

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL010816\
 Data File : VL026662.D
 Acq On : 9 Jan 2016 5:47
 Operator : SY/AP
 Sample : H1002-18
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-4

Quant Time: Jan 12 02:03:22 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 11 17:14:02 2016
 QLast Update : Mon Jan 11 17:14:02 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.63	49	649795	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.31	114	2126730	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.72	117	2882130	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.26	95	2396735	10.43	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.30%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.63	85	91861	0.53	ppbv	96
3) Chlorodifluoromethane	3.56	51	40218	0.46	ppbv	91
4) Chloromethane	3.74	50	16823	0.40	ppbv	89
5) Vinyl Chloride	3.88	62	20168	0.39	ppbv	91
6) Bromomethane	4.13	94	17595	0.48	ppbv	92
7) Chloroethane	4.23	64	9697	0.47	ppbv	100
8) Dichlorotetrafluoroethane	3.79	85	67255	0.50	ppbv	98
9) Propene	3.59	41	11038	0.35	ppbv	95
10) Heptane	9.34	43	42623	0.37	ppbv	89
11) Trichlorofluoromethane	4.68	101	95759	0.53	ppbv	88
12) 1,1,2-Trichlorotrifluoroet	5.29	101	56245	0.51	ppbv	100
13) Ethanol	4.33	45	575	0.10	ppbv #	44
14) Bromoethene	4.44	108	17546	0.44	ppbv #	93
15) Acetone	4.62	43	64507	0.60	ppbv #	62
16) 1,3-Butadiene	3.96	39	18766	0.44	ppbv	91
17) tert-Butyl alcohol	5.15	59	24769	0.31	ppbv	97
18) 1,1-Dichloroethene	5.07	96	22211	0.48	ppbv	94
19) Isopropyl Alcohol	4.78	45	11924	0.27	ppbv #	80
20) Methylene Chloride	5.14	84	23733	0.54	ppbv	85
21) Allyl Chloride	5.21	41	27921	0.43	ppbv #	80
22) trans-1,2-Dichloroethene	5.75	96	23467	0.45	ppbv	98
23) Vinyl Acetate	5.98	43	59042	0.36	ppbv #	91
24) 1,1-Dichloroethane	5.89	63	53519	0.45	ppbv	98
25) Ethyl Acetate	6.67	43	34601	0.21	ppbv #	75
26) Hexane	6.64	57	31368	0.37	ppbv	92
27) Carbon Disulfide	5.38	76	55526	0.44	ppbv #	81
28) Methyl tert-Butyl Ether	5.96	73	63058	0.37	ppbv	99
29) Chloroform	6.73	83	76025	0.49	ppbv	93
30) Cyclohexane	8.27	84	31525	0.37	ppbv #	28
31) cis-1,2-Dichloroethene	6.51	61	30735	0.36	ppbv #	92
32) 1,1,1-Trichloroethane	7.57	97	76010	0.43	ppbv	98
34) 2-Butanone	6.21	43	38135	0.34	ppbv #	89
35) Carbon Tetrachloride	8.14	117	75720	0.40	ppbv	96
36) Benzene	8.01	78	71985	0.33	ppbv	96
37) 1,2-Dichloroethane	7.35	62	60599	0.40	ppbv	99
38) Trichloroethene	9.04	130	37795	0.39	ppbv	96
39) 1,2-Dichloropropane	8.80	63	30145	0.40	ppbv #	90
40) 1,4-Dioxane	9.16	88	2990	0.17	ppbv #	1
41) Tetrahydrofuran	7.15	42	16066	0.29	ppbv	96
42) Bromodichloromethane	9.00	83	75668	0.39	ppbv #	95
43) Methyl Methacrylate	9.25	69	23722	0.30	ppbv	86

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL010816\
 Data File : VL026662.D
 Acq On : 9 Jan 2016 5:47
 Operator : SY/AP
 Sample : H1002-18
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-4

Quant Time: Jan 12 02:03:22 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 11 17:14:02 2016
 QLast Update : Mon Jan 11 17:14:02 2016
 Response via : Initial Calibration

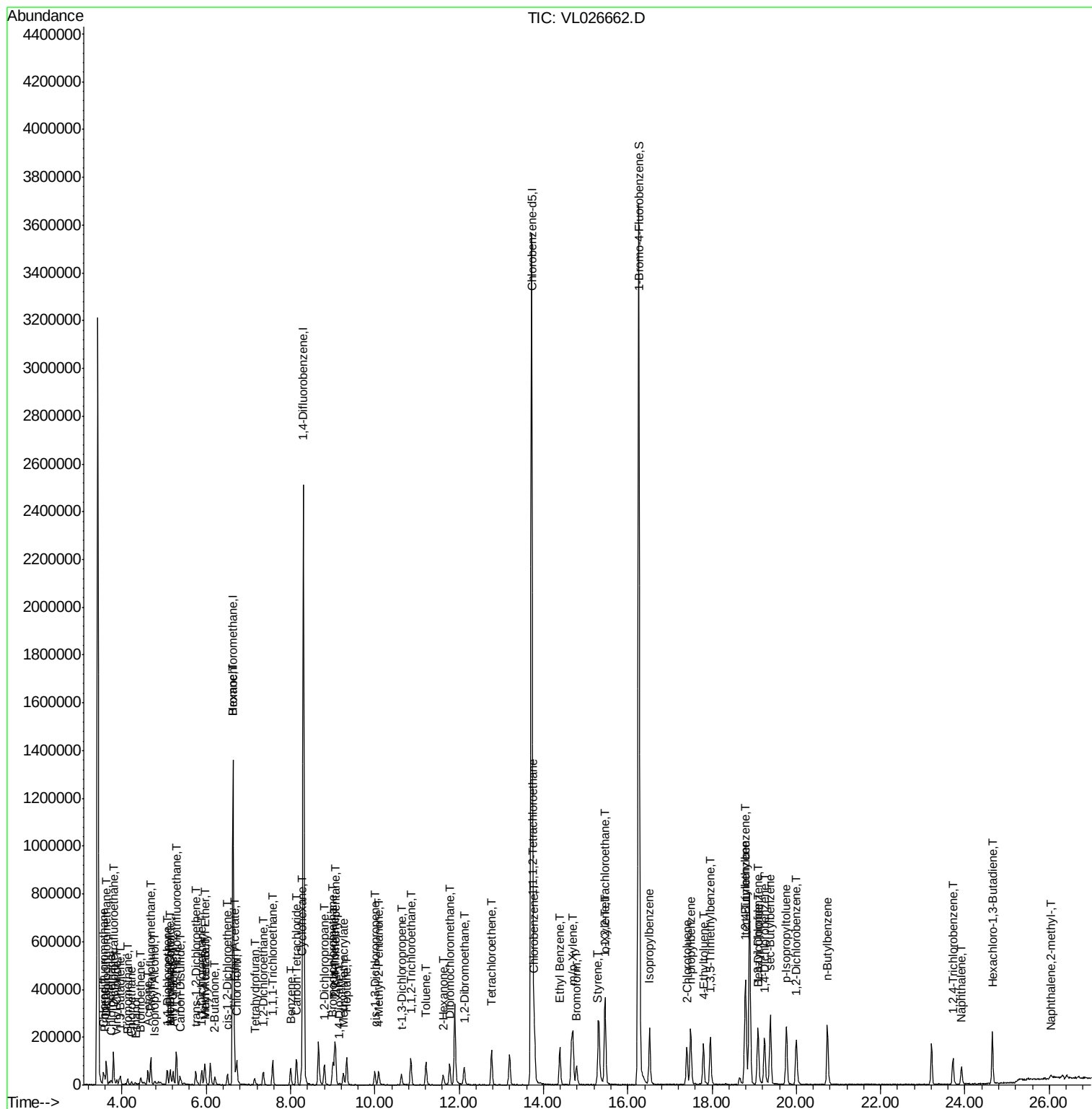
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.07	57	115147	0.33	ppbv	93
45) t-1,3-Dichloropropene	10.63	75	33466	0.26	ppbv	92
46) cis-1,3-Dichloropropene	10.00	75	39921	0.27	ppbv	96
47) 1,1,2-Trichloroethane	10.85	97	44839	0.42	ppbv	86
48) Dibromochloromethane	11.77	129	65515	0.40	ppbv	99
49) Bromoform	14.79	173	53054	0.40	ppbv	99
50) 4-Methyl-2-Pentanone	10.09	43	44194	0.28	ppbv	100
51) 2-Hexanone	11.62	43	39423	0.27	ppbv #	96
52) Tetrachloroethene	12.77	164	43607	0.40	ppbv	90
53) Toluene	11.22	91	95352	0.31	ppbv	98
54) 1,2-Dibromoethane	12.12	107	69834	0.41	ppbv	93
56) 1,1,1,2-Tetrachloroethane	13.76	131	58229	0.44	ppbv #	1
57) Chlorobenzene	13.79	112	143069	0.48	ppbv #	85
58) Ethyl Benzene	14.39	91	171021	0.33	ppbv	93
59) m/p-Xylene	14.69	91	125875	0.30	ppbv #	1
60) o-Xylene	15.46	91	193738	0.42	ppbv	99
61) Styrene	15.29	104	56350	0.31	ppbv	99
62) Isopropylbenzene	16.52	105	235274	0.39	ppbv	97
63) 1,1,2,2-Tetrachloroethane	15.45	83	148290	0.43	ppbv	99
64) n-propylbenzene	17.49	120	62575	0.38	ppbv	89
65) tert-Butylbenzene	18.78	119	239642	0.43	ppbv	94
66) Benzyl Chloride	19.08	91	63272	0.32	ppbv	99
67) sec-Butylbenzene	19.38	105	326455	0.40	ppbv	100
69) p-Isopropyltoluene	19.76	119	224622	0.36	ppbv	98
70) n-Butylbenzene	20.74	91	220603	0.34	ppbv	97
71) 2-Chlorotoluene	17.40	91	156092	0.33	ppbv	96
72) 4-Ethyltoluene	17.80	105	181016	0.35	ppbv	98
73) 1,3,5-Trimethylbenzene	17.96	105	184565	0.38	ppbv	98
74) 1,2,4-Trimethylbenzene	18.80	105	222674	0.43	ppbv	93
75) 1,3-Dichlorobenzene	19.09	146	140087	0.44	ppbv	97
76) 1,4-Dichlorobenzene	19.24	146	142000	0.43	ppbv	96
77) 1,2-Dichlorobenzene	19.99	146	71003	0.22	ppbv #	24
78) Hexachloro-1,3-Butadiene	24.64	225	36155	0.27	ppbv #	59
79) Naphthalene	23.92	128	87621	0.25	ppbv #	92
80) Naphthalene, 2-methyl-	26.03	142	17252	0.32	ppbv #	83
81) 1,2,4-Trichlorobenzene	23.72	180	50353	0.32	ppbv	98

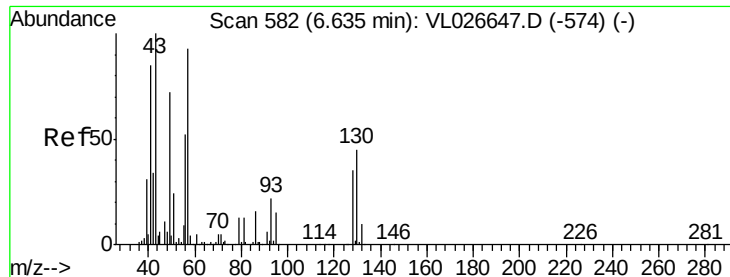
(#) = qualifier out of range (m) = manual integration (+) = signals summed

```
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL010816\  
Data File : VL026662.D  
Acq On    : 9 Jan 2016    5:47  
Operator  : SY/AP  
Sample    : H1002-18  
Misc      : 400mL/MSVOA L  
ALS Vial  : 1    Sample Multiplier: 1
```

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-4

Quant Time: Jan 12 02:03:22 2016
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 11 17:14:02 2016
QLast Update : Mon Jan 11 17:14:02 2016
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.63 min Scan# 582

Delta R.T. -0.00 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-4

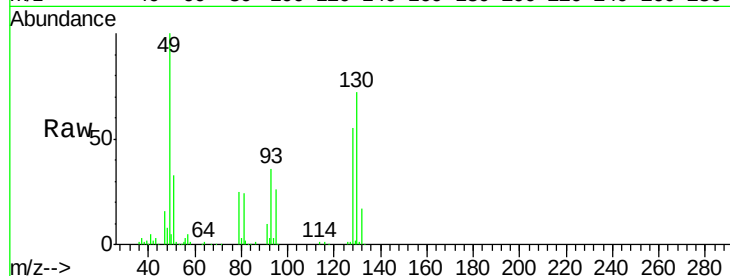
Tot Ion: 49 Resp: 649795

Ion Ratio Lower Upper

49 100

128 59.4 25.9 77.7

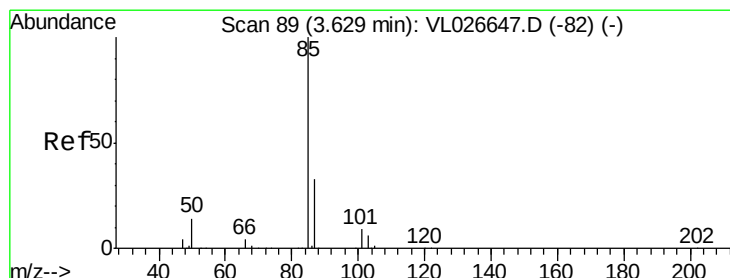
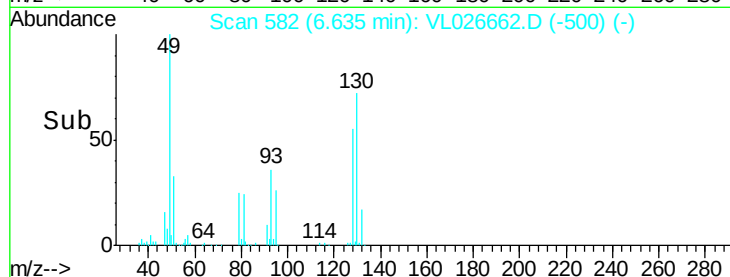
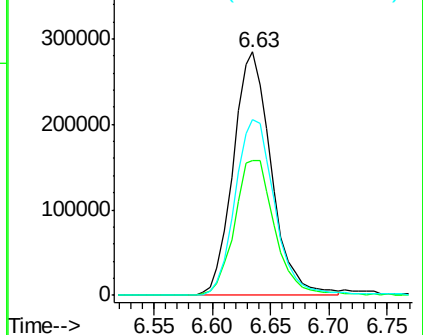
130 75.9 33.6 100.8



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: 0.53 ppbv

RT: 3.63 min Scan# 89

Delta R.T. -0.00 min

Lab File: VL026662.D

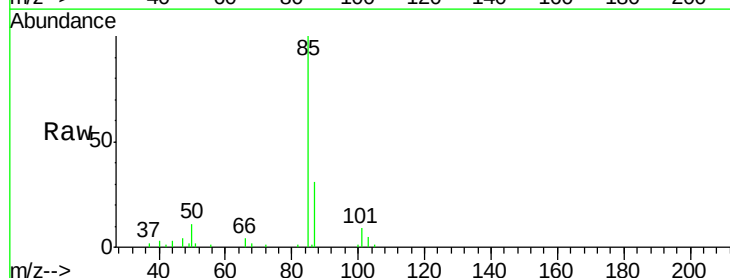
Acq: 9 Jan 2016 5:47

Tgt Ion: 85 Resp: 91861

Ion Ratio Lower Upper

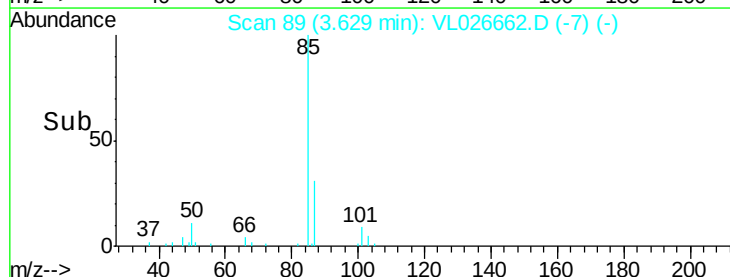
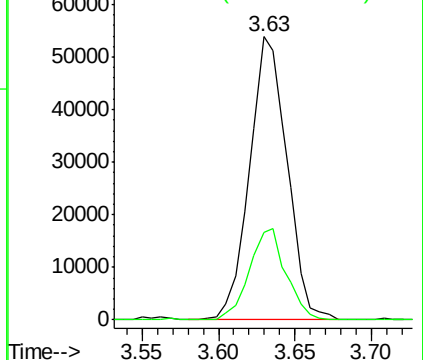
85 100

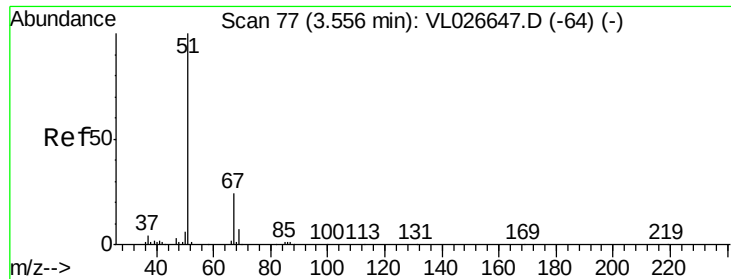
87 30.9 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.46 ppbv

RT: 3.56 min Scan# 78

Delta R.T. 0.01 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Instrument :

MSVOA_L

ClientSampleId :

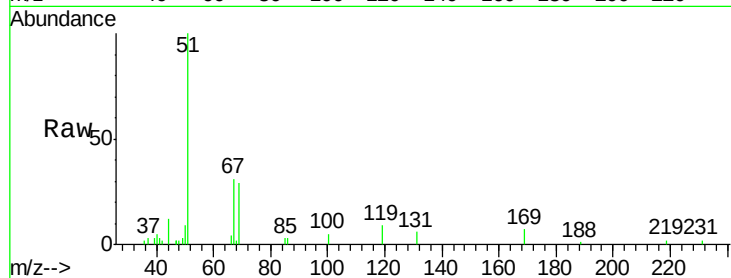
MDL-AIR-4

Tot Ion: 51 Resp: 40218

Ion Ratio Lower Upper

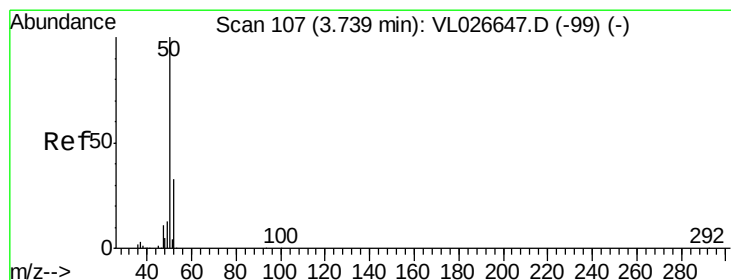
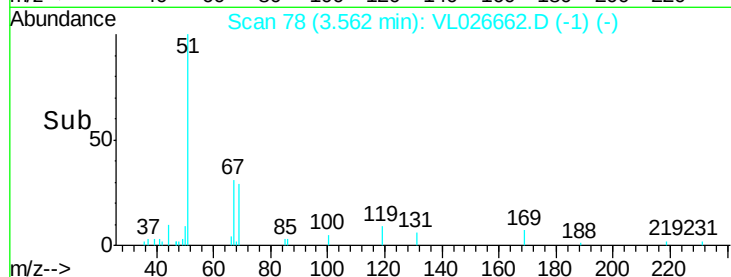
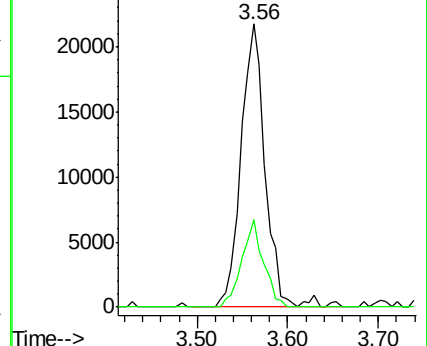
51 100

67 27.7 18.6 28.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.40 ppbv

RT: 3.74 min Scan# 107

Delta R.T. -0.00 min

Lab File: VL026662.D

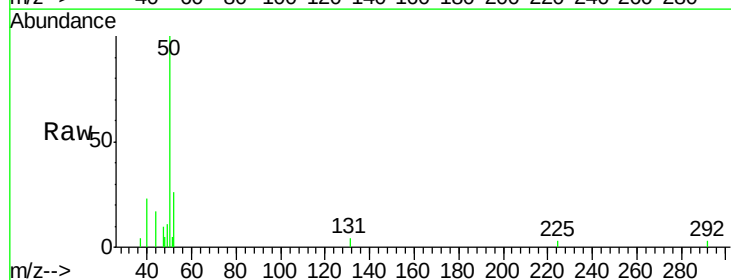
Acq: 9 Jan 2016 5:47

Tgt Ion: 50 Resp: 16823

Ion Ratio Lower Upper

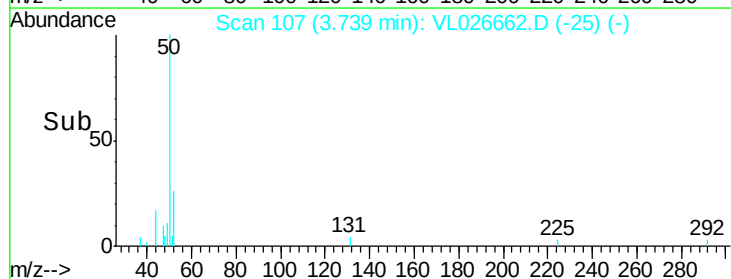
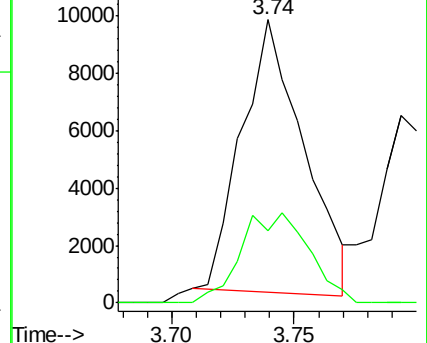
50 100

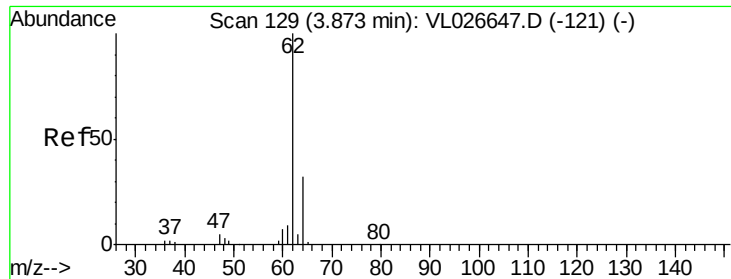
52 27.1 26.7 40.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.39 ppbv

RT: 3.88 min Scan# 130

Delta R.T. 0.01 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Instrument :

MSVOA_L

ClientSampleId :

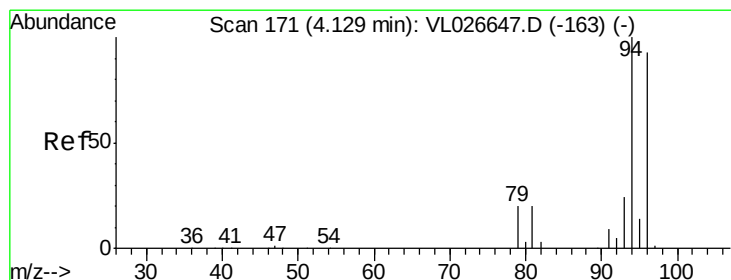
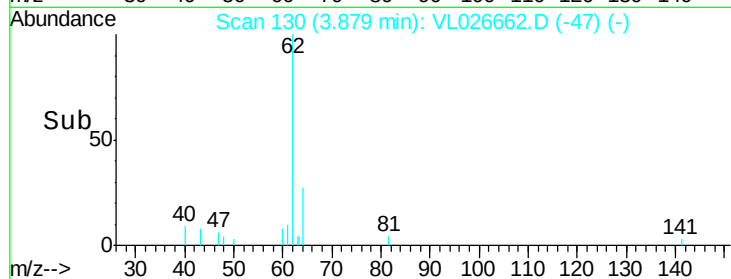
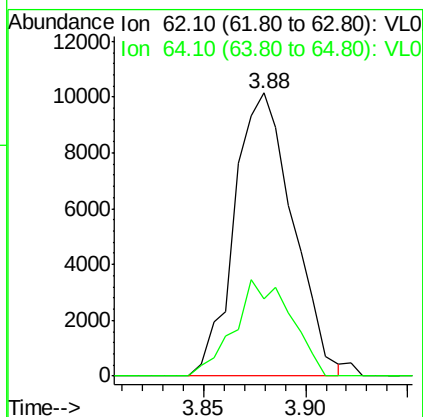
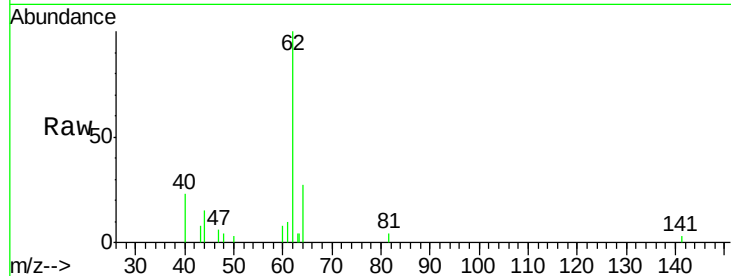
MDL-AIR-4

Tot Ion: 62 Resp: 20168

Ion Ratio Lower Upper

62 100

64 27.1 25.6 38.4



#6

Bromomethane

Concen: 0.48 ppbv

RT: 4.13 min Scan# 171

Delta R.T. -0.00 min

Lab File: VL026662.D

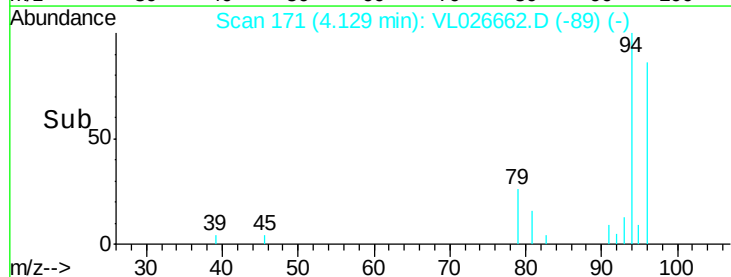
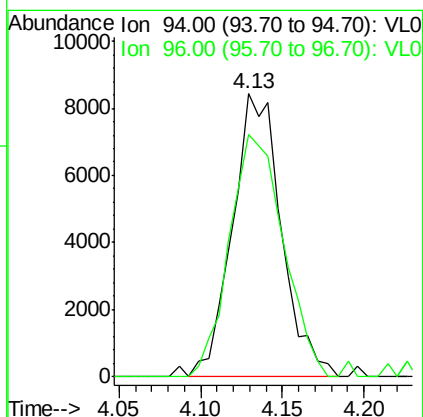
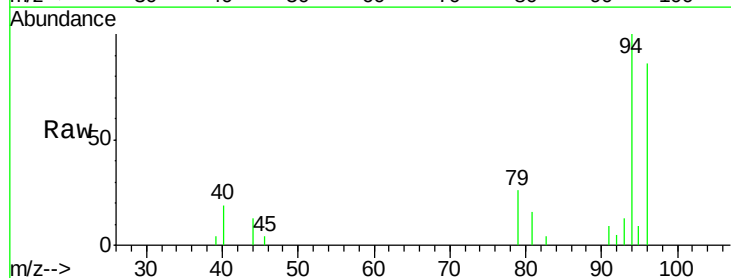
Acq: 9 Jan 2016 5:47

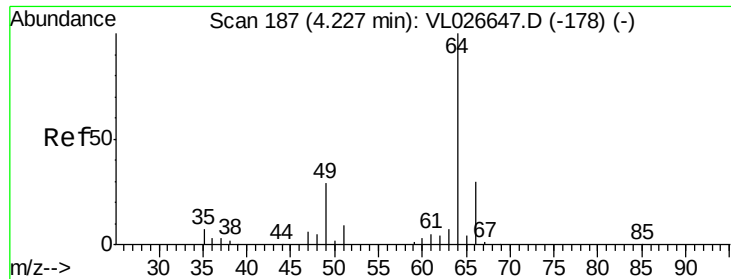
Tgt Ion: 94 Resp: 17595

Ion Ratio Lower Upper

94 100

96 85.8 74.6 112.0





#7

Chloroethane

Concen: 0.47 ppbv

RT: 4.23 min Scan# 188

Delta R.T. 0.01 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Instrument :

MSVOA_L

ClientSampleId :

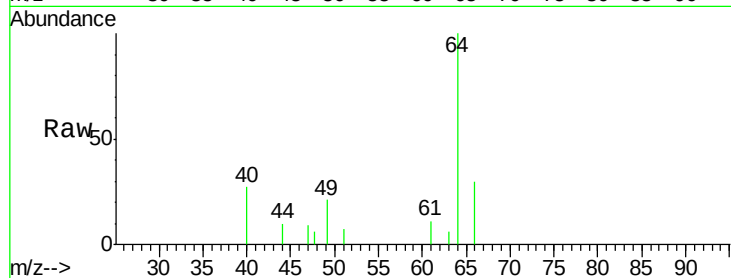
MDL-AIR-4

Tot Ion: 64 Resp: 9697

Ion Ratio Lower Upper

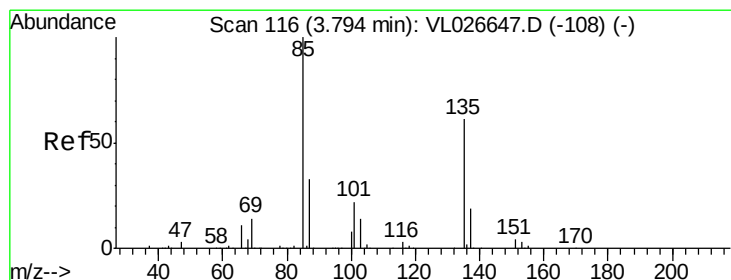
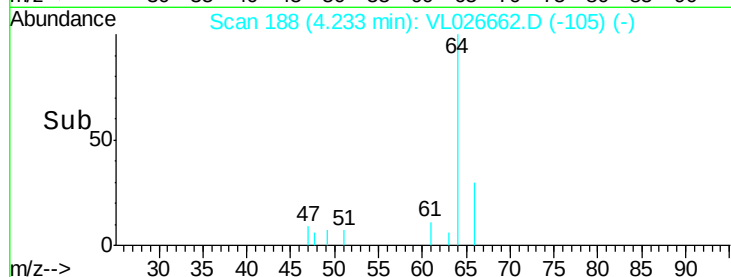
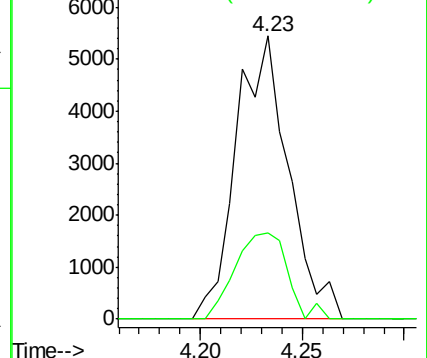
64 100

66 30.4 24.3 36.5



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.50 ppbv

RT: 3.79 min Scan# 116

Delta R.T. -0.00 min

Lab File: VL026662.D

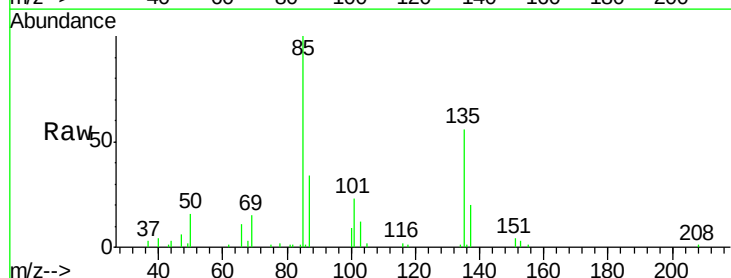
Acq: 9 Jan 2016 5:47

Tgt Ion: 85 Resp: 67255

Ion Ratio Lower Upper

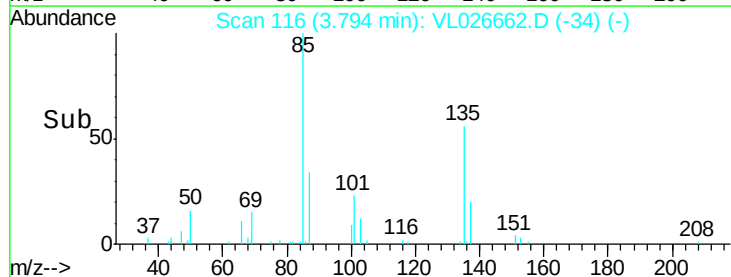
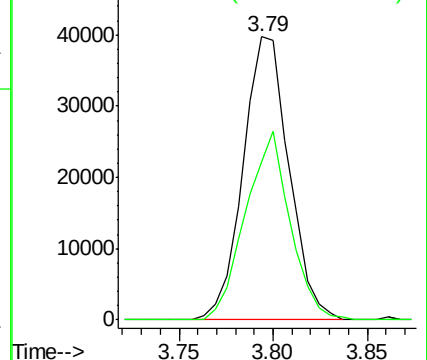
85 100

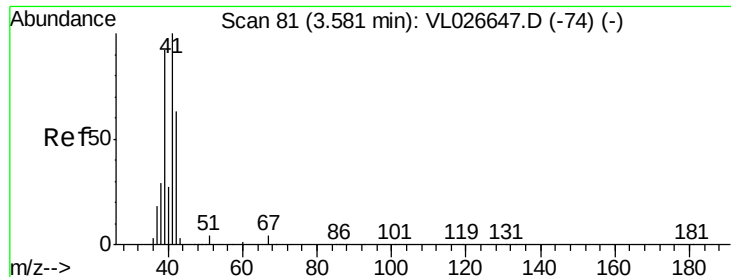
135 64.1 49.8 74.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.35 ppbv

RT: 3.59 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Instrument :

MSVOA_L

ClientSampleId :

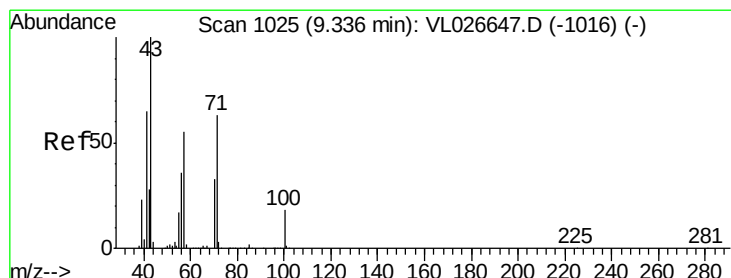
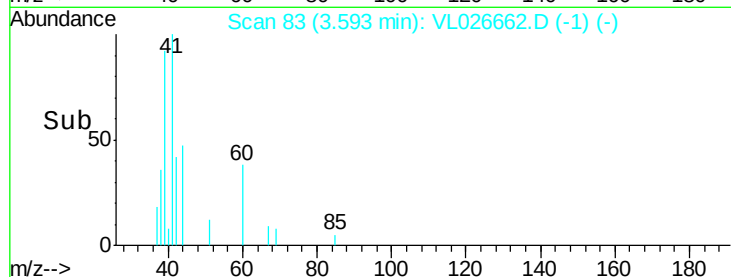
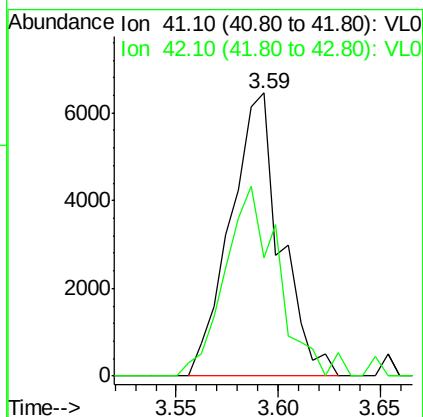
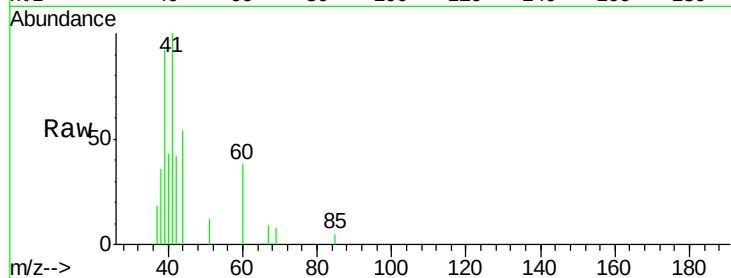
MDL-AIR-4

Tot Ion: 41 Resp: 11038

Ion Ratio Lower Upper

41 100

42 71.4 53.6 80.4



#10

Heptane

Concen: 0.37 ppbv

RT: 9.34 min Scan# 1025

Delta R.T. -0.00 min

Lab File: VL026662.D

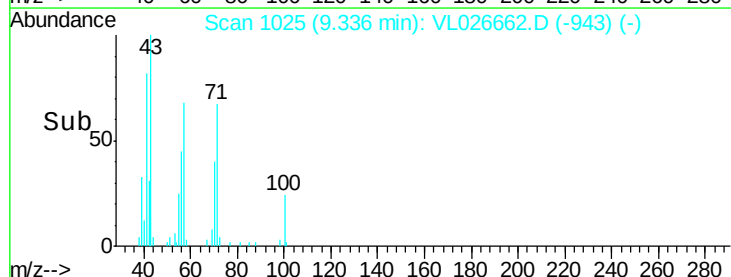
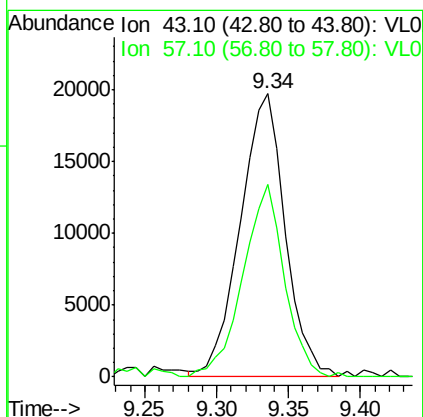
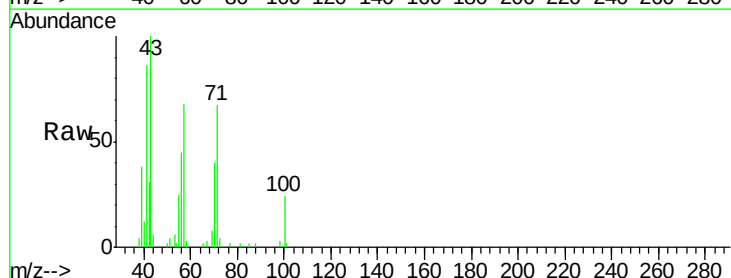
Acq: 9 Jan 2016 5:47

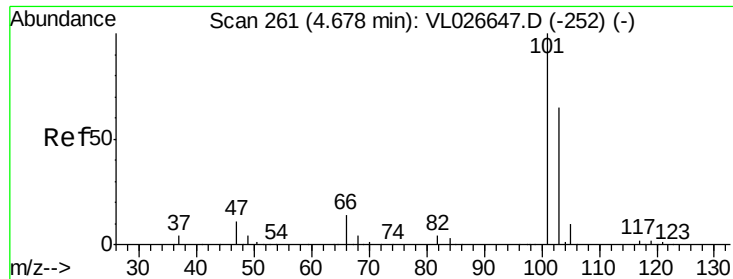
Tgt Ion: 43 Resp: 42623

Ion Ratio Lower Upper

43 100

57 65.4 45.8 68.6

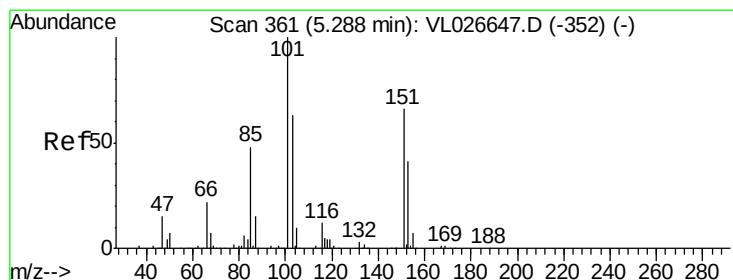
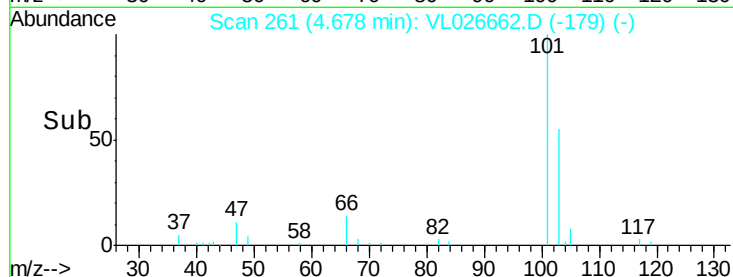
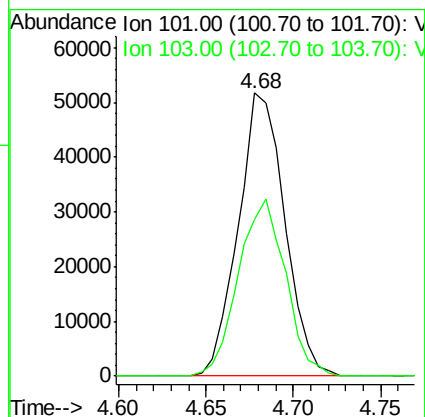
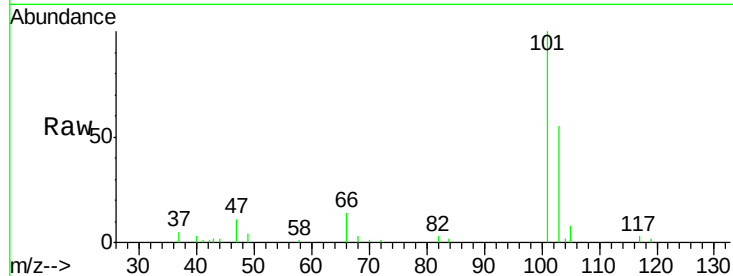




#11
 Trichlorofluoromethane
 Concen: 0.53 ppbv
 RT: 4.68 min Scan# 261
 Delta R.T. -0.00 min
 Lab File: VL026662.D
 Acq: 9 Jan 2016 5:47

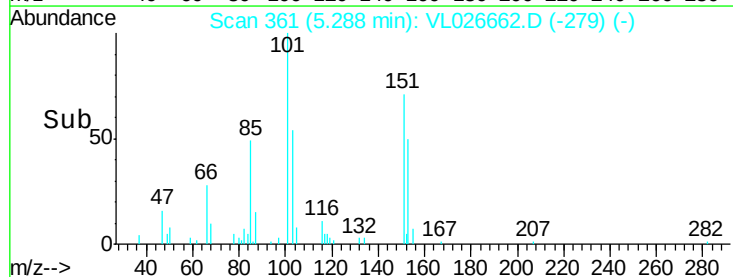
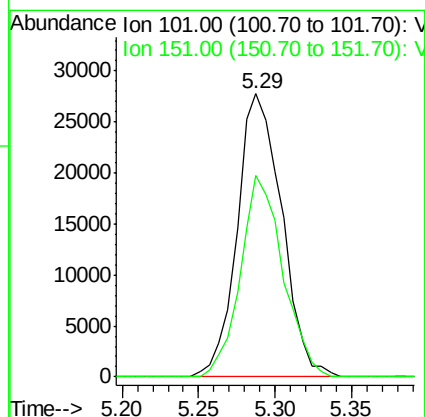
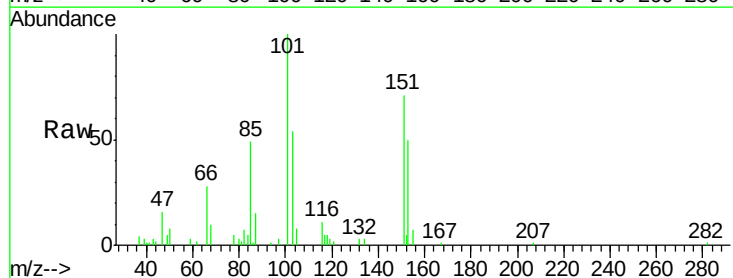
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-4

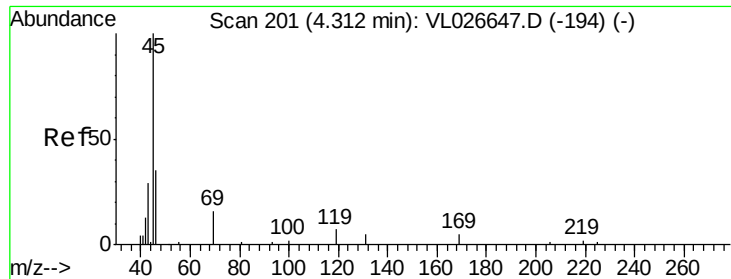
Tot Ion:101 Resp: 95759
 Ion Ratio Lower Upper
 101 100
 103 55.2 51.7 77.5



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.51 ppbv
 RT: 5.29 min Scan# 361
 Delta R.T. -0.00 min
 Lab File: VL026662.D
 Acq: 9 Jan 2016 5:47

Tgt Ion:101 Resp: 56245
 Ion Ratio Lower Upper
 101 100
 151 67.7 54.2 81.4

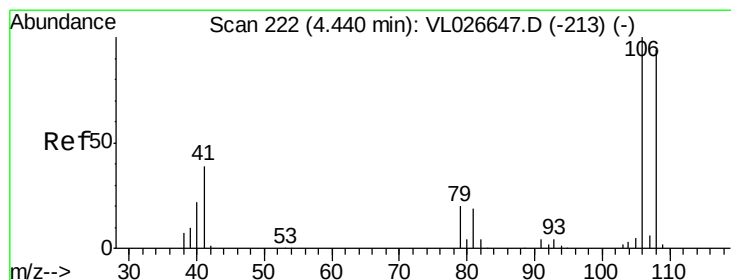
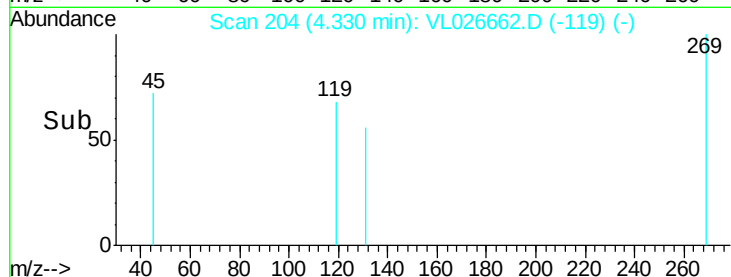
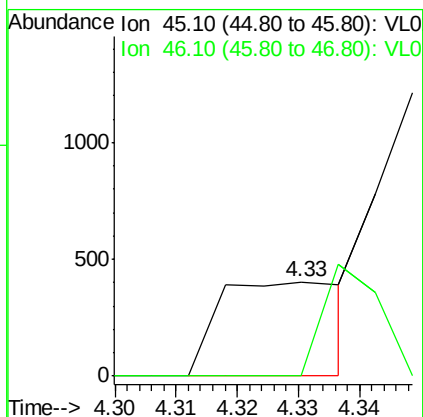
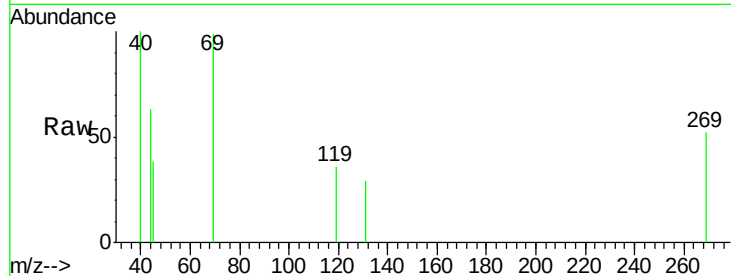




#13
Ethanol
Concen: 0.10 ppbv
RT: 4.33 min Scan# 204
Delta R.T. 0.02 min
Lab File: VL026662.D
Acq: 9 Jan 2016 5:47

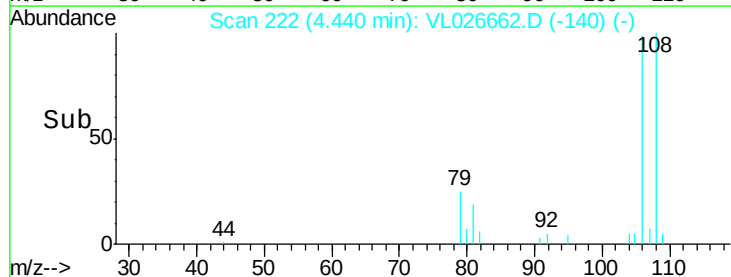
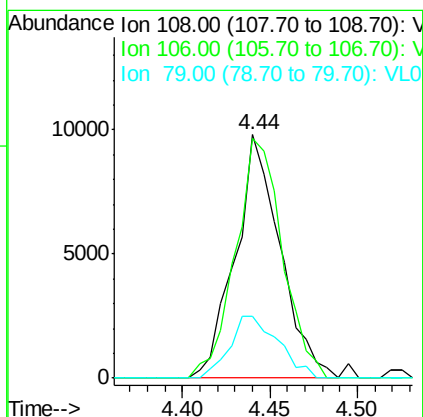
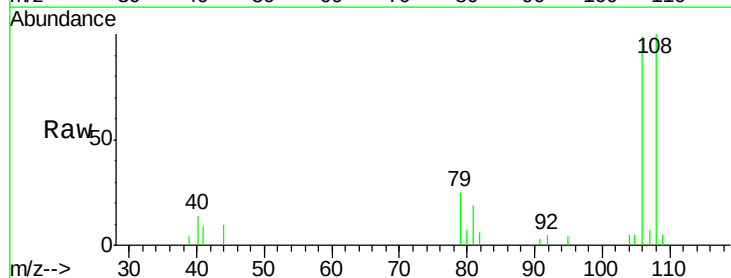
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-4

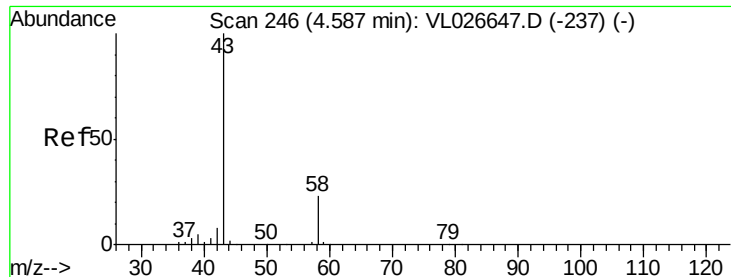
Tot Ion: 45 Resp: 575
Ion Ratio Lower Upper
45 100
46 76.9 16.7 66.7#



#14
Bromoethene
Concen: 0.44 ppbv
RT: 4.44 min Scan# 222
Delta R.T. -0.00 min
Lab File: VL026662.D
Acq: 9 Jan 2016 5:47

Tgt Ion:108 Resp: 17546
Ion Ratio Lower Upper
108 100
106 102.5 86.4 129.6
79 27.7 17.2 25.8#





#15

Acetone

Concen: 0.60 ppbv

RT: 4.62 min Scan# 251

Delta R.T. 0.03 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Instrument :

MSVOA_L

ClientSampleId :

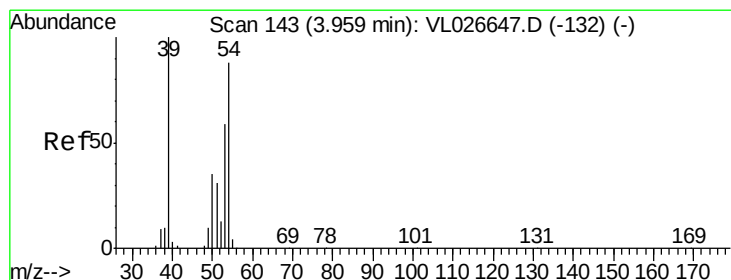
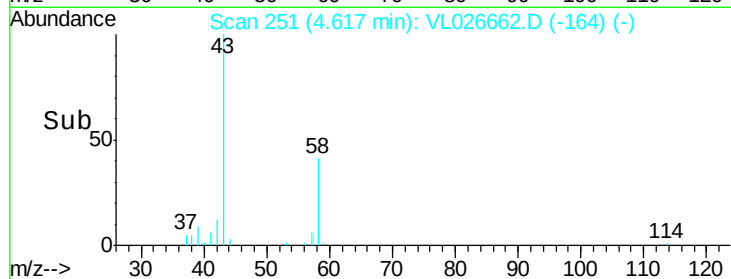
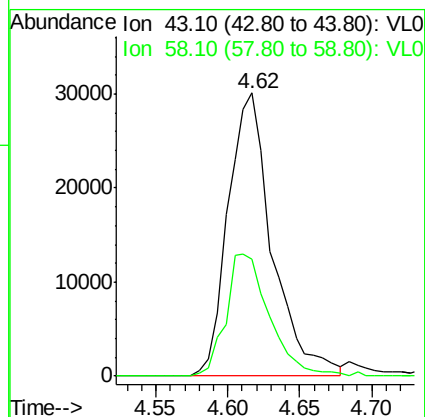
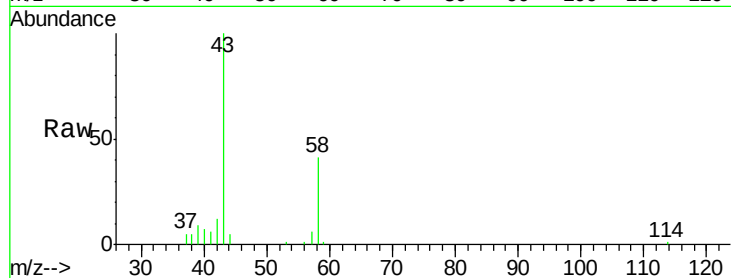
MDL-AIR-4

Tot Ion: 43 Resp: 64507

Ion Ratio Lower Upper

43 100

58 42.6 19.2 28.8#



#16

1,3-Butadiene

Concen: 0.44 ppbv

RT: 3.96 min Scan# 143

Delta R.T. -0.00 min

Lab File: VL026662.D

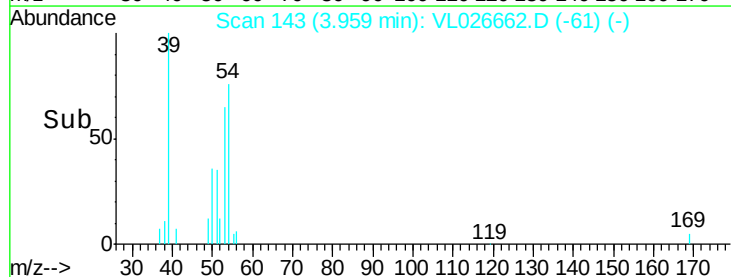
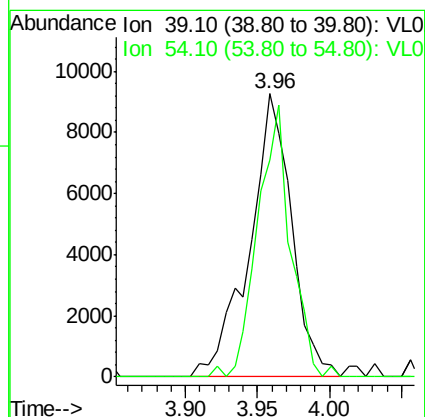
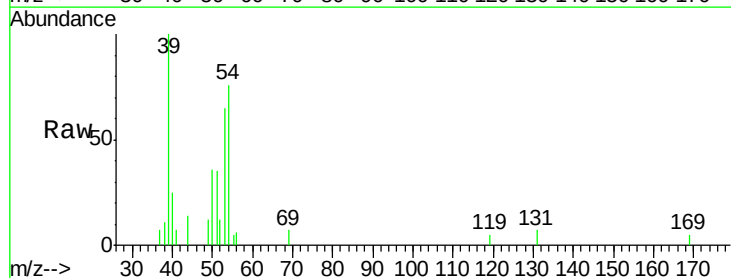
Acq: 9 Jan 2016 5:47

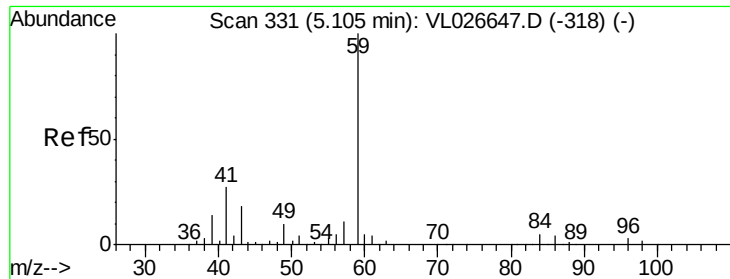
Tgt Ion: 39 Resp: 18766

Ion Ratio Lower Upper

39 100

54 74.8 66.6 100.0



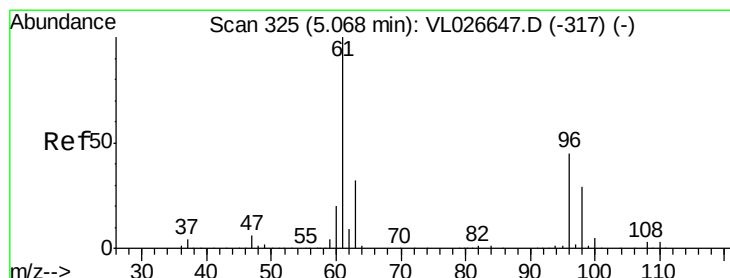
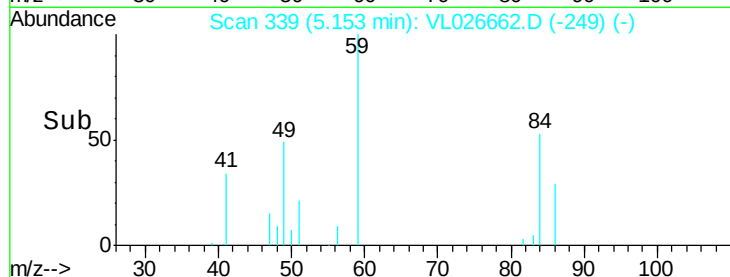
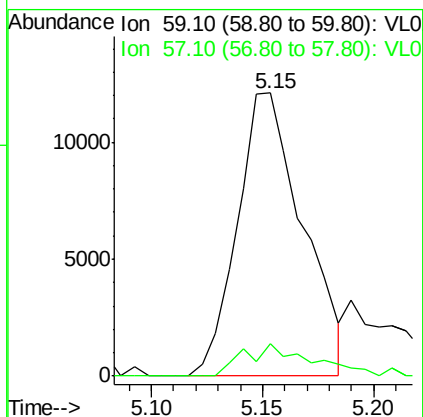
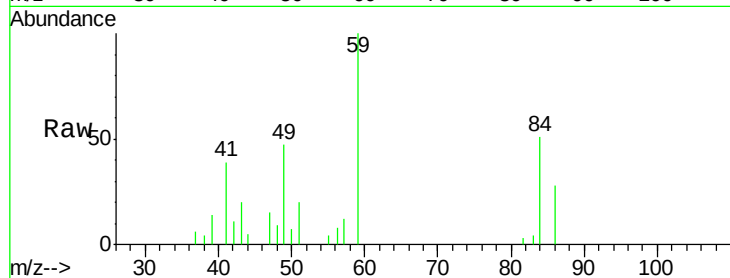


#17

tert-Butyl alcohol
Concen: 0.31 ppbv
RT: 5.15 min Scan# 339
Delta R.T. 0.05 min
Lab File: VL026662.D
Acq: 9 Jan 2016 5:47

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-4

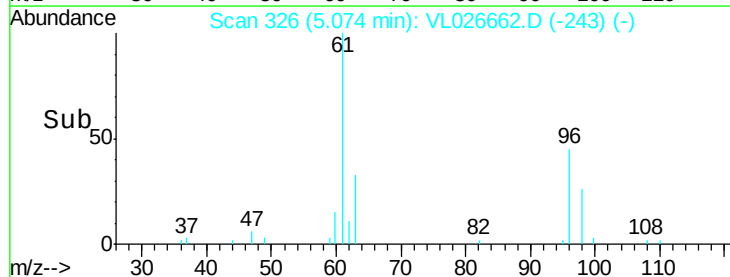
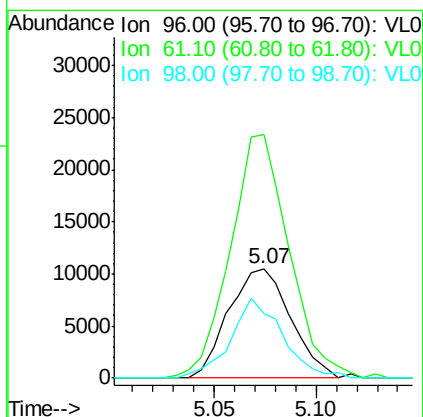
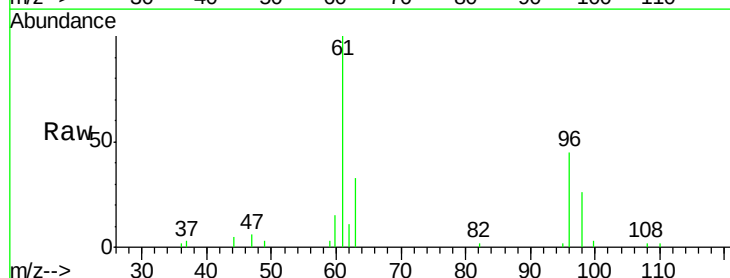
Tot Ion: 59 Resp: 24769
Ion Ratio Lower Upper
59 100
57 12.3 9.0 13.6

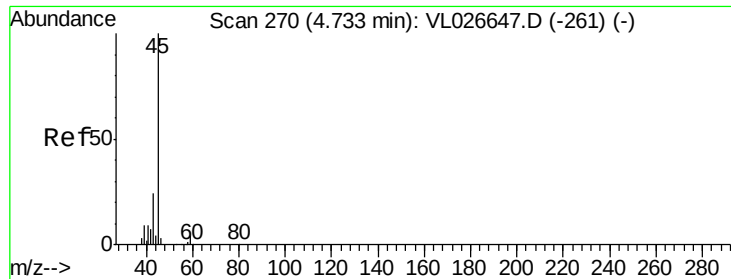


#18

1,1-Dichloroethene
Concen: 0.48 ppbv
RT: 5.07 min Scan# 326
Delta R.T. 0.01 min
Lab File: VL026662.D
Acq: 9 Jan 2016 5:47

Tgt Ion: 96 Resp: 22211
Ion Ratio Lower Upper
96 100
61 215.2 176.7 265.1
98 54.9 51.8 77.6





#19

Isopropyl Alcohol

Concen: 0.27 ppbv

RT: 4.78 min Scan# 277

Delta R.T. 0.04 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Instrument :

MSVOA_L

ClientSampleId :

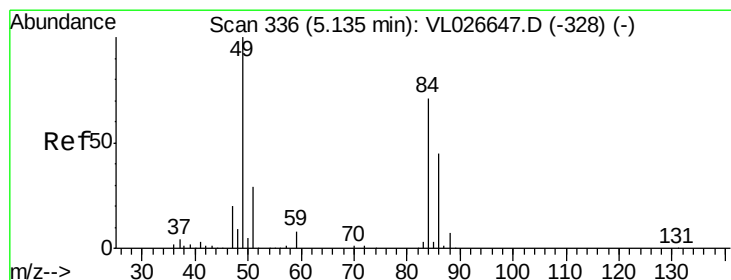
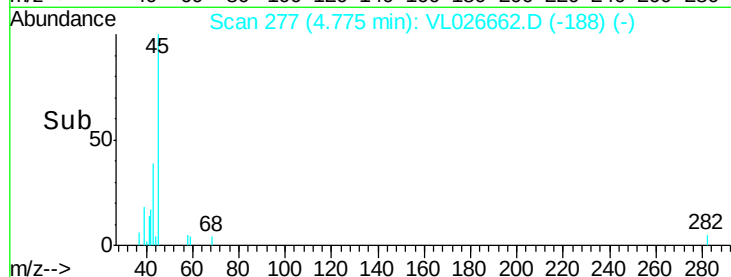
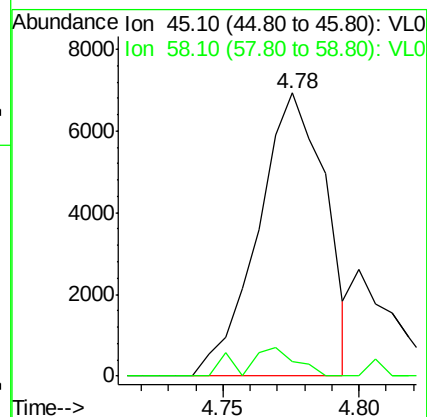
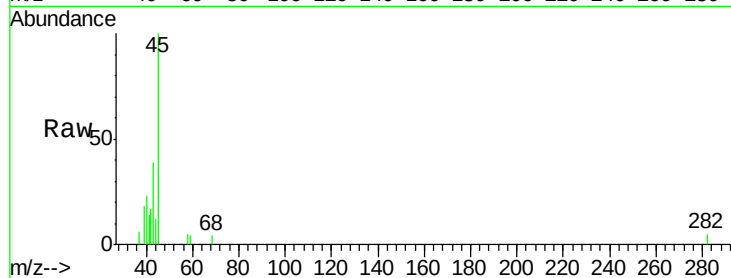
MDL-AIR-4

Tot Ion: 45 Resp: 11924

Ion Ratio Lower Upper

45 100

58 8.9 1.3 1.9#



#20

Methylene Chloride

Concen: 0.54 ppbv

RT: 5.14 min Scan# 336

Delta R.T. -0.00 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Tgt Ion: 84 Resp: 23733

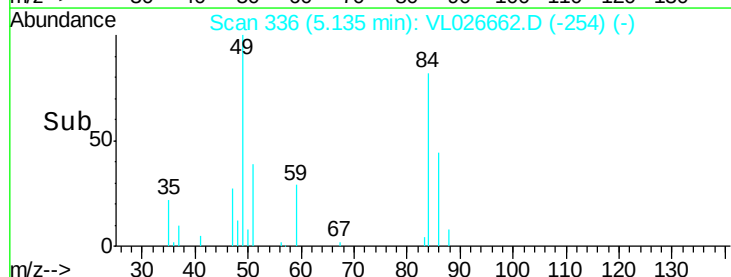
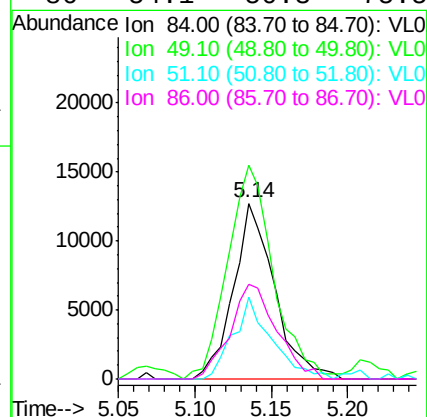
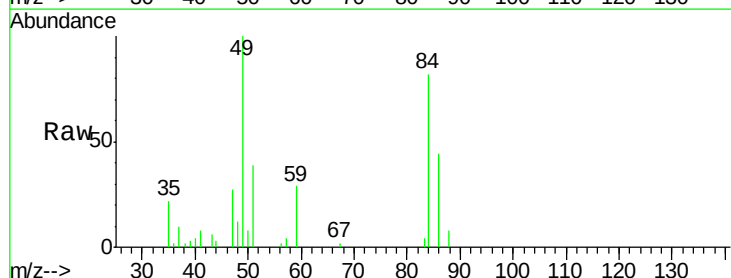
Ion Ratio Lower Upper

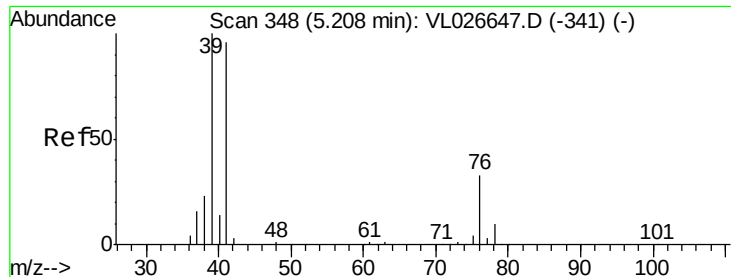
84 100

49 119.0 112.3 168.5

51 46.9 32.5 48.7

86 54.1 50.3 75.5





#21

Allvl Chloride

Concen: 0.43 ppbv

RT: 5.21 min Scan# 348

Delta R.T. -0.00 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-4

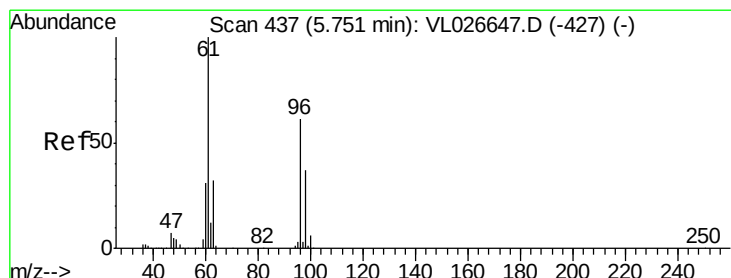
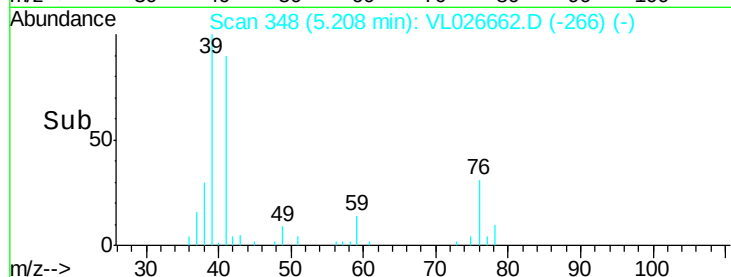
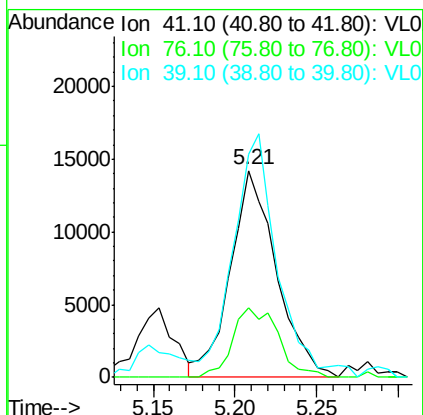
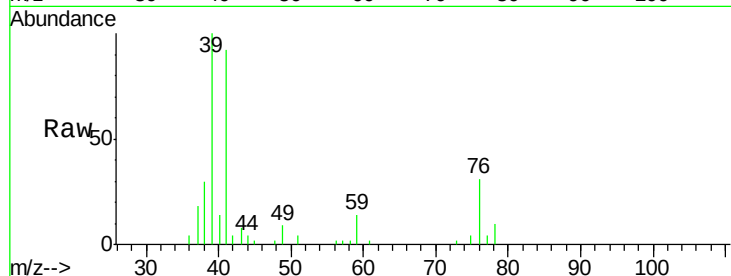
Tot Ion: 41 Resp: 27921

Ion Ratio Lower Upper

41 100

76 33.3 27.5 41.3

39 130.7 83.0 124.6#



#22

trans-1,2-Dichloroethene

Concen: 0.45 ppbv

RT: 5.75 min Scan# 437

Delta R.T. -0.00 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

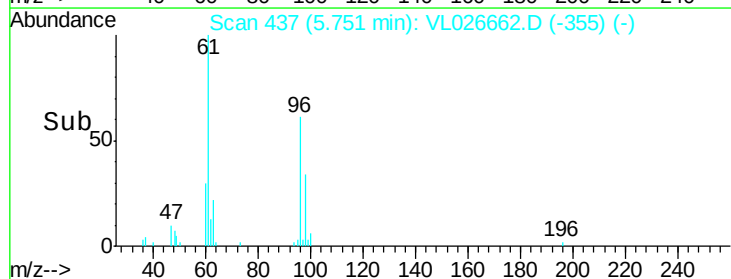
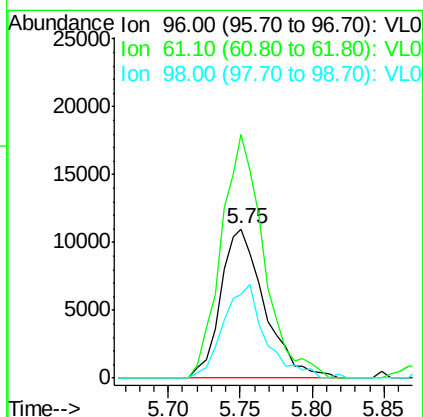
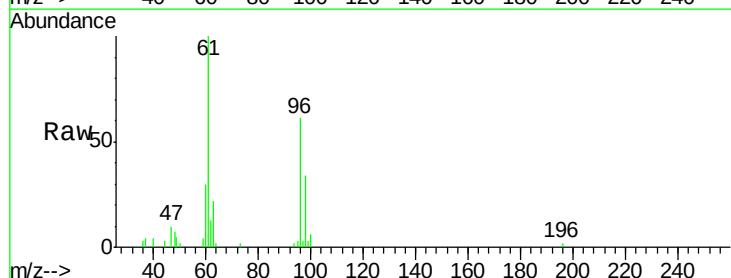
Tgt Ion: 96 Resp: 23467

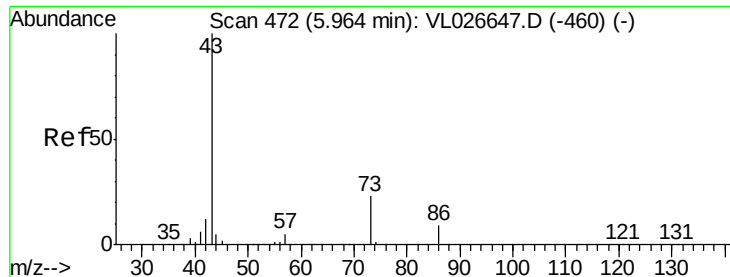
Ion Ratio Lower Upper

96 100

61 162.9 131.0 196.6

98 55.9 48.1 72.1





#23

Vinyl Acetate

Concen: 0.36 ppbv

RT: 5.98 min Scan# 474

Delta R.T. 0.01 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Instrument :

MSVOA_L

ClientSampleID :

MDL-AIR-4

Tot Ion: 43 Resp: 59042

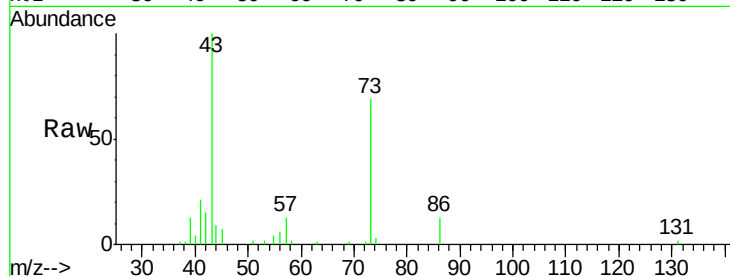
Ion Ratio Lower Upper

43 100

86 12.5 7.4 11.0#

42 14.9 9.2 13.8#

44 8.2 3.8 5.8#

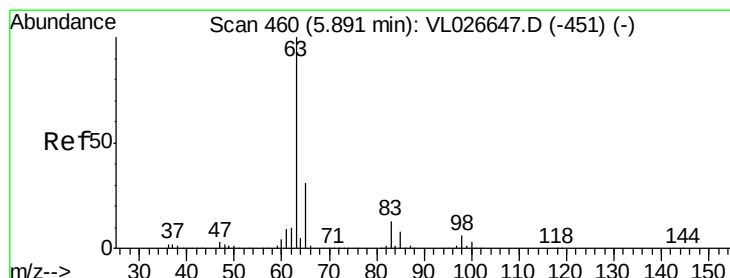
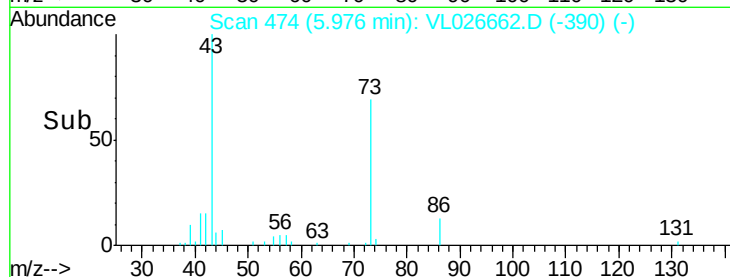
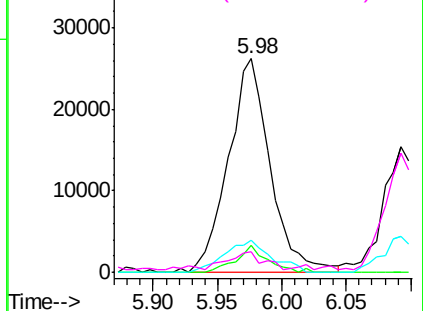


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.45 ppbv

RT: 5.89 min Scan# 460

Delta R.T. -0.00 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

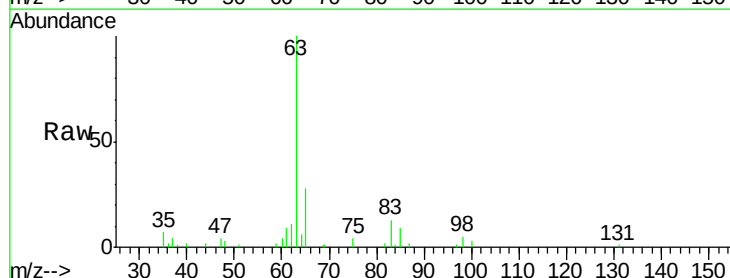
Tgt Ion: 63 Resp: 53519

Ion Ratio Lower Upper

63 100

98 5.0 2.9 8.7

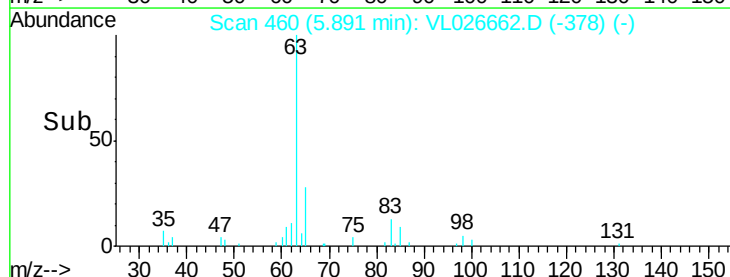
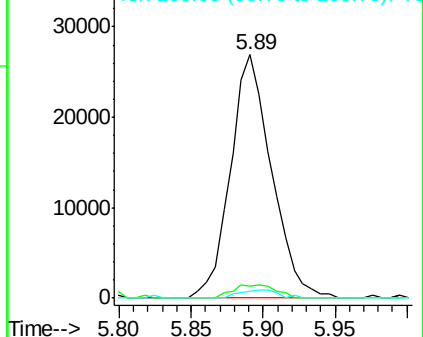
100 2.8 1.6 4.8

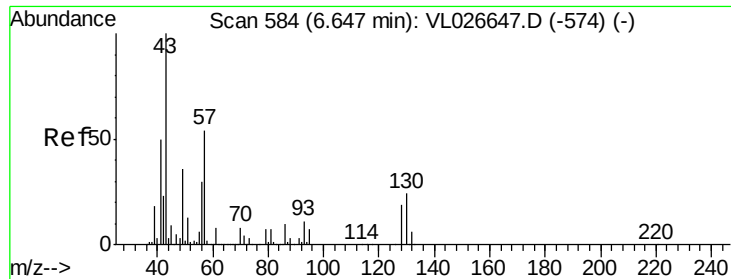


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

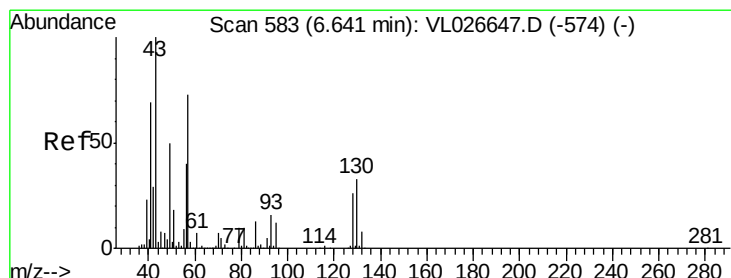
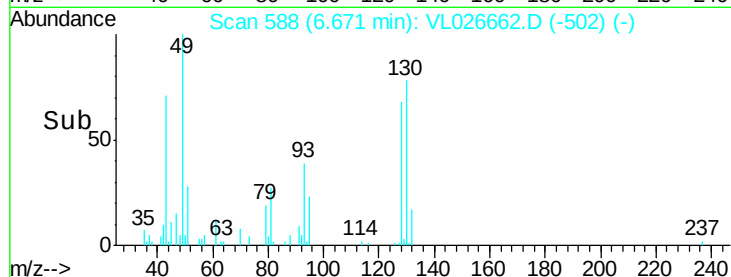
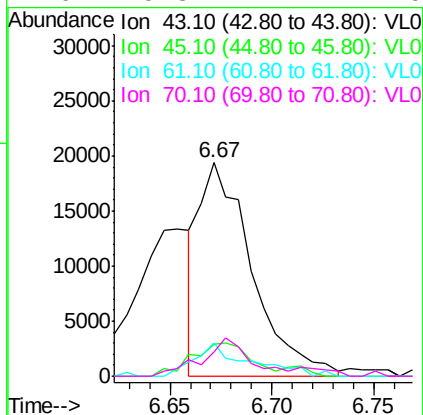
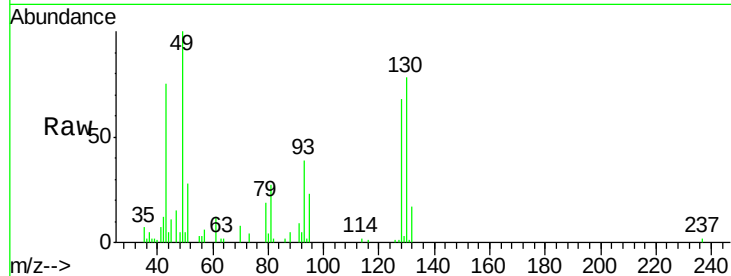




#25
Ethyl Acetate
Concen: 0.21 ppbv
RT: 6.67 min Scan# 588
Delta R.T. 0.02 min
Lab File: VL026662.D
Acq: 9 Jan 2016 5:47

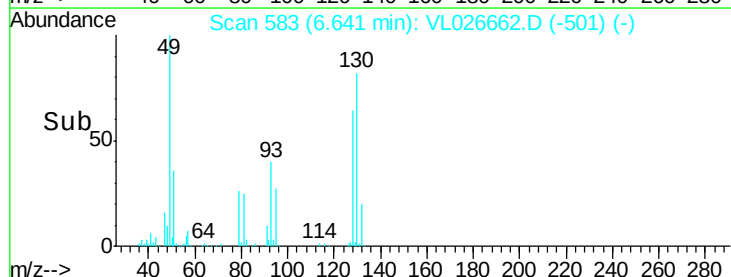
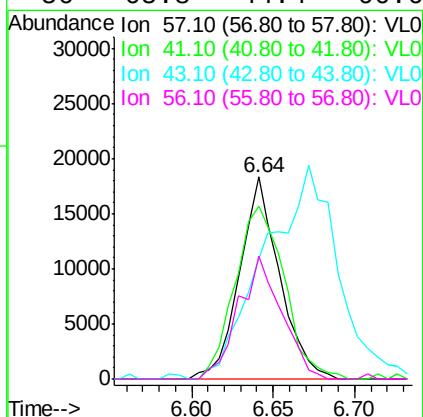
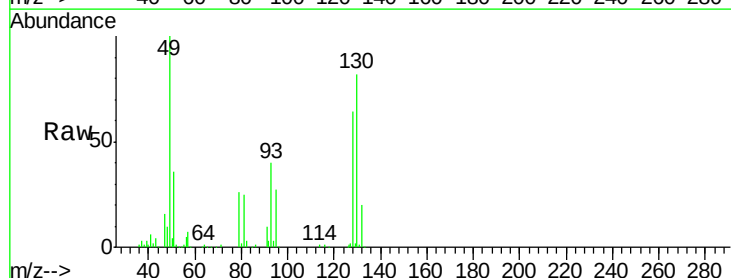
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-4

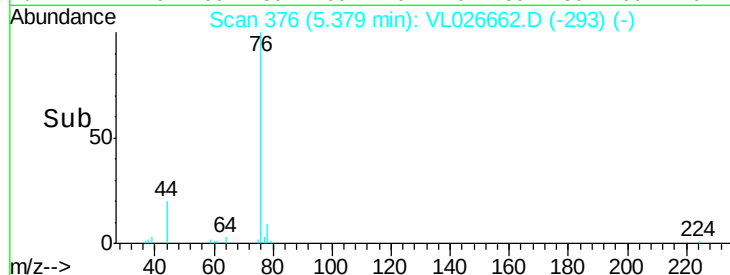
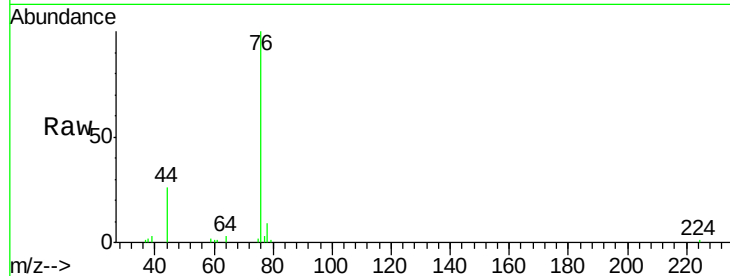
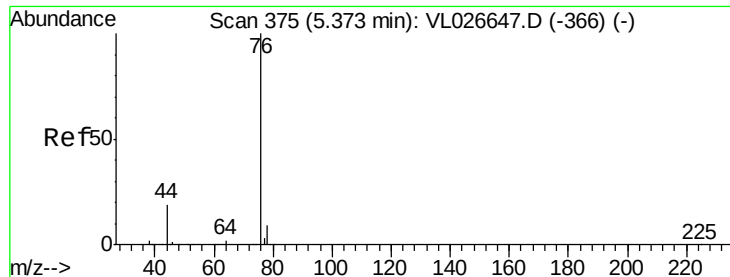
Tot Ion:	43	Resp:	34601
Ion	Ratio	Lower	Upper
43	100		
45	19.2	7.5	11.3#
61	16.7	7.3	10.9#
70	19.3	7.4	11.0#



#26
Hexane
Concen: 0.37 ppbv
RT: 6.64 min Scan# 583
Delta R.T. -0.00 min
Lab File: VL026662.D
Acq: 9 Jan 2016 5:47

Tgt Ion:	57	Resp:	31368
Ion	Ratio	Lower	Upper
57	100		
41	106.3	74.8	112.2
43	196.7	161.5	242.3
56	65.8	44.4	66.6





#27

Carbon Disulfide

Concen: 0.44 ppbv

RT: 5.38 min Scan# 376

Delta R.T. 0.01 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-4

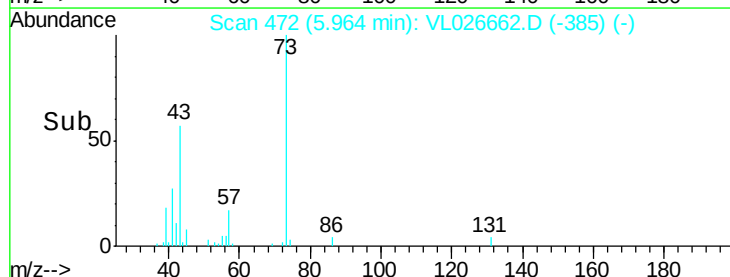
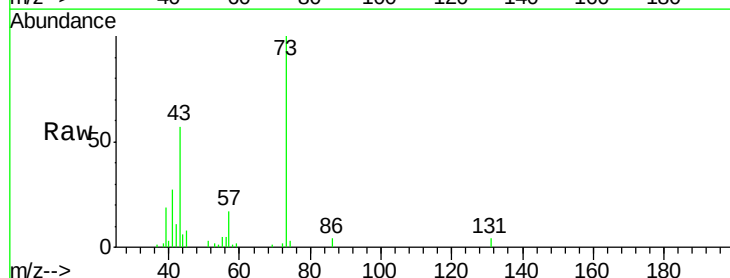
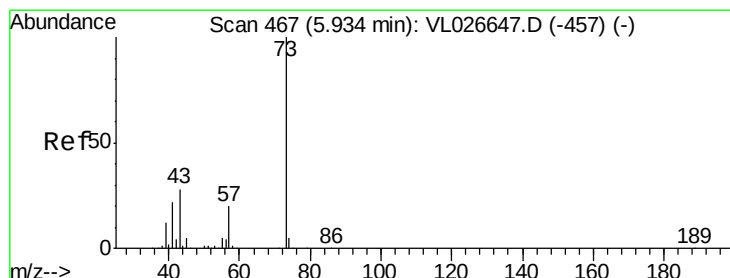
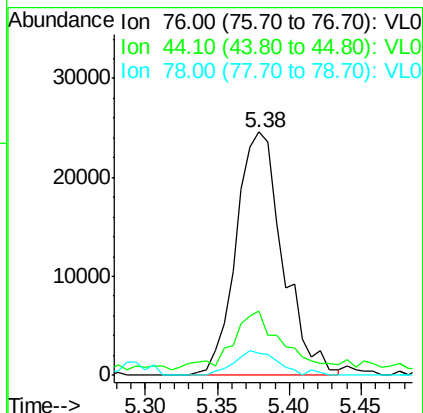
Tot Ion: 76 Resp: 55526

Ion Ratio Lower Upper

76 100

44 33.0 15.9 23.9#

78 9.6 7.6 11.4



#28

Methyl tert-Butyl Ether

Concen: 0.37 ppbv

RT: 5.96 min Scan# 472

Delta R.T. 0.03 min

Lab File: VL026662.D

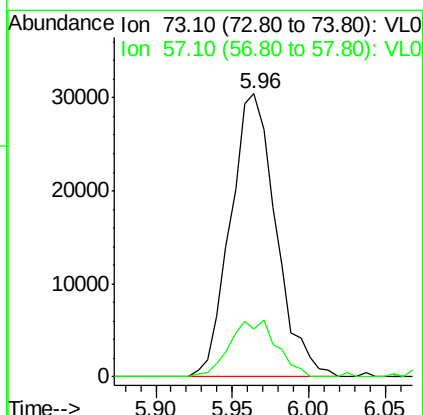
Acq: 9 Jan 2016 5:47

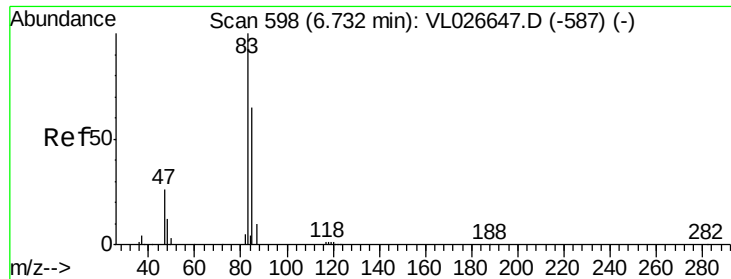
Tgt Ion: 73 Resp: 63058

Ion Ratio Lower Upper

73 100

57 20.6 16.2 24.4

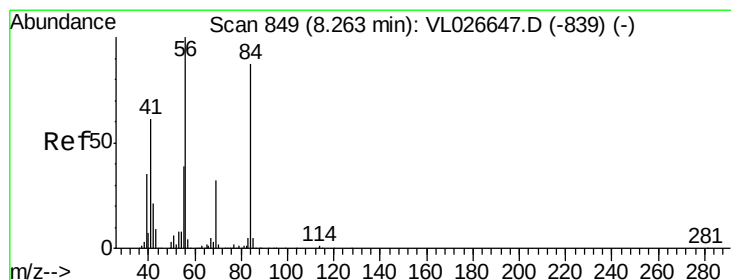
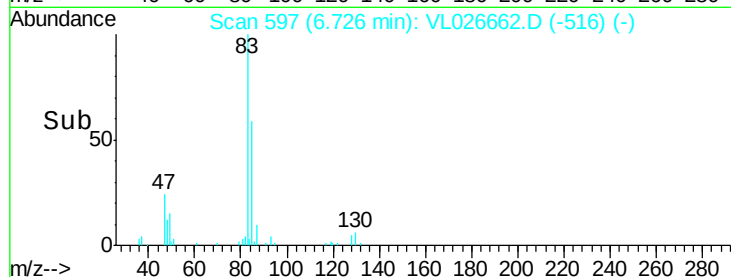
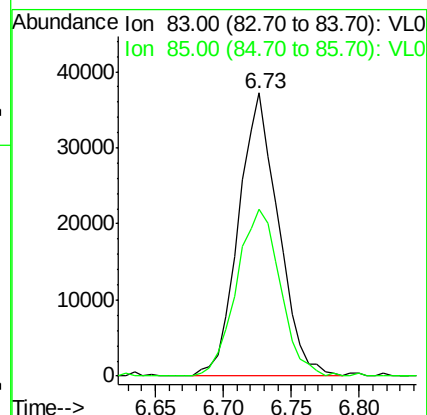
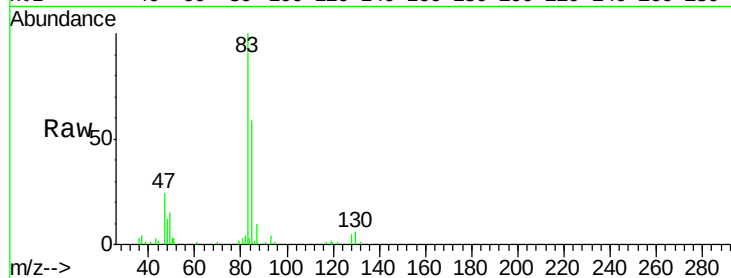




#29
Chloroform
Concen: 0.49 ppbv
RT: 6.73 min Scan# 597
Delta R.T. -0.01 min
Lab File: VL026662.D
Acq: 9 Jan 2016 5:47

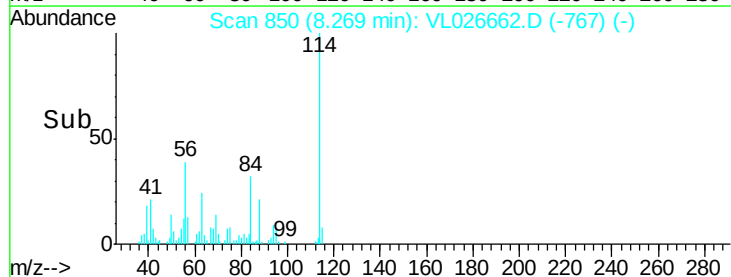
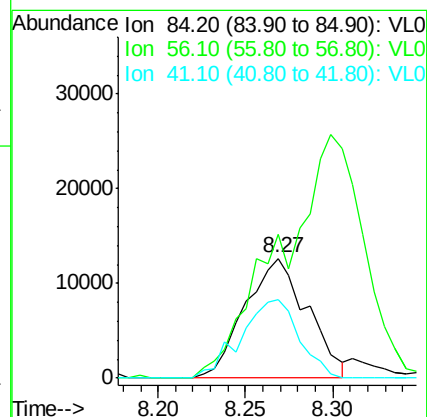
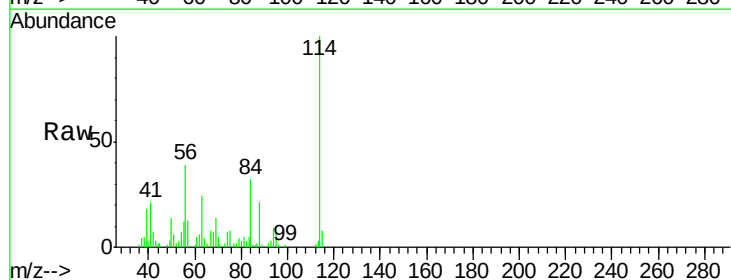
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-4

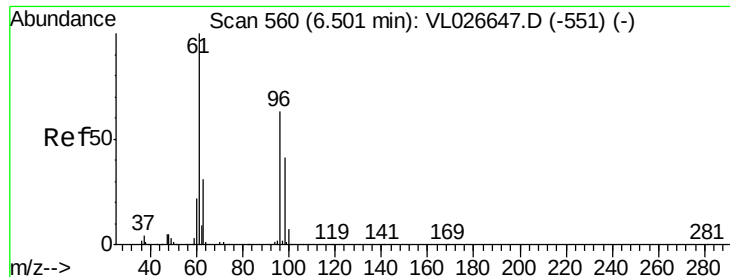
Tot Ion: 83 Resp: 76025
Ion Ratio Lower Upper
83 100
85 58.8 51.6 77.4



#30
Cyclohexane
Concen: 0.37 ppbv
RT: 8.27 min Scan# 850
Delta R.T. 0.01 min
Lab File: VL026662.D
Acq: 9 Jan 2016 5:47

Tgt Ion: 84 Resp: 31525
Ion Ratio Lower Upper
84 100
56 0.0 95.9 143.9#
41 61.2 54.8 82.2





#31

cis-1,2-Dichloroethene

Concen: 0.36 ppbv

RT: 6.51 min Scan# 561

Delta R.T. 0.01 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-4

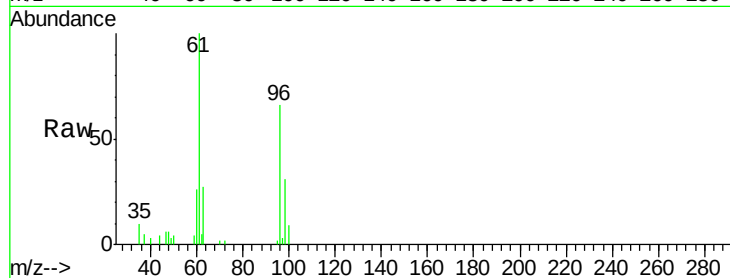
Tot Ion: 61 Resp: 30735

Ion Ratio Lower Upper

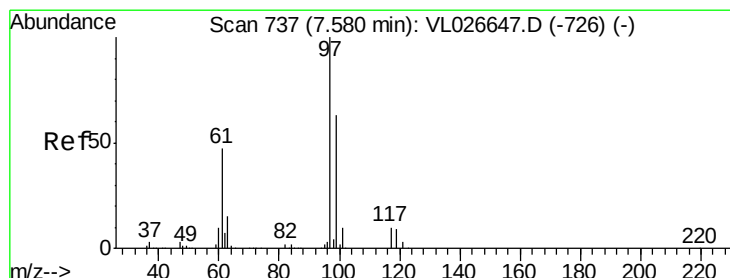
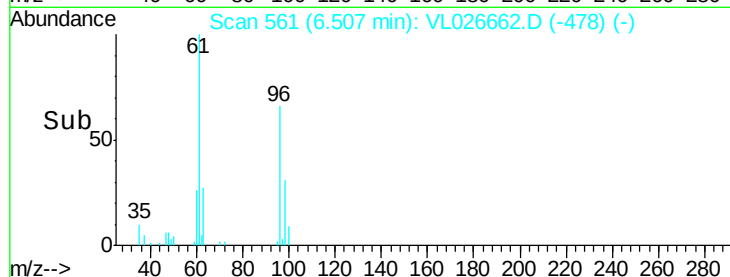
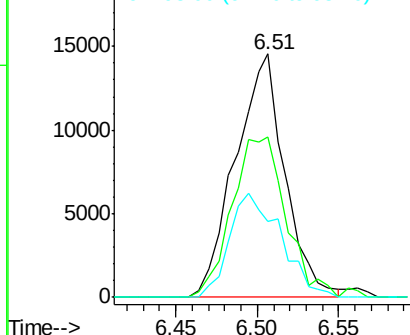
61 100

96 65.9 50.2 75.4

98 31.3 32.4 48.6#



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: 0.43 ppbv

RT: 7.57 min Scan# 736

Delta R.T. -0.01 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

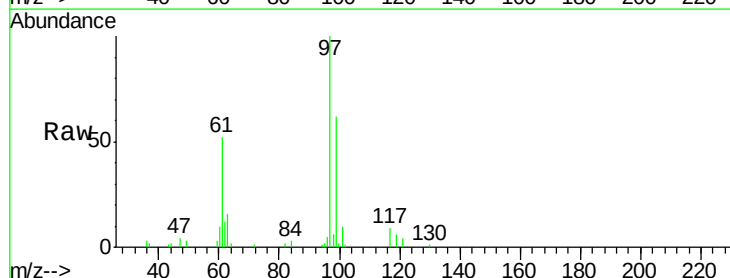
Tgt Ion: 97 Resp: 76010

Ion Ratio Lower Upper

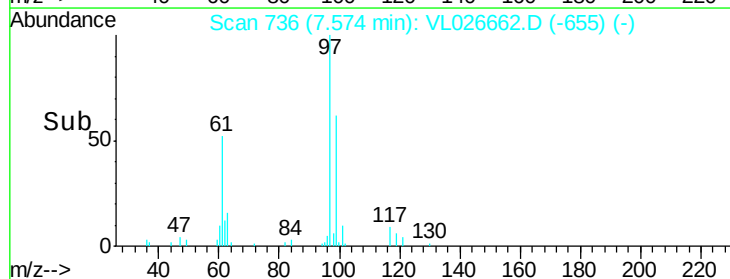
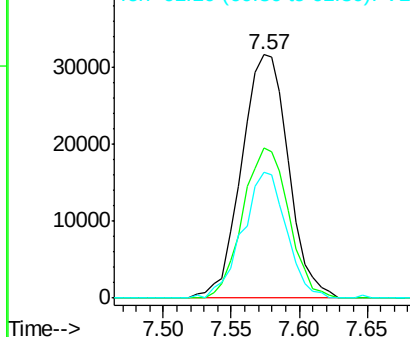
97 100

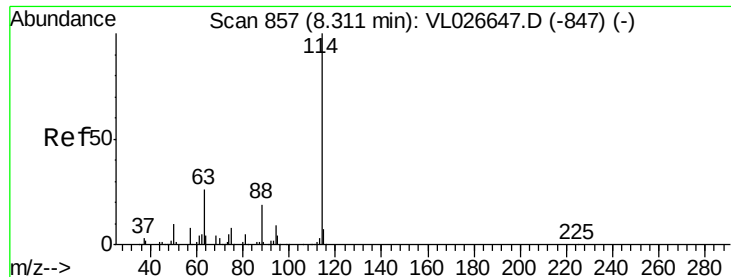
99 60.6 50.8 76.2

61 48.6 38.9 58.3



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: 10.00 ppbv

RT: 8.31 min Scan# 856

Delta R.T. -0.01 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-4

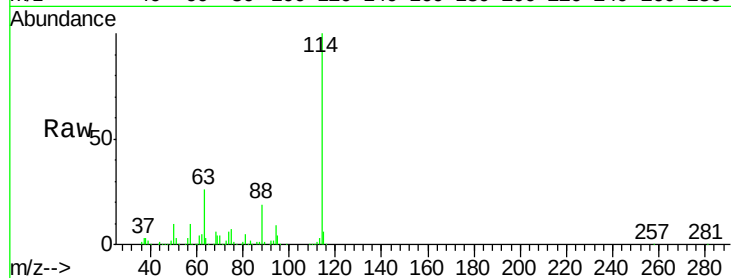
Tot Ion:114 Resp: 2126730

Ion Ratio Lower Upper

114 100

63 26.0 21.7 32.5

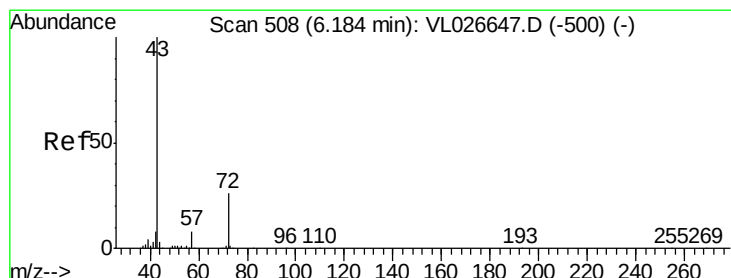
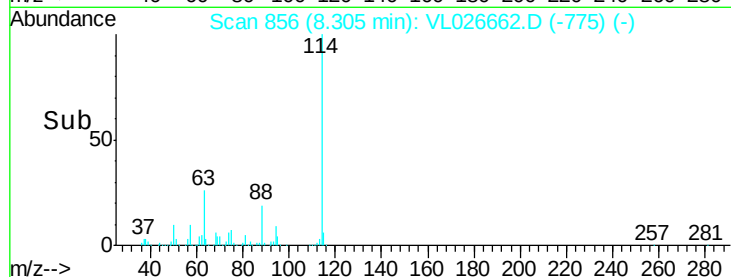
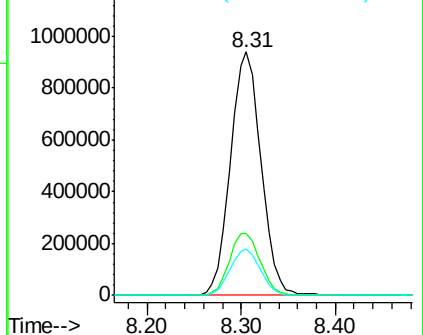
88 18.9 15.2 22.8



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: 0.34 ppbv

RT: 6.21 min Scan# 512

Delta R.T. 0.02 min

Lab File: VL026662.D

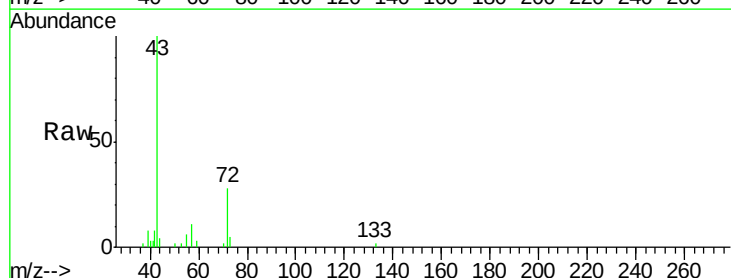
Acq: 9 Jan 2016 5:47

Tgt Ion: 43 Resp: 38135

Ion Ratio Lower Upper

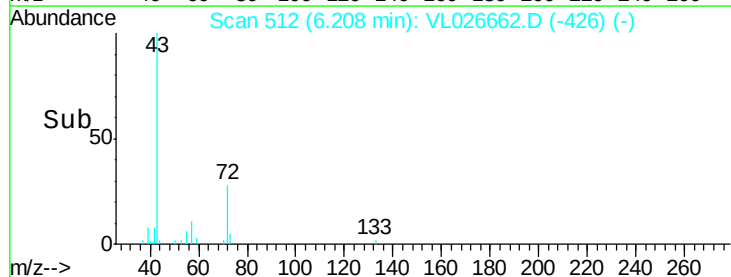
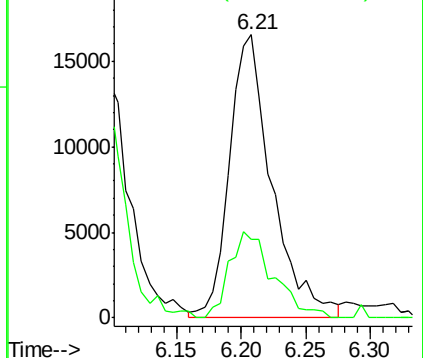
43 100

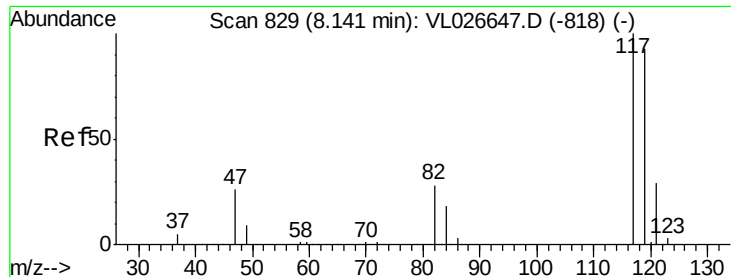
72 32.0 20.9 31.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.40 ppbv

RT: 8.14 min Scan# 829

Delta R.T. -0.00 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-4

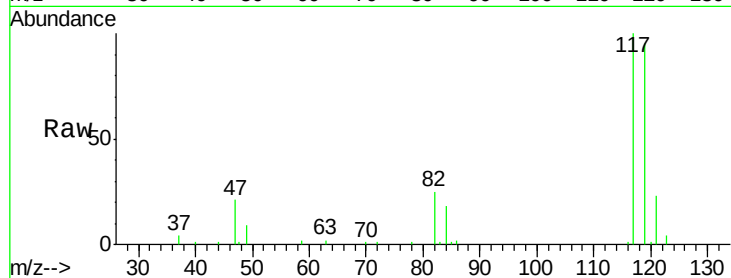
Tot Ion:117 Resp: 75720

Ion Ratio Lower Upper

117 100

119 95.5 74.7 112.1

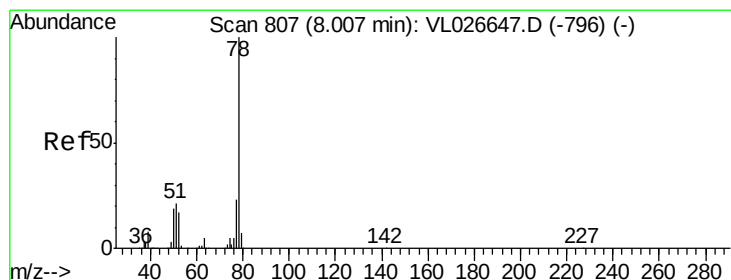
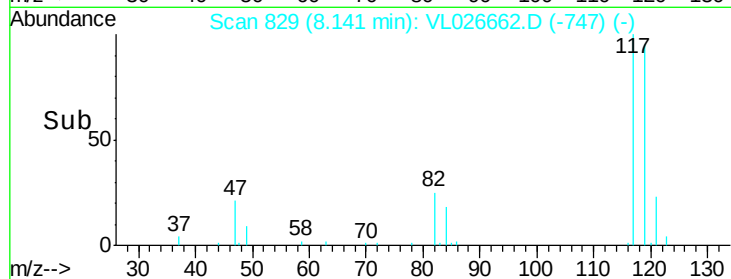
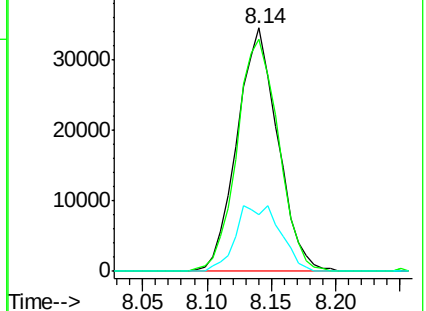
121 23.1 23.1 34.7



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: 0.33 ppbv

RT: 8.01 min Scan# 807

Delta R.T. -0.00 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

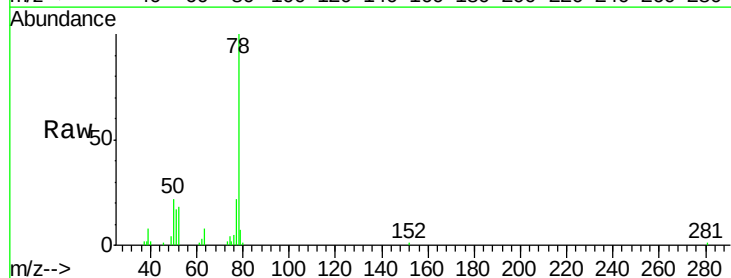
Tgt Ion: 78 Resp: 71985

Ion Ratio Lower Upper

78 100

77 22.3 18.5 27.7

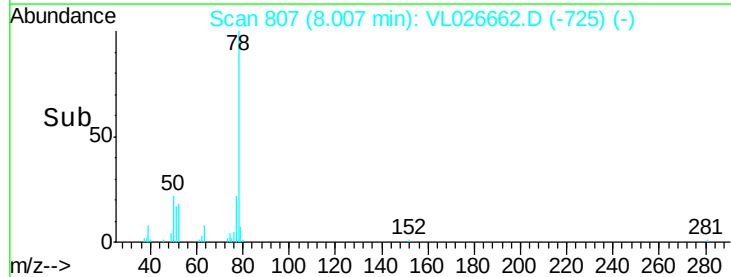
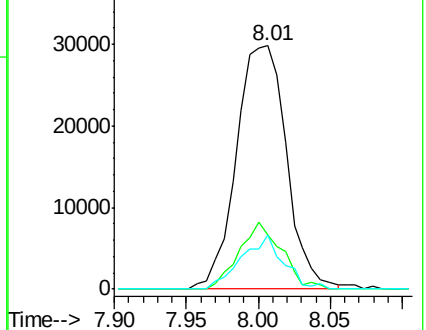
50 22.0 15.4 23.2

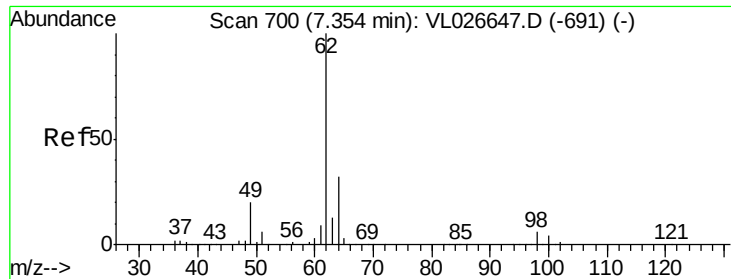


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

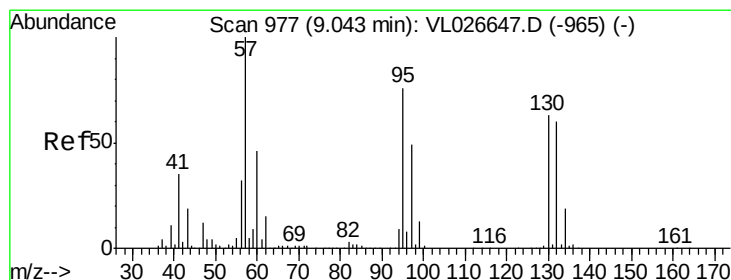
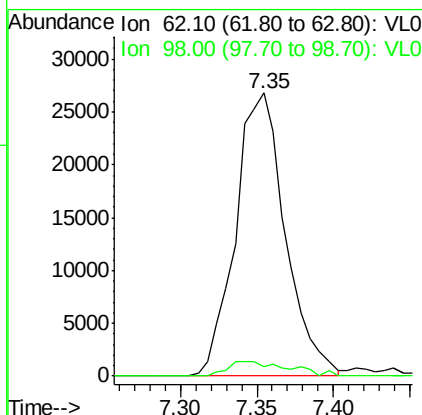
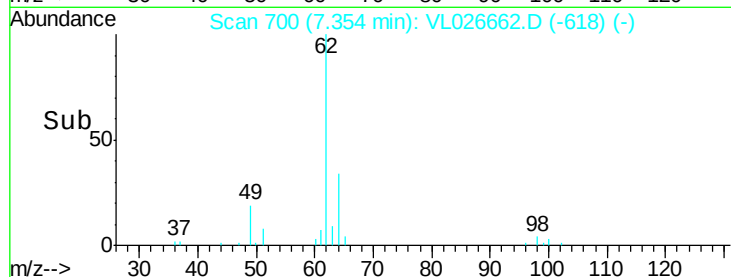
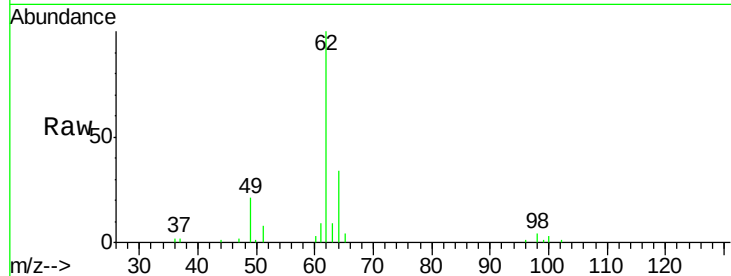




#37
 1,2-Dichloroethane
 Concen: 0.40 ppbv
 RT: 7.35 min Scan# 700
 Delta R.T. -0.00 min
 Lab File: VL026662.D
 Acq: 9 Jan 2016 5:47

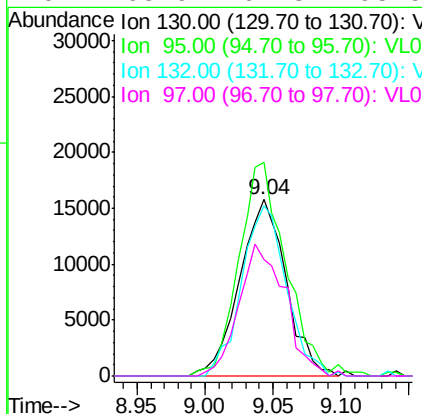
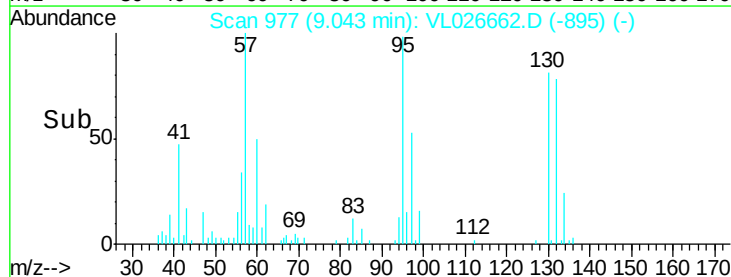
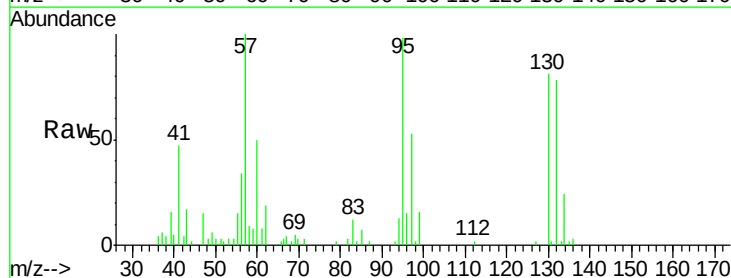
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-4

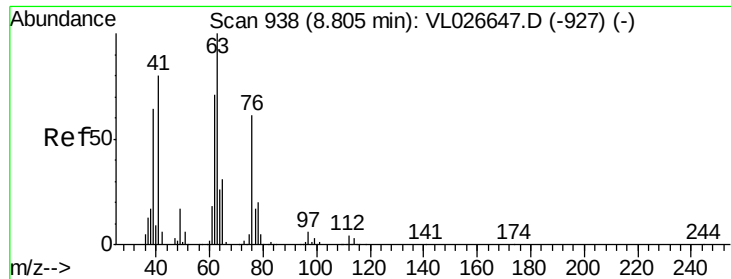
Tot Ion: 62 Resp: 60599
 Ion Ratio Lower Upper
 62 100
 98 6.3 4.8 7.2



#38
 Trichloroethene
 Concen: 0.39 ppbv
 RT: 9.04 min Scan# 977
 Delta R.T. -0.00 min
 Lab File: VL026662.D
 Acq: 9 Jan 2016 5:47

Tgt Ion: 130 Resp: 37795
 Ion Ratio Lower Upper
 130 100
 95 121.0 96.6 145.0
 132 96.2 76.2 114.4
 97 65.9 62.3 93.5

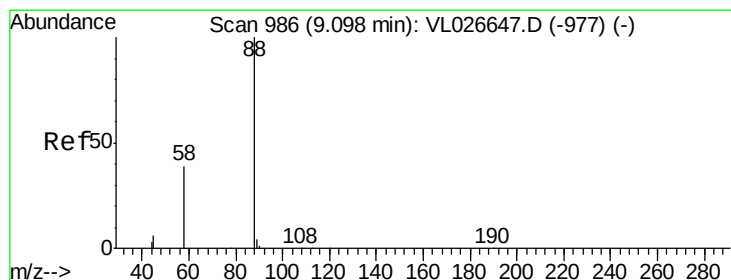
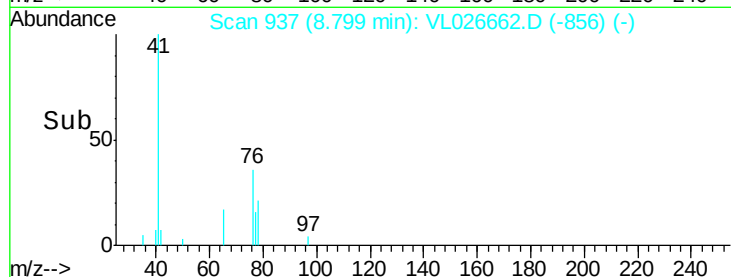
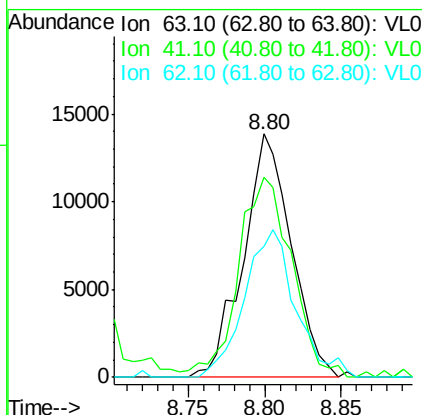
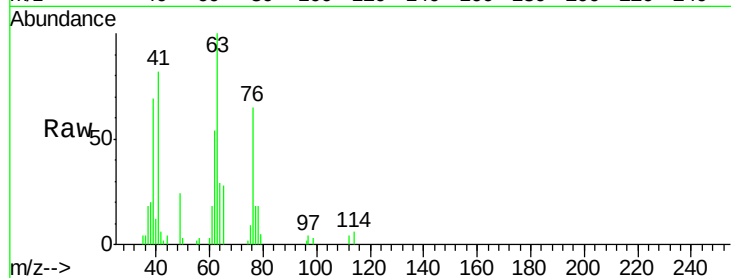




#39
 1,2-Dichloropropane
 Concen: 0.40 ppbv
 RT: 8.80 min Scan# 937
 Delta R.T. -0.01 min
 Lab File: VL026662.D
 Acq: 9 Jan 2016 5:47

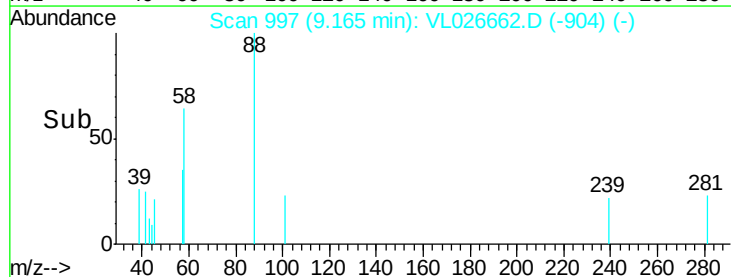
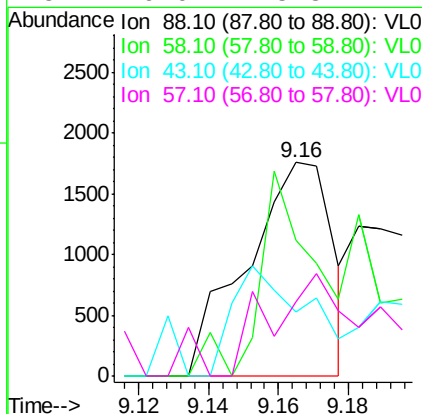
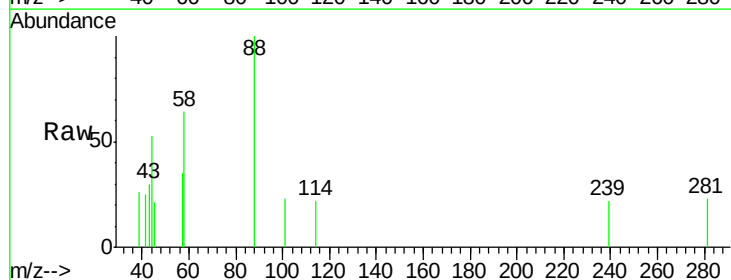
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-4

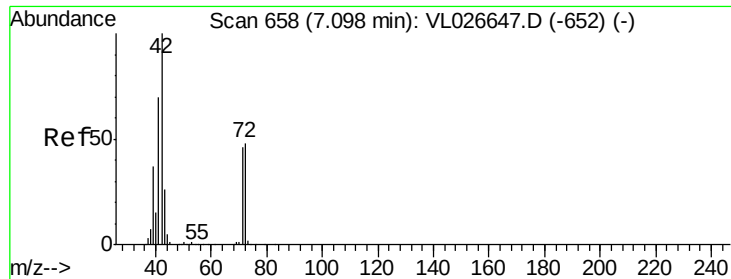
Tot Ion: 63 Resp: 30145
 Ion Ratio Lower Upper
 63 100
 41 79.3 64.1 96.1
 62 53.8 56.6 84.8#



#40
 1,4-Dioxane
 Concen: 0.17 ppbv
 RT: 9.16 min Scan# 997
 Delta R.T. 0.07 min
 Lab File: VL026662.D
 Acq: 9 Jan 2016 5:47

Tgt Ion: 88 Resp: 2990
 Ion Ratio Lower Upper
 88 100
 58 155.1 109.4 164.2
 43 94.1 238.2 357.2#
 57 0.0 1148.3 1722.5#





#41

Tetrahydrofuran

Concen: 0.29 ppbv

RT: 7.15 min Scan# 666

Delta R.T. 0.05 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-4

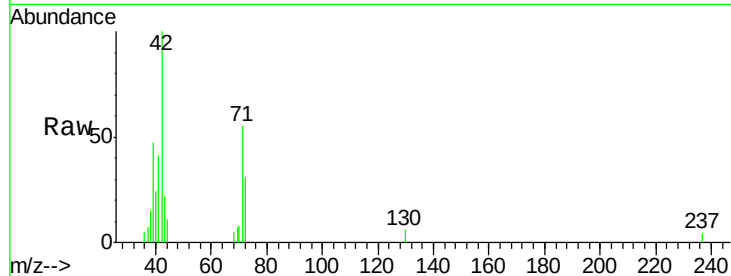
Tot Ion: 42 Resp: 16066

Ion Ratio Lower Upper

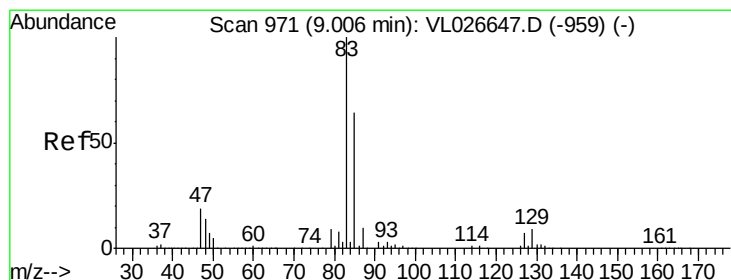
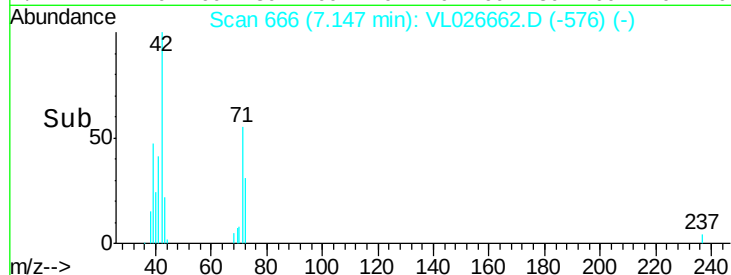
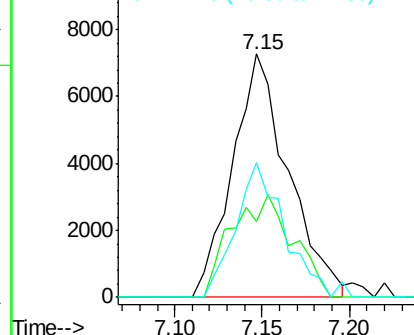
42 100

72 46.6 40.6 60.8

71 49.1 38.4 57.6



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 0.39 ppbv

RT: 9.00 min Scan# 970

Delta R.T. -0.01 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

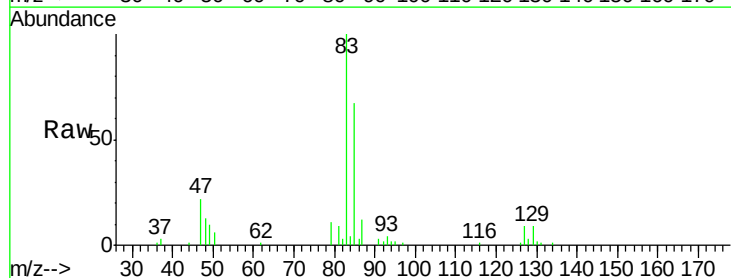
Tgt Ion: 83 Resp: 75668

Ion Ratio Lower Upper

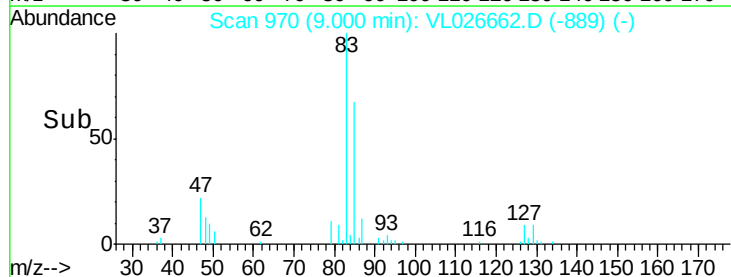
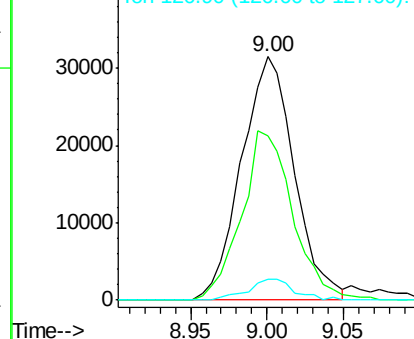
83 100

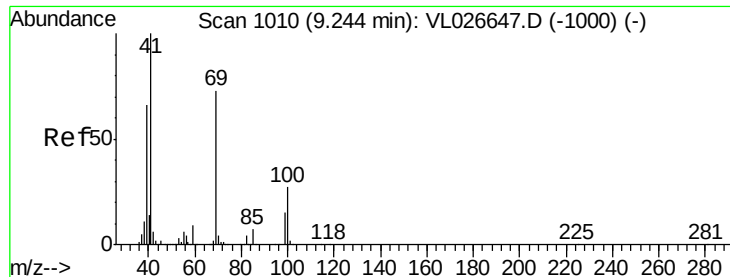
85 67.3 50.9 76.3

127 8.6 5.5 8.3#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V

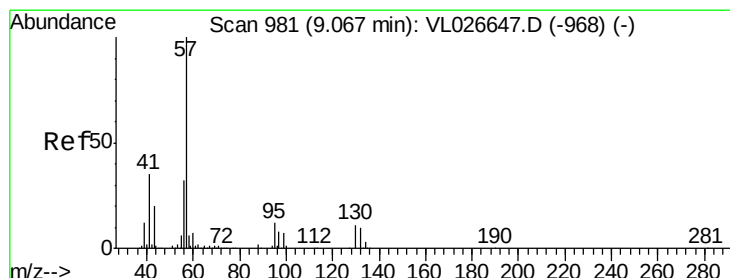
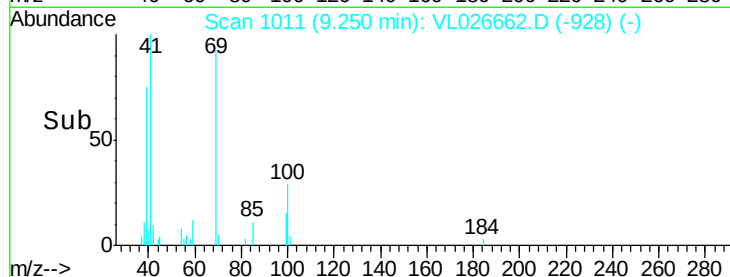
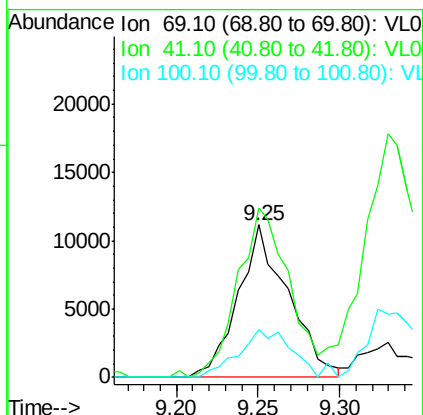
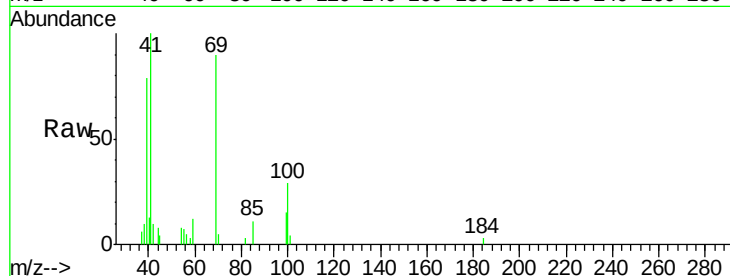




#43
Methyl Methacrylate
Concen: 0.30 ppbv
RT: 9.25 min Scan# 1011
Delta R.T. 0.01 min
Lab File: VL026662.D
Acq: 9 Jan 2016 5:47

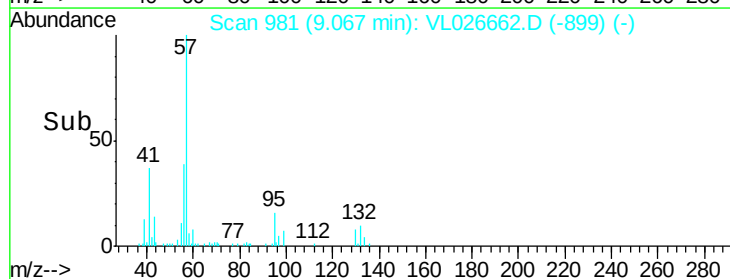
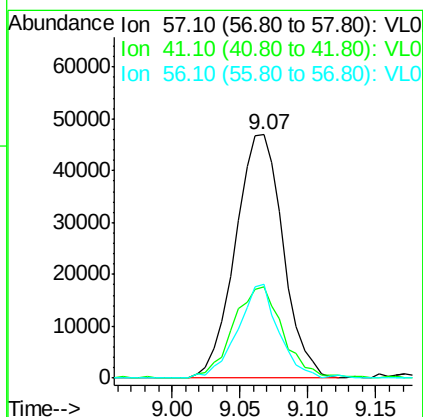
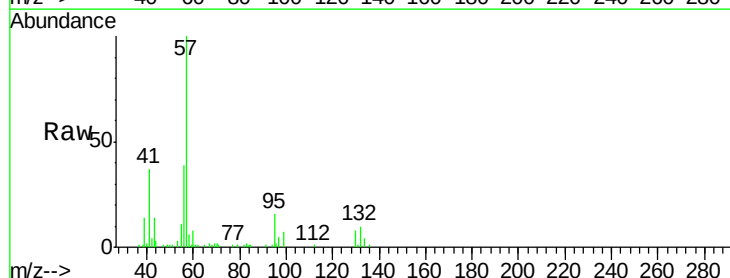
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-4

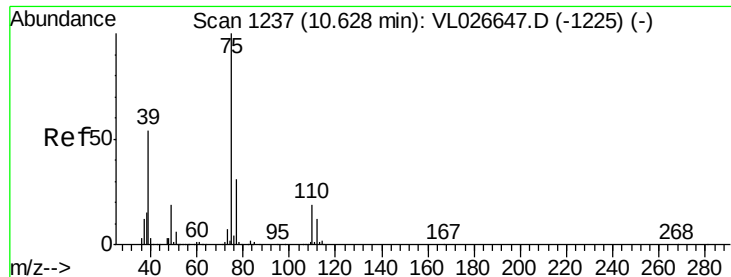
Tot Ion: 69 Resp: 23722
Ion Ratio Lower Upper
69 100
41 113.9 106.1 159.1
100 32.6 29.0 43.4



#44
2,2,4-Trimethylpentane
Concen: 0.33 ppbv
RT: 9.07 min Scan# 981
Delta R.T. -0.00 min
Lab File: VL026662.D
Acq: 9 Jan 2016 5:47

Tgt Ion: 57 Resp: 115147
Ion Ratio Lower Upper
57 100
41 39.3 26.9 40.3
56 33.5 25.4 38.0





#45

t-1,3-Dichloropropene

Concen: 0.26 ppbv

RT: 10.63 min Scan# 1238

Delta R.T. 0.01 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Instrument :

MSVOA_L

ClientSampleId :

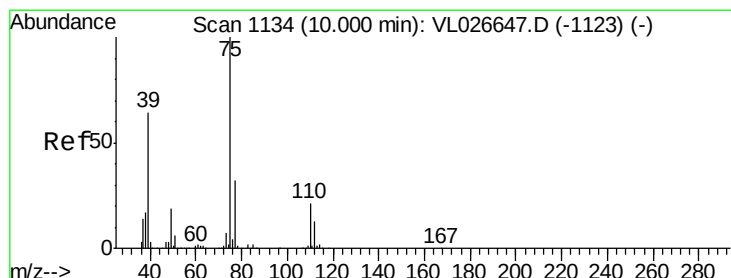
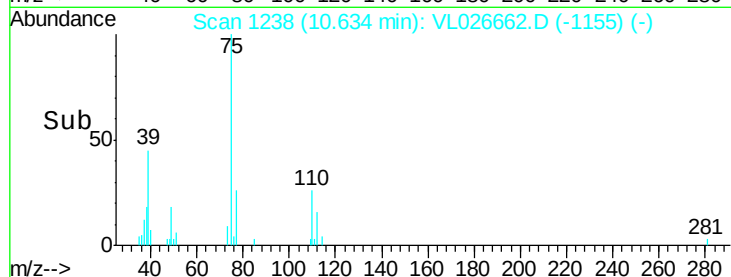
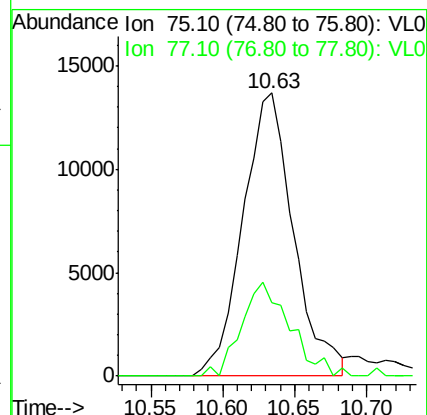
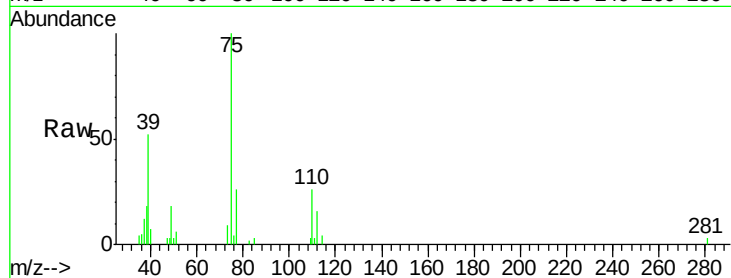
MDL-AIR-4

Tot Ion: 75 Resp: 33466

Ion Ratio Lower Upper

75 100

77 26.2 24.6 37.0



#46

cis-1,3-Dichloropropene

Concen: 0.27 ppbv

RT: 10.00 min Scan# 1134

Delta R.T. -0.00 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

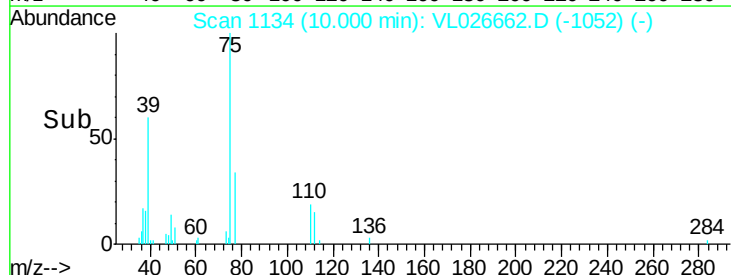
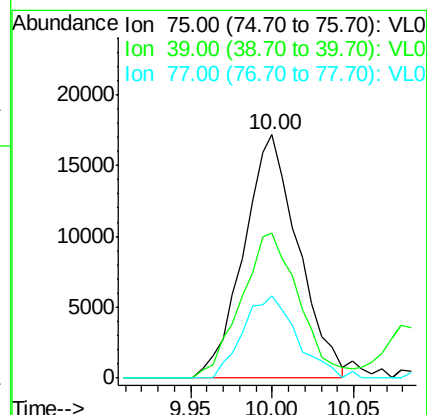
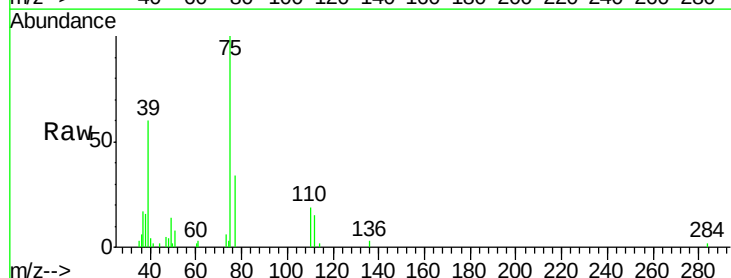
Tgt Ion: 75 Resp: 39921

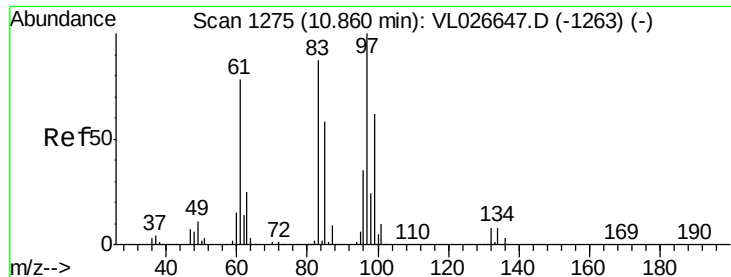
Ion Ratio Lower Upper

75 100

39 59.6 51.2 76.8

77 33.6 25.9 38.9





#47

1,1,2-Trichloroethane

Concen: 0.42 ppbv

RT: 10.85 min Scan# 1274

Delta R.T. -0.01 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-4

Tot Ion: 97 Resp: 44839

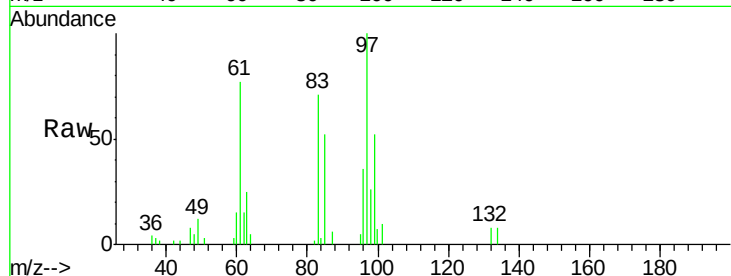
Ion Ratio Lower Upper

97 100

83 71.4 69.5 104.3

85 50.2 46.4 69.6

99 51.8 49.9 74.9

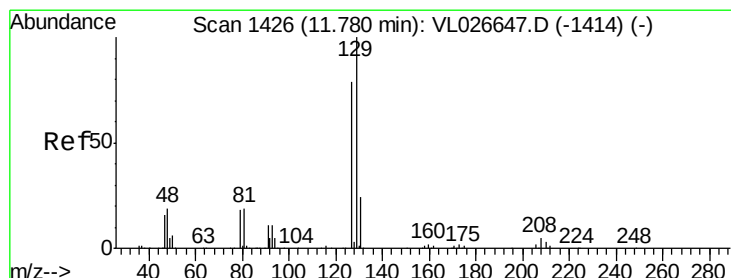
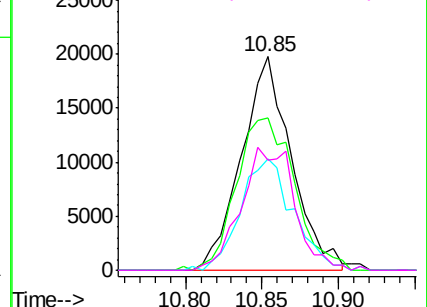
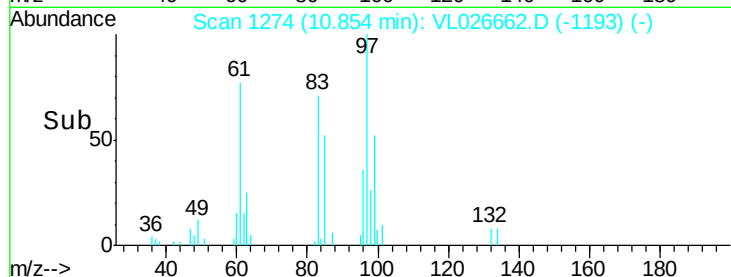


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 0.40 ppbv

RT: 11.77 min Scan# 1425

Delta R.T. -0.01 min

Lab File: VL026662.D

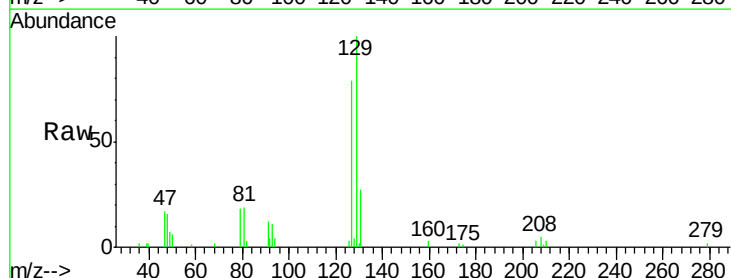
Acq: 9 Jan 2016 5:47

Tgt Ion: 129 Resp: 65515

Ion Ratio Lower Upper

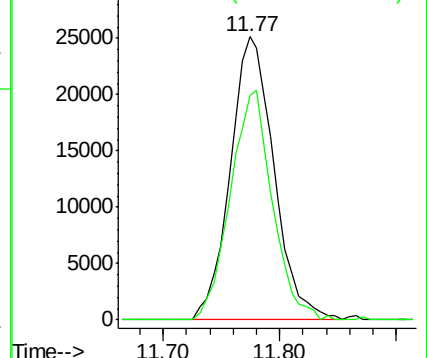
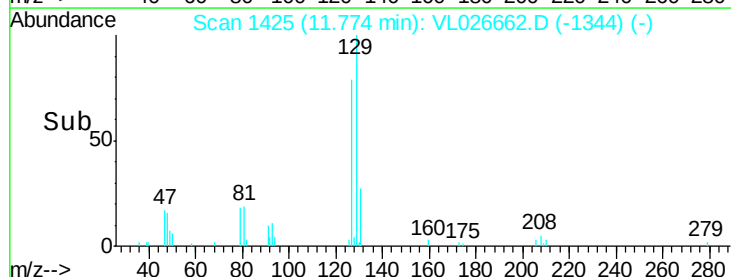
129 100

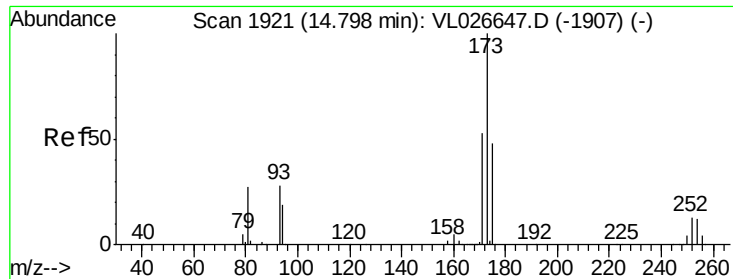
127 78.1 39.5 118.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.40 ppbv

RT: 14.79 min Scan# 1920

Delta R.T. -0.01 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-4

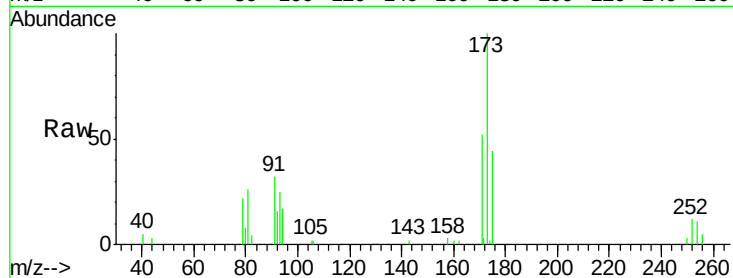
Tot Ion:173 Resp: 53054

Ion Ratio Lower Upper

173 100

175 50.0 38.6 58.0

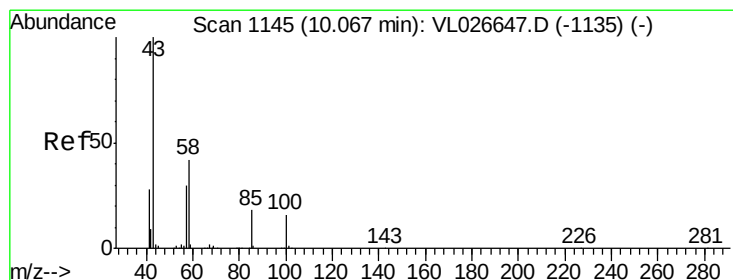
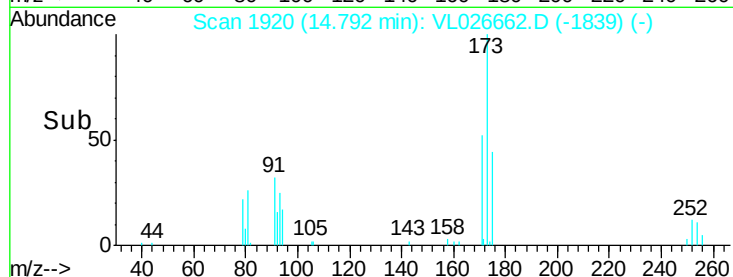
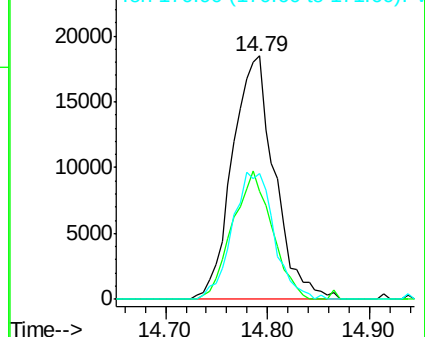
171 51.6 41.5 62.3



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: 0.28 ppbv

RT: 10.09 min Scan# 1148

Delta R.T. 0.02 min

Lab File: VL026662.D

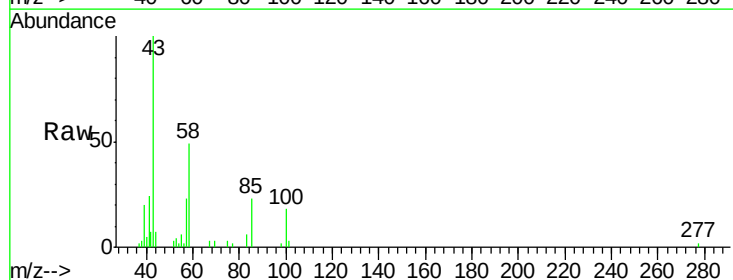
Acq: 9 Jan 2016 5:47

Tgt Ion: 43 Resp: 44194

Ion Ratio Lower Upper

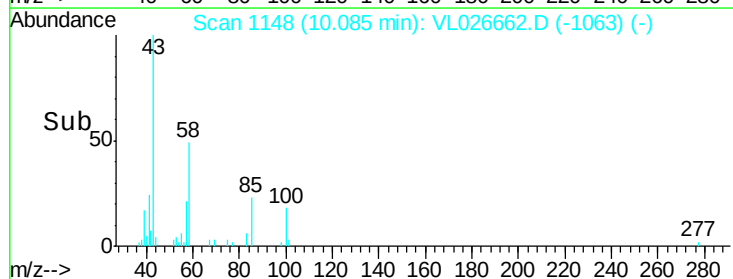
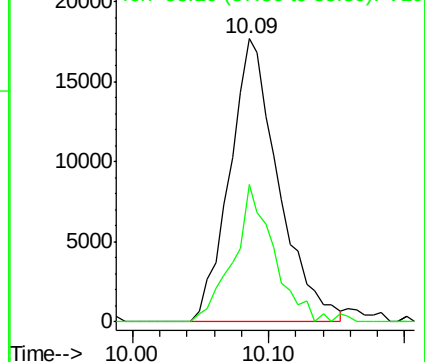
43 100

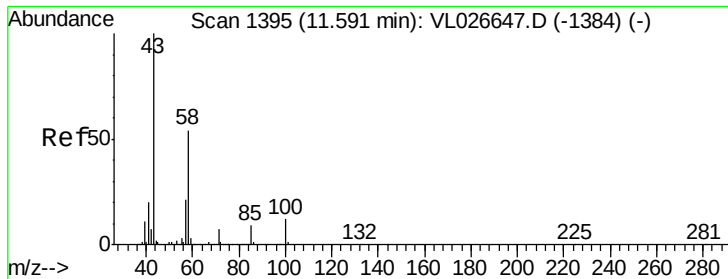
58 40.5 32.4 48.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 0.27 ppbv

RT: 11.62 min Scan# 1400

Delta R.T. 0.03 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-4

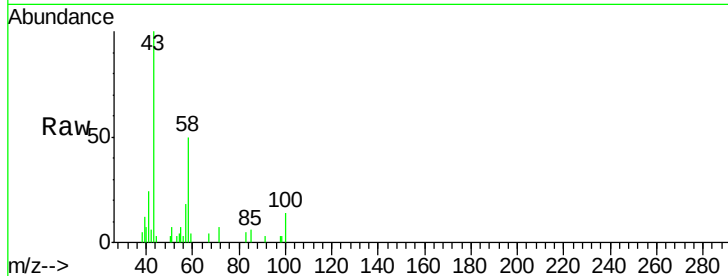
Tot Ion: 43 Resp: 39423

Ion Ratio Lower Upper

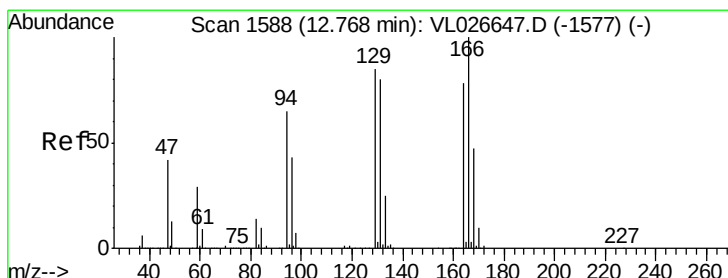
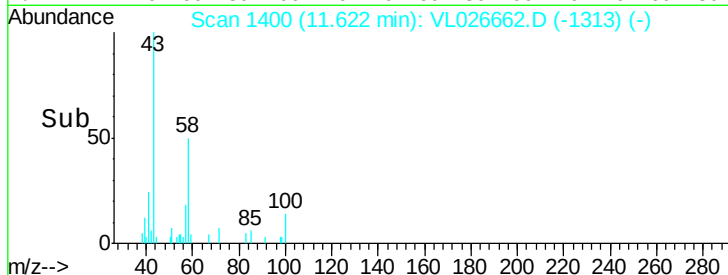
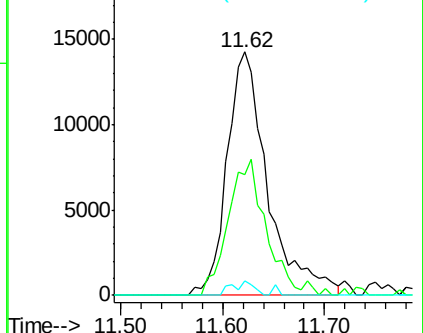
43 100

58 53.2 44.9 67.3

98 3.7 0.2 0.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 0.40 ppbv

RT: 12.77 min Scan# 1588

Delta R.T. -0.00 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Tgt Ion: 164 Resp: 43607

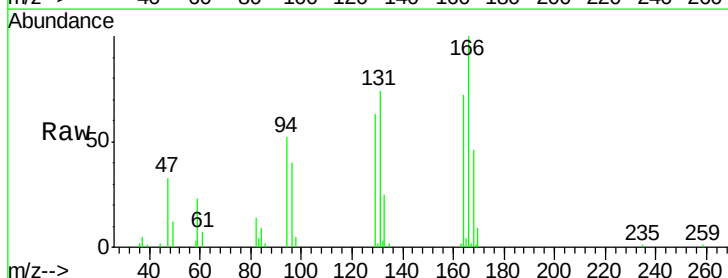
Ion Ratio Lower Upper

164 100

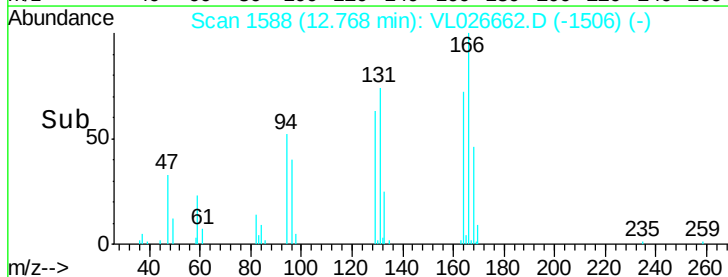
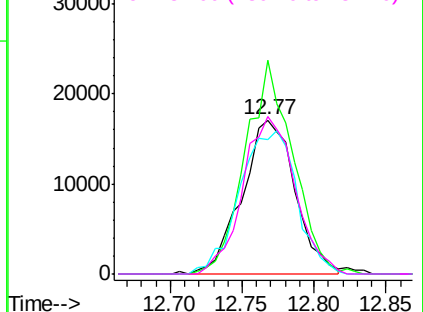
166 138.9 102.5 153.7

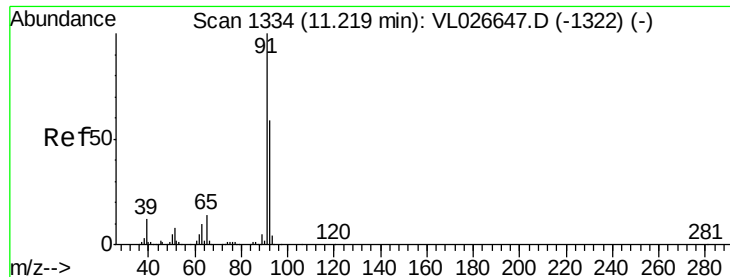
129 87.5 87.0 130.6

131 102.2 82.5 123.7



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: 0.31 ppbv

RT: 11.22 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Instrument :

MSVOA_L

ClientSampleId :

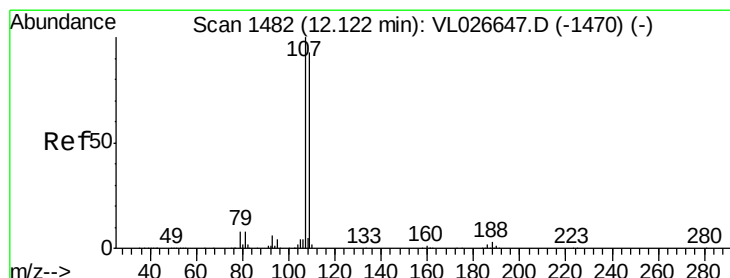
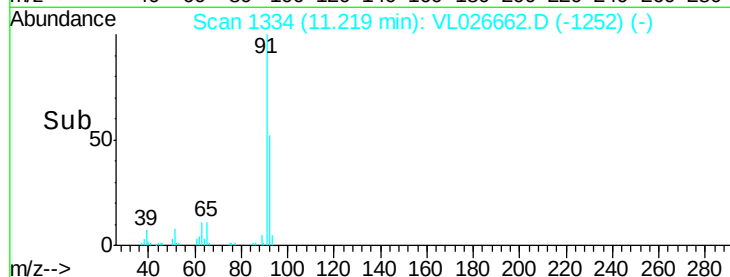
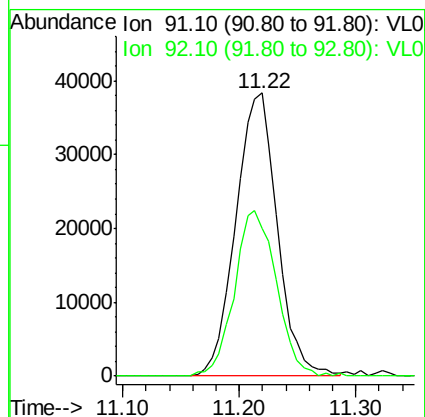
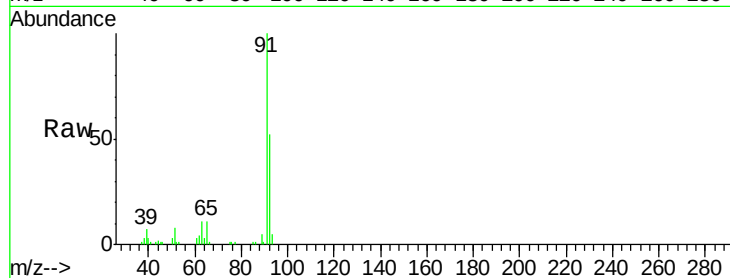
MDL-AIR-4

Tot Ion: 91 Resp: 95352

Ion Ratio Lower Upper

91 100

92 58.9 48.2 72.4



#54

1,2-Dibromoethane

Concen: 0.41 ppbv

RT: 12.12 min Scan# 1482

Delta R.T. -0.00 min

Lab File: VL026662.D

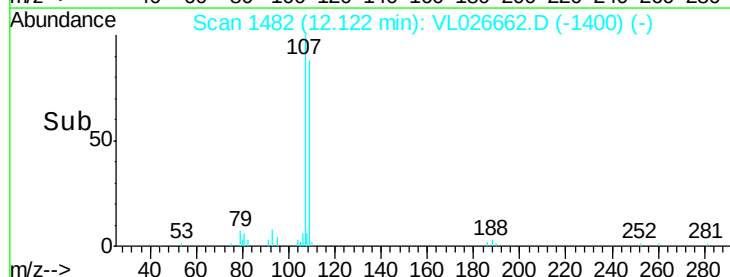
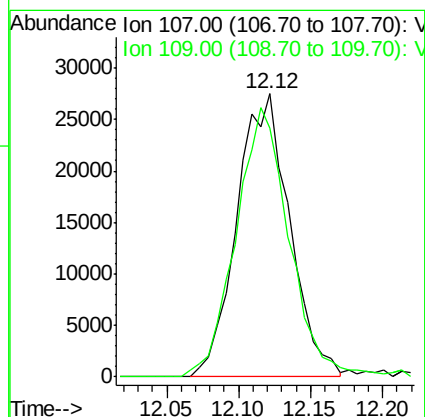
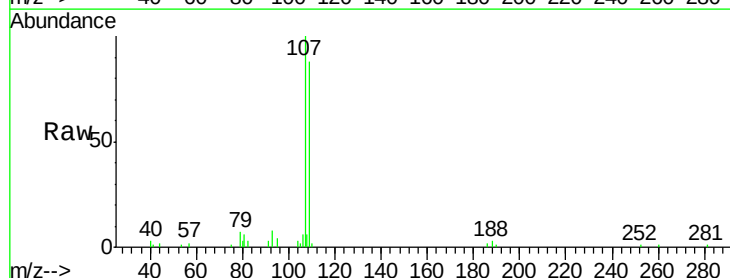
Acq: 9 Jan 2016 5:47

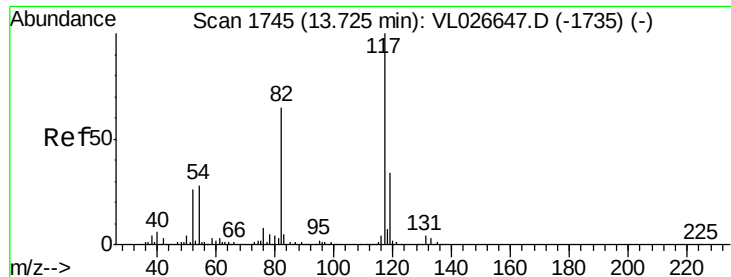
Tgt Ion: 107 Resp: 69834

Ion Ratio Lower Upper

107 100

109 85.6 74.1 111.1





#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.72 min Scan# 1744

Delta R.T. -0.01 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-4

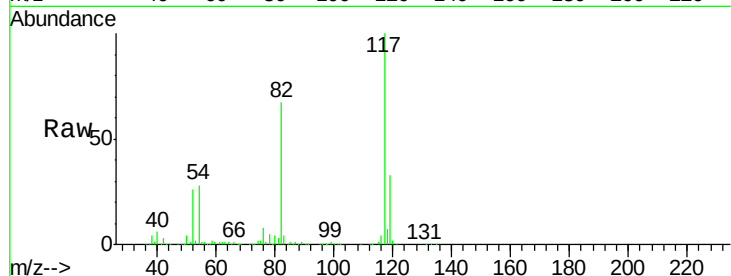
Tot Ion:117 Resp: 2882130

Ion Ratio Lower Upper

117 100

82 65.0 49.7 74.5

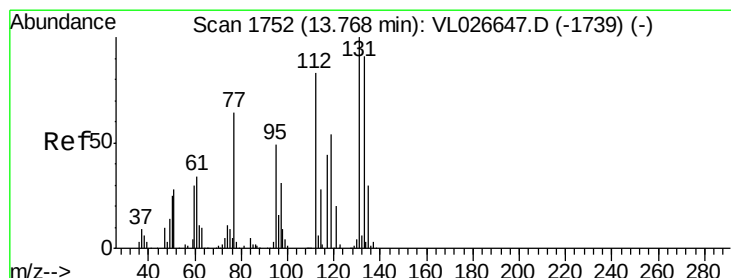
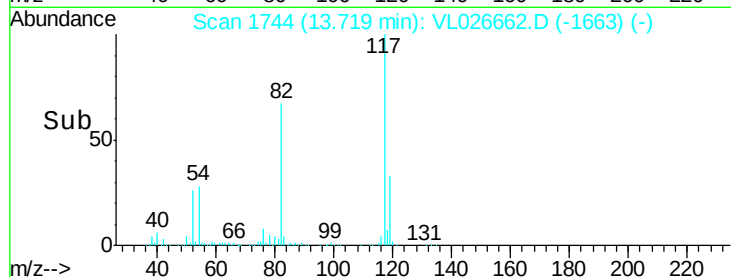
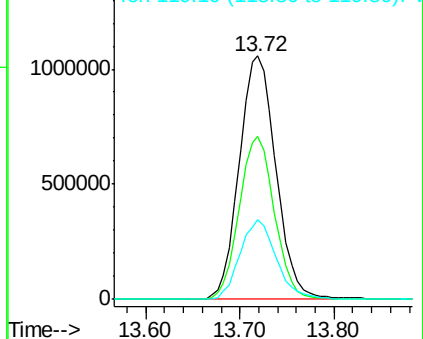
119 32.7 43.8 65.8#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 0.44 ppbv

RT: 13.76 min Scan# 1751

Delta R.T. -0.01 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

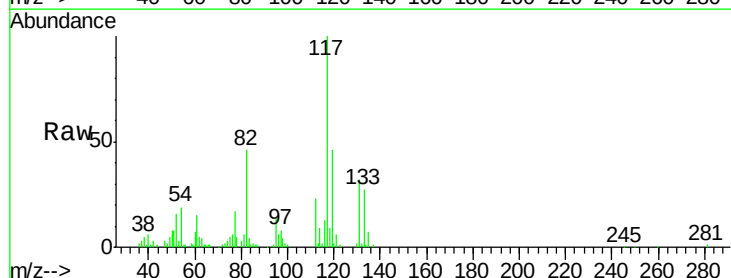
Tgt Ion:131 Resp: 58229

Ion Ratio Lower Upper

131 100

133 95.9 76.2 114.4

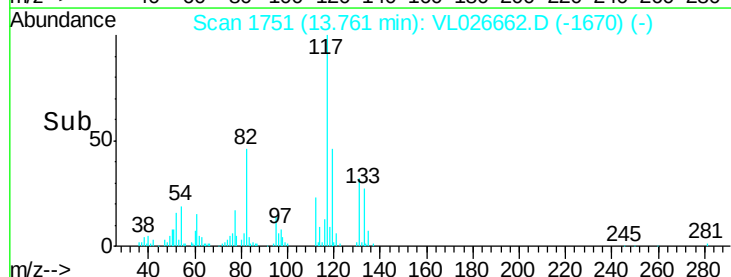
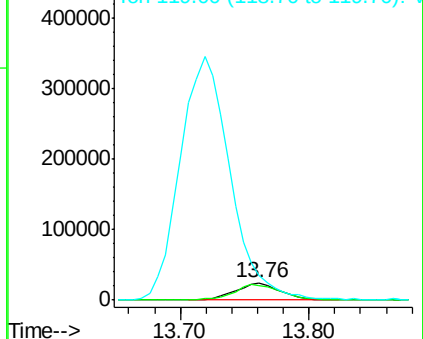
119 1617.0 104.3 156.5#

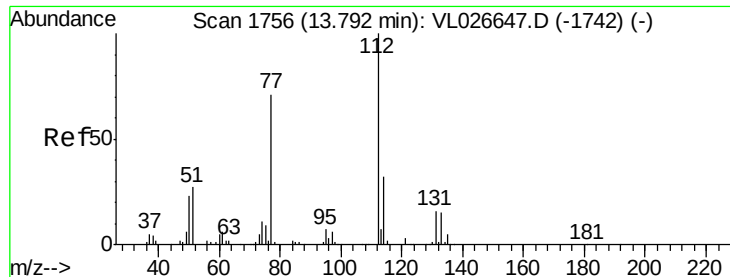


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

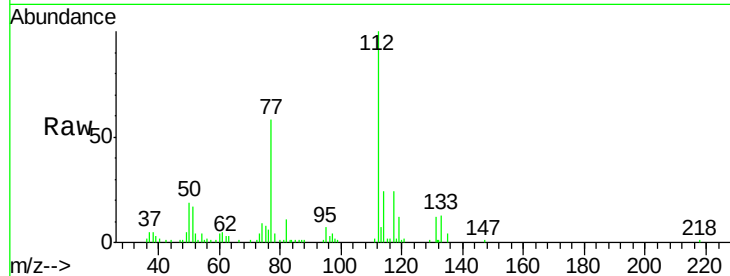




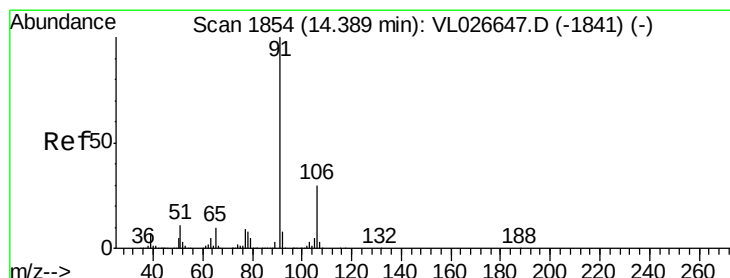
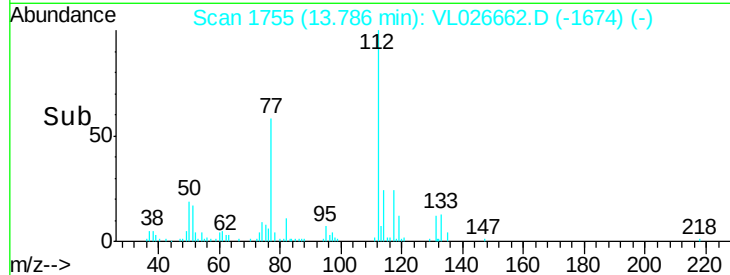
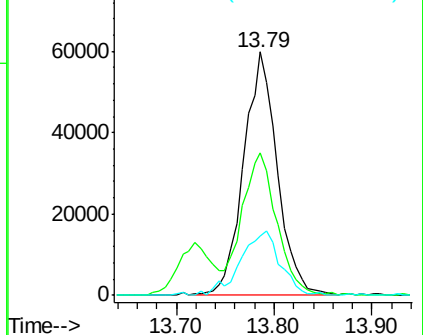
#57
Chlorobenzene
Concen: 0.48 ppbv
RT: 13.79 min Scan# 1755
Delta R.T. -0.01 min
Lab File: VL026662.D
Acq: 9 Jan 2016 5:47

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-4

Tot Ion:112 Resp: 143069
Ion Ratio Lower Upper
112 100
77 58.3 56.9 85.3
114 24.3 28.8 35.2#

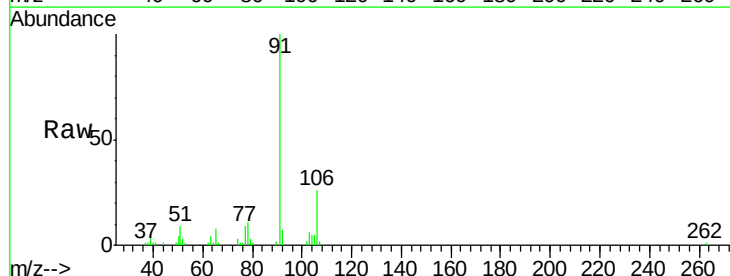


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

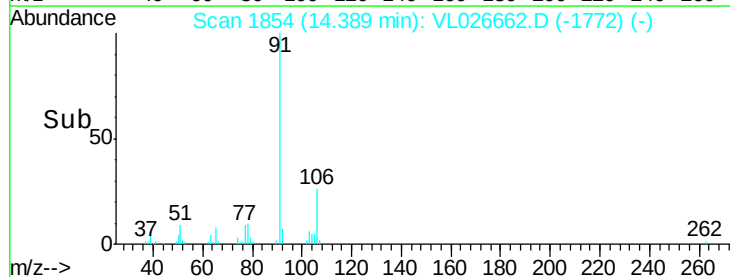
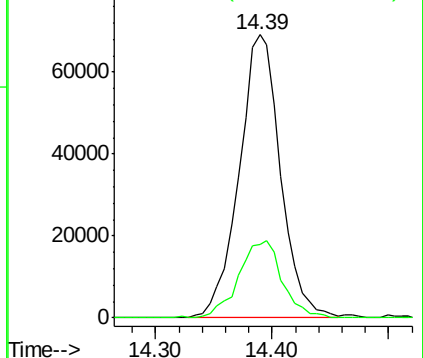


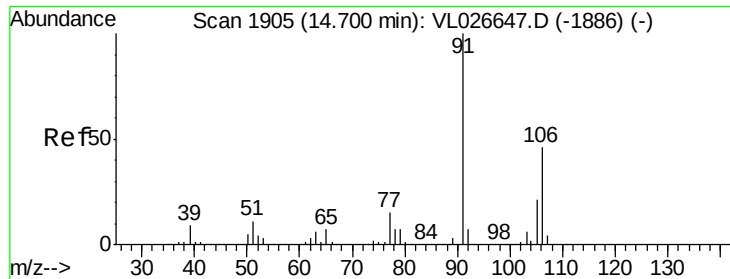
#58
Ethyl Benzene
Concen: 0.33 ppbv
RT: 14.39 min Scan# 1854
Delta R.T. -0.00 min
Lab File: VL026662.D
Acq: 9 Jan 2016 5:47

Tgt Ion: 91 Resp: 171021
Ion Ratio Lower Upper
91 100
106 26.1 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V

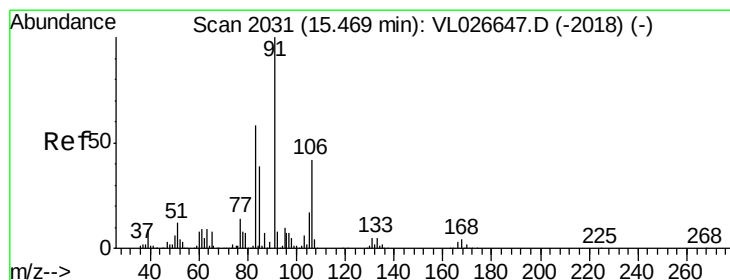
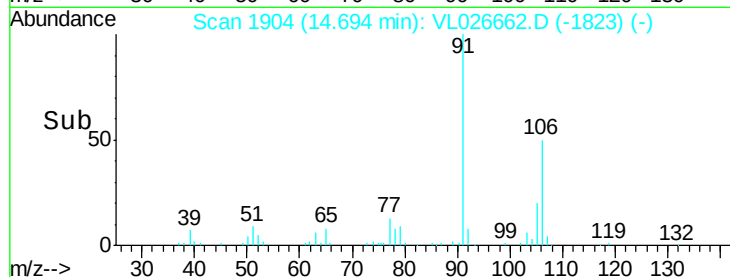
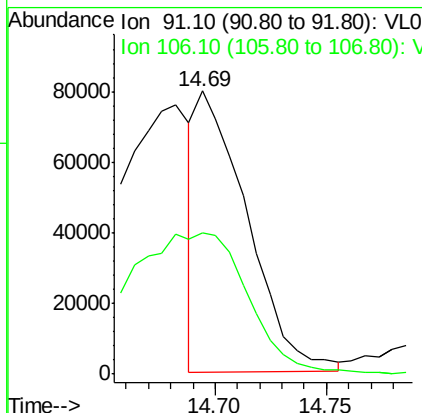
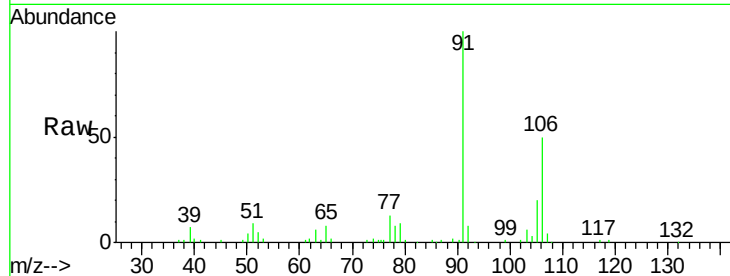




#59
m/p-Xylene
Concen: 0.30 ppbv
RT: 14.69 min Scan# 1904
Delta R.T. -0.01 min
Lab File: VL026662.D
Acq: 9 Jan 2016 5:47

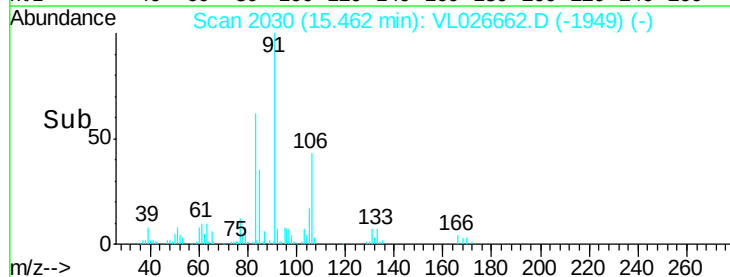
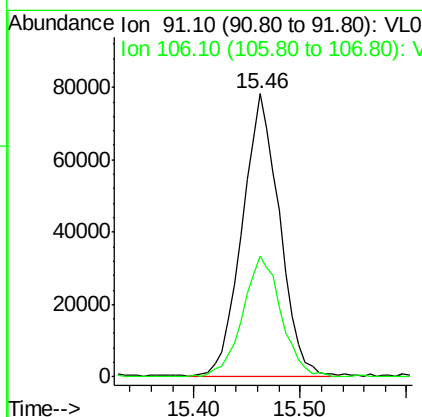
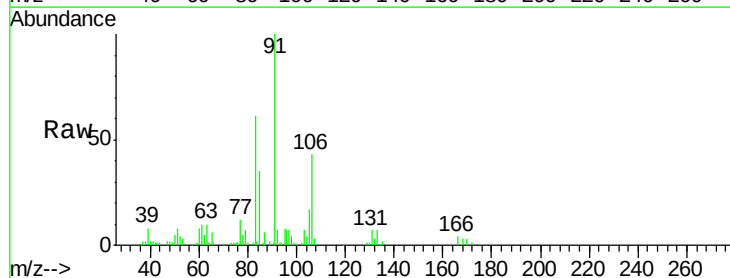
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-4

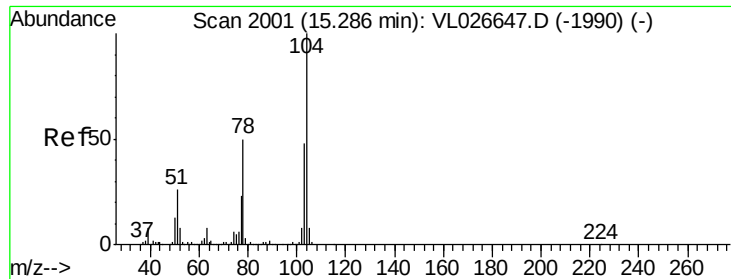
Tot Ion: 91 Resp: 125875
Ion Ratio Lower Upper
91 100
106 126.3 36.6 55.0#



#60
o-Xylene
Concen: 0.42 ppbv
RT: 15.46 min Scan# 2030
Delta R.T. -0.01 min
Lab File: VL026662.D
Acq: 9 Jan 2016 5:47

Tgt Ion: 91 Resp: 193738
Ion Ratio Lower Upper
91 100
106 43.8 21.5 64.5

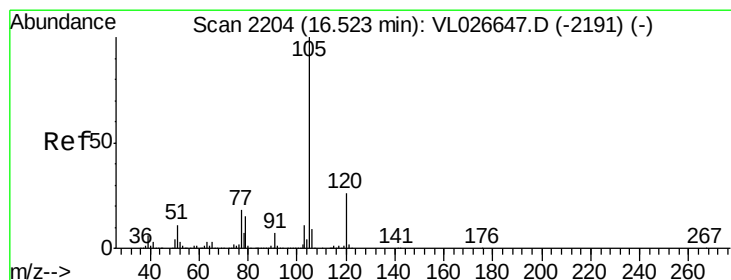
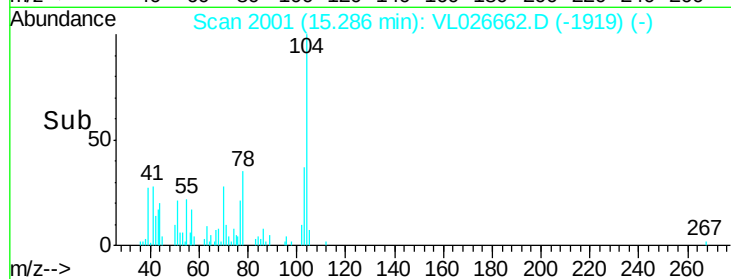
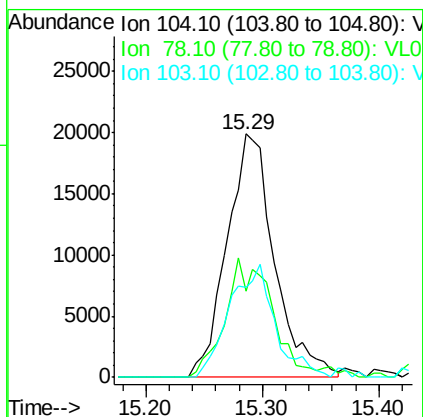
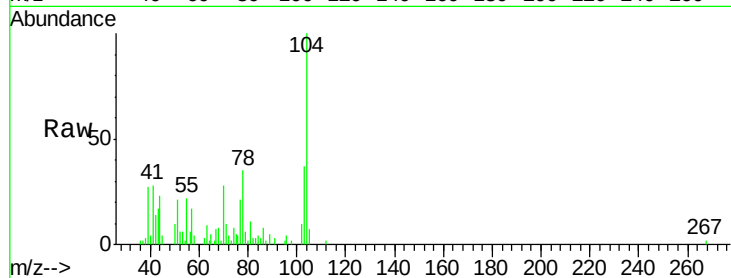




#61
Stvrene
Concen: 0.31 ppbv
RT: 15.29 min Scan# 2001
Delta R.T. -0.00 min
Lab File: VL026662.D
Acq: 9 Jan 2016 5:47

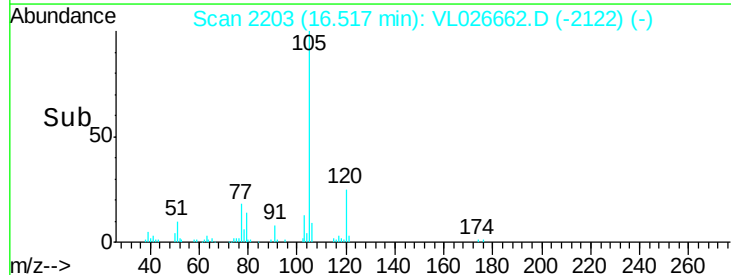
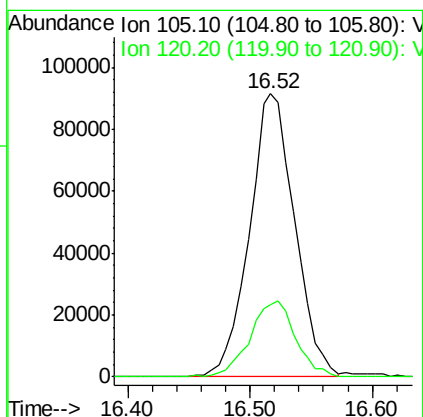
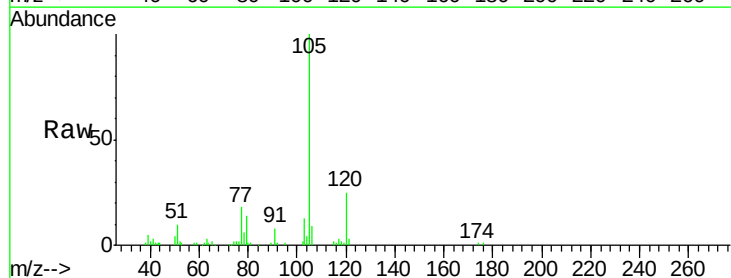
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-4

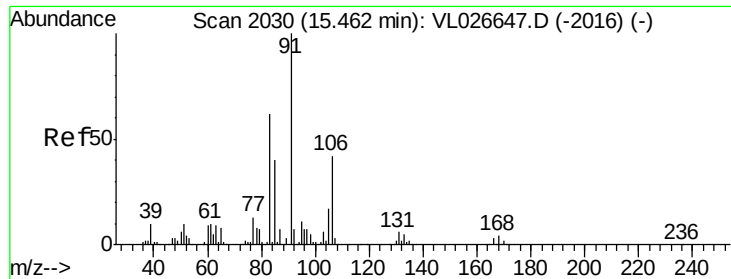
Tot Ion	Ratio	Lower	Upper
104	100		
78	49.6	39.6	59.4
103	45.6	37.8	56.6



#62
Isopropylbenzene
Concen: 0.39 ppbv
RT: 16.52 min Scan# 2203
Delta R.T. -0.01 min
Lab File: VL026662.D
Acq: 9 Jan 2016 5:47

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.0	20.3	30.5

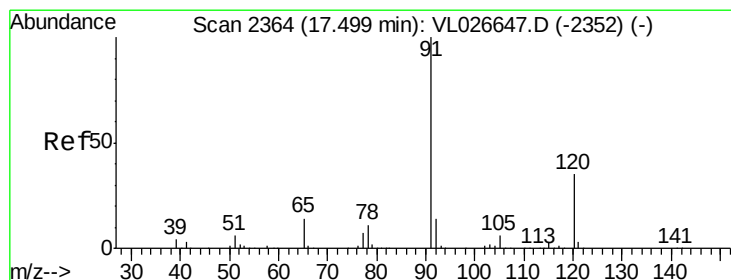
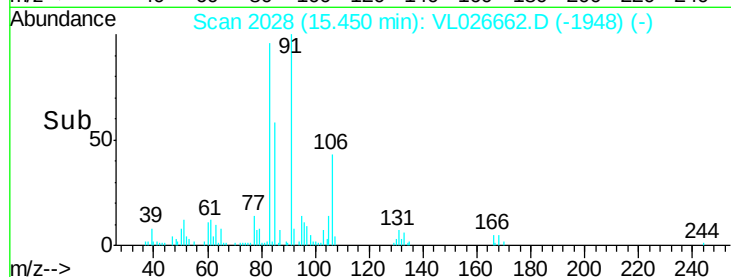
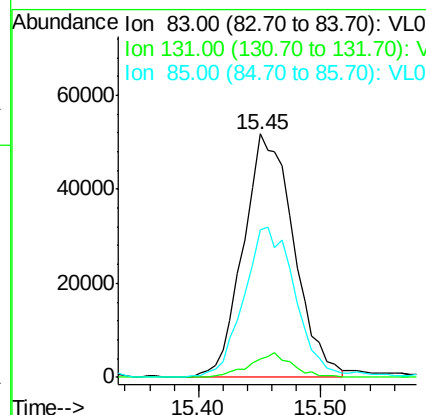
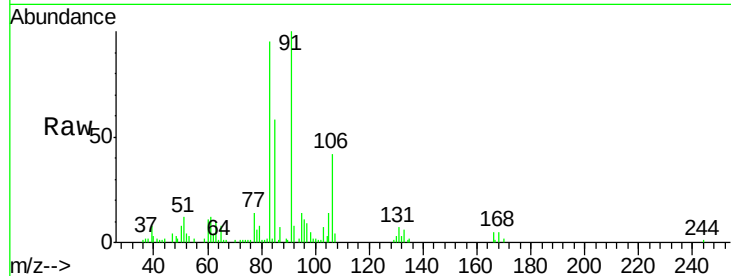




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.43 ppbv
 RT: 15.45 min Scan# 2028
 Delta R.T. -0.01 min
 Lab File: VL026662.D
 Acq: 9 Jan 2016 5:47

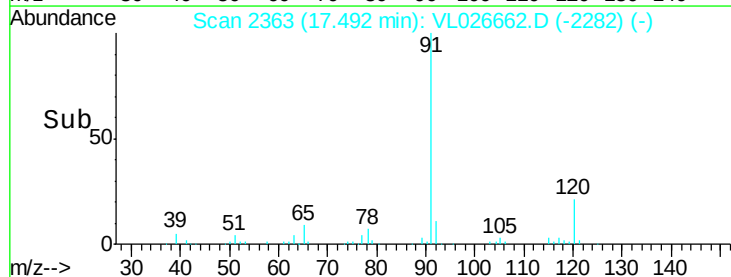
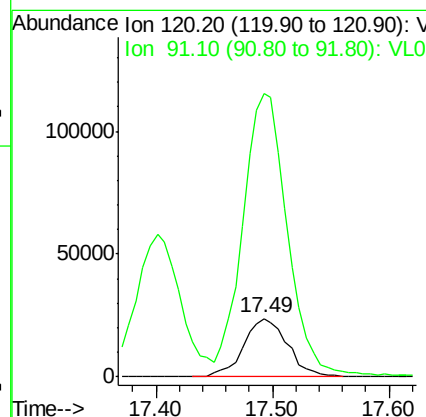
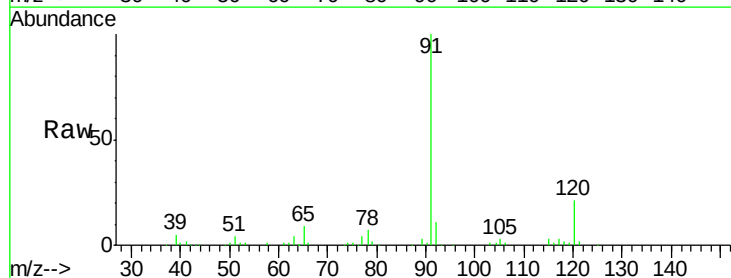
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-4

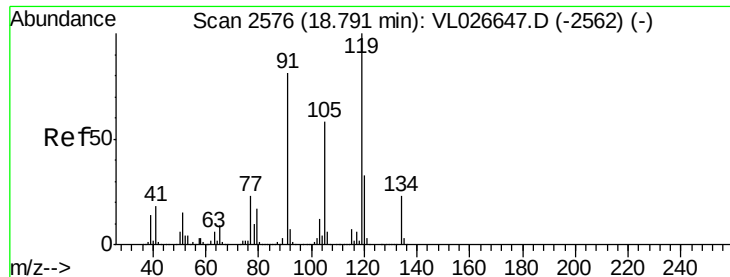
Tot Ion: 83 Resp: 148290
 Ion Ratio Lower Upper
 83 100
 131 8.4 4.5 13.4
 85 64.1 32.6 97.7



#64
 n-propylbenzene
 Concen: 0.38 ppbv
 RT: 17.49 min Scan# 2363
 Delta R.T. -0.01 min
 Lab File: VL026662.D
 Acq: 9 Jan 2016 5:47

Tgt Ion:120 Resp: 62575
 Ion Ratio Lower Upper
 120 100
 91 497.7 375.8 563.6





#65

tert-Butylbenzene

Concen: 0.43 ppbv

RT: 18.78 min Scan# 2575

Delta R.T. -0.01 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-4

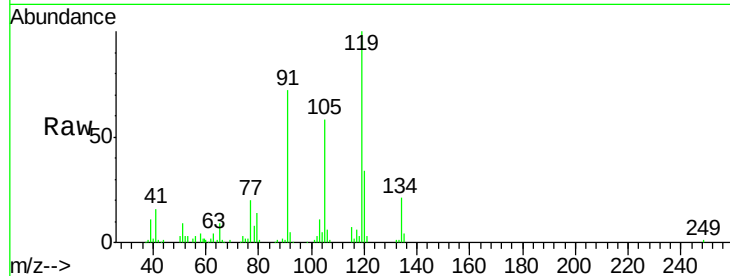
Tot Ion:119 Resp: 239642

Ion Ratio Lower Upper

119 100

91 74.8 64.8 97.2

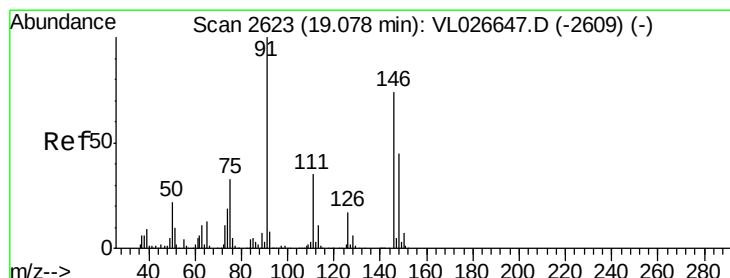
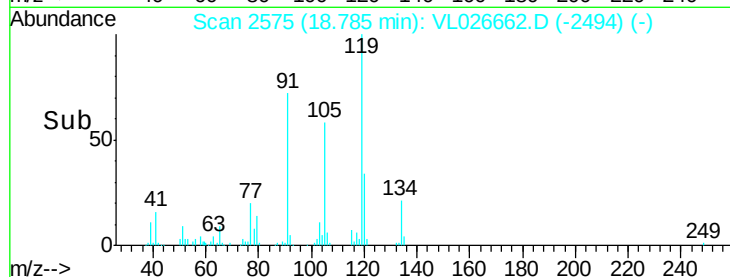
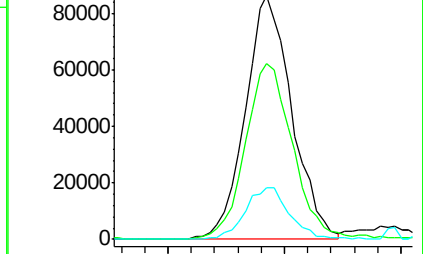
134 20.4 17.4 26.0



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: 0.32 ppbv

RT: 19.08 min Scan# 2623

Delta R.T. -0.00 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

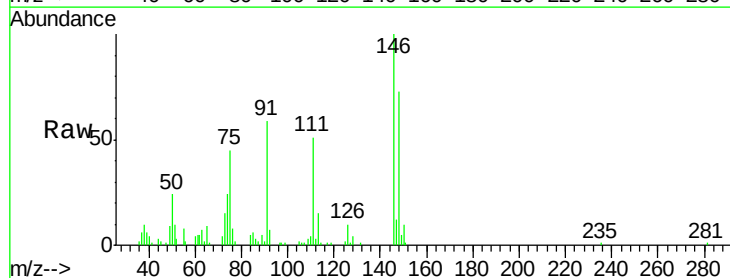
Tgt Ion: 91 Resp: 63272

Ion Ratio Lower Upper

91 100

126 18.1 14.2 21.2

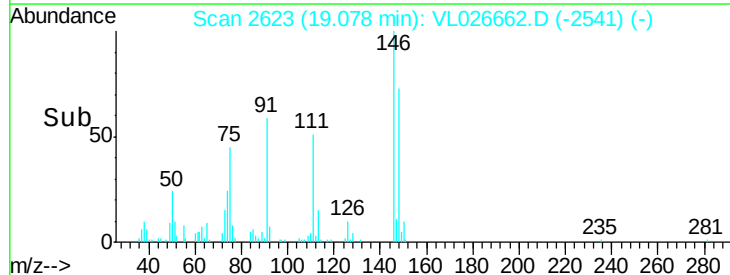
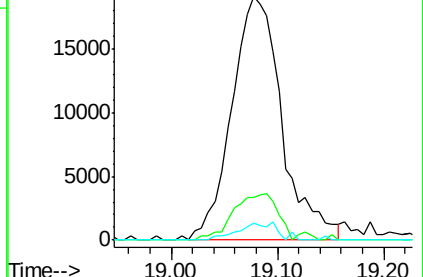
128 5.5 4.5 6.7

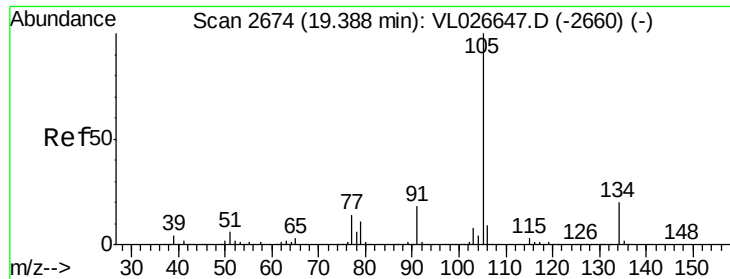


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 0.40 ppbv

RT: 19.38 min Scan# 2673

Delta R.T. -0.01 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Instrument :

MSVOA_L

ClientSampleId :

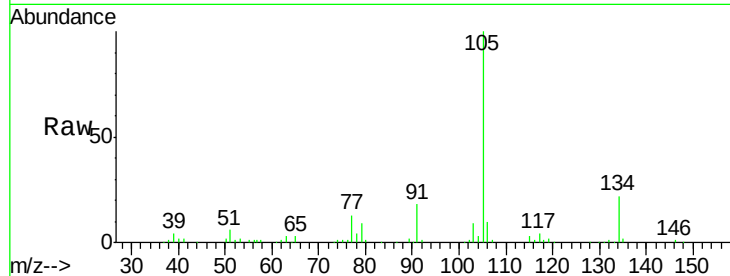
MDL-AIR-4

Tot Ion:105 Resp: 326455

Ion Ratio Lower Upper

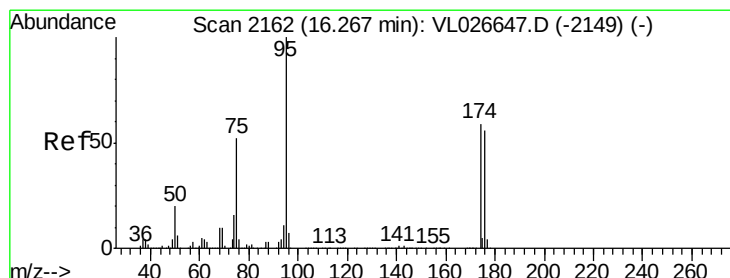
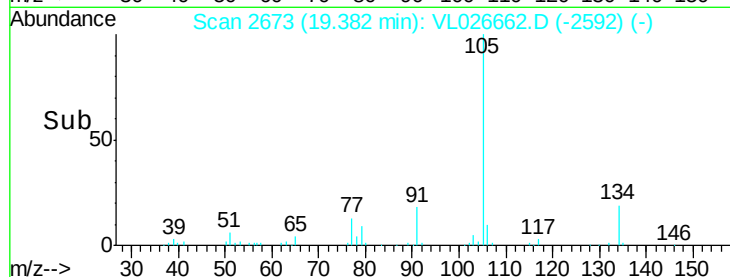
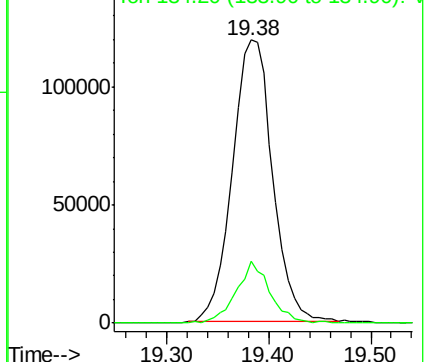
105 100

134 18.5 14.9 22.3



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.43 ppbv

RT: 16.26 min Scan# 2161

Delta R.T. -0.01 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

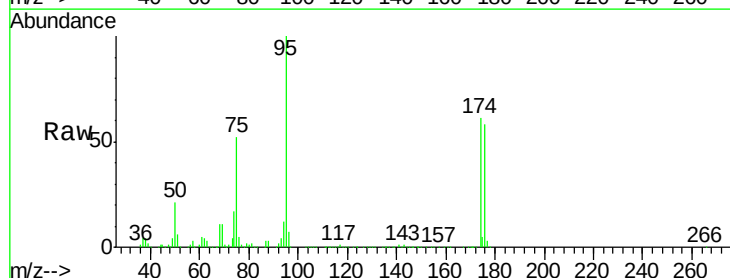
Tgt Ion: 95 Resp: 2396735

Ion Ratio Lower Upper

95 100

174 61.0 47.8 71.8

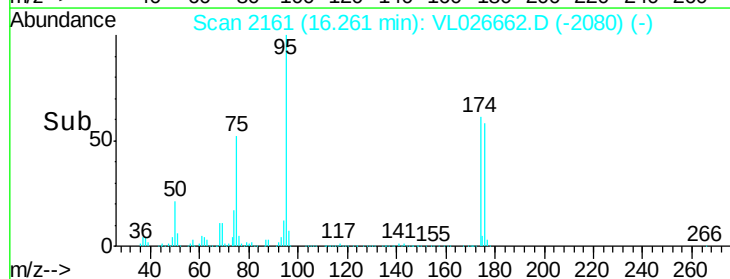
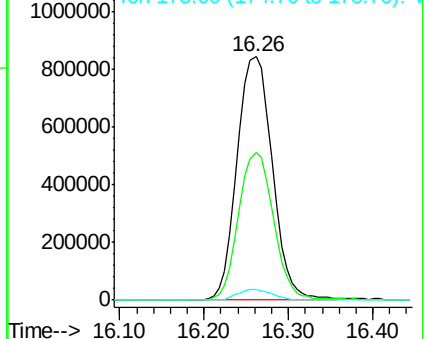
175 4.4 3.6 5.4

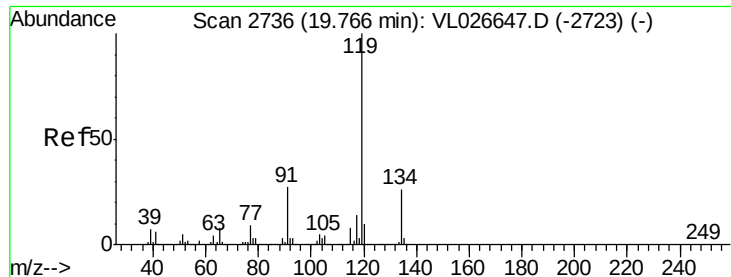


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 0.36 ppbv

RT: 19.76 min Scan# 2735

Delta R.T. -0.01 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-4

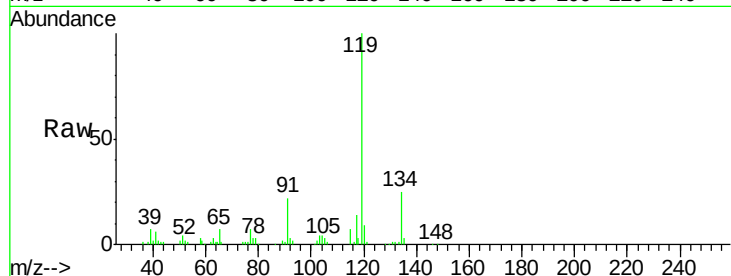
Tot Ion: 119 Resp: 224622

Ion Ratio Lower Upper

119 100

134 26.9 20.6 31.0

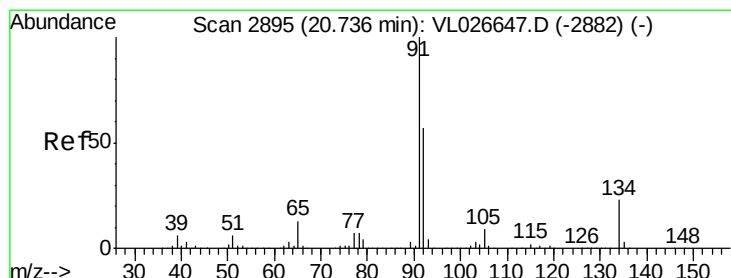
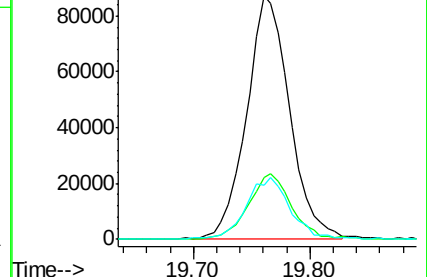
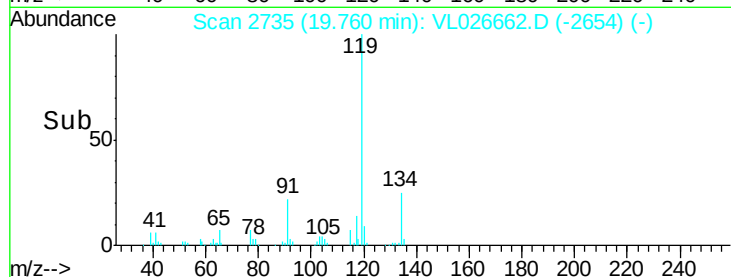
91 26.2 21.7 32.5



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 0.34 ppbv

RT: 20.74 min Scan# 2895

Delta R.T. -0.00 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

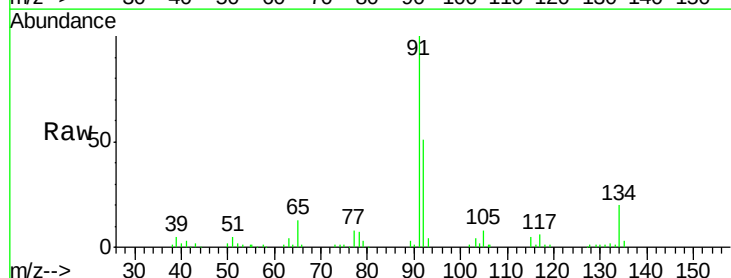
Tgt Ion: 91 Resp: 220603

Ion Ratio Lower Upper

91 100

92 53.8 45.0 67.4

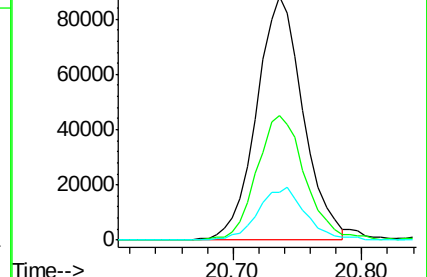
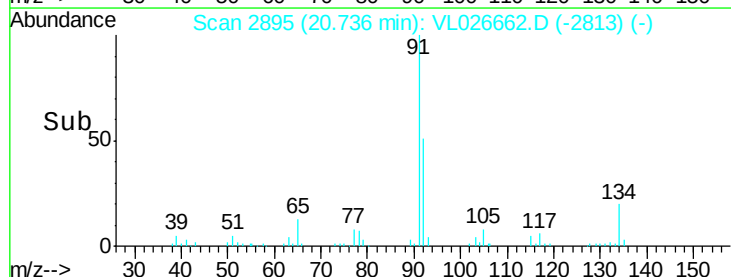
134 22.0 18.2 27.2

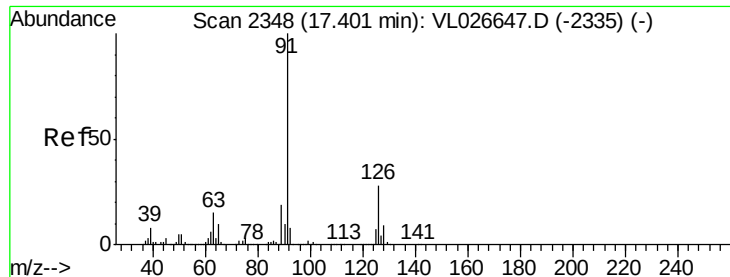


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 0.33 ppbv

RT: 17.40 min Scan# 2348

Delta R.T. -0.00 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Instrument :

MSVOA_L

ClientSampleId :

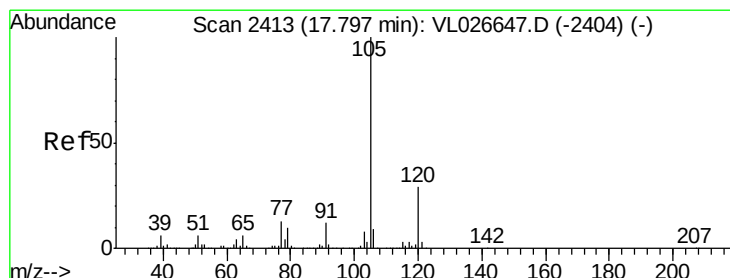
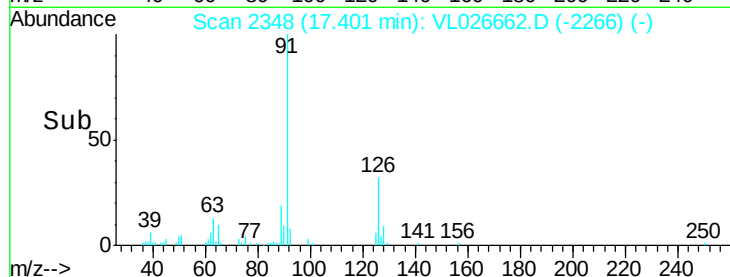
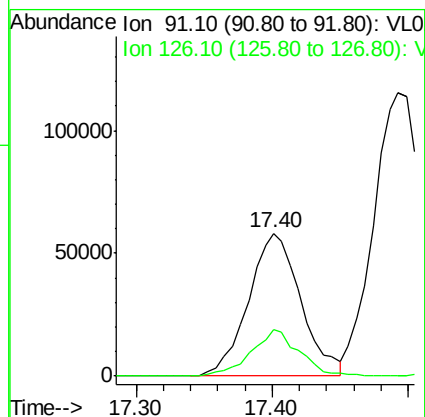
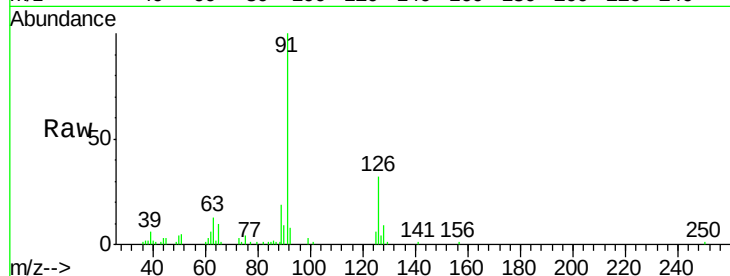
MDL-AIR-4

Tot Ion: 91 Resp: 156092

Ion Ratio Lower Upper

91 100

126 30.5 11.4 45.8



#72

4-Ethyltoluene

Concen: 0.35 ppbv

RT: 17.80 min Scan# 2413

Delta R.T. -0.00 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Tgt Ion: 105 Resp: 181016

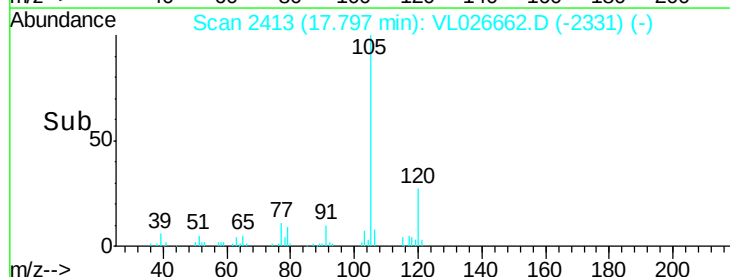
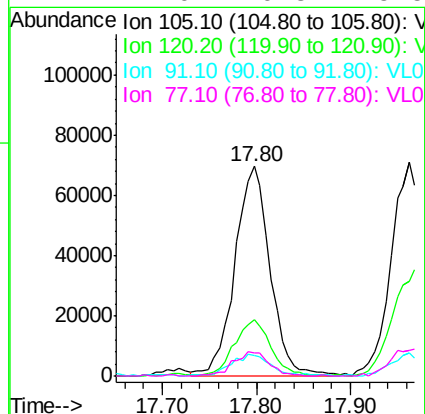
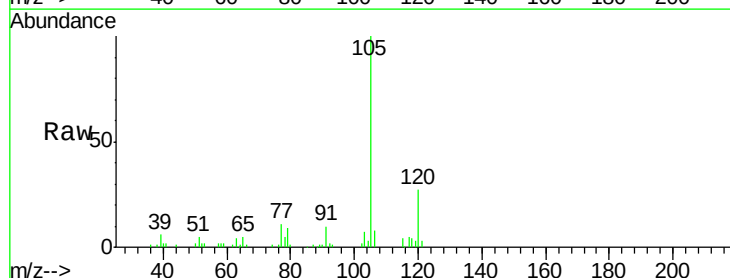
Ion Ratio Lower Upper

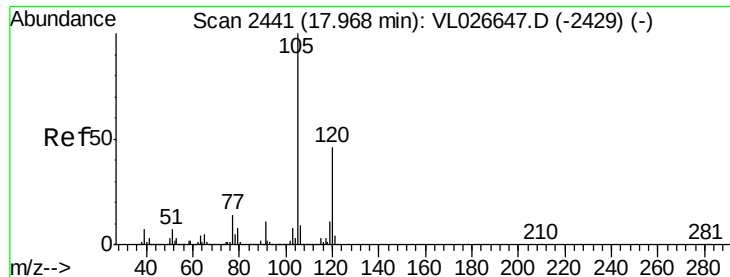
105 100

120 28.3 23.7 35.5

91 12.6 9.7 14.5

77 12.0 10.3 15.5





#73

1,3,5-Trimethylbenzene

Concen: 0.38 ppbv

RT: 17.96 min Scan# 2440

Delta R.T. -0.01 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Instrument :

MSVOA_L

ClientSampleId :

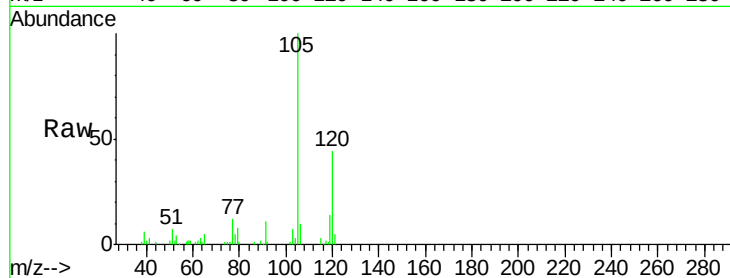
MDL-AIR-4

Tot Ion:105 Resp: 184565

Ion Ratio Lower Upper

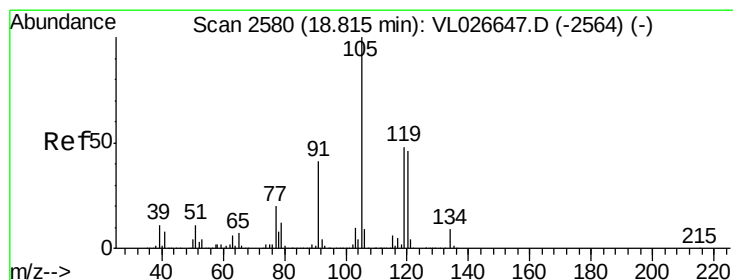
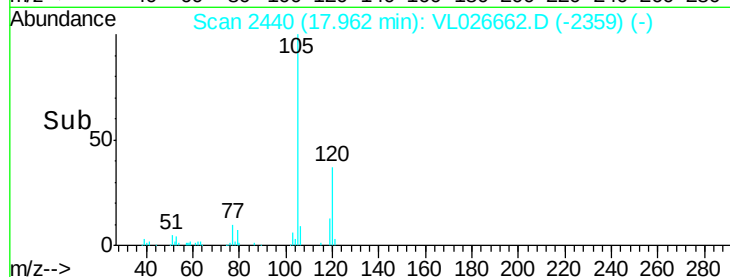
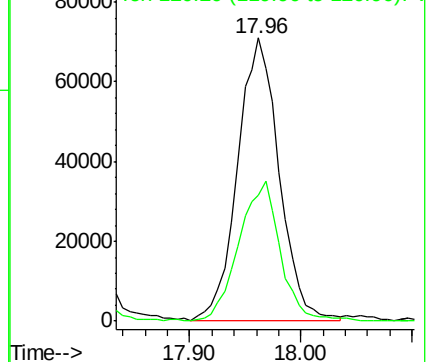
105 100

120 44.4 36.6 54.8



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: 0.43 ppbv

RT: 18.80 min Scan# 2578

Delta R.T. -0.01 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Tgt Ion:105 Resp: 222674

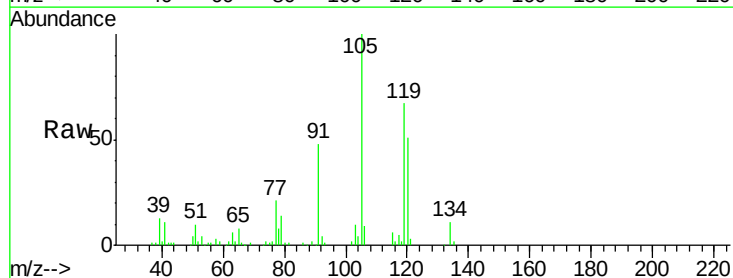
Ion Ratio Lower Upper

105 100

120 50.8 36.6 55.0

91 46.2 32.5 48.7

77 20.0 15.7 23.5

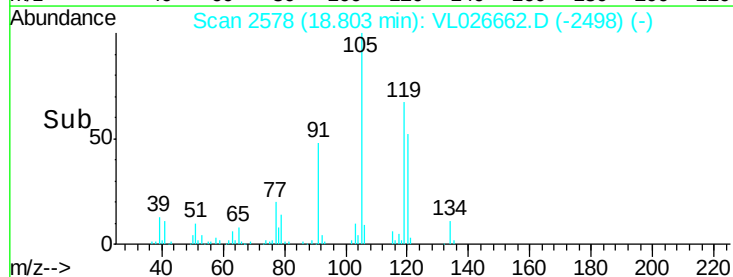
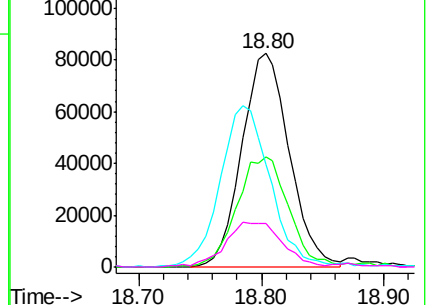


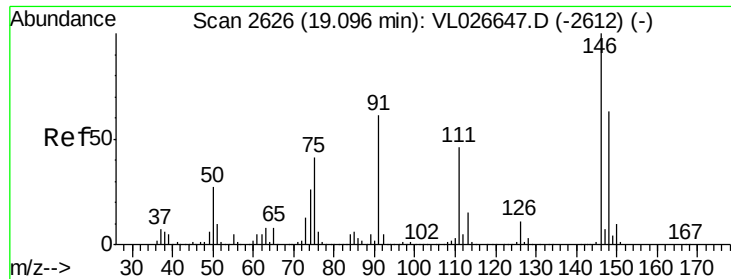
Abundance Ion 105.10 (104.80 to 105.80): V

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

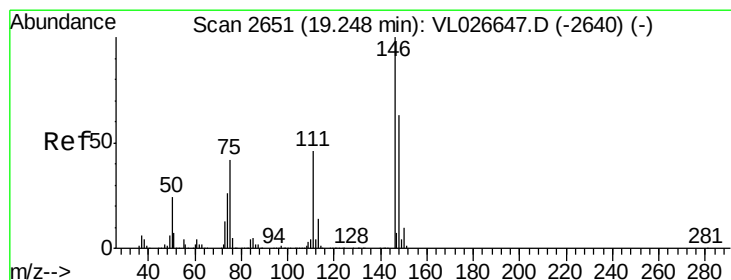
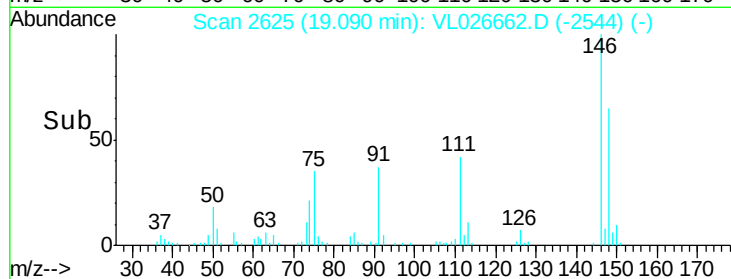
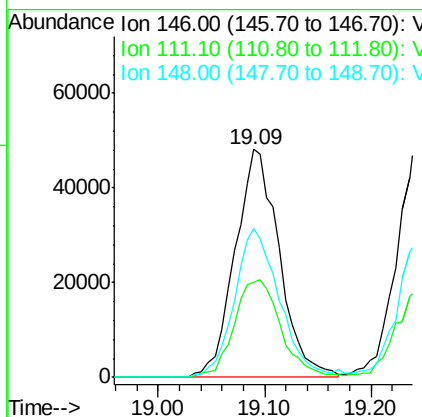
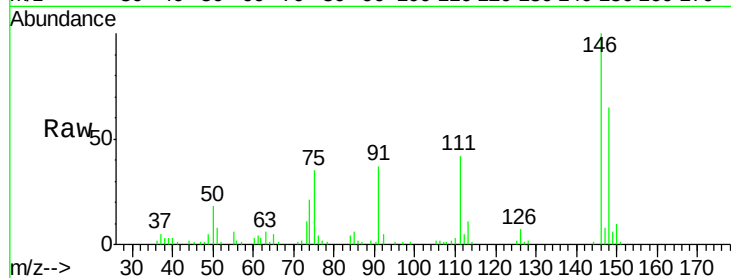




#75
 1,3-Dichlorobenzene
 Concen: 0.44 ppbv
 RT: 19.09 min Scan# 2625
 Delta R.T. -0.01 min
 Lab File: VL026662.D
 Acq: 9 Jan 2016 5:47

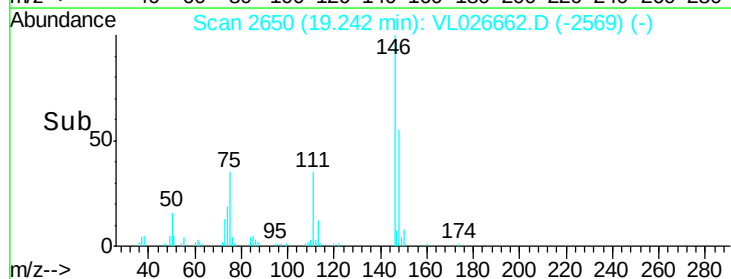
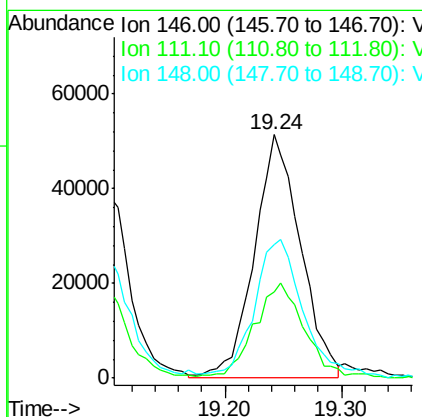
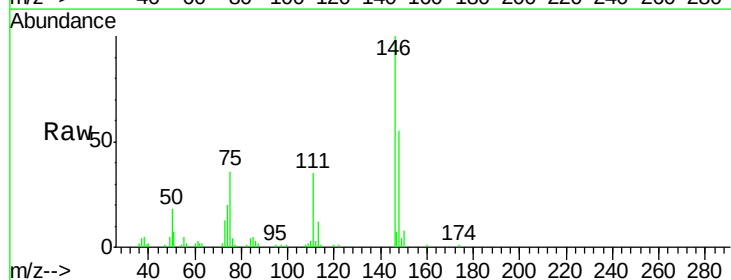
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-4

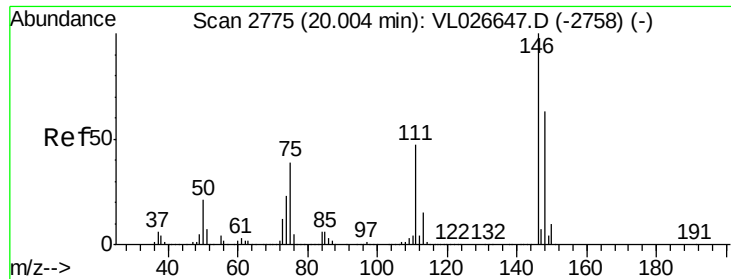
Tot Ion:146 Resp: 140087
 Ion Ratio Lower Upper
 146 100
 111 45.3 22.9 68.5
 148 66.7 31.6 95.0



#76
 1,4-Dichlorobenzene
 Concen: 0.43 ppbv
 RT: 19.24 min Scan# 2650
 Delta R.T. -0.01 min
 Lab File: VL026662.D
 Acq: 9 Jan 2016 5:47

Tgt Ion:146 Resp: 142000
 Ion Ratio Lower Upper
 146 100
 111 42.3 22.3 66.8
 148 60.1 31.9 95.9





#77

1,2-Dichlorobenzene

Concen: 0.22 ppbv

RT: 19.99 min Scan# 2773

Delta R.T. -0.01 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-4

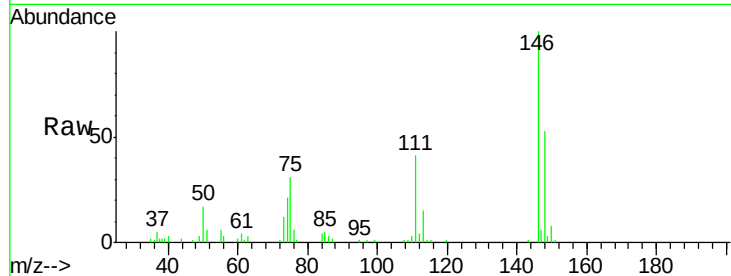
Tot Ion:146 Resp: 71003

Ion Ratio Lower Upper

146 100

111 0.0 23.7 71.1#

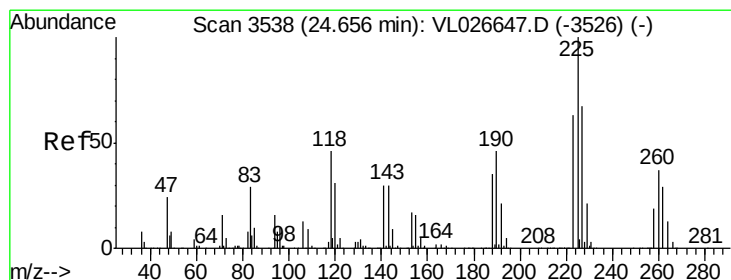
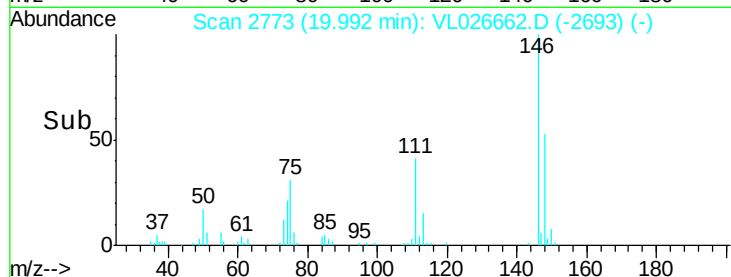
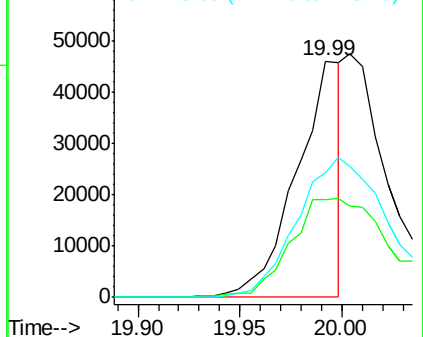
148 0.0 31.1 93.5#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 0.27 ppbv

RT: 24.64 min Scan# 3536

Delta R.T. -0.01 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

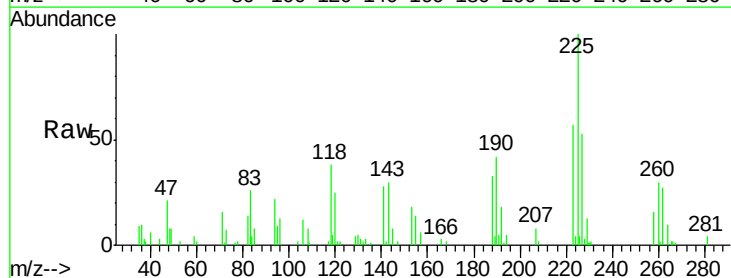
Tgt Ion:225 Resp: 36155

Ion Ratio Lower Upper

225 100

223 92.9 50.1 75.1#

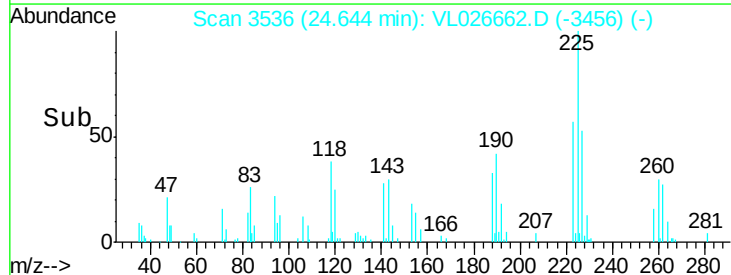
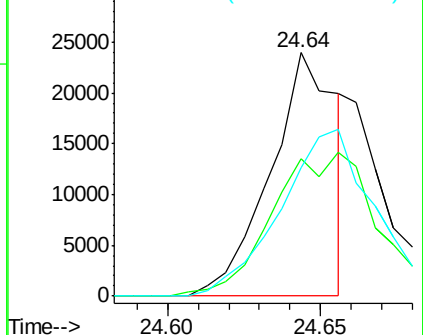
227 96.9 51.1 76.7#

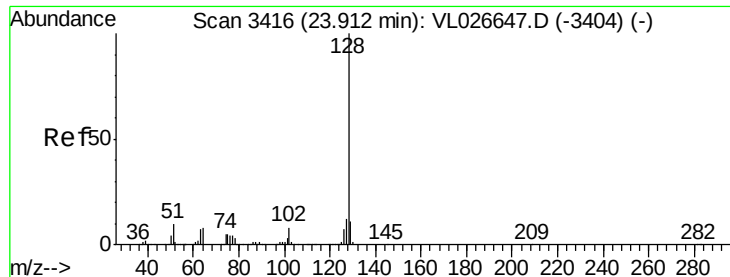


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 0.25 ppbv

RT: 23.92 min Scan# 3418

Delta R.T. 0.01 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-4

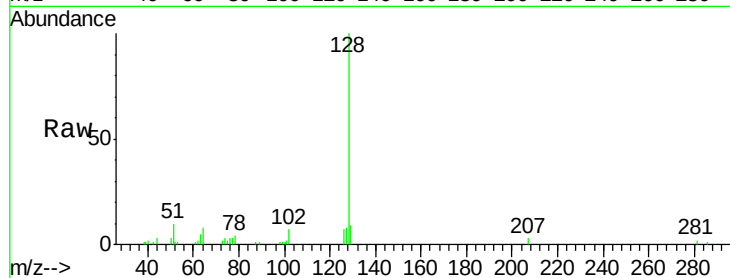
Tot Ion:128 Resp: 87621

Ion Ratio Lower Upper

128 100

127 8.5 9.8 14.8#

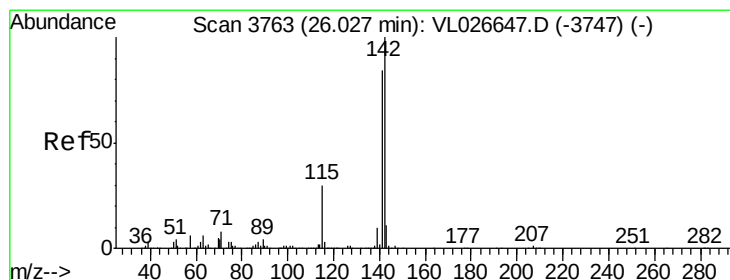
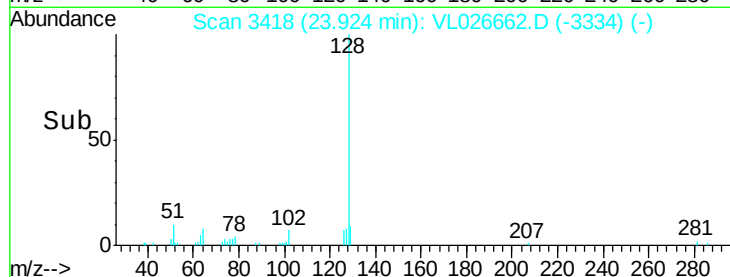
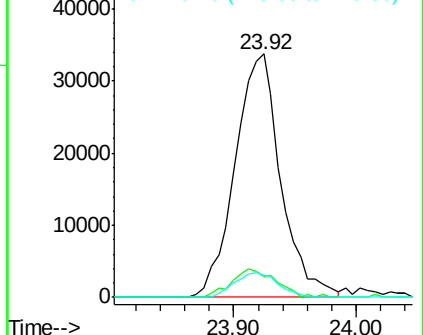
129 8.9 8.9 13.3



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: 0.32 ppbv

RT: 26.03 min Scan# 3763

Delta R.T. -0.00 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

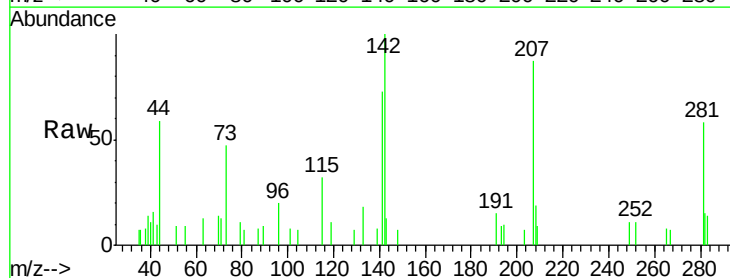
Tgt Ion:142 Resp: 17252

Ion Ratio Lower Upper

142 100

141 88.8 67.0 100.6

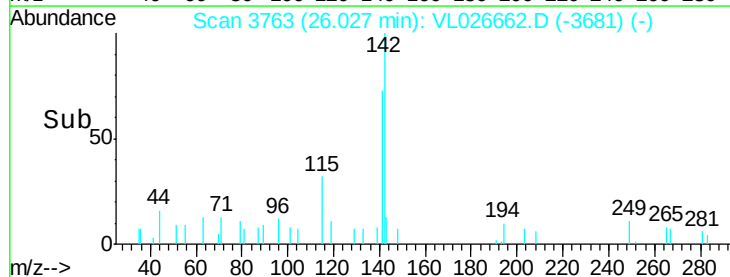
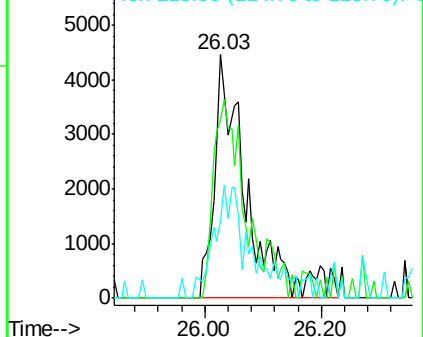
115 58.1 24.7 37.1#

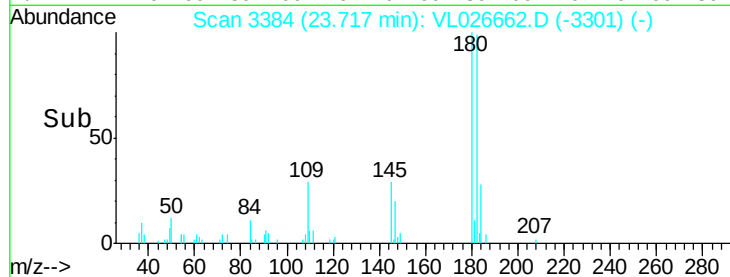
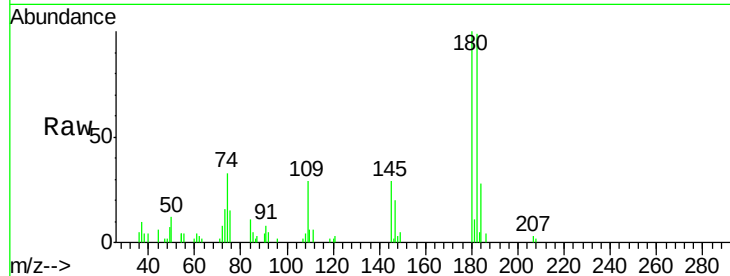
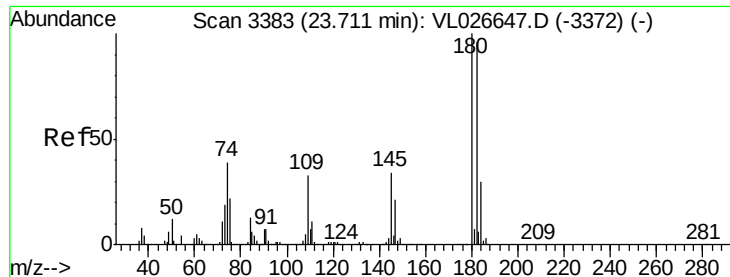


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 0.32 ppbv

RT: 23.72 min Scan# 3384

Delta R.T. 0.01 min

Lab File: VL026662.D

Acq: 9 Jan 2016 5:47

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-4

Tot Ion:180 Resp: 50353

Ion Ratio Lower Upper

180 100

182 96.1 75.4 113.0

184 30.6 24.1 36.1

