

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL010816\
 Data File : VL026660.D
 Acq On : 9 Jan 2016 4:32
 Operator : SY/AP
 Sample : H1002-16
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-2

Quant Time: Jan 12 02:02:17 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	678244	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.31	114	2179985	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.72	117	2952696	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.26	95	2447394	10.40	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.00%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.64	85	92116	0.51	ppbv	98
3) Chlorodifluoromethane	3.56	51	42606	0.47	ppbv	98
4) Chloromethane	3.75	50	18664	0.42	ppbv	91
5) Vinyl Chloride	3.88	62	20771	0.39	ppbv #	88
6) Bromomethane	4.14	94	16474	0.43	ppbv	99
7) Chloroethane	4.24	64	10420	0.48	ppbv #	85
8) Dichlorotetrafluoroethane	3.80	85	67681	0.48	ppbv	99
9) Propene	3.59	41	12761	0.39	ppbv	83
10) Heptane	9.34	43	41642	0.34	ppbv	90
11) Trichlorofluoromethane	4.68	101	97516	0.52	ppbv	87
12) 1,1,2-Trichlorotrifluoroet	5.29	101	58257	0.51	ppbv	95
13) Ethanol	4.33	45	597	0.10	ppbv #	34
14) Bromoethene	4.44	108	17163	0.41	ppbv #	92
15) Acetone	4.62	43	65557	0.59	ppbv #	56
16) 1,3-Butadiene	3.96	39	16702	0.37	ppbv	100
17) tert-Butyl alcohol	5.15	59	28540	0.34	ppbv	97
18) 1,1-Dichloroethene	5.07	96	20189	0.42	ppbv	95
19) Isopropyl Alcohol	4.78	45	16878	0.37	ppbv #	1
20) Methylene Chloride	5.14	84	24568	0.54	ppbv	95
21) Allyl Chloride	5.22	41	26771	0.39	ppbv #	68
22) trans-1,2-Dichloroethene	5.76	96	23638	0.43	ppbv	92
23) Vinyl Acetate	5.98	43	59482	0.35	ppbv #	95
24) 1,1-Dichloroethane	5.89	63	55812	0.45	ppbv	99
25) Ethyl Acetate	6.68	43	60031	0.35	ppbv #	96
26) Hexane	6.65	57	32143	0.36	ppbv	94
27) Carbon Disulfide	5.38	76	57821	0.44	ppbv #	87
28) Methyl tert-Butyl Ether	5.96	73	63582	0.36	ppbv	100
29) Chloroform	6.73	83	76026	0.47	ppbv	92
30) Cyclohexane	8.27	84	33631	0.38	ppbv #	29
31) cis-1,2-Dichloroethene	6.50	61	34234	0.38	ppbv	92
32) 1,1,1-Trichloroethane	7.58	97	76041	0.42	ppbv	98
34) 2-Butanone	6.21	43	41273	0.36	ppbv	91
35) Carbon Tetrachloride	8.13	117	76610	0.40	ppbv	97
36) Benzene	8.00	78	75815	0.34	ppbv #	93
37) 1,2-Dichloroethane	7.35	62	62875	0.41	ppbv	99
38) Trichloroethene	9.05	130	35952	0.36	ppbv	94
39) 1,2-Dichloropropane	8.80	63	31188	0.40	ppbv	91
40) 1,4-Dioxane	9.16	88	1497	0.08	ppbv #	1
41) Tetrahydrofuran	7.15	42	16328	0.28	ppbv	97
42) Bromodichloromethane	9.00	83	76852	0.39	ppbv #	97
43) Methyl Methacrylate	9.25	69	24219	0.30	ppbv	91

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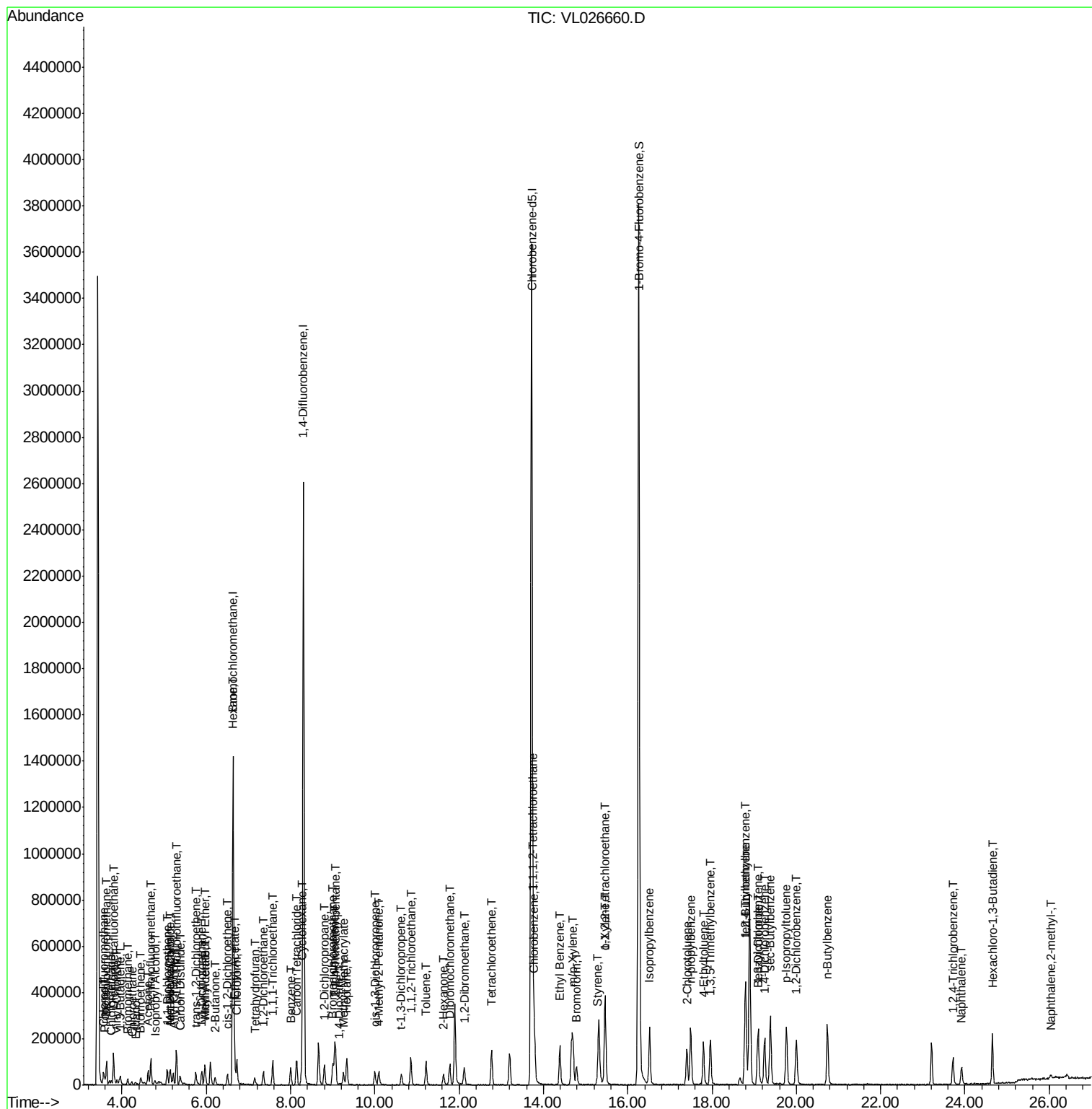
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.06	57	119761	0.33	ppbv	97
45) t-1,3-Dichloropropene	10.63	75	36123	0.27	ppbv	90
46) cis-1,3-Dichloropropene	10.00	75	42157	0.28	ppbv #	84
47) 1,1,2-Trichloroethane	10.85	97	44944	0.41	ppbv	94
48) Dibromochloromethane	11.78	129	66972	0.40	ppbv	97
49) Bromoform	14.79	173	52992	0.39	ppbv	97
50) 4-Methyl-2-Pentanone	10.09	43	48033	0.29	ppbv	94
51) 2-Hexanone	11.63	43	37307	0.25	ppbv #	99
52) Tetrachloroethene	12.77	164	44180	0.39	ppbv	97
53) Toluene	11.21	91	96036	0.30	ppbv	98
54) 1,2-Dibromoethane	12.12	107	71150	0.41	ppbv	81
56) 1,1,1,2-Tetrachloroethane	13.76	131	58577	0.43	ppbv #	1
57) Chlorobenzene	13.79	112	139959	0.46	ppbv #	87
58) Ethyl Benzene	14.39	91	173064	0.33	ppbv	95
59) m/p-Xylene	14.69	91	187807	0.43	ppbv #	41
60) o-Xylene	15.47	91	196539	0.42	ppbv	93
61) Styrene	15.29	104	37271	0.20	ppbv #	42
62) Isopropylbenzene	16.52	105	238599	0.38	ppbv	97
63) 1,1,2,2-Tetrachloroethane	15.46	83	152734	0.44	ppbv	100
64) n-propylbenzene	17.49	120	63422	0.38	ppbv	88
65) tert-Butylbenzene	18.78	119	235124	0.41	ppbv	94
66) Benzyl Chloride	19.08	91	66212	0.33	ppbv	97
67) sec-Butylbenzene	19.38	105	345919	0.41	ppbv	96
69) p-Isopropyltoluene	19.77	119	238119	0.37	ppbv	98
70) n-Butylbenzene	20.74	91	229520	0.34	ppbv	96
71) 2-Chlorotoluene	17.39	91	155132	0.32	ppbv	98
72) 4-Ethyltoluene	17.80	105	175770	0.33	ppbv #	97
73) 1,3,5-Trimethylbenzene	17.96	105	183766	0.37	ppbv	92
74) 1,2,4-Trimethylbenzene	18.80	105	227187	0.43	ppbv #	90
75) 1,3-Dichlorobenzene	19.10	146	149581	0.46	ppbv	96
76) 1,4-Dichlorobenzene	19.25	146	139175	0.42	ppbv	98
77) 1,2-Dichlorobenzene	20.00	146	142432	0.43	ppbv	97
78) Hexachloro-1,3-Butadiene	24.65	225	54969	0.41	ppbv	96
79) Naphthalene	23.92	128	88882	0.25	ppbv #	92
80) Naphthalene, 2-methyl-	26.04	142	17487	0.32	ppbv #	86
81) 1,2,4-Trichlorobenzene	23.72	180	49641	0.31	ppbv	95

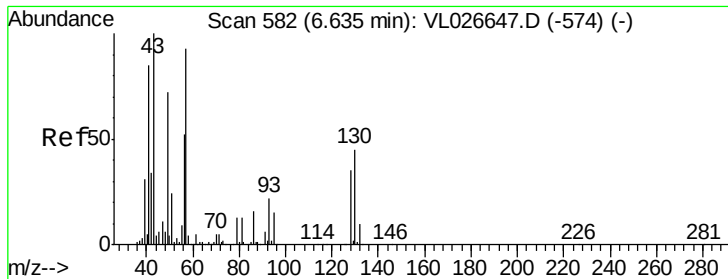
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.63 min Scan# 582

Delta R.T. -0.00 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-2

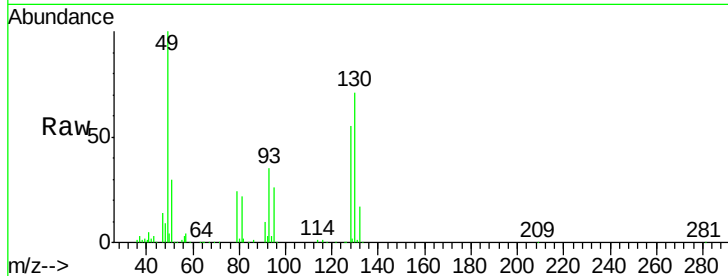
Tot Ion: 49 Resp: 678244

Ion Ratio Lower Upper

49 100

128 58.1 25.9 77.7

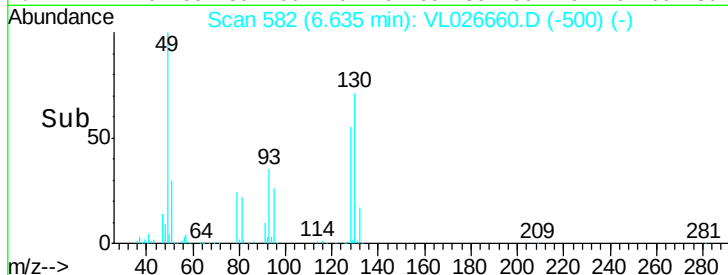
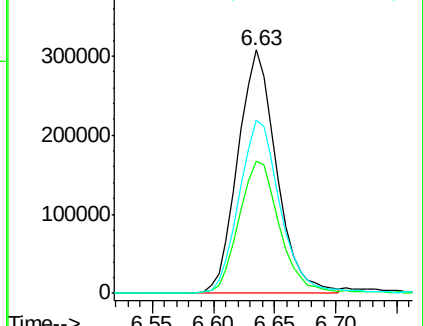
130 77.0 33.6 100.8



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: 0.51 ppbv

RT: 3.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VL026660.D

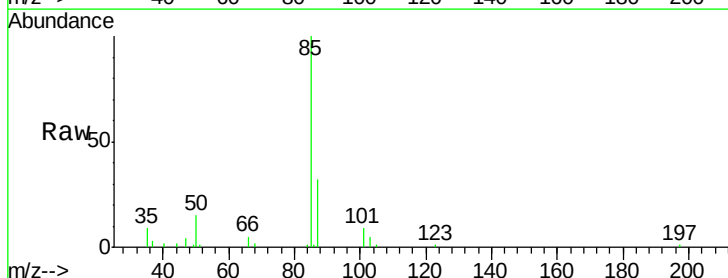
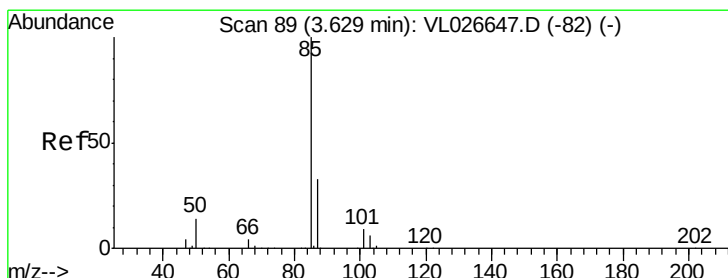
Acq: 9 Jan 2016 4:32

Tgt Ion: 85 Resp: 92116

Ion Ratio Lower Upper

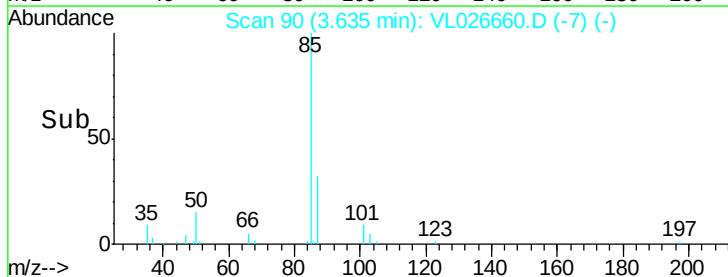
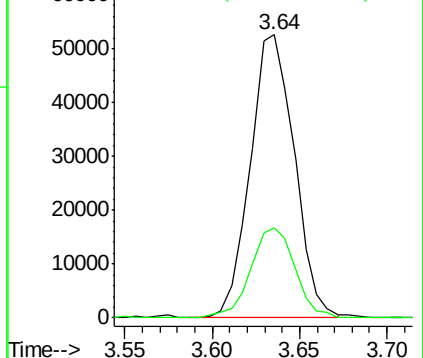
85 100

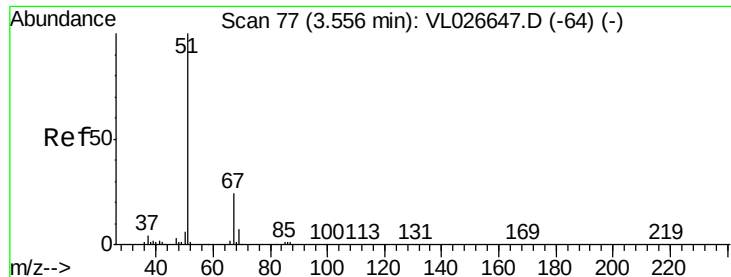
87 32.0 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.47 ppbv

RT: 3.56 min Scan# 78

Delta R.T. 0.01 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

Instrument :

MSVOA_L

ClientSampleId :

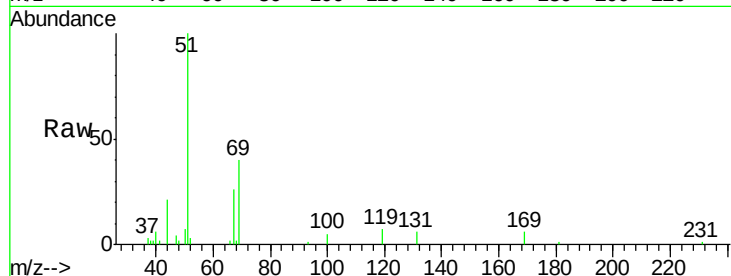
MDL-AIR-2

Tot Ion: 51 Resp: 42606

Ion Ratio Lower Upper

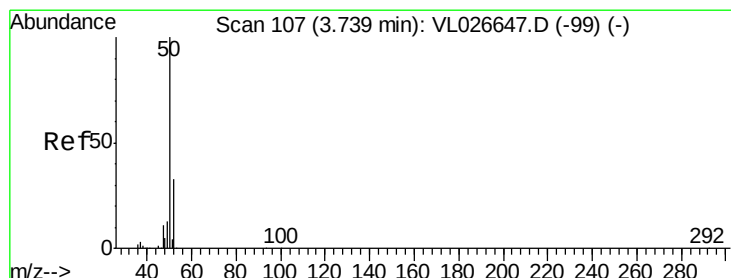
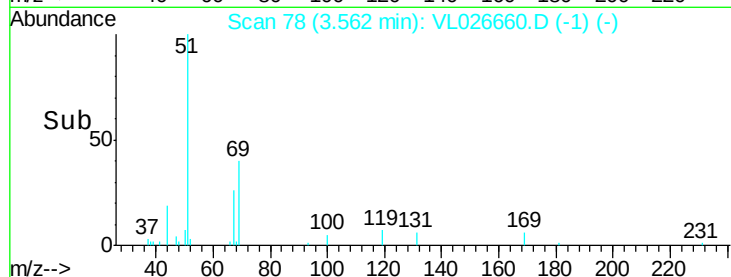
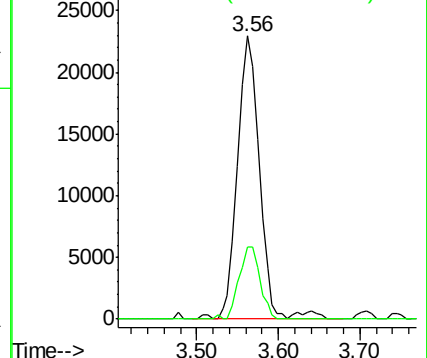
51 100

67 24.1 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: 0.42 ppbv

RT: 3.75 min Scan# 108

Delta R.T. 0.01 min

Lab File: VL026660.D

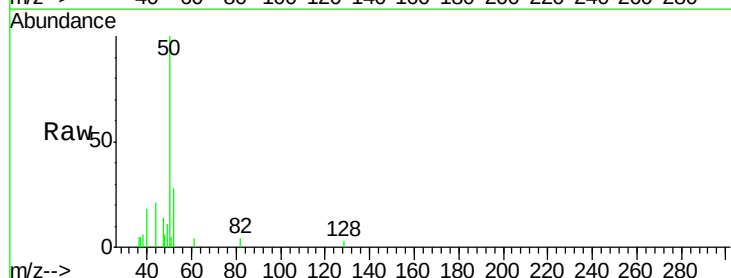
Acq: 9 Jan 2016 4:32

Tgt Ion: 50 Resp: 18664

Ion Ratio Lower Upper

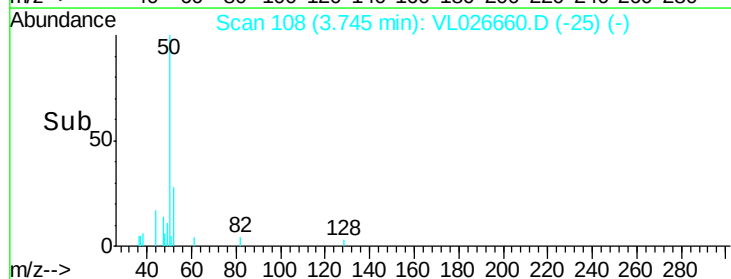
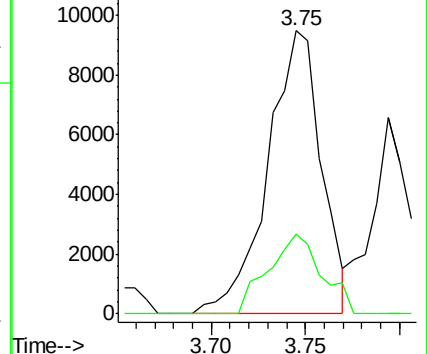
50 100

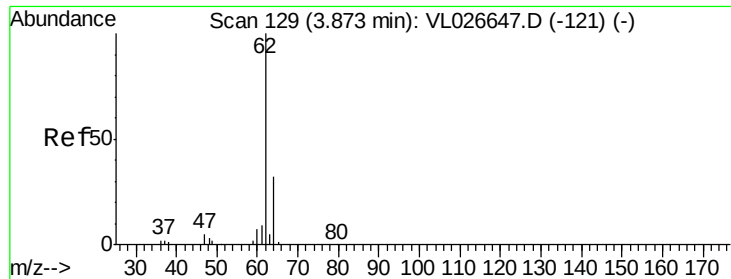
52 28.1 26.7 40.1



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: VL026660.D

Acq: 9 Jan 2016 4:32

Instrument :

MSVOA_L

ClientSampleId :

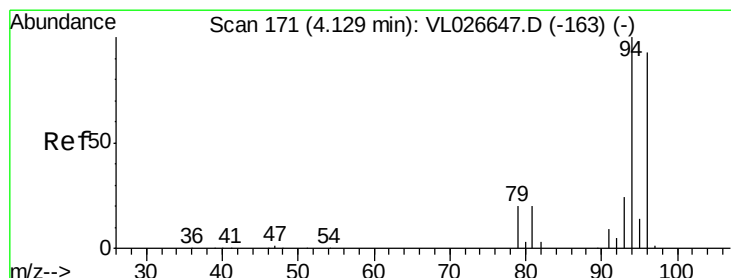
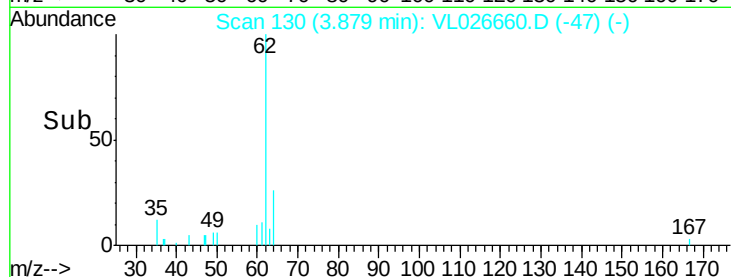
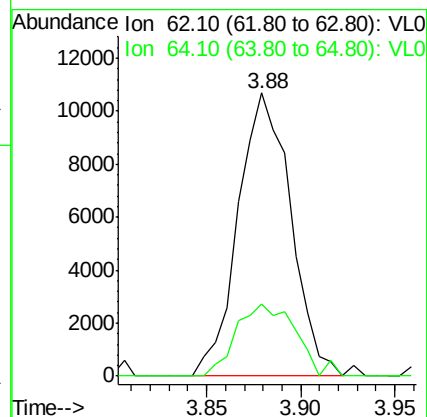
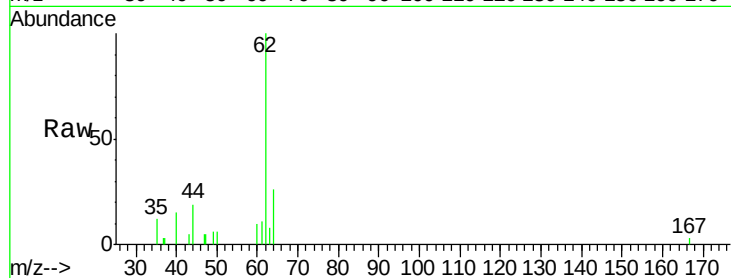
MDL-AIR-2

Tot Ion: 62 Resp: 20771

Ion Ratio Lower Upper

62 100

64 25.6 25.6 38.4#



#6

Bromomethane

Concen: 0.43 ppbv

RT: 4.14 min Scan# 173

Delta R.T. 0.01 min

Lab File: VL026660.D

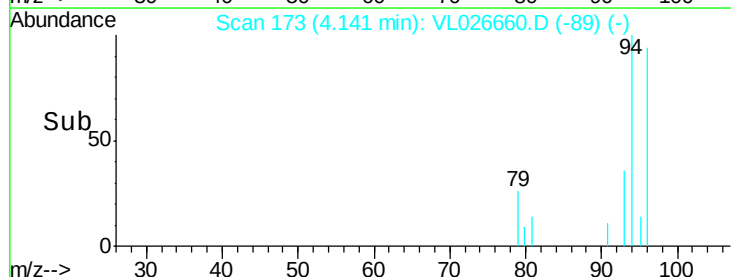
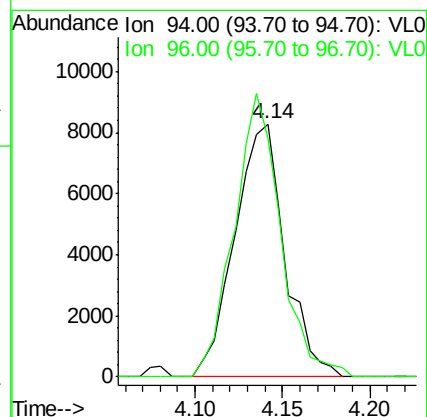
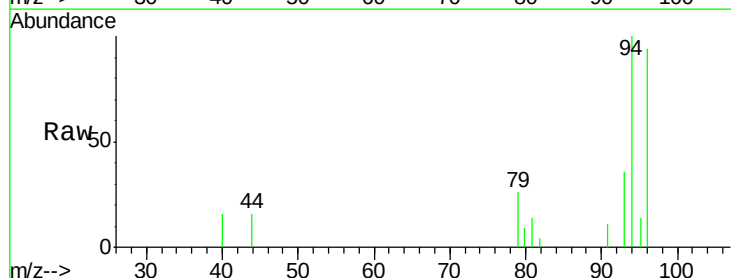
Acq: 9 Jan 2016 4:32

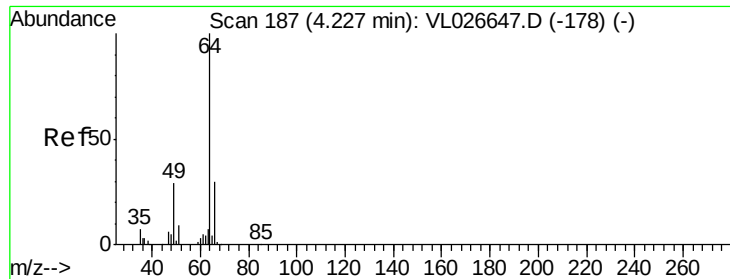
Tgt Ion: 94 Resp: 16474

Ion Ratio Lower Upper

94 100

96 94.1 74.6 112.0





#7

Chloroethane

Concen: 0.48 ppbv

RT: 4.24 min Scan# 189

Delta R.T. 0.01 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

Instrument :

MSVOA_L

ClientSampleId :

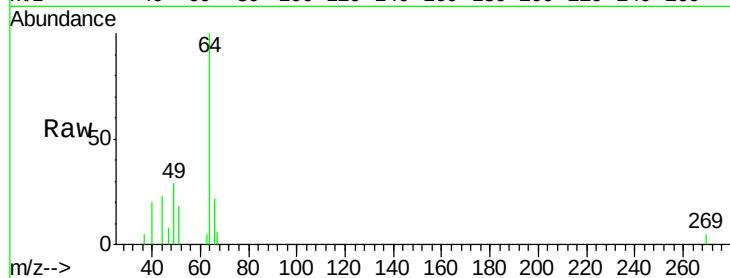
MDL-AIR-2

Tot Ion: 64 Resp: 10420

Ion Ratio Lower Upper

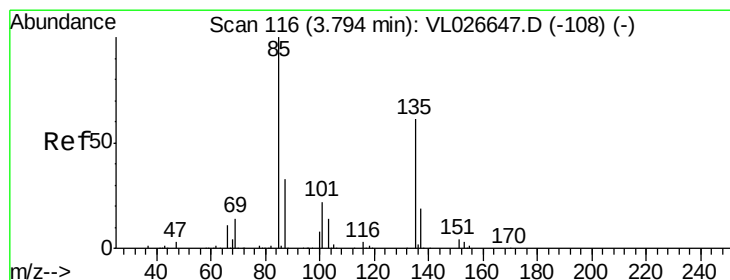
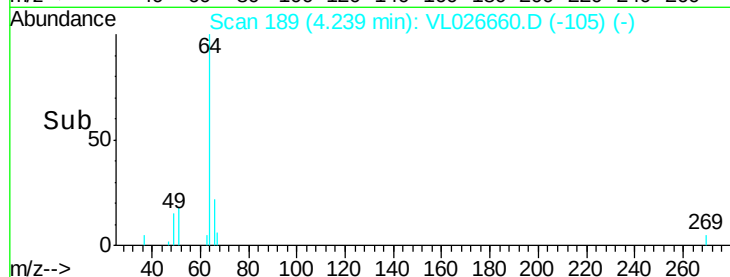
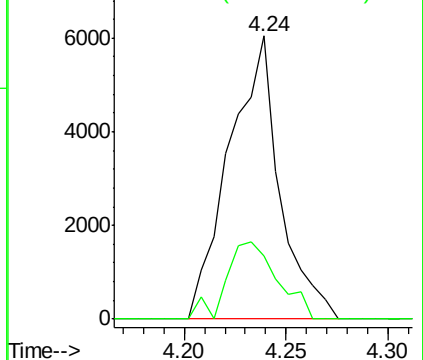
64 100

66 22.3 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: 0.48 ppbv

RT: 3.80 min Scan# 117

Delta R.T. 0.01 min

Lab File: VL026660.D

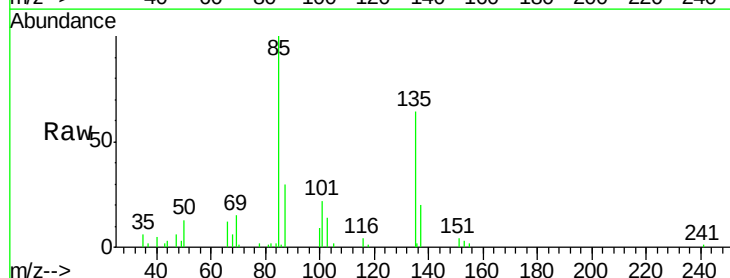
Acq: 9 Jan 2016 4:32

Tgt Ion: 85 Resp: 67681

Ion Ratio Lower Upper

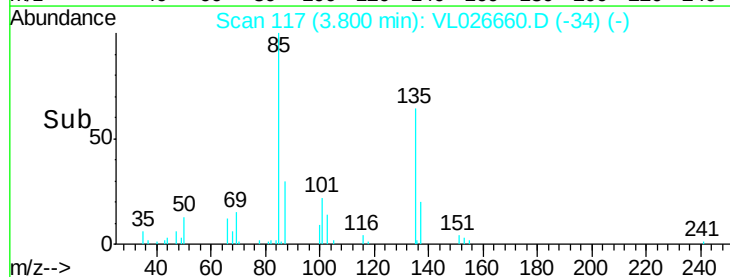
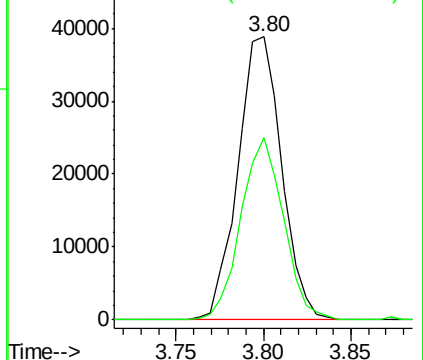
85 100

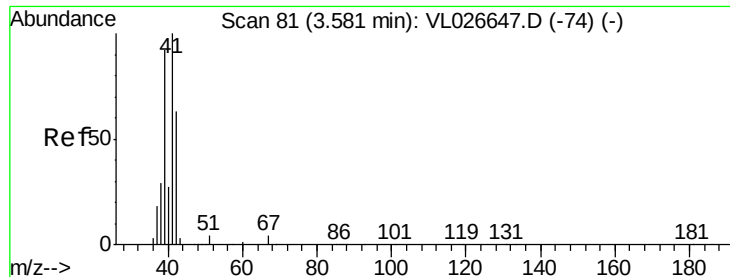
135 62.6 49.8 74.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.39 ppbv

RT: 3.59 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

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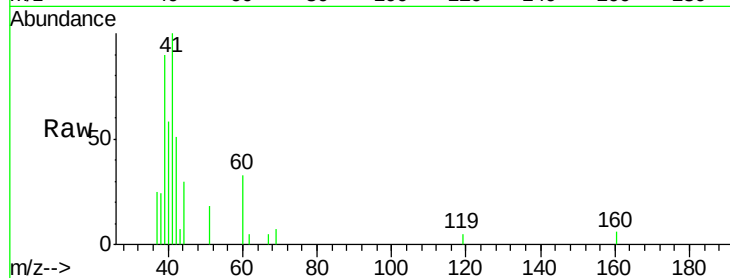
MDL-AIR-2

Tot Ion: 41 Resp: 12761

Ion Ratio Lower Upper

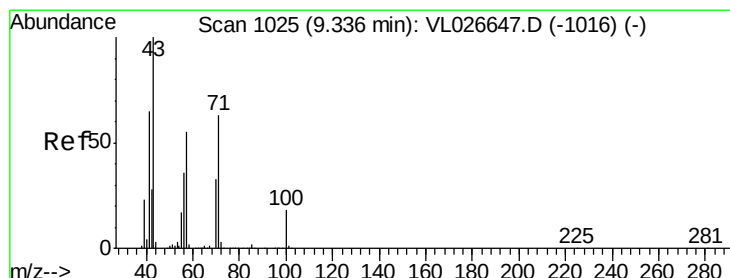
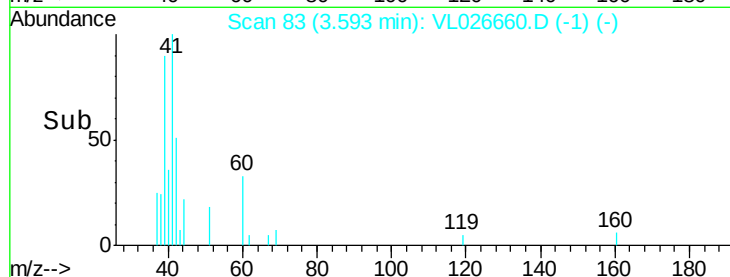
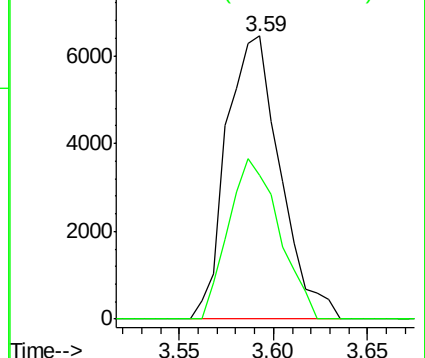
41 100

42 53.7 53.6 80.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.34 ppbv

RT: 9.34 min Scan# 1025

Delta R.T. -0.00 min

Lab File: VL026660.D

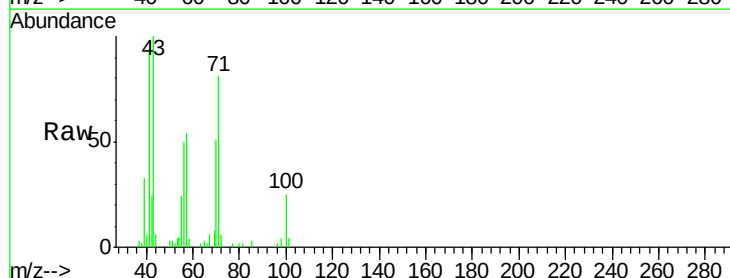
Acq: 9 Jan 2016 4:32

Tgt Ion: 43 Resp: 41642

Ion Ratio Lower Upper

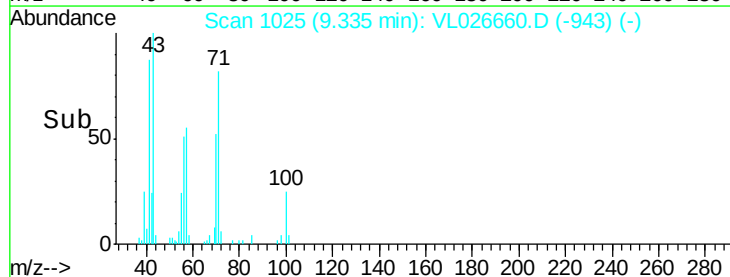
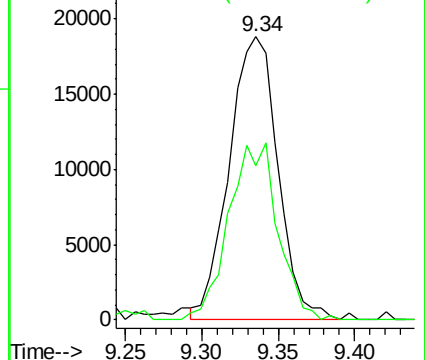
43 100

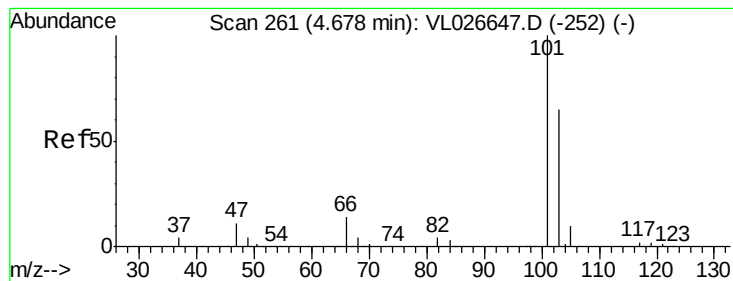
57 64.4 45.8 68.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 0.52 ppbv

RT: 4.68 min Scan# 261

Delta R.T. -0.00 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

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MSVOA_L

ClientSampleId :

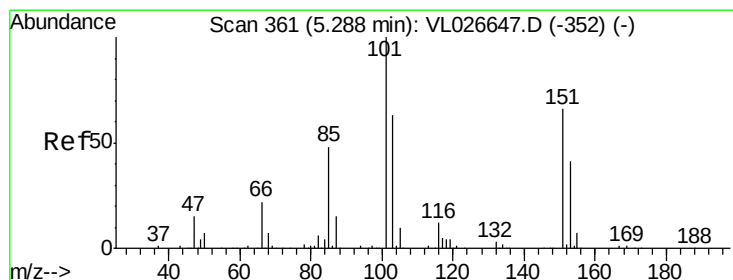
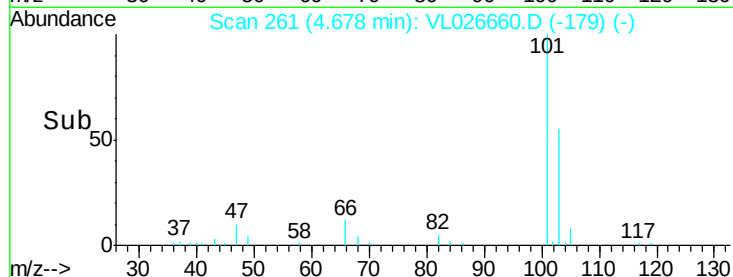
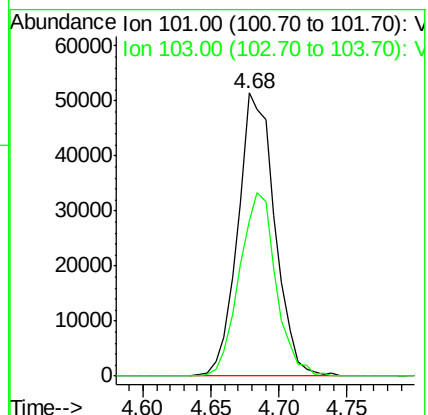
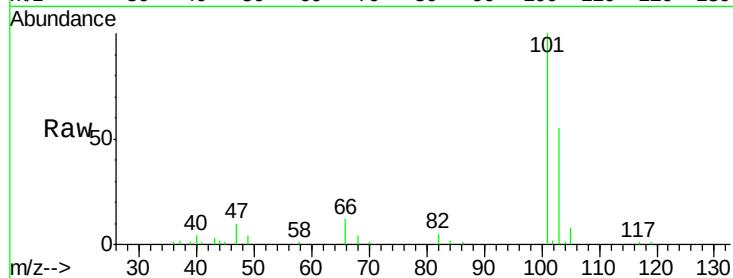
MDL-AIR-2

Tot Ion:101 Resp: 97516

Ion Ratio Lower Upper

101 100

103 54.7 51.7 77.5



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.51 ppbv

RT: 5.29 min Scan# 362

Delta R.T. 0.01 min

Lab File: VL026660.D

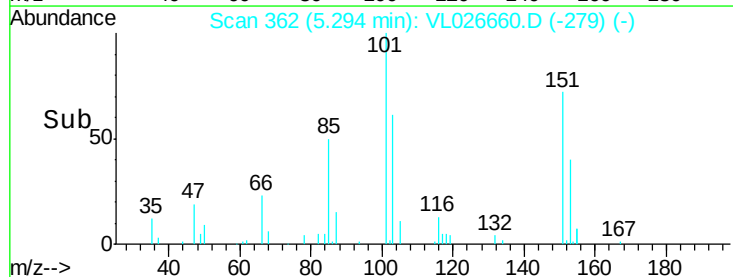
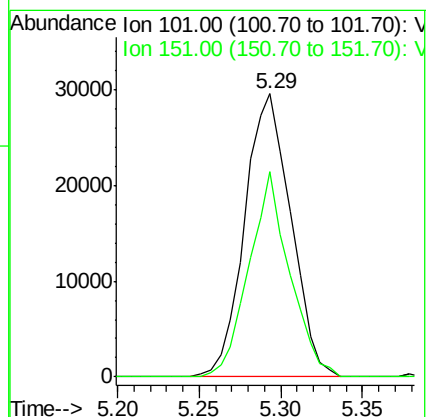
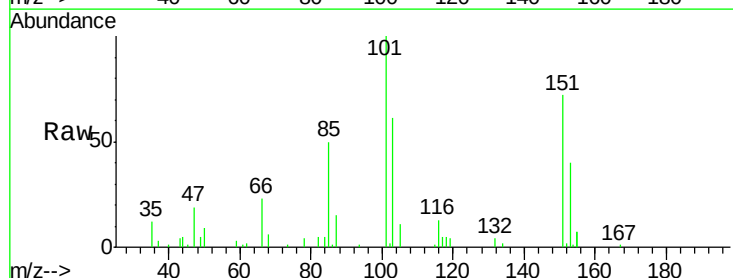
Acq: 9 Jan 2016 4:32

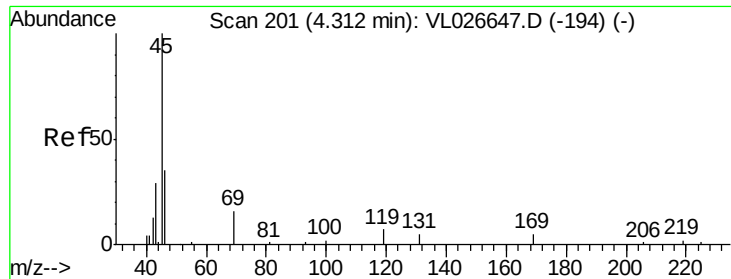
Tgt Ion:101 Resp: 58257

Ion Ratio Lower Upper

101 100

151 63.9 54.2 81.4





#13

Ethanol

Concen: 0.10 ppbv

RT: 4.33 min Scan# 204

Delta R.T. 0.02 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

Instrument :

MSVOA_L

ClientSampleId :

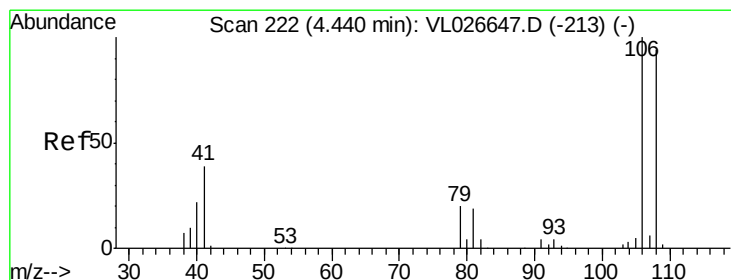
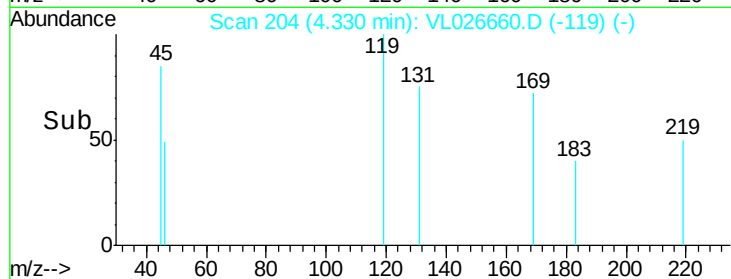
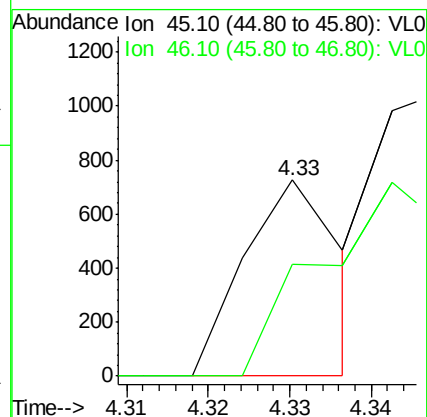
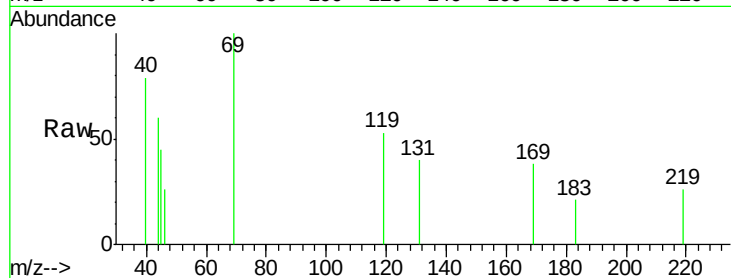
MDL-AIR-2

Tot Ion: 45 Resp: 597

Ion Ratio Lower Upper

45 100

46 0.0 16.7 66.7#



#14

Bromoethene

Concen: 0.41 ppbv

RT: 4.44 min Scan# 222

Delta R.T. -0.00 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

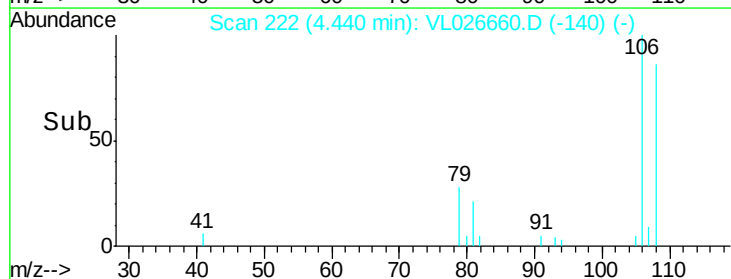
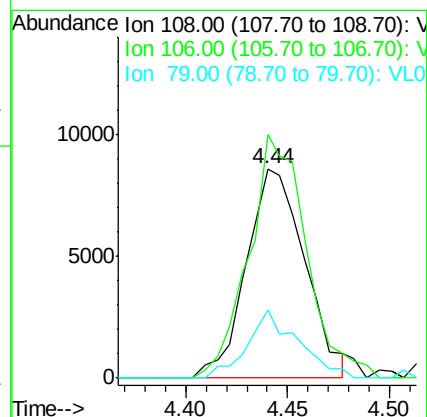
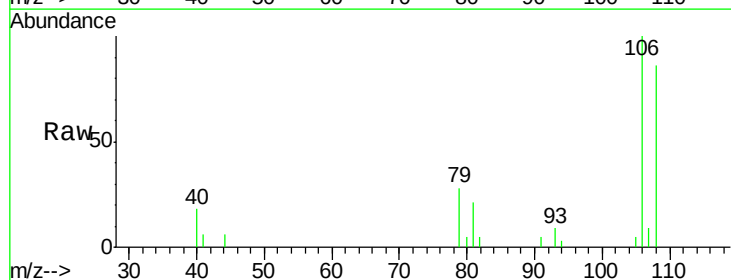
Tgt Ion: 108 Resp: 17163

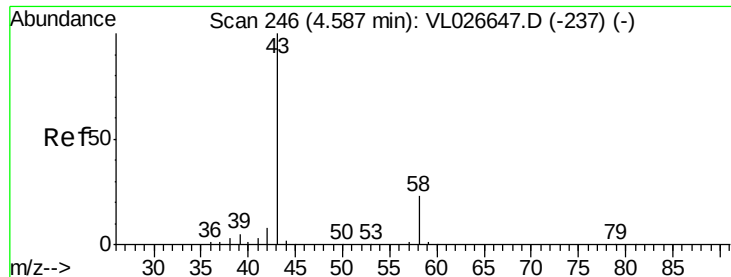
Ion Ratio Lower Upper

108 100

106 114.3 86.4 129.6

79 28.9 17.2 25.8#





#15

Acetone

Concen: 0.59 ppbv

RT: 4.62 min Scan# 251

Delta R.T. 0.03 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

Instrument :

MSVOA_L

ClientSampleId :

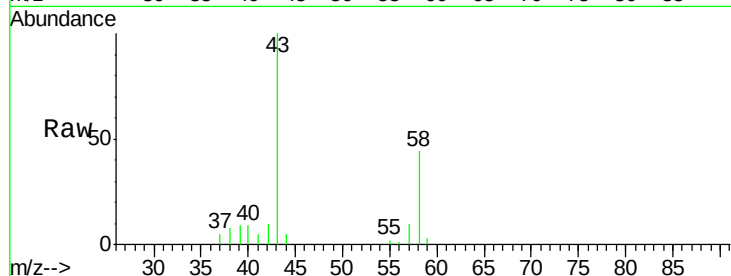
MDL-AIR-2

Tot Ion: 43 Resp: 65557

Ion Ratio Lower Upper

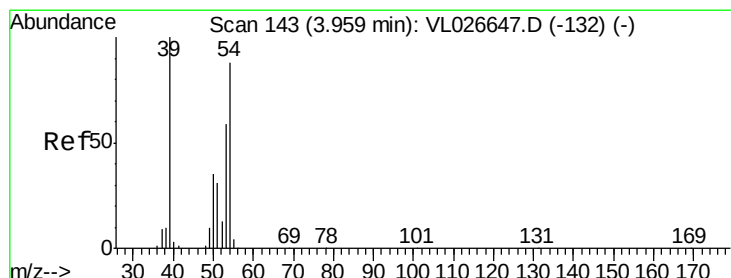
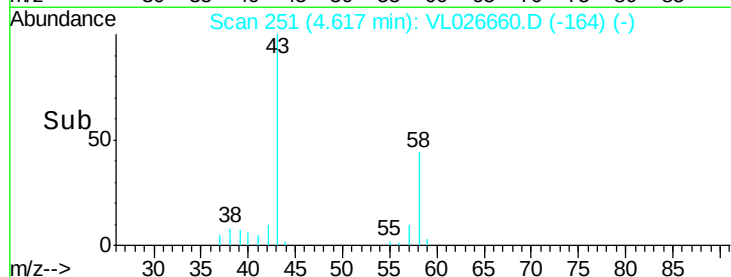
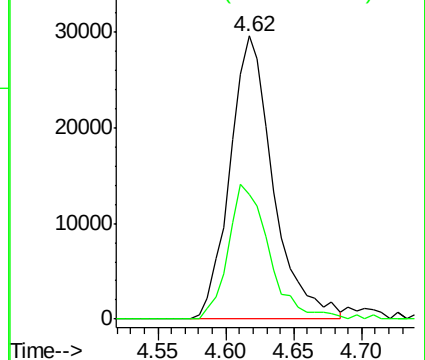
43 100

58 45.5 19.2 28.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.37 ppbv

RT: 3.96 min Scan# 144

Delta R.T. 0.01 min

Lab File: VL026660.D

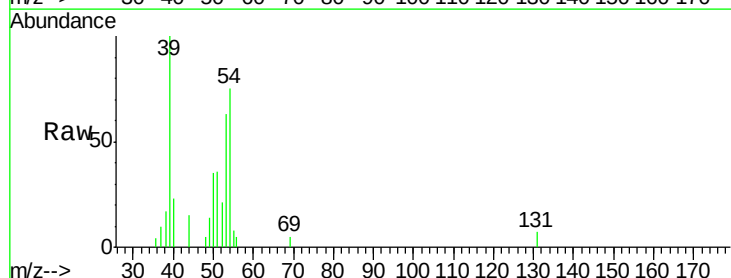
Acq: 9 Jan 2016 4:32

Tgt Ion: 39 Resp: 16702

Ion Ratio Lower Upper

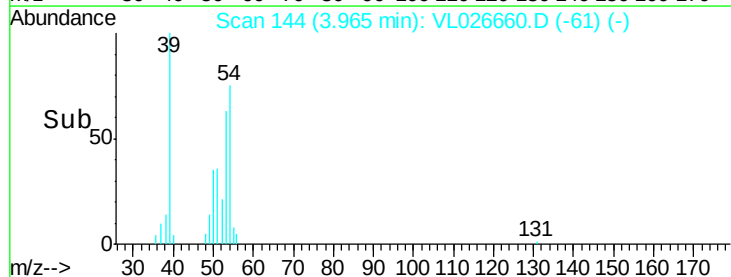
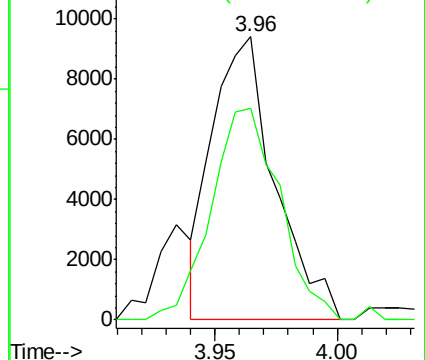
39 100

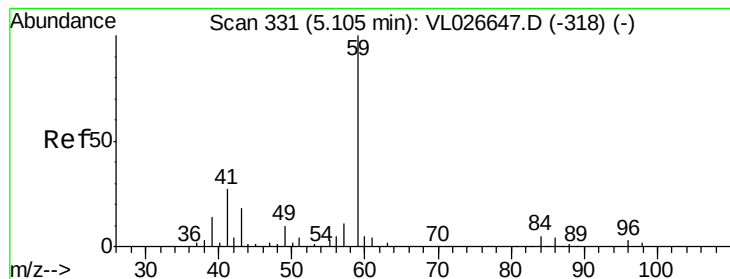
54 83.1 66.6 100.0



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 0.34 ppbv

RT: 5.15 min Scan# 339

Delta R.T. 0.05 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

Instrument :

MSVOA_L

ClientSampleId :

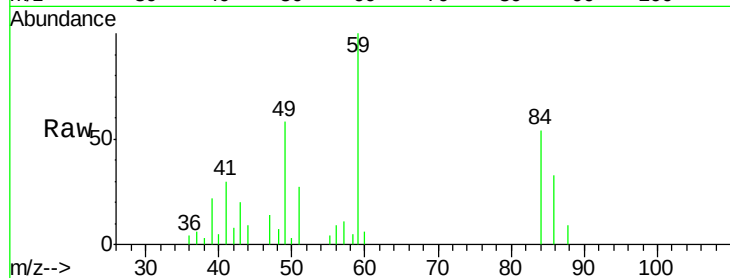
MDL-AIR-2

Tot Ion: 59 Resp: 28540

Ion Ratio Lower Upper

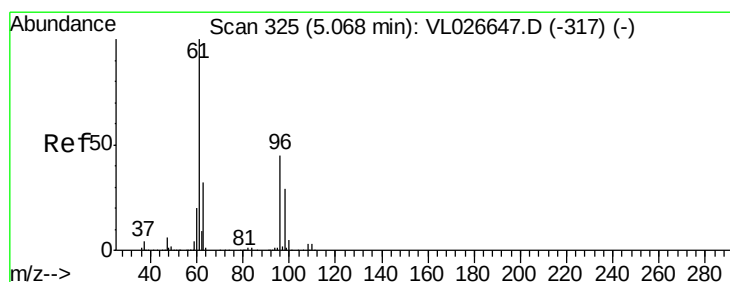
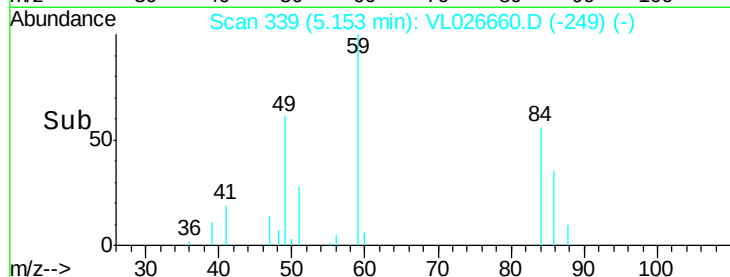
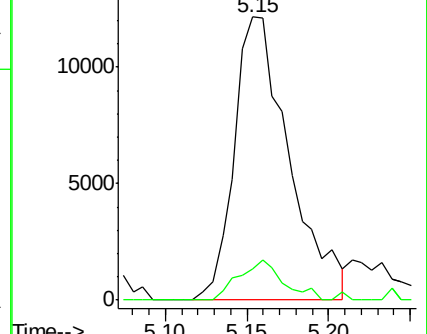
59 100

57 12.5 9.0 13.6



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 0.42 ppbv

RT: 5.07 min Scan# 325

Delta R.T. -0.00 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

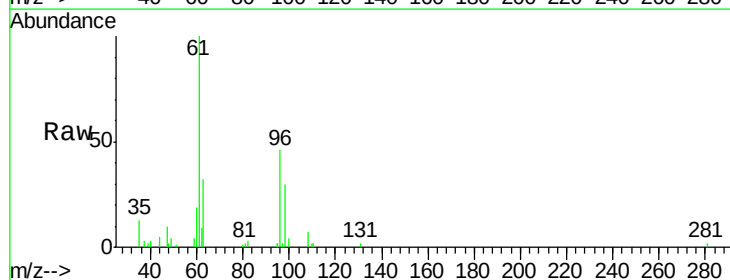
Tgt Ion: 96 Resp: 20189

Ion Ratio Lower Upper

96 100

61 210.6 176.7 265.1

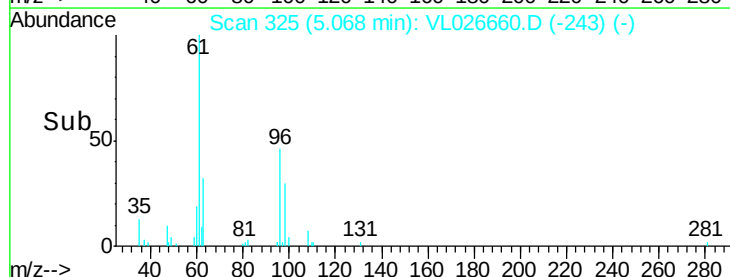
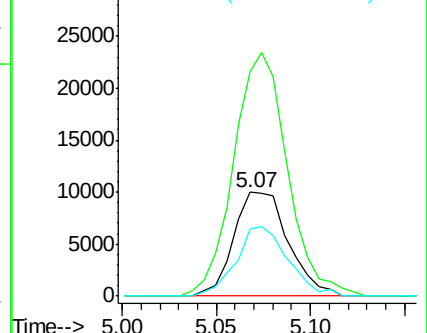
98 64.7 51.8 77.6

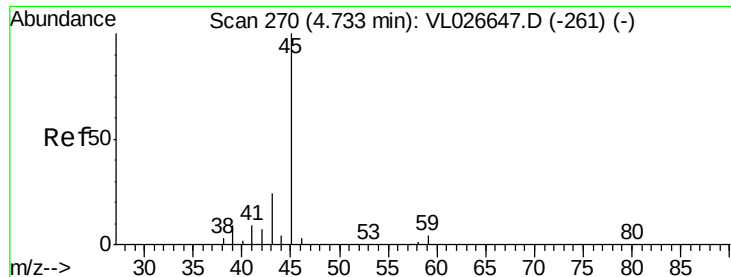


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 0.37 ppbv

RT: 4.78 min Scan# 278

Delta R.T. 0.05 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

Instrument :

MSVOA_L

ClientSampleId :

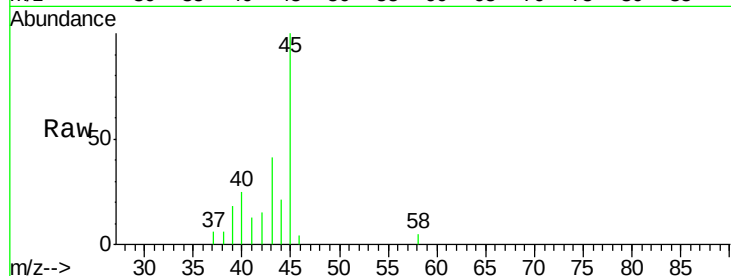
MDL-AIR-2

Tot Ion: 45 Resp: 16878

Ion Ratio Lower Upper

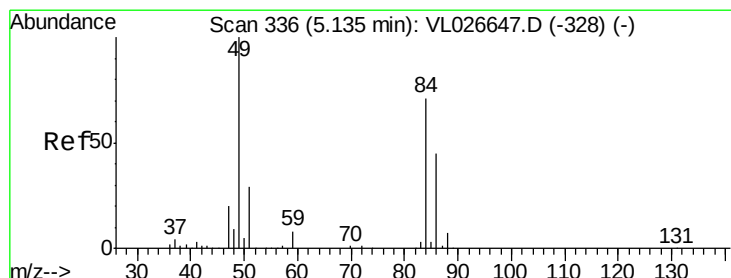
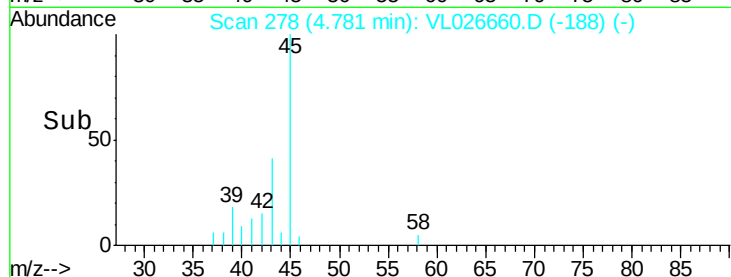
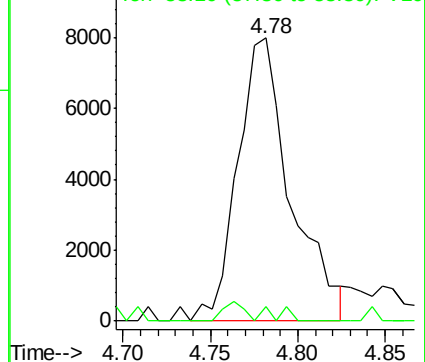
45 100

58 176.6 1.3 1.9#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.54 ppbv

RT: 5.14 min Scan# 336

Delta R.T. -0.00 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

Tgt Ion: 84 Resp: 24568

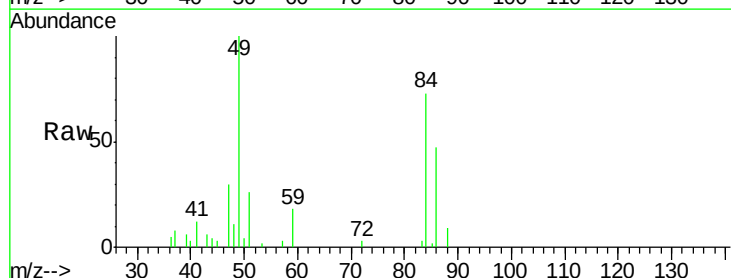
Ion Ratio Lower Upper

84 100

49 133.8 112.3 168.5

51 35.4 32.5 48.7

86 64.3 50.3 75.5

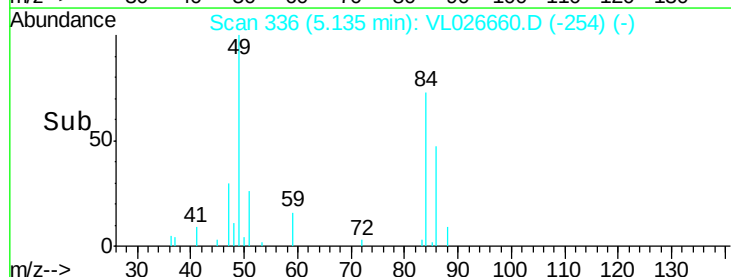
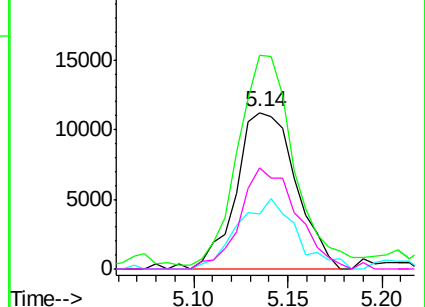


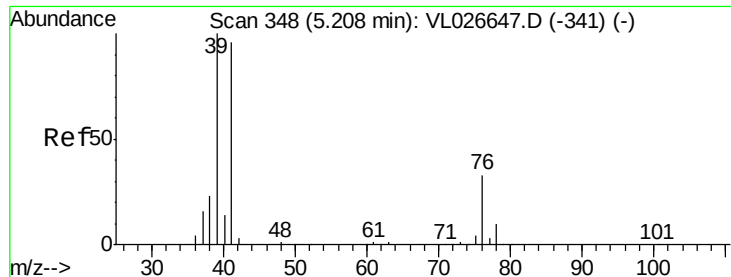
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#21

Allvl Chloride

Concen: 0.39 ppbv

RT: 5.22 min Scan# 350

Delta R.T. 0.01 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-2

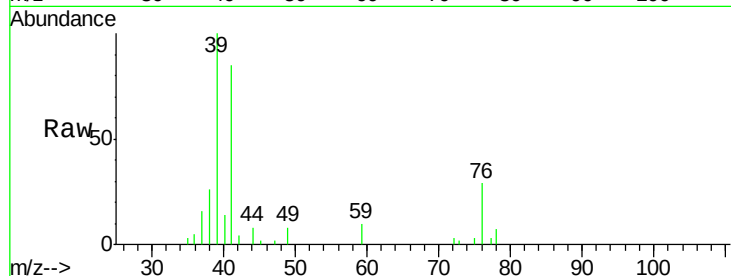
Tot Ion: 41 Resp: 26771

Ion Ratio Lower Upper

41 100

76 36.2 27.5 41.3

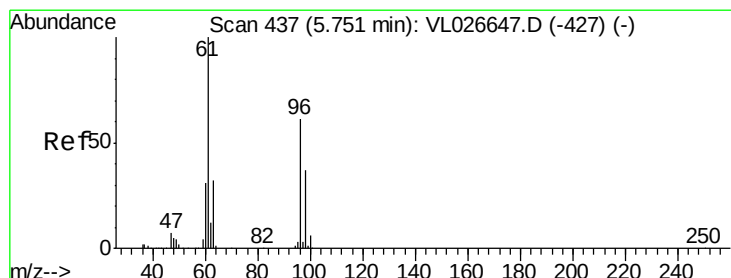
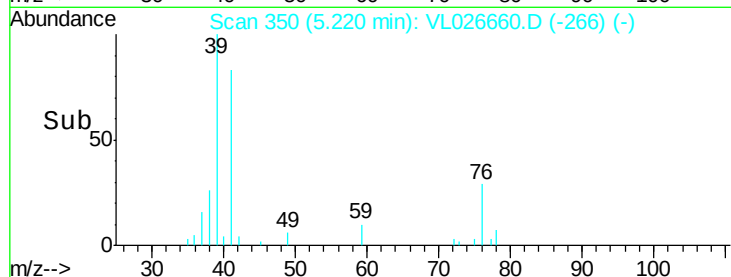
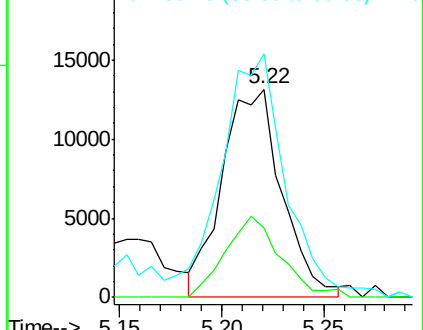
39 146.6 83.0 124.6#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 0.43 ppbv

RT: 5.76 min Scan# 438

Delta R.T. 0.01 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

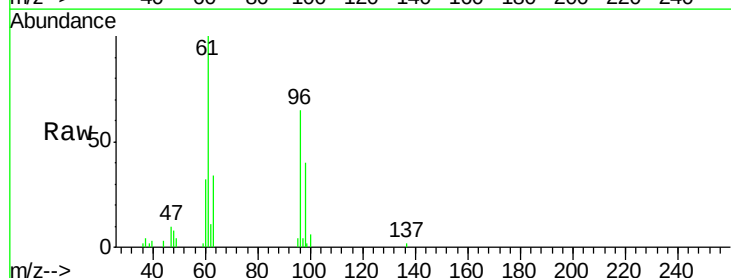
Tgt Ion: 96 Resp: 23638

Ion Ratio Lower Upper

96 100

61 152.8 131.0 196.6

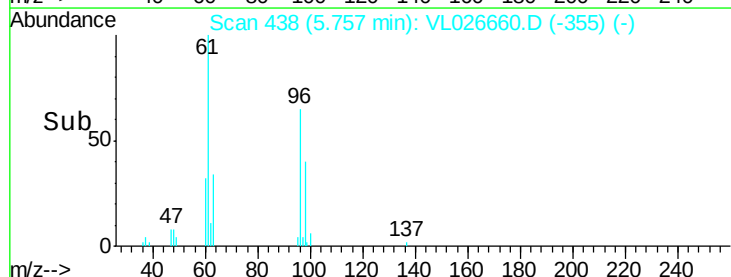
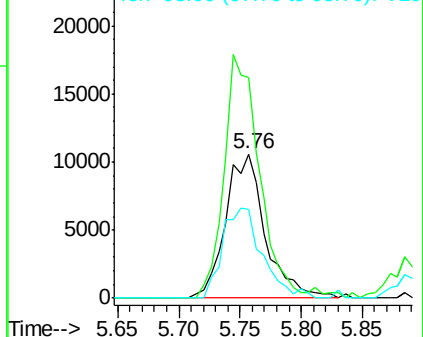
98 65.0 48.1 72.1

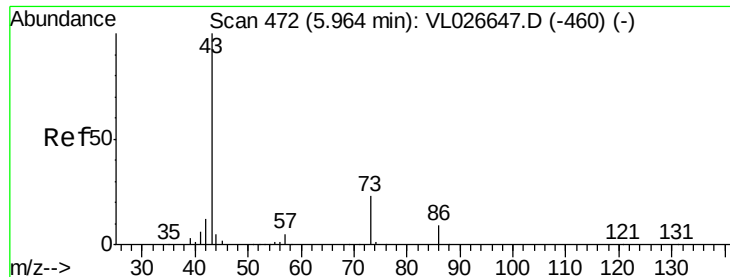


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 0.35 ppbv

RT: 5.98 min Scan# 475

Delta R.T. 0.02 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-2

Tot Ion: 43 Resp: 59482

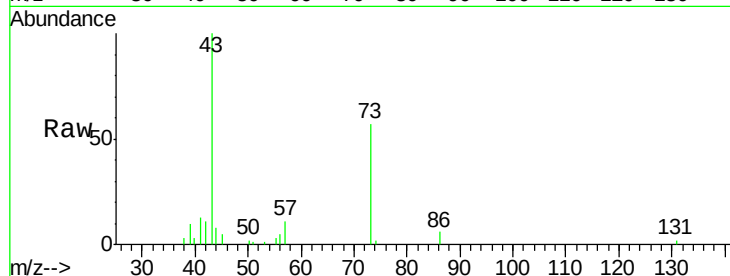
Ion Ratio Lower Upper

43 100

86 6.2 7.4 11.0#

42 11.7 9.2 13.8

44 7.8 3.8 5.8#

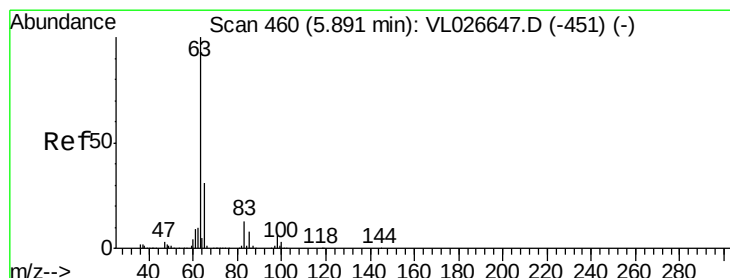
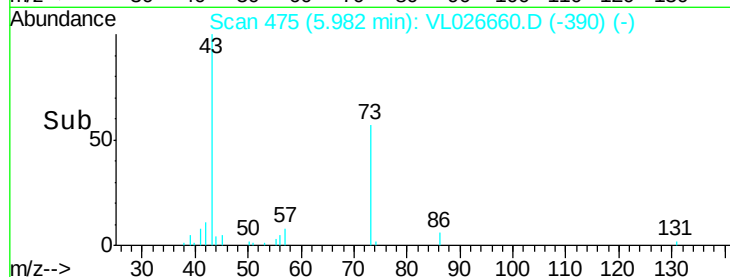
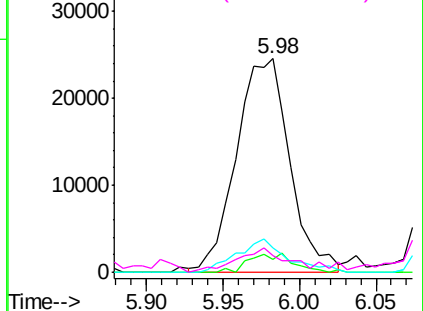


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: VL026660.D

Acq: 9 Jan 2016 4:32

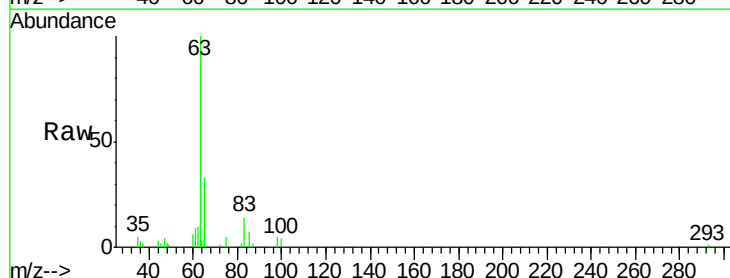
Tgt Ion: 63 Resp: 55812

Ion Ratio Lower Upper

63 100

98 5.4 2.9 8.7

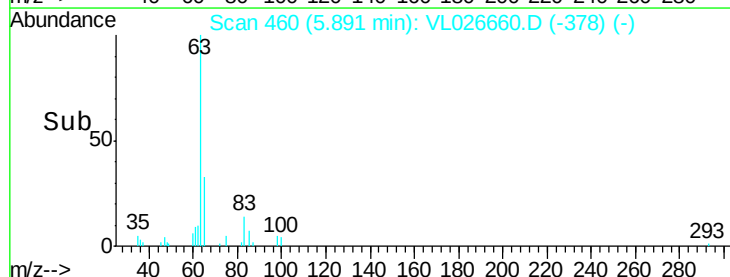
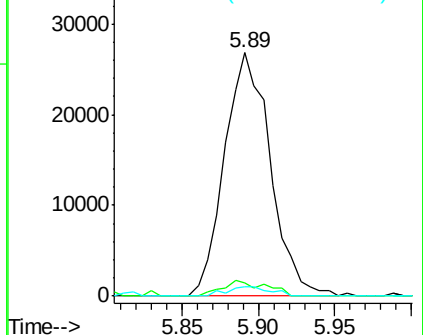
100 3.7 1.6 4.8

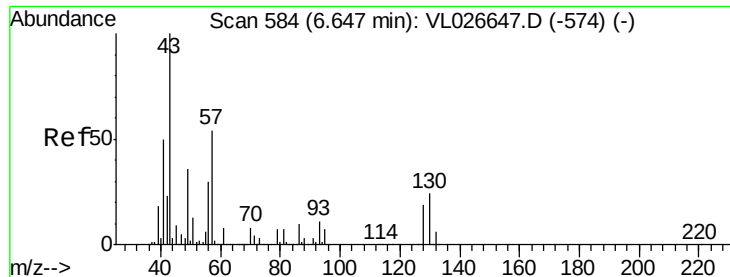


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

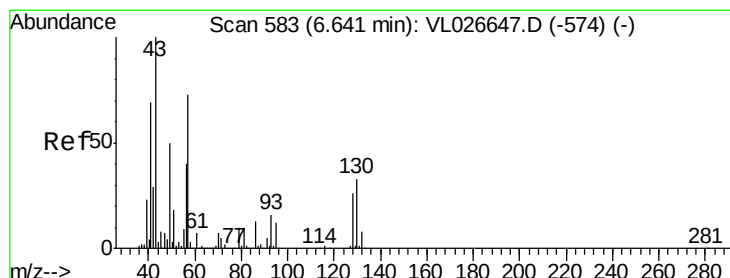
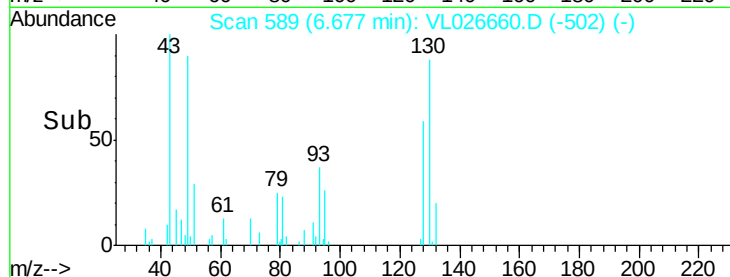
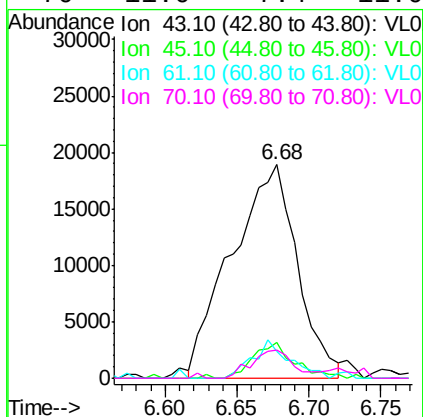
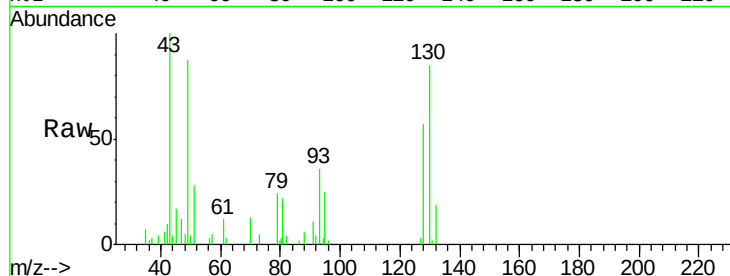




#25
Ethyl Acetate
Concen: 0.35 ppbv
RT: 6.68 min Scan# 589
Delta R.T. 0.03 min
Lab File: VL026660.D
Acq: 9 Jan 2016 4:32

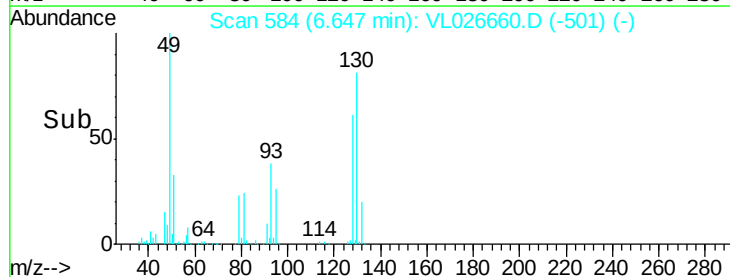
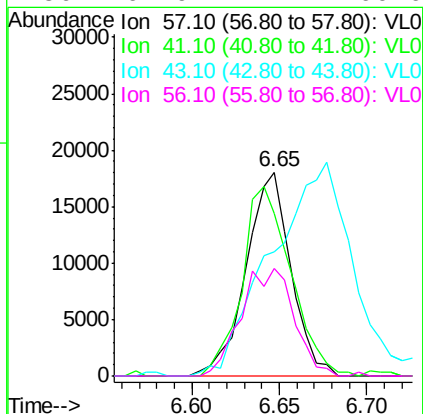
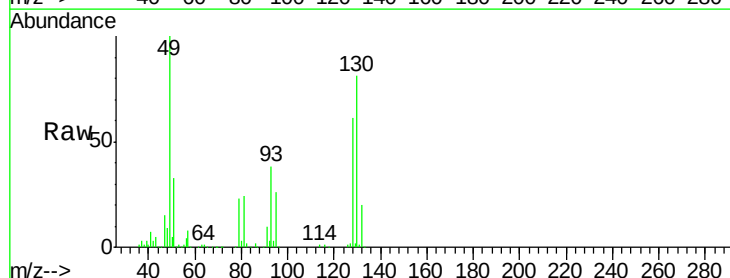
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-2

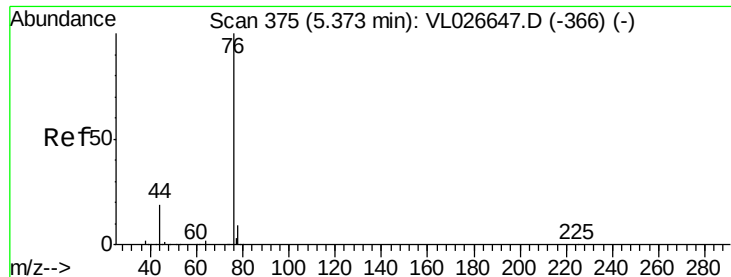
Tot Ion:	43	Resp:	60031
Ion	Ratio	Lower	Upper
43	100		
45	10.8	7.5	11.3
61	10.7	7.3	10.9
70	11.0	7.4	11.0#



#26
Hexane
Concen: 0.36 ppbv
RT: 6.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VL026660.D
Acq: 9 Jan 2016 4:32

Tgt Ion:	57	Resp:	32143
Ion	Ratio	Lower	Upper
57	100		
41	103.0	74.8	112.2
43	197.9	161.5	242.3
56	62.9	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: VL026660.D

Acq: 9 Jan 2016 4:32

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-2

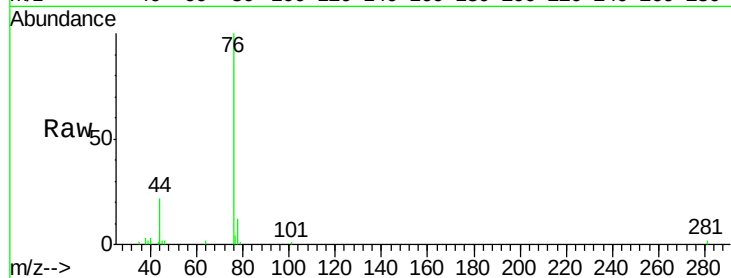
Tot Ion: 76 Resp: 57821

Ion Ratio Lower Upper

76 100

44 28.4 15.9 23.9#

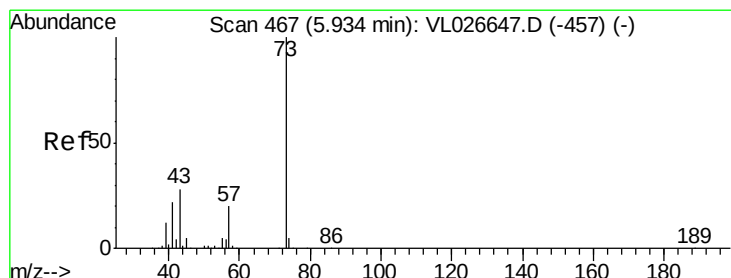
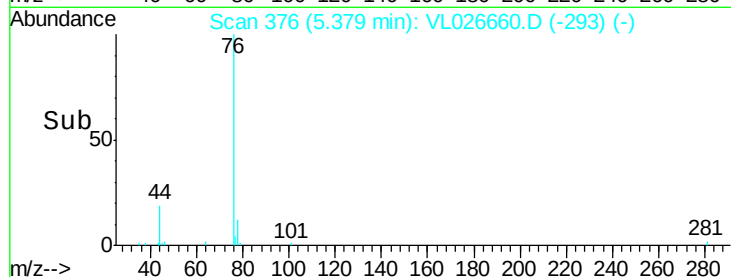
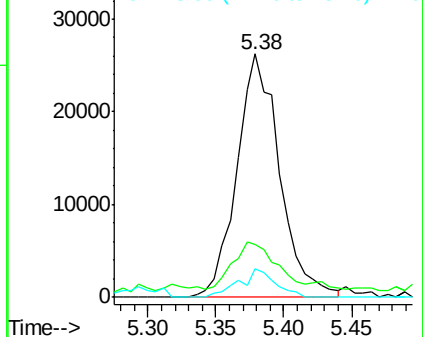
78 9.7 7.6 11.4



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 0.36 ppbv

RT: 5.96 min Scan# 472

Delta R.T. 0.03 min

Lab File: VL026660.D

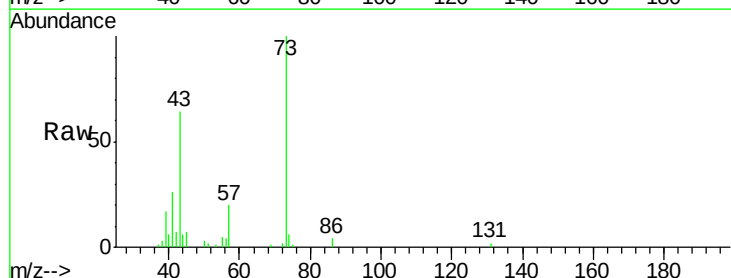
Acq: 9 Jan 2016 4:32

Tgt Ion: 73 Resp: 63582

Ion Ratio Lower Upper

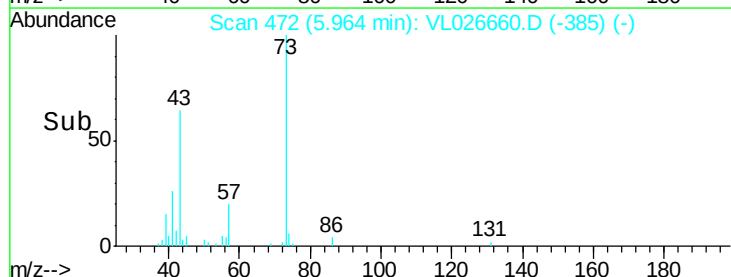
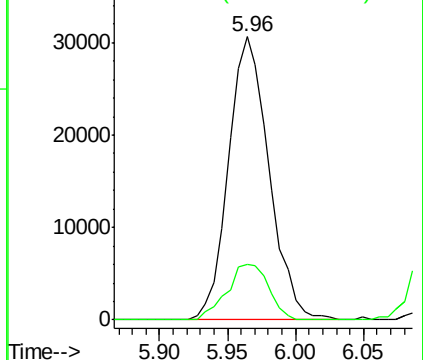
73 100

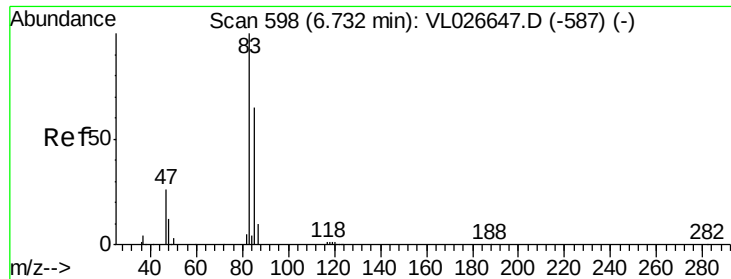
57 20.3 16.2 24.4



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

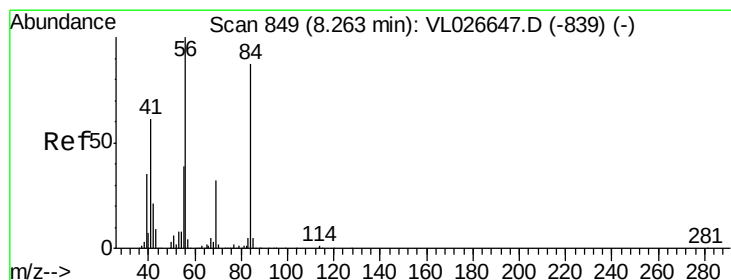
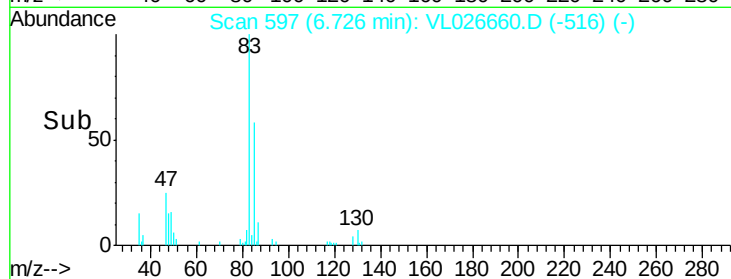
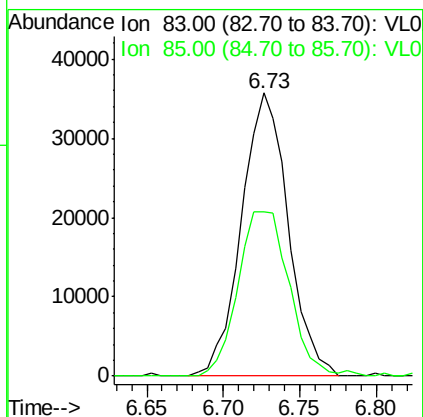
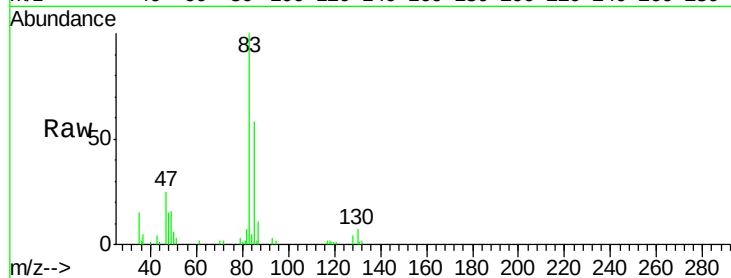




#29
Chloroform
Concen: 0.47 ppbv
RT: 6.73 min Scan# 597
Delta R.T. -0.01 min
Lab File: VL026660.D
Acq: 9 Jan 2016 4:32

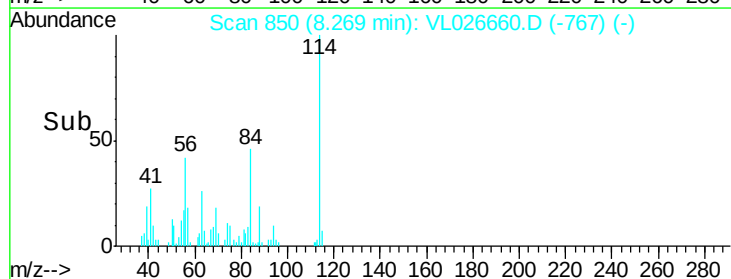
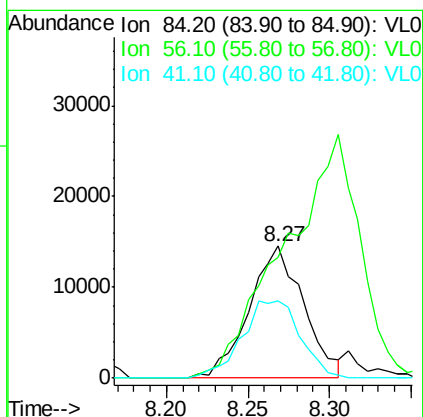
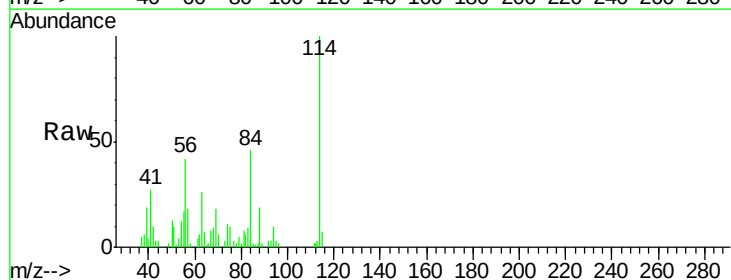
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-2

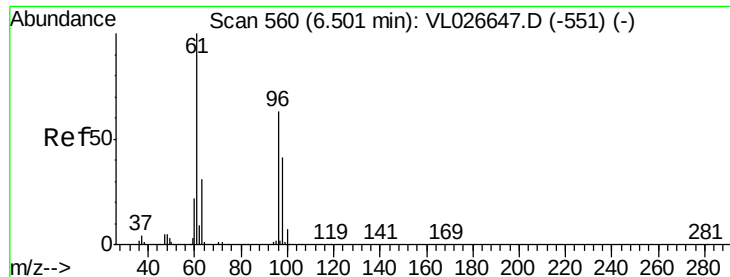
Tot Ion: 83 Resp: 76026
Ion Ratio Lower Upper
83 100
85 57.9 51.6 77.4



#30
Cyclohexane
Concen: 0.38 ppbv
RT: 8.27 min Scan# 850
Delta R.T. 0.01 min
Lab File: VL026660.D
Acq: 9 Jan 2016 4:32

Tgt Ion: 84 Resp: 33631
Ion Ratio Lower Upper
84 100
56 0.0 95.9 143.9#
41 62.8 54.8 82.2





#31

cis-1,2-Dichloroethene

Concen: 0.38 ppbv

RT: 6.50 min Scan# 560

Delta R.T. -0.00 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-2

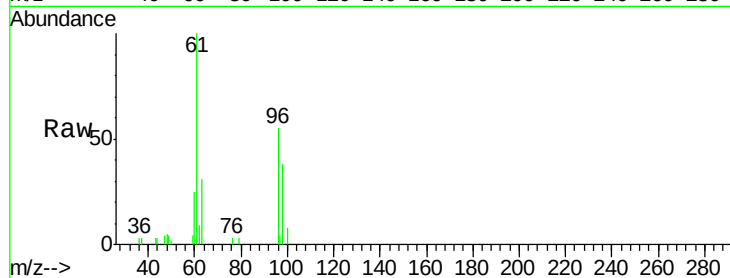
Tot Ion: 61 Resp: 34234

Ion Ratio Lower Upper

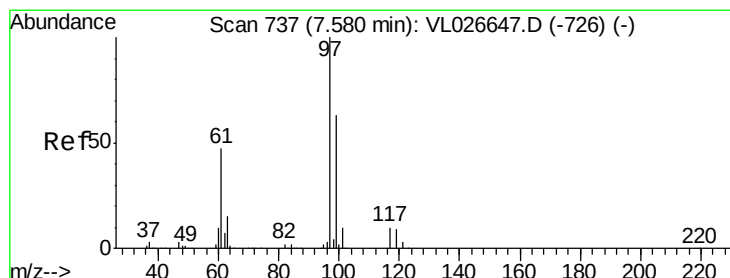
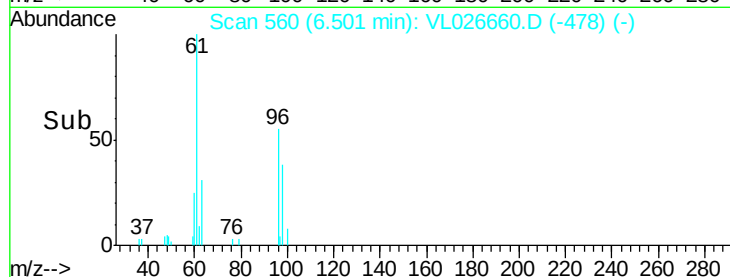
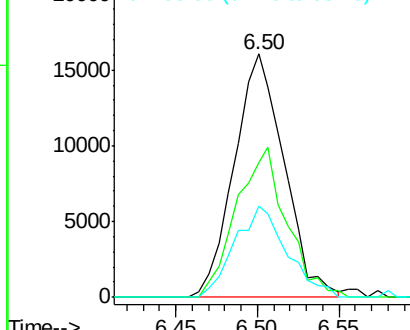
61 100

96 55.5 50.2 75.4

98 37.6 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: 0.42 ppbv

RT: 7.58 min Scan# 737

Delta R.T. -0.00 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

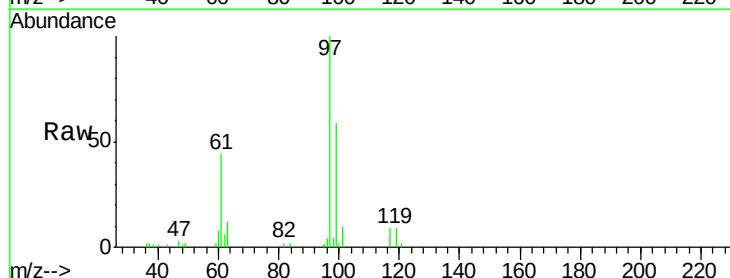
Tgt Ion: 97 Resp: 76041

Ion Ratio Lower Upper

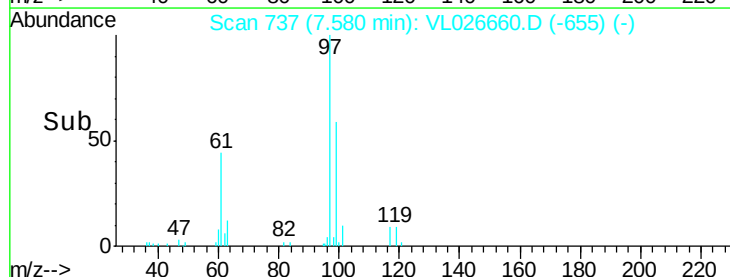
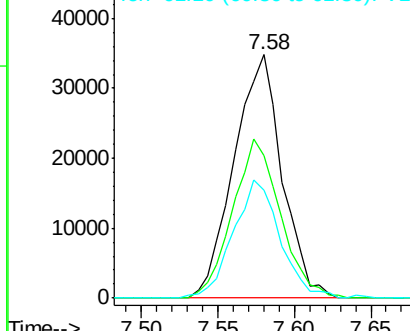
97 100

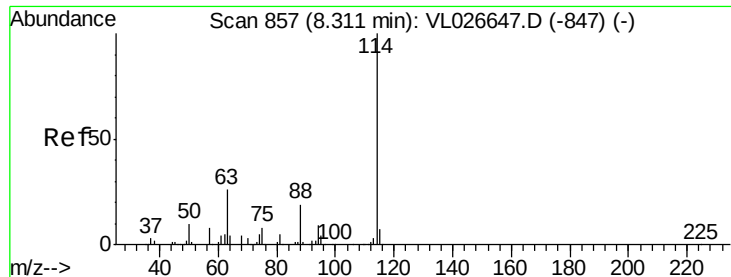
99 64.8 50.8 76.2

61 47.5 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: VL026660.D

Acq: 9 Jan 2016 4:32

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-2

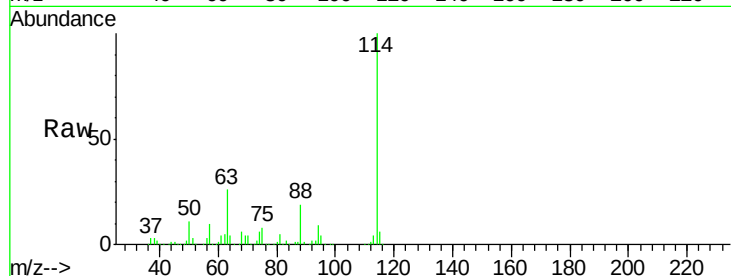
Tot Ion:114 Resp: 2179985

Ion Ratio Lower Upper

114 100

63 26.1 21.7 32.5

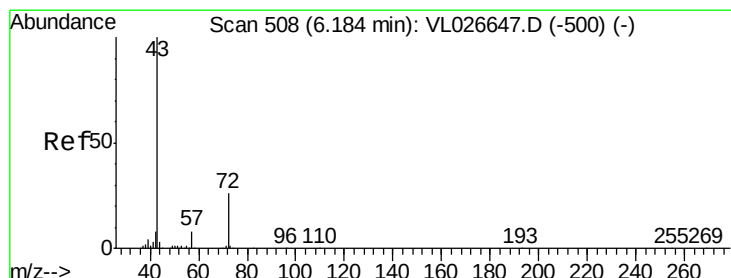
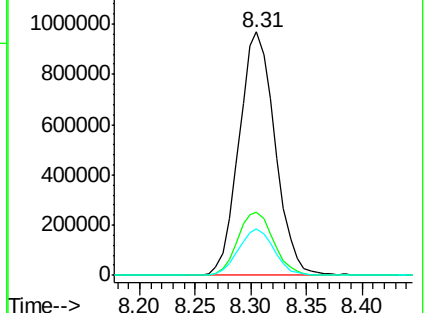
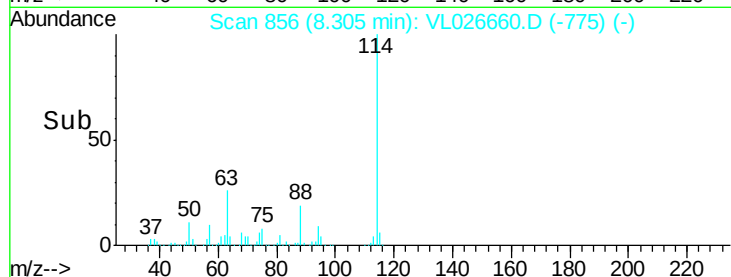
88 19.0 15.2 22.8



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: 0.36 ppbv

RT: 6.21 min Scan# 513

Delta R.T. 0.03 min

Lab File: VL026660.D

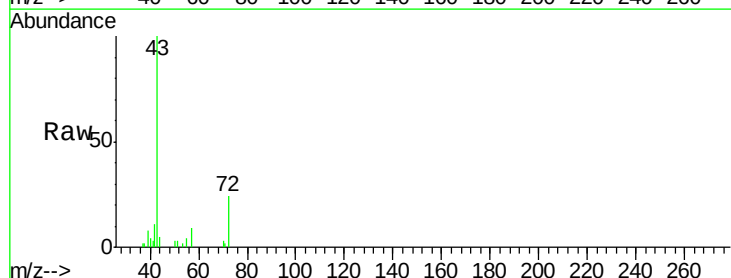
Acq: 9 Jan 2016 4:32

Tgt Ion: 43 Resp: 41273

Ion Ratio Lower Upper

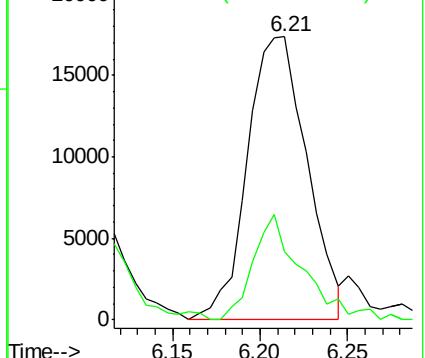
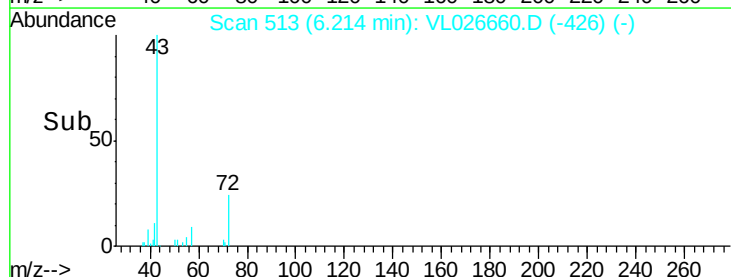
43 100

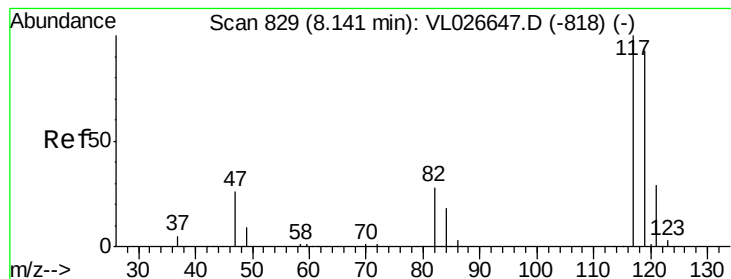
72 30.6 20.9 31.3



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: 8.13 min Scan# 828

Delta R.T. -0.01 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-2

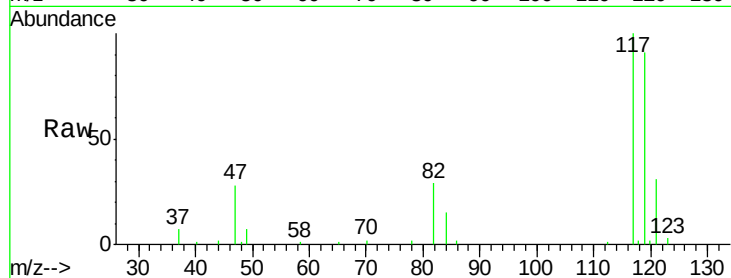
Tot Ion:117 Resp: 76610

Ion Ratio Lower Upper

117 100

119 90.6 74.7 112.1

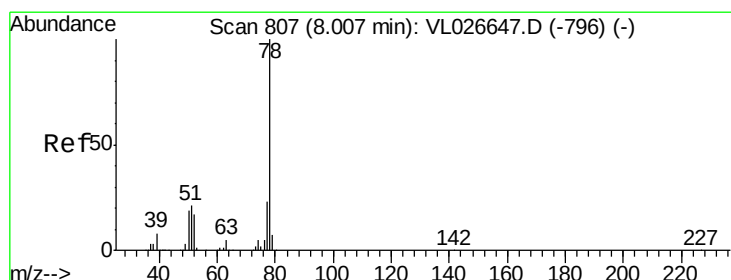
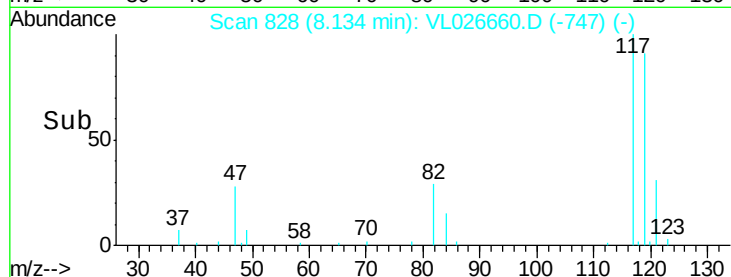
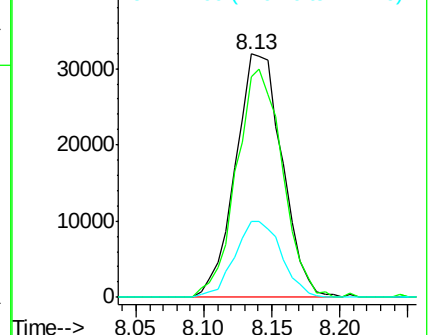
121 31.4 23.1 34.7



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: 0.34 ppbv

RT: 8.00 min Scan# 806

Delta R.T. -0.01 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

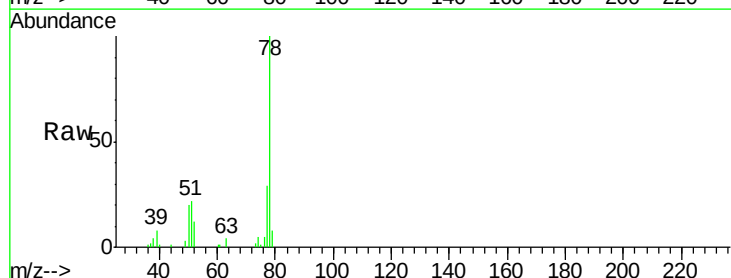
Tgt Ion: 78 Resp: 75815

Ion Ratio Lower Upper

78 100

77 28.7 18.5 27.7#

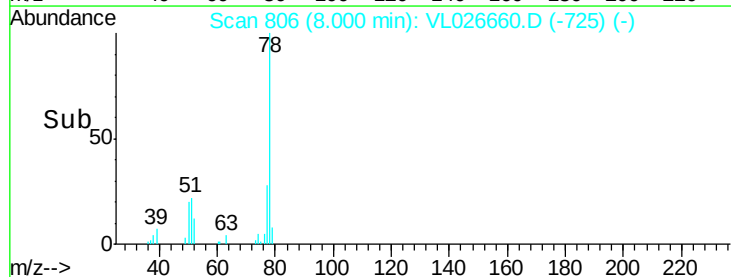
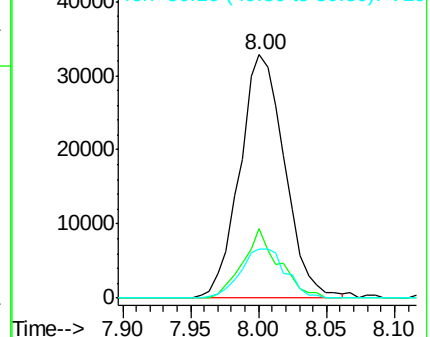
50 20.0 15.4 23.2

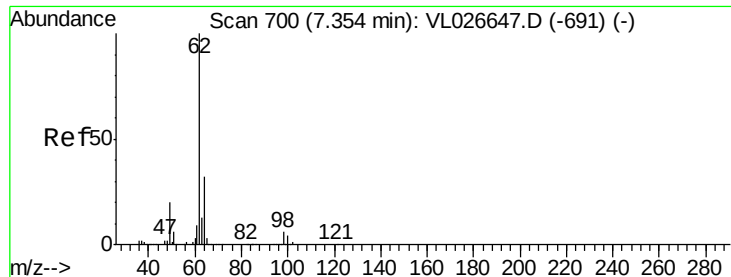


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

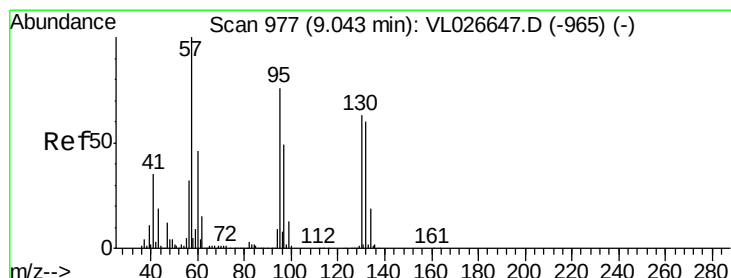
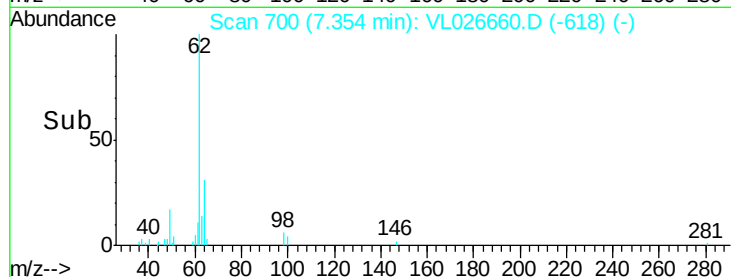
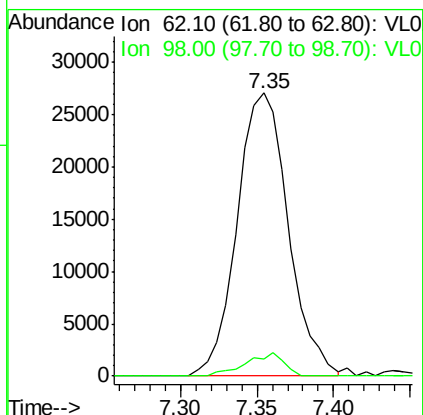
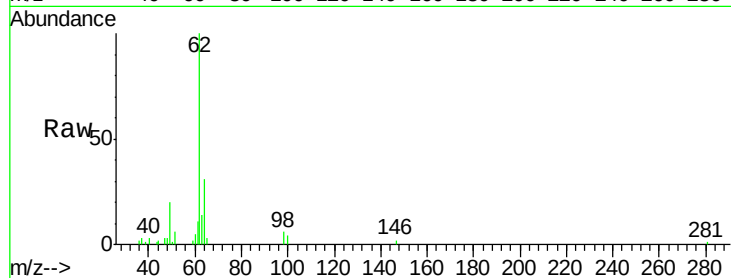




#37
 1,2-Dichloroethane
 Concen: 0.41 ppbv
 RT: 7.35 min Scan# 700
 Delta R.T. -0.00 min
 Lab File: VL026660.D
 Acq: 9 Jan 2016 4:32

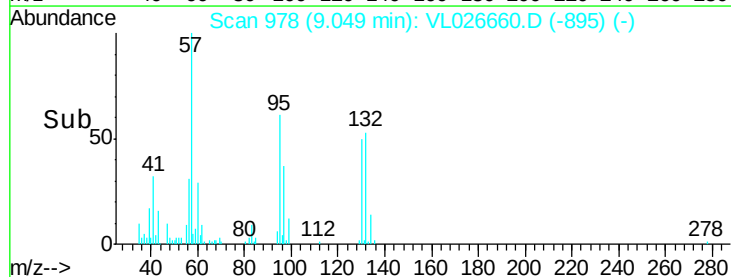
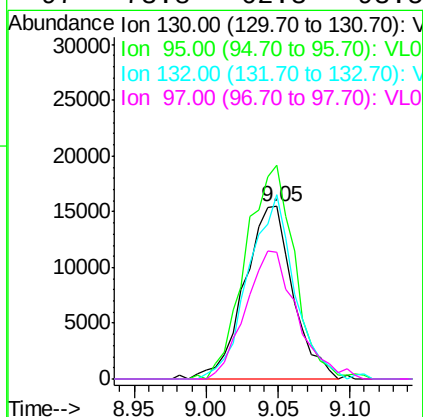
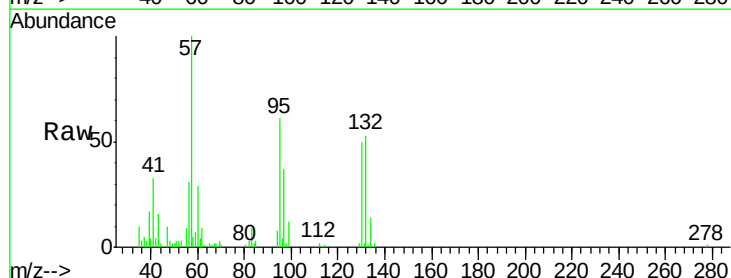
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-2

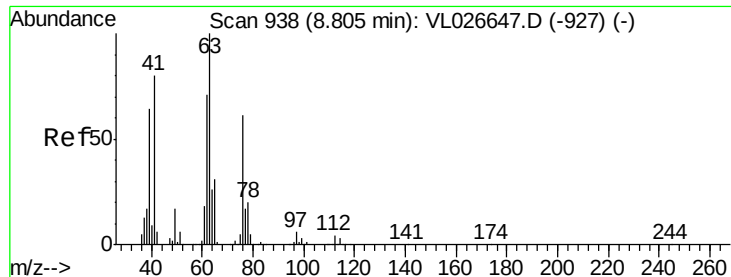
Tot Ion: 62 Resp: 62875
 Ion Ratio Lower Upper
 62 100
 98 6.2 4.8 7.2



#38
 Trichloroethene
 Concen: 0.36 ppbv
 RT: 9.05 min Scan# 978
 Delta R.T. 0.01 min
 Lab File: VL026660.D
 Acq: 9 Jan 2016 4:32

Tgt Ion: 130 Resp: 35952
 Ion Ratio Lower Upper
 130 100
 95 123.9 96.6 145.0
 132 106.9 76.2 114.4
 97 73.8 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: VL026660.D

Acq: 9 Jan 2016 4:32

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-2

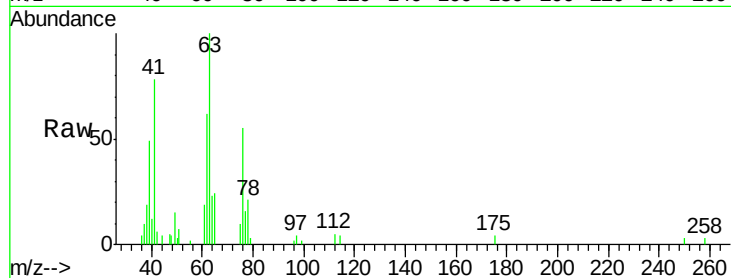
Tot Ion: 63 Resp: 31188

Ion Ratio Lower Upper

63 100

41 73.9 64.1 96.1

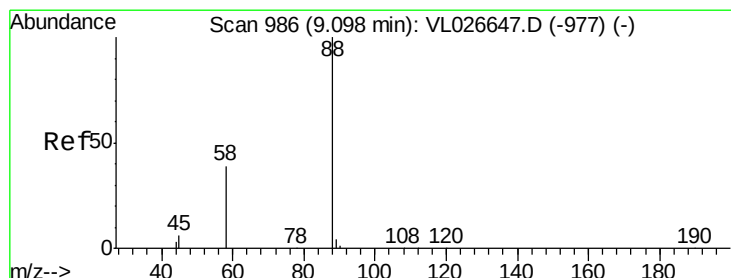
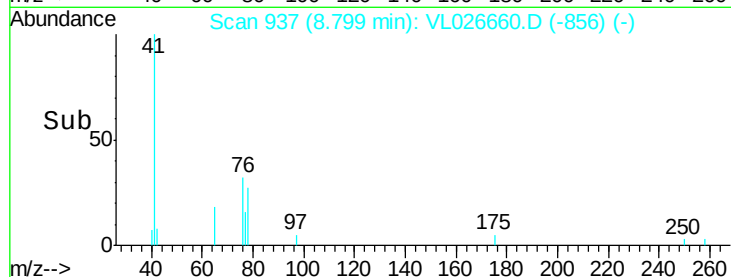
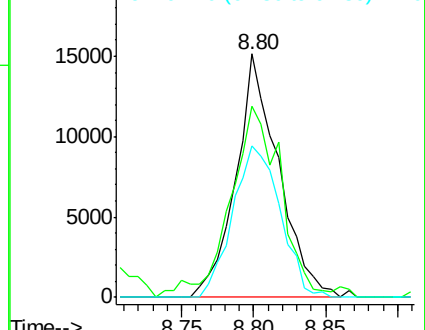
62 62.1 56.6 84.8



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: 0.08 ppbv

RT: 9.16 min Scan# 996

Delta R.T. 0.06 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

Tgt Ion: 88 Resp: 1497

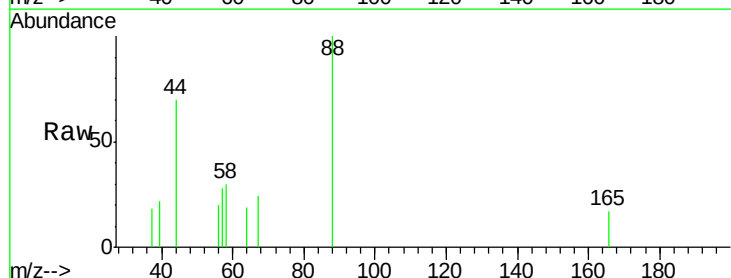
Ion Ratio Lower Upper

88 100

58 411.3 109.4 164.2#

43 1416.6 238.2 357.2#

57 8157.0 1148.3 1722.5#

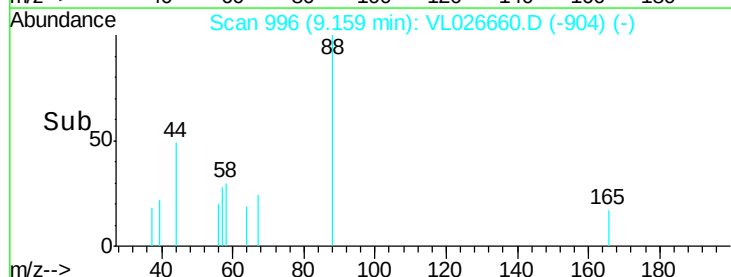
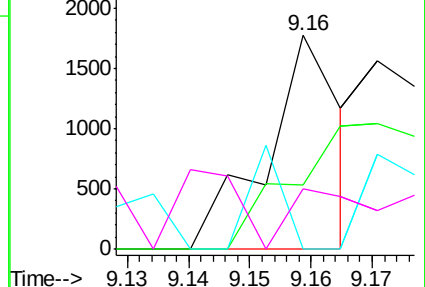


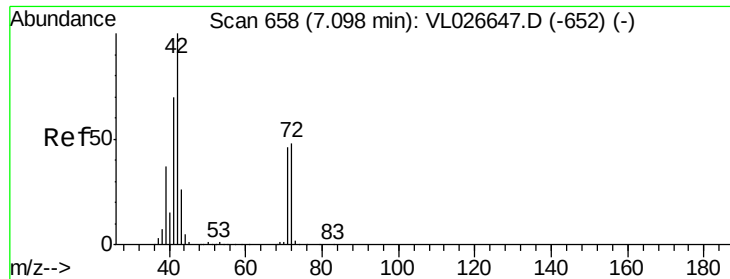
Abundance Ion 88.10 (87.80 to 88.80): VL0

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: 0.28 ppbv

RT: 7.15 min Scan# 666

Delta R.T. 0.05 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-2

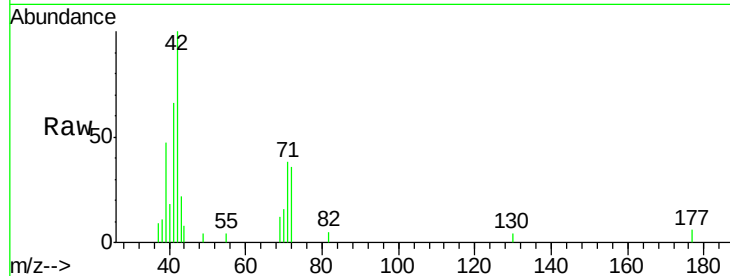
Tot Ion: 42 Resp: 16328

Ion Ratio Lower Upper

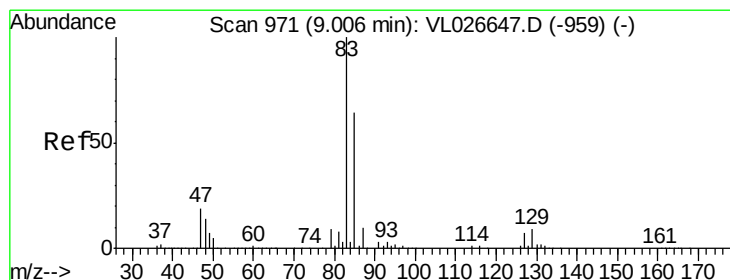
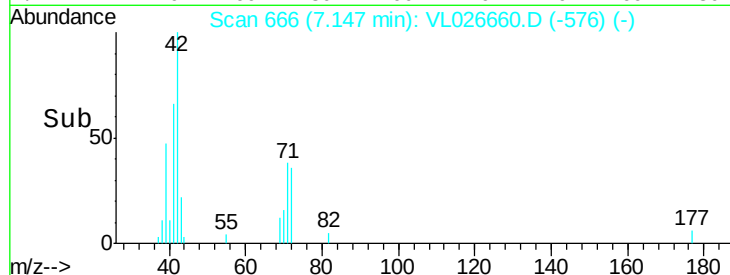
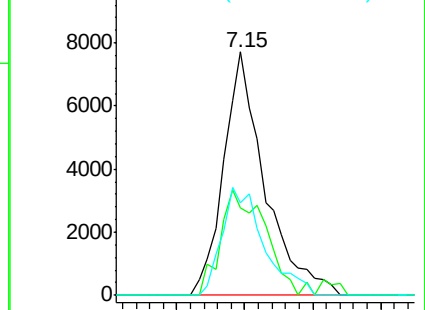
42 100

72 50.0 40.6 60.8

71 44.7 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: VL026660.D

Acq: 9 Jan 2016 4:32

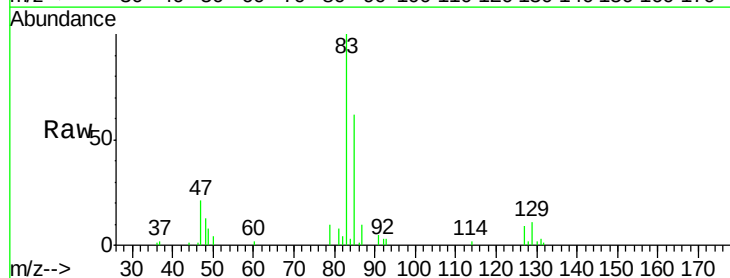
Tgt Ion: 83 Resp: 76852

Ion Ratio Lower Upper

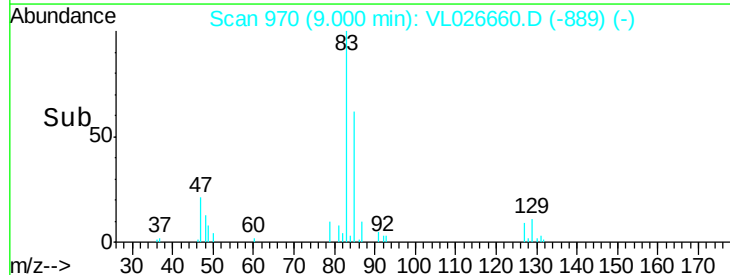
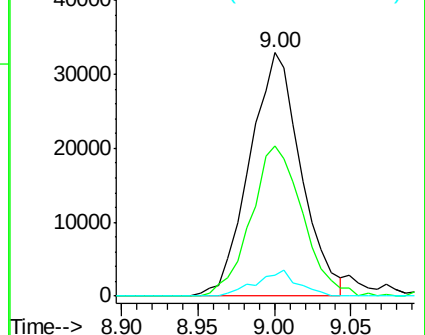
83 100

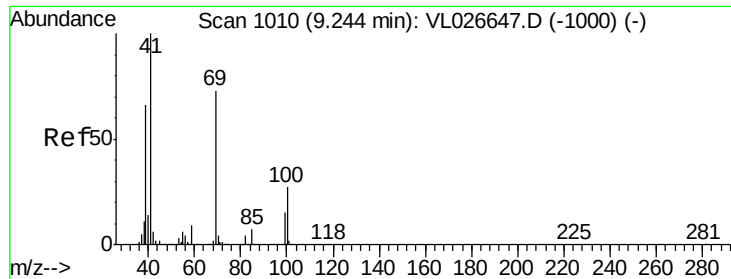
85 61.6 50.9 76.3

127 8.5 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

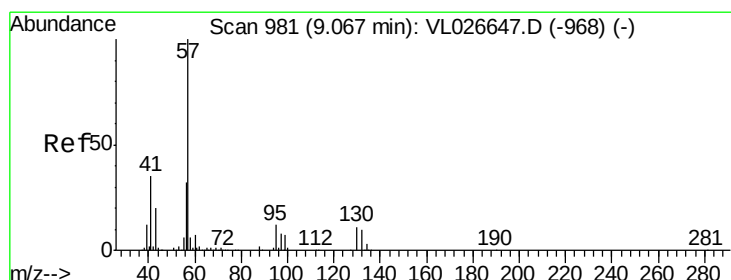
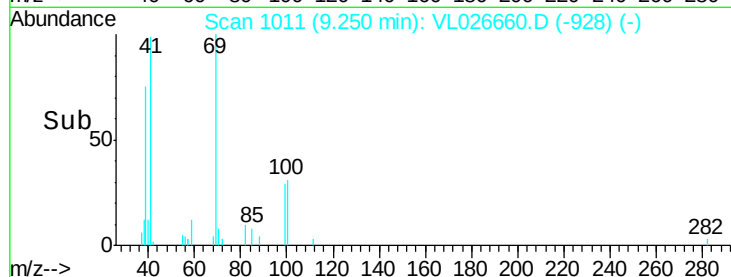
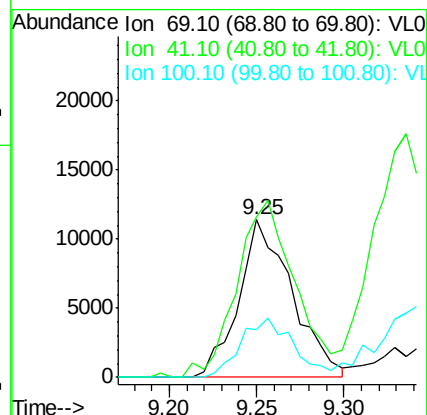
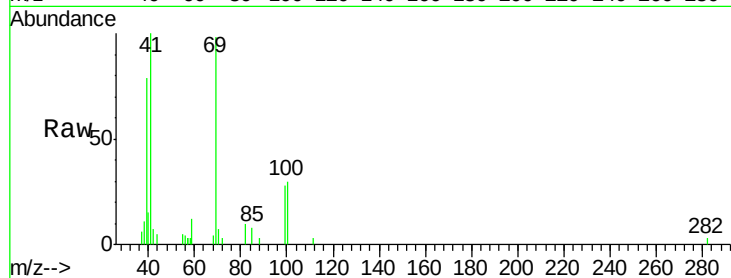




#43
Methyl Methacrylate
Concen: 0.30 ppbv
RT: 9.25 min Scan# 1011
Delta R.T. 0.01 min
Lab File: VL026660.D
Acq: 9 Jan 2016 4:32

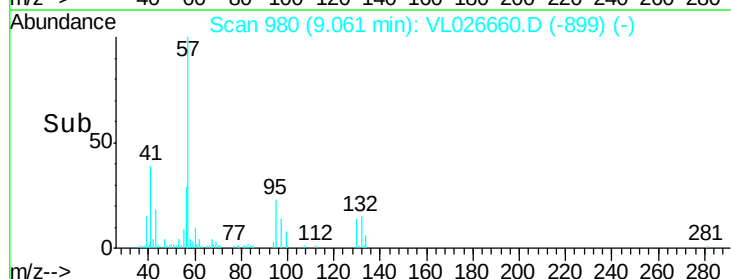
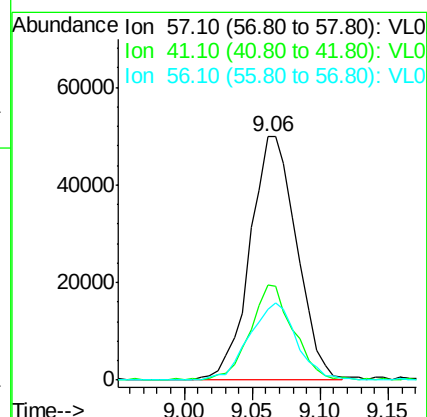
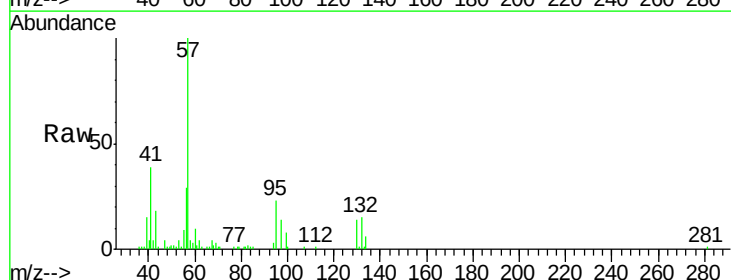
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-2

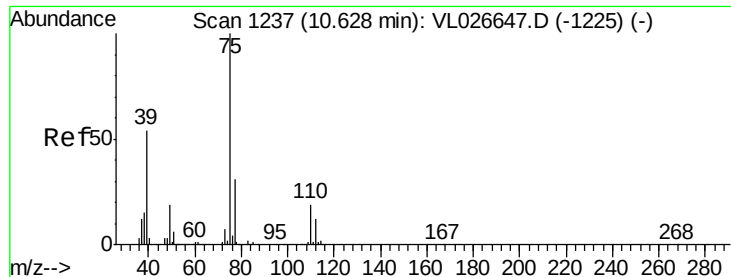
Tot Ion: 69 Resp: 24219
Ion Ratio Lower Upper
69 100
41 119.3 106.1 159.1
100 36.4 29.0 43.4



#44
2,2,4-Trimethylpentane
Concen: 0.33 ppbv
RT: 9.06 min Scan# 980
Delta R.T. -0.01 min
Lab File: VL026660.D
Acq: 9 Jan 2016 4:32

Tgt Ion: 57 Resp: 119761
Ion Ratio Lower Upper
57 100
41 36.2 26.9 40.3
56 32.2 25.4 38.0





#45

t-1,3-Dichloropropene

Concen: 0.27 ppbv

RT: 10.63 min Scan# 1237

Delta R.T. -0.00 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

Instrument :

MSVOA_L

ClientSampleId :

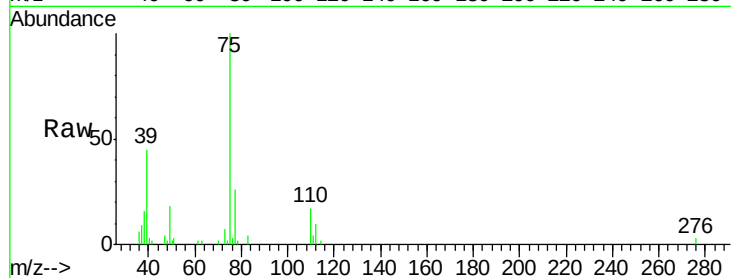
MDL-AIR-2

Tot Ion: 75 Resp: 36123

Ion Ratio Lower Upper

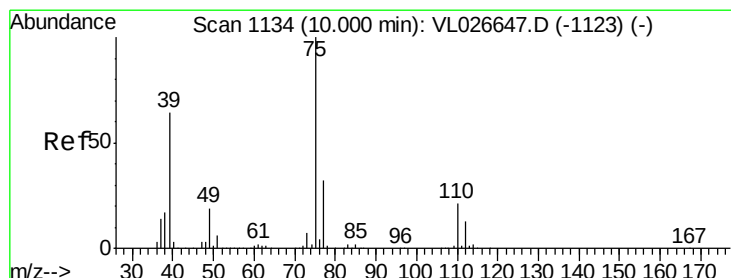
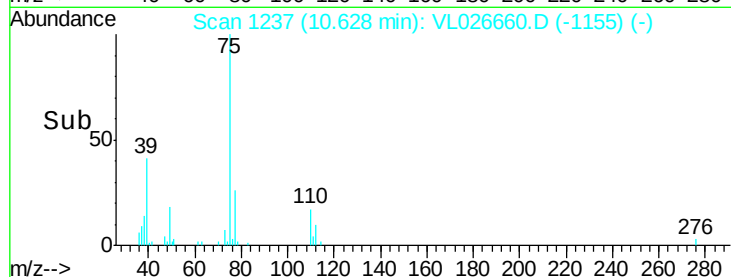
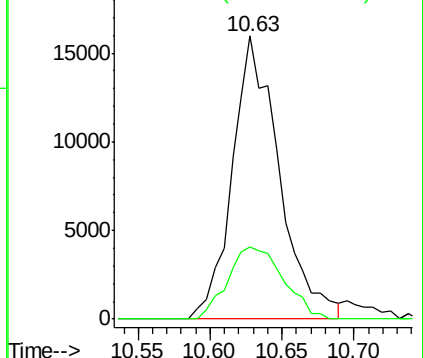
75 100

77 25.6 24.6 37.0



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: 0.28 ppbv

RT: 10.00 min Scan# 1134

Delta R.T. -0.00 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

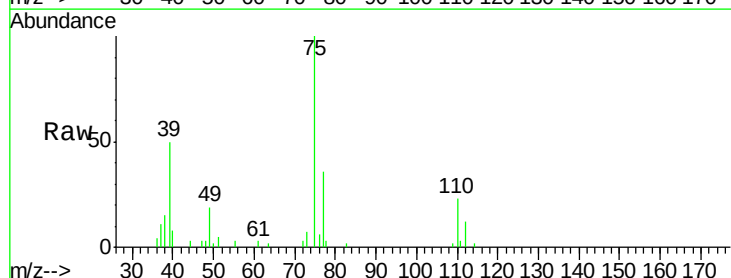
Tgt Ion: 75 Resp: 42157

Ion Ratio Lower Upper

75 100

39 48.1 51.2 76.8#

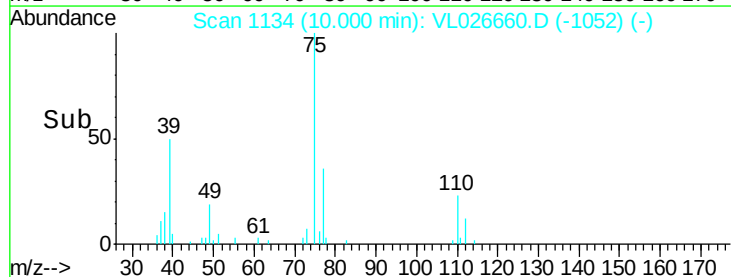
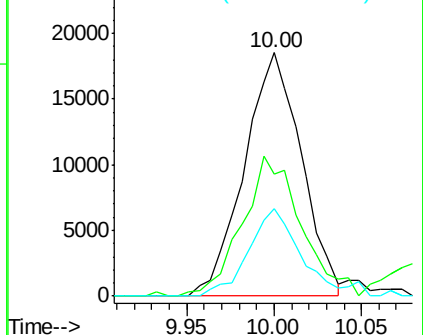
77 35.9 25.9 38.9

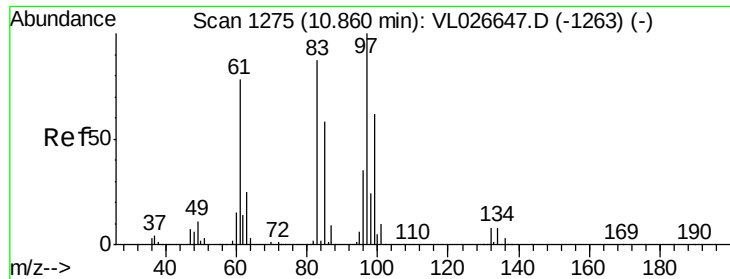


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

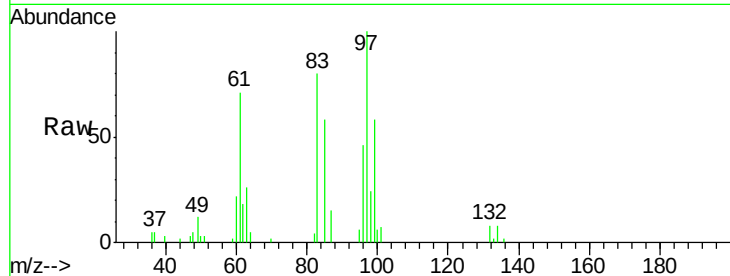




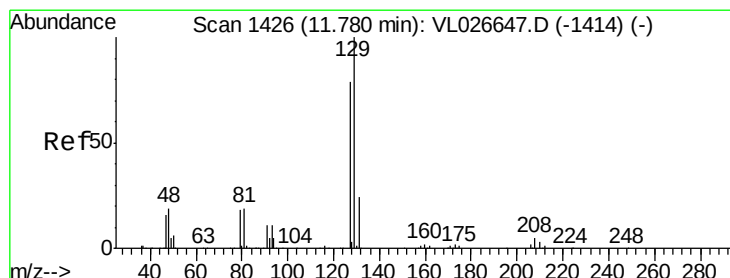
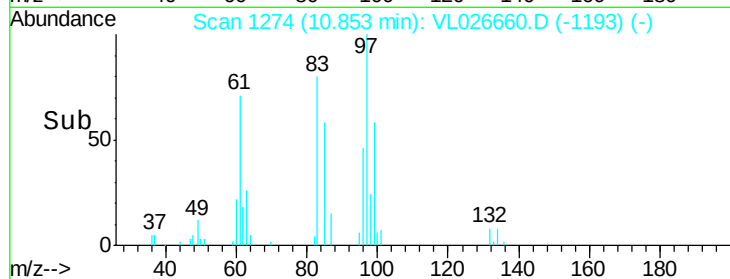
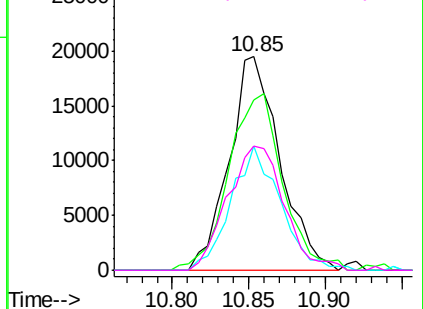
#47
 1,1,2-Trichloroethane
 Concen: 0.41 ppbv
 RT: 10.85 min Scan# 1274
 Delta R.T. -0.01 min
 Lab File: VL026660.D
 Acq: 9 Jan 2016 4:32

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-2

Tot Ion: 97 Resp: 44944
 Ion Ratio Lower Upper
 97 100
 83 76.7 69.5 104.3
 85 58.2 46.4 69.6
 99 58.2 49.9 74.9

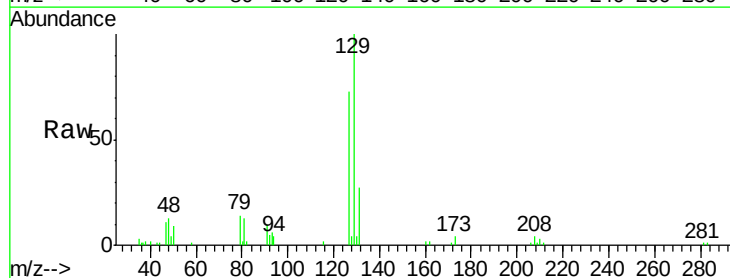


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

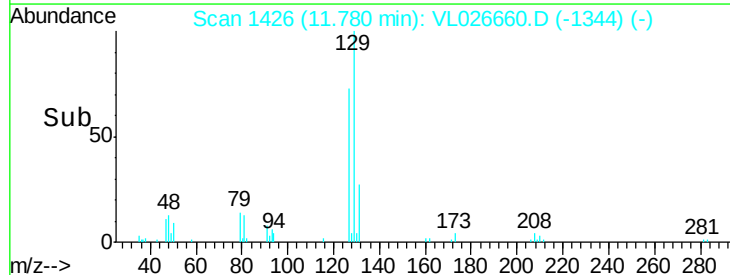
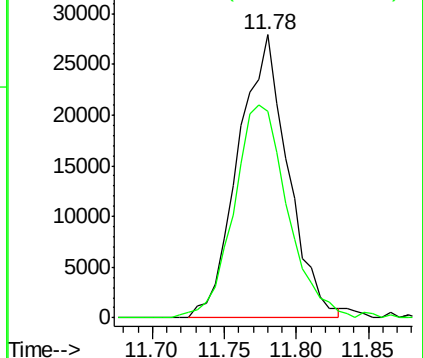


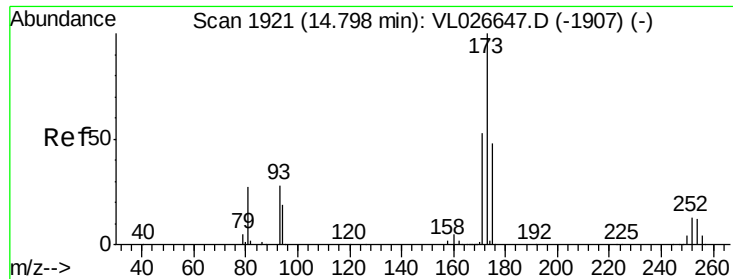
#48
 Dibromochloromethane
 Concen: 0.40 ppbv
 RT: 11.78 min Scan# 1426
 Delta R.T. -0.00 min
 Lab File: VL026660.D
 Acq: 9 Jan 2016 4:32

Tgt Ion: 129 Resp: 66972
 Ion Ratio Lower Upper
 129 100
 127 81.6 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: 0.39 ppbv

RT: 14.79 min Scan# 1920

Delta R.T. -0.01 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-2

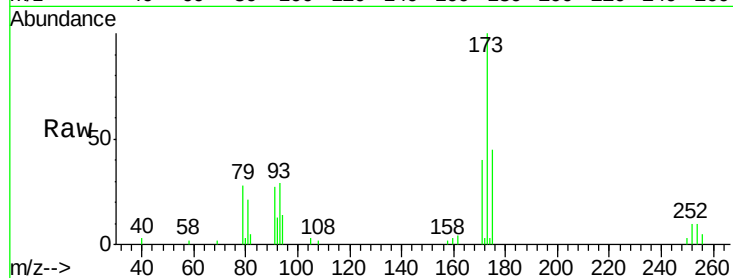
Tot Ion:173 Resp: 52992

Ion Ratio Lower Upper

173 100

175 46.9 38.6 58.0

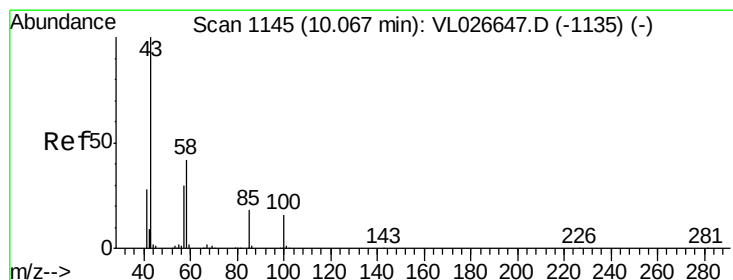
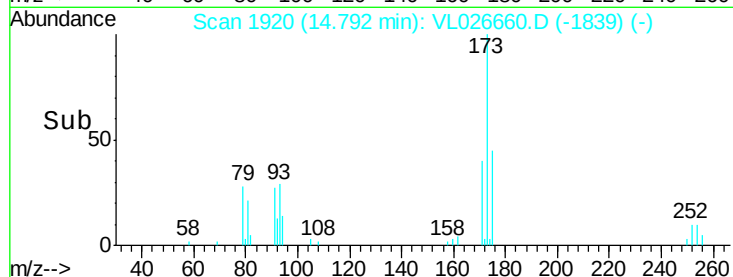
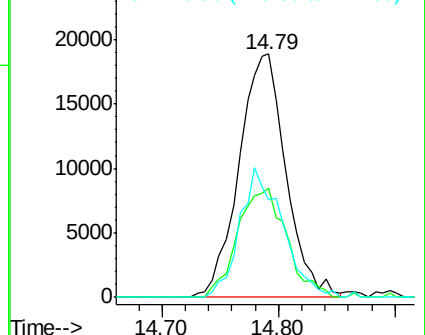
171 48.8 41.5 62.3



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: 0.29 ppbv

RT: 10.09 min Scan# 1148

Delta R.T. 0.02 min

Lab File: VL026660.D

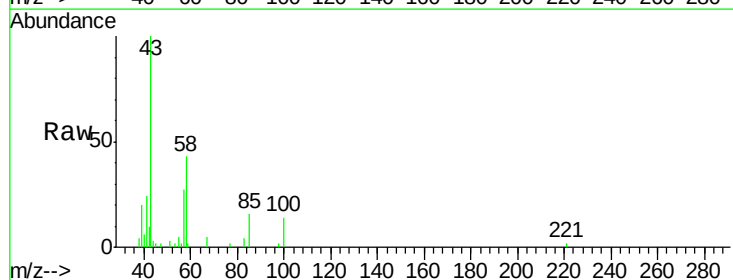
Acq: 9 Jan 2016 4:32

Tgt Ion: 43 Resp: 48033

Ion Ratio Lower Upper

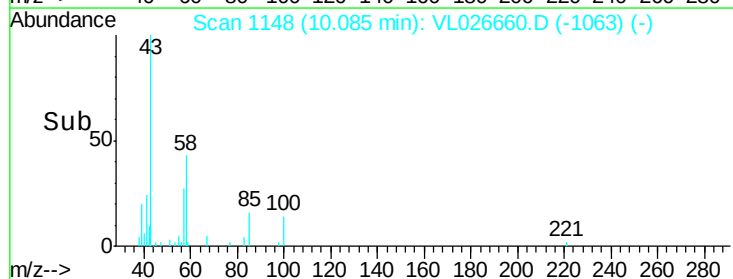
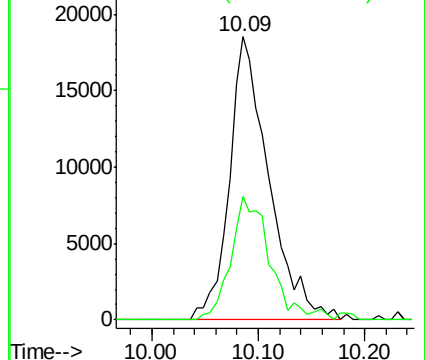
43 100

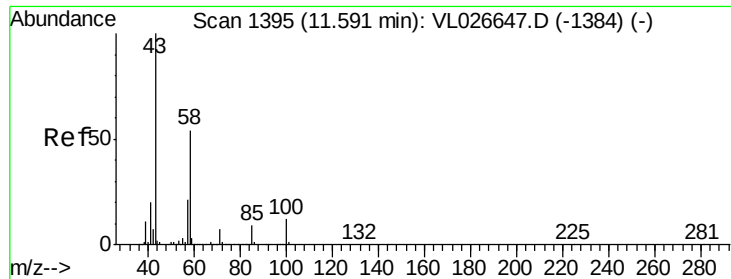
58 44.1 32.4 48.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

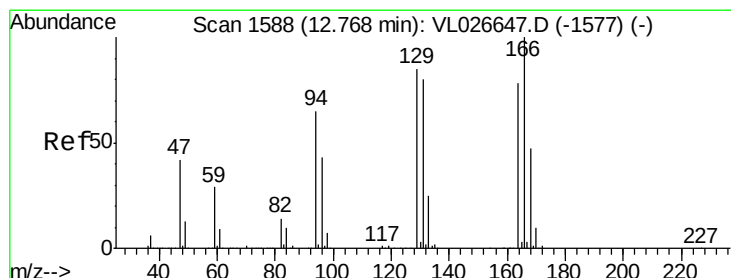
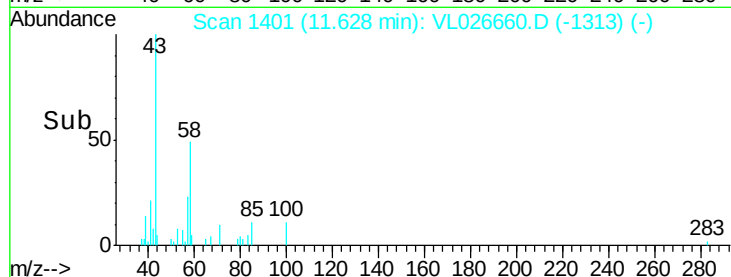
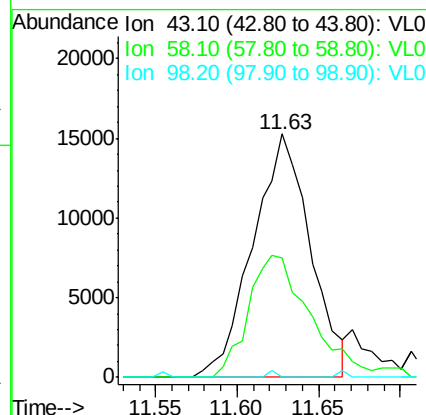
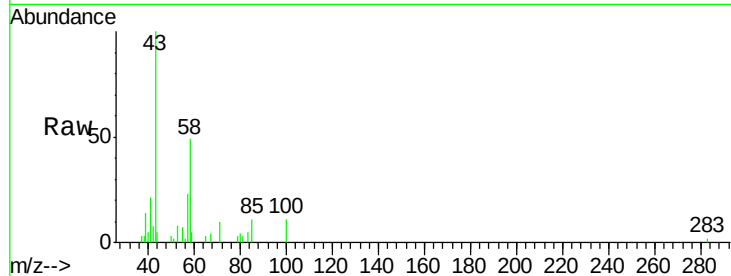




#51
2-Hexanone
Concen: 0.25 ppbv
RT: 11.63 min Scan# 1401
Delta R.T. 0.04 min
Lab File: VL026660.D
Acq: 9 Jan 2016 4:32

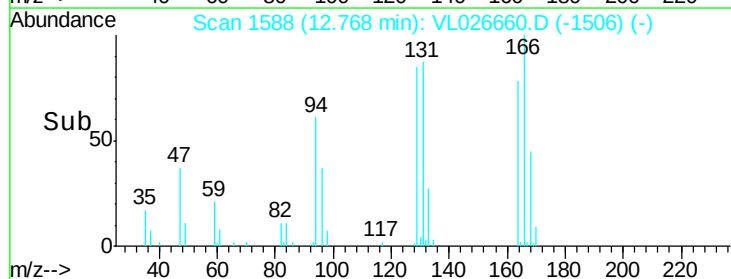
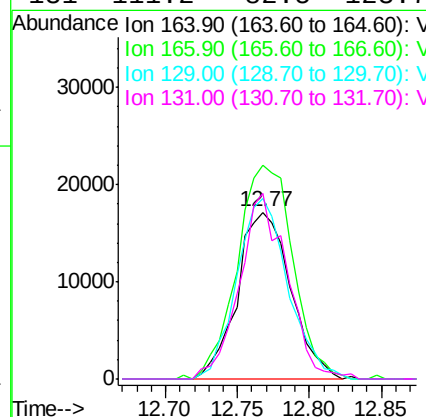
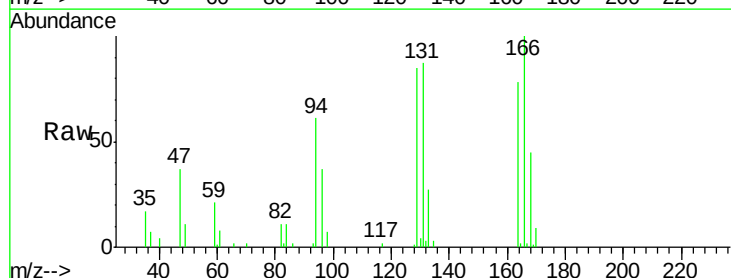
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-2

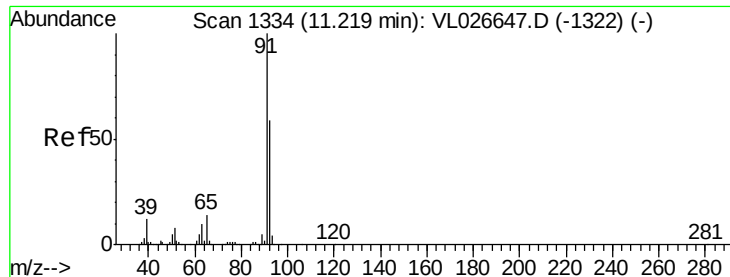
Tot Ion: 43 Resp: 37307
Ion Ratio Lower Upper
43 100
58 55.1 44.9 67.3
98 0.0 0.2 0.2#



#52
Tetrachloroethene
Concen: 0.39 ppbv
RT: 12.77 min Scan# 1588
Delta R.T. -0.00 min
Lab File: VL026660.D
Acq: 9 Jan 2016 4:32

Tgt Ion: 164 Resp: 44180
Ion Ratio Lower Upper
164 100
166 128.3 102.5 153.7
129 108.6 87.0 130.6
131 111.2 82.5 123.7





#53

Toluene

Concen: 0.30 ppbv

RT: 11.21 min Scan# 1333

Delta R.T. -0.01 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

Instrument :

MSVOA_L

ClientSampleId :

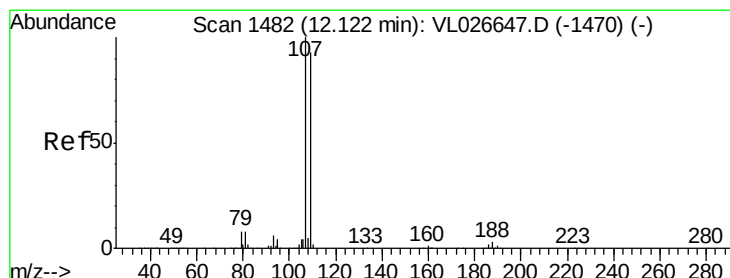
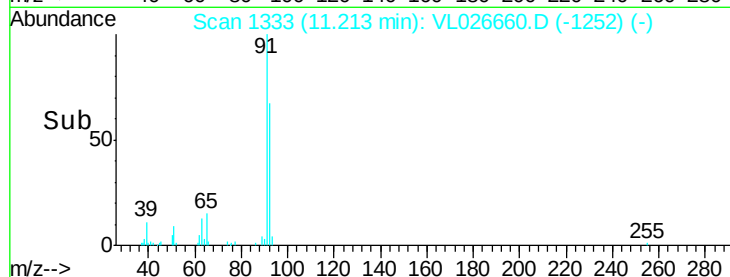
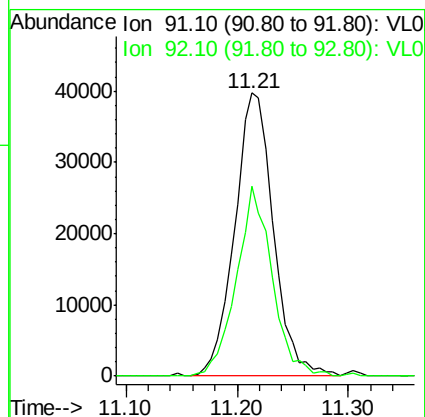
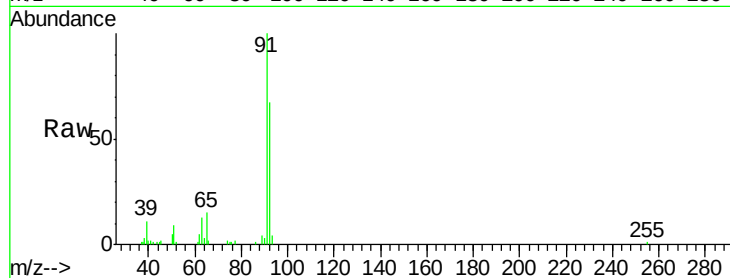
MDL-AIR-2

Tot Ion: 91 Resp: 96036

Ion Ratio Lower Upper

91 100

92 62.1 48.2 72.4



#54

1,2-Dibromoethane

Concen: 0.41 ppbv

RT: 12.12 min Scan# 1481

Delta R.T. -0.01 min

Lab File: VL026660.D

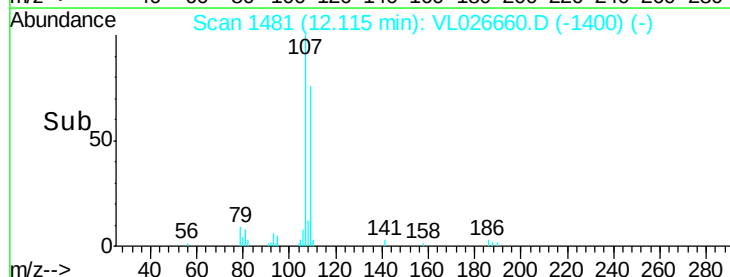
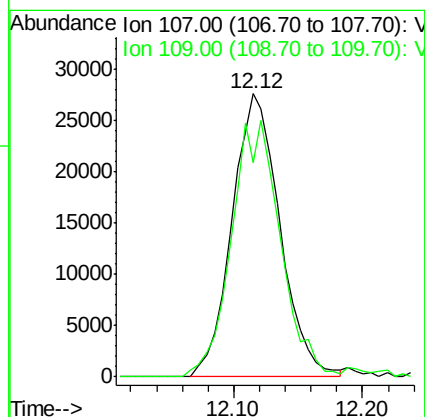
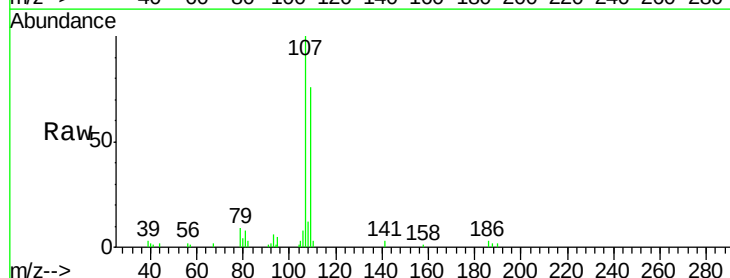
Acq: 9 Jan 2016 4:32

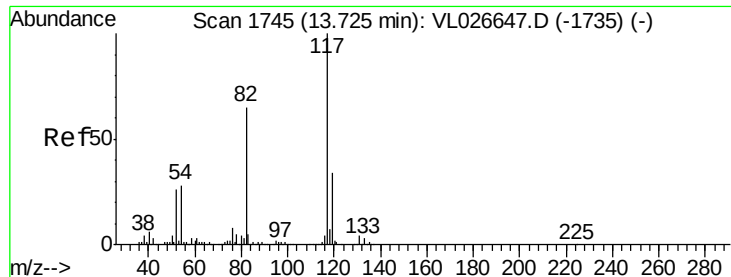
Tgt Ion: 107 Resp: 71150

Ion Ratio Lower Upper

107 100

109 74.5 74.1 111.1

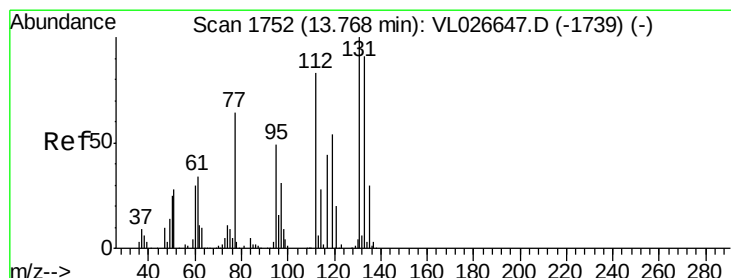
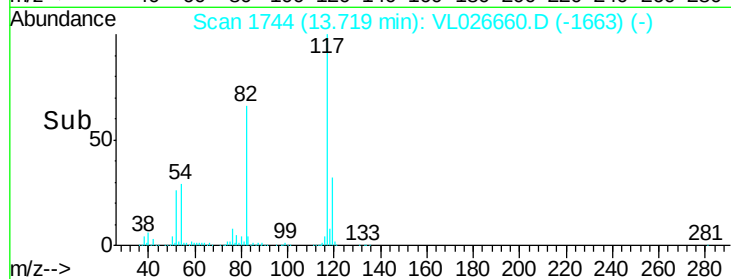
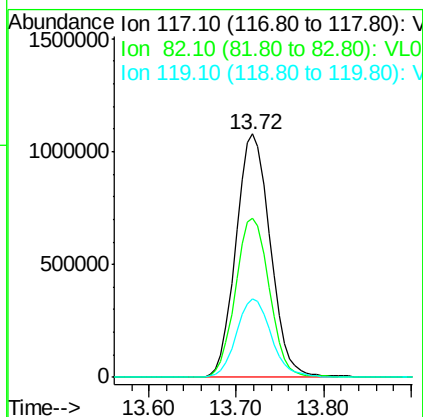
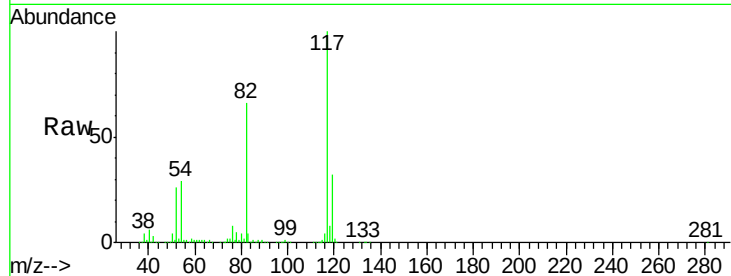




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.72 min Scan# 1744
Delta R.T. -0.01 min
Lab File: VL026660.D
Acq: 9 Jan 2016 4:32

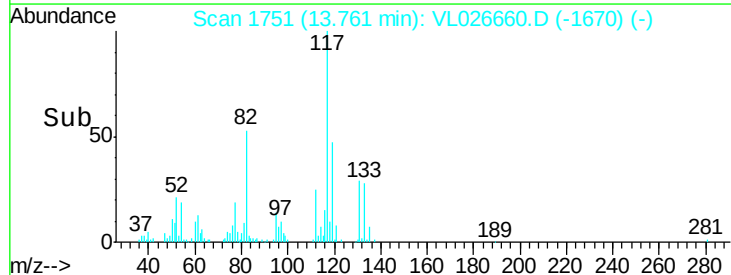
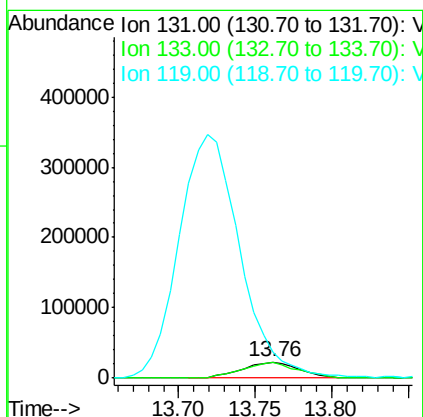
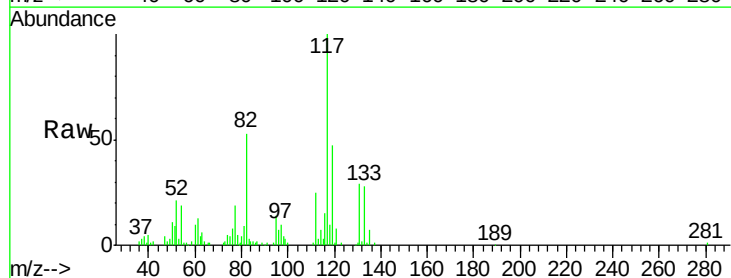
Instrument :
MSVOA_L
ClientSampled :
MDL-AIR-2

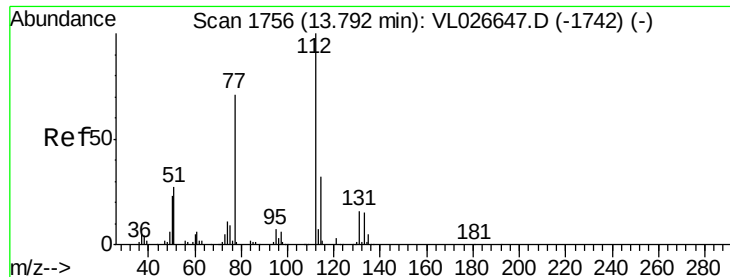
Tot Ion:117 Resp: 2952696
Ion Ratio Lower Upper
117 100
82 65.1 49.7 74.5
119 33.0 43.8 65.8#



#56
1,1,1,2-Tetrachloroethane
Concen: 0.43 ppbv
RT: 13.76 min Scan# 1751
Delta R.T. -0.01 min
Lab File: VL026660.D
Acq: 9 Jan 2016 4:32

Tgt Ion:131 Resp: 58577
Ion Ratio Lower Upper
131 100
133 97.4 76.2 114.4
119 1657.6 104.3 156.5#





#57

Chlorobenzene

Concen: 0.46 ppbv

RT: 13.79 min Scan# 1755

Delta R.T. -0.01 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-2

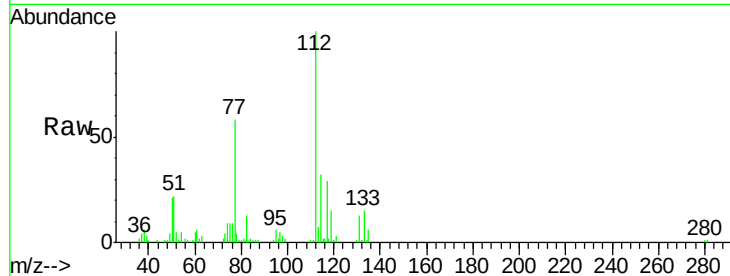
Tot Ion:112 Resp: 139959

Ion Ratio Lower Upper

112 100

77 56.1 56.9 85.3#

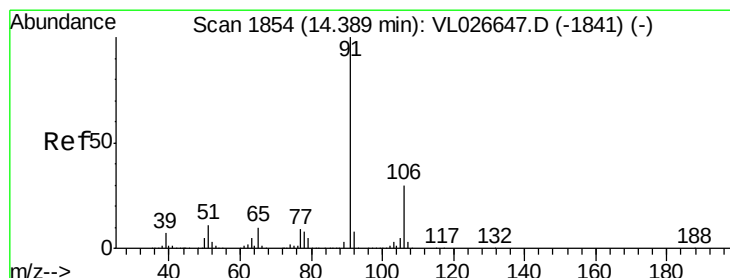
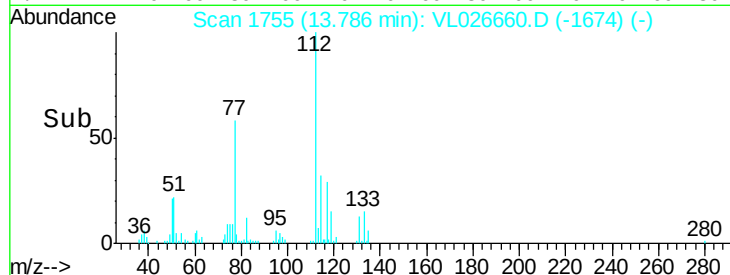
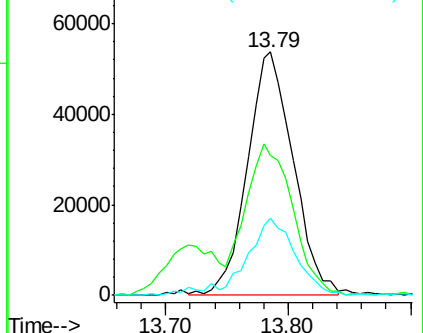
114 30.6 28.8 35.2



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: VL026660.D

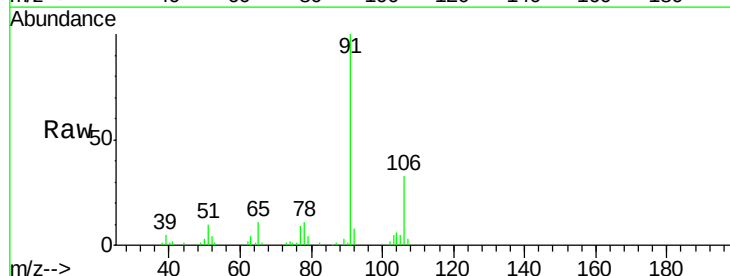
Acq: 9 Jan 2016 4:32

Tgt Ion: 91 Resp: 173064

Ion Ratio Lower Upper

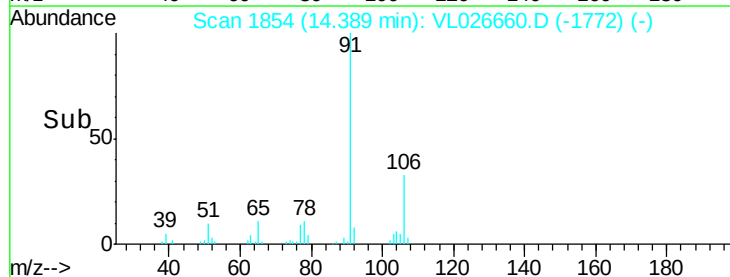
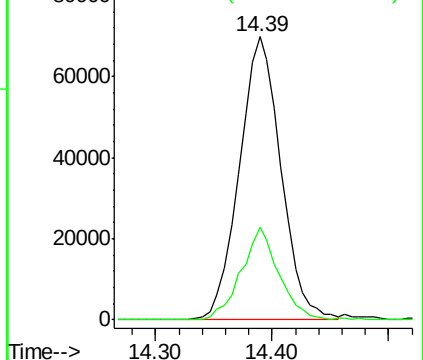
91 100

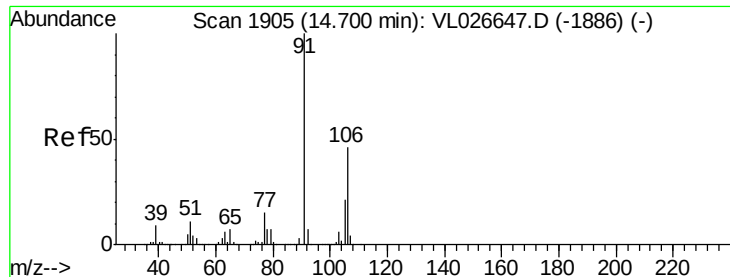
106 32.7 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 0.43 ppbv

RT: 14.69 min Scan# 1903

Delta R.T. -0.01 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

Instrument :

MSVOA_L

ClientSampleId :

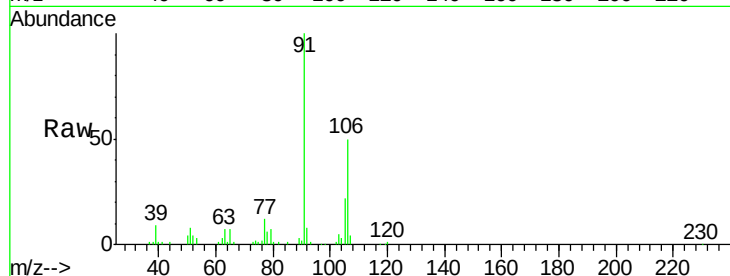
MDL-AIR-2

Tot Ion: 91 Resp: 187807

Ion Ratio Lower Upper

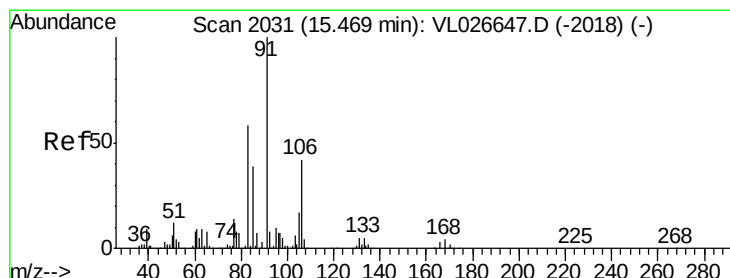
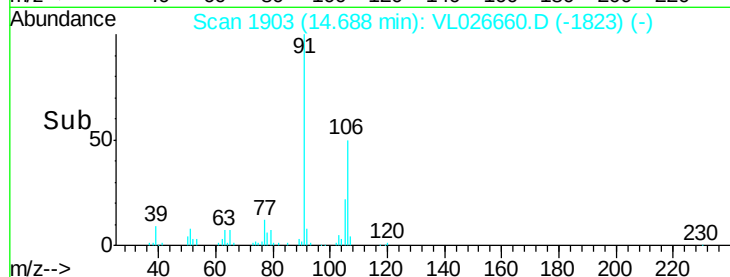
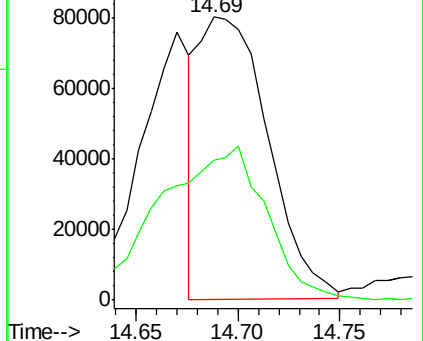
91 100

106 84.7 36.6 55.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.42 ppbv

RT: 15.47 min Scan# 2031

Delta R.T. -0.00 min

Lab File: VL026660.D

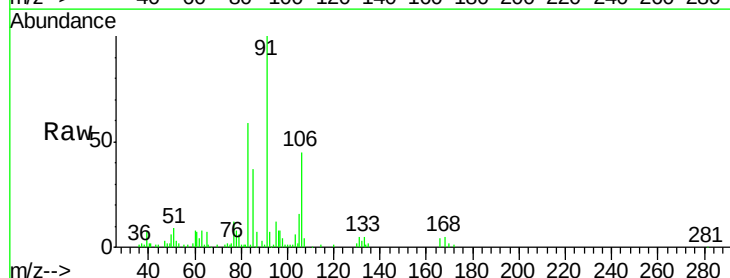
Acq: 9 Jan 2016 4:32

Tgt Ion: 91 Resp: 196539

Ion Ratio Lower Upper

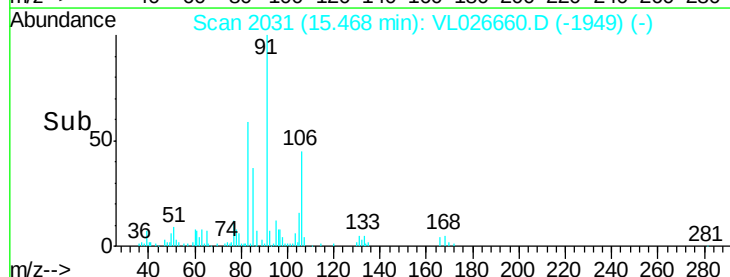
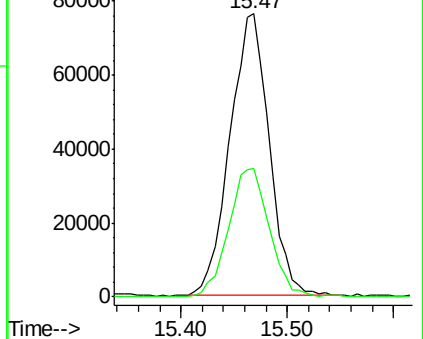
91 100

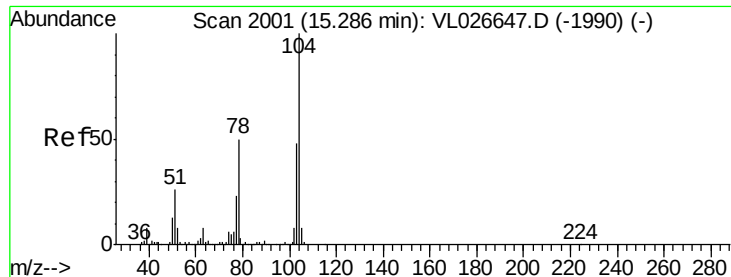
106 47.4 21.5 64.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

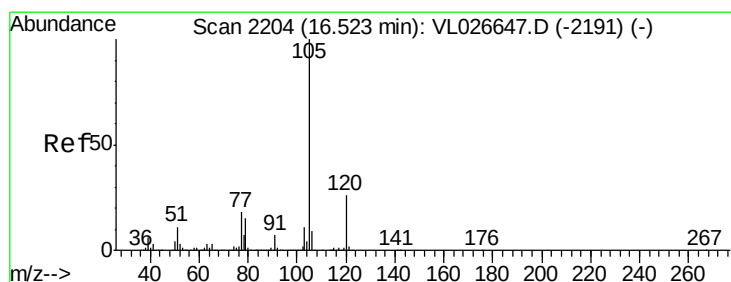
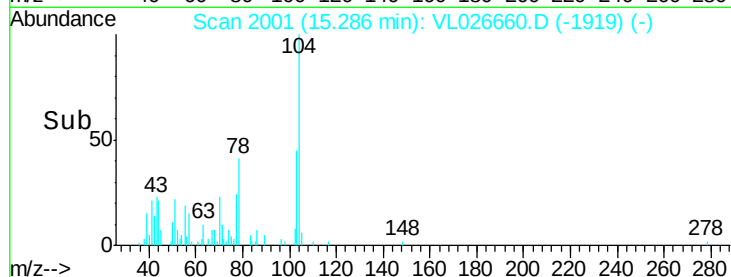
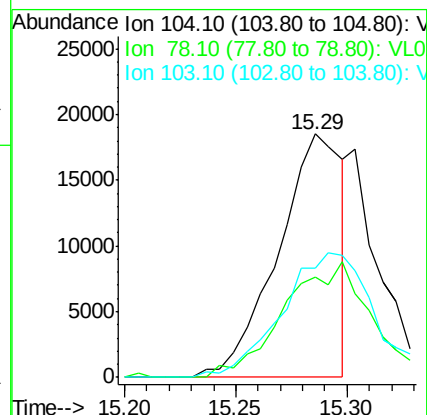
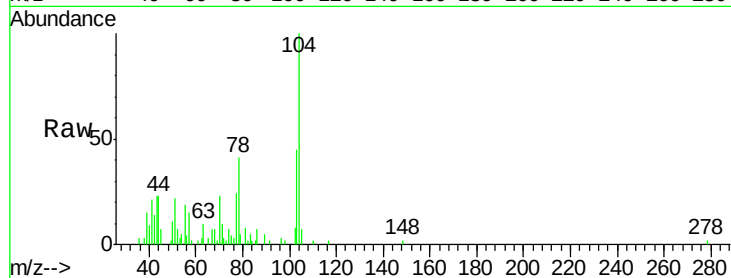




#61
Stvrene
Concen: 0.20 ppbv
RT: 15.29 min Scan# 2001
Delta R.T. -0.00 min
Lab File: VL026660.D
Acq: 9 Jan 2016 4:32

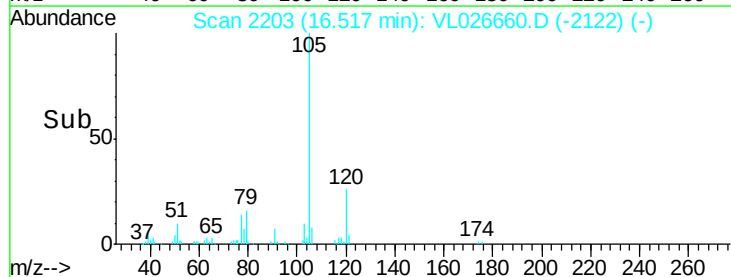
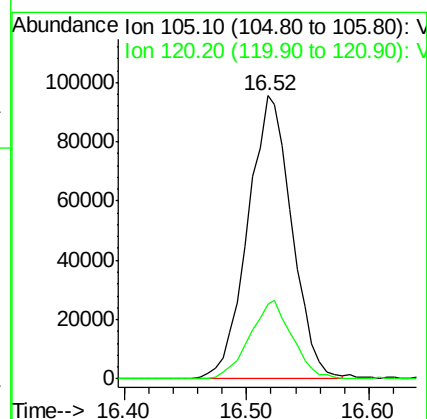
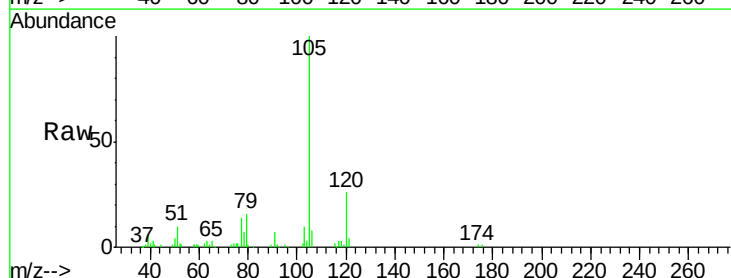
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-2

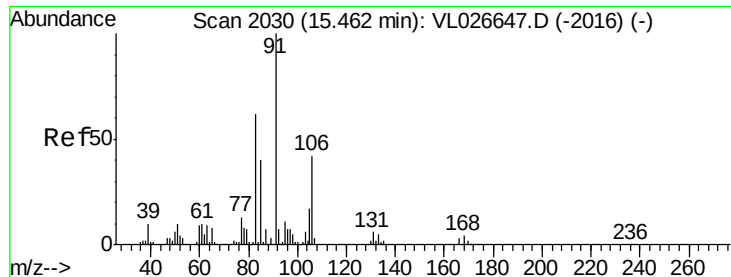
Tot Ion:104 Resp: 37271
Ion Ratio Lower Upper
104 100
78 0.0 39.6 59.4#
103 76.1 37.8 56.6#



#62
Isopropylbenzene
Concen: 0.38 ppbv
RT: 16.52 min Scan# 2203
Delta R.T. -0.01 min
Lab File: VL026660.D
Acq: 9 Jan 2016 4:32

Tgt Ion:105 Resp: 238599
Ion Ratio Lower Upper
105 100
120 27.0 20.3 30.5





#63

1,1,2,2-Tetrachloroethane

Concen: 0.44 ppbv

RT: 15.46 min Scan# 2029

Delta R.T. -0.01 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-2

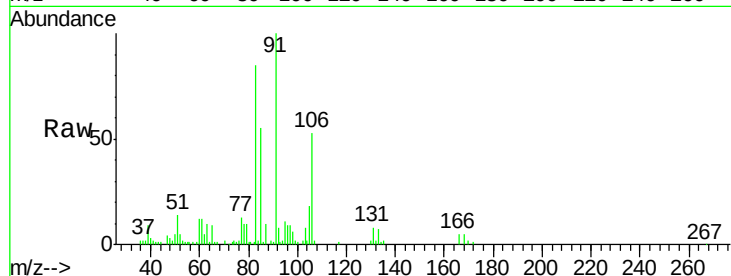
Tot Ion: 83 Resp: 152734

Ion Ratio Lower Upper

83 100

131 8.9 4.5 13.4

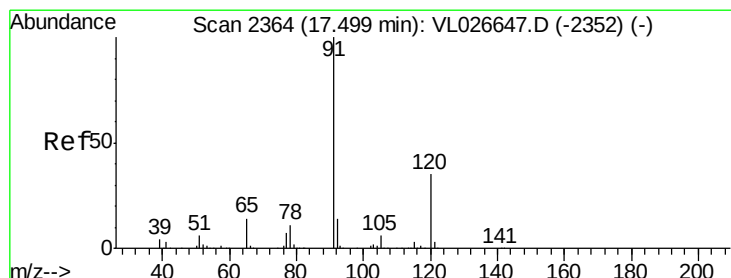
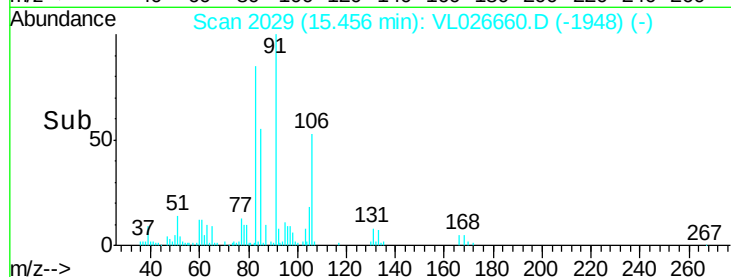
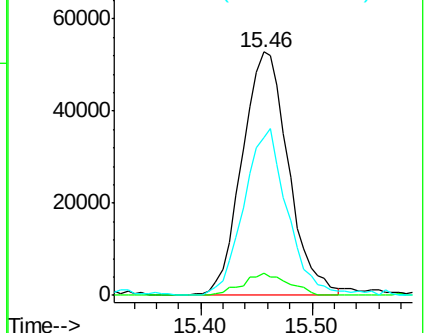
85 65.3 32.6 97.7



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 0.38 ppbv

RT: 17.49 min Scan# 2363

Delta R.T. -0.01 min

Lab File: VL026660.D

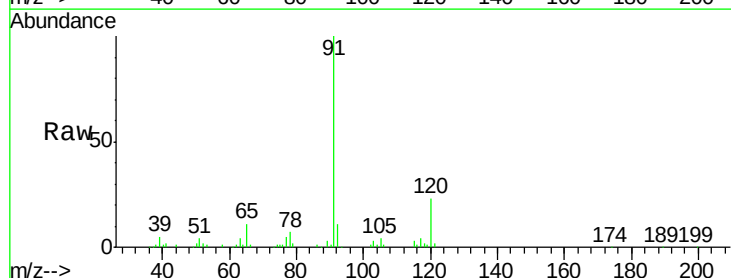
Acq: 9 Jan 2016 4:32

Tgt Ion:120 Resp: 63422

Ion Ratio Lower Upper

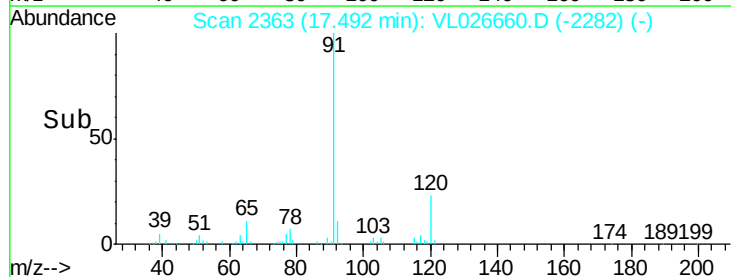
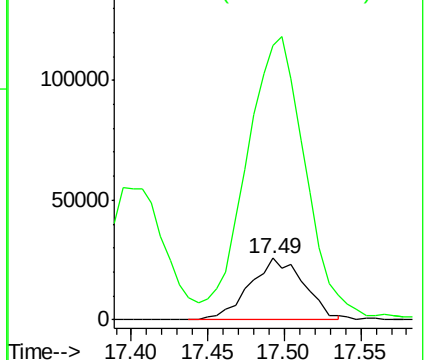
120 100

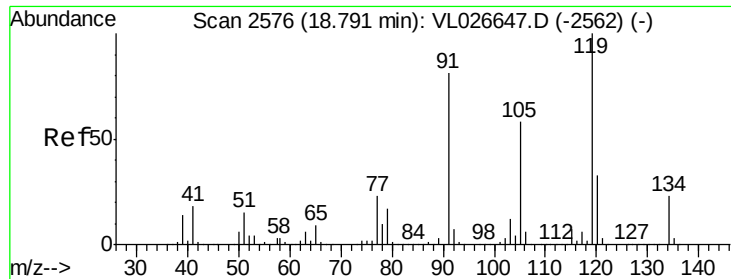
91 500.9 375.8 563.6



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

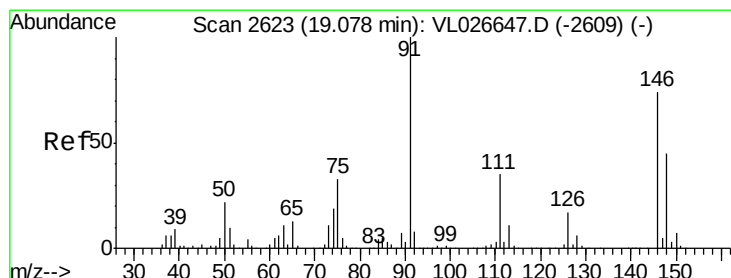
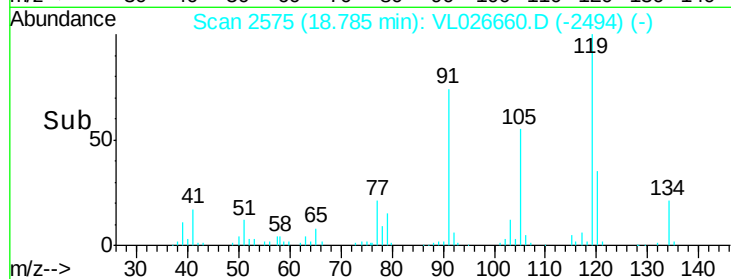
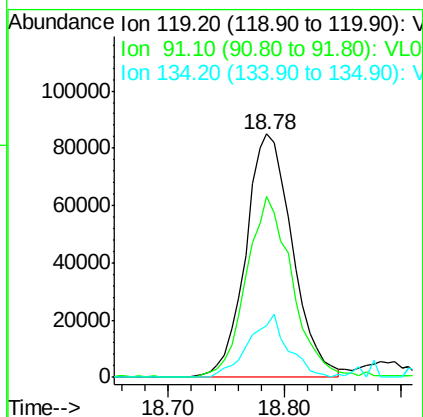
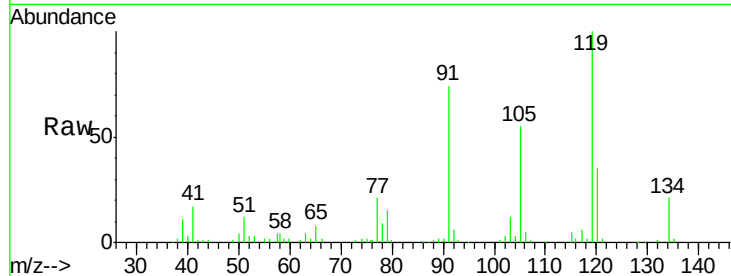




#65
 tert-Butylbenzene
 Concen: 0.41 ppbv
 RT: 18.78 min Scan# 2575
 Delta R.T. -0.01 min
 Lab File: VL026660.D
 Acq: 9 Jan 2016 4:32

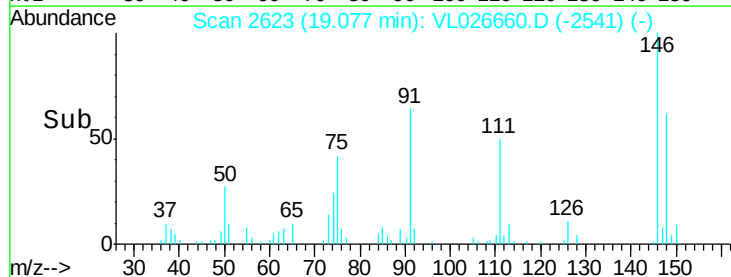
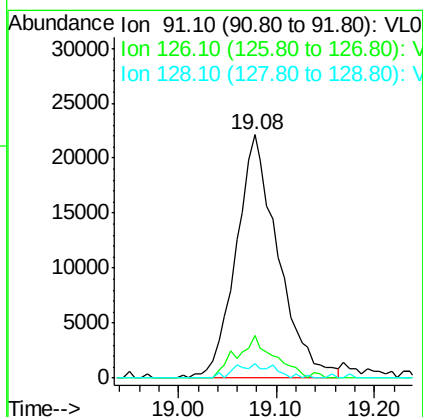
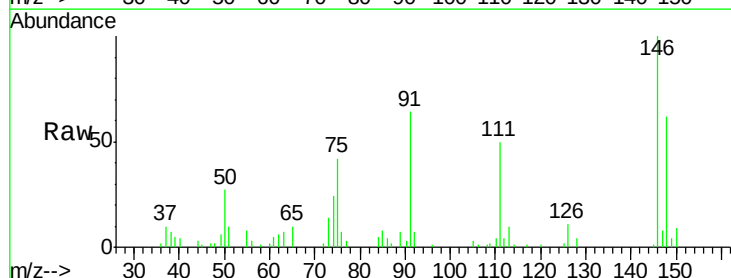
Instrument :
 MSVOA_L
 ClientSampleID :
 MDL-AIR-2

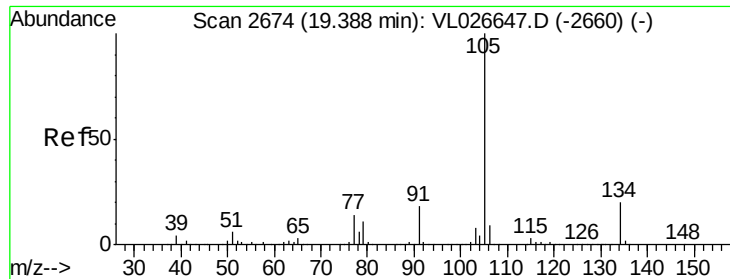
Tot Ion: 119 Resp: 235124
 Ion Ratio Lower Upper
 119 100
 91 74.5 64.8 97.2
 134 22.9 17.4 26.0



#66
 Benzyl Chloride
 Concen: 0.33 ppbv
 RT: 19.08 min Scan# 2623
 Delta R.T. -0.00 min
 Lab File: VL026660.D
 Acq: 9 Jan 2016 4:32

Tgt Ion: 91 Resp: 66212
 Ion Ratio Lower Upper
 91 100
 126 15.9 14.2 21.2
 128 5.5 4.5 6.7





#67

sec-Butylbenzene

Concen: 0.41 ppbv

RT: 19.38 min Scan# 2673

Delta R.T. -0.01 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

Instrument :

MSVOA_L

ClientSampleId :

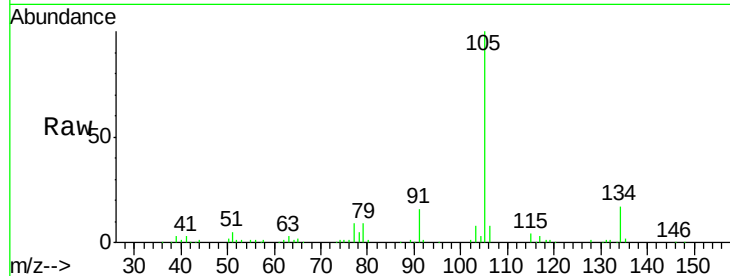
MDL-AIR-2

Tot Ion:105 Resp: 345919

Ion Ratio Lower Upper

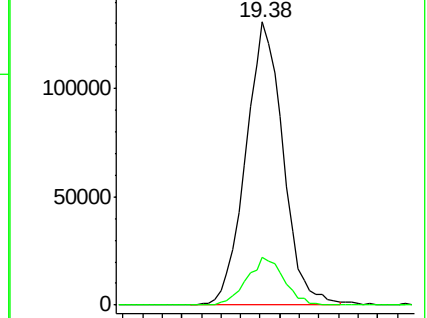
105 100

134 16.9 14.9 22.3

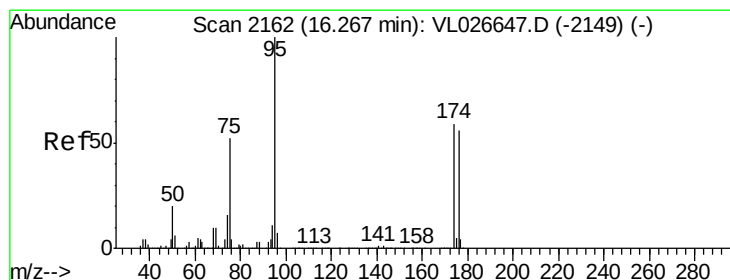
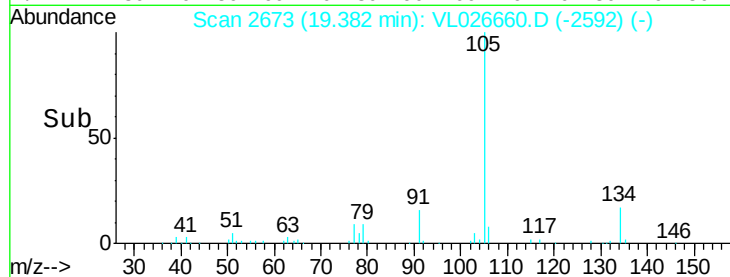


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.40 ppbv

RT: 16.26 min Scan# 2161

Delta R.T. -0.01 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

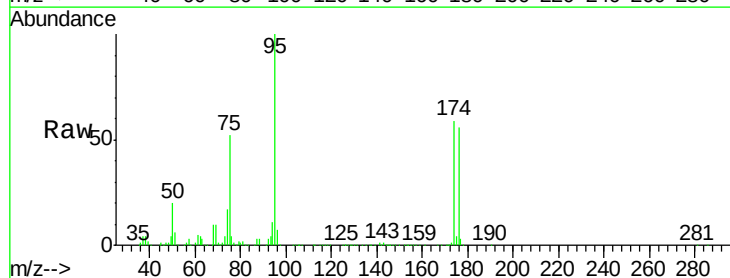
Tgt Ion: 95 Resp: 2447394

Ion Ratio Lower Upper

95 100

174 61.1 47.8 71.8

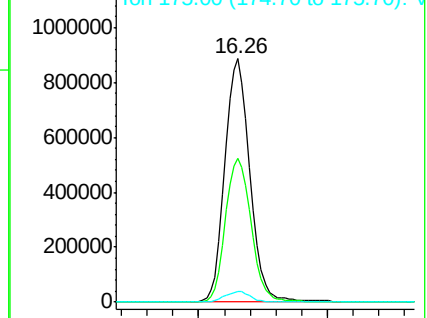
175 4.4 3.6 5.4



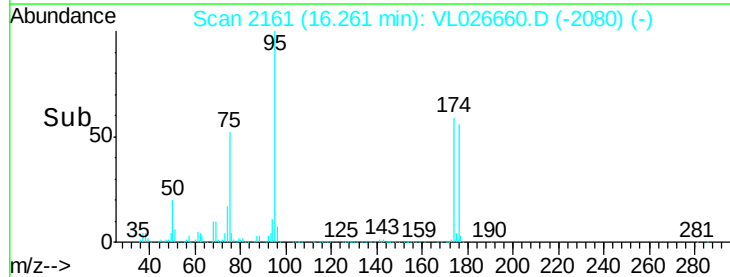
Abundance Ion 95.10 (94.80 to 95.80): VL0

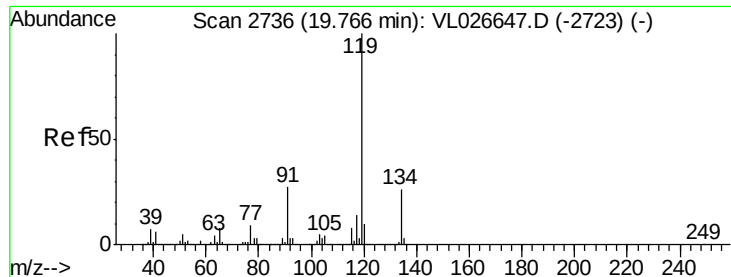
Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



Time-->

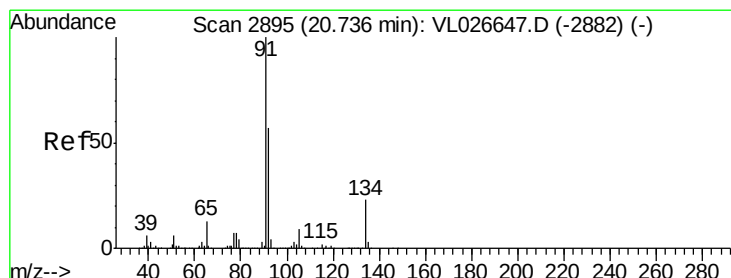
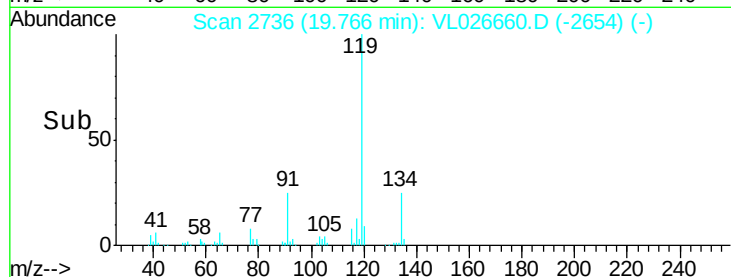
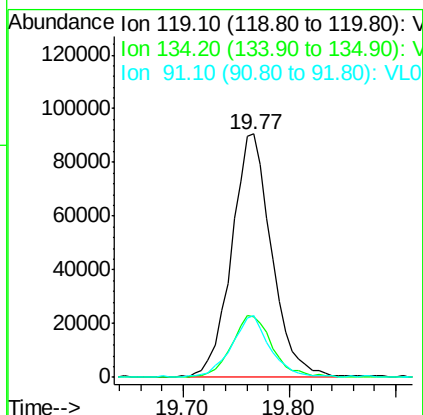
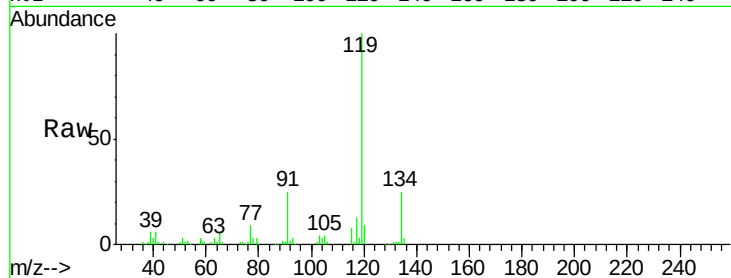




#69
 p-Isopropyltoluene
 Concen: 0.37 ppbv
 RT: 19.77 min Scan# 2736
 Delta R.T. -0.00 min
 Lab File: VL026660.D
 Acq: 9 Jan 2016 4:32

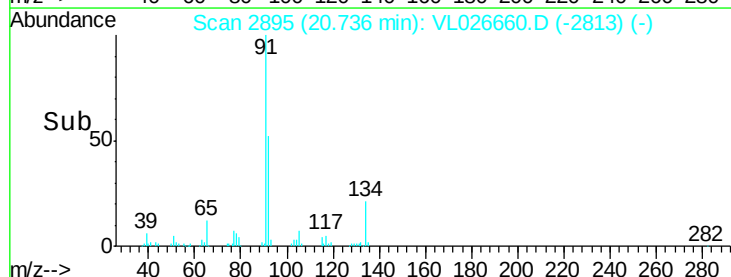
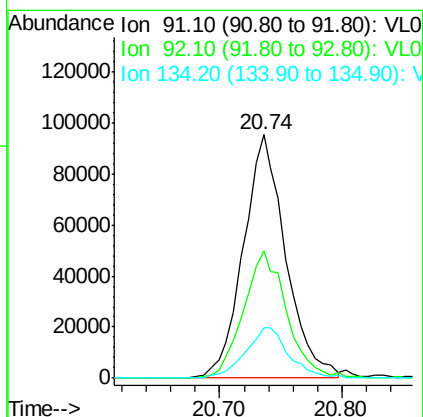
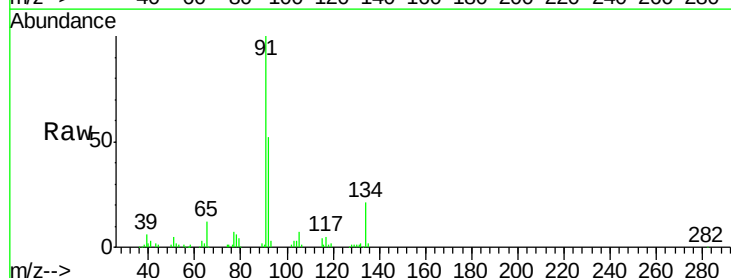
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-2

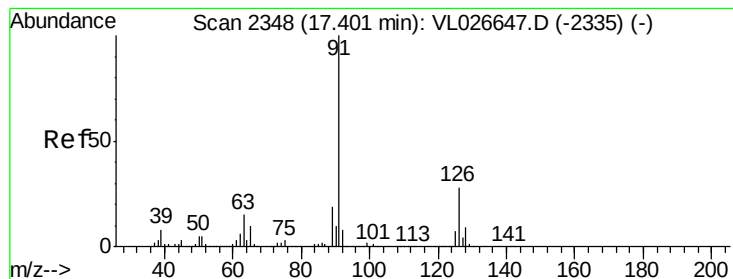
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.9	20.6	31.0
91	25.0	21.7	32.5



#70
 n-Butylbenzene
 Concen: 0.34 ppbv
 RT: 20.74 min Scan# 2895
 Delta R.T. -0.00 min
 Lab File: VL026660.D
 Acq: 9 Jan 2016 4:32

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.6	45.0	67.4
134	21.1	18.2	27.2





#71

2-Chlorotoluene

Concen: 0.32 ppbv

RT: 17.39 min Scan# 2347

Delta R.T. -0.01 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

Instrument :

MSVOA_L

ClientSampleId :

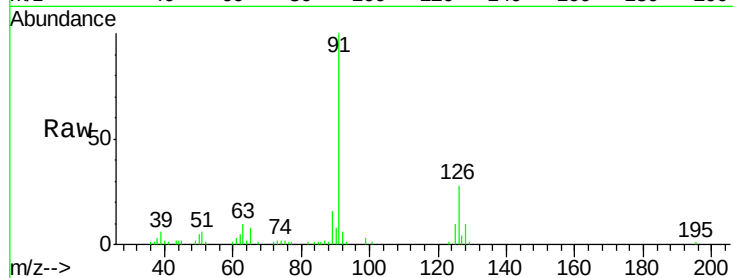
MDL-AIR-2

Tot Ion: 91 Resp: 155132

Ion Ratio Lower Upper

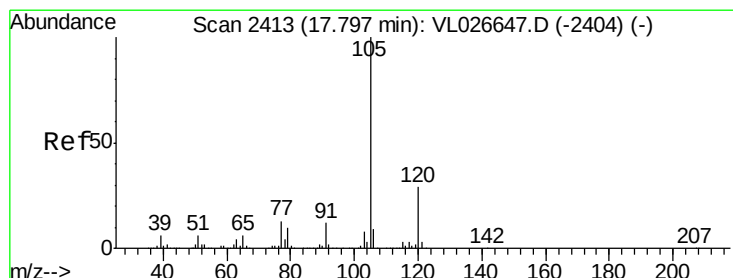
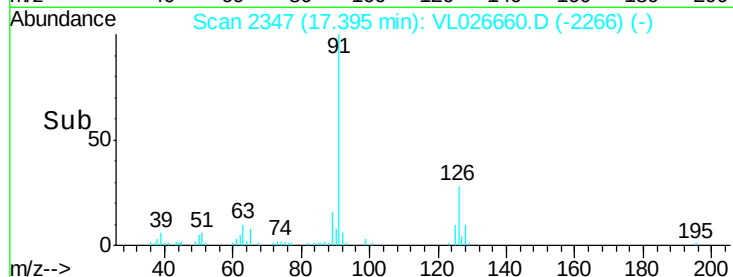
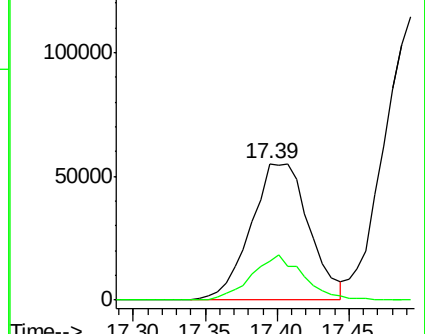
91 100

126 29.6 11.4 45.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.33 ppbv

RT: 17.80 min Scan# 2413

Delta R.T. -0.00 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

Tgt Ion:105 Resp: 175770

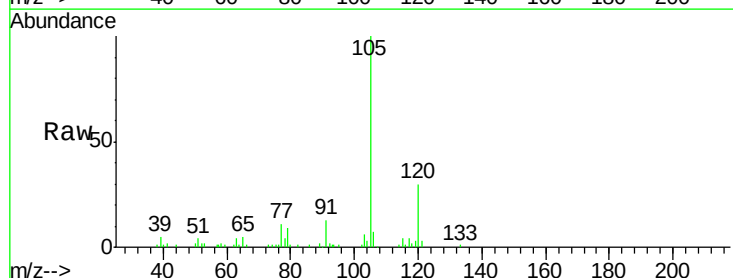
Ion Ratio Lower Upper

105 100

120 31.0 23.7 35.5

91 14.8 9.7 14.5#

77 13.2 10.3 15.5

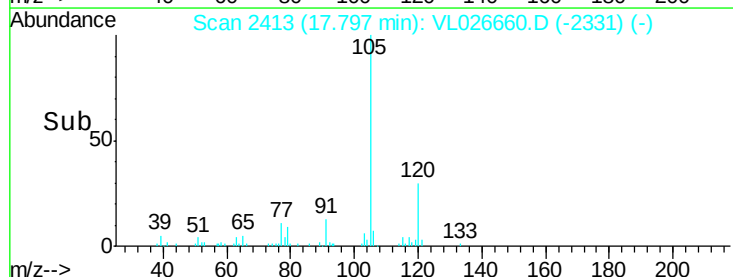
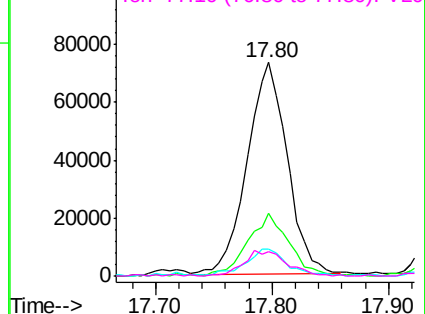


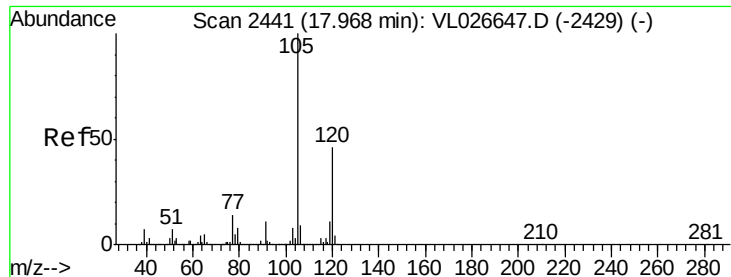
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 0.37 ppbv

RT: 17.96 min Scan# 2440

Delta R.T. -0.01 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

Instrument :

MSVOA_L

ClientSampleId :

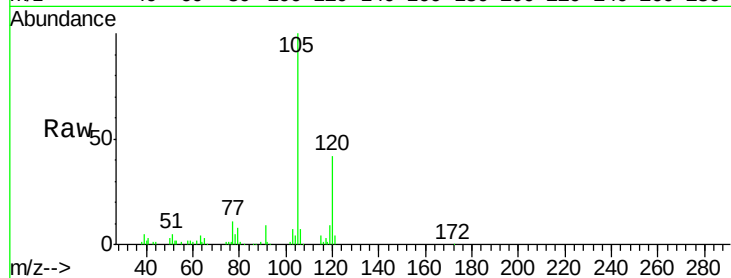
MDL-AIR-2

Tot Ion:105 Resp: 183766

Ion Ratio Lower Upper

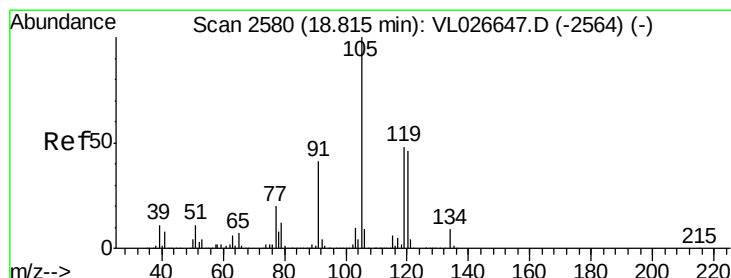
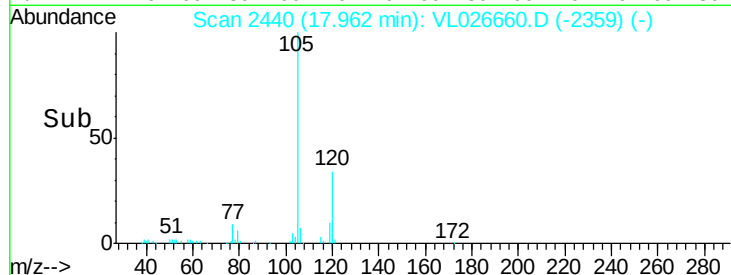
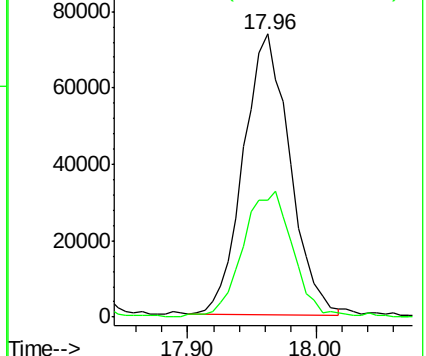
105 100

120 40.7 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: VL026660.D

Acq: 9 Jan 2016 4:32

Tgt Ion:105 Resp: 227187

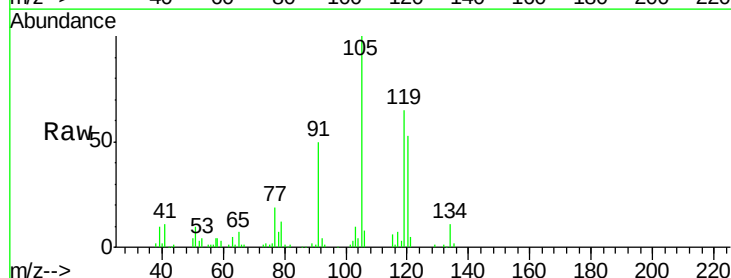
Ion Ratio Lower Upper

105 100

120 52.5 36.6 55.0

91 49.6 32.5 48.7#

77 18.3 15.7 23.5

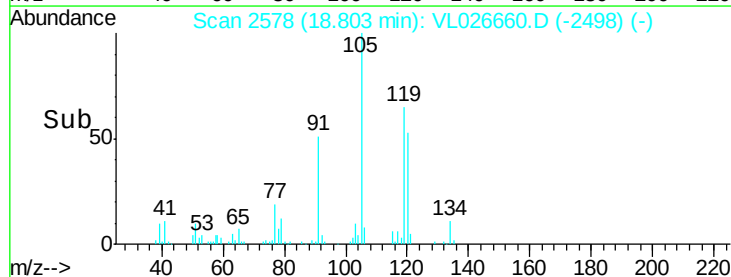
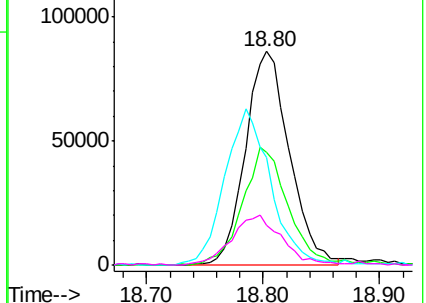


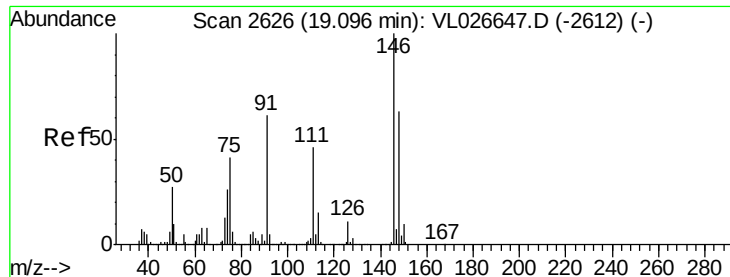
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

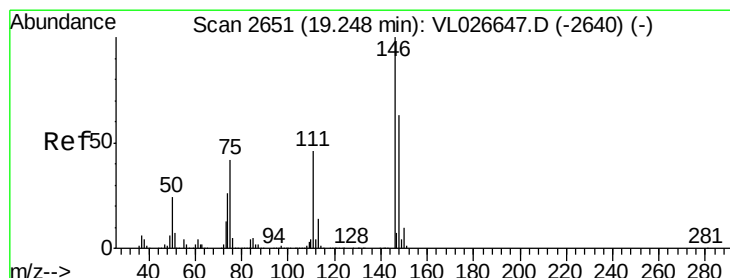
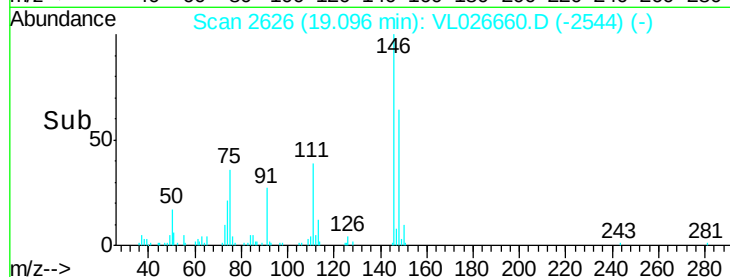
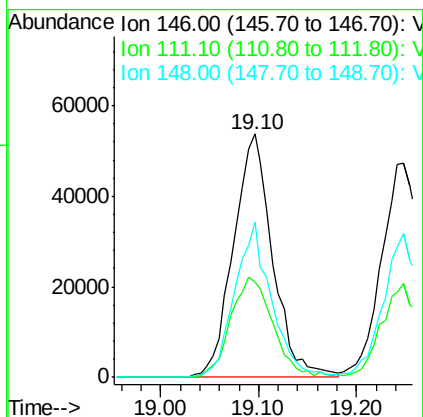
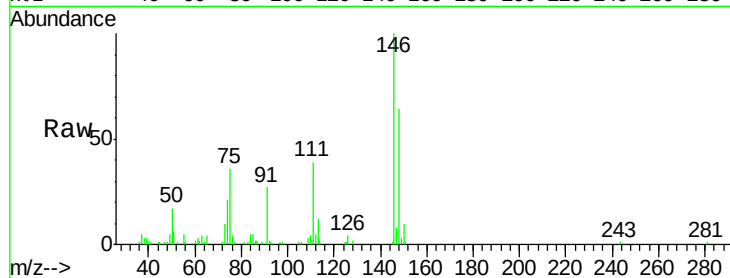




#75
 1,3-Dichlorobenzene
 Concen: 0.46 ppbv
 RT: 19.10 min Scan# 2626
 Delta R.T. -0.00 min
 Lab File: VL026660.D
 Acq: 9 Jan 2016 4:32

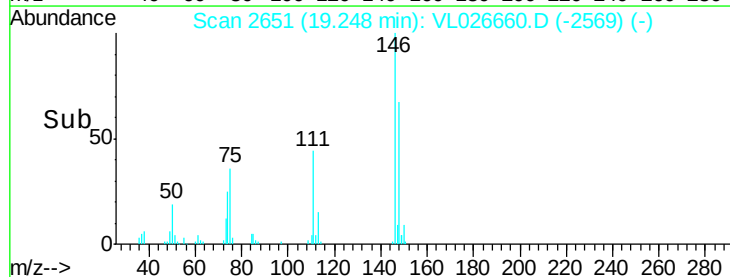
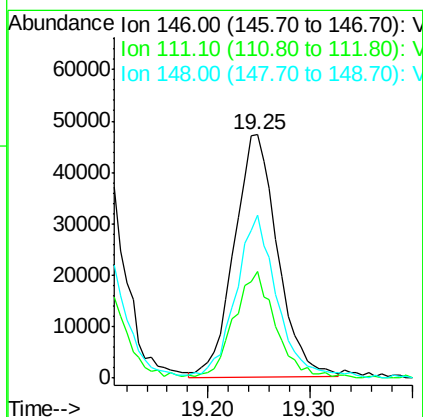
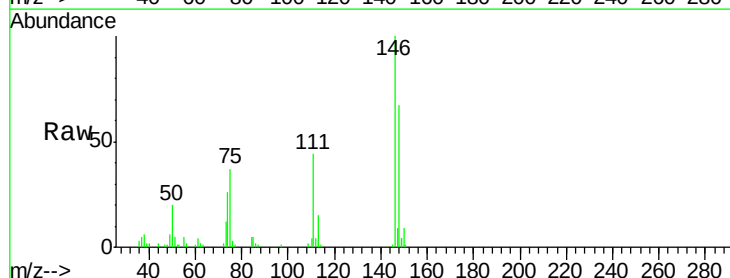
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-2

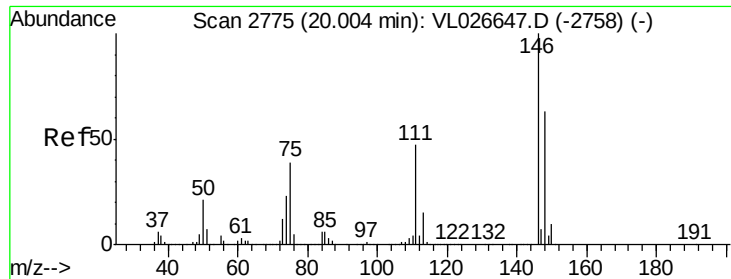
Tot Ion:146 Resp: 149581
 Ion Ratio Lower Upper
 146 100
 111 44.0 22.9 68.5
 148 59.5 31.6 95.0



#76
 1,4-Dichlorobenzene
 Concen: 0.42 ppbv
 RT: 19.25 min Scan# 2651
 Delta R.T. -0.00 min
 Lab File: VL026660.D
 Acq: 9 Jan 2016 4:32

Tgt Ion:146 Resp: 139175
 Ion Ratio Lower Upper
 146 100
 111 42.8 22.3 66.8
 148 65.2 31.9 95.9





#77

1,2-Dichlorobenzene

Concen: 0.43 ppbv

RT: 20.00 min Scan# 2775

Delta R.T. -0.00 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-2

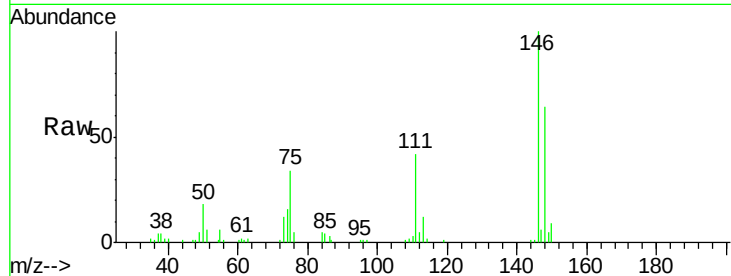
Tot Ion:146 Resp: 142432

Ion Ratio Lower Upper

146 100

111 45.6 23.7 71.1

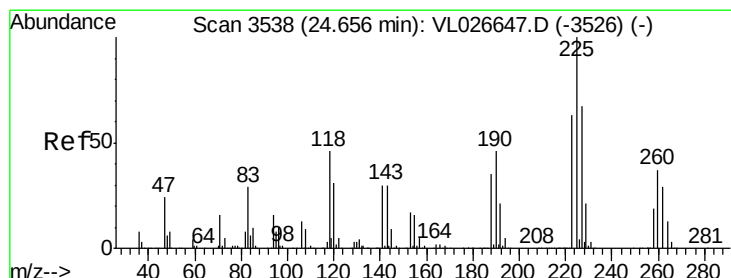
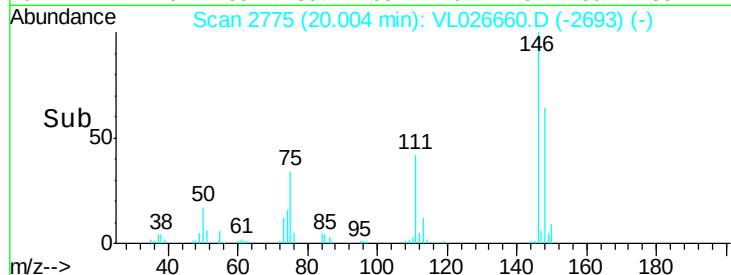
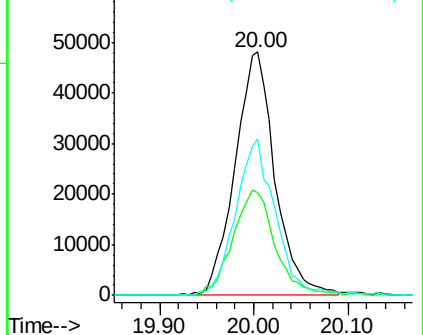
148 64.2 31.1 93.5



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: 0.41 ppbv

RT: 24.65 min Scan# 3537

Delta R.T. -0.01 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

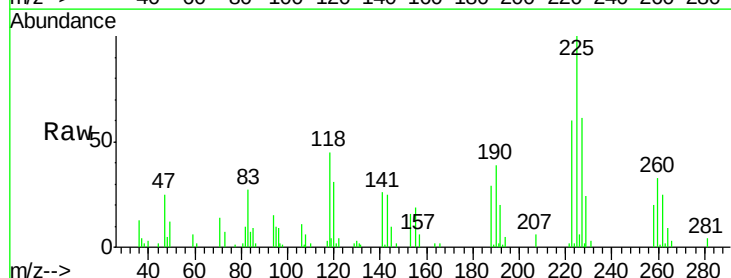
Tgt Ion:225 Resp: 54969

Ion Ratio Lower Upper

225 100

223 60.1 50.1 75.1

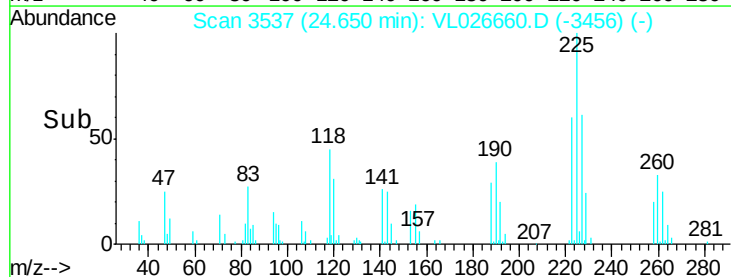
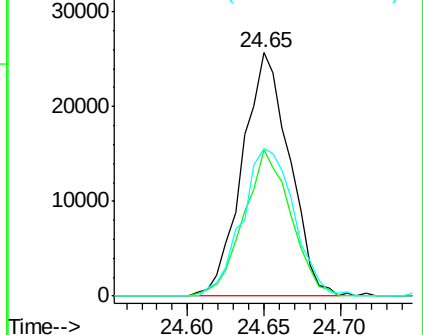
227 67.0 51.1 76.7

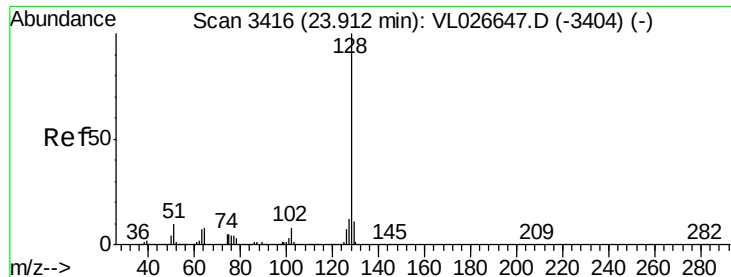


Abundance Ion 224.90 (224.60 to 225.60): V

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# 3417

Delta R.T. 0.01 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-2

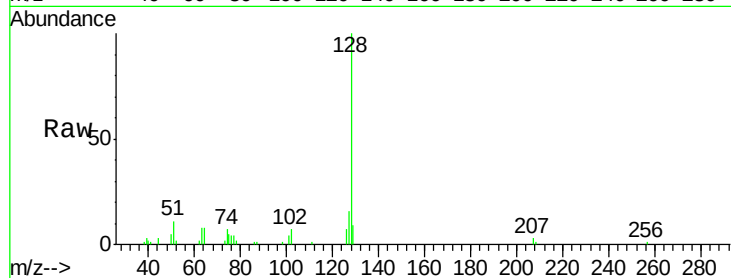
Tot Ion:128 Resp: 88882

Ion Ratio Lower Upper

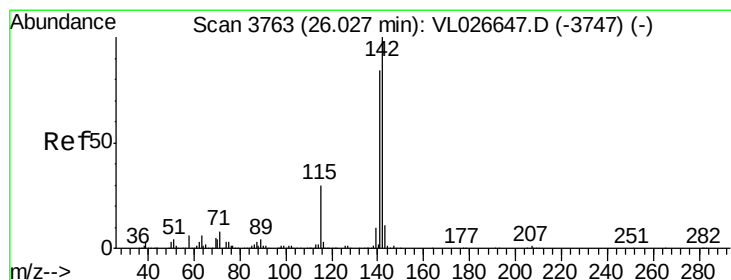
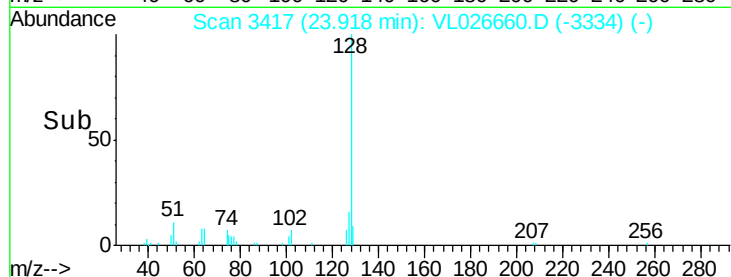
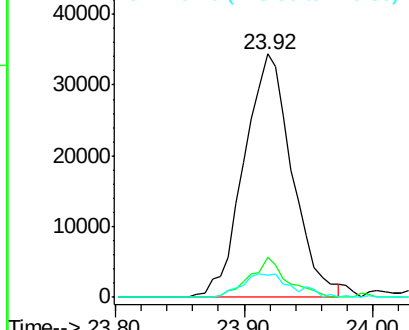
128 100

127 16.4 9.8 14.8#

129 9.0 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: 26.04 min Scan# 3765

Delta R.T. 0.01 min

Lab File: VL026660.D

Acq: 9 Jan 2016 4:32

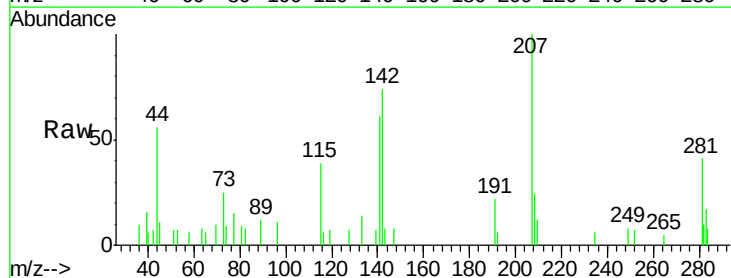
Tgt Ion:142 Resp: 17487

Ion Ratio Lower Upper

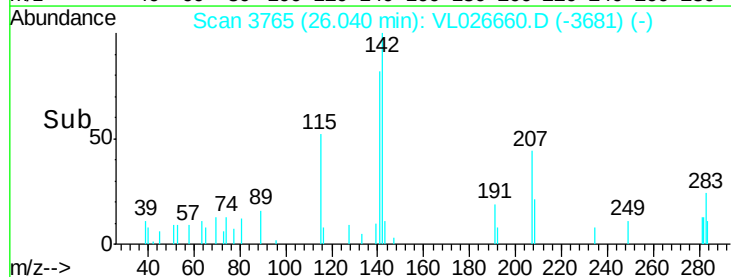
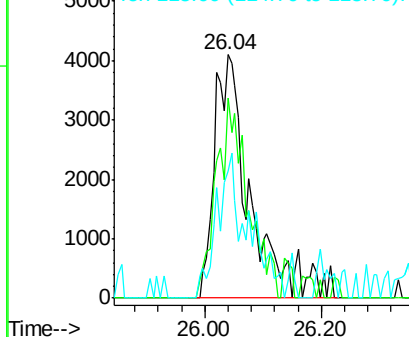
142 100

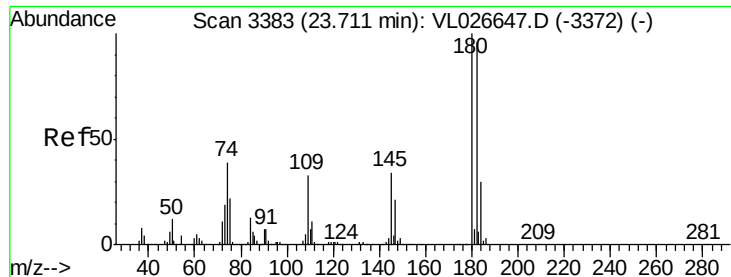
141 79.0 67.0 100.6

115 52.4 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: 0.31 ppbv
 RT: 23.72 min Scan# 3384
 Delta R.T. 0.01 min
 Lab File: VL026660.D
 Acq: 9 Jan 2016 4:32

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-2

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.8	75.4	113.0
184	32.5	24.1	36.1

