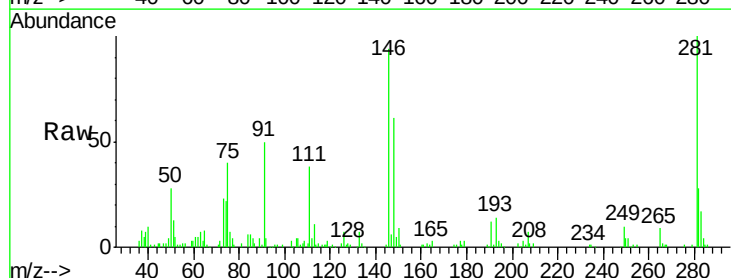
Tgt Ion: 91 Resp: 53759

Ion Ratio Lower Upper

91 100

126 0.0 13.4 20.2#

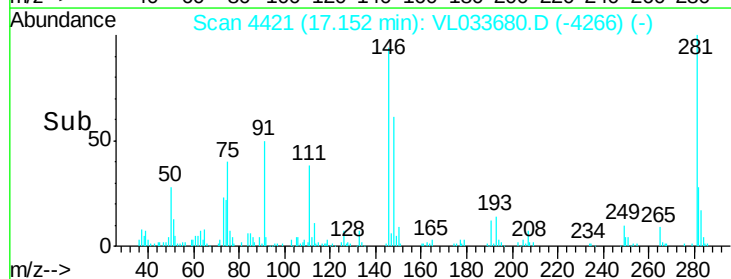
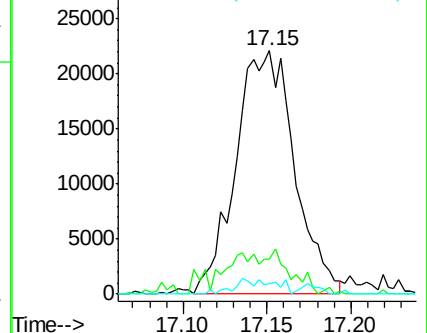
128 5.7 4.4 6.6

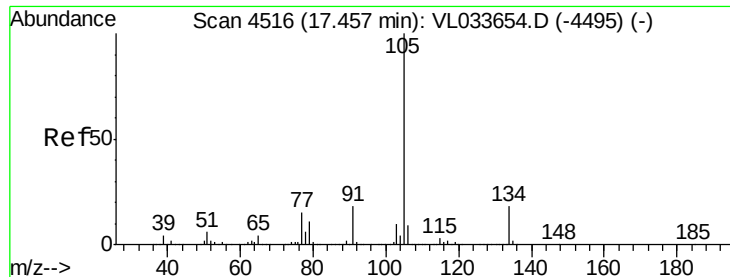


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V

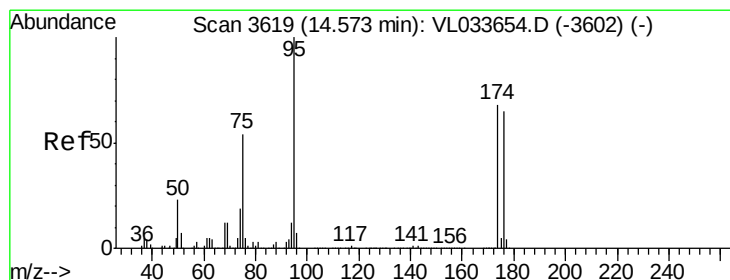
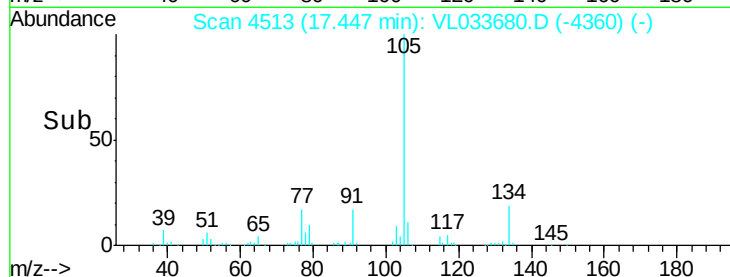
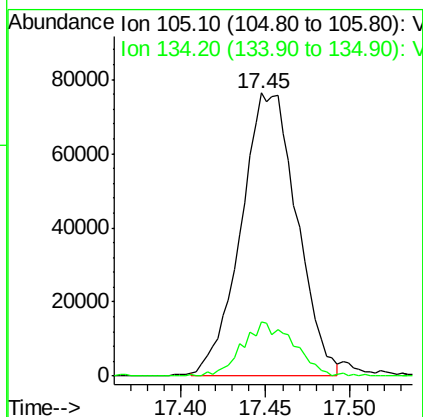
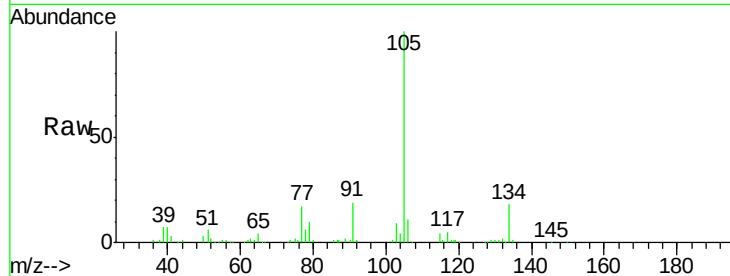




#67
 sec-Butylbenzene
 Concen: 0.380 ppbv m
 RT: 17.45 min Scan# 4513
 Delta R.T. -0.01 min
 Lab File: VL033680.D
 Acq: 7 May 2019 13:39

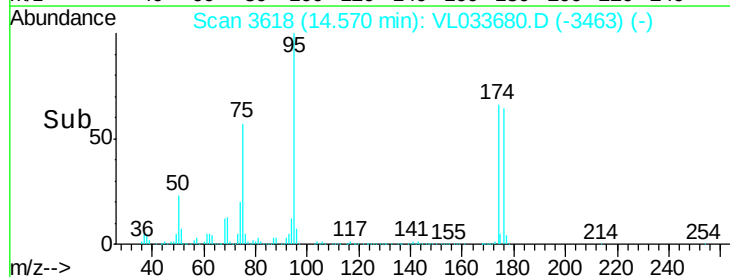
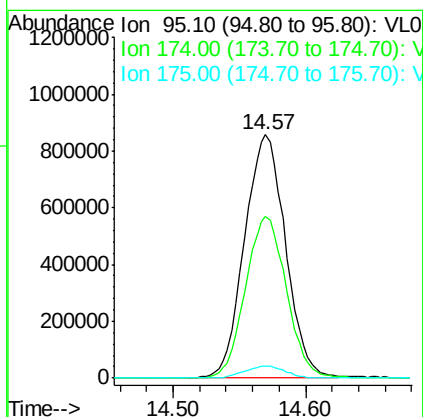
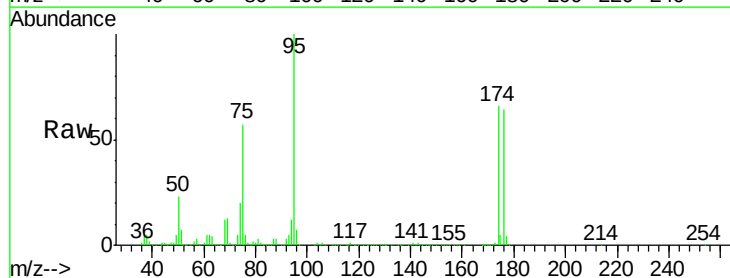
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

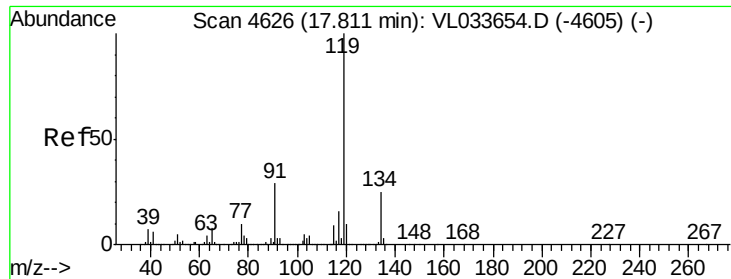
Tot Ion:105 Resp: 175444
 Ion Ratio Lower Upper
 105 100
 134 17.7 14.6 22.0



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.915 ppbv
 RT: 14.57 min Scan# 3618
 Delta R.T. -0.00 min
 Lab File: VL033680.D
 Acq: 7 May 2019 13:39

Tgt Ion: 95 Resp: 1846239
 Ion Ratio Lower Upper
 95 100
 174 66.4 54.0 81.0
 175 4.9 3.8 5.8

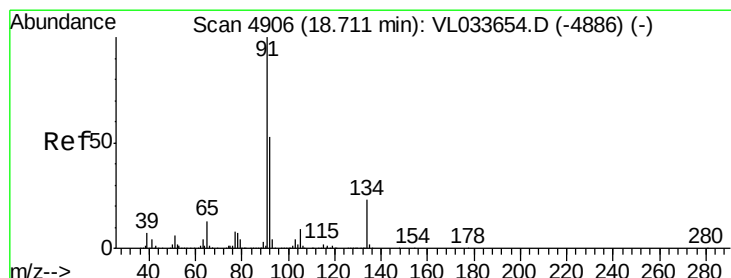
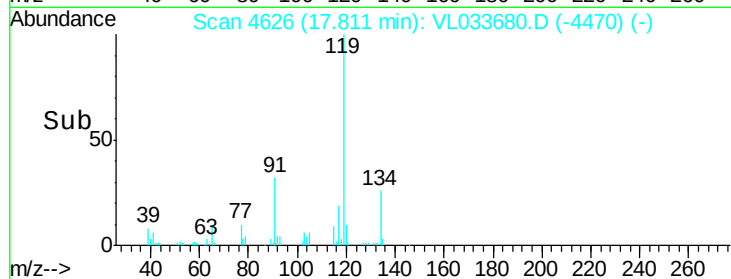
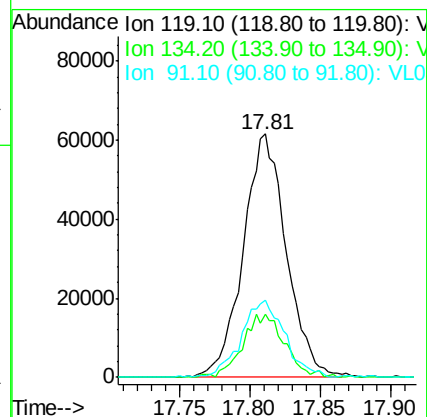
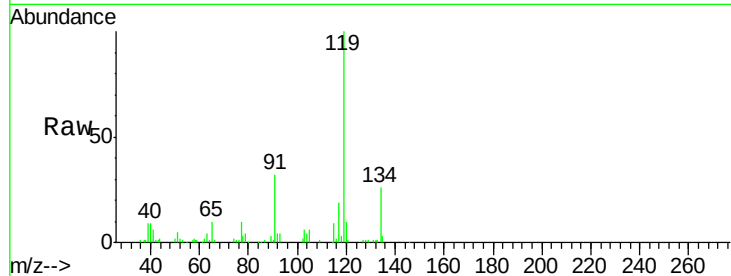




#69
 p-Isopropyltoluene
 Concen: 0.342 ppbv
 RT: 17.81 min Scan# 4626
 Delta R.T. 0.00 min
 Lab File: VL033680.D
 Acq: 7 May 2019 13:39

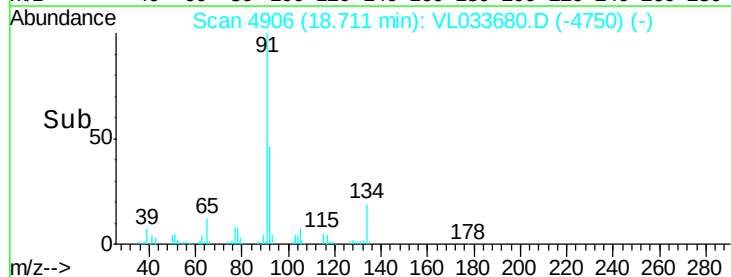
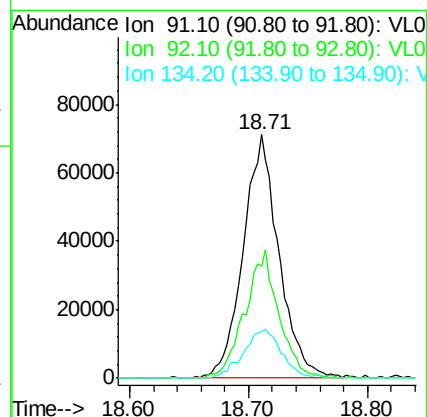
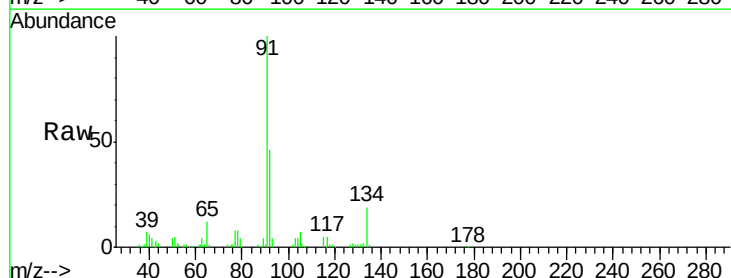
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

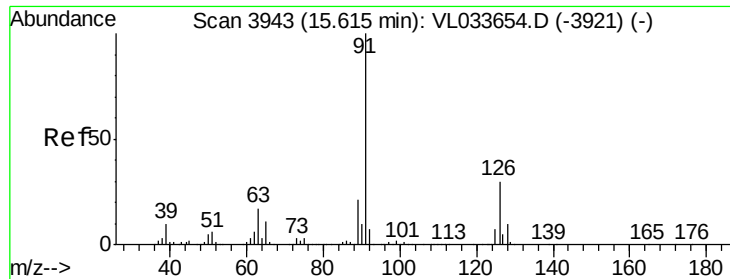
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.6	20.2	30.2
91	32.8	23.4	35.2



#70
 n-Butylbenzene
 Concen: 0.367 ppbv
 RT: 18.71 min Scan# 4906
 Delta R.T. 0.00 min
 Lab File: VL033680.D
 Acq: 7 May 2019 13:39

Tgt Ion	Ratio	Lower	Upper
91	100		
92	50.1	42.5	63.7
134	21.4	18.0	27.0





#71

2-Chlorotoluene

Concen: 0.347 ppbv

RT: 15.61 min Scan# 3943

Delta R.T. 0.00 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Instrument :

MSVOA_L

ClientSampleId :

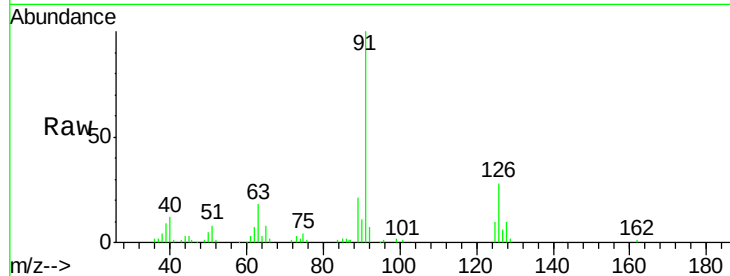
LOD-MDL-AIR-01-QT2-2019

Tot Ion: 91 Resp: 92306

Ion Ratio Lower Upper

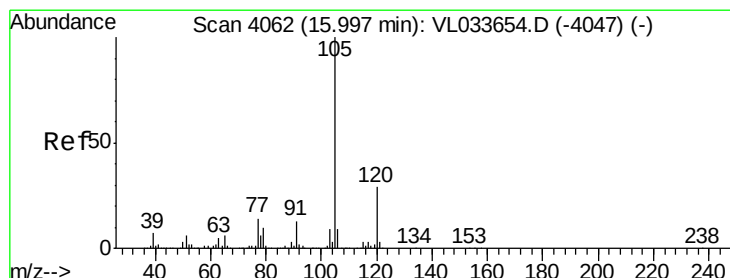
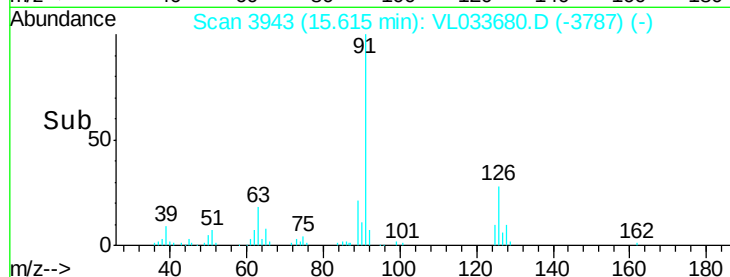
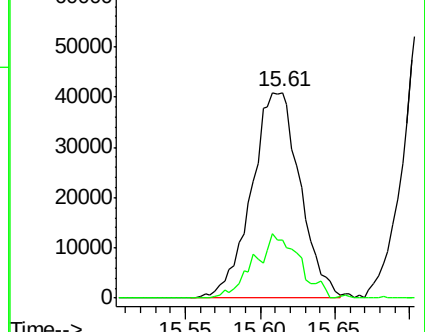
91 100

126 29.5 12.0 47.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.334 ppbv

RT: 16.00 min Scan# 4062

Delta R.T. 0.00 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Tgt Ion:105 Resp: 103553

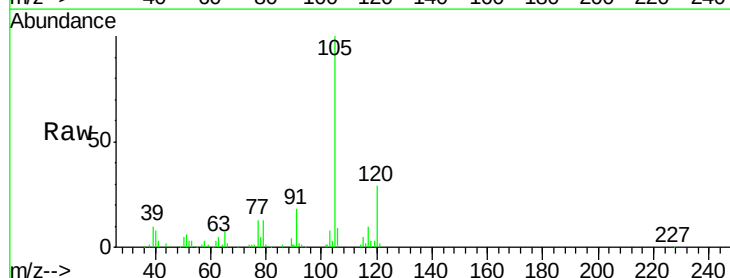
Ion Ratio Lower Upper

105 100

120 28.8 23.0 34.6

91 16.6 10.5 15.7#

77 15.4 11.4 17.2

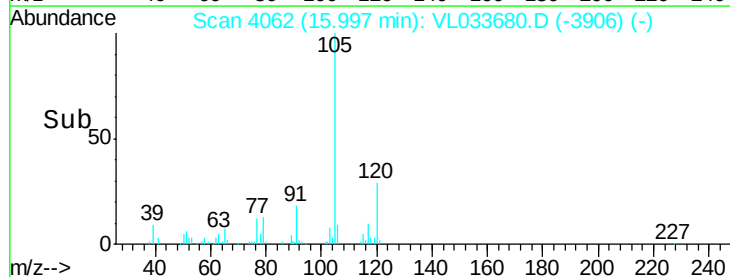
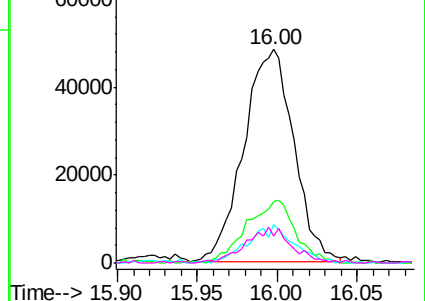


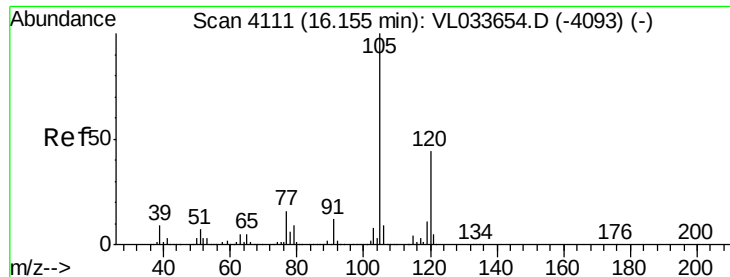
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 0.350 ppbv

RT: 16.15 min Scan# 4111

Delta R.T. 0.00 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Instrument :

MSVOA_L

ClientSampleId :

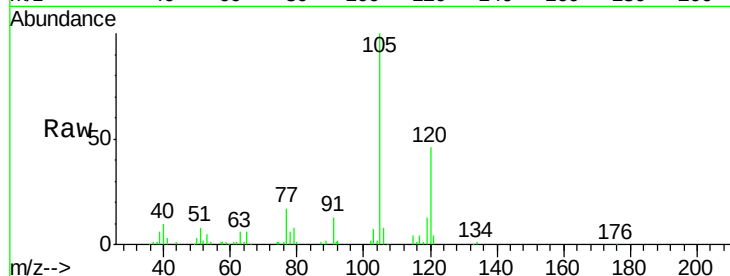
LOD-MDL-AIR-01-QT2-2019

Tot Ion:105 Resp: 105070

Ion Ratio Lower Upper

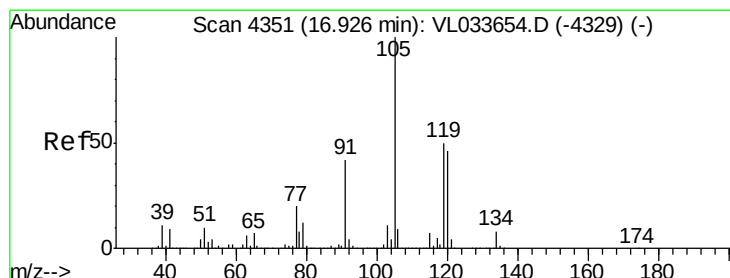
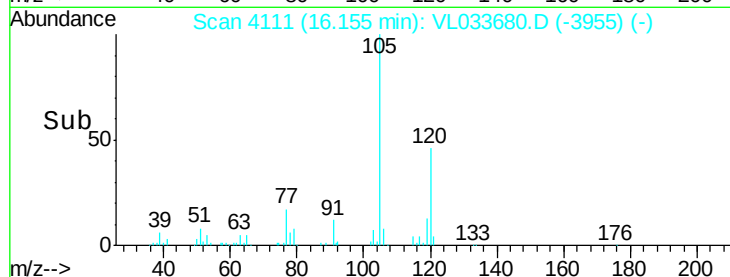
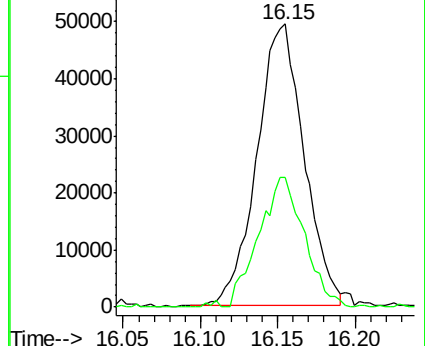
105 100

120 45.9 35.5 53.3



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.391 ppbv m

RT: 16.92 min Scan# 4349

Delta R.T. -0.01 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Tgt Ion:105 Resp: 130278

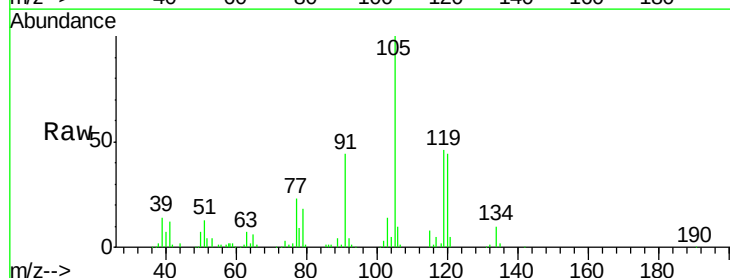
Ion Ratio Lower Upper

105 100

120 43.6 36.5 54.7

91 43.7 33.7 50.5

77 22.9 16.3 24.5

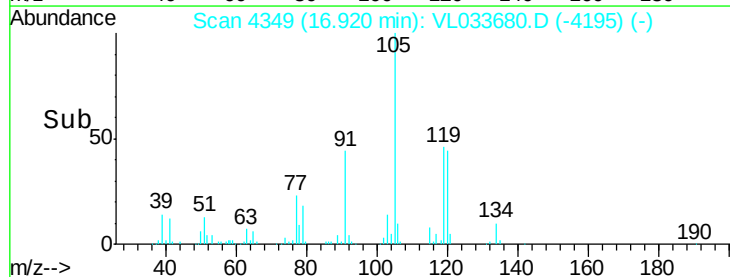
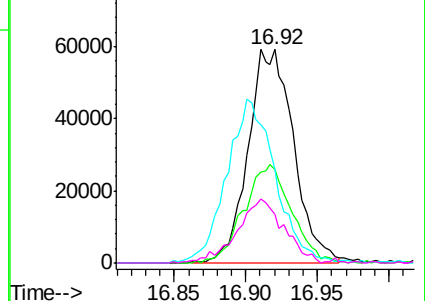


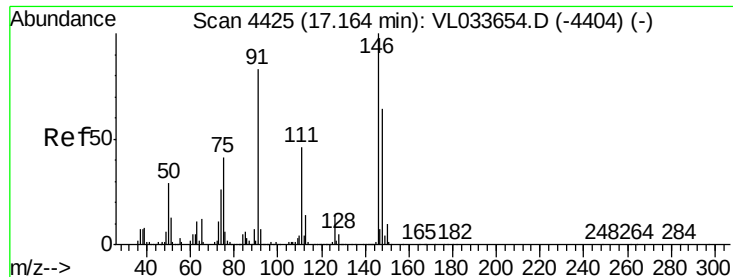
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): V

Ion 77.10 (76.80 to 77.80): V

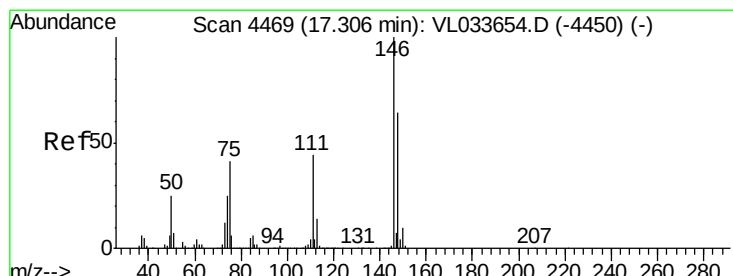
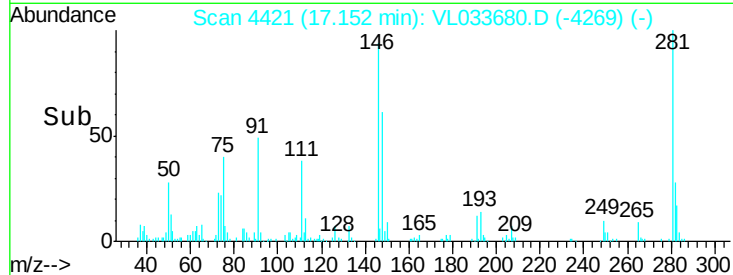
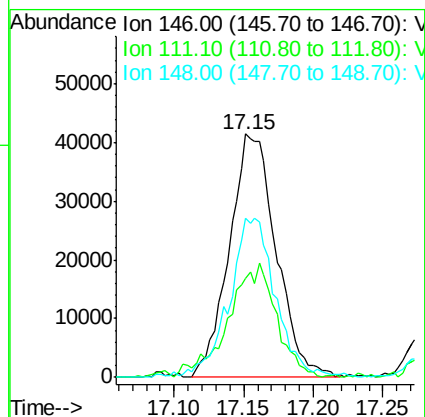
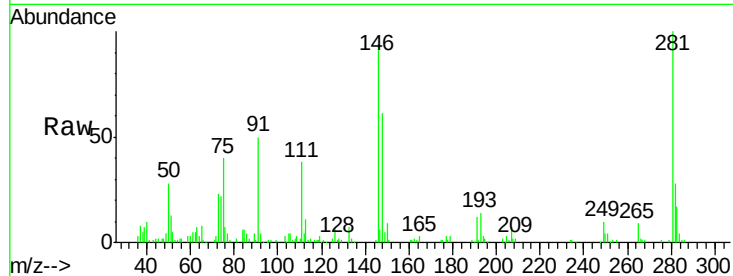




#75
 1,3-Dichlorobenzene
 Concen: 0.481 ppbv m
 RT: 17.15 min Scan# 4421
 Delta R.T. -0.01 min
 Lab File: VL033680.D
 Acq: 7 May 2019 13:39

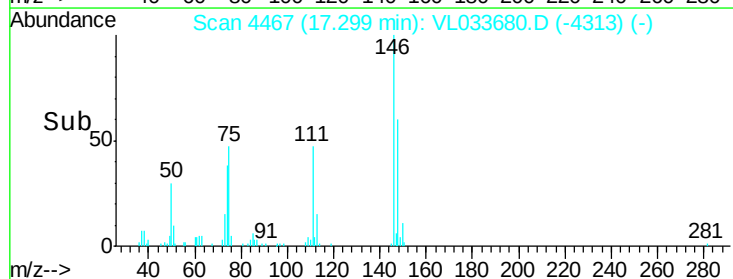
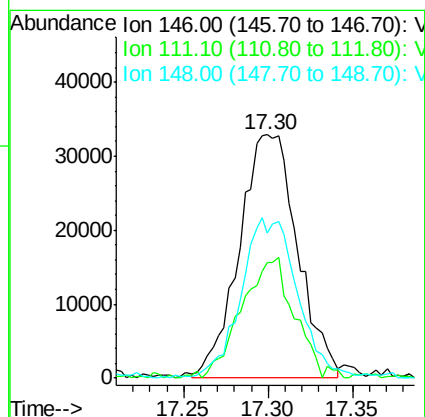
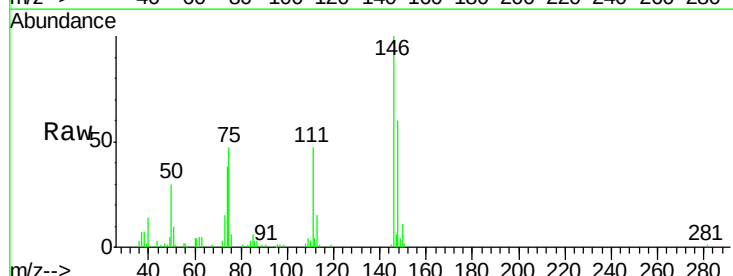
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

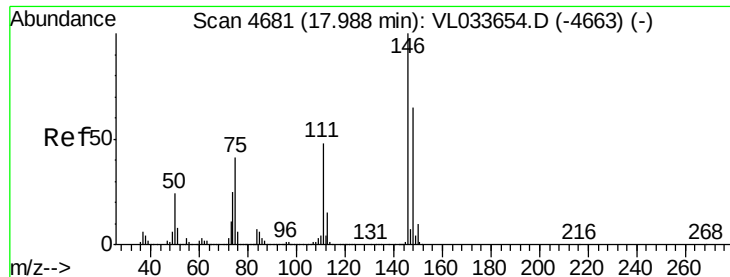
Tot Ion:146 Resp: 96941
 Ion Ratio Lower Upper
 146 100
 111 48.9 22.6 67.7
 148 65.1 31.8 95.4



#76
 1,4-Dichlorobenzene
 Concen: 0.413 ppbv m
 RT: 17.30 min Scan# 4467
 Delta R.T. -0.01 min
 Lab File: VL033680.D
 Acq: 7 May 2019 13:39

Tgt Ion:146 Resp: 78894
 Ion Ratio Lower Upper
 146 100
 111 0.0 22.0 66.0#
 148 64.3 32.1 96.5

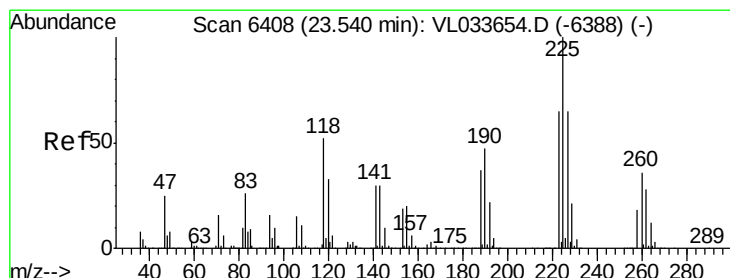
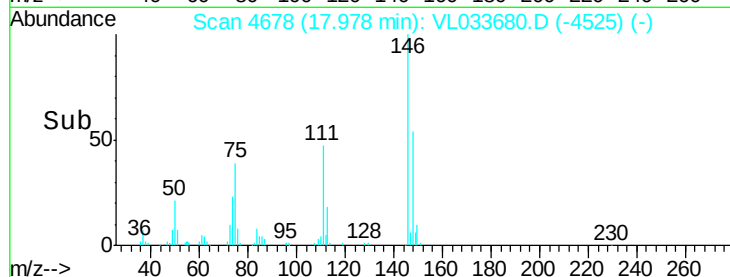
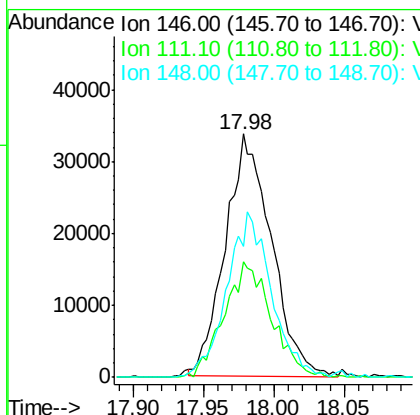
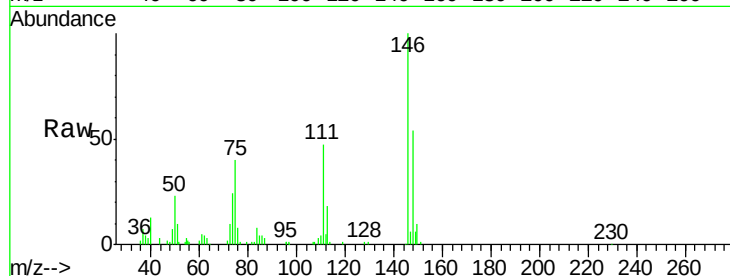




#77
 1,2-Dichlorobenzene
 Concen: 0.410 ppbv
 RT: 17.98 min Scan# 4678
 Delta R.T. -0.01 min
 Lab File: VL033680.D
 Acq: 7 May 2019 13:39

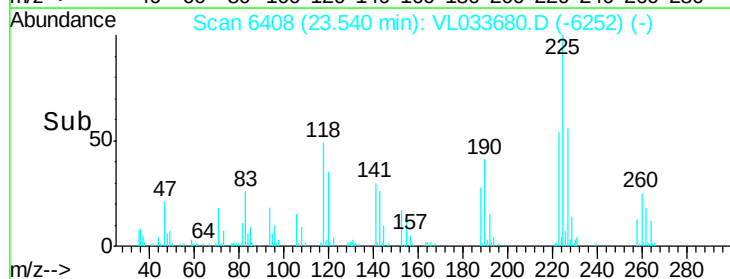
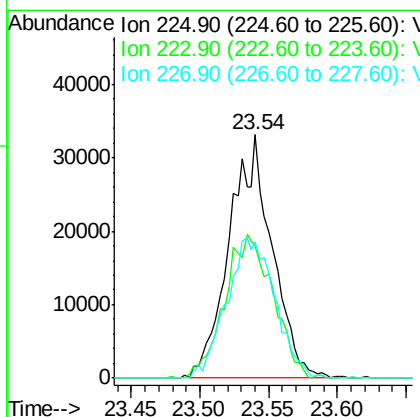
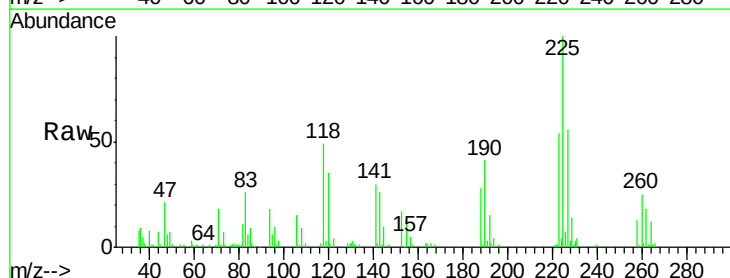
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

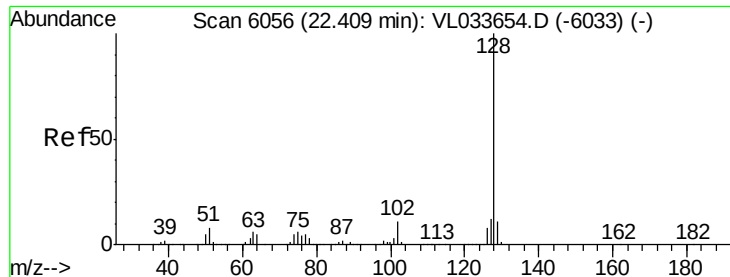
Tot Ion:146 Resp: 76604
 Ion Ratio Lower Upper
 146 100
 111 49.3 23.4 70.0
 148 66.0 31.9 95.9



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.485 ppbv m
 RT: 23.54 min Scan# 6408
 Delta R.T. 0.00 min
 Lab File: VL033680.D
 Acq: 7 May 2019 13:39

Tgt Ion:225 Resp: 71730
 Ion Ratio Lower Upper
 225 100
 223 66.6 50.7 76.1
 227 64.9 51.4 77.2





#79

Naphthalene

Concen: 0.328 ppbv

RT: 22.41 min Scan# 6056

Delta R.T. 0.00 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

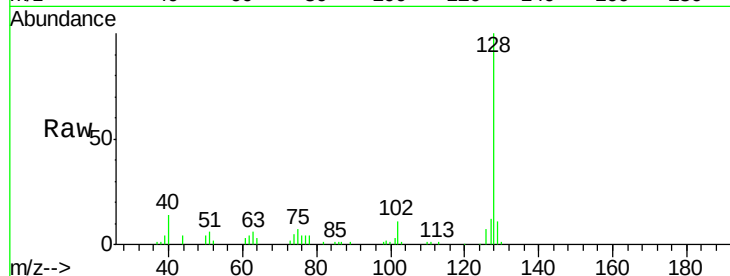
Tot Ion:128 Resp: 99803

Ion Ratio Lower Upper

128 100

127 11.7 9.8 14.8

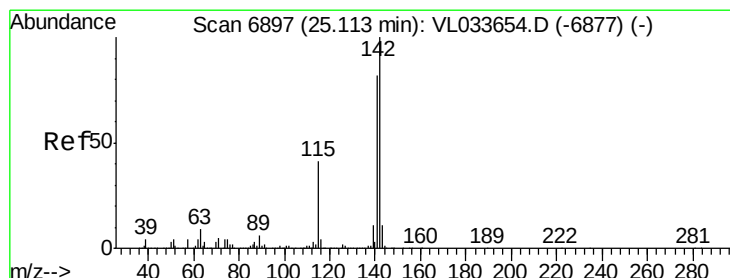
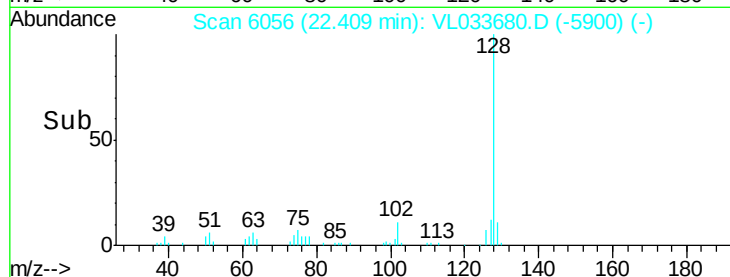
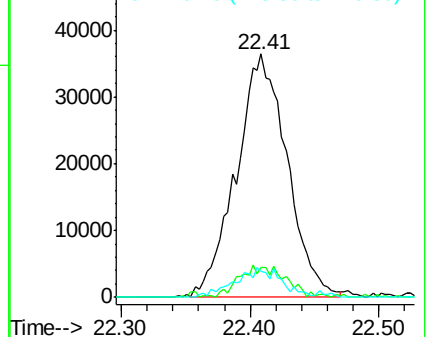
129 11.7 8.8 13.2



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.230 ppbv

RT: 25.11 min Scan# 6895

Delta R.T. -0.01 min

Lab File: VL033680.D

Acq: 7 May 2019 13:39

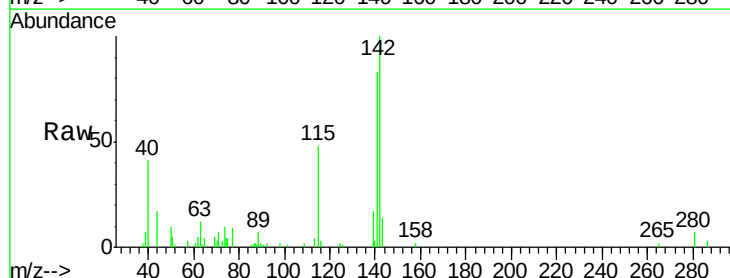
Tgt Ion:142 Resp: 26434

Ion Ratio Lower Upper

142 100

141 89.7 67.9 101.9

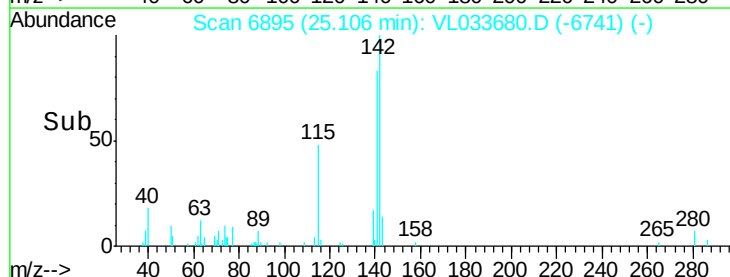
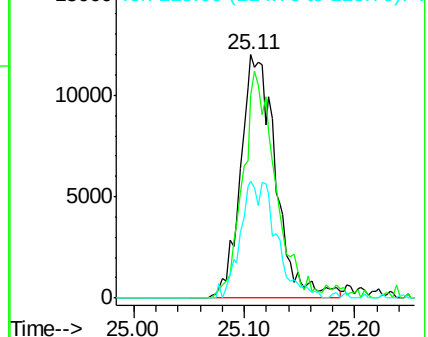
115 50.0 34.2 51.4

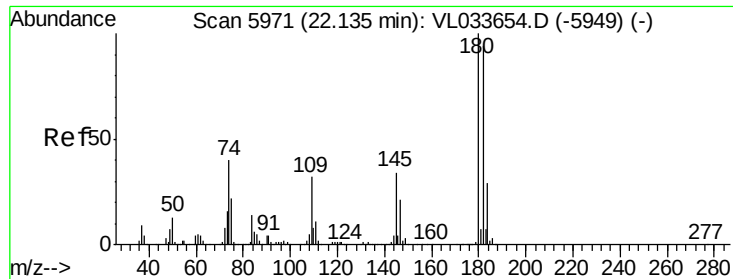


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 0.394 ppbv m
 RT: 22.13 min Scan# 5969
 Delta R.T. -0.01 min
 Lab File: VL033680.D
 Acq: 7 May 2019 13:39

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

Tot Ion:180 Resp: 69686
 Ion Ratio Lower Upper
 180 100
 182 0.0 77.4 116.0#
 184 30.5 24.6 36.8

