

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL102418\
 Data File : VL032696.D
 Acq On : 24 Oct 2018 20:30
 Operator : SY/AP
 Sample : J5164-13 0.03 LOD
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT4-2018 0.03 LOD

Quant Time: Oct 25 05:27:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 25 05:15:43 2018
 QLast Update : Thu Oct 25 05:15:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1491720	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3480431	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3441464	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2623425	10.24	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.09	85	68180	0.449	ppbv	93
3) Chlorodifluoromethane	3.03	51	41788	0.358	ppbv	98
4) Chloromethane	3.18	50	23067	0.354	ppbv	95
5) Vinyl Chloride	3.30	62	21277	0.301	ppbv	97
6) Bromomethane	3.53	94	13141	0.298	ppbv	81
7) Chloroethane	3.62	64	8269	0.318	ppbv	97
8) Dichlorotetrafluoroethane	3.23	85	56446	0.352	ppbv	95
9) Propene	3.05	41	14819	0.309	ppbv	98
10) Heptane	8.26	43	26664	0.144	ppbv #	52
11) Trichlorofluoromethane	4.02	101	60635	0.305	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.56	101	50389	0.305	ppbv	93
13) Ethanol	3.67	45	2132	0.155	ppbv #	36
14) Bromoethene	3.80	108	16907	0.303	ppbv	95
15) Acetone	3.93	43	55475	0.403	ppbv	96
16) 1,3-Butadiene	3.37	39	8636	0.170	ppbv #	1
17) tert-Butyl alcohol	4.37	59	701	0.017	ppbv #	100
18) 1,1-Dichloroethene	4.37	96	25917	0.357	ppbv	86
19) Isopropyl Alcohol	4.06	45	11703	0.119	ppbv #	93
20) Methylene Chloride	4.42	84	29226	0.418	ppbv	85
21) Allyl Chloride	4.49	41	36355	0.321	ppbv	99
22) trans-1,2-Dichloroethene	4.98	96	23771	0.320	ppbv	96
23) Vinyl Acetate	5.18	43	63382	0.260	ppbv #	92
24) 1,1-Dichloroethane	5.10	63	62142	0.324	ppbv	96
25) Ethyl Acetate	5.79	43	97222	0.307	ppbv	99
26) Hexane	5.79	57	42000	0.280	ppbv #	83
27) Carbon Disulfide	4.63	76	52710	0.290	ppbv #	83
28) Methyl tert-Butyl Ether	5.14	73	30915	0.143	ppbv #	53
29) Chloroform	5.86	83	81023	0.338	ppbv	93
30) Cyclohexane	7.26	84	7818	0.066	ppbv #	1
31) cis-1,2-Dichloroethene	5.65	61	31785	0.228	ppbv #	89
32) 1,1,1-Trichloroethane	6.64	97	75096	0.308	ppbv	99
34) 2-Butanone	5.35	43	22682	0.122	ppbv #	42
35) Carbon Tetrachloride	7.14	117	79298	0.321	ppbv	90
36) Benzene	7.02	78	71012	0.251	ppbv #	94
37) 1,2-Dichloroethane	6.43	62	54397	0.314	ppbv #	96
38) Trichloroethene	7.97	130	27242	0.260	ppbv	97
39) 1,2-Dichloropropane	7.75	63	30488	0.279	ppbv	95
40) 1,4-Dioxane	7.95	88	106	0.003	ppbv #	1
41) Tetrahydrofuran	6.19	42	10695	0.103	ppbv #	31
42) Bromodichloromethane	7.93	83	78518	0.323	ppbv	99
43) Methyl Methacrylate	8.14	69	4062	0.039	ppbv #	1

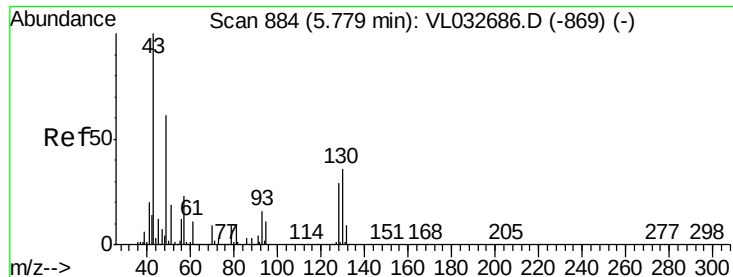
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL102418\
 Data File : VL032696.D
 Acq On : 24 Oct 2018 20:30
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 MDL-AIR-03-QT4-2018 0.03 LOD

Quant Time: Oct 25 05:27:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 25 05:15:43 2018
 QLast Update : Thu Oct 25 05:15:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.01	57	114691	0.238	ppbv #	84
45) t-1,3-Dichloropropene	9.43	75	13899	0.100	ppbv	94
46) cis-1,3-Dichloropropene	8.84	75	12239	0.077	ppbv #	78
47) 1,1,2-Trichloroethane	9.63	97	20383	0.158	ppbv #	84
48) Dibromochloromethane	10.46	129	58537	0.272	ppbv	99
49) Bromoform	13.21	173	24573	0.145	ppbv #	26
50) 4-Methyl-2-Pentanone	8.91	43	69177	0.250	ppbv	94
51) 2-Hexanone	10.32	43	22720	0.111	ppbv #	75
52) Tetrachloroethene	11.39	164	23198	0.235	ppbv	88
53) Toluene	9.95	91	25790	0.080	ppbv #	20
54) 1,2-Dibromoethane	10.76	107	16883	0.096	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.30	131	53353	0.355	ppbv #	1
57) Chlorobenzene	12.32	112	39457	0.156	ppbv	98
58) Ethyl Benzene	12.88	91	43823	0.110	ppbv	96
59) m/p-Xylene	13.16	91	90002	0.253	ppbv #	48
60) o-Xylene	13.87	91	73230	0.213	ppbv	97
61) Styrene	13.70	104	33241	0.144	ppbv	86
62) Isopropylbenzene	14.84	105	119061	0.245	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	84434	0.314	ppbv	94
64) n-propylbenzene	15.74	120	21148	0.175	ppbv #	38
65) tert-Butylbenzene	16.92	119	26813	0.065	ppbv #	5
66) Benzyl Chloride	17.18	91	19054	0.089	ppbv #	30
67) sec-Butylbenzene	17.47	105	84122	0.143	ppbv #	67
69) p-Isopropyltoluene	17.83	119	57551	0.123	ppbv #	53
70) n-Butylbenzene	18.73	91	49501	0.103	ppbv #	33
71) 2-Chlorotoluene	15.63	91	36092	0.104	ppbv #	45
72) 4-Ethyltoluene	16.01	105	67540	0.185	ppbv #	91
73) 1,3,5-Trimethylbenzene	16.17	105	72994	0.205	ppbv	99
74) 1,2,4-Trimethylbenzene	16.95	105	90000	0.237	ppbv #	87
75) 1,3-Dichlorobenzene	17.18	146	50788	0.232	ppbv #	55
76) 1,4-Dichlorobenzene	17.33	146	2971	0.015	ppbv #	1
77) 1,2-Dichlorobenzene	18.00	146	35223	0.170	ppbv #	47
78) Hexachloro-1,3-Butadiene	23.56	225	34616	0.353	ppbv #	52
79) Naphthalene	22.43	128	5545	0.023	ppbv #	72
80) Naphthalene,2-methyl-	25.16	142	1375	0.024	ppbv	97
81) 1,2,4-Trichlorobenzene	22.15	180	6471	0.053	ppbv #	6

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.01 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2018 0.03 LOD

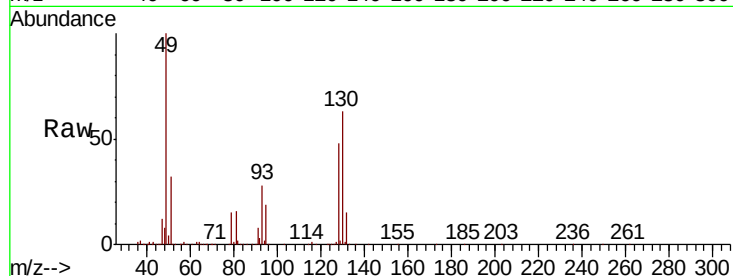
Tgt Ion: 49 Resp: 1491720

Ion Ratio Lower Upper

49 100

128 48.8 22.3 66.8

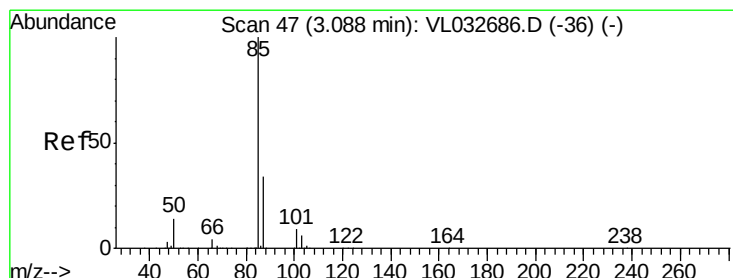
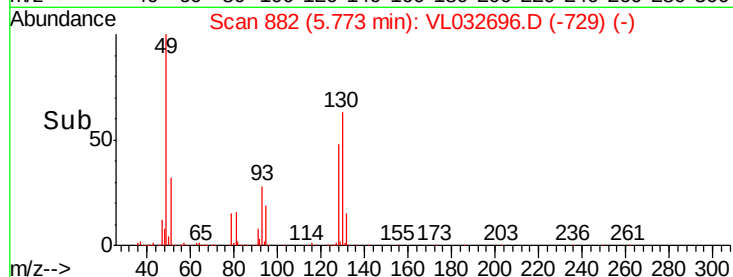
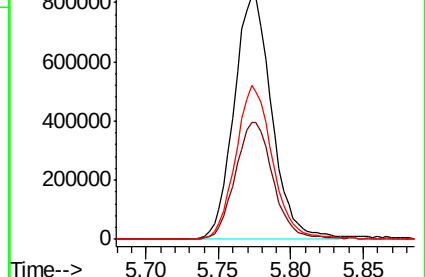
130 62.5 28.4 85.3



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: 0.449 ppbv

RT: 3.09 min Scan# 47

Delta R.T. 0.00 min

Lab File: VL032696.D

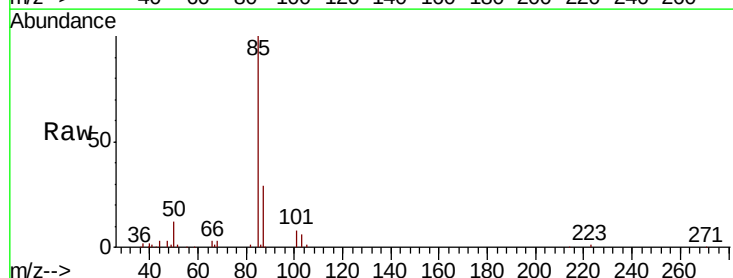
Acq: 24 Oct 2018 20:30

Tgt Ion: 85 Resp: 68180

Ion Ratio Lower Upper

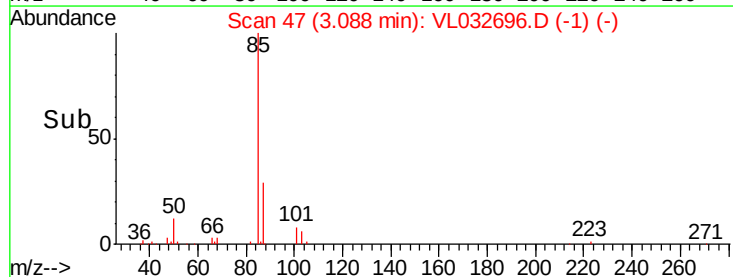
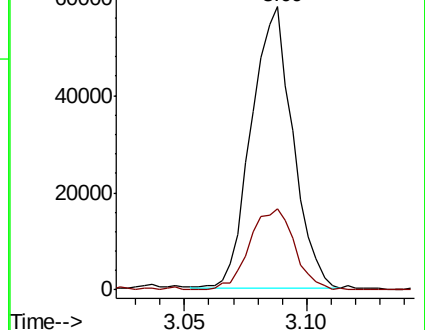
85 100

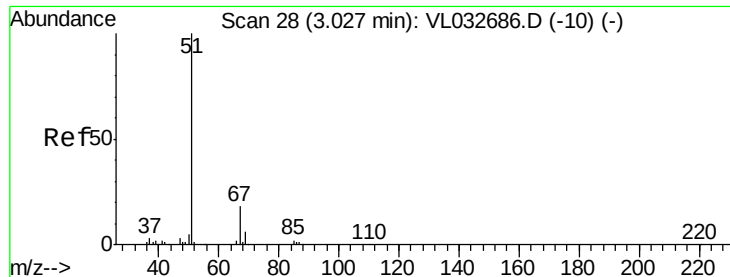
87 28.8 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

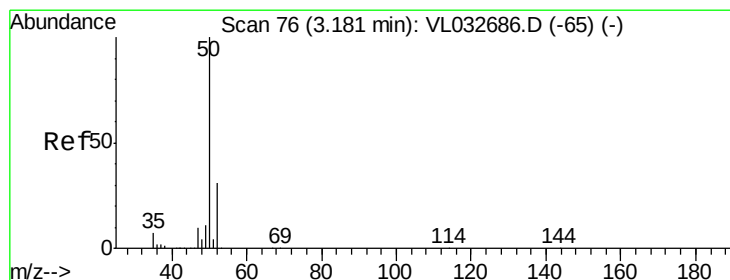
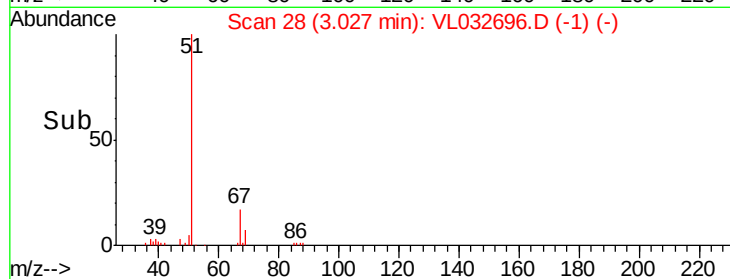
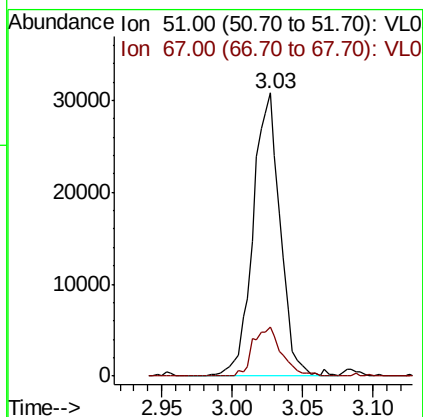
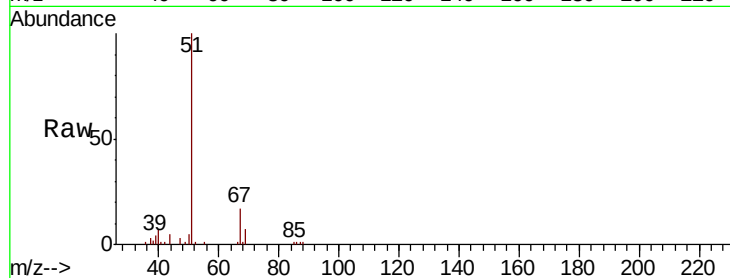




#3
 Chlorodifluoromethane
 Concen: 0.358 ppbv
 RT: 3.03 min Scan# 28
 Delta R.T. 0.00 min
 Lab File: VL032696.D
 Acq: 24 Oct 2018 20:30

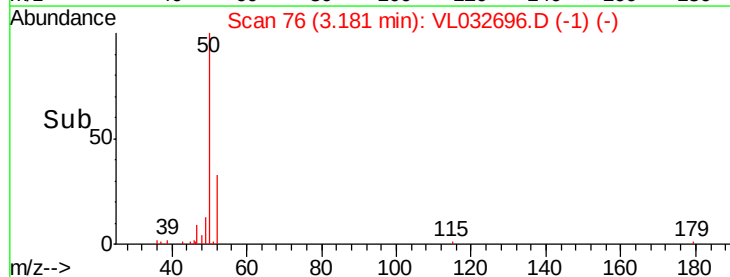
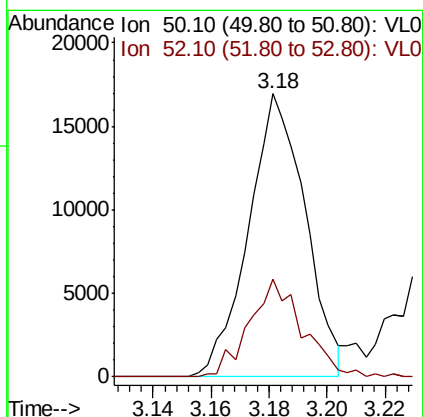
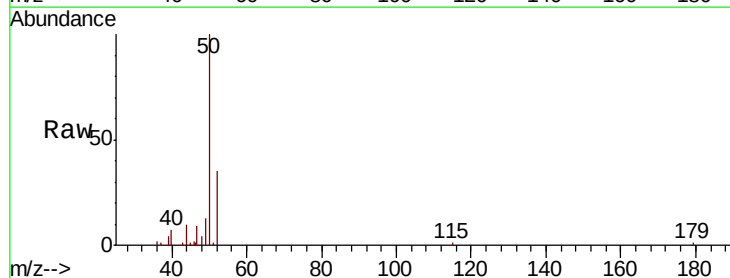
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT4-2018 0.03 LOD

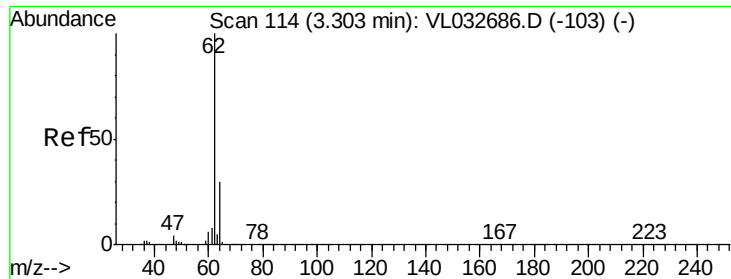
Tgt Ion: 51 Resp: 41788
 Ion Ratio Lower Upper
 51 100
 67 18.1 15.2 22.8



#4
 Chloromethane
 Concen: 0.354 ppbv
 RT: 3.18 min Scan# 76
 Delta R.T. 0.00 min
 Lab File: VL032696.D
 Acq: 24 Oct 2018 20:30

Tgt Ion: 50 Resp: 23067
 Ion Ratio Lower Upper
 50 100
 52 35.0 25.9 38.9





#5

Vinyl Chloride

Concen: 0.301 ppbv

RT: 3.30 min Scan# 114

Delta R.T. 0.00 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Instrument :

MSVOA_L

ClientSampleId :

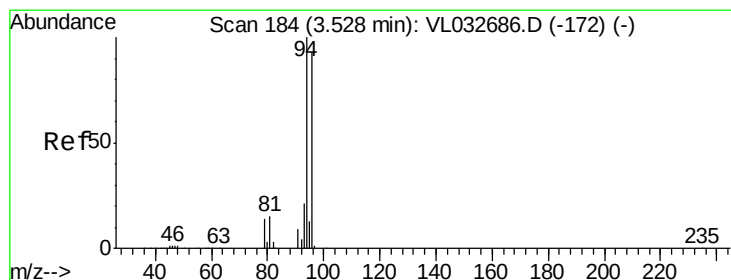
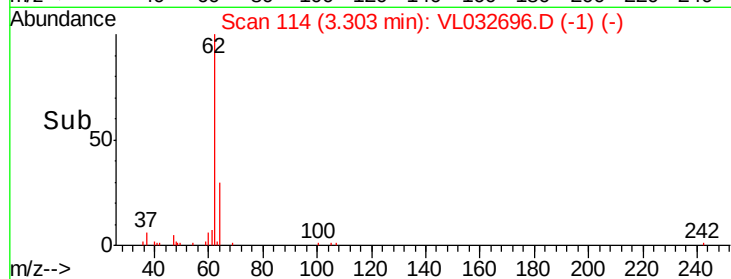
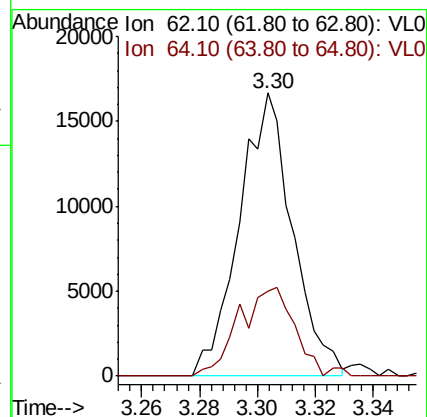
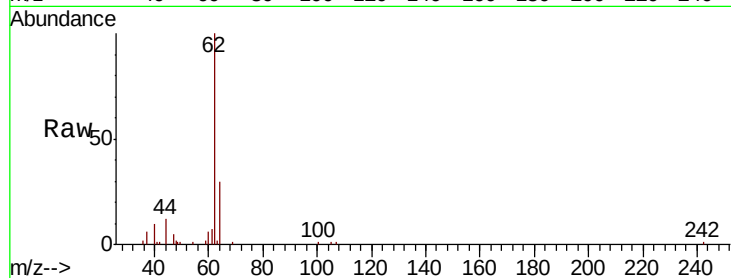
MDL-AIR-03-QT4-2018 0.03 LOD

Tgt Ion: 62 Resp: 21277

Ion Ratio Lower Upper

62 100

64 30.0 25.5 38.3



#6

Bromomethane

Concen: 0.298 ppbv

RT: 3.53 min Scan# 184

Delta R.T. 0.01 min

Lab File: VL032696.D

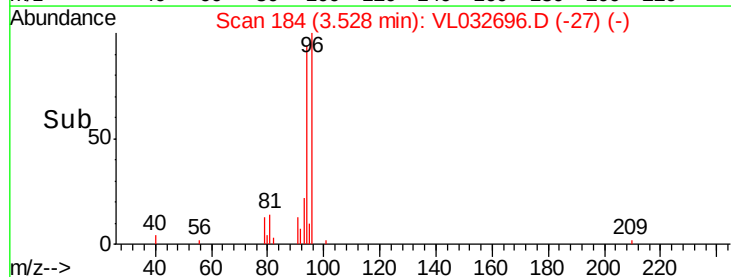
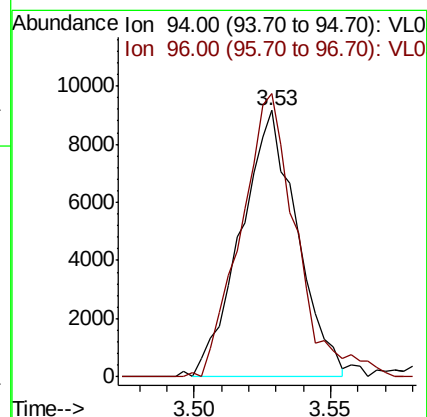
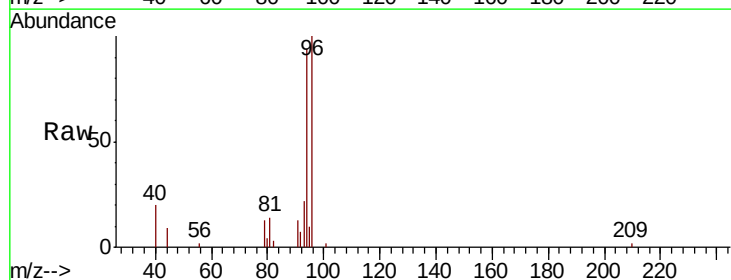
Acq: 24 Oct 2018 20:30

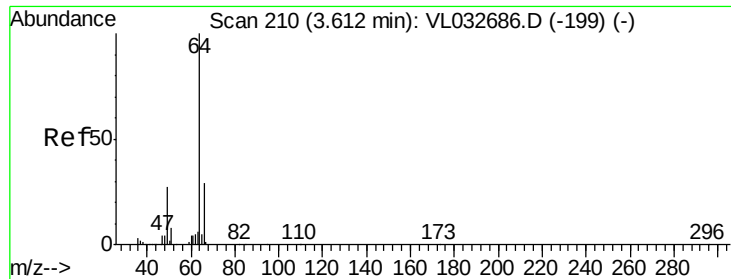
Tgt Ion: 94 Resp: 13141

Ion Ratio Lower Upper

94 100

96 104.7 69.8 104.8





#7

Chloroethane

Concen: 0.318 ppbv

RT: 3.62 min Scan# 211

Delta R.T. 0.01 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Instrument :

MSVOA_L

ClientSampleId :

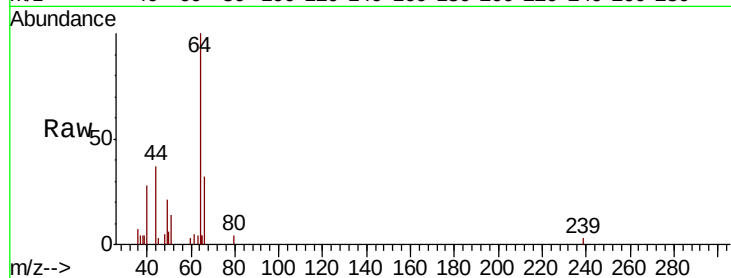
MDL-AIR-03-QT4-2018 0.03 LOD

Tgt Ion: 64 Resp: 8269

Ion Ratio Lower Upper

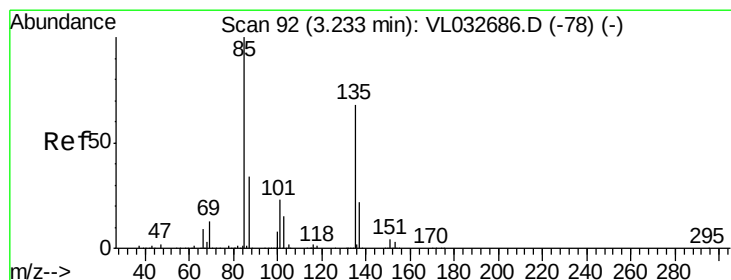
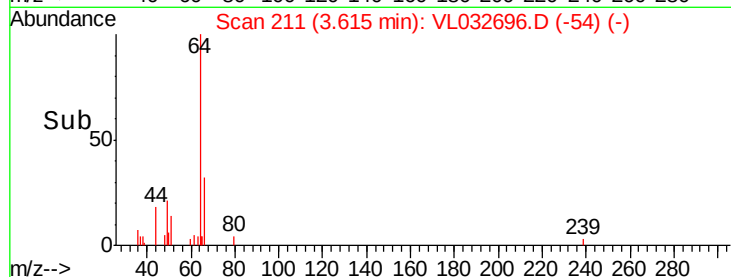
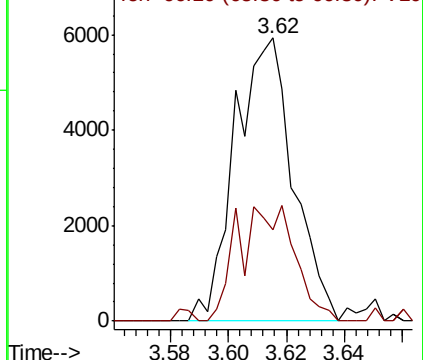
64 100

66 32.1 24.4 36.6



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.352 ppbv

RT: 3.23 min Scan# 91

Delta R.T. -0.00 min

Lab File: VL032696.D

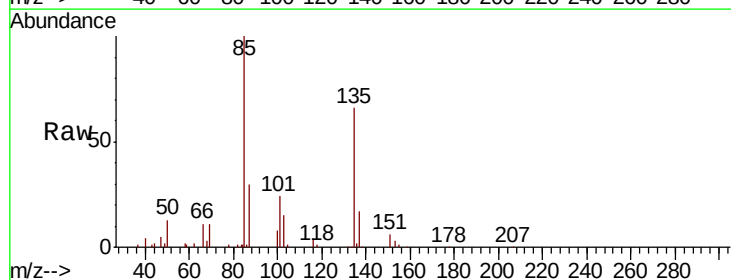
Acq: 24 Oct 2018 20:30

Tgt Ion: 85 Resp: 56446

Ion Ratio Lower Upper

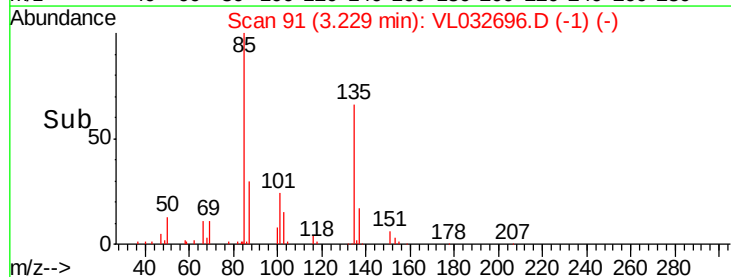
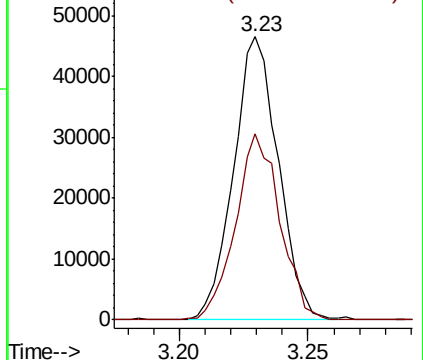
85 100

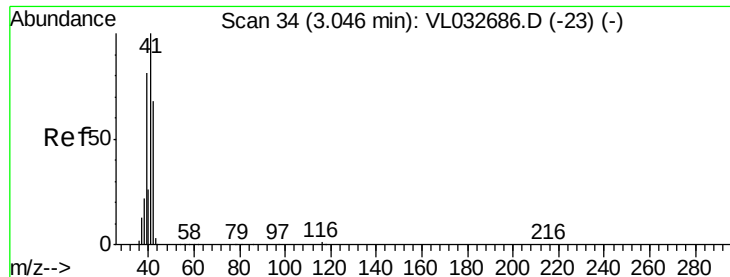
135 65.4 49.0 73.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.309 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.01 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Instrument :

MSVOA_L

ClientSampleId :

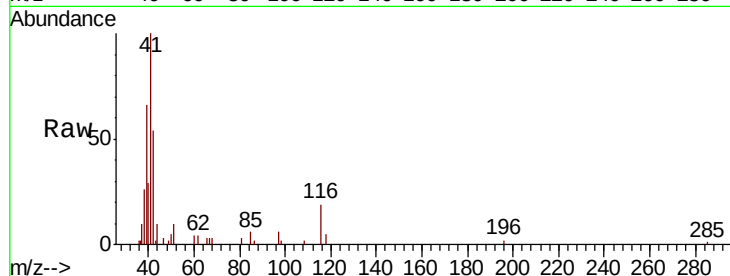
MDL-AIR-03-QT4-2018 0.03 LOD

Tgt Ion: 41 Resp: 14819

Ion Ratio Lower Upper

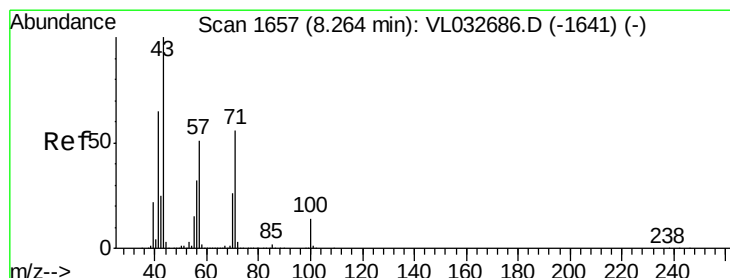
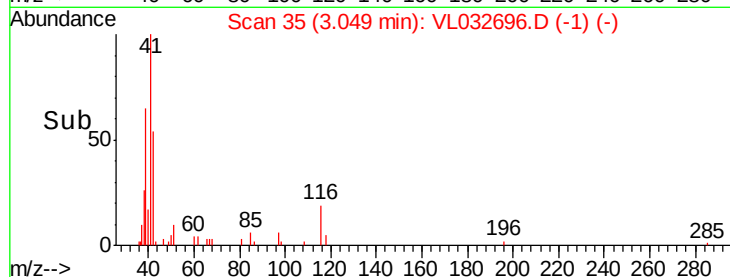
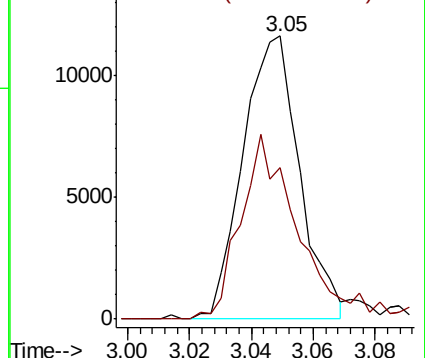
41 100

42 67.2 55.4 83.0



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.144 ppbv

RT: 8.26 min Scan# 1656

Delta R.T. -0.00 min

Lab File: VL032696.D

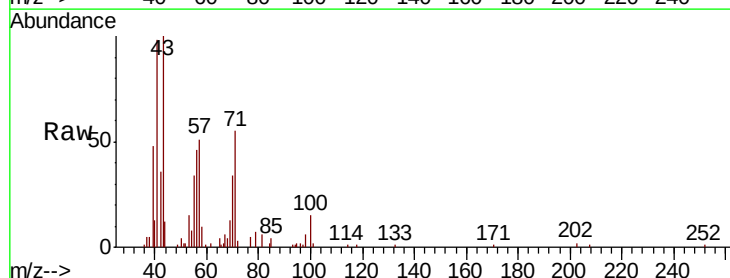
Acq: 24 Oct 2018 20:30

Tgt Ion: 43 Resp: 26664

Ion Ratio Lower Upper

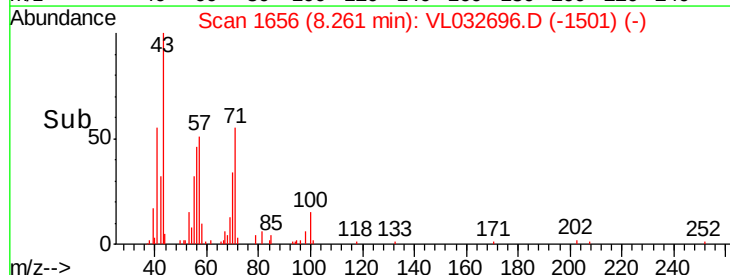
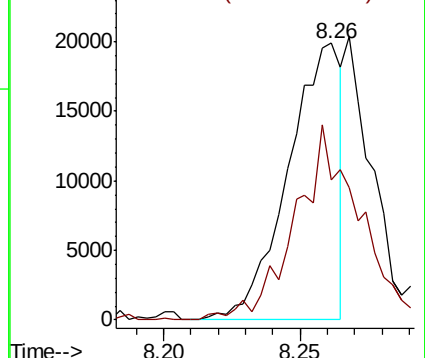
43 100

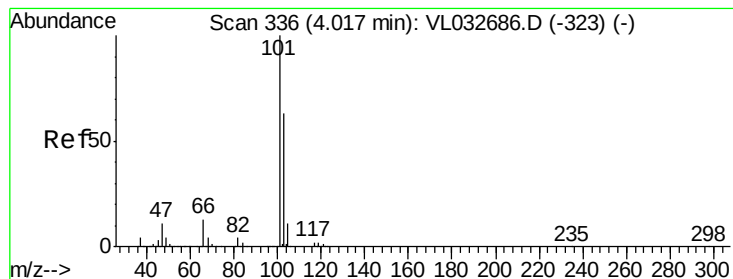
57 85.8 41.5 62.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 0.305 ppbv

RT: 4.02 min Scan# 337

Delta R.T. 0.01 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Instrument :

MSVOA_L

ClientSampleId :

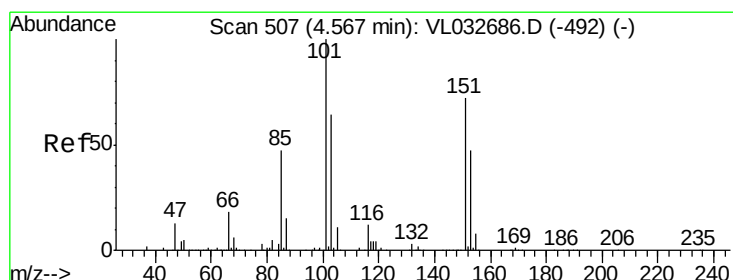
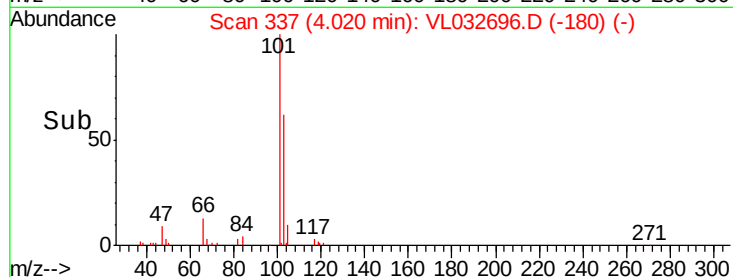
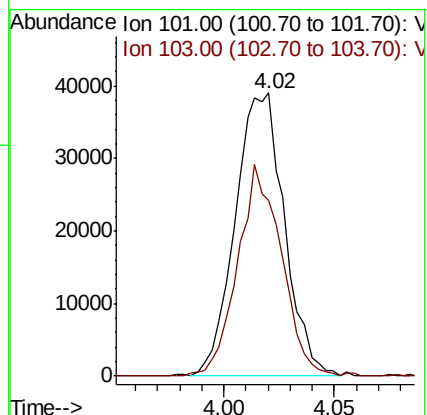
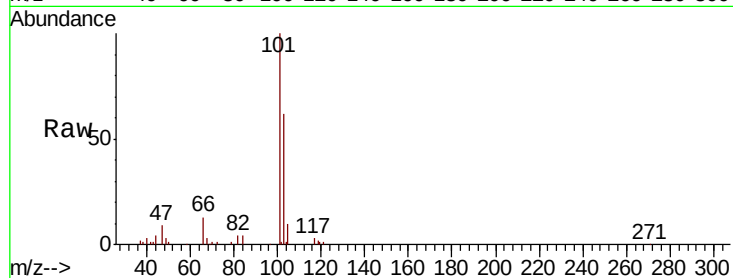
MDL-AIR-03-QT4-2018 0.03 LOD

Tgt Ion:101 Resp: 60635

Ion Ratio Lower Upper

101 100

103 62.3 51.4 77.2



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.305 ppbv

RT: 4.56 min Scan# 506

Delta R.T. -0.00 min

Lab File: VL032696.D

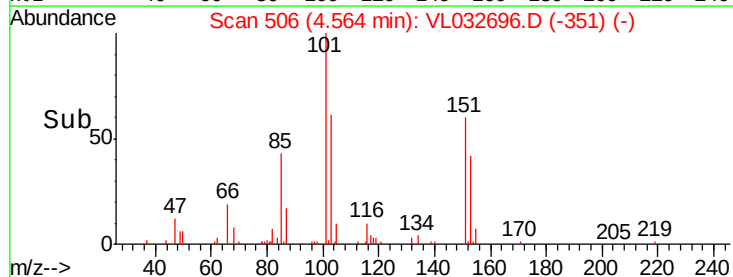
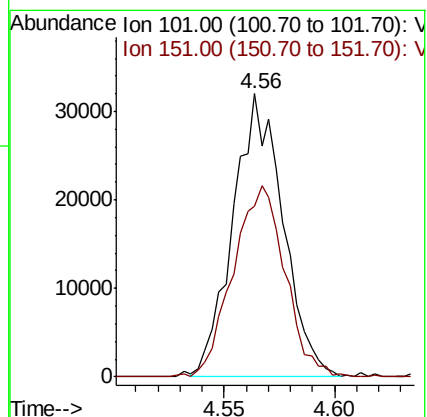
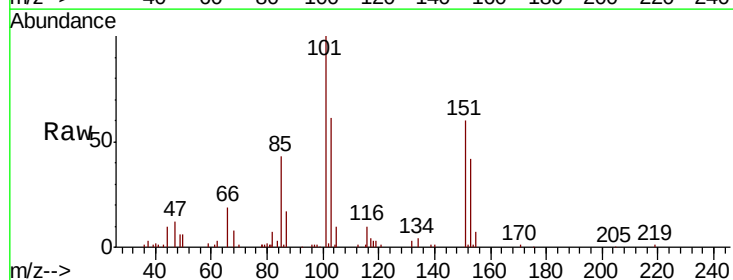
Acq: 24 Oct 2018 20:30

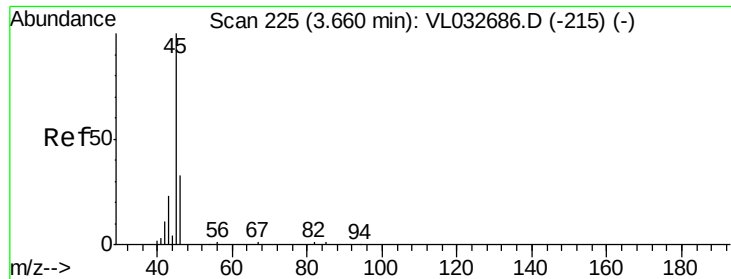
Tgt Ion:101 Resp: 50389

Ion Ratio Lower Upper

101 100

151 70.6 52.3 78.5

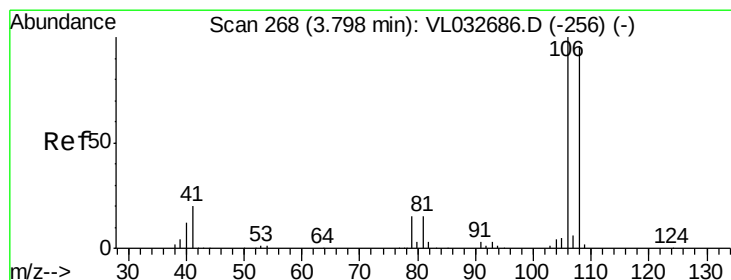
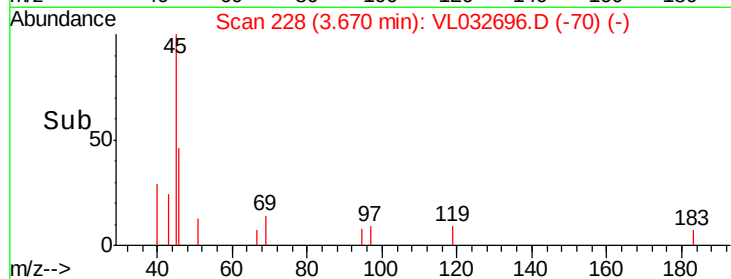
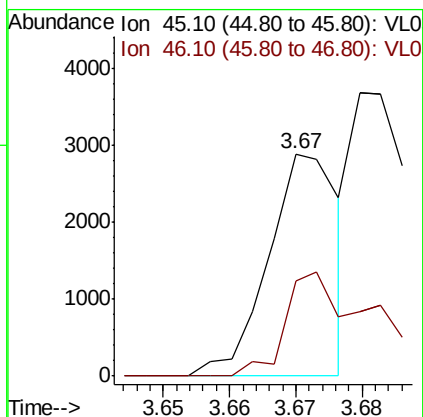
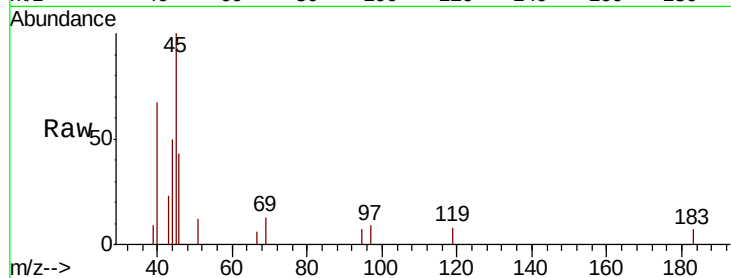




#13
Ethanol
Concen: 0.155 ppbv
RT: 3.67 min Scan# 228
Delta R.T. 0.01 min
Lab File: VL032696.D
Acq: 24 Oct 2018 20:30

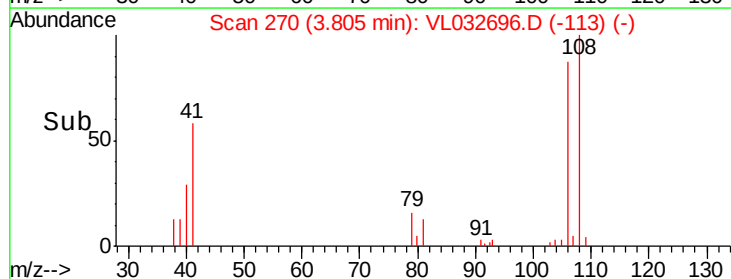
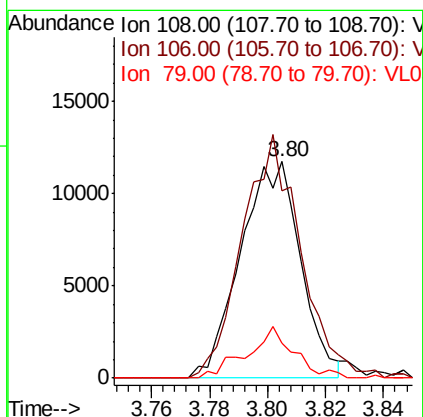
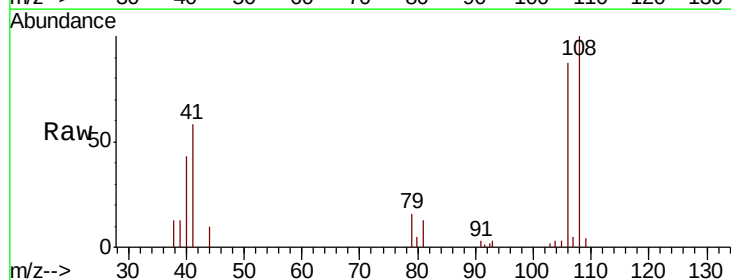
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2018 0.03 LOD

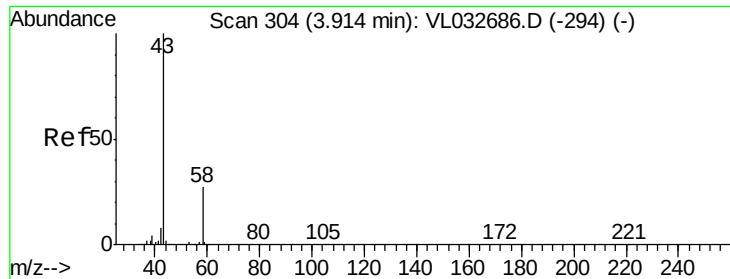
Tgt Ion: 45 Resp: 2132
Ion Ratio Lower Upper
45 100
46 0.0 15.4 61.8#



#14
Bromoethene
Concen: 0.303 ppbv
RT: 3.80 min Scan# 270
Delta R.T. 0.01 min
Lab File: VL032696.D
Acq: 24 Oct 2018 20:30

Tgt Ion: 108 Resp: 16907
Ion Ratio Lower Upper
108 100
106 111.0 85.0 127.4
79 18.7 13.7 20.5





#15

Acetone

Concen: 0.403 ppbv

RT: 3.93 min Scan# 310

Delta R.T. 0.02 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Instrument :

MSVOA_L

ClientSampleId :

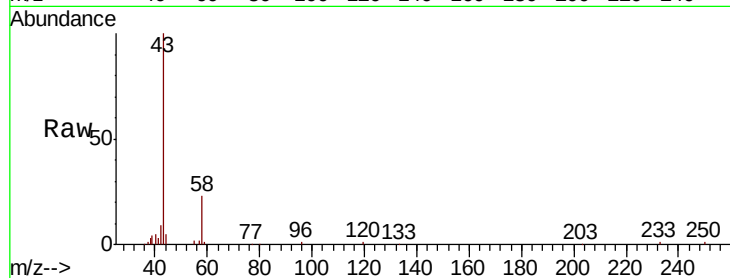
MDL-AIR-03-QT4-2018 0.03 LOD

Tgt Ion: 43 Resp: 55475

Ion Ratio Lower Upper

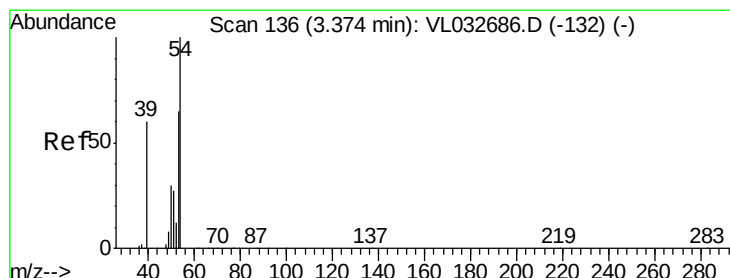
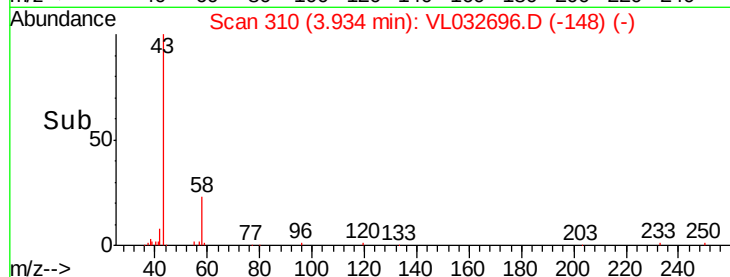
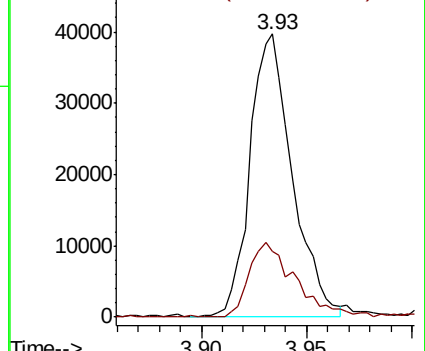
43 100

58 29.6 22.1 33.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.170 ppbv

RT: 3.37 min Scan# 134

Delta R.T. -0.01 min

Lab File: VL032696.D

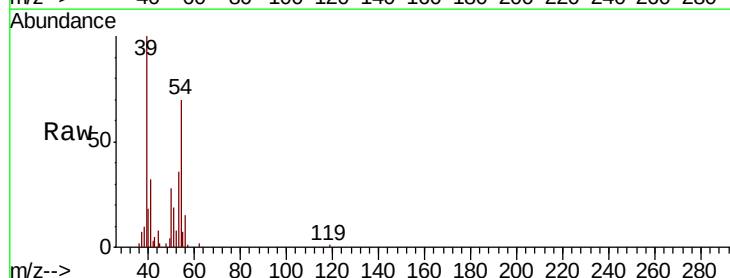
Acq: 24 Oct 2018 20:30

Tgt Ion: 39 Resp: 8636

Ion Ratio Lower Upper

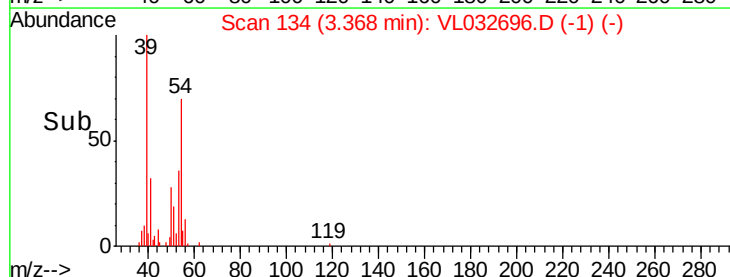
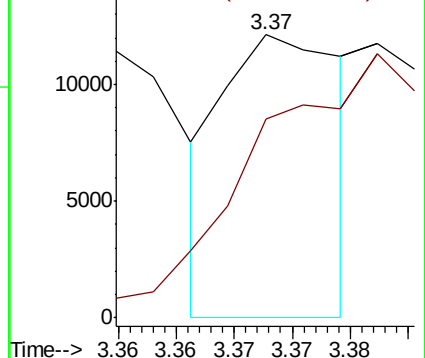
39 100

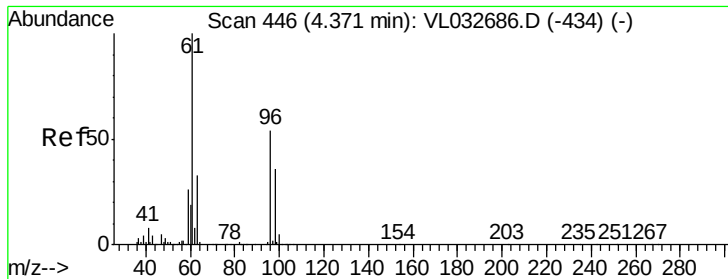
54 0.0 90.4 135.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 0.017 ppbv

RT: 4.37 min Scan# 445

Delta R.T. -0.01 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Instrument :

MSVOA_L

ClientSampleId :

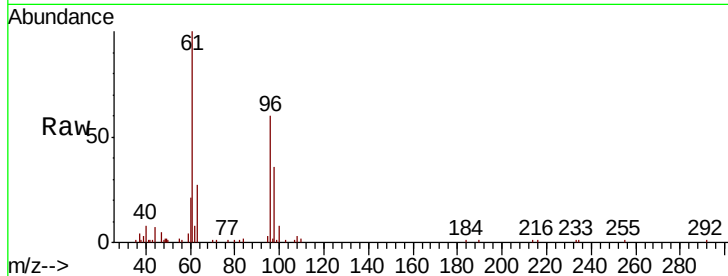
MDL-AIR-03-QT4-2018 0.03 LOD

Tgt Ion: 59 Resp: 701

Ion Ratio Lower Upper

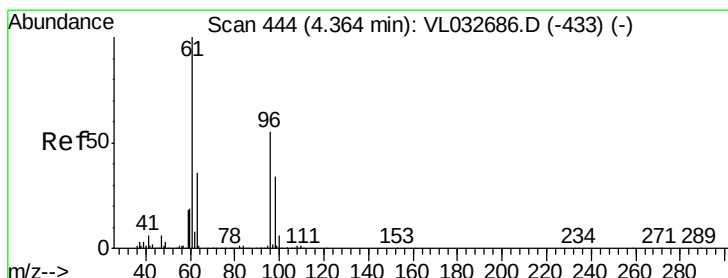
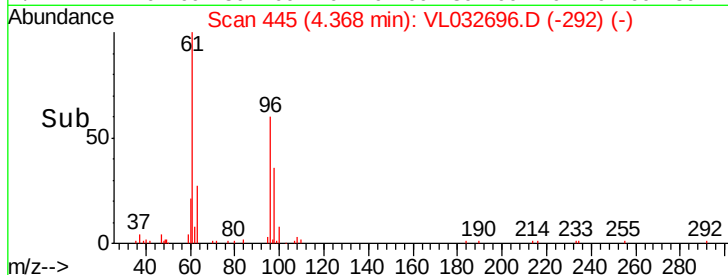
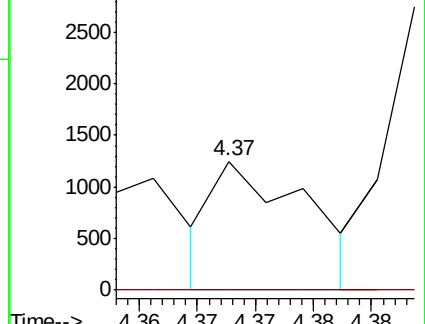
59 100

57 0.0 0.0 0.0



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 0.357 ppbv

RT: 4.37 min Scan# 445

Delta R.T. 0.00 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

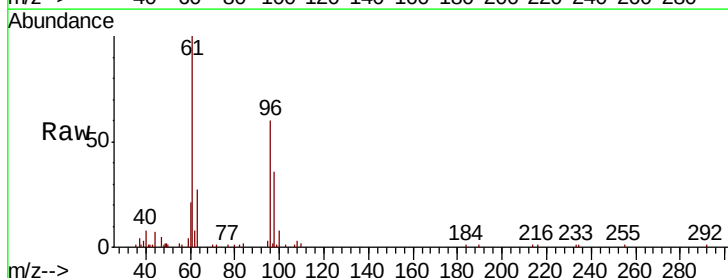
Tgt Ion: 96 Resp: 25917

Ion Ratio Lower Upper

96 100

61 163.8 151.6 227.4

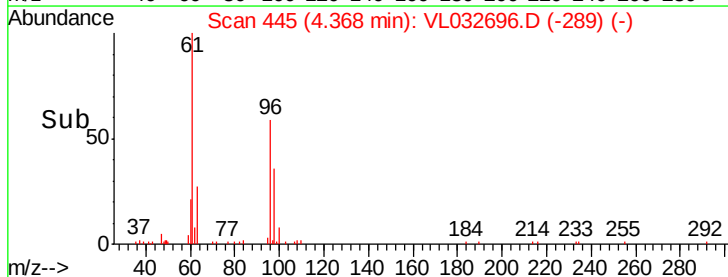
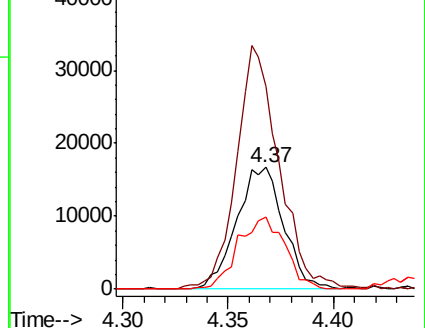
98 59.3 50.6 75.8

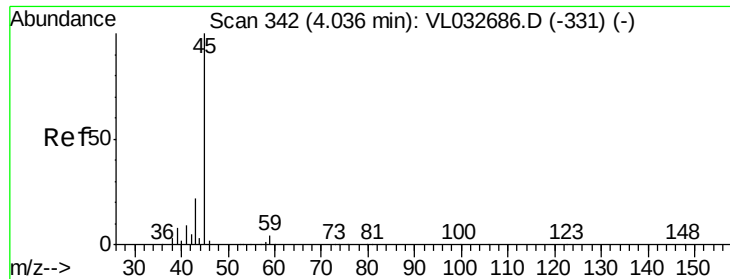


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 0.119 ppbv

RT: 4.06 min Scan# 348

Delta R.T. 0.02 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Instrument :

MSVOA_L

ClientSampleId :

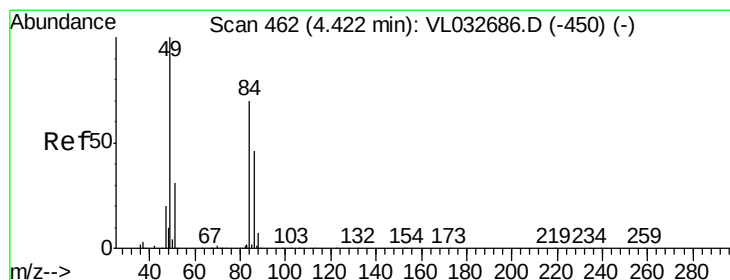
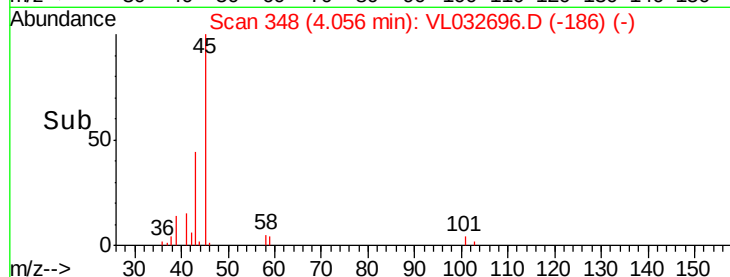
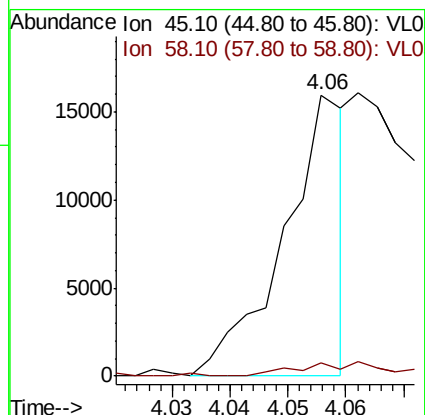
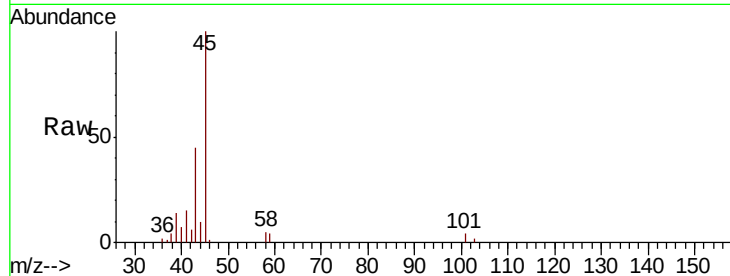
MDL-AIR-03-QT4-2018 0.03 LOD

Tgt Ion: 45 Resp: 11703

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#



#20

Methylene Chloride

Concen: 0.418 ppbv

RT: 4.42 min Scan# 462

Delta R.T. 0.00 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Tgt Ion: 84 Resp: 29226

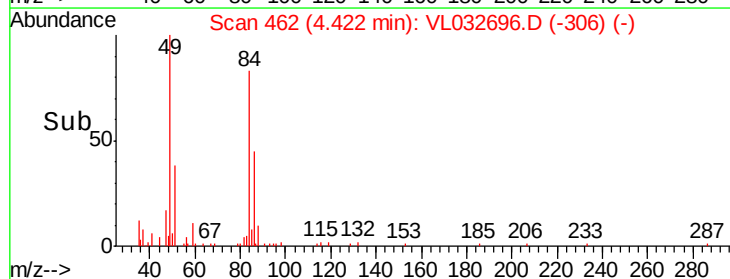
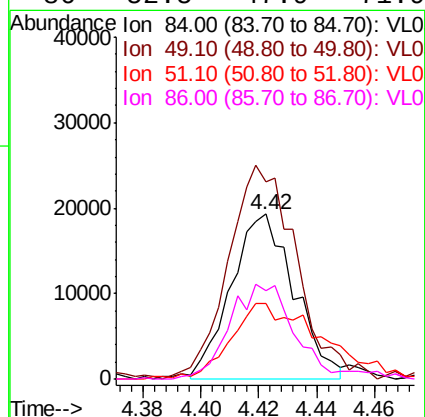
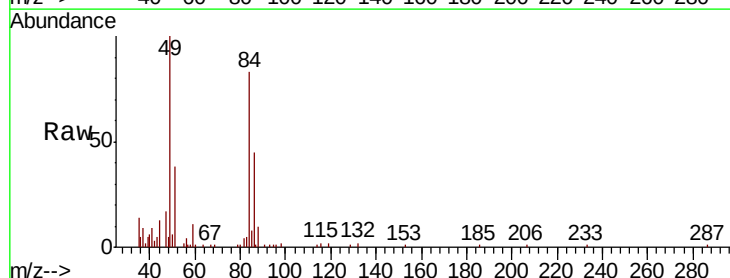
Ion Ratio Lower Upper

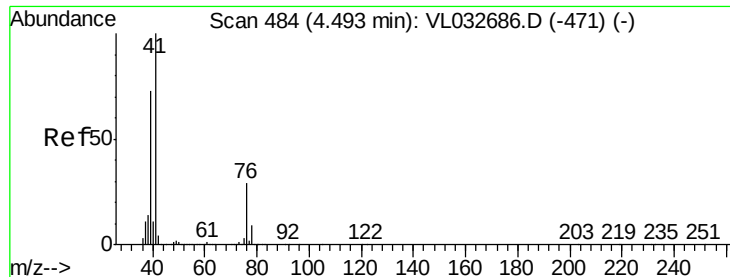
84 100

49 115.4 113.5 170.3

51 45.0 34.8 52.2

86 52.5 47.9 71.9

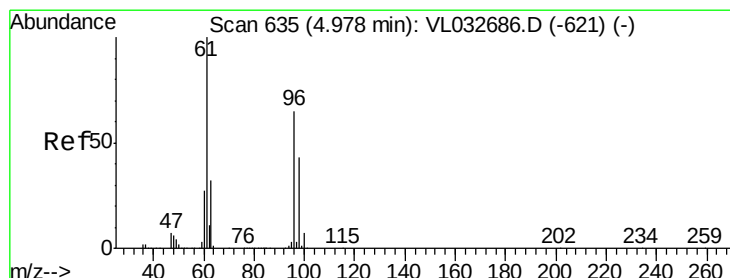
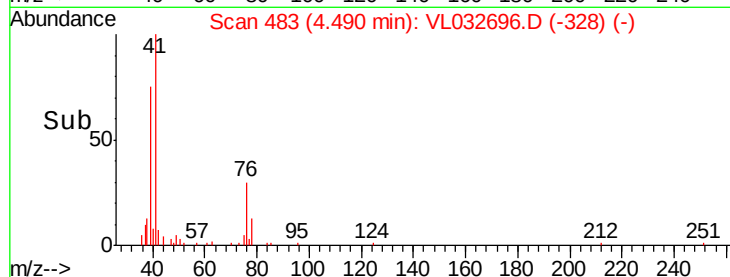
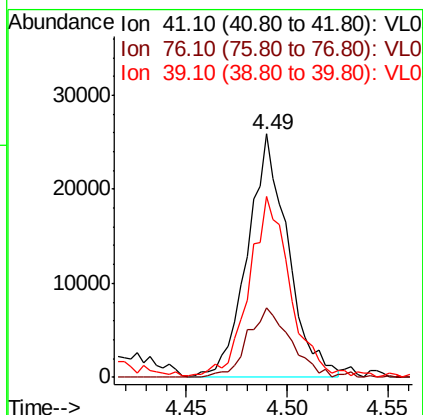
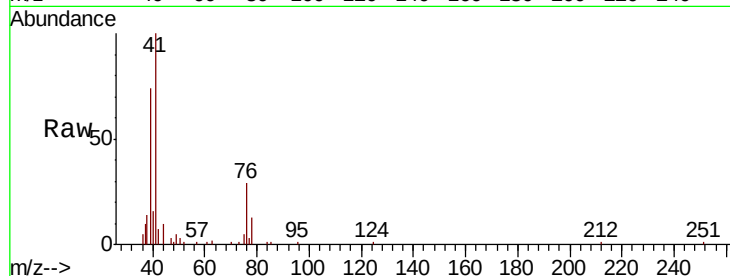




#21
 Allyl Chloride
 Concen: 0.321 ppbv
 RT: 4.49 min Scan# 483
 Delta R.T. -0.00 min
 Lab File: VL032696.D
 Acq: 24 Oct 2018 20:30

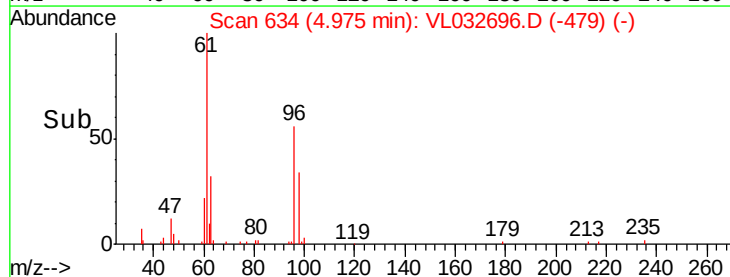
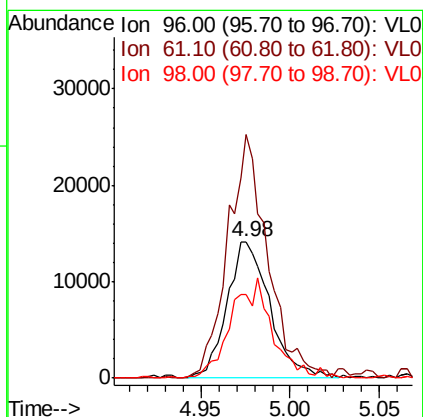
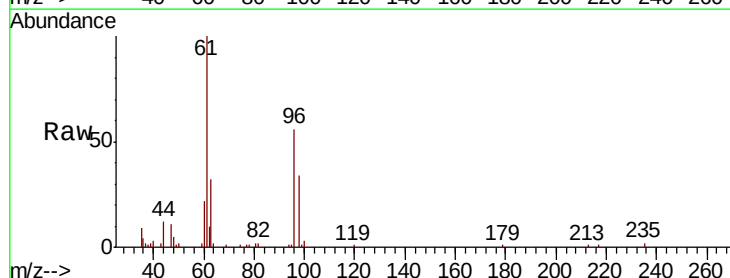
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT4-2018 0.03 LOD

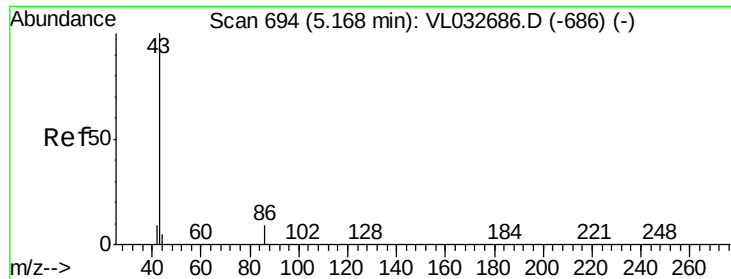
Tgt Ion	Ratio	Lower	Upper
41	100		
76	30.7	24.3	36.5
39	76.3	60.3	90.5



#22
 trans-1,2-Dichloroethene
 Concen: 0.320 ppbv
 RT: 4.98 min Scan# 634
 Delta R.T. -0.00 min
 Lab File: VL032696.D
 Acq: 24 Oct 2018 20:30

Tgt Ion	Ratio	Lower	Upper
96	100		
61	177.2	140.4	210.6
98	59.9	55.0	82.6





#23

Vinyl Acetate

Concen: 0.260 ppbv

RT: 5.18 min Scan# 697

Delta R.T. 0.01 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2018 0.03 LOD

Tgt Ion: 43 Resp: 63382

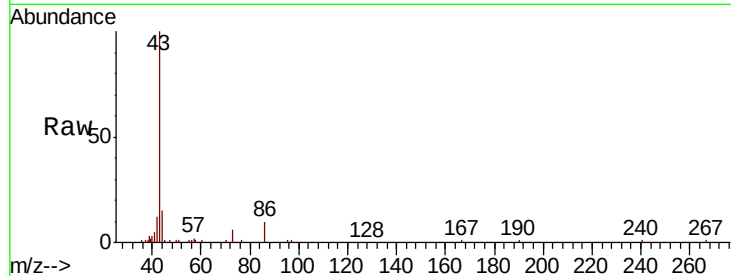
Ion Ratio Lower Upper

43 100

86 9.8 6.1 9.1#

42 11.5 7.4 11.2#

44 10.3 4.2 6.2#

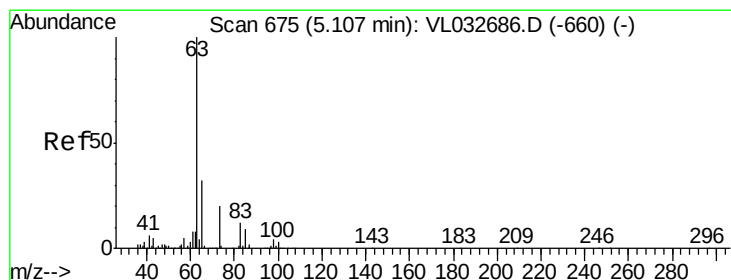
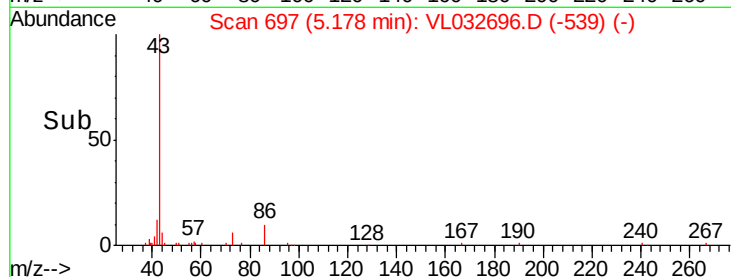
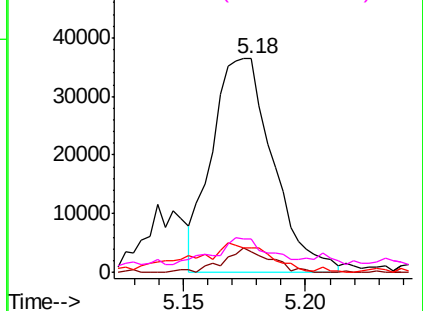


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 0.324 ppbv

RT: 5.10 min Scan# 674

Delta R.T. -0.00 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

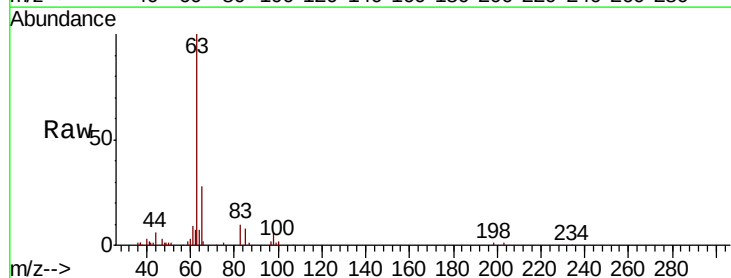
Tgt Ion: 63 Resp: 62142

Ion Ratio Lower Upper

63 100

98 6.3 2.1 6.3

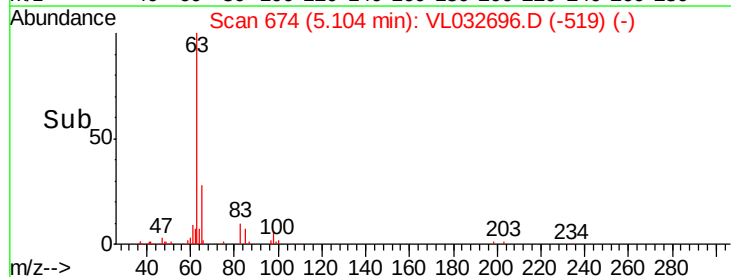
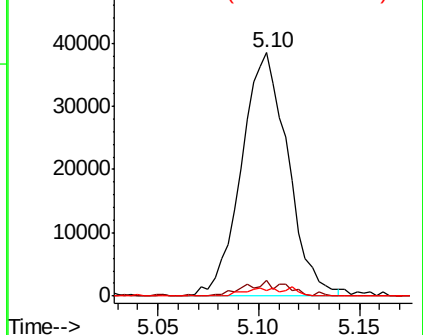
100 2.1 1.2 3.6

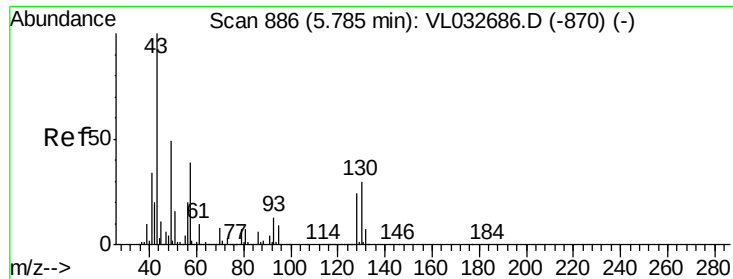


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

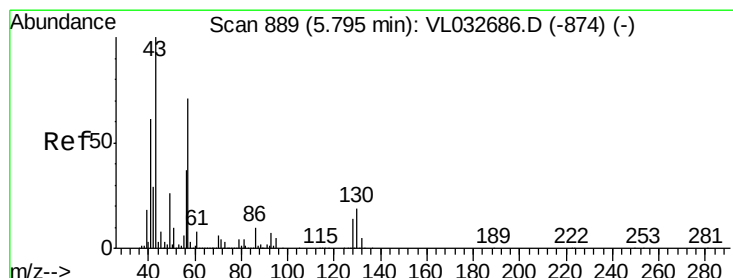
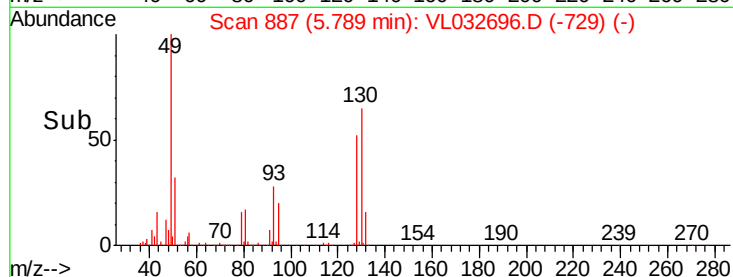
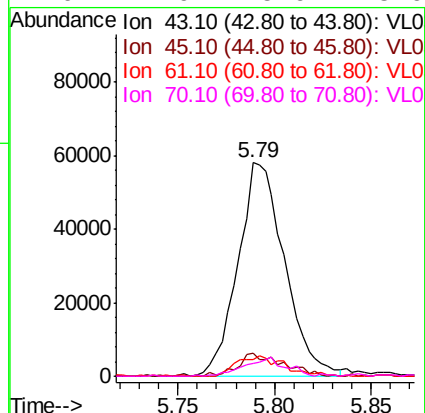
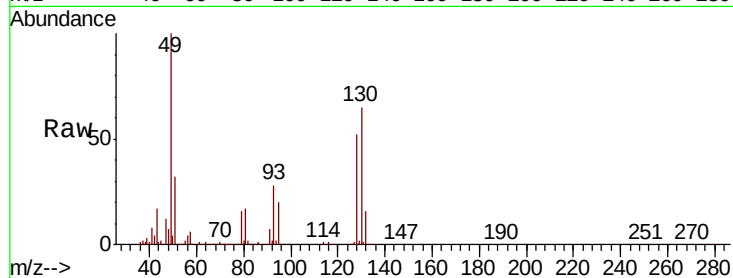




#25
Ethyl Acetate
Concen: 0.307 ppbv
RT: 5.79 min Scan# 887
Delta R.T. 0.01 min
Lab File: VL032696.D
Acq: 24 Oct 2018 20:30

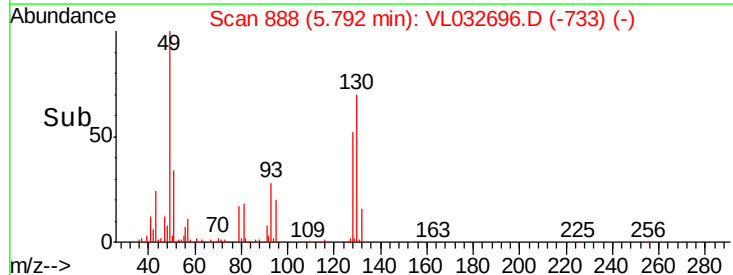
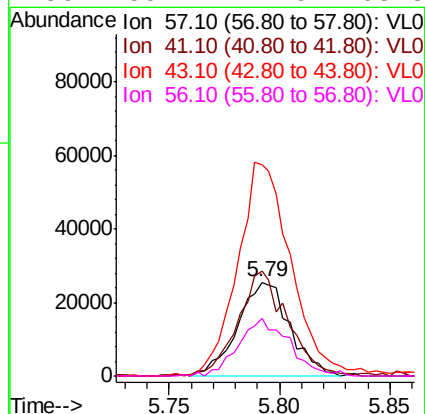
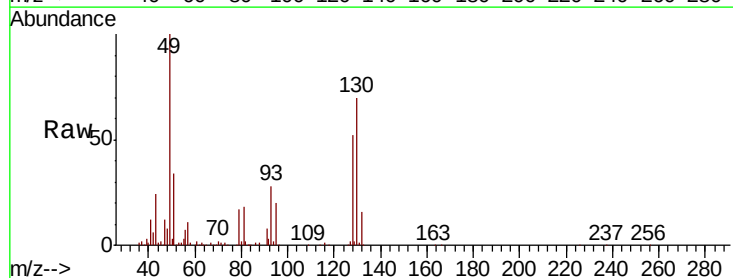
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2018 0.03 LOD

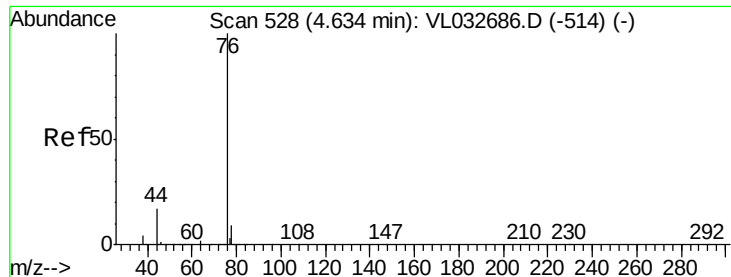
Tgt Ion:	43	Resp:	97222
Ion	Ratio	Lower	Upper
43	100		
45	10.5	8.0	12.0
61	9.9	8.0	12.0
70	7.9	5.9	8.9



#26
Hexane
Concen: 0.280 ppbv
RT: 5.79 min Scan# 888
Delta R.T. -0.00 min
Lab File: VL032696.D
Acq: 24 Oct 2018 20:30

Tgt Ion:	57	Resp:	42000
Ion	Ratio	Lower	Upper
57	100		
41	109.5	67.4	101.0#
43	236.9	171.9	257.9
56	59.7	42.6	63.8





#27

Carbon Disulfide

Concen: 0.290 ppbv

RT: 4.63 min Scan# 528

Delta R.T. 0.00 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2018 0.03 LOD

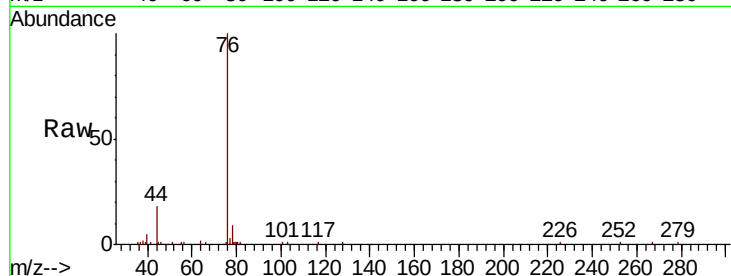
Tgt Ion: 76 Resp: 52710

Ion Ratio Lower Upper

76 100

44 27.2 13.7 20.5#

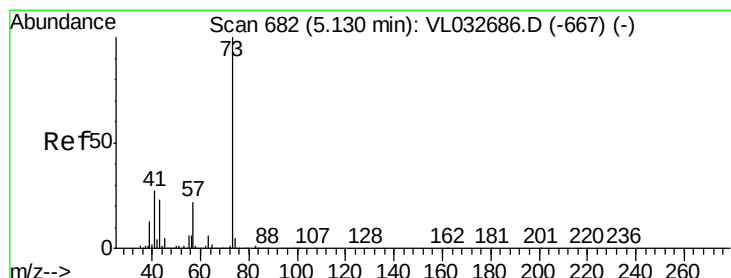
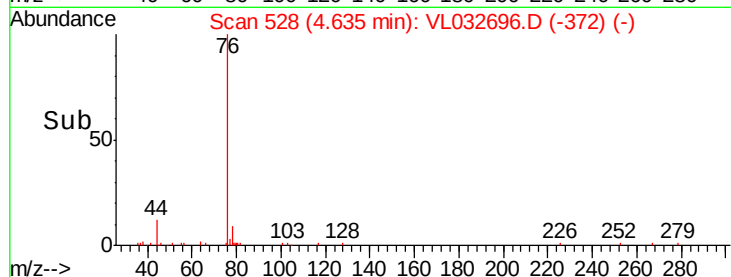
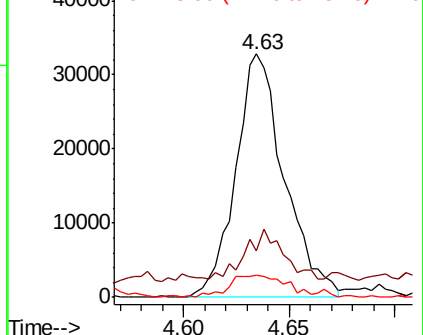
78 11.6 7.4 11.2#



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: 0.143 ppbv

RT: 5.14 min Scan# 686

Delta R.T. 0.02 min

Lab File: VL032696.D

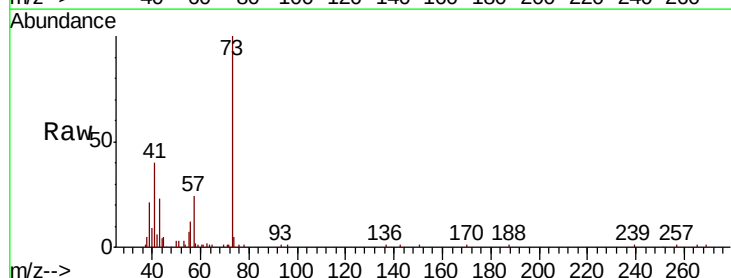
Acq: 24 Oct 2018 20:30

Tgt Ion: 73 Resp: 30915

Ion Ratio Lower Upper

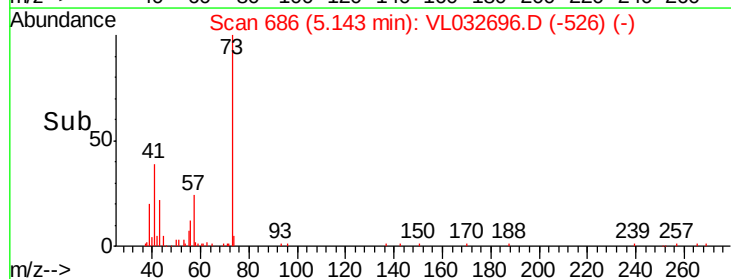
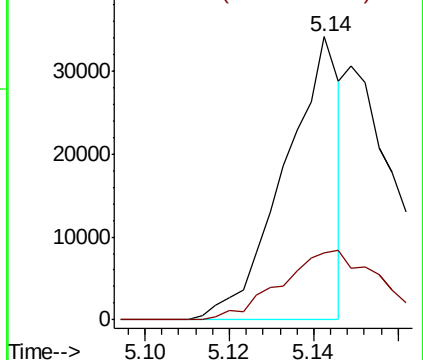
73 100

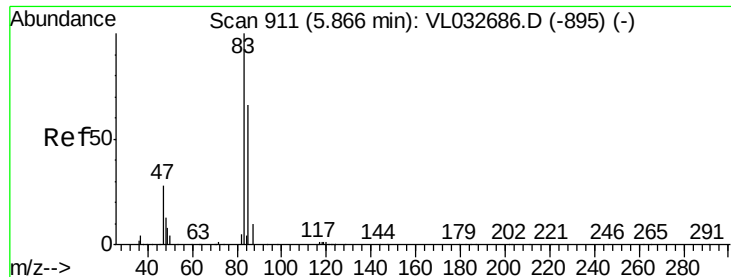
57 0.0 18.0 27.0#



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

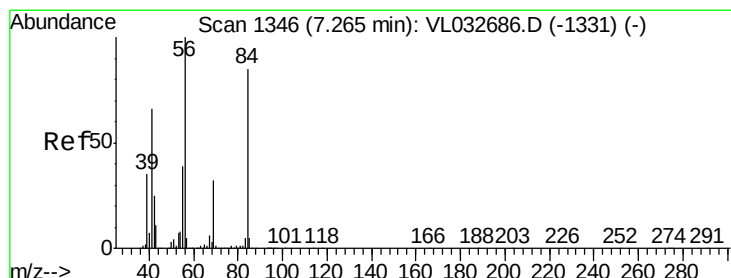
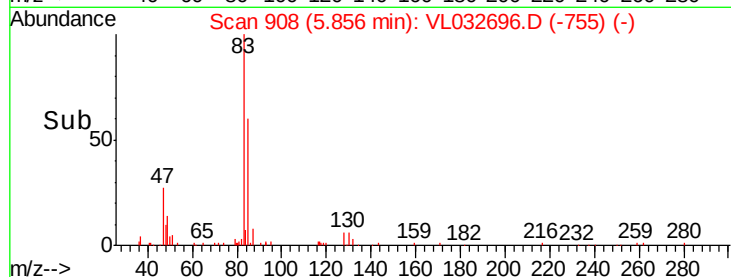
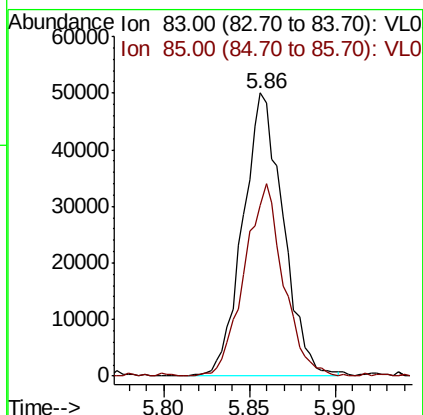
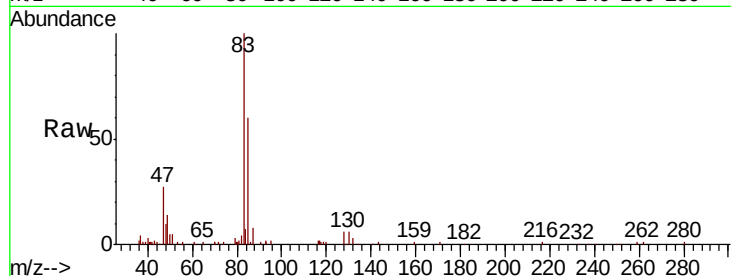




#29
Chloroform
Concen: 0.338 ppbv
RT: 5.86 min Scan# 908
Delta R.T. -0.01 min
Lab File: VL032696.D
Acq: 24 Oct 2018 20:30

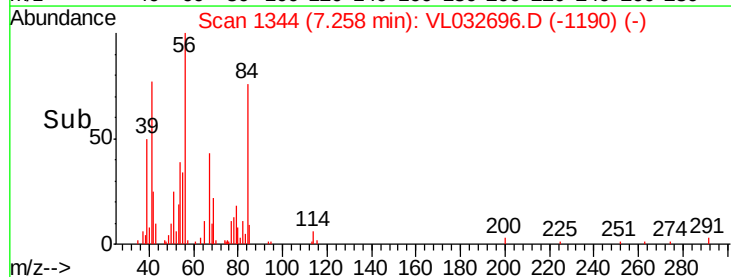
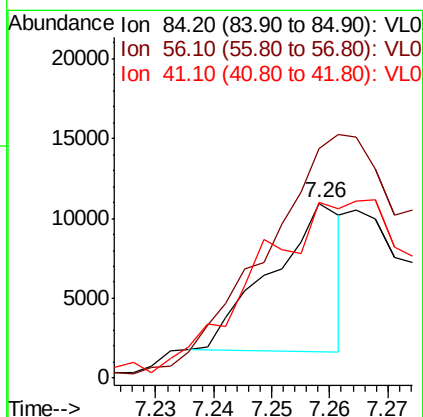
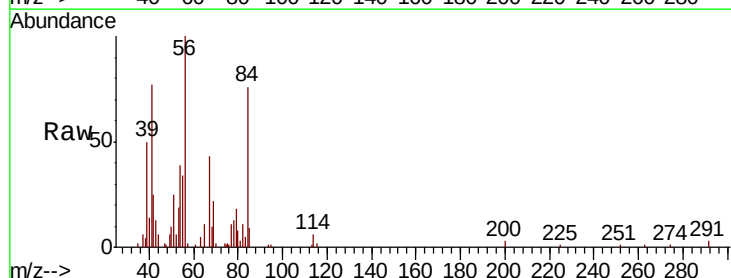
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2018 0.03 LOD

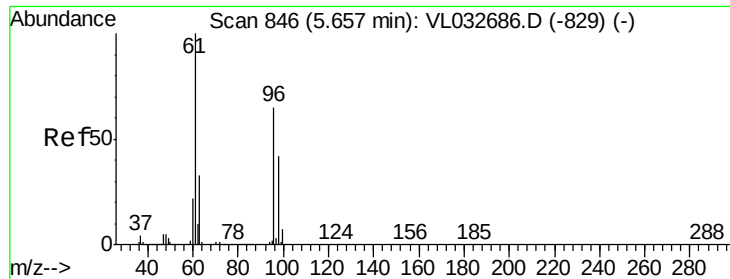
Tgt Ion: 83 Resp: 81023
Ion Ratio Lower Upper
83 100
85 60.4 53.0 79.6



#30
Cyclohexane
Concen: 0.066 ppbv
RT: 7.26 min Scan# 1344
Delta R.T. -0.00 min
Lab File: VL032696.D
Acq: 24 Oct 2018 20:30

Tgt Ion: 84 Resp: 7818
Ion Ratio Lower Upper
84 100
56 0.0 108.3 162.5#
41 0.0 64.8 97.2#





#31

cis-1,2-Dichloroethene

Concen: 0.228 ppbv

RT: 5.65 min Scan# 845

Delta R.T. -0.00 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2018 0.03 LOD

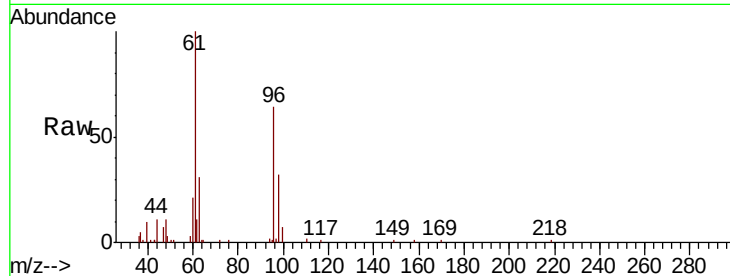
Tgt Ion: 61 Resp: 31785

Ion Ratio Lower Upper

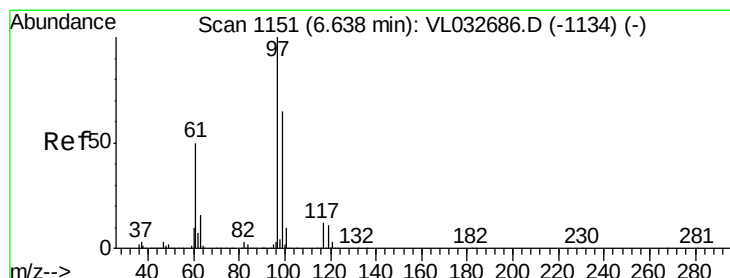
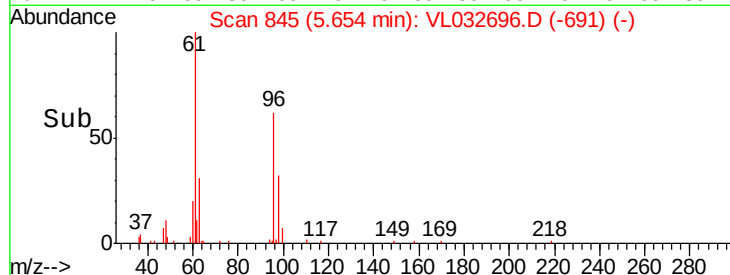
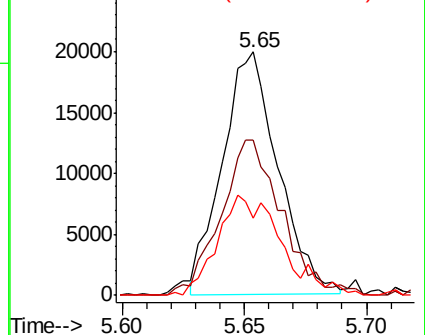
61 100

96 61.2 51.8 77.6

98 29.0 33.8 50.6#



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: 0.308 ppbv

RT: 6.64 min Scan# 1151

Delta R.T. 0.00 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

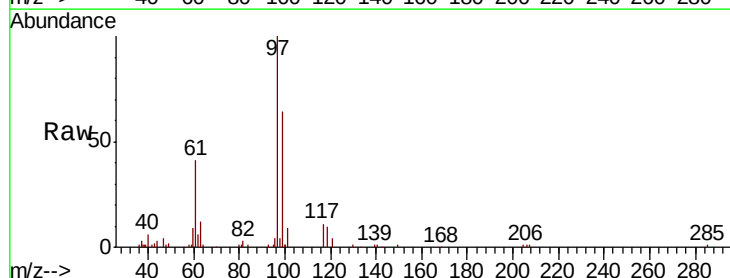
Tgt Ion: 97 Resp: 75096

Ion Ratio Lower Upper

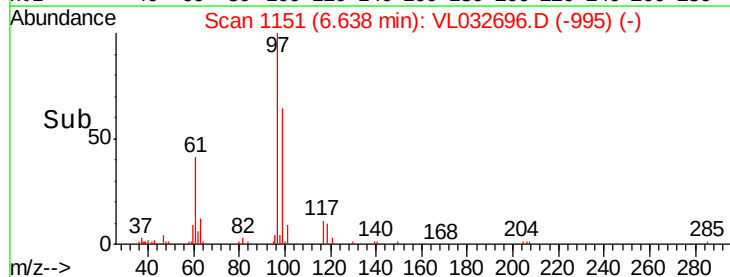
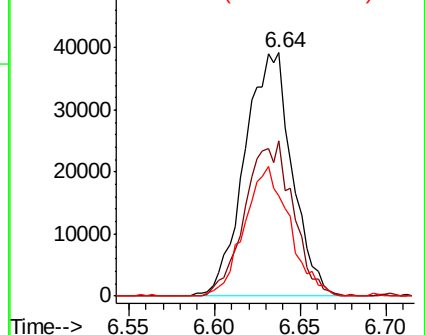
97 100

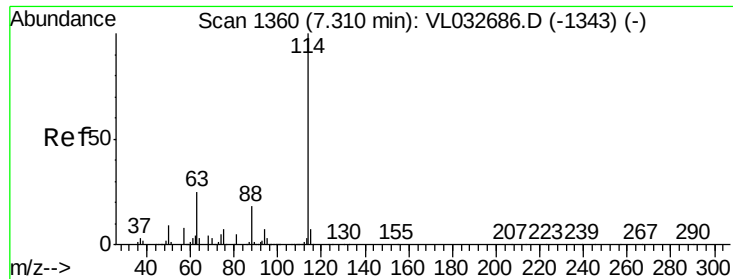
99 64.1 52.0 78.0

61 50.6 40.7 61.1



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

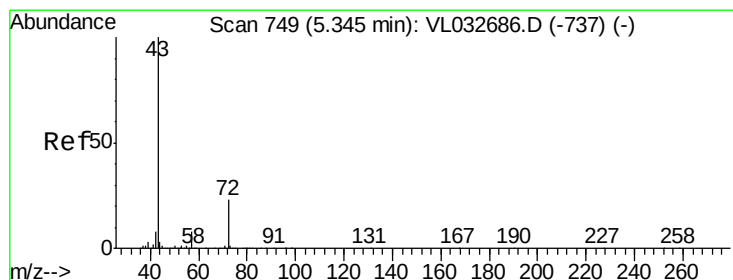
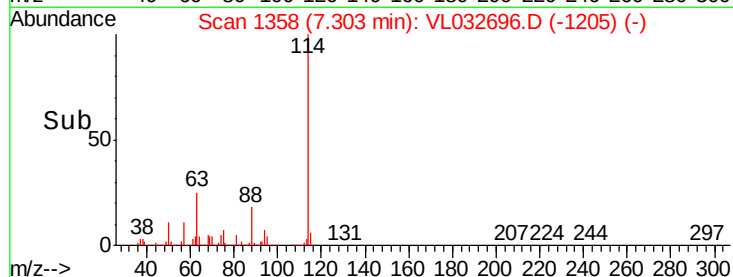
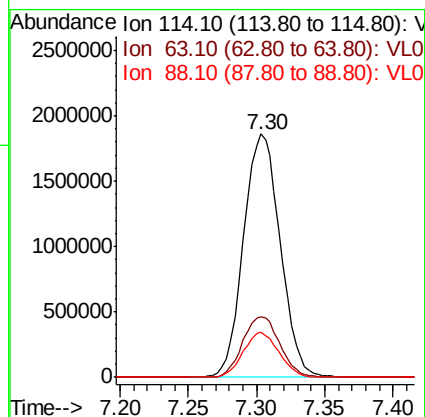
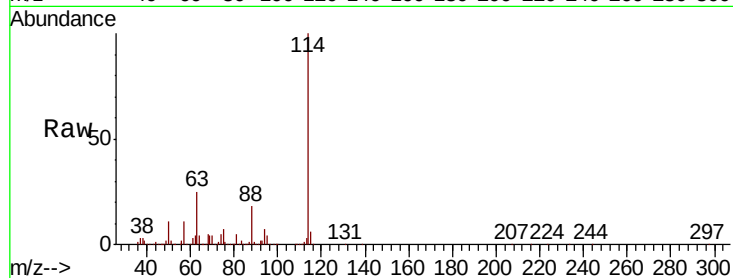




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1358
 Delta R.T. -0.01 min
 Lab File: VL032696.D
 Acq: 24 Oct 2018 20:30

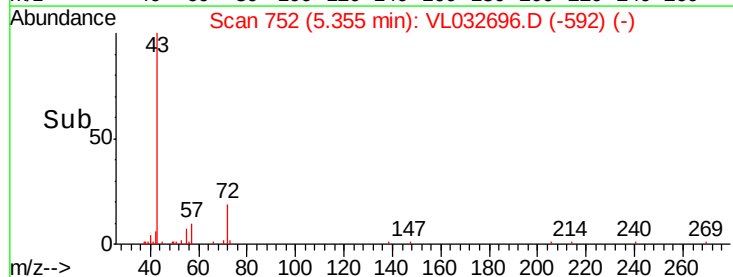
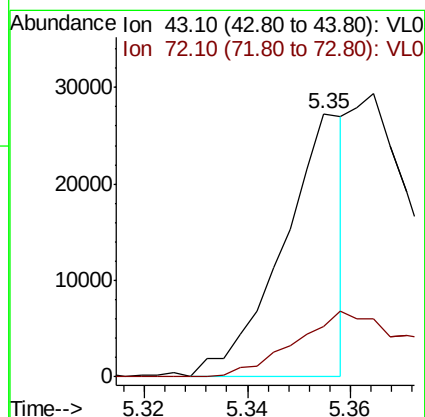
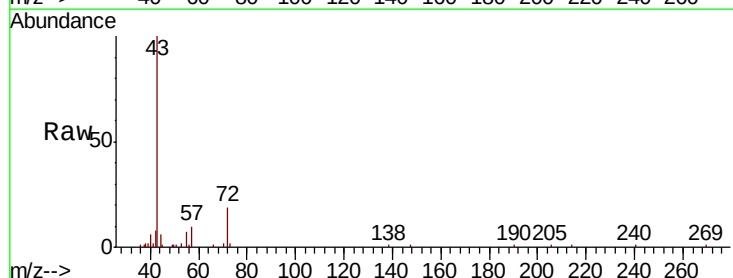
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT4-2018 0.03 LOD

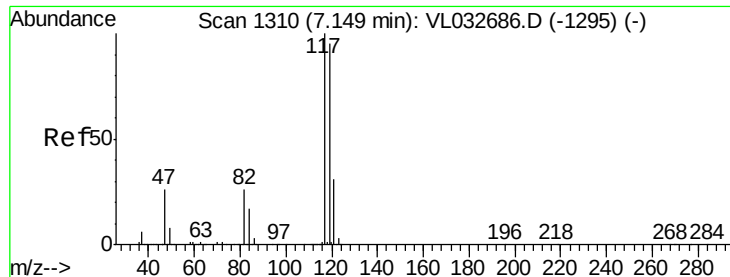
Tgt Ion:114 Resp: 3480431
 Ion Ratio Lower Upper
 114 100
 63 25.2 21.7 32.5
 88 18.0 14.9 22.3



#34
 2-Butanone
 Concen: 0.122 ppbv
 RT: 5.35 min Scan# 752
 Delta R.T. 0.02 min
 Lab File: VL032696.D
 Acq: 24 Oct 2018 20:30

Tgt Ion: 43 Resp: 22682
 Ion Ratio Lower Upper
 43 100
 72 51.6 18.6 27.8#





#35

Carbon Tetrachloride

Concen: 0.321 ppbv

RT: 7.14 min Scan# 1308

Delta R.T. -0.01 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2018 0.03 LOD

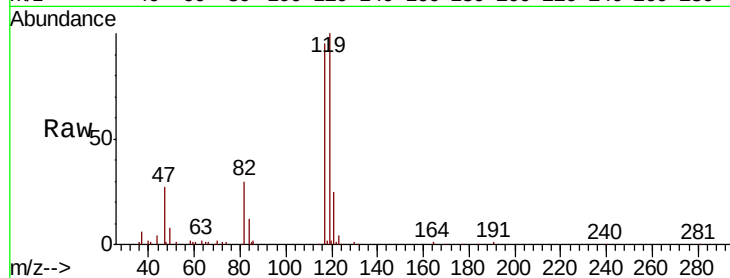
Tgt Ion:117 Resp: 79298

Ion Ratio Lower Upper

117 100

119 104.8 75.7 113.5

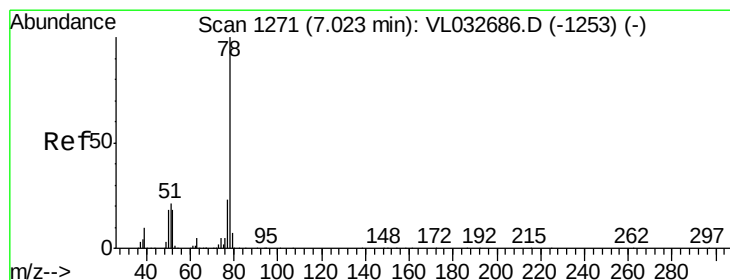
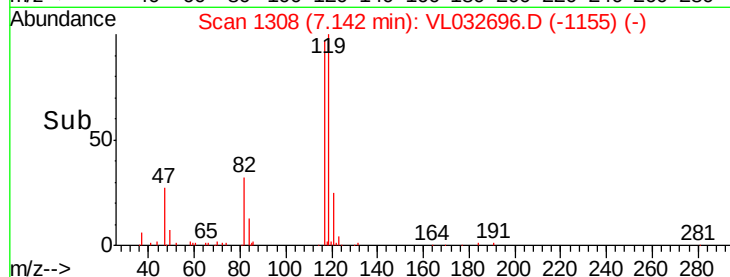
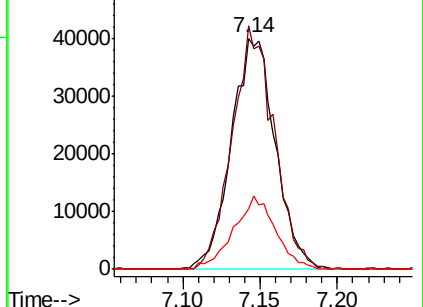
121 26.0 24.7 37.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.251 ppbv

RT: 7.02 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

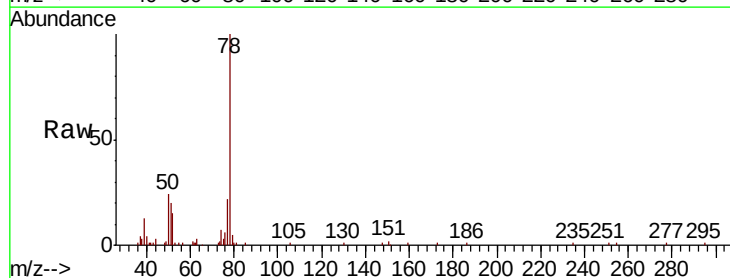
Tgt Ion: 78 Resp: 71012

Ion Ratio Lower Upper

78 100

77 22.2 18.1 27.1

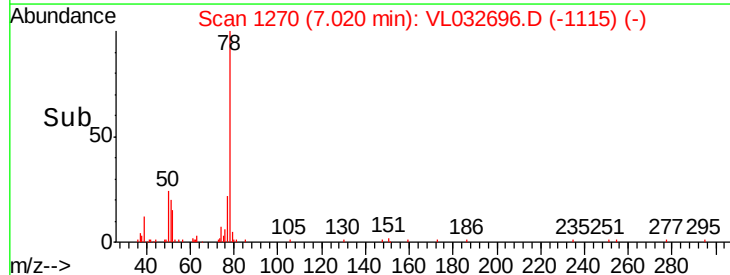
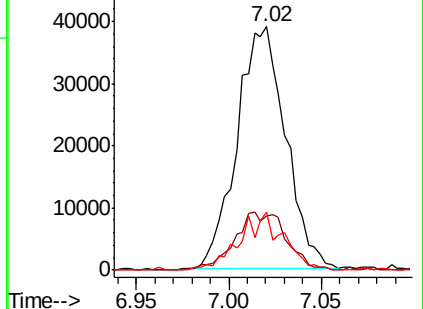
50 23.9 15.1 22.7#

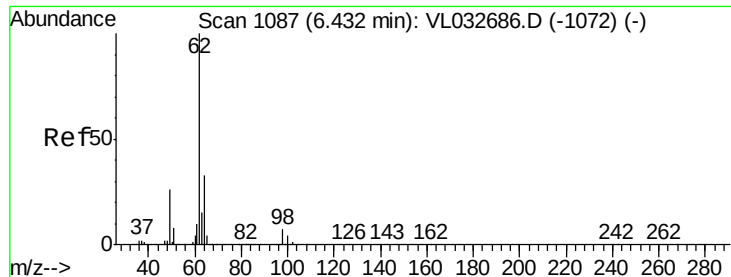


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

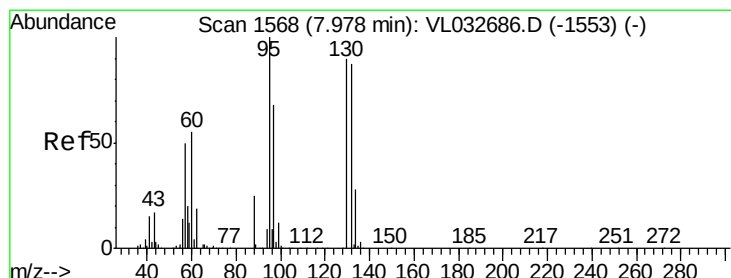
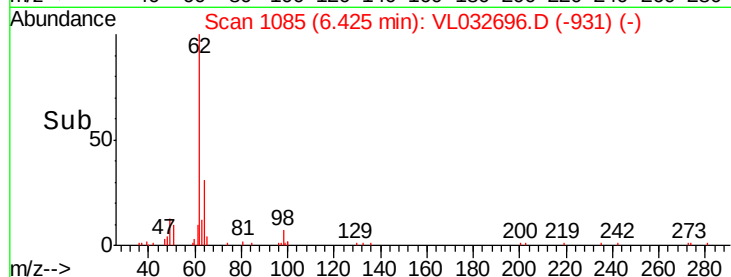
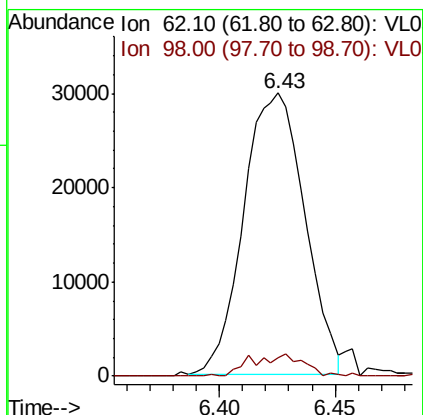
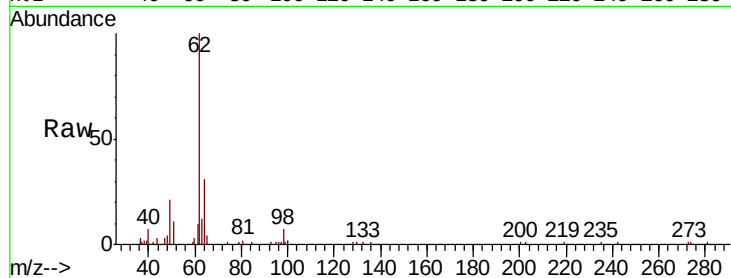




#37
 1,2-Dichloroethane
 Concen: 0.314 ppbv
 RT: 6.43 min Scan# 1085
 Delta R.T. -0.00 min
 Lab File: VL032696.D
 Acq: 24 Oct 2018 20:30

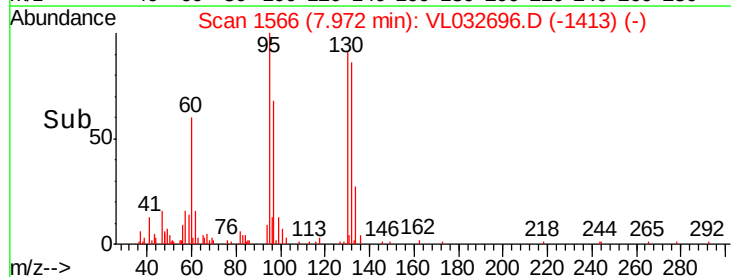
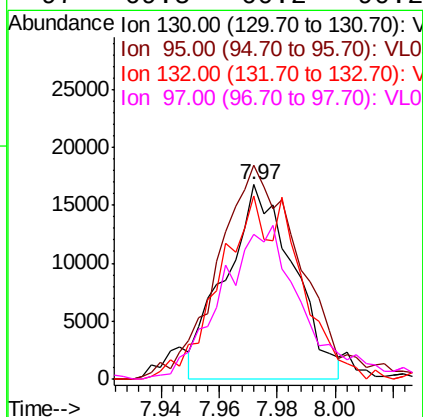
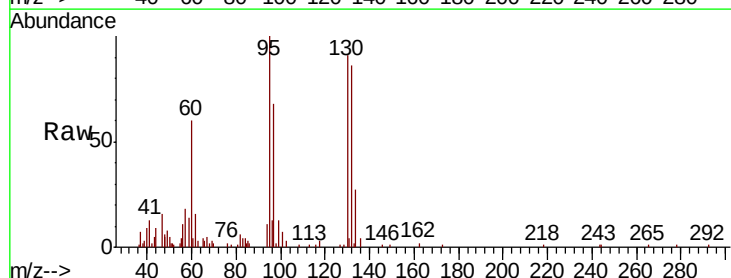
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT4-2018 0.03 LOD

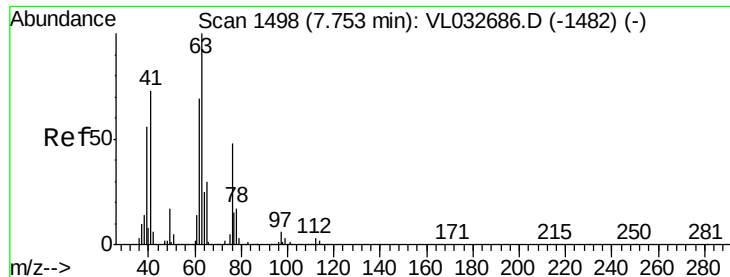
Tgt Ion: 62 Resp: 54397
 Ion Ratio Lower Upper
 62 100
 98 6.7 4.4 6.6#



#38
 Trichloroethene
 Concen: 0.260 ppbv
 RT: 7.97 min Scan# 1566
 Delta R.T. -0.01 min
 Lab File: VL032696.D
 Acq: 24 Oct 2018 20:30

Tgt Ion: 130 Resp: 27242
 Ion Ratio Lower Upper
 130 100
 95 113.2 93.4 140.0
 132 96.2 76.5 114.7
 97 69.5 60.2 90.2





#39

1,2-Dichloropropane

Concen: 0.279 ppbv

RT: 7.75 min Scan# 1497

Delta R.T. -0.00 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2018 0.03 LOD

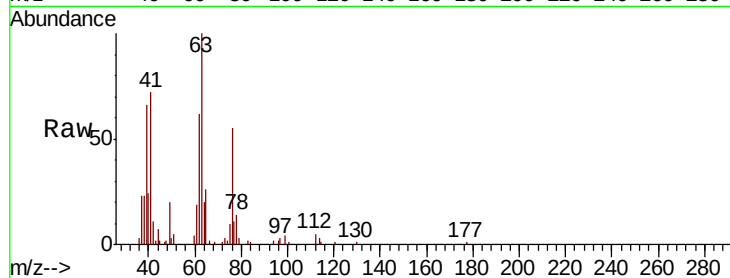
Tgt Ion: 63 Resp: 30488

Ion Ratio Lower Upper

63 100

41 70.9 56.2 84.4

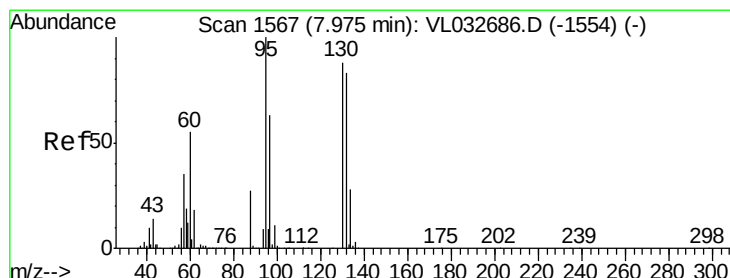
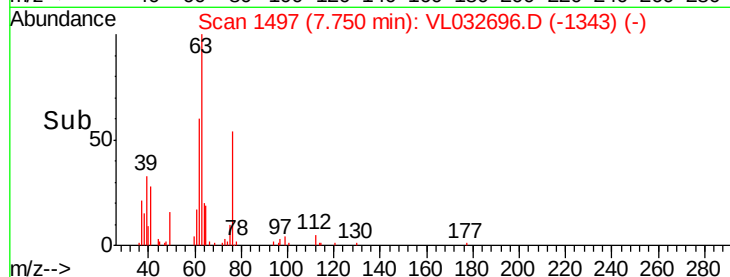
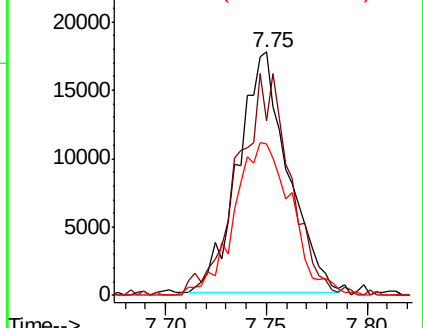
62 60.2 54.4 81.6



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: 0.003 ppbv

RT: 7.95 min Scan# 1558

Delta R.T. -0.03 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Tgt Ion: 88 Resp: 106

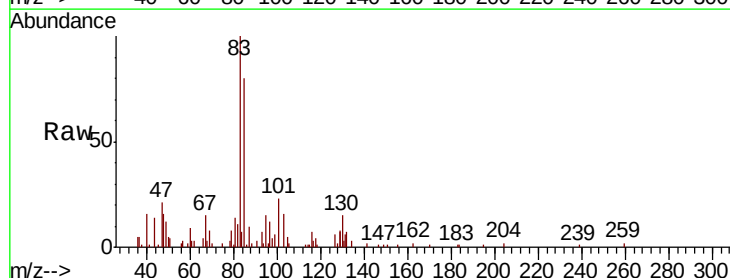
Ion Ratio Lower Upper

88 100

58 0.0 104.0 156.0#

43 0.0 0.0 0.0

57 0.0 0.0 0.0

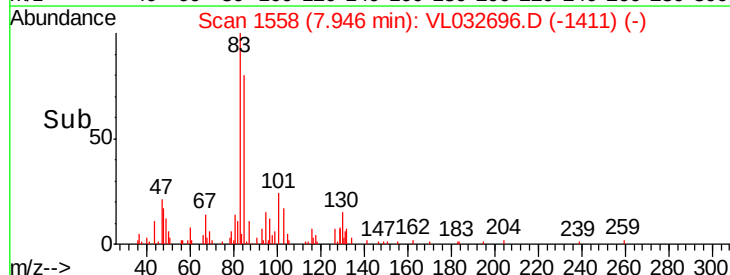
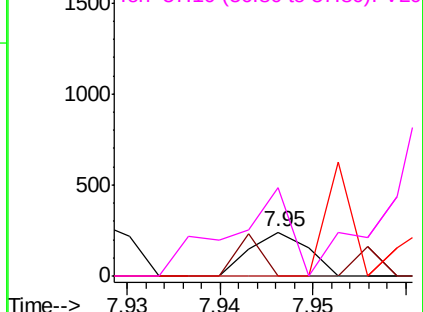


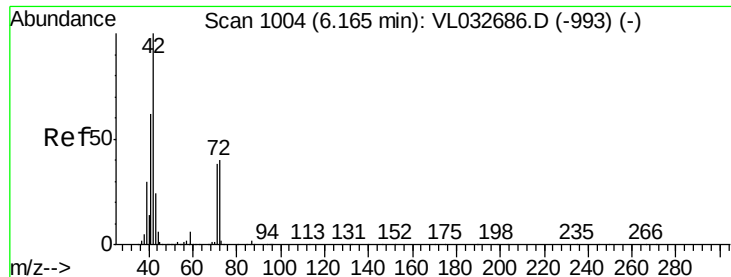
Abundance Ion 88.10 (87.80 to 88.80): VL0

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: 0.103 ppbv

RT: 6.19 min Scan# 1012

Delta R.T. 0.03 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2018 0.03 LOD

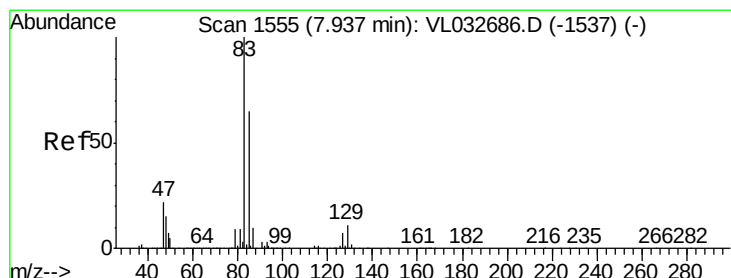
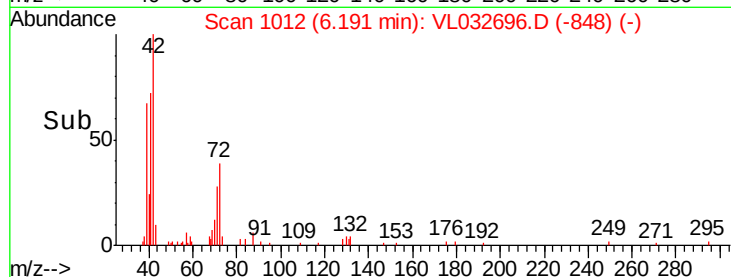
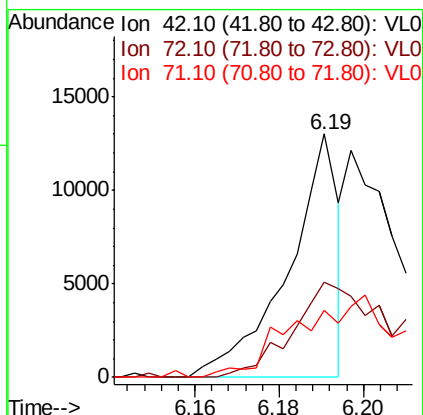
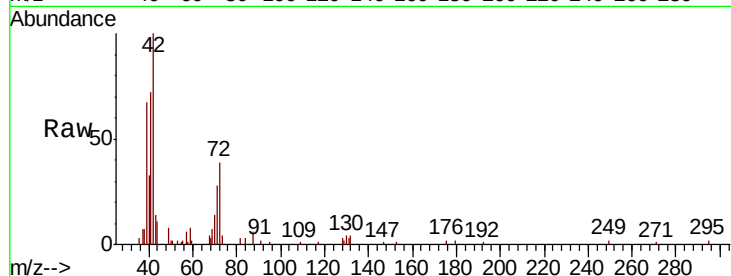
Tgt Ion: 42 Resp: 10695

Ion Ratio Lower Upper

42 100

72 86.9 32.4 48.6#

71 0.0 31.3 46.9#



#42

Bromodichloromethane

Concen: 0.323 ppbv

RT: 7.93 min Scan# 1553

Delta R.T. -0.00 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

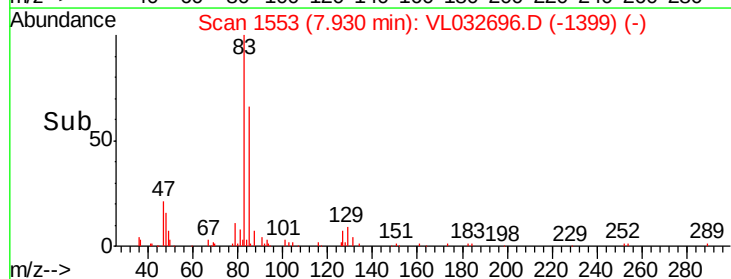
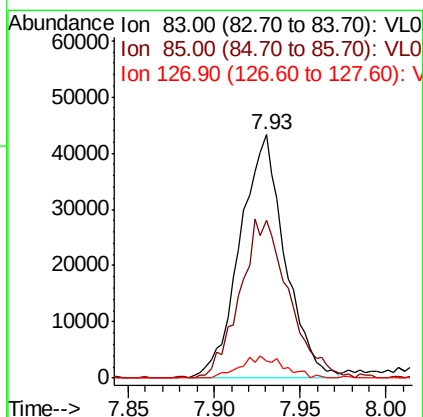
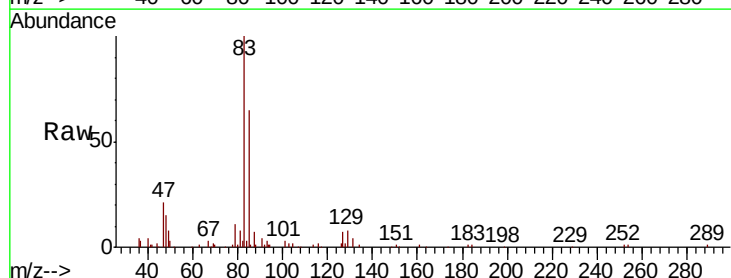
Tgt Ion: 83 Resp: 78518

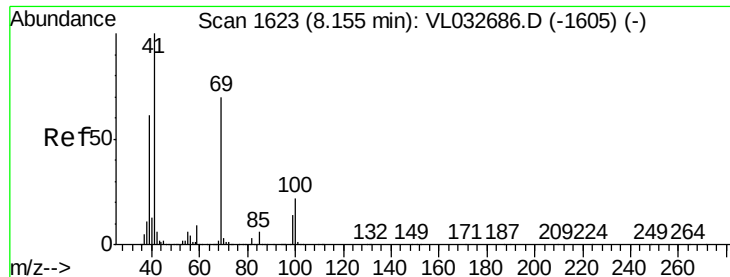
Ion Ratio Lower Upper

83 100

85 64.8 52.4 78.6

127 6.8 6.1 9.1





#43

Methyl Methacrylate

Concen: 0.039 ppbv

RT: 8.14 min Scan# 1619

Delta R.T. -0.01 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2018 0.03 LOD

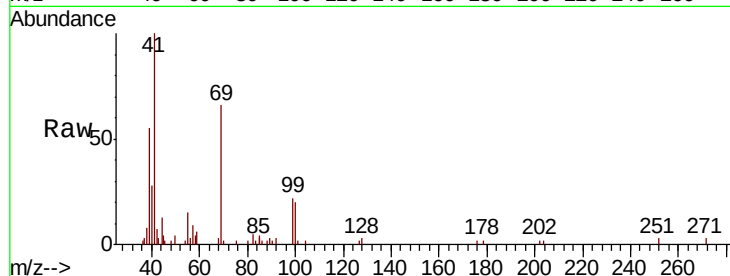
Tgt Ion: 69 Resp: 4062

Ion Ratio Lower Upper

69 100

41 0.0 113.2 169.8#

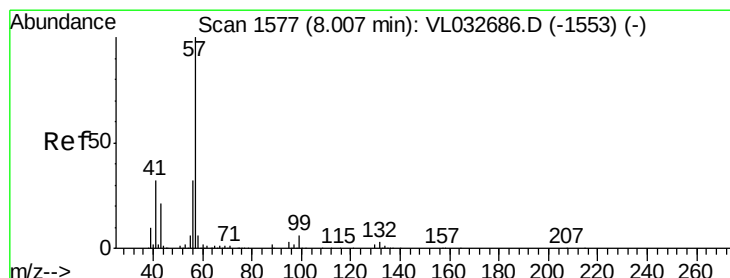
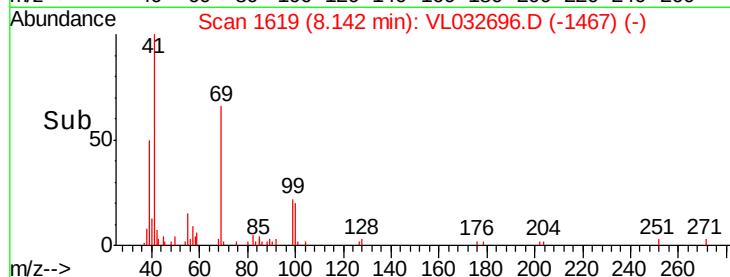
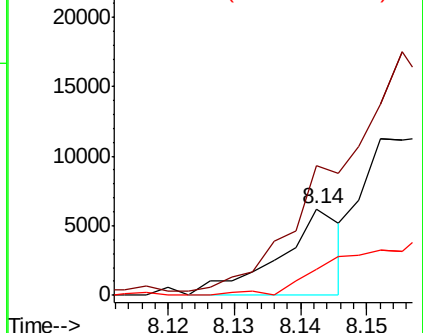
100 0.0 24.4 36.6#



Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.238 ppbv

RT: 8.01 min Scan# 1577

Delta R.T. 0.00 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

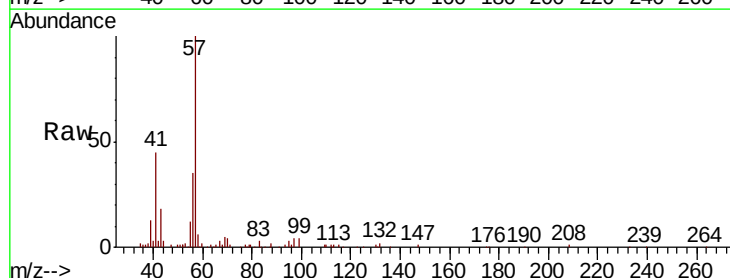
Tgt Ion: 57 Resp: 114691

Ion Ratio Lower Upper

57 100

41 43.5 24.7 37.1#

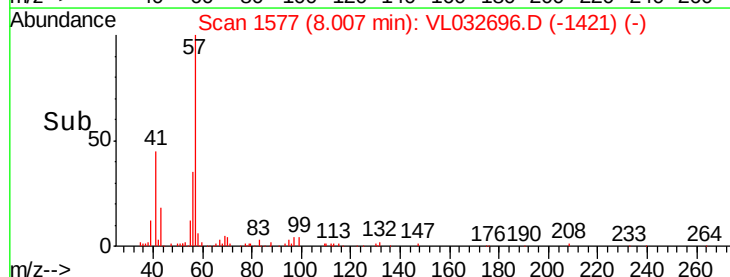
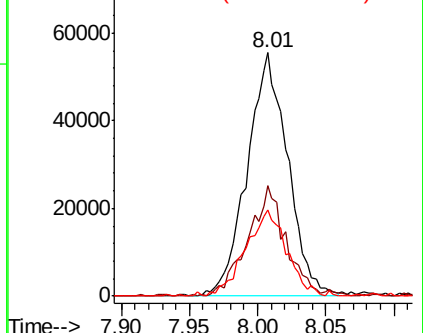
56 36.3 25.0 37.4

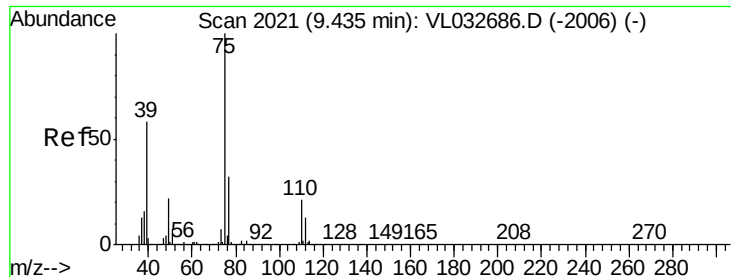


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#45

t-1,3-Dichloropropene

Concen: 0.100 ppbv

RT: 9.43 min Scan# 2019

Delta R.T. -0.00 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Instrument :

MSVOA_L

ClientSampleId :

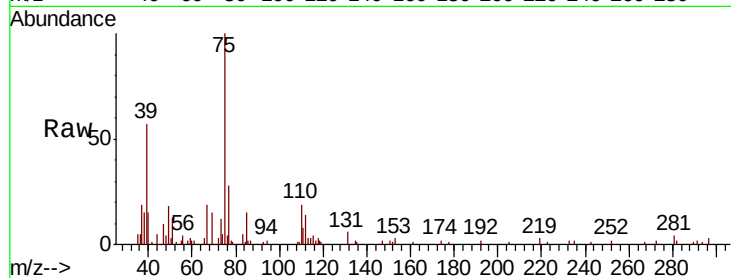
MDL-AIR-03-QT4-2018 0.03 LOD

Tgt Ion: 75 Resp: 13899

Ion Ratio Lower Upper

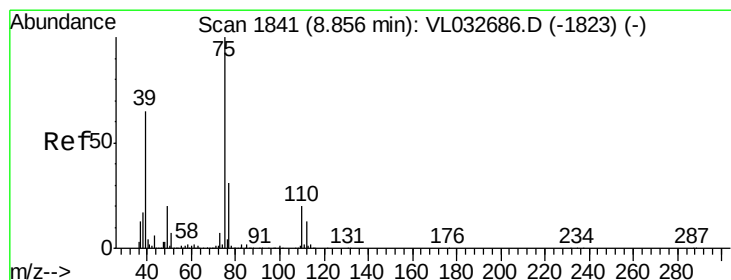
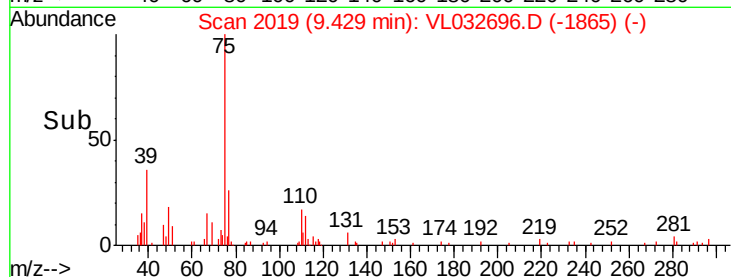
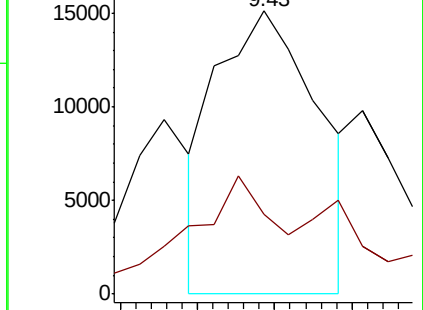
75 100

77 28.1 25.3 37.9



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 0.077 ppbv

RT: 8.84 min Scan# 1837

Delta R.T. -0.01 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

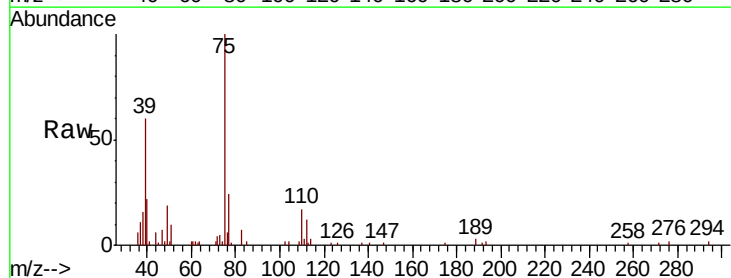
Tgt Ion: 75 Resp: 12239

Ion Ratio Lower Upper

75 100

39 55.5 50.9 76.3

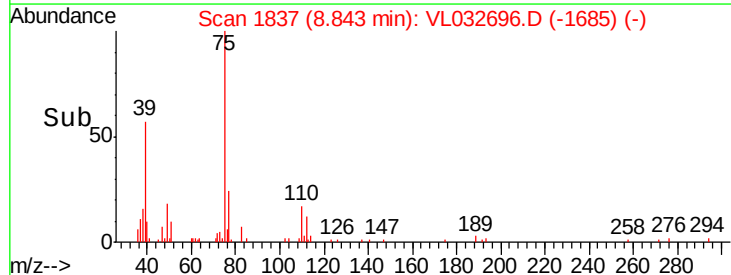
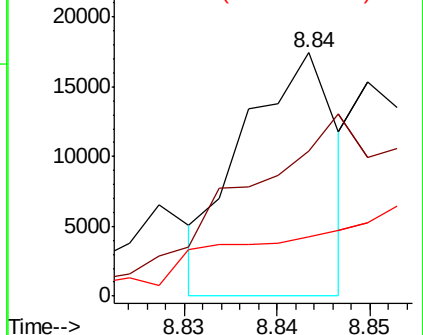
77 6.9 25.8 38.6#

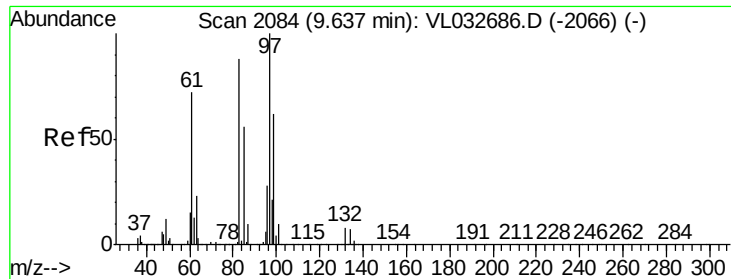


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

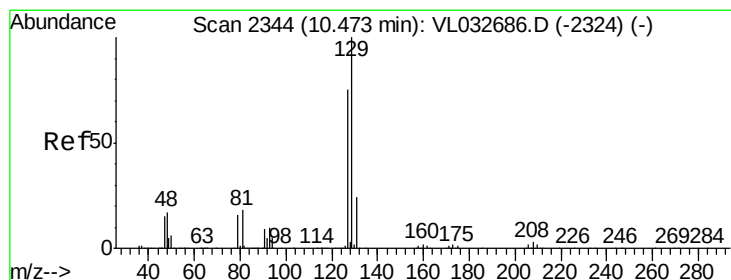
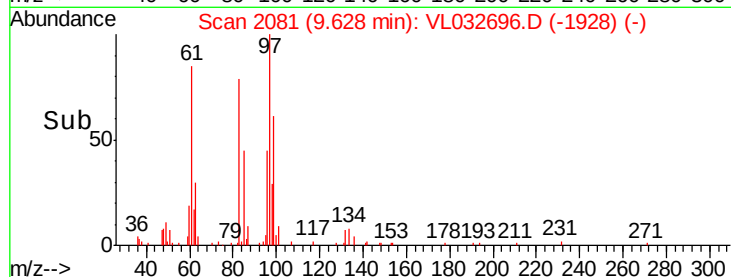
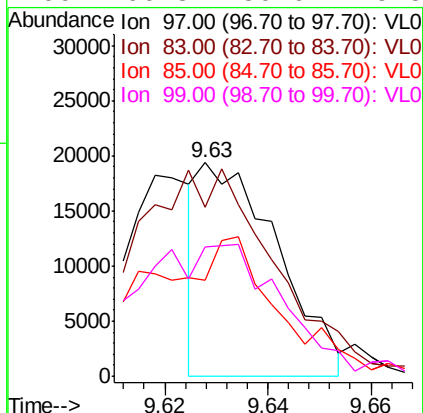
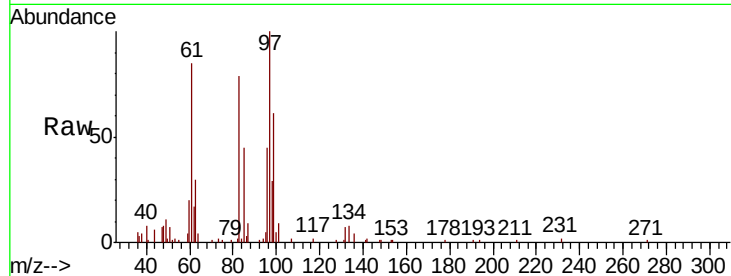




#47
 1,1,2-Trichloroethane
 Concen: 0.158 ppbv
 RT: 9.63 min Scan# 2081
 Delta R.T. -0.01 min
 Lab File: VL032696.D
 Acq: 24 Oct 2018 20:30

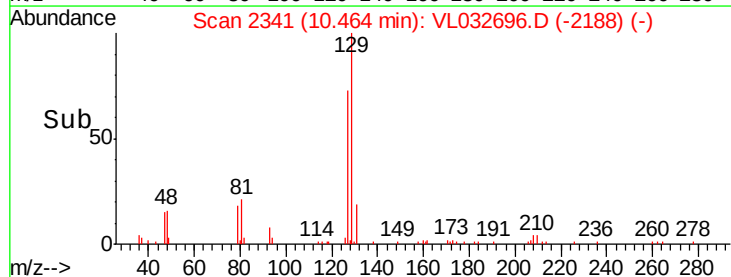
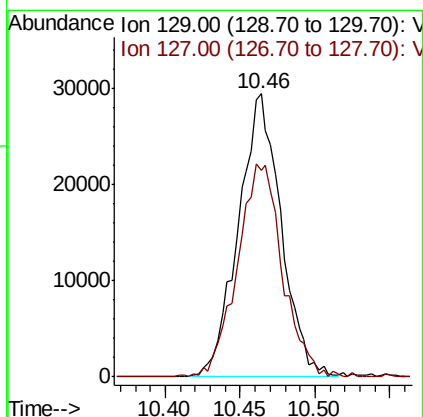
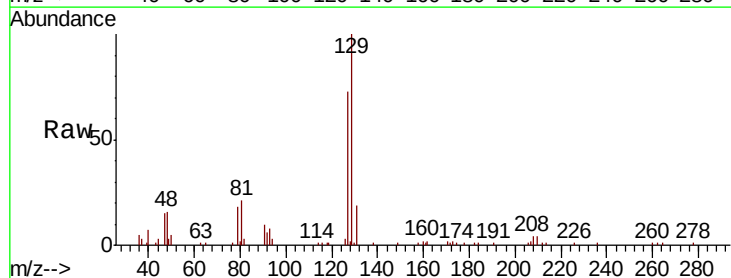
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT4-2018 0.03 LOD

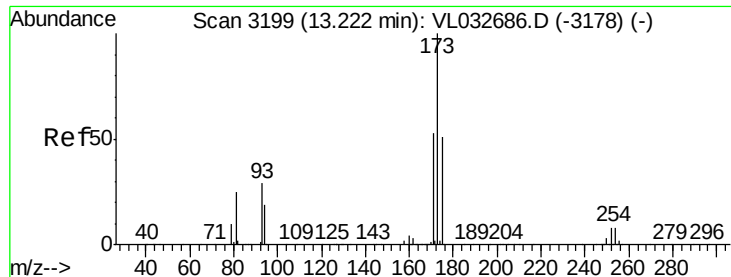
Tgt Ion: 97 Resp: 20383
 Ion Ratio Lower Upper
 97 100
 83 72.3 73.5 110.3#
 85 40.3 45.8 68.6#
 99 66.8 50.6 75.8



#48
 Dibromochloromethane
 Concen: 0.272 ppbv
 RT: 10.46 min Scan# 2341
 Delta R.T. -0.01 min
 Lab File: VL032696.D
 Acq: 24 Oct 2018 20:30

Tgt Ion: 129 Resp: 58537
 Ion Ratio Lower Upper
 129 100
 127 79.3 39.1 117.5





#49

Bromoform

Concen: 0.145 ppbv

RT: 13.21 min Scan# 3196

Delta R.T. -0.01 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2018 0.03 LOD

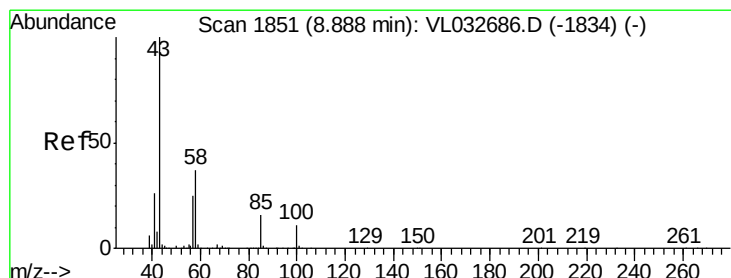
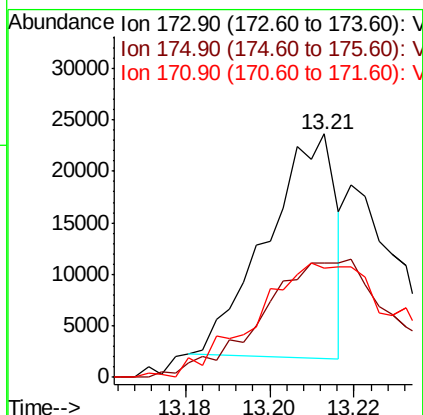
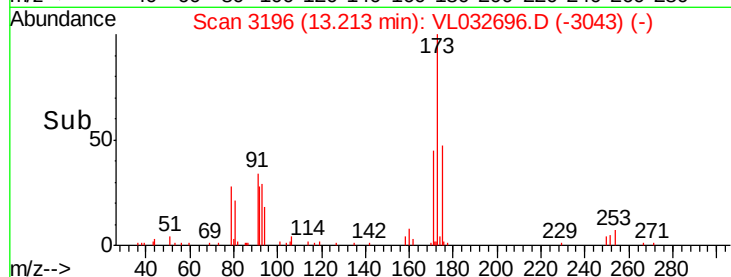
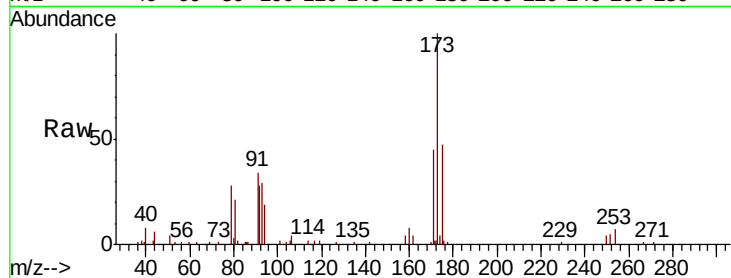
Tgt Ion:173 Resp: 24573

Ion Ratio Lower Upper

173 100

175 0.0 39.0 58.4#

171 106.3 42.2 63.2#



#50

4-Methyl-2-Pentanone

Concen: 0.250 ppbv

RT: 8.91 min Scan# 1857

Delta R.T. 0.02 min

Lab File: VL032696.D

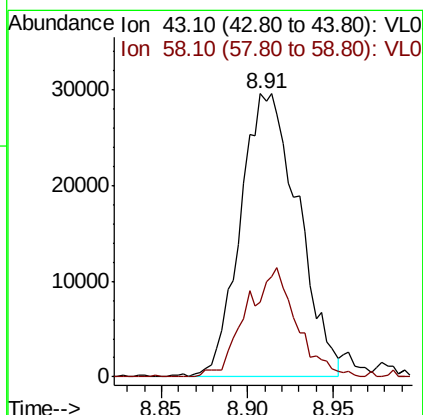
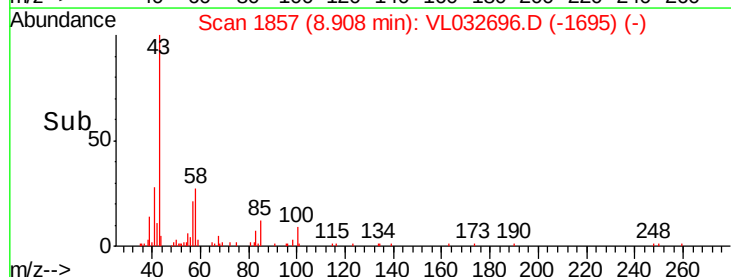
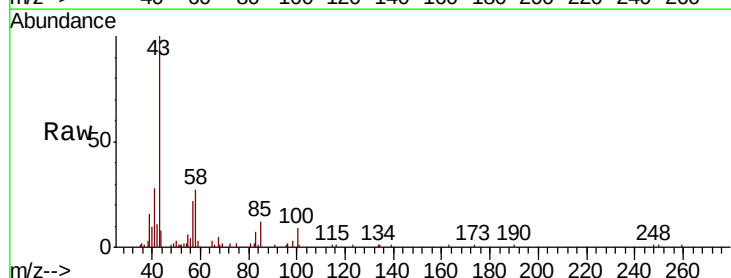
Acq: 24 Oct 2018 20:30

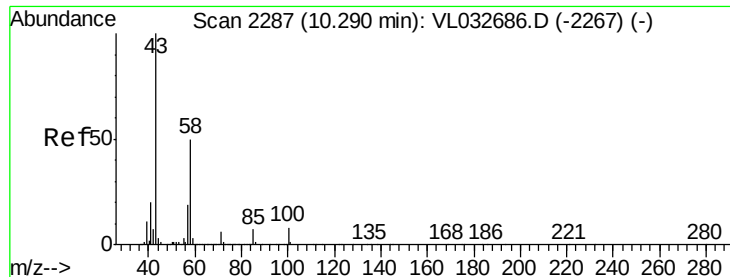
Tgt Ion: 43 Resp: 69177

Ion Ratio Lower Upper

43 100

58 33.6 29.7 44.5





#51

2-Hexanone

Concen: 0.111 ppbv

RT: 10.32 min Scan# 2295

Delta R.T. 0.03 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Instrument:

MSVOA_L

ClientSampleId:

MDL-AIR-03-QT4-2018 0.03 LOD

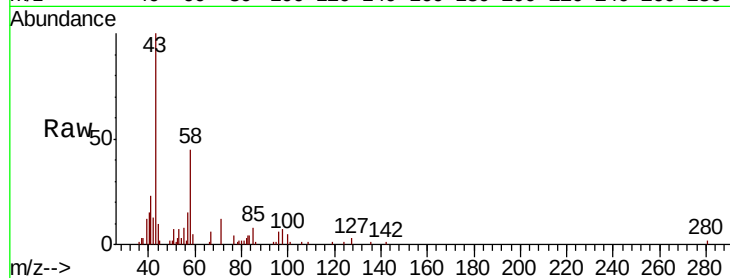
Tgt Ion: 43 Resp: 22720

Ion Ratio Lower Upper

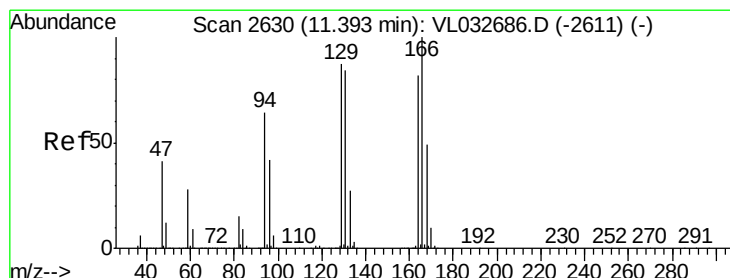
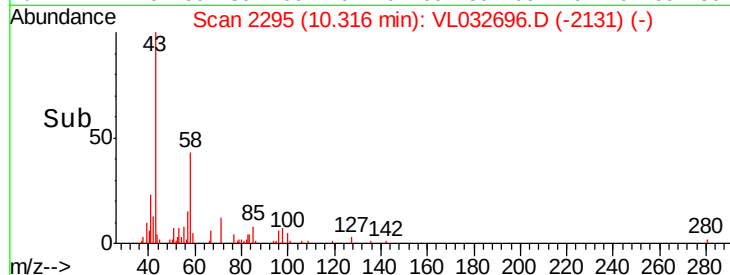
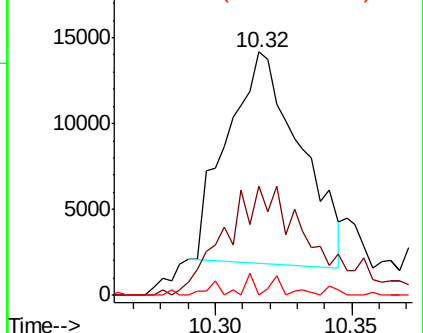
43 100

58 68.0 40.4 60.6#

98 5.5 0.4 0.6#



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: 0.235 ppbv

RT: 11.39 min Scan# 2630

Delta R.T. -0.00 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Tgt Ion: 164 Resp: 23198

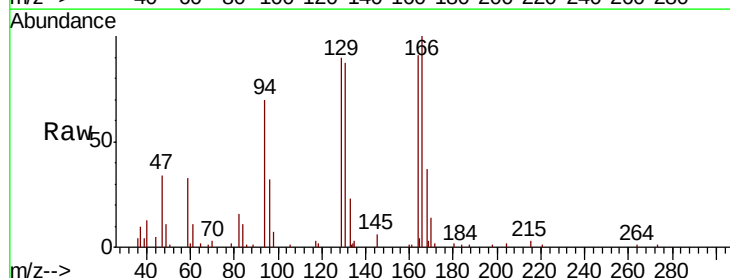
Ion Ratio Lower Upper

164 100

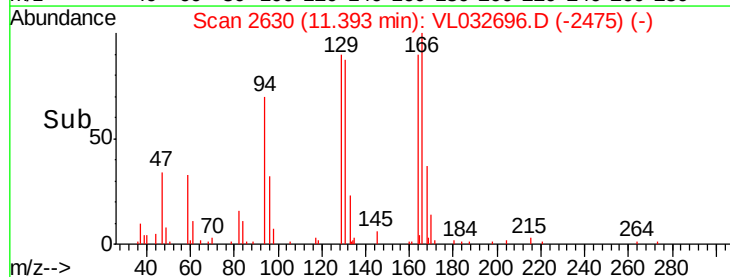
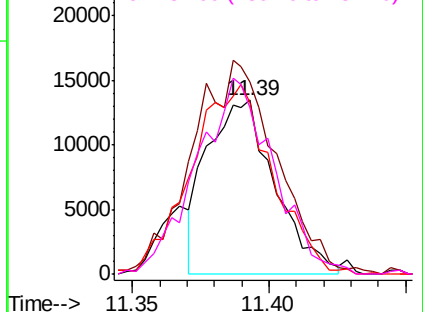
166 110.8 100.5 150.7

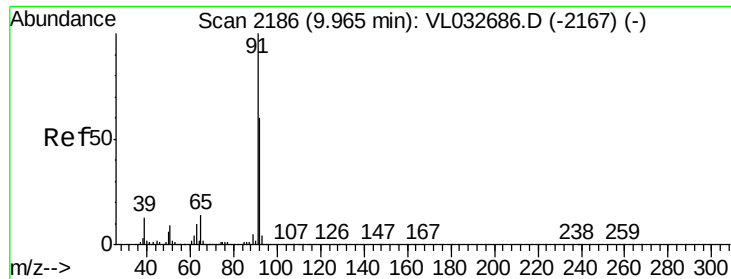
129 100.6 90.0 135.0

131 94.7 86.6 129.8



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: 0.080 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Instrument :

MSVOA_L

ClientSampleId :

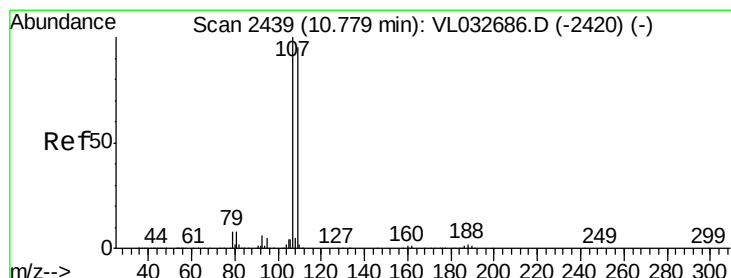
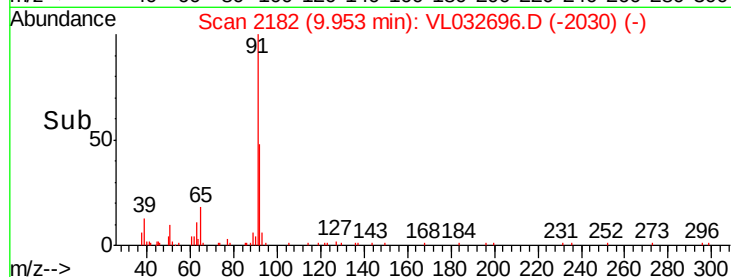
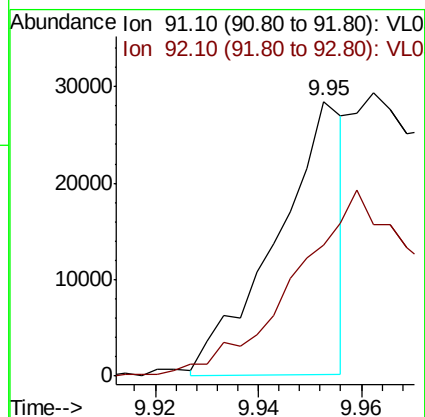
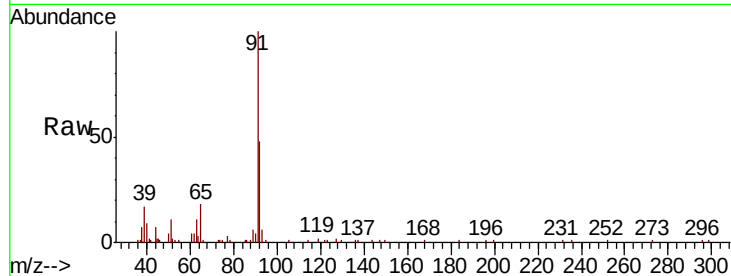
MDL-AIR-03-QT4-2018 0.03 LOD

Tgt Ion: 91 Resp: 25790

Ion Ratio Lower Upper

91 100

92 0.0 48.4 72.6#



#54

1,2-Dibromoethane

Concen: 0.096 ppbv

RT: 10.76 min Scan# 2434

Delta R.T. -0.01 min

Lab File: VL032696.D

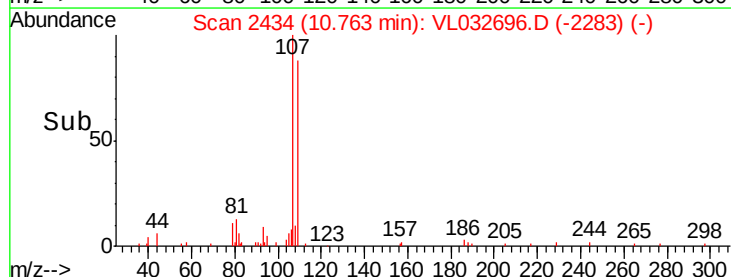
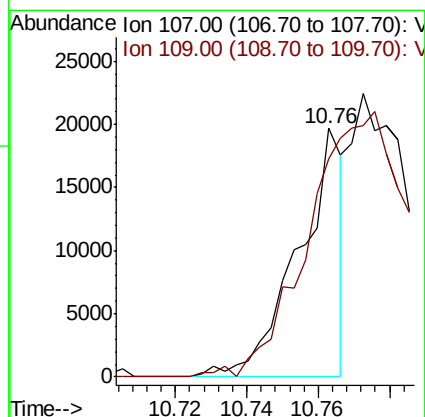
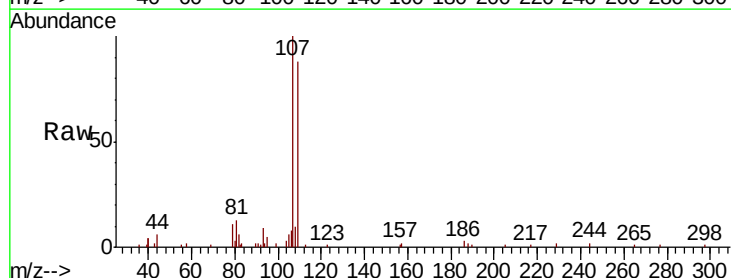
Acq: 24 Oct 2018 20:30

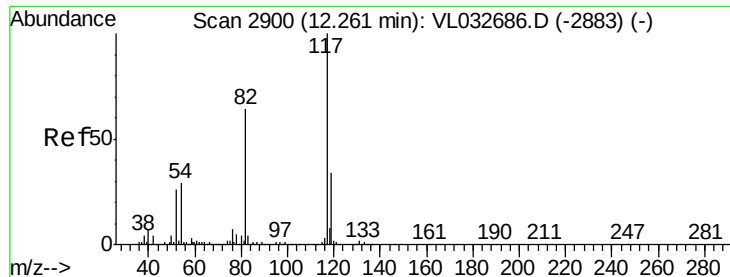
Tgt Ion: 107 Resp: 16883

Ion Ratio Lower Upper

107 100

109 87.9 75.3 112.9

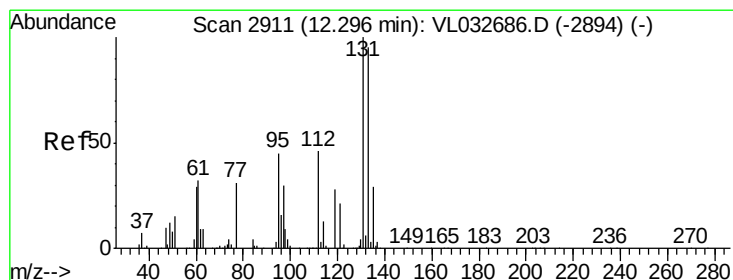
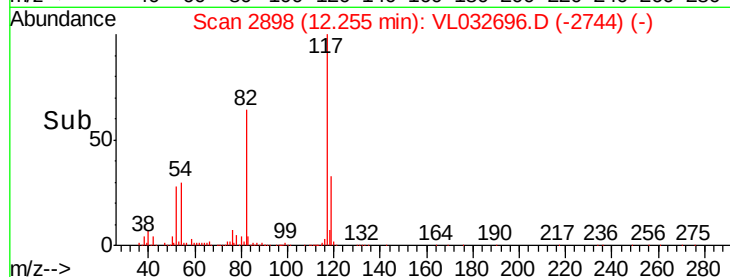
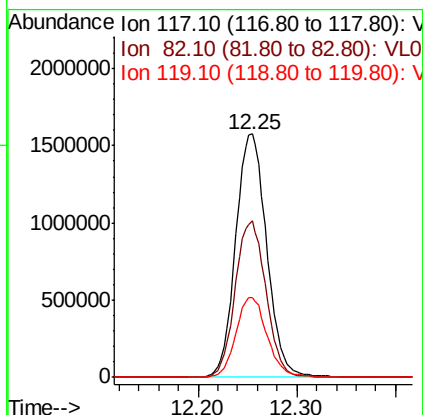
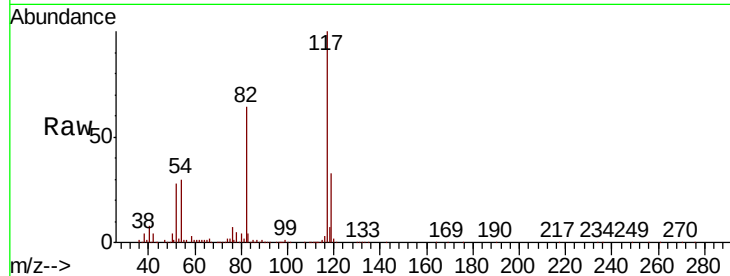




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2898
Delta R.T. -0.00 min
Lab File: VL032696.D
Acq: 24 Oct 2018 20:30

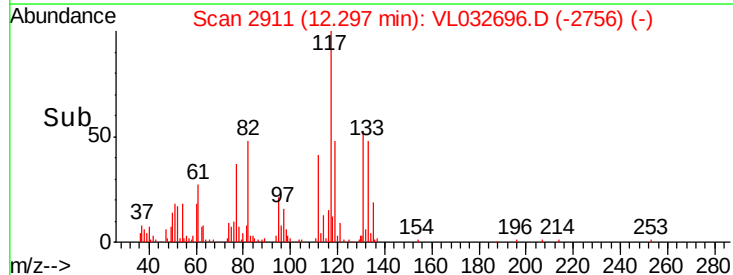
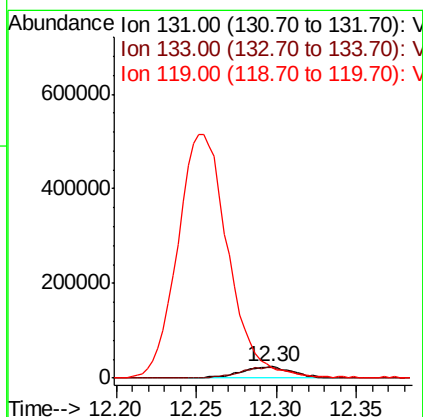
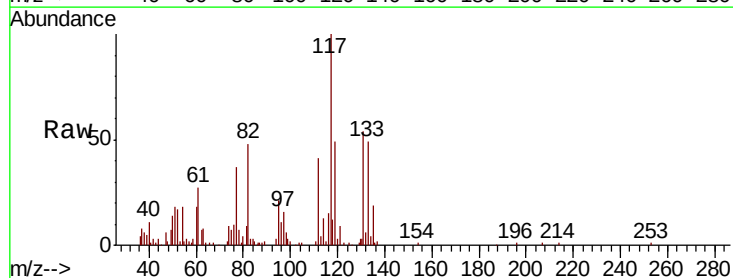
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2018 0.03 LOD

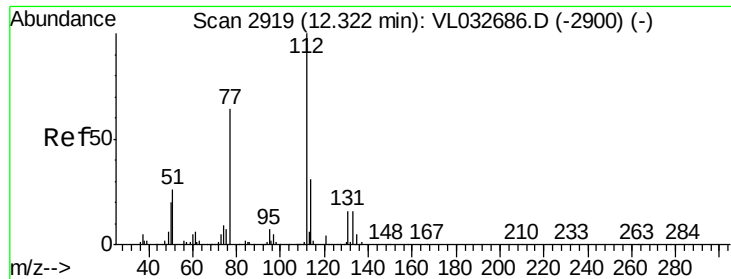
Tgt Ion:117 Resp: 3441464
Ion Ratio Lower Upper
117 100
82 64.1 52.7 79.1
119 33.3 26.7 40.1



#56
1,1,1,2-Tetrachloroethane
Concen: 0.355 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. -0.00 min
Lab File: VL032696.D
Acq: 24 Oct 2018 20:30

Tgt Ion:131 Resp: 53353
Ion Ratio Lower Upper
131 100
133 94.7 75.4 113.2
119 2146.2 49.1 73.7#

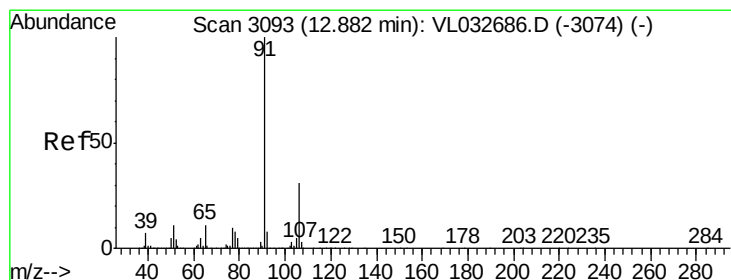
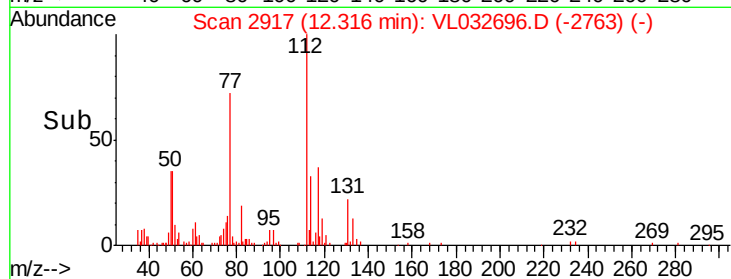
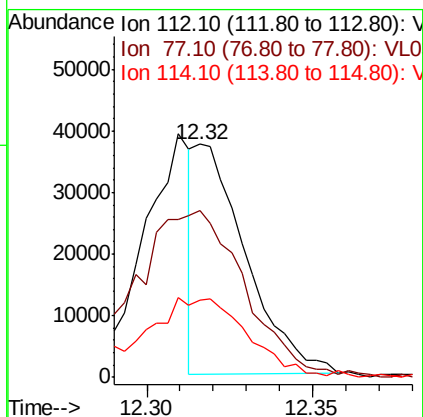
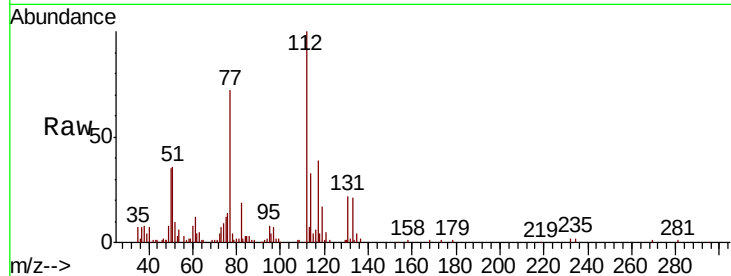




#57
Chlorobenzene
Concen: 0.156 ppbv
RT: 12.32 min Scan# 2917
Delta R.T. -0.00 min
Lab File: VL032696.D
Acq: 24 Oct 2018 20:30

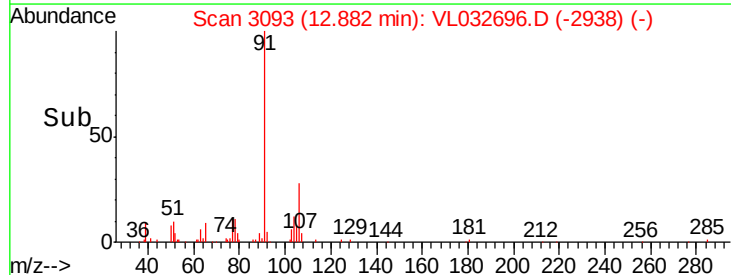
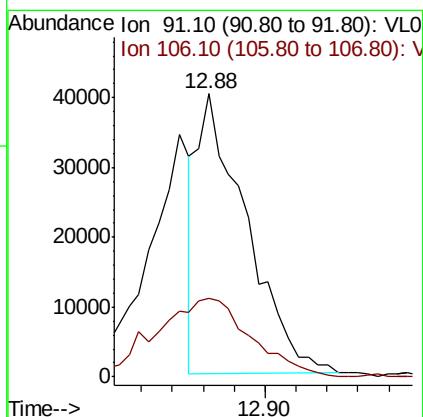
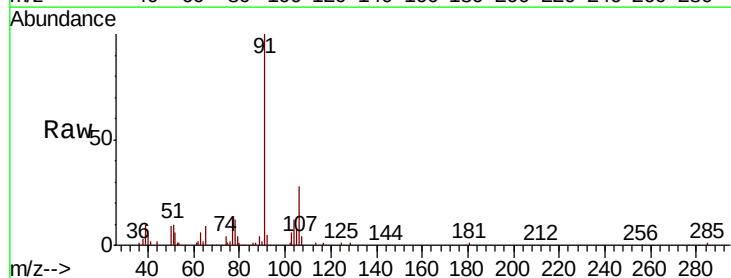
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2018 0.03 LOD

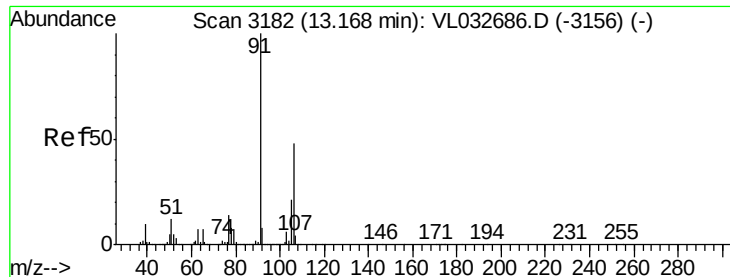
Tgt Ion: 112 Resp: 39457
Ion Ratio Lower Upper
112 100
77 71.7 56.8 85.2
114 30.6 30.3 37.1



#58
Ethyl Benzene
Concen: 0.110 ppbv
RT: 12.88 min Scan# 3093
Delta R.T. -0.00 min
Lab File: VL032696.D
Acq: 24 Oct 2018 20:30

Tgt Ion: 91 Resp: 43823
Ion Ratio Lower Upper
91 100
106 28.1 24.2 36.2





#59

m/p-Xylene

Concen: 0.253 ppbv

RT: 13.16 min Scan# 3180

Delta R.T. -0.01 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Instrument :

MSVOA_L

ClientSampleId :

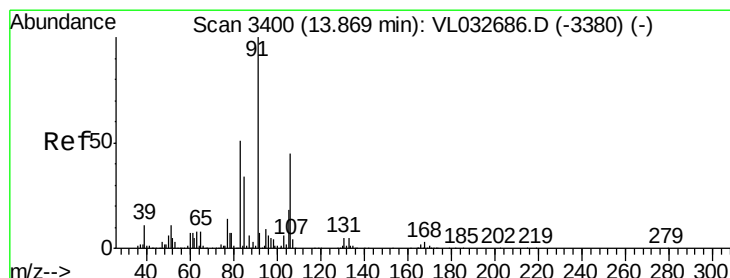
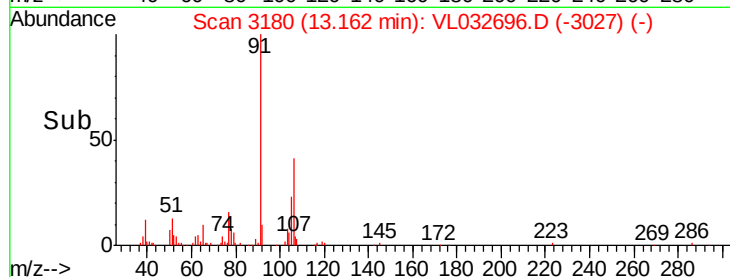
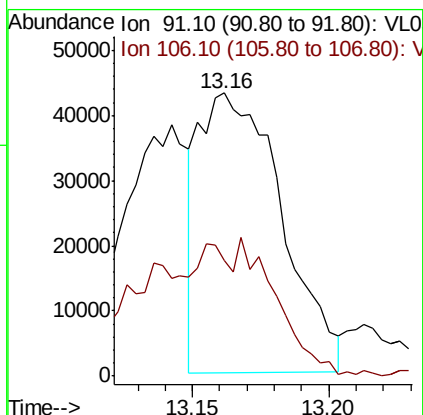
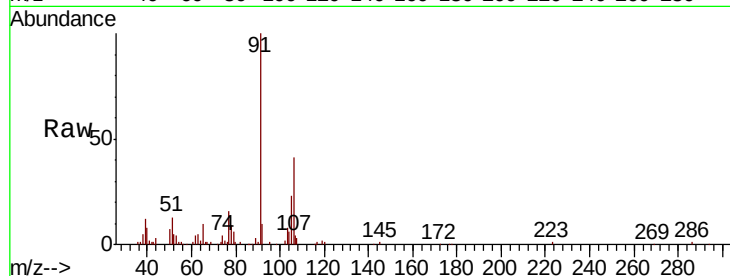
MDL-AIR-03-QT4-2018 0.03 LOD

Tgt Ion: 91 Resp: 90002

Ion Ratio Lower Upper

91 100

106 79.2 35.9 53.9#



#60

o-Xylene

Concen: 0.213 ppbv

RT: 13.87 min Scan# 3399

Delta R.T. -0.00 min

Lab File: VL032696.D

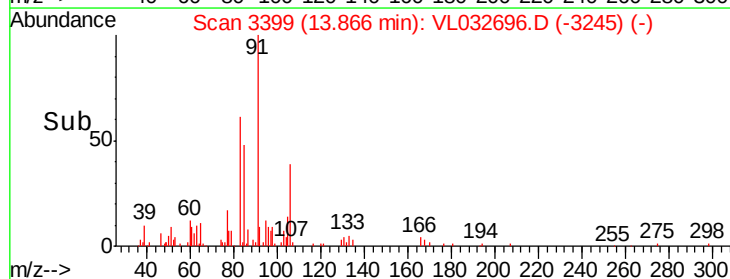
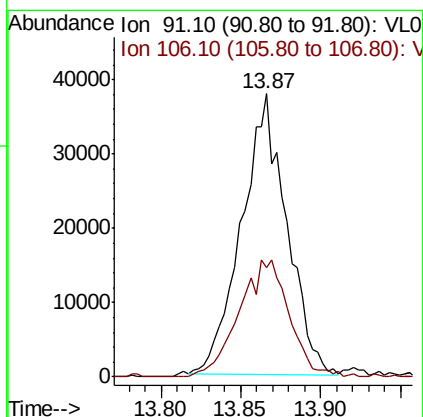
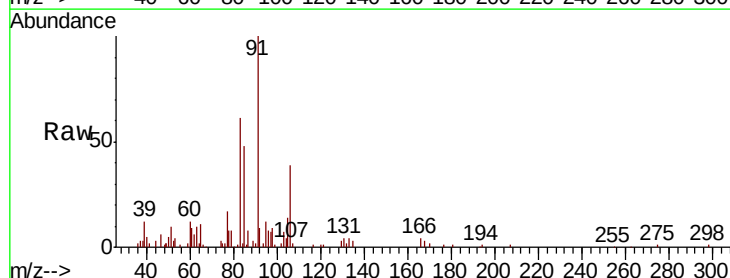
Acq: 24 Oct 2018 20:30

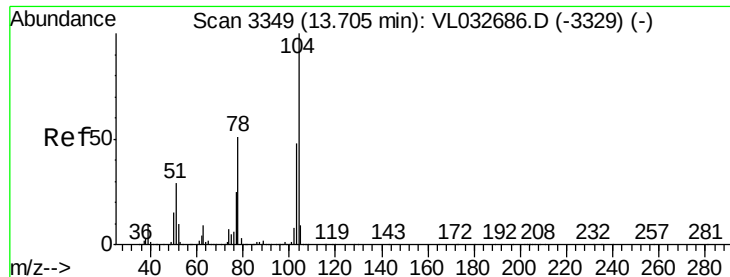
Tgt Ion: 91 Resp: 73230

Ion Ratio Lower Upper

91 100

106 46.3 22.1 66.1

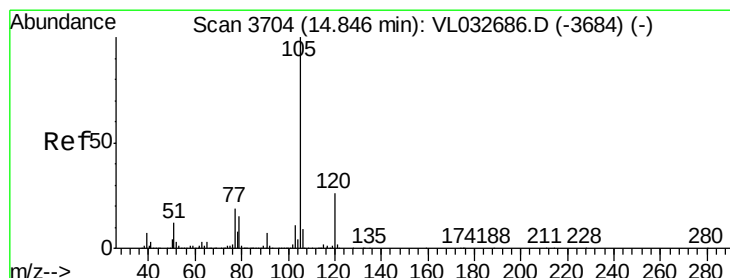
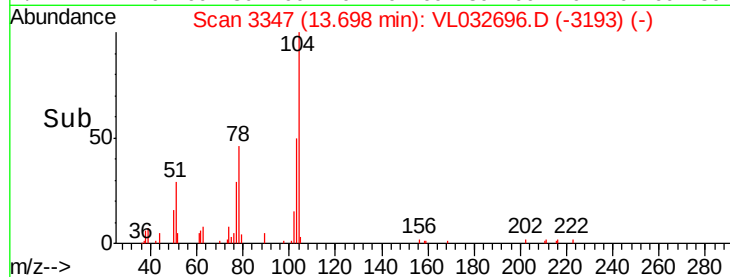
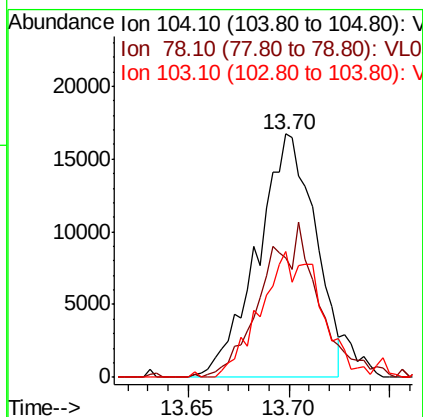
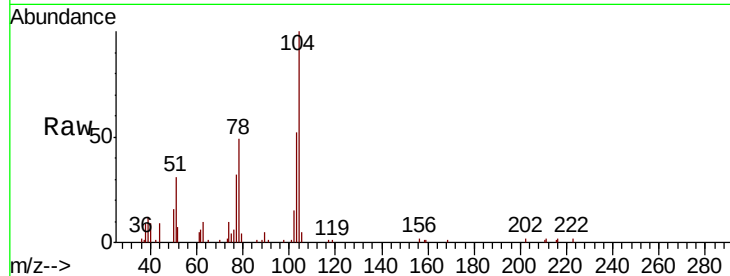




#61
Styrene
Concen: 0.144 ppbv
RT: 13.70 min Scan# 3347
Delta R.T. -0.00 min
Lab File: VL032696.D
Acq: 24 Oct 2018 20:30

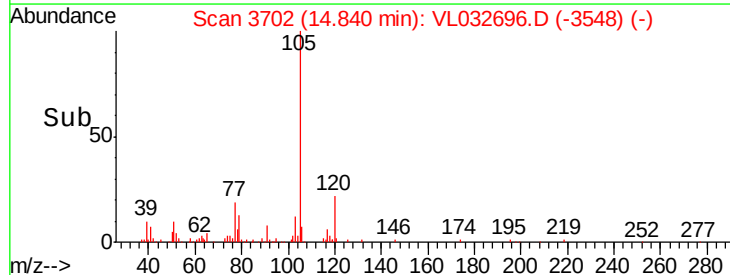
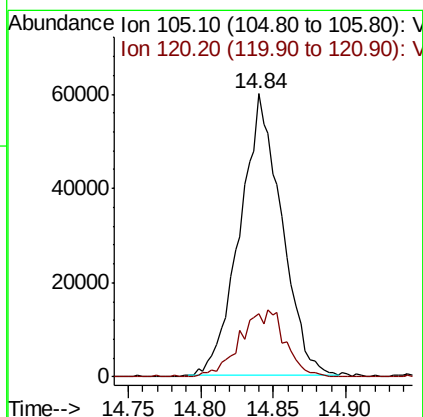
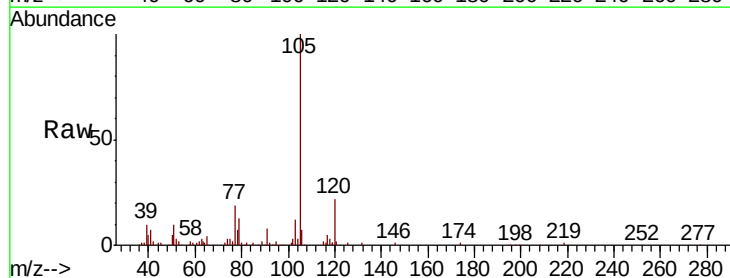
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2018 0.03 LOD

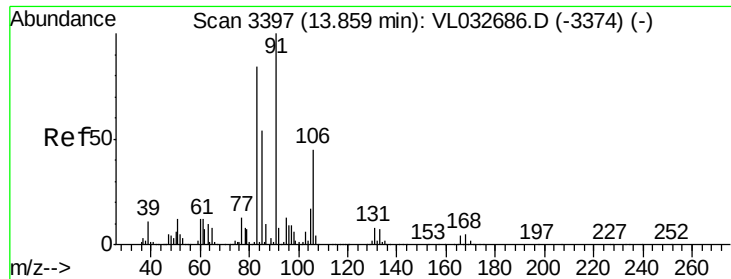
Tgt Ion:104 Resp: 33241
Ion Ratio Lower Upper
104 100
78 62.9 42.8 64.2
103 55.9 37.4 56.0



#62
Isopropylbenzene
Concen: 0.245 ppbv
RT: 14.84 min Scan# 3702
Delta R.T. -0.00 min
Lab File: VL032696.D
Acq: 24 Oct 2018 20:30

Tgt Ion:105 Resp: 119061
Ion Ratio Lower Upper
105 100
120 26.1 20.5 30.7

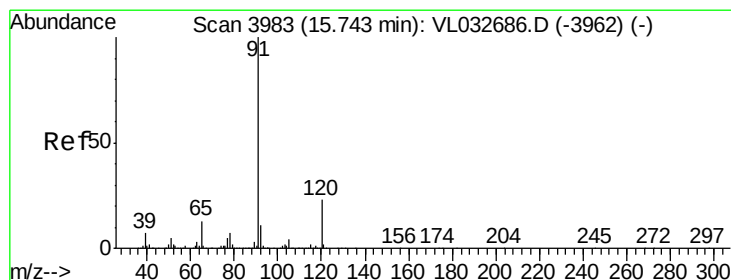
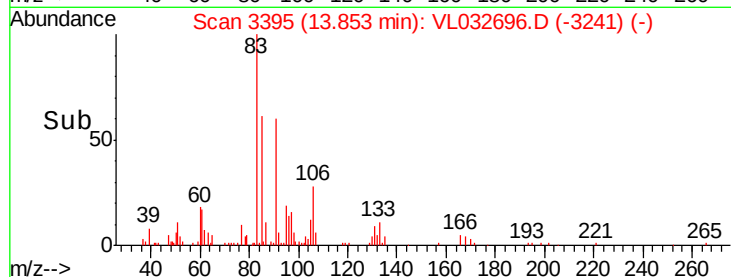
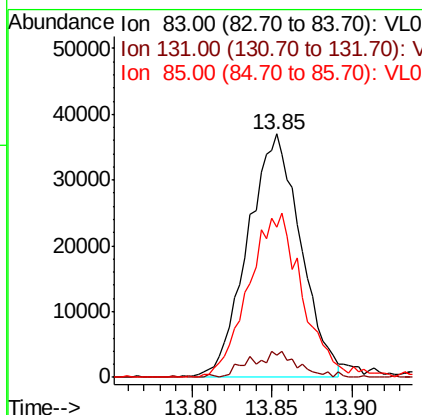
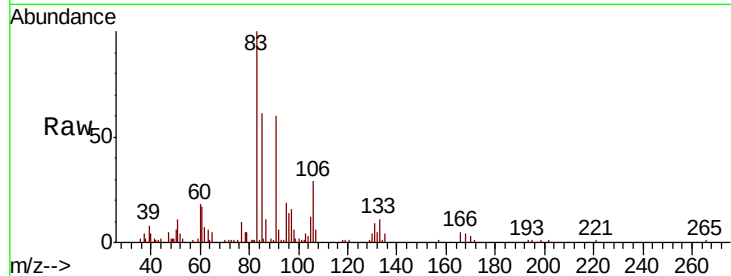




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.314 ppbv
 RT: 13.85 min Scan# 3395
 Delta R.T. -0.00 min
 Lab File: VL032696.D
 Acq: 24 Oct 2018 20:30

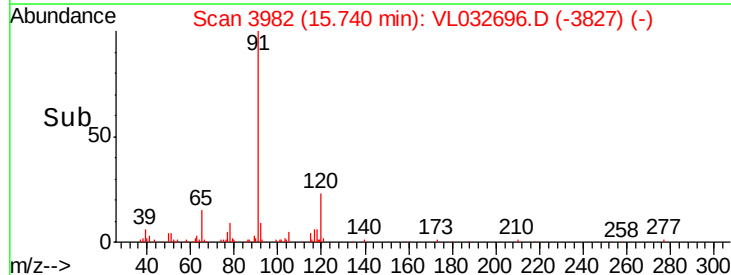
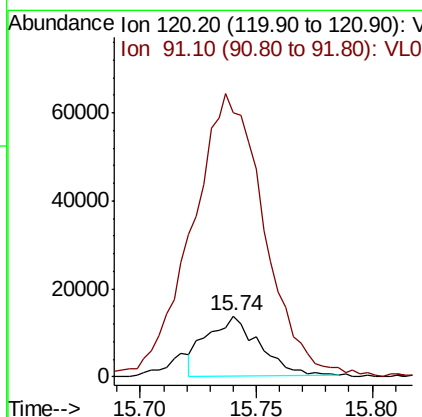
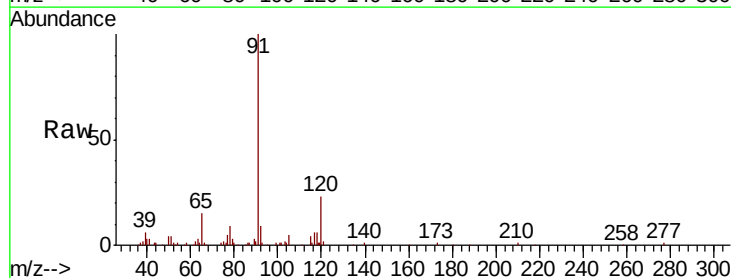
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT4-2018 0.03 LOD

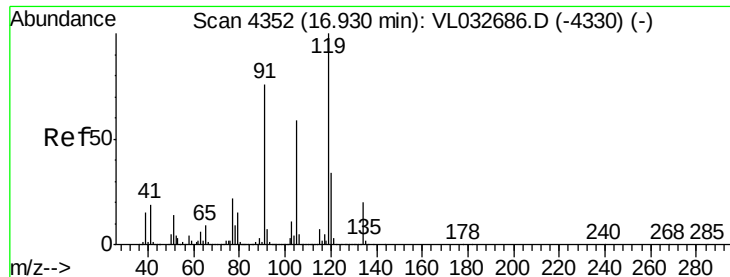
Tgt Ion: 83 Resp: 84434
 Ion Ratio Lower Upper
 83 100
 131 9.8 4.3 12.9
 85 69.3 32.3 96.9



#64
 n-propylbenzene
 Concen: 0.175 ppbv
 RT: 15.74 min Scan# 3982
 Delta R.T. -0.00 min
 Lab File: VL032696.D
 Acq: 24 Oct 2018 20:30

Tgt Ion: 120 Resp: 21148
 Ion Ratio Lower Upper
 120 100
 91 656.7 390.2 585.2#





#65

tert-Butylbenzene

Concen: 0.065 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. -0.00 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2018 0.03 LOD

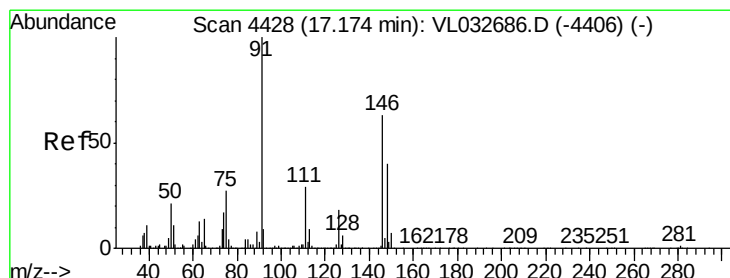
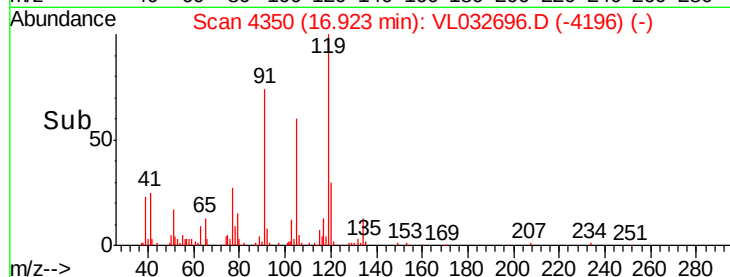
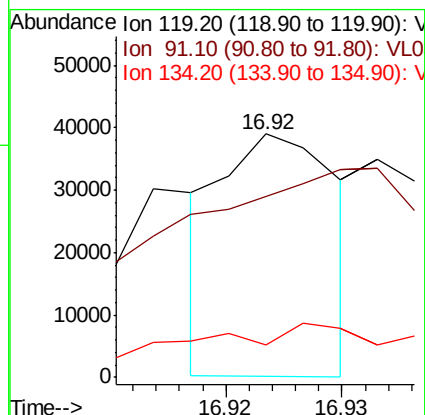
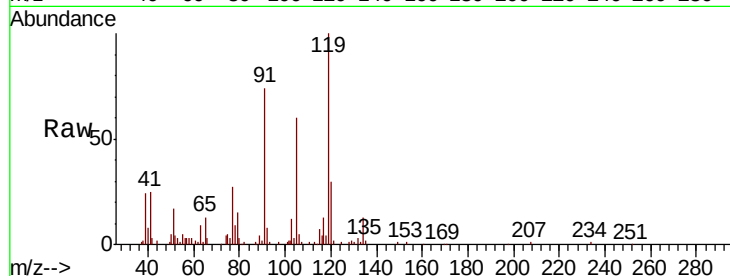
Tgt Ion: 119 Resp: 26813

Ion Ratio Lower Upper

119 100

91 0.0 67.8 101.8#

134 67.5 15.8 23.8#



#66

Benzyl Chloride

Concen: 0.089 ppbv

RT: 17.18 min Scan# 4429

Delta R.T. 0.00 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

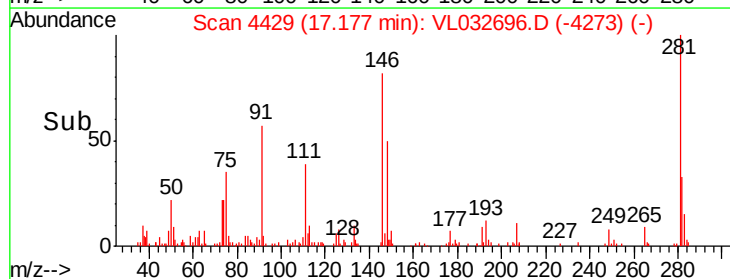
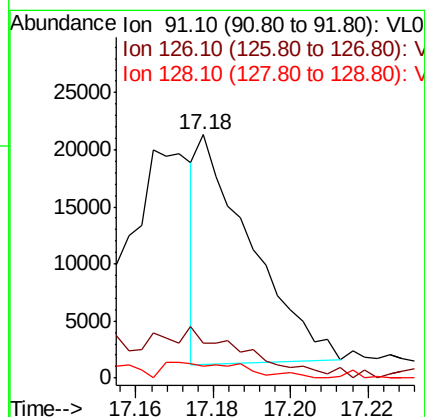
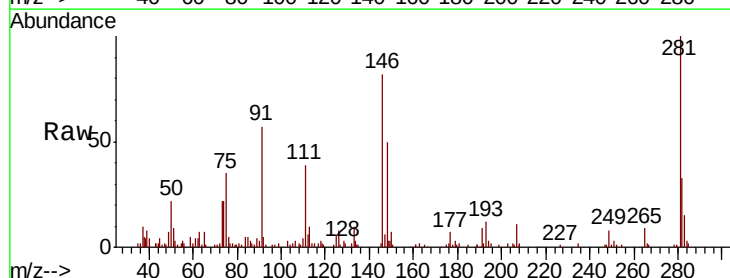
Tgt Ion: 91 Resp: 19054

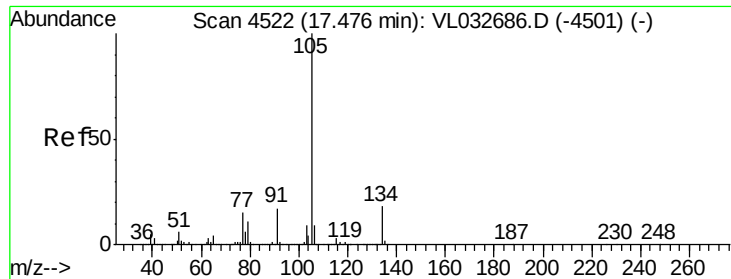
Ion Ratio Lower Upper

91 100

126 55.2 13.9 20.9#

128 0.0 4.3 6.5#





#67

sec-Butylbenzene

Concen: 0.143 ppbv

RT: 17.47 min Scan# 4521

Delta R.T. -0.00 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Instrument :

MSVOA_L

ClientSampleId :

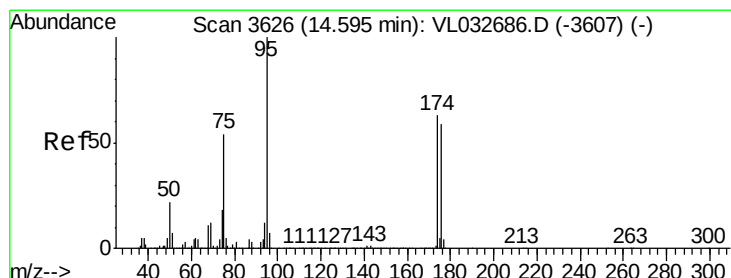
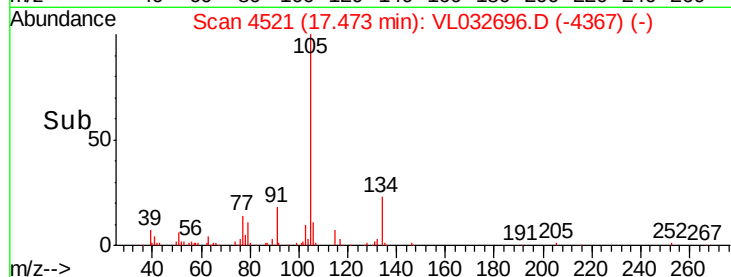
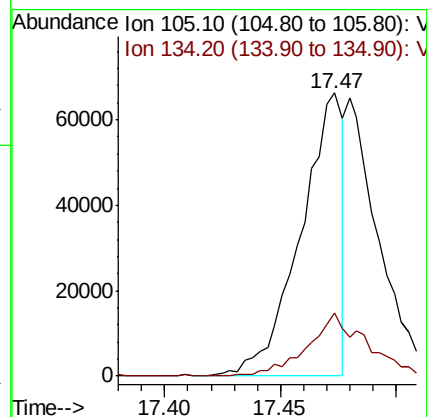
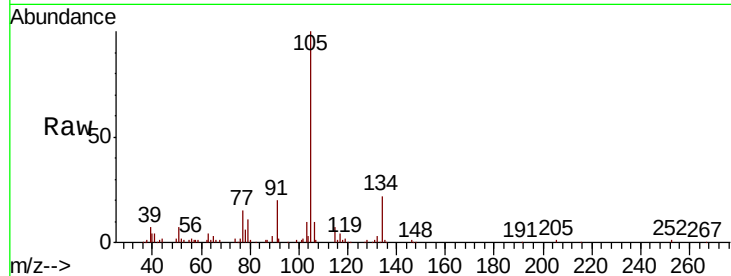
MDL-AIR-03-QT4-2018 0.03 LOD

Tgt Ion:105 Resp: 84122

Ion Ratio Lower Upper

105 100

134 32.3 14.2 21.2#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.238 ppbv

RT: 14.59 min Scan# 3624

Delta R.T. -0.00 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

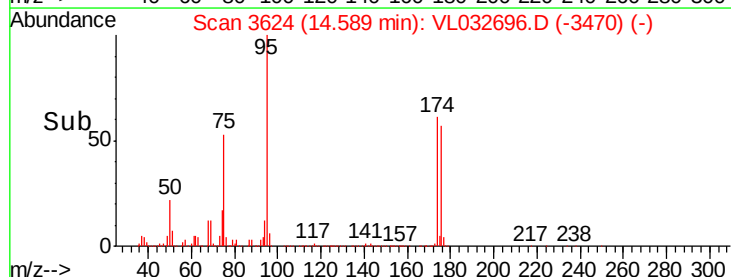
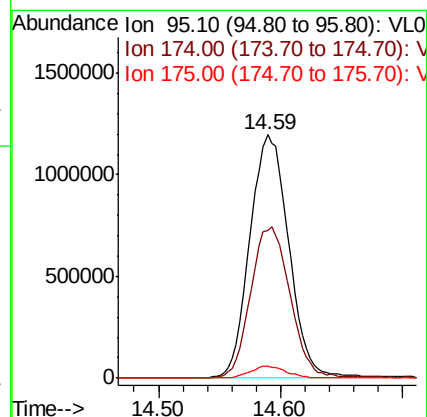
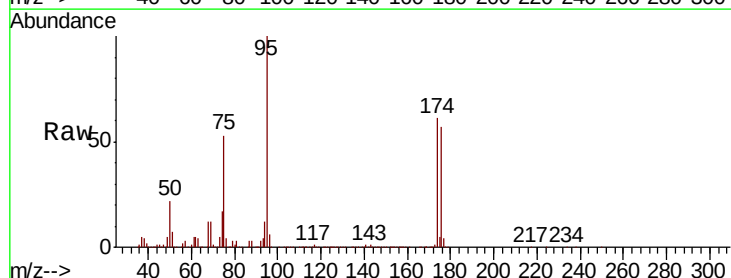
Tgt Ion: 95 Resp: 2623425

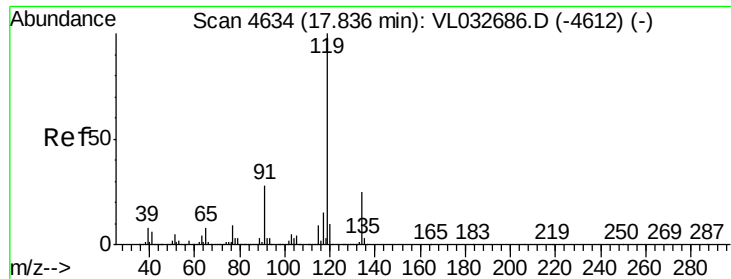
Ion Ratio Lower Upper

95 100

174 64.2 46.0 69.0

175 4.6 3.4 5.0





#69

p-Isopropyltoluene

Concen: 0.123 ppbv

RT: 17.83 min Scan# 4633

Delta R.T. -0.00 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

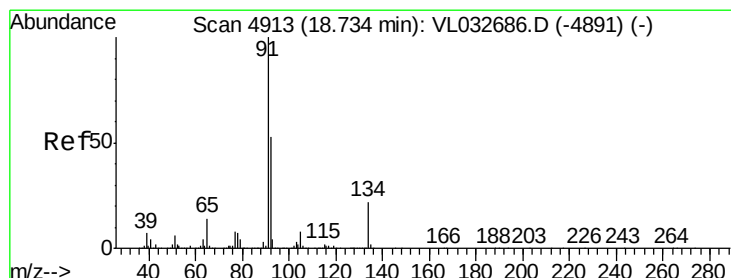
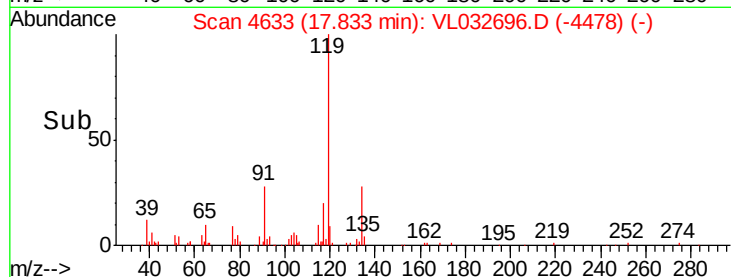
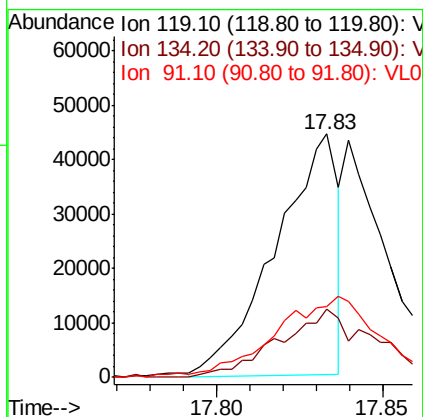
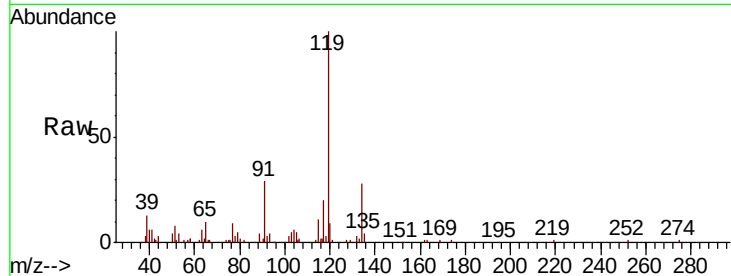
Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2018 0.03 LOD

Tgt Ion:	119	Resp:	57551
Ion	Ratio	Lower	Upper
119	100		
134	44.8	20.2	30.2#
91	59.1	24.0	36.0#



#70

n-Butylbenzene

Concen: 0.103 ppbv

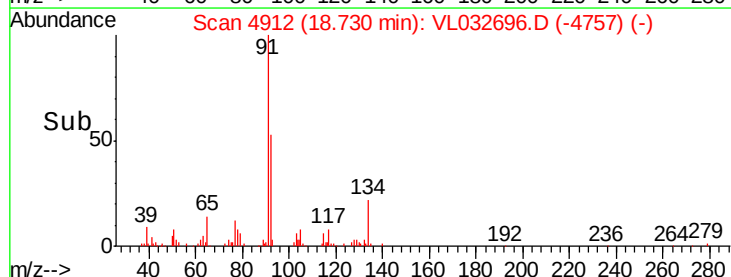
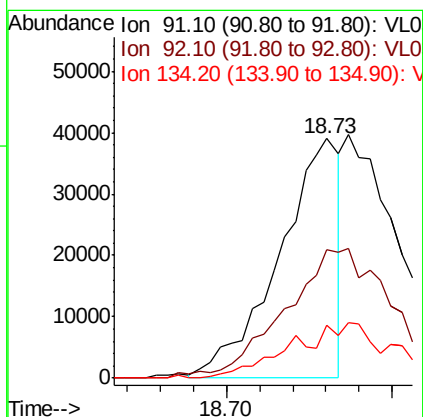
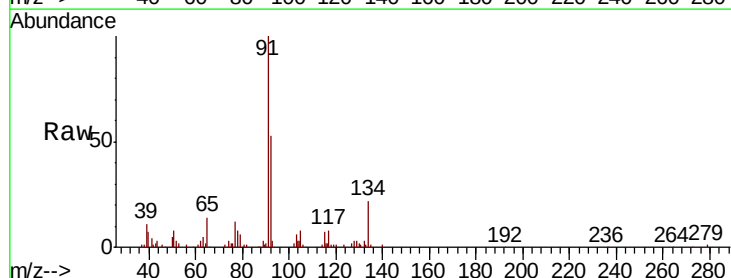
RT: 18.73 min Scan# 4912

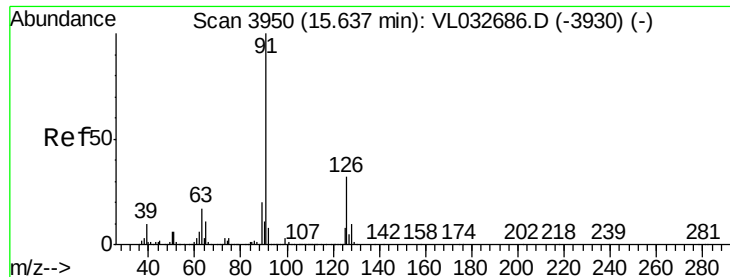
Delta R.T. -0.00 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Tgt Ion:	91	Resp:	49501
Ion	Ratio	Lower	Upper
91	100		
92	0.0	43.0	64.4#
134	0.0	17.0	25.6#





#71

2-Chlorotoluene

Concen: 0.104 ppbv

RT: 15.63 min Scan# 3947

Delta R.T. -0.01 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Instrument :

MSVOA_L

ClientSampleId :

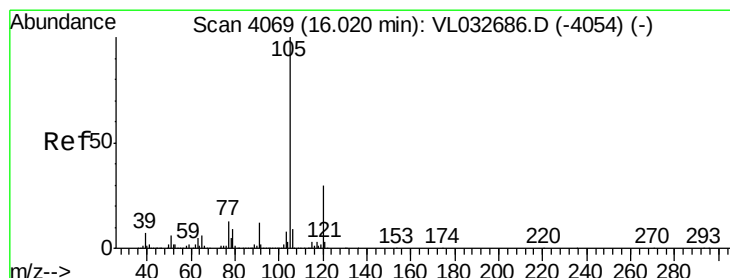
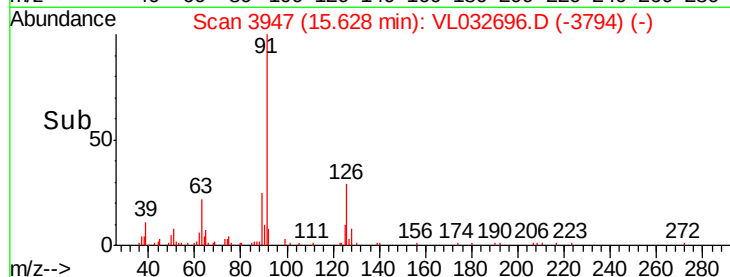
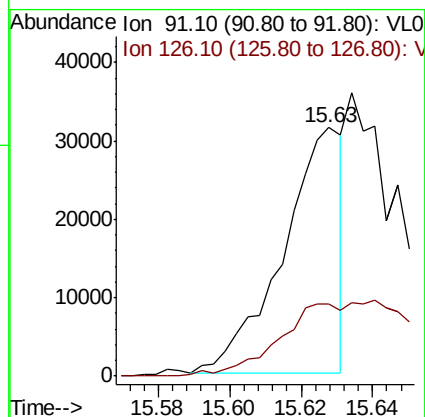
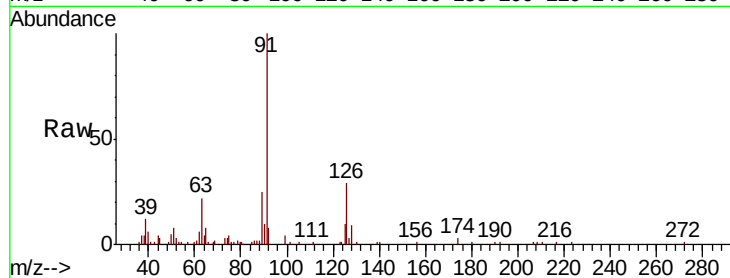
MDL-AIR-03-QT4-2018 0.03 LOD

Tgt Ion: 91 Resp: 36092

Ion Ratio Lower Upper

91 100

126 0.0 11.8 47.4#



#72

4-Ethyltoluene

Concen: 0.185 ppbv

RT: 16.01 min Scan# 4067

Delta R.T. -0.00 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Tgt Ion: 105 Resp: 67540

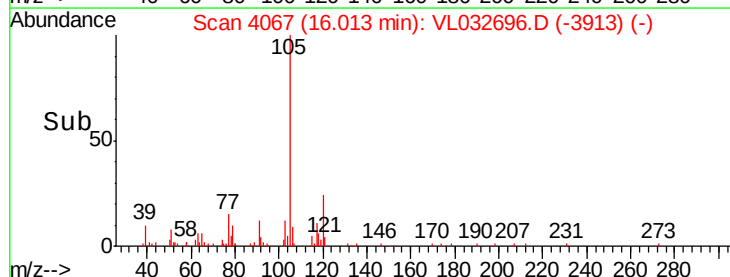
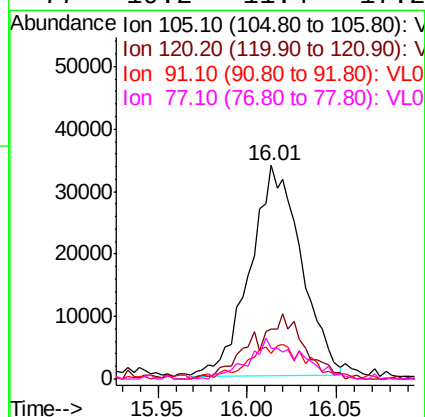
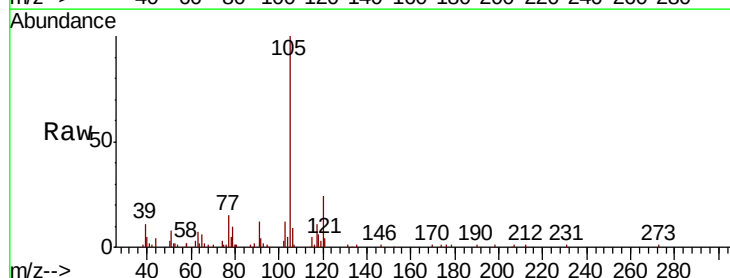
Ion Ratio Lower Upper

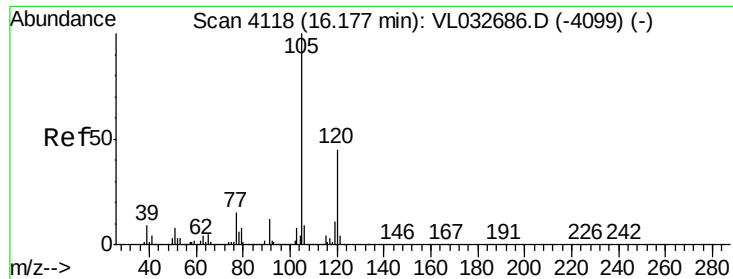
105 100

120 31.8 23.7 35.5

91 20.3 10.4 15.6#

77 19.2 11.4 17.2#





#73

1,3,5-Trimethylbenzene

Concen: 0.205 ppbv

RT: 16.17 min Scan# 4116

Delta R.T. -0.01 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Instrument :

MSVOA_L

ClientSampleId :

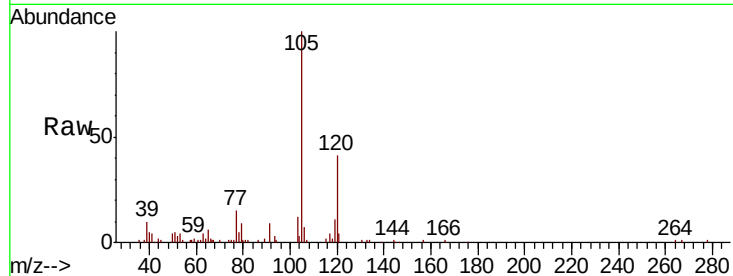
MDL-AIR-03-QT4-2018 0.03 LOD

Tgt Ion:105 Resp: 72994

Ion Ratio Lower Upper

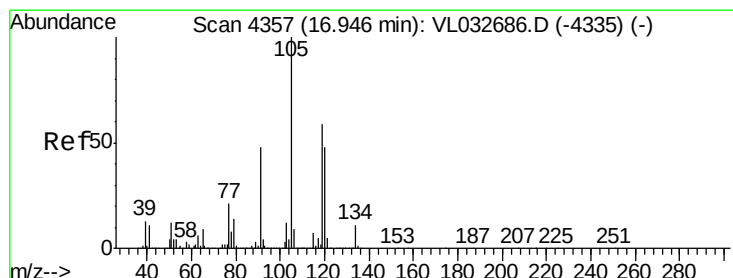
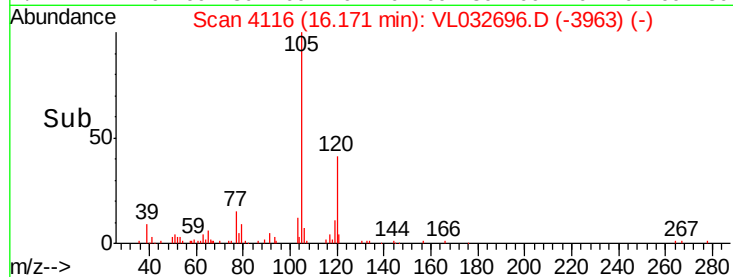
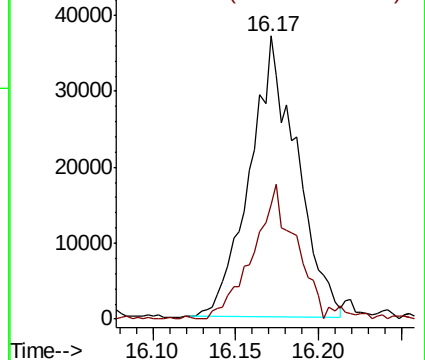
105 100

120 44.7 35.4 53.2



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: 0.237 ppbv

RT: 16.95 min Scan# 4357

Delta R.T. -0.00 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Tgt Ion:105 Resp: 90000

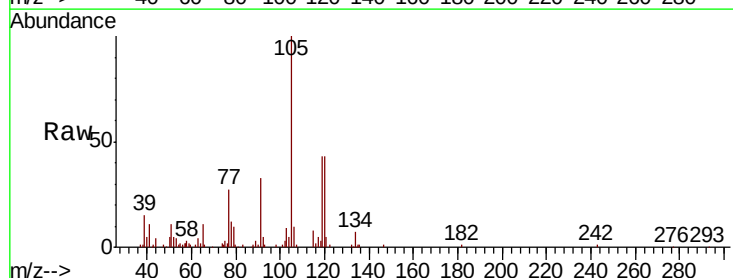
Ion Ratio Lower Upper

105 100

120 47.0 35.8 53.8

91 25.9 33.2 49.8#

77 23.9 16.2 24.4

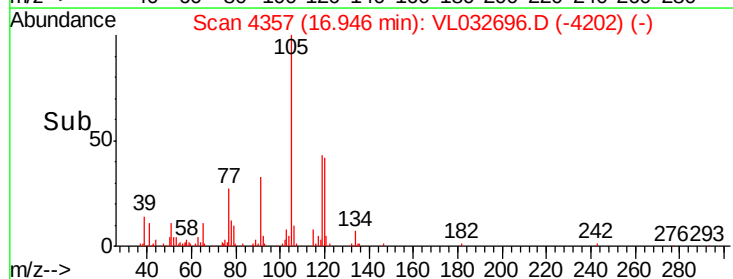
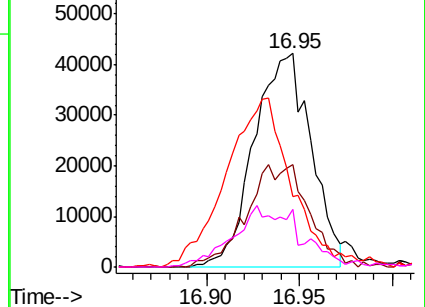


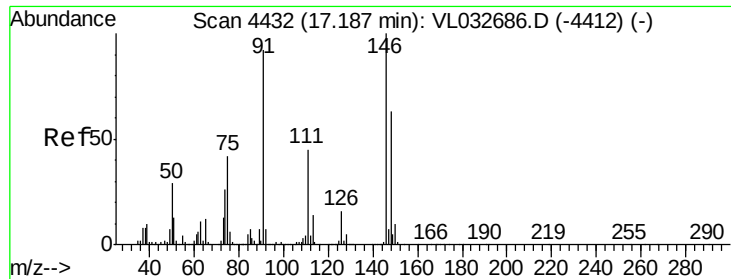
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

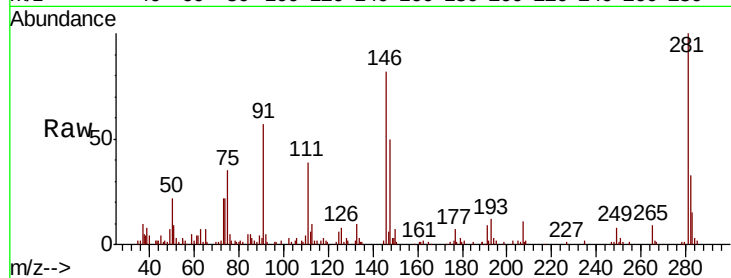




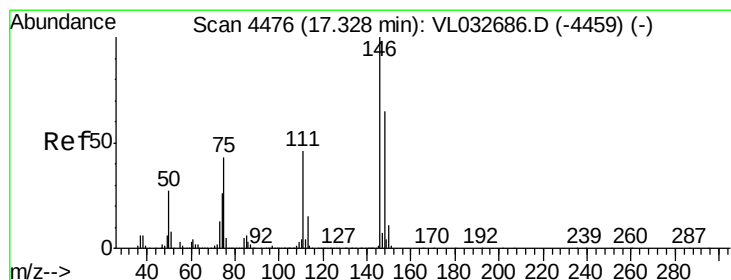
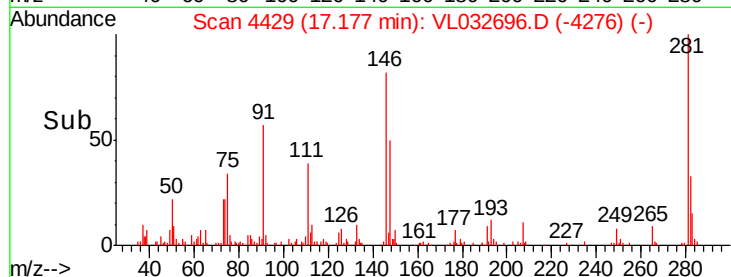
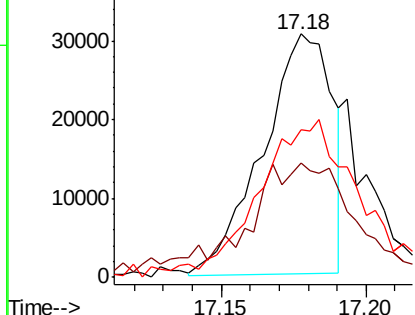
#75
 1,3-Dichlorobenzene
 Concen: 0.232 ppbv
 RT: 17.18 min Scan# 4429
 Delta R.T. -0.01 min
 Lab File: VL032696.D
 Acq: 24 Oct 2018 20:30

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT4-2018 0.03 LOD

Tgt Ion:146 Resp: 50788
 Ion Ratio Lower Upper
 146 100
 111 78.1 24.4 73.2#
 148 100.3 31.9 95.9#

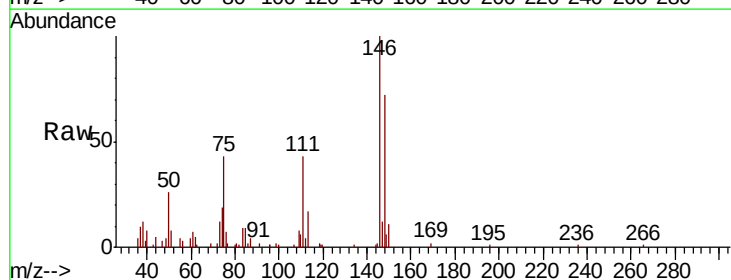


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

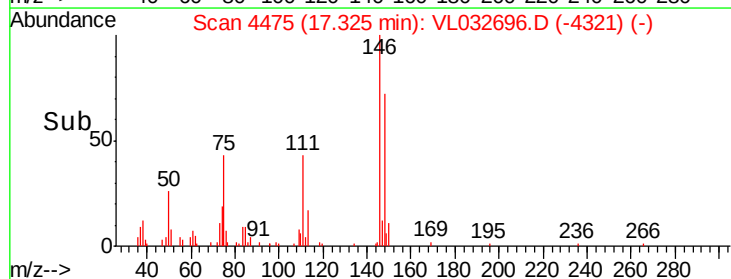
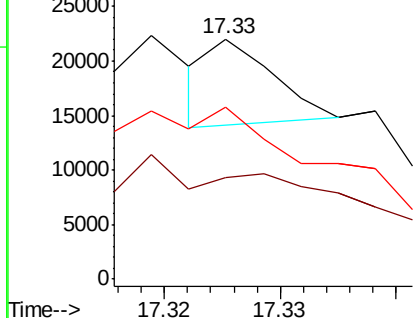


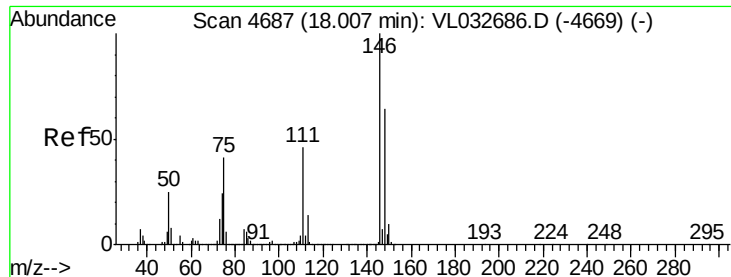
#76
 1,4-Dichlorobenzene
 Concen: 0.015 ppbv
 RT: 17.33 min Scan# 4475
 Delta R.T. -0.00 min
 Lab File: VL032696.D
 Acq: 24 Oct 2018 20:30

Tgt Ion:146 Resp: 2971
 Ion Ratio Lower Upper
 146 100
 111 0.0 23.7 71.1#
 148 1261.6 32.1 96.3#



Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 0.170 ppbv

RT: 18.00 min Scan# 4686

Delta R.T. -0.00 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2018 0.03 LOD

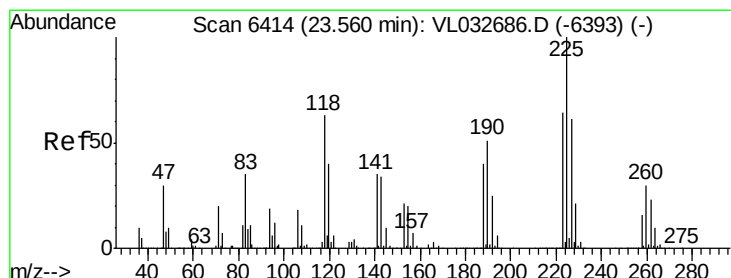
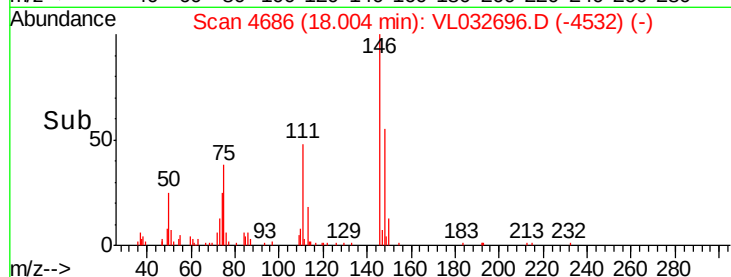
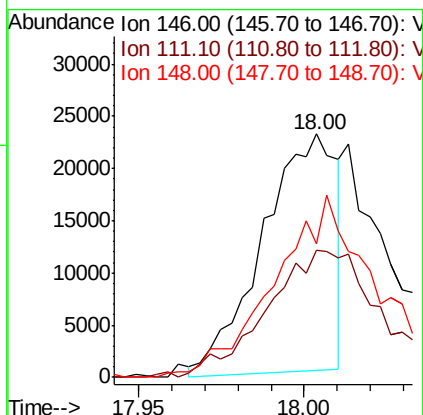
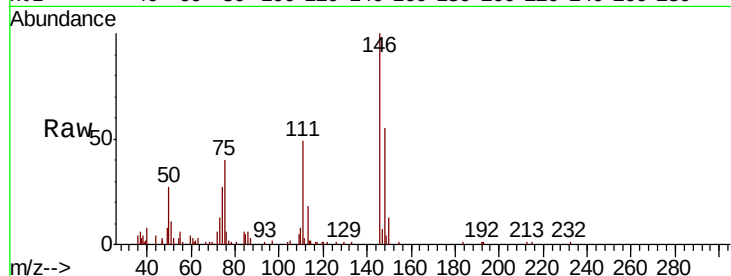
Tgt Ion:146 Resp: 35223

Ion Ratio Lower Upper

146 100

111 83.3 25.3 75.8#

148 108.7 31.9 95.9#



#78

Hexachloro-1,3-Butadiene

Concen: 0.353 ppbv

RT: 23.56 min Scan# 6414

Delta R.T. 0.01 min

Lab File: VL032696.D

Acq: 24 Oct 2018 20:30

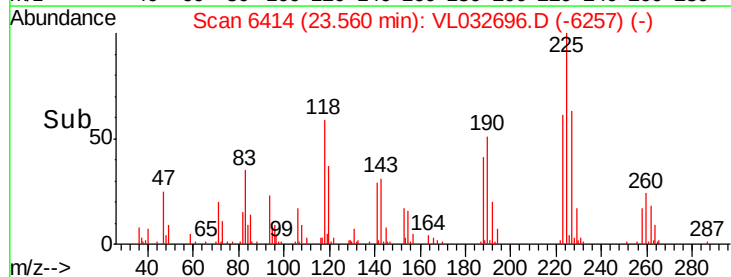
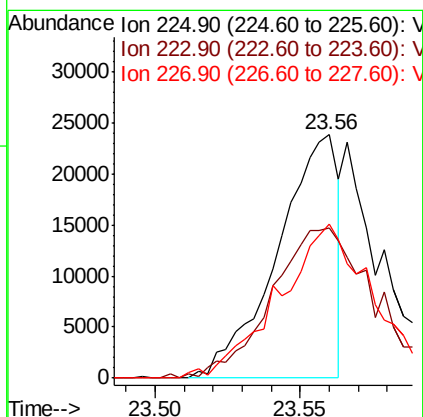
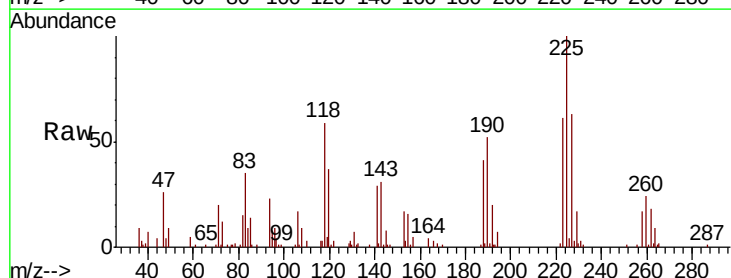
Tgt Ion:225 Resp: 34616

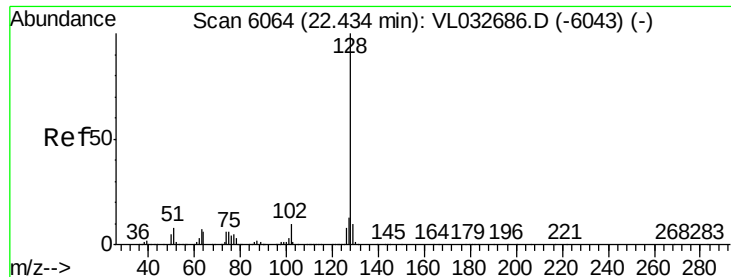
Ion Ratio Lower Upper

225 100

223 103.8 50.7 76.1#

227 98.0 50.7 76.1#

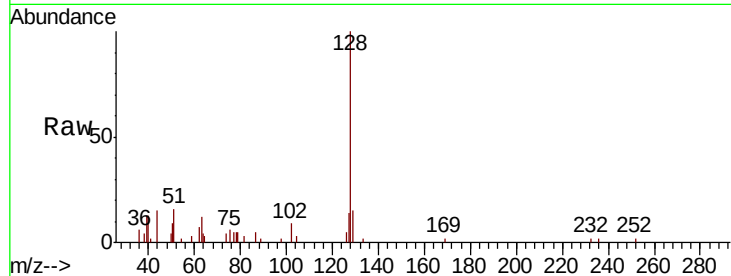




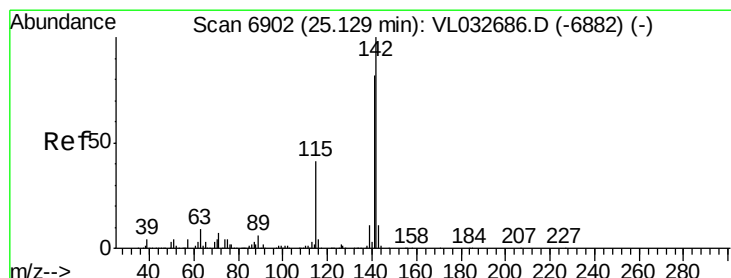
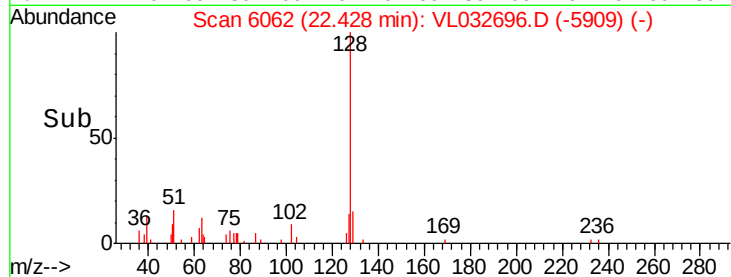
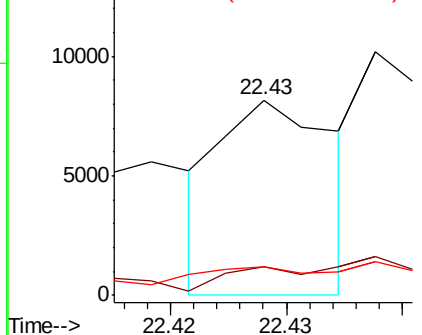
#79
Naphthalene
Concen: 0.023 ppbv
RT: 22.43 min Scan# 6062
Delta R.T. -0.01 min
Lab File: VL032696.D
Acq: 24 Oct 2018 20:30

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2018 0.03 LOD

Tgt Ion:128 Resp: 5545
Ion Ratio Lower Upper
128 100
127 33.2 10.3 15.5#
129 11.0 8.6 13.0

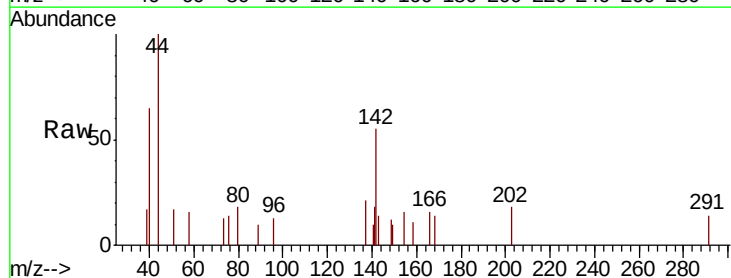


Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V

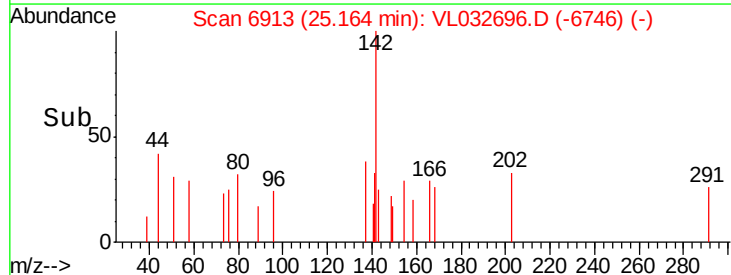
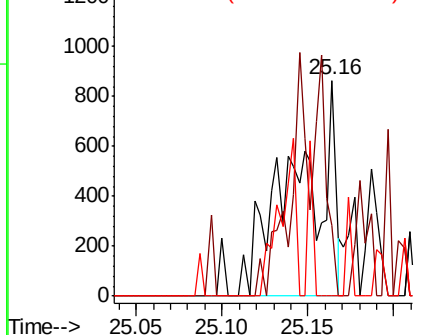


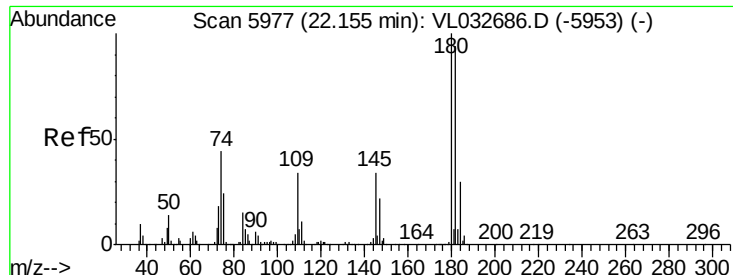
#80
Naphthalene, 2-methyl-
Concen: 0.024 ppbv
RT: 25.16 min Scan# 6913
Delta R.T. 0.04 min
Lab File: VL032696.D
Acq: 24 Oct 2018 20:30

Tgt Ion:142 Resp: 1375
Ion Ratio Lower Upper
142 100
141 85.8 67.5 101.3
115 38.5 33.5 50.3



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: 0.053 ppbv
 RT: 22.15 min Scan# 5977
 Delta R.T. -0.00 min
 Lab File: VL032696.D
 Acq: 24 Oct 2018 20:30

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT4-2018 0.03 LOD

Tgt Ion:180 Resp: 6471
 Ion Ratio Lower Upper
 180 100
 182 0.0 76.5 114.7#
 184 75.2 24.7 37.1#

