

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032519\
 Data File : VL033444.D
 Acq On : 25 Mar 2019 20:12
 Operator : SY/AP
 Sample : K1560-14 1 PPB
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT1-2019

Quant Time: Mar 26 05:19:29 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 25 16:04:49 2019

QLast Update : Mon Mar 25 16:04:49 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	784932	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1830322	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1814749	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1397829	9.83	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.30%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.07	85	118379	1.034	ppbv	98
3) Chlorodifluoromethane	3.01	51	95802	1.060	ppbv	100
4) Chloromethane	3.17	50	48328	1.011	ppbv	92
5) Vinyl Chloride	3.29	62	50007	1.064	ppbv	94
6) Bromomethane	3.51	94	32693	1.083	ppbv	95
7) Chloroethane	3.60	64	17394	0.995	ppbv	92
8) Dichlorotetrafluoroethane	3.22	85	131833	1.081	ppbv	100
9) Propene	3.03	41	38309	1.009	ppbv	97
10) Heptane	8.24	43	92378	0.971	ppbv	99
11) Trichlorofluoromethane	4.00	101	145152	1.029	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.55	101	99888	1.054	ppbv	97
13) Ethanol	3.65	45	15001	1.675	ppbv	67
14) Bromoethene	3.79	108	38720	1.024	ppbv	98
15) Acetone	3.90	43	98069	1.039	ppbv	98
16) 1,3-Butadiene	3.36	39	31570	0.843	ppbv #	63
17) tert-Butyl alcohol	4.36	59	8735	0.503	ppbv #	74
18) 1,1-Dichloroethene	4.35	96	42575	1.046	ppbv	96
19) Isopropyl Alcohol	4.03	45	66932	1.121	ppbv #	97
20) Methylene Chloride	4.40	84	41145	1.027	ppbv	93
21) Allyl Chloride	4.48	41	59296	0.994	ppbv	98
22) trans-1,2-Dichloroethene	4.96	96	19944	0.470	ppbv	87
23) Vinyl Acetate	5.15	43	129141	0.961	ppbv #	98
24) 1,1-Dichloroethane	5.09	63	100317	0.983	ppbv	97
25) Ethyl Acetate	5.77	43	172330	0.984	ppbv	99
26) Hexane	5.78	57	79453	1.020	ppbv	96
27) Carbon Disulfide	4.62	76	85988	0.929	ppbv	98
28) Methyl tert-Butyl Ether	5.12	73	109686	0.978	ppbv	97
29) Chloroform	5.84	83	131729	0.987	ppbv	99
30) Cyclohexane	7.25	84	56939	0.924	ppbv	97
31) cis-1,2-Dichloroethene	5.64	61	72900	0.942	ppbv	91
32) 1,1,1-Trichloroethane	6.62	97	128242	1.009	ppbv	97
34) 2-Butanone	5.33	43	108581	0.987	ppbv	100
35) Carbon Tetrachloride	7.13	117	130885	1.097	ppbv	97
36) Benzene	7.00	78	151450	0.986	ppbv	97
37) 1,2-Dichloroethane	6.41	62	100221	0.974	ppbv	98
38) Trichloroethene	7.96	130	59369	1.027	ppbv	95
39) 1,2-Dichloropropane	7.73	63	59181	0.984	ppbv	97
40) 1,4-Dioxane	7.97	88	5901	0.275	ppbv #	1
41) Tetrahydrofuran	6.16	42	55307	0.914	ppbv	100
42) Bromodichloromethane	7.91	83	132084	0.942	ppbv	96
43) Methyl Methacrylate	8.14	69	55425	0.889	ppbv	96

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Quant Time: Mar 26 05:19:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 25 16:04:49 2019
 QLast Update : Mon Mar 25 16:04:49 2019
 Response via : Initial Calibration

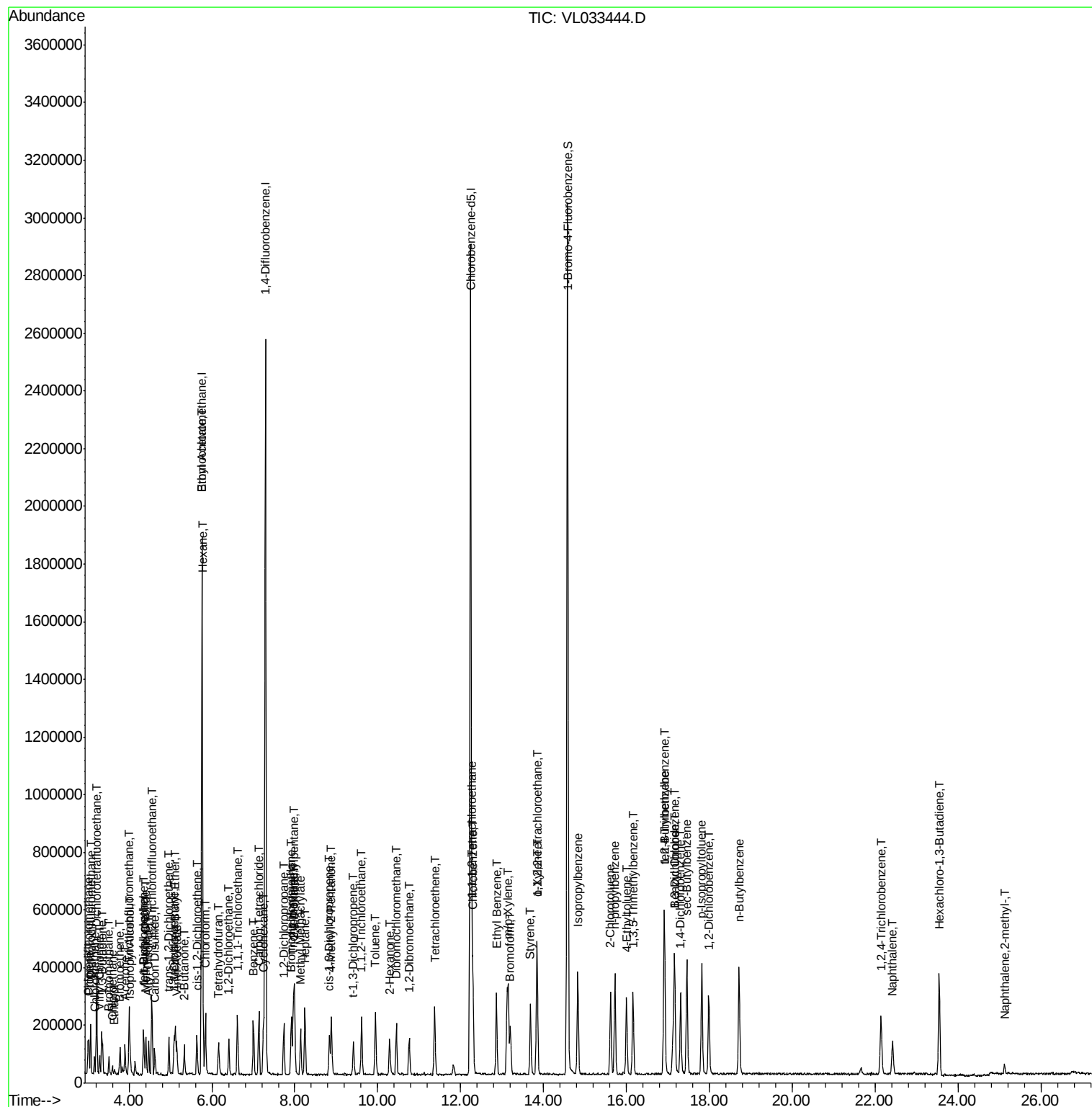
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	265429	0.989	ppbv	97
45) t-1,3-Dichloropropene	9.41	75	63559	0.830	ppbv	96
46) cis-1,3-Dichloropropene	8.83	75	75058	0.839	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	67544	0.989	ppbv	98
48) Dibromochloromethane	10.45	129	105567	0.916	ppbv	97
49) Bromoform	13.20	173	89864	0.816	ppbv	97
50) 4-Methyl-2-Pentanone	8.88	43	153076	0.951	ppbv	98
51) 2-Hexanone	10.28	43	40957	0.341	ppbv #	4
52) Tetrachloroethene	11.37	164	33558	0.579	ppbv	91
53) Toluene	9.95	91	158686	0.889	ppbv	99
54) 1,2-Dibromoethane	10.76	107	99685	0.933	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	80291	0.965	ppbv #	1
57) Chlorobenzene	12.30	112	145214	1.031	ppbv #	90
58) Ethyl Benzene	12.86	91	235860	0.973	ppbv	93
59) m/p-Xylene	13.15	91	190741	0.881	ppbv #	100
60) o-Xylene	13.85	91	204943	0.979	ppbv	99
61) Styrene	13.69	104	132163	0.920	ppbv	99
62) Isopropylbenzene	14.82	105	287024	0.968	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.83	83	153479	0.996	ppbv	99
64) n-propylbenzene	15.72	120	69017	0.918	ppbv	88
65) tert-Butylbenzene	16.90	119	250578	0.959	ppbv	96
66) Benzyl Chloride	17.16	91	87023	0.716	ppbv	100
67) sec-Butylbenzene	17.46	105	360348	0.970	ppbv	99
69) p-Isopropyltoluene	17.82	119	287665	0.951	ppbv	98
70) n-Butylbenzene	18.71	91	297355	0.928	ppbv	99
71) 2-Chlorotoluene	15.62	91	213402	0.947	ppbv	98
72) 4-Ethyltoluene	16.00	105	215905	0.918	ppbv	98
73) 1,3,5-Trimethylbenzene	16.15	105	120184	0.534	ppbv	96
74) 1,2,4-Trimethylbenzene	16.93	105	228976	0.949	ppbv	93
75) 1,3-Dichlorobenzene	17.16	146	144462	0.968	ppbv	98
76) 1,4-Dichlorobenzene	17.31	146	137431	0.946	ppbv	98
77) 1,2-Dichlorobenzene	17.99	146	135131	0.955	ppbv	96
78) Hexachloro-1,3-Butadiene	23.55	225	91697	0.979	ppbv	98
79) Naphthalene	22.41	128	55968	0.271	ppbv	97
80) Naphthalene,2-methyl-	25.12	142	17110	0.247	ppbv	95
81) 1,2,4-Trichlorobenzene	22.14	180	45830	0.400	ppbv #	12

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033444.D

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Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT1-2019

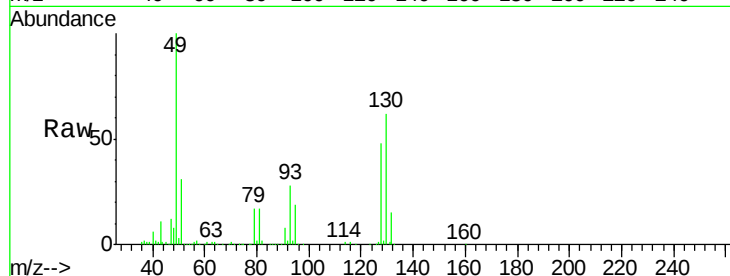
Tgt Ion: 49 Resp: 784932

Ion Ratio Lower Upper

49 100

128 47.5 24.0 72.0

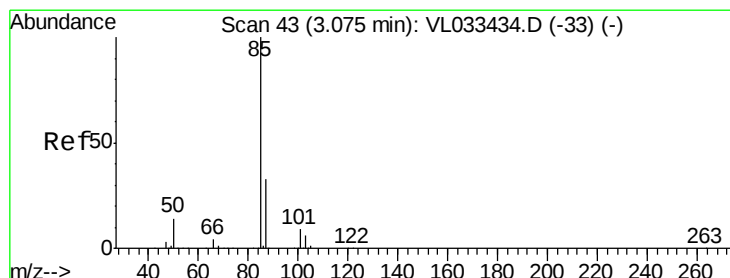
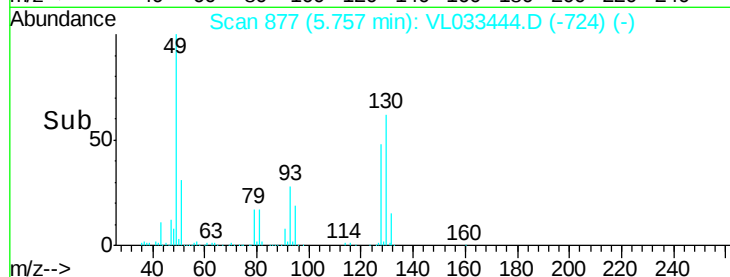
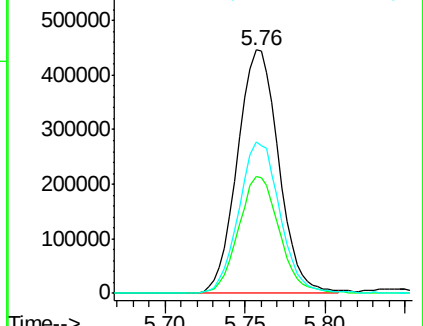
130 62.6 31.2 93.6



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: 1.034 ppbv

RT: 3.07 min Scan# 42

Delta R.T. -0.00 min

Lab File: VL033444.D

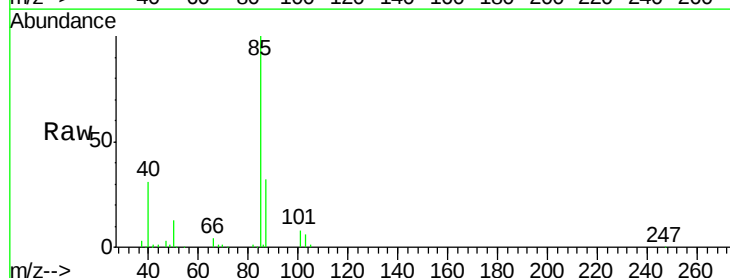
Acq: 25 Mar 2019 20:12

Tgt Ion: 85 Resp: 118379

Ion Ratio Lower Upper

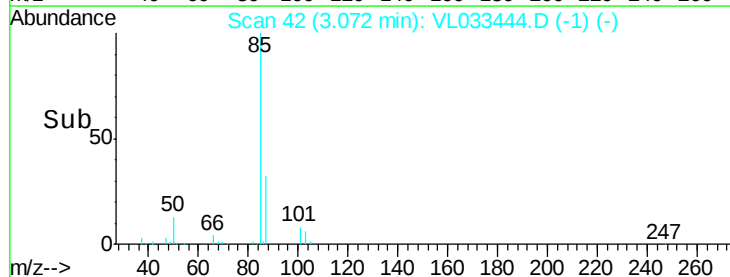
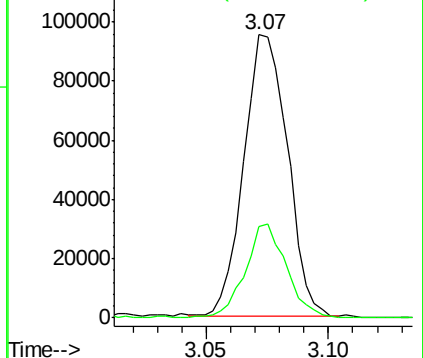
85 100

87 32.5 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.060 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

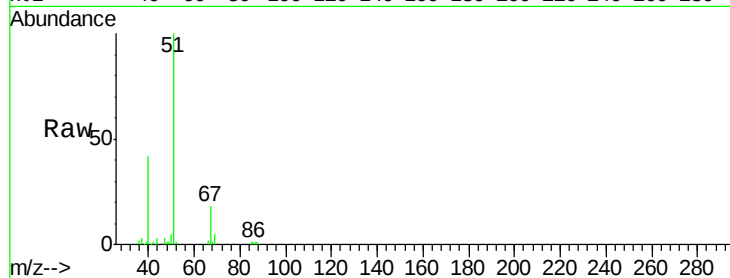
LOQ-AIR-02-QT1-2019

Tgt Ion: 51 Resp: 95802

Ion Ratio Lower Upper

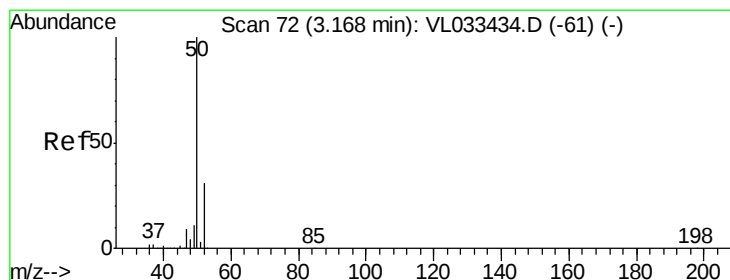
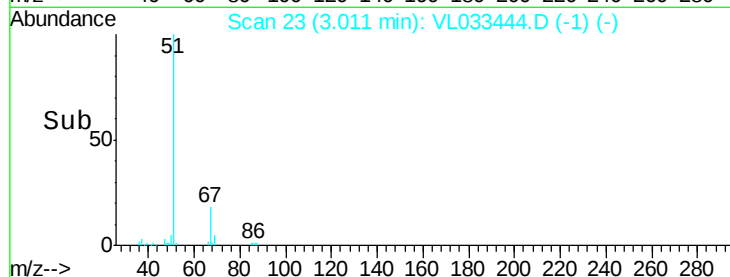
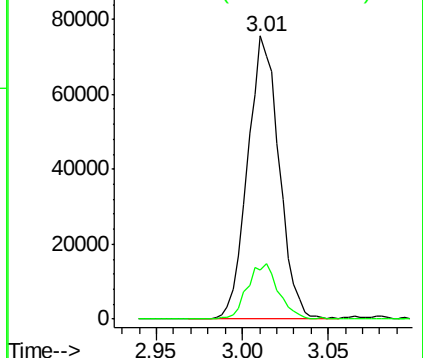
51 100

67 19.4 15.7 23.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 1.011 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033444.D

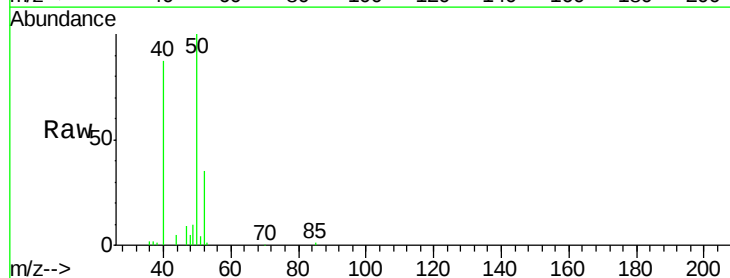
Acq: 25 Mar 2019 20:12

Tgt Ion: 50 Resp: 48328

Ion Ratio Lower Upper

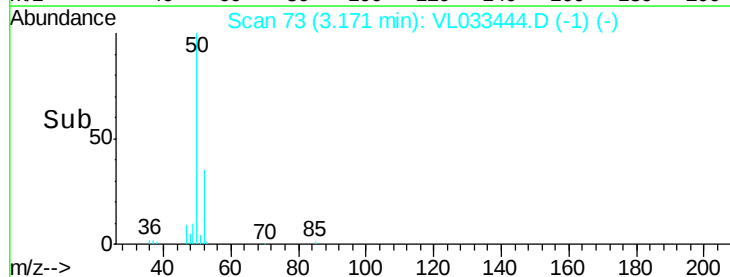
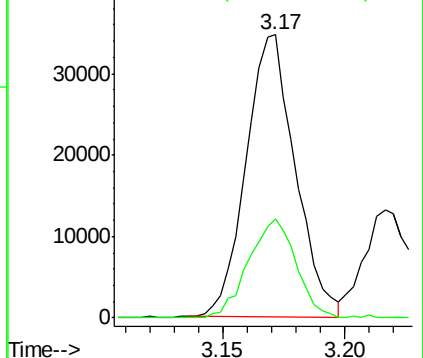
50 100

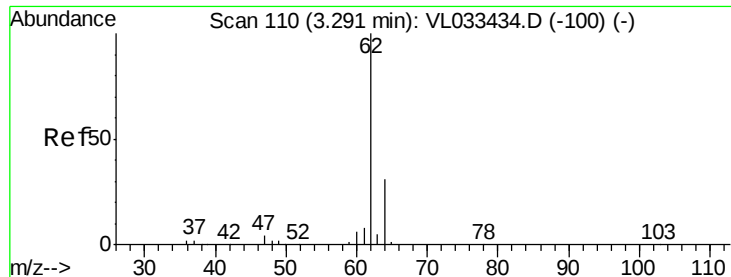
52 35.9 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 1.064 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

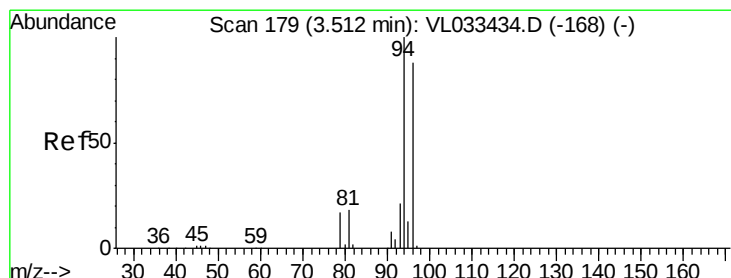
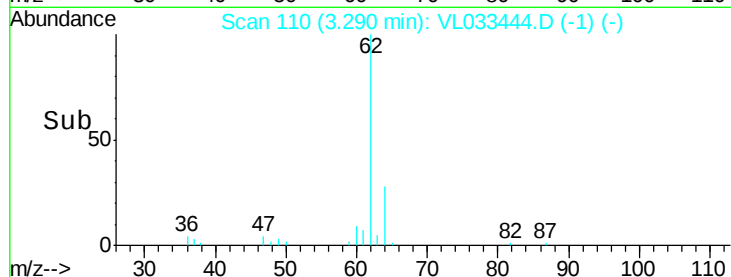
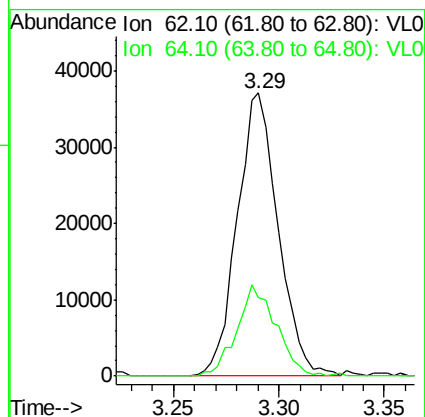
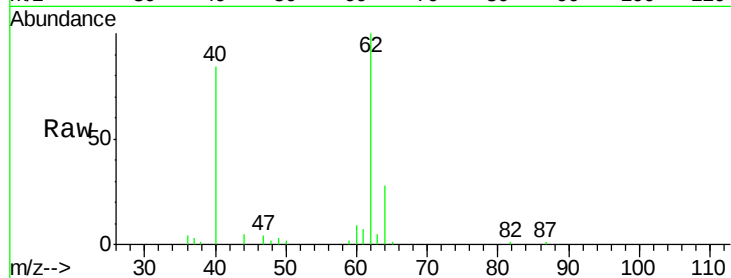
LOQ-AIR-02-QT1-2019

Tgt Ion: 62 Resp: 50007

Ion Ratio Lower Upper

62 100

64 27.8 24.9 37.3



#6

Bromomethane

Concen: 1.083 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033444.D

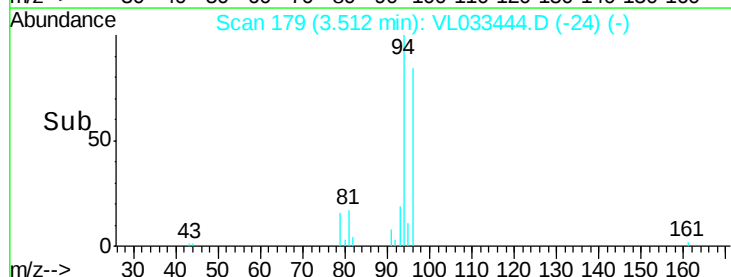
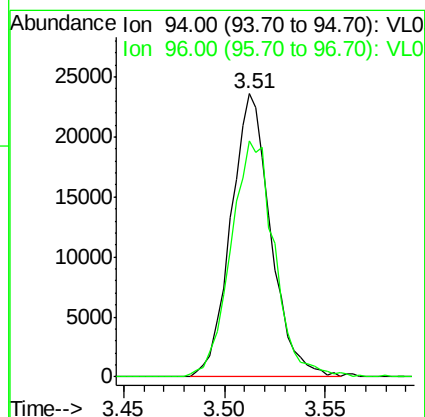
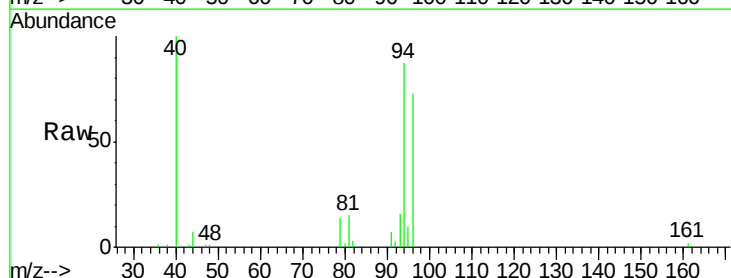
Acq: 25 Mar 2019 20:12

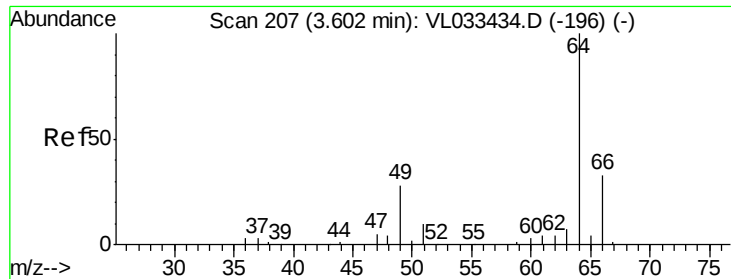
Tgt Ion: 94 Resp: 32693

Ion Ratio Lower Upper

94 100

96 82.7 70.2 105.2





#7

Chloroethane

Concen: 0.995 ppbv

RT: 3.60 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

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ClientSampleId :

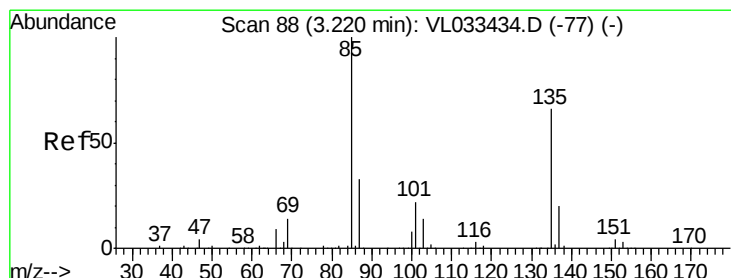
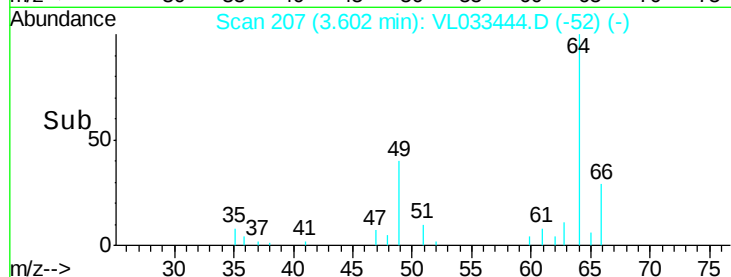
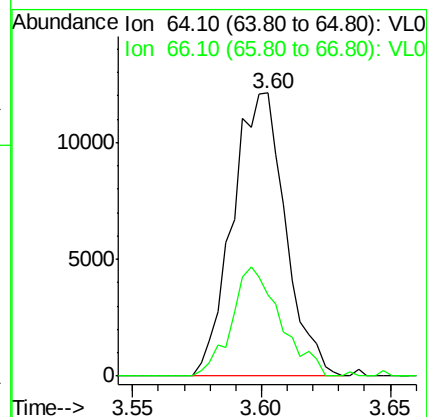
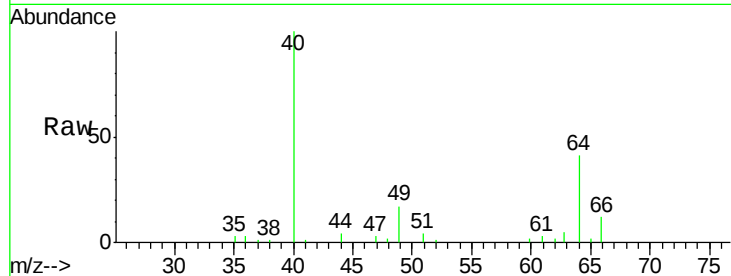
LOQ-AIR-02-QT1-2019

Tgt Ion: 64 Resp: 17394

Ion Ratio Lower Upper

64 100

66 28.6 26.7 40.1



#8

Dichlorotetrafluoroethane

Concen: 1.081 ppbv

RT: 3.22 min Scan# 87

Delta R.T. -0.00 min

Lab File: VL033444.D

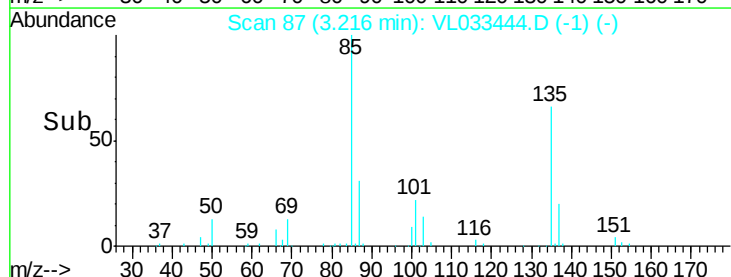
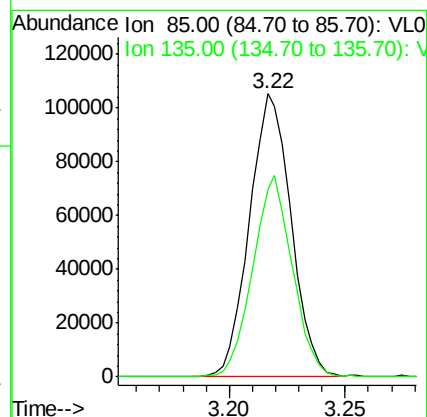
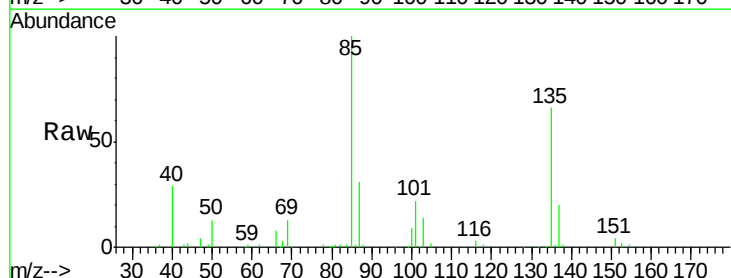
Acq: 25 Mar 2019 20:12

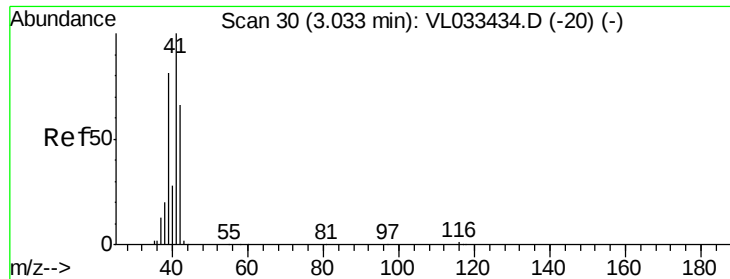
Tgt Ion: 85 Resp: 131833

Ion Ratio Lower Upper

85 100

135 67.5 54.0 81.0





#9

Propene

Concen: 1.009 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

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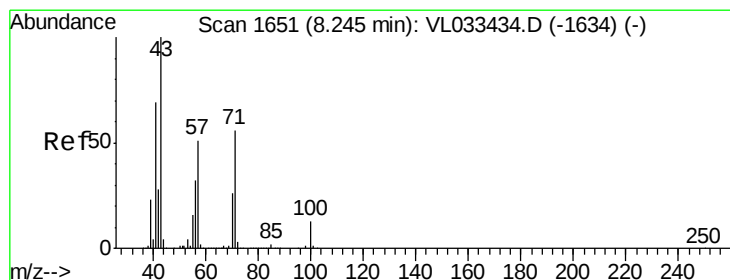
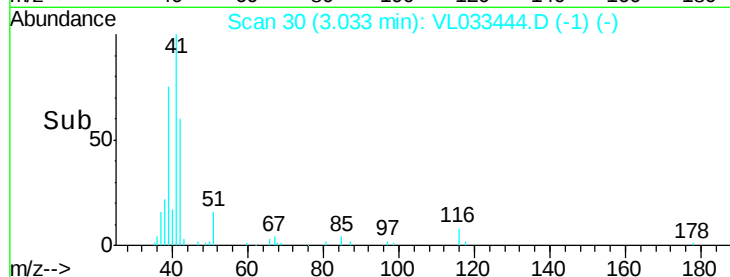
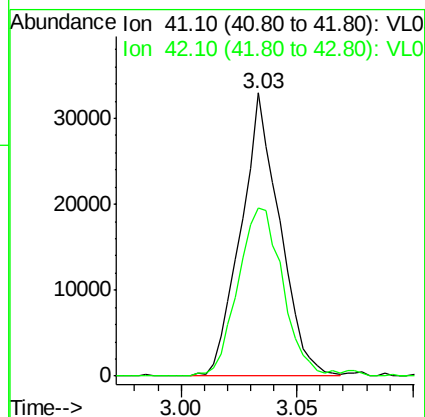
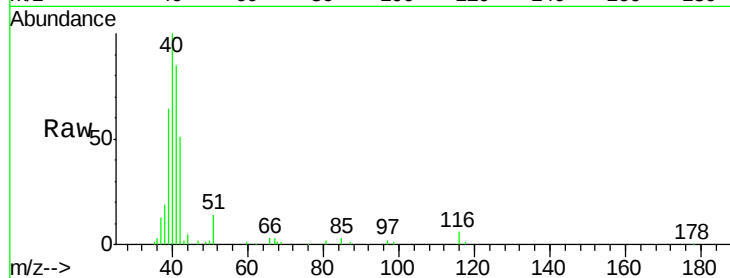
LOQ-AIR-02-QT1-2019

Tgt Ion: 41 Resp: 38309

Ion Ratio Lower Upper

41 100

42 69.6 53.9 80.9



#10

Heptane

Concen: 0.971 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VL033444.D

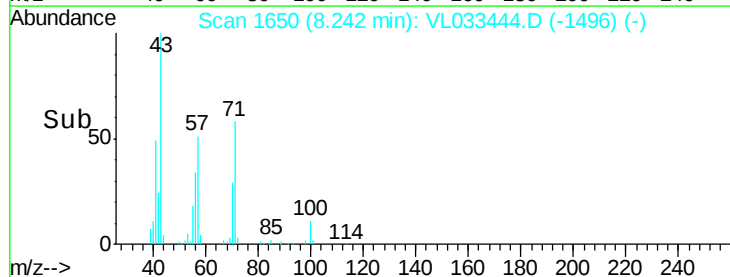
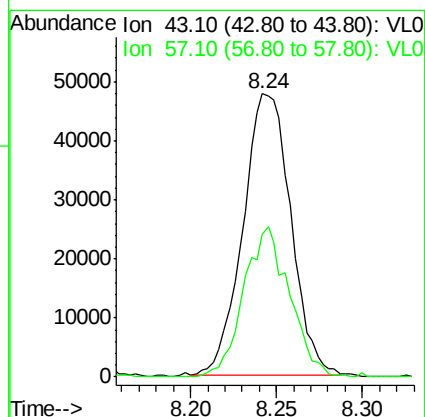
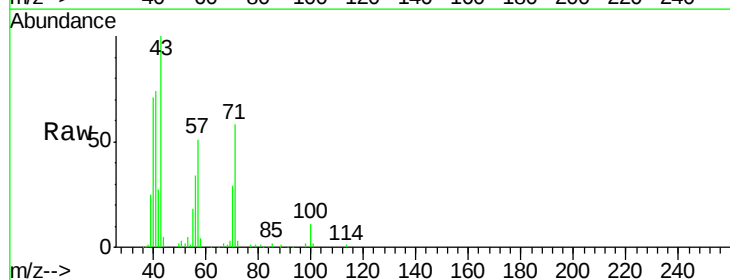
Acq: 25 Mar 2019 20:12

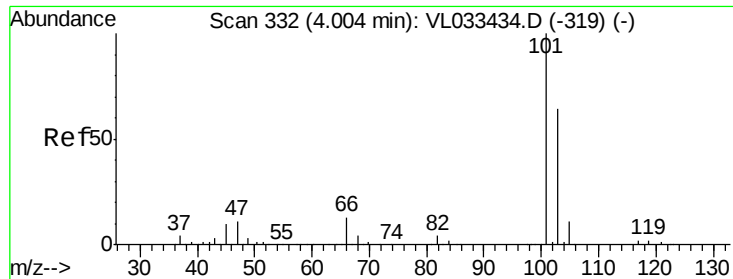
Tgt Ion: 43 Resp: 92378

Ion Ratio Lower Upper

43 100

57 51.2 40.6 60.8

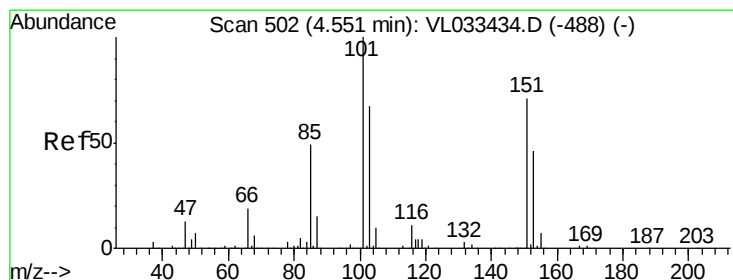
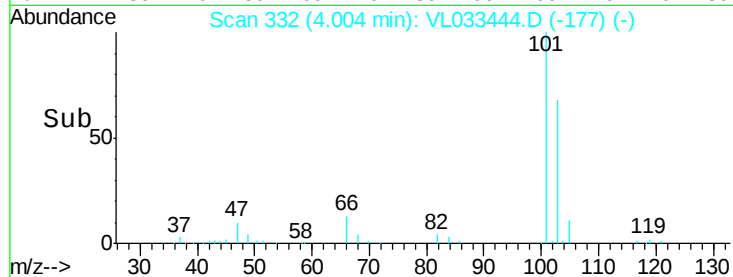
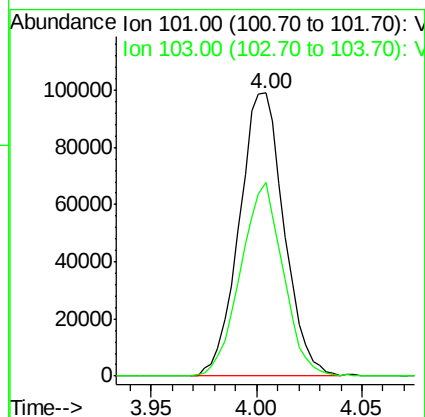
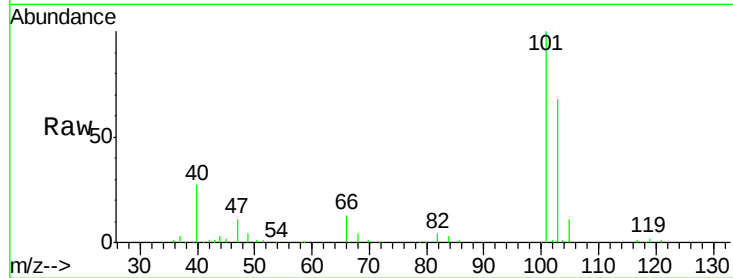




#11
 Trichlorofluoromethane
 Concen: 1.029 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

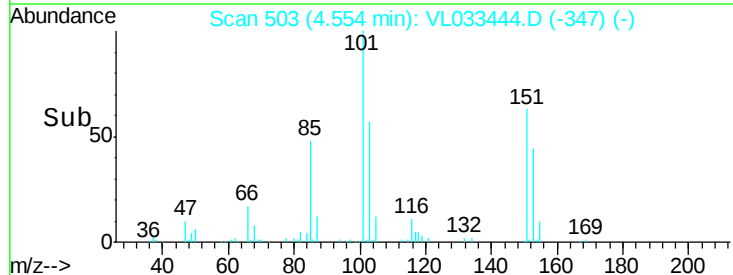
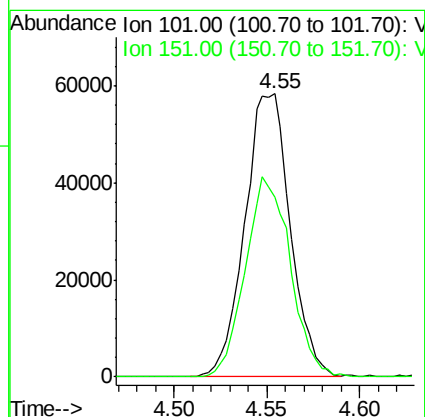
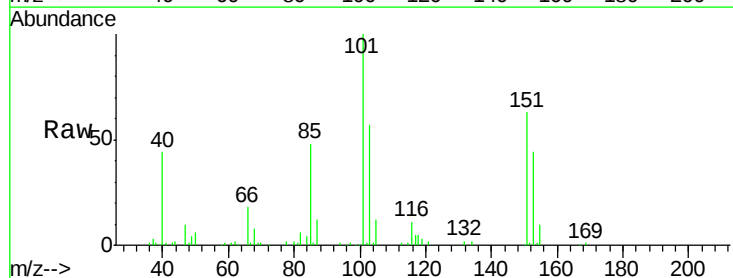
Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT1-2019

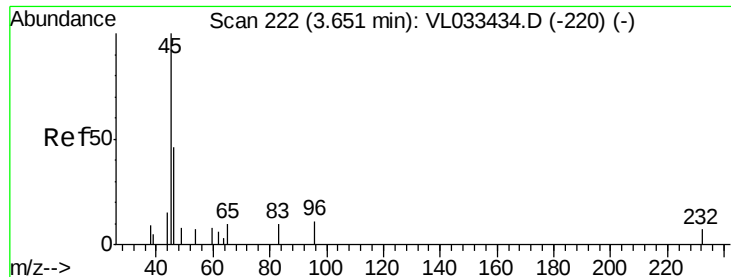
Tgt Ion:101 Resp: 145152
 Ion Ratio Lower Upper
 101 100
 103 68.5 51.3 76.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.054 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

Tgt Ion:101 Resp: 99888
 Ion Ratio Lower Upper
 101 100
 151 69.5 57.7 86.5





#13

Ethanol

Concen: 1.675 ppbv

RT: 3.65 min Scan# 222

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

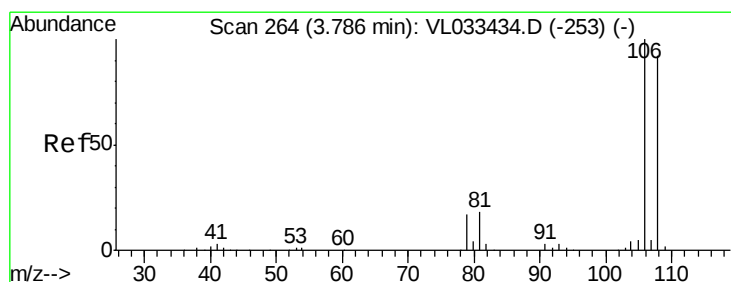
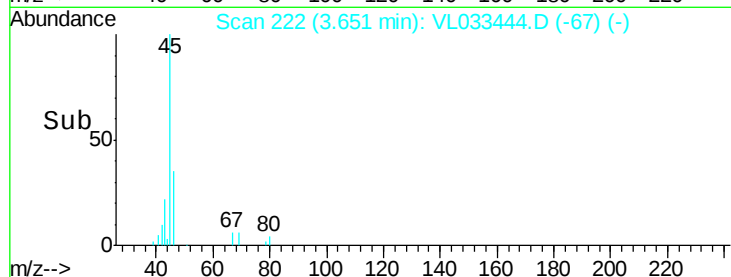
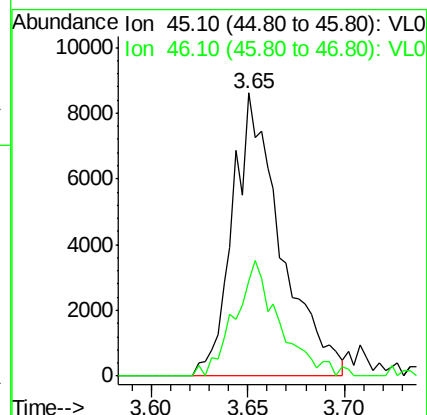
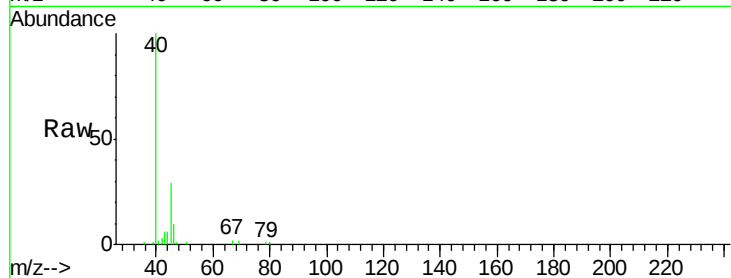
LOQ-AIR-02-QT1-2019

Tgt Ion: 45 Resp: 15001

Ion Ratio Lower Upper

45 100

46 37.7 25.4 101.8



#14

Bromoethene

Concen: 1.024 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

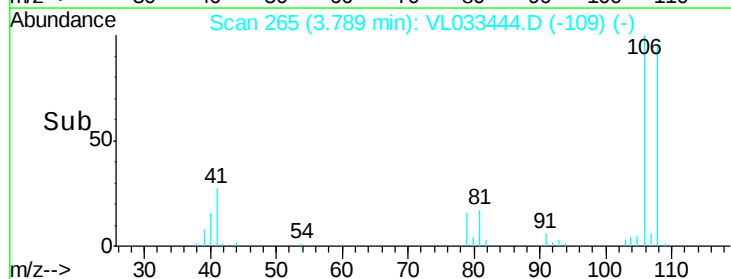
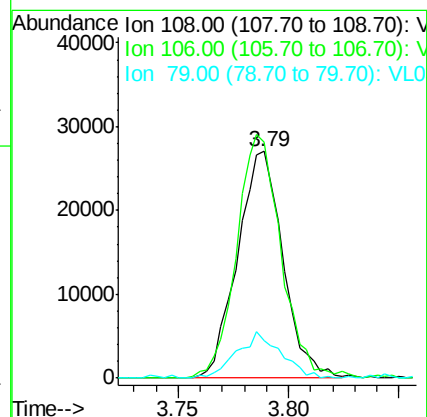
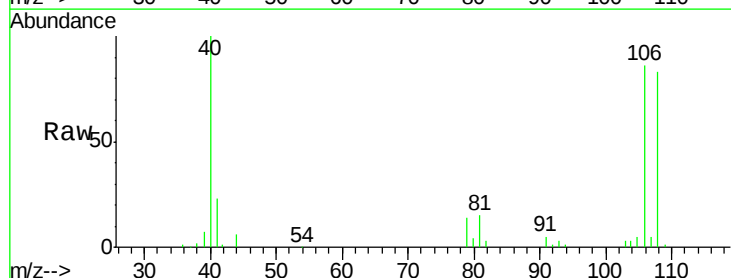
Tgt Ion: 108 Resp: 38720

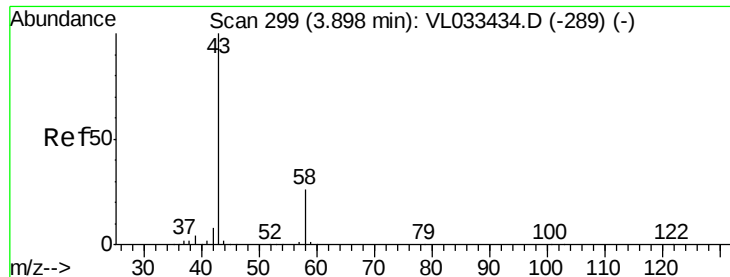
Ion Ratio Lower Upper

108 100

106 105.9 86.4 129.6

79 19.9 15.8 23.8





#15

Acetone

Concen: 1.039 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

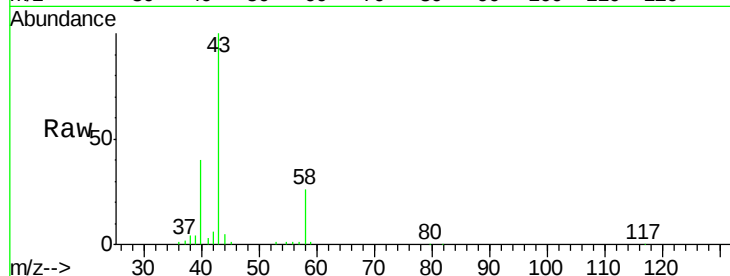
LOQ-AIR-02-QT1-2019

Tgt Ion: 43 Resp: 98069

Ion Ratio Lower Upper

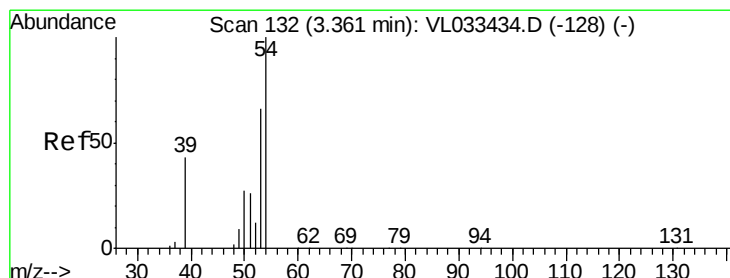
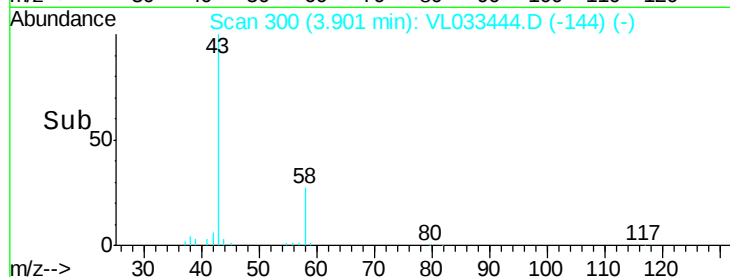
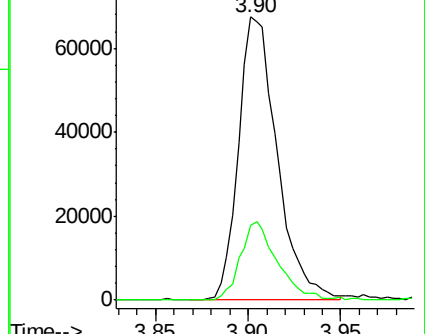
43 100

58 26.5 20.5 30.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.843 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033444.D

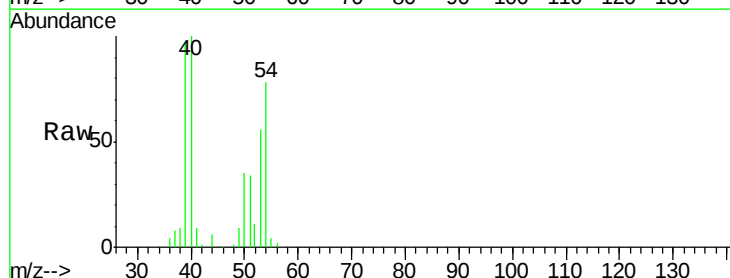
Acq: 25 Mar 2019 20:12

Tgt Ion: 39 Resp: 31570

Ion Ratio Lower Upper

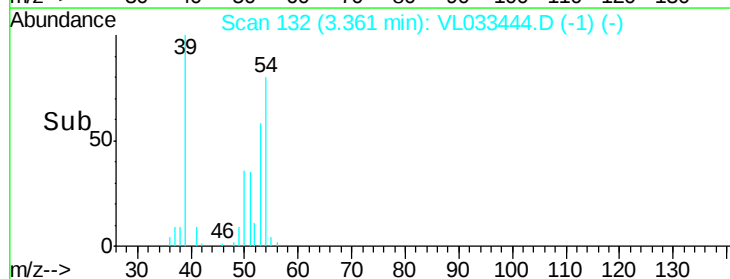
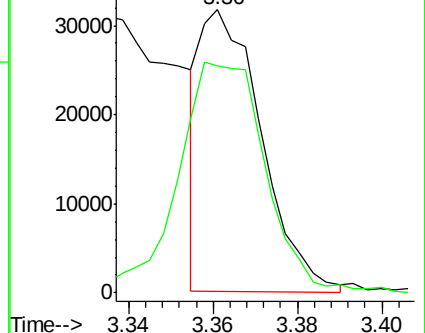
39 100

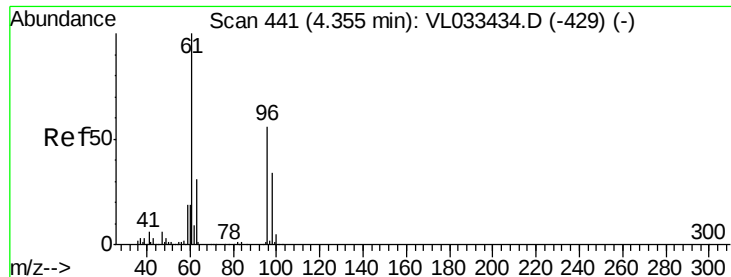
54 120.7 69.4 104.2#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 0.503 ppbv

RT: 4.36 min Scan# 443

Delta R.T. 0.01 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

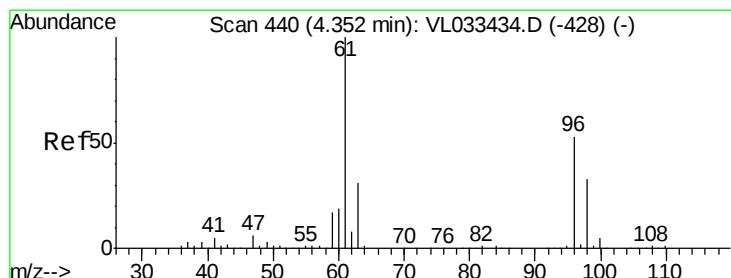
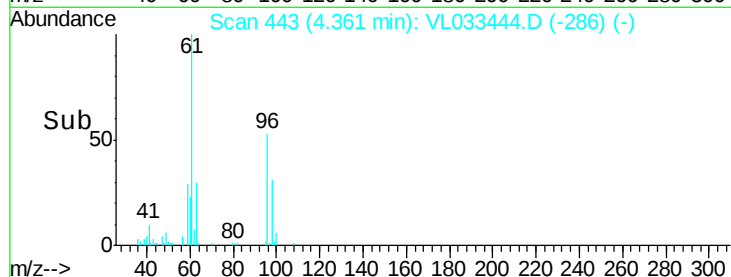
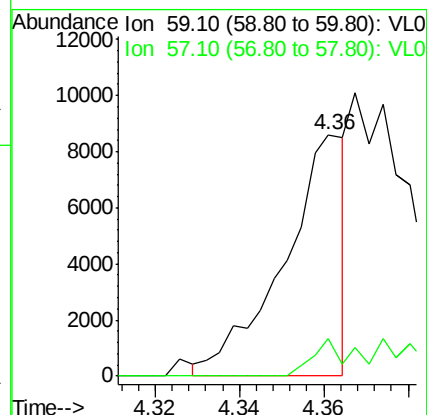
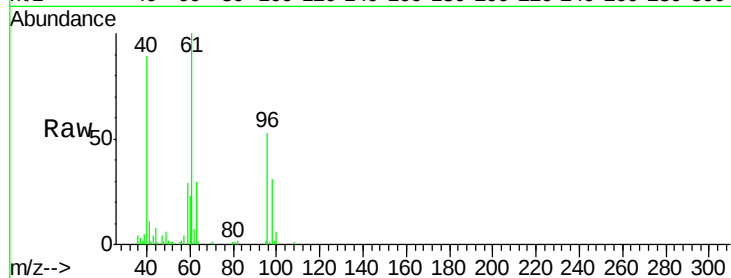
LOQ-AIR-02-QT1-2019

Tgt Ion: 59 Resp: 8735

Ion Ratio Lower Upper

59 100

57 19.6 7.8 11.8#



#18

1,1-Dichloroethene

Concen: 1.046 ppbv

RT: 4.35 min Scan# 440

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

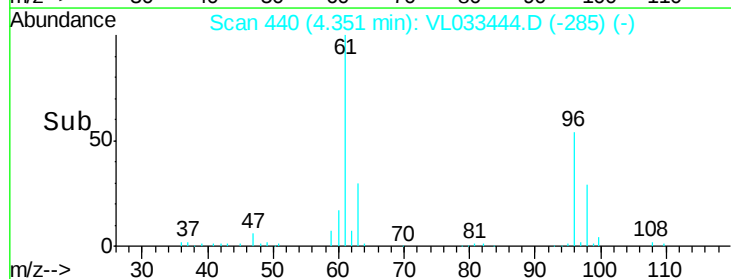
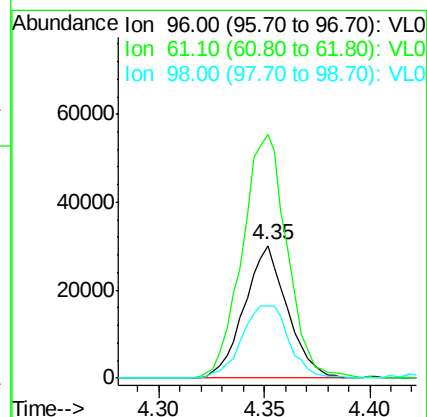
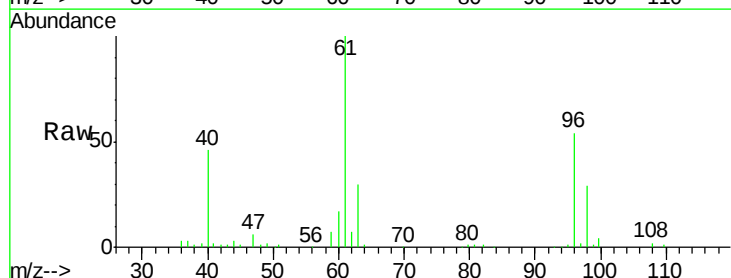
Tgt Ion: 96 Resp: 42575

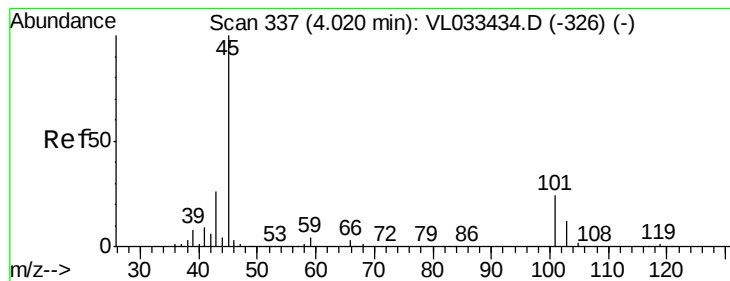
Ion Ratio Lower Upper

96 100

61 183.5 149.8 224.6

98 53.9 48.7 73.1





#19

Isopropyl Alcohol

Concen: 1.121 ppbv

RT: 4.03 min Scan# 339

Delta R.T. 0.01 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

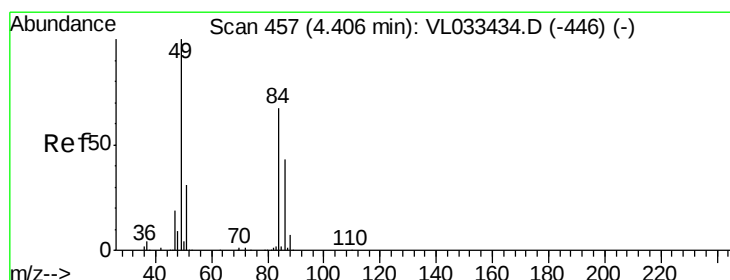
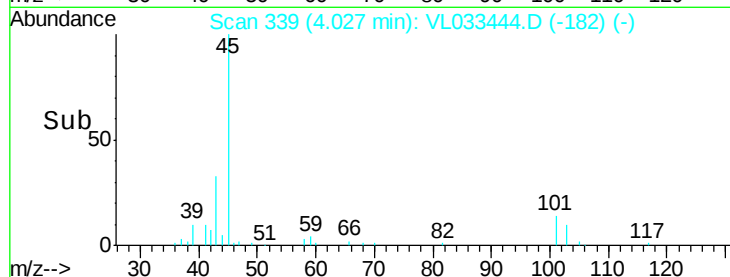
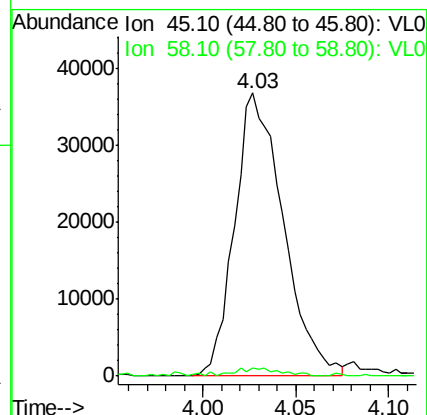
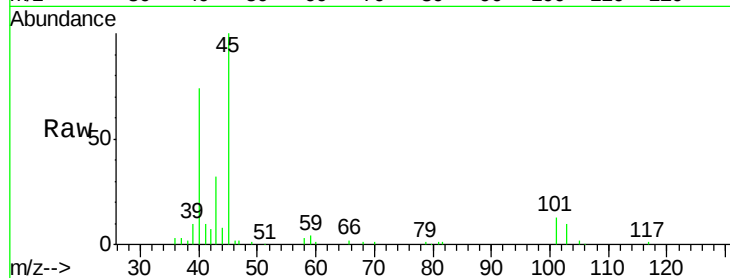
LOQ-AIR-02-QT1-2019

Tgt Ion: 45 Resp: 66932

Ion Ratio Lower Upper

45 100

58 2.9 1.4 2.2#



#20

Methylene Chloride

Concen: 1.027 ppbv

RT: 4.40 min Scan# 456

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Tgt Ion: 84 Resp: 41145

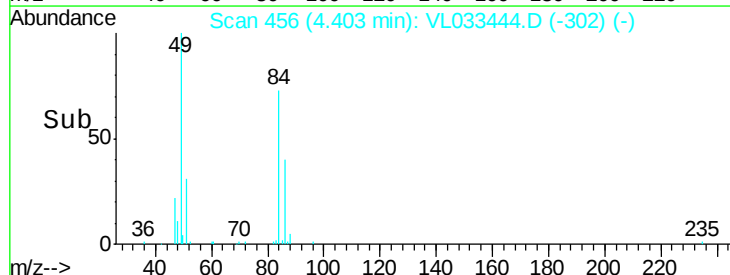
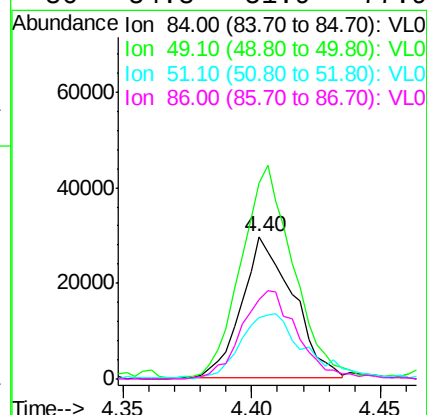
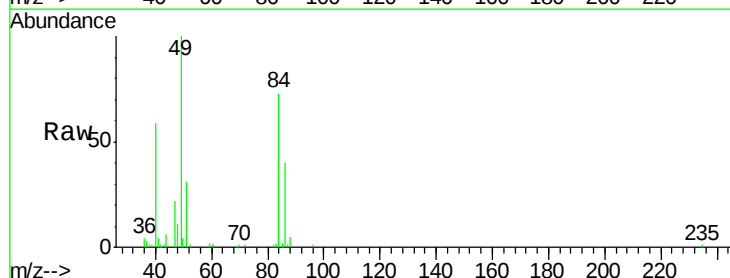
Ion Ratio Lower Upper

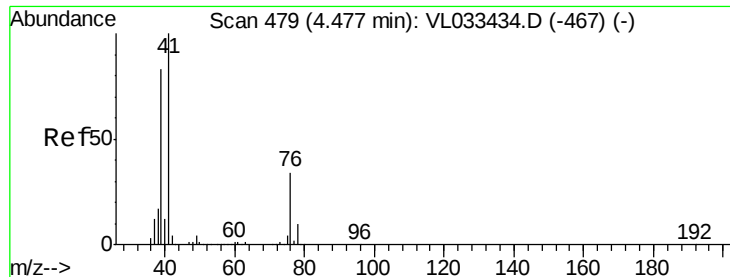
84 100

49 142.7 120.0 180.0

51 43.7 36.7 55.1

86 54.8 51.9 77.9





#21

Allyl Chloride

Concen: 0.994 ppbv

RT: 4.48 min Scan# 479

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT1-2019

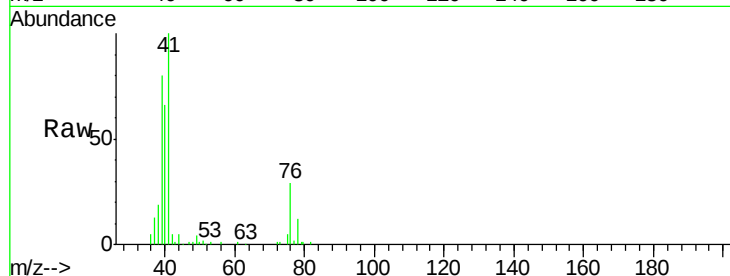
Tgt Ion: 41 Resp: 59296

Ion Ratio Lower Upper

41 100

76 30.4 25.4 38.2

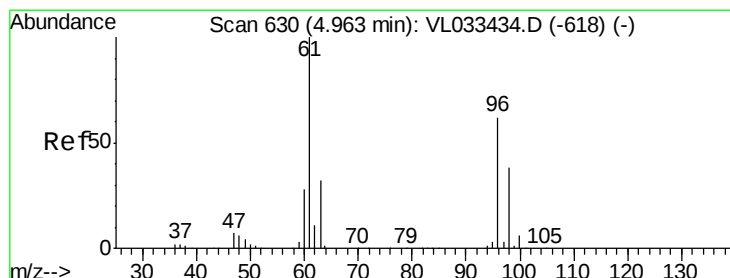
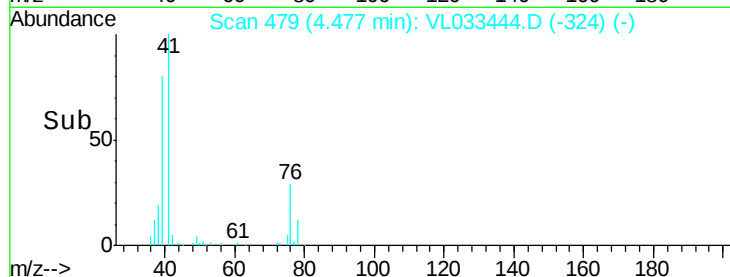
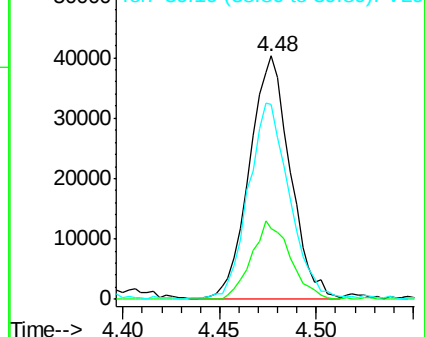
39 82.7 65.3 97.9



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: 0.470 ppbv

RT: 4.96 min Scan# 628

Delta R.T. -0.01 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

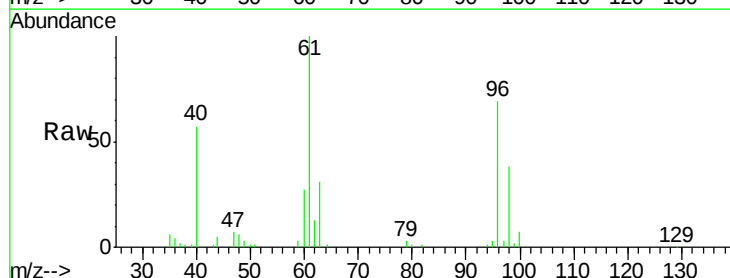
Tgt Ion: 96 Resp: 19944

Ion Ratio Lower Upper

96 100

61 143.3 128.9 193.3

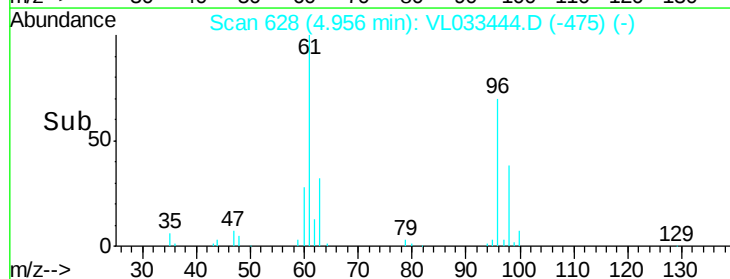
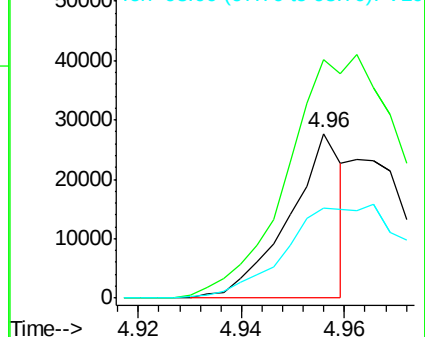
98 54.2 49.5 74.3

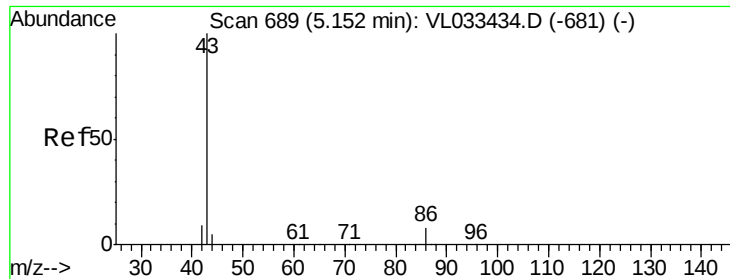


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

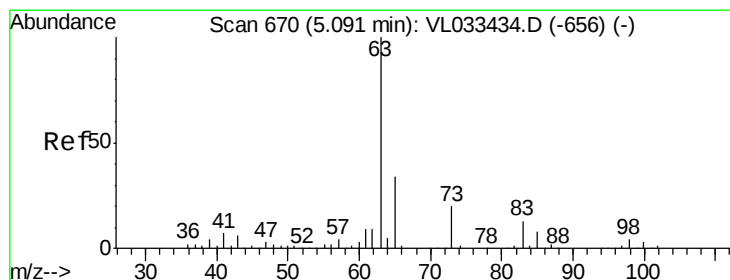
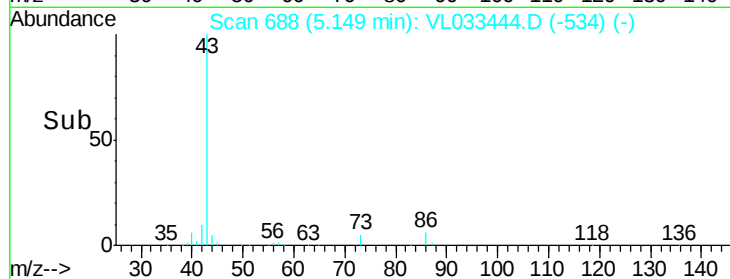
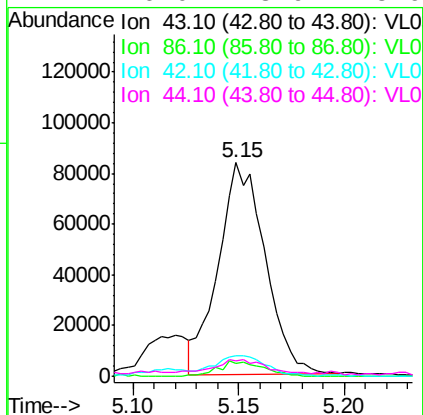
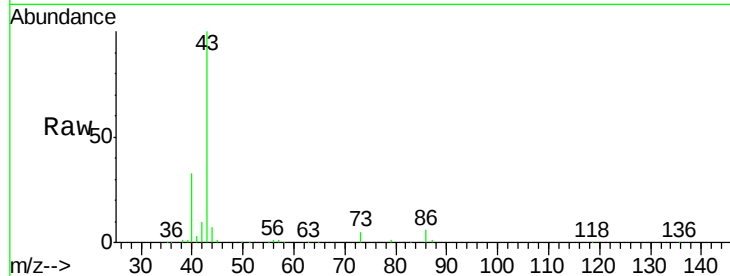




#23
 Vinyl Acetate
 Concen: 0.961 ppbv
 RT: 5.15 min Scan# 688
 Delta R.T. -0.00 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

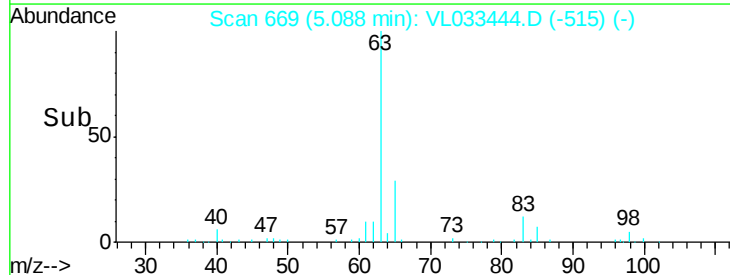
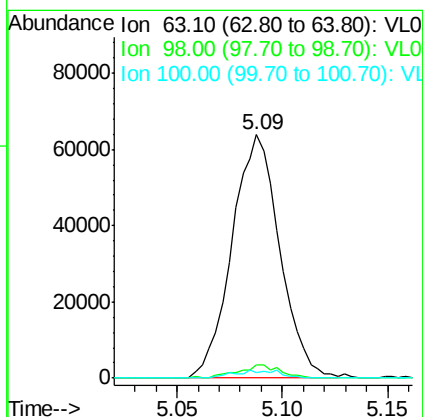
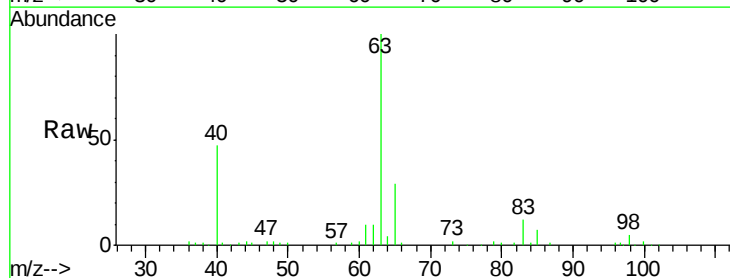
Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT1-2019

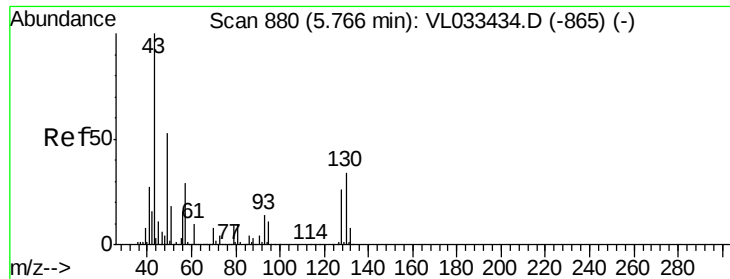
Tgt Ion:	43	Resp:	129141
Ion	Ratio	Lower	Upper
43	100		
86	6.3	5.6	8.4
42	9.4	8.0	12.0
44	6.0	3.9	5.9#



#24
 1,1-Dichloroethane
 Concen: 0.983 ppbv
 RT: 5.09 min Scan# 669
 Delta R.T. -0.00 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

Tgt Ion:	63	Resp:	100317
Ion	Ratio	Lower	Upper
63	100		
98	5.7	2.2	6.6
100	2.3	1.5	4.4





#25

Ethyl Acetate

Concen: 0.984 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT1-2019

Tgt Ion: 43 Resp: 172330

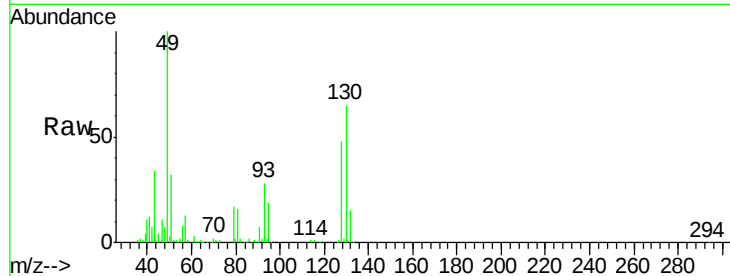
Ion Ratio Lower Upper

43 100

45 10.2 7.8 11.6

61 9.2 7.3 10.9

70 6.6 5.6 8.4

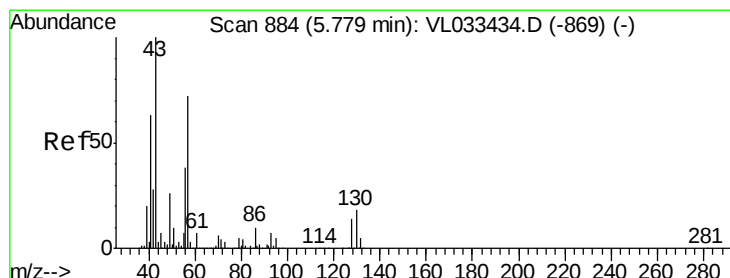
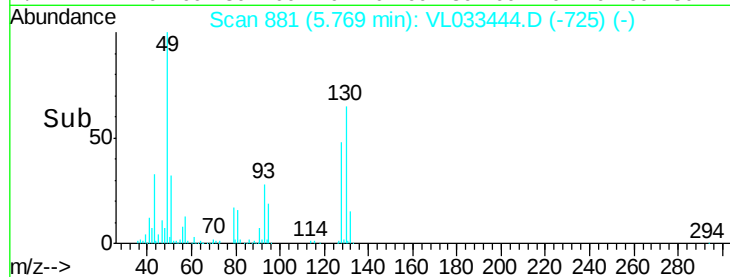
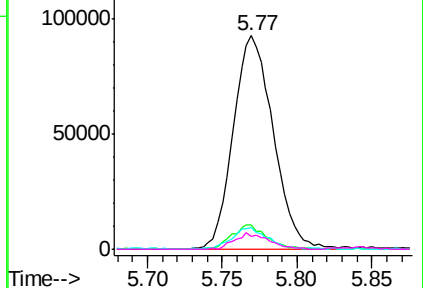


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 1.020 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Tgt Ion: 57 Resp: 79453

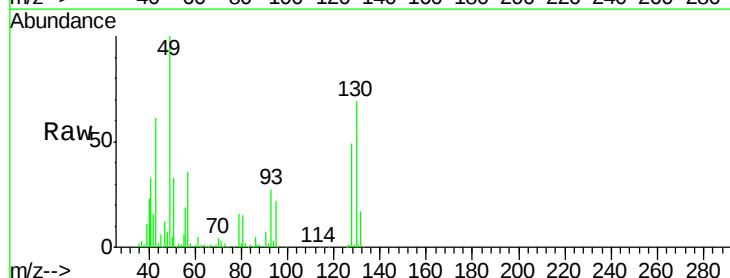
Ion Ratio Lower Upper

57 100

41 91.4 70.7 106.1

43 220.0 182.6 274.0

56 54.7 42.0 63.0

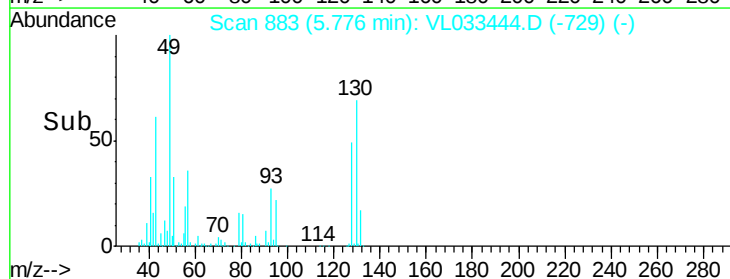
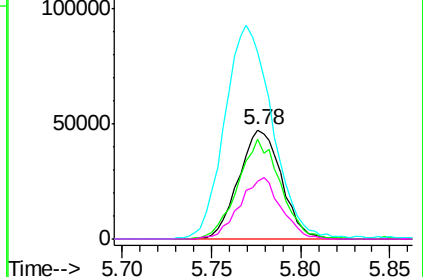


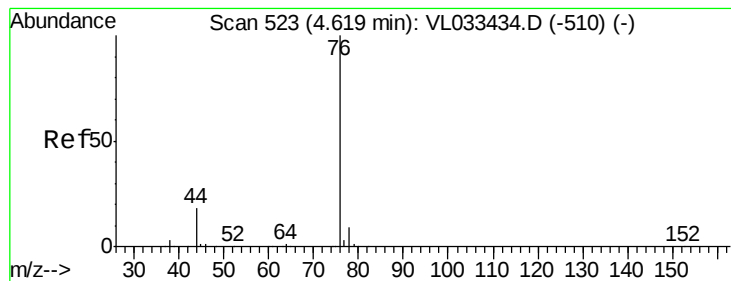
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.929 ppbv

RT: 4.62 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT1-2019

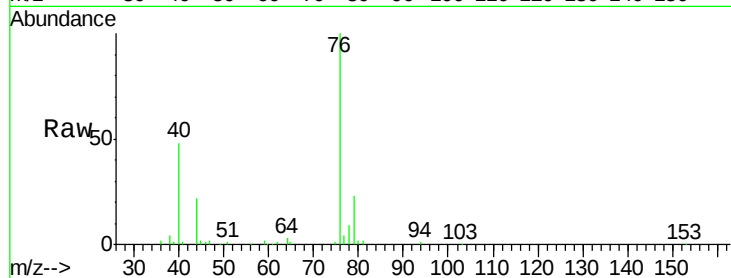
Tgt Ion: 76 Resp: 85988

Ion Ratio Lower Upper

76 100

44 19.6 14.8 22.2

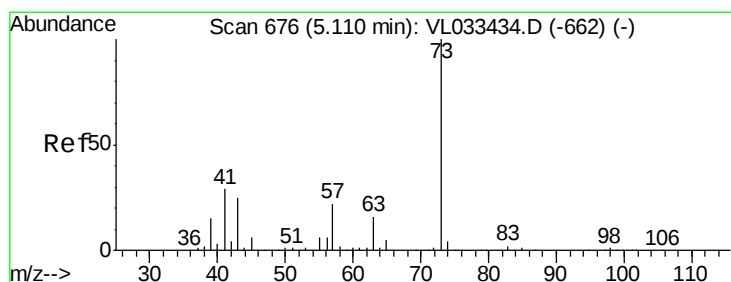
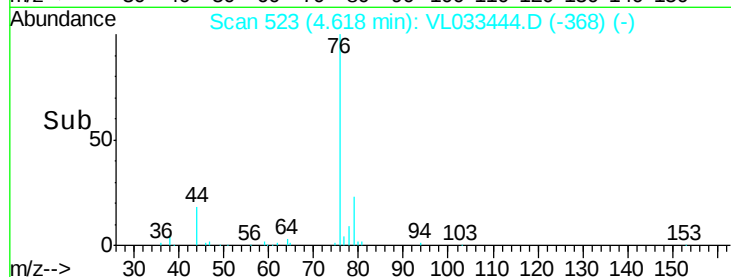
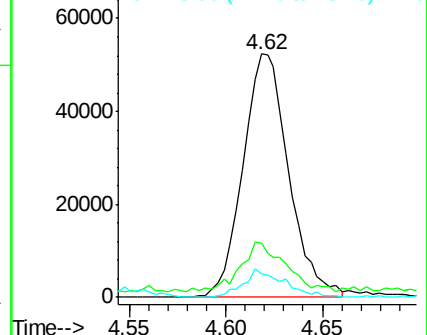
78 10.4 7.6 11.4



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: 0.978 ppbv

RT: 5.12 min Scan# 678

Delta R.T. 0.01 min

Lab File: VL033444.D

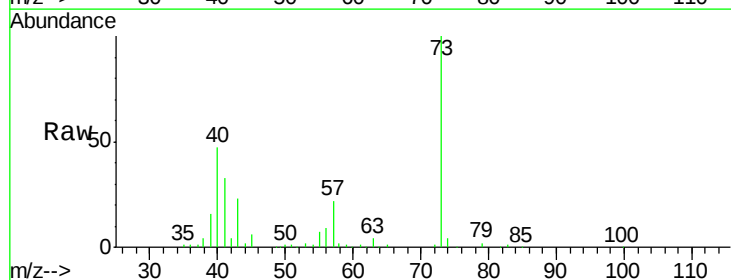
Acq: 25 Mar 2019 20:12

Tgt Ion: 73 Resp: 109686

Ion Ratio Lower Upper

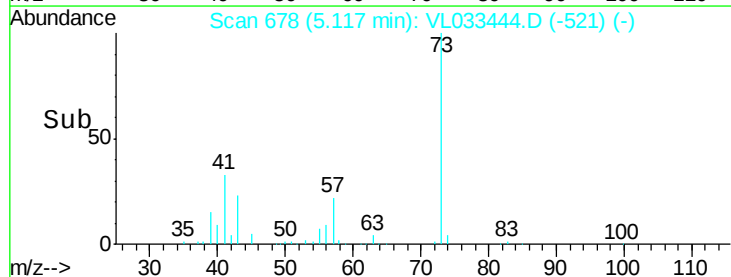
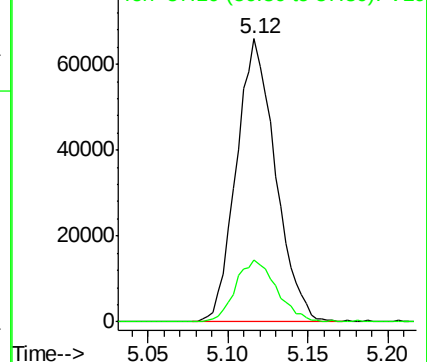
73 100

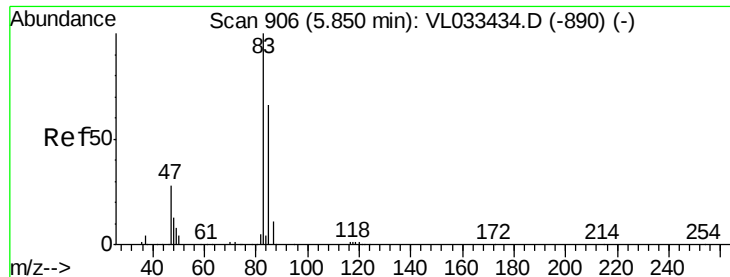
57 23.1 17.4 26.2



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

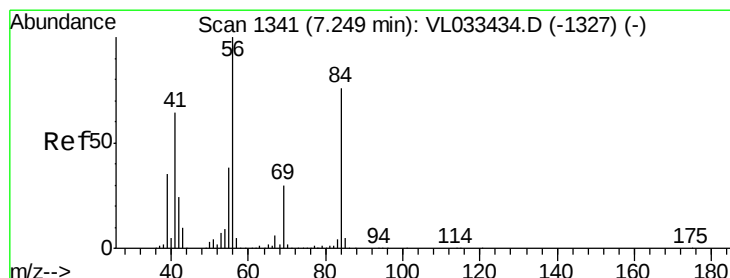
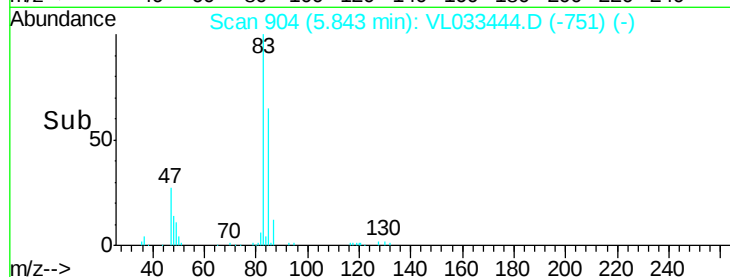
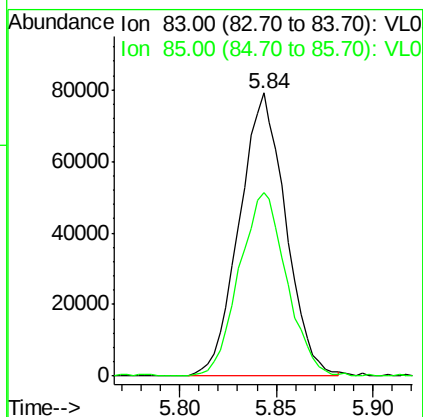
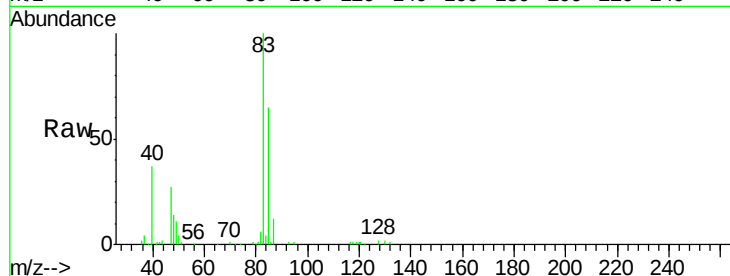




#29
Chloroform
Concen: 0.987 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.01 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

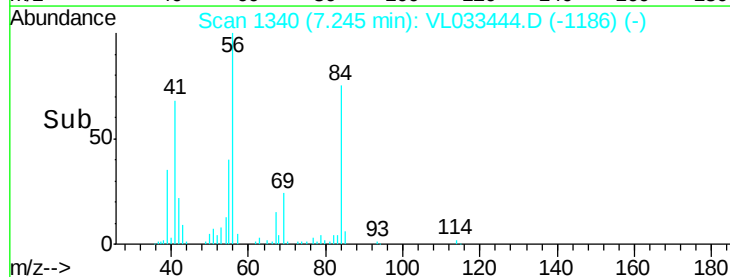
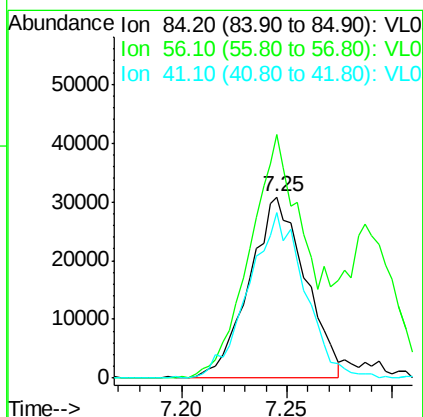
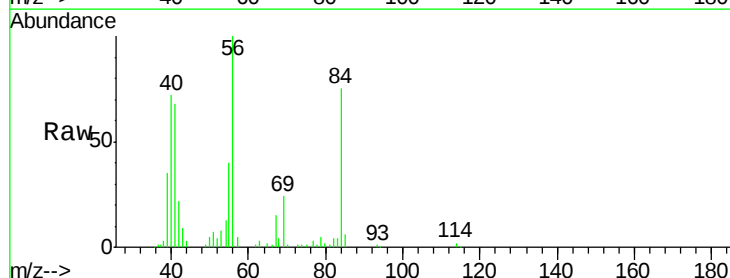
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT1-2019

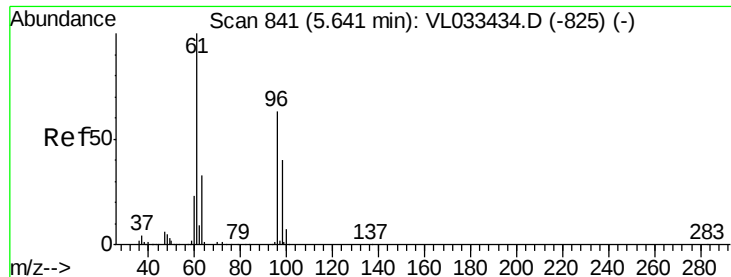
Tgt Ion: 83 Resp: 131729
Ion Ratio Lower Upper
83 100
85 65.0 52.6 79.0



#30
Cyclohexane
Concen: 0.924 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

Tgt Ion: 84 Resp: 56939
Ion Ratio Lower Upper
84 100
56 135.9 109.7 164.5
41 91.7 68.2 102.2





#31

cis-1,2-Dichloroethene

Concen: 0.942 ppbv

RT: 5.64 min Scan# 840

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT1-2019

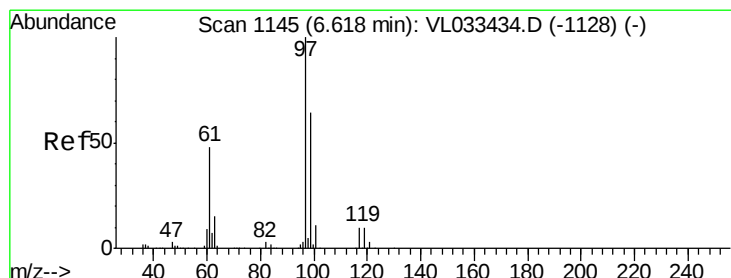
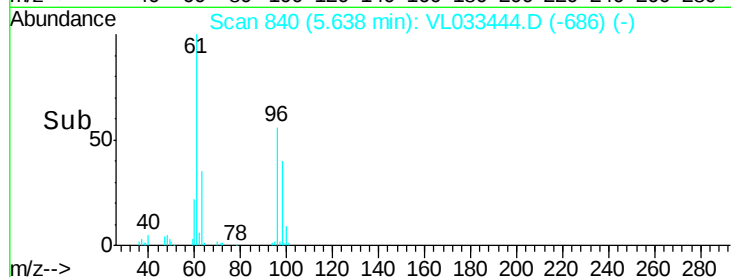
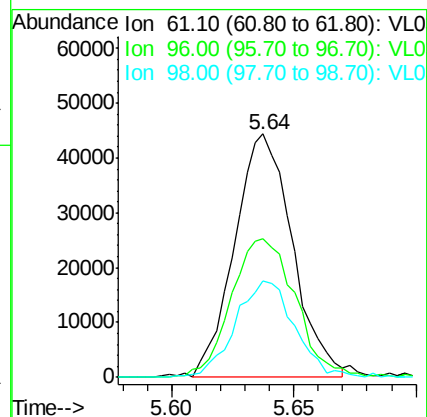
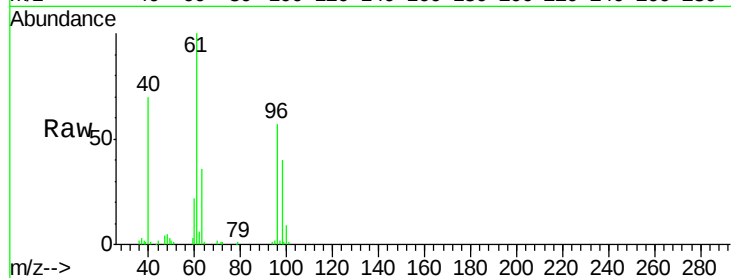
Tgt Ion: 61 Resp: 72900

Ion Ratio Lower Upper

61 100

96 53.2 50.6 76.0

98 38.6 32.2 48.2



#32

1,1,1-Trichloroethane

Concen: 1.009 ppbv

RT: 6.62 min Scan# 1144

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

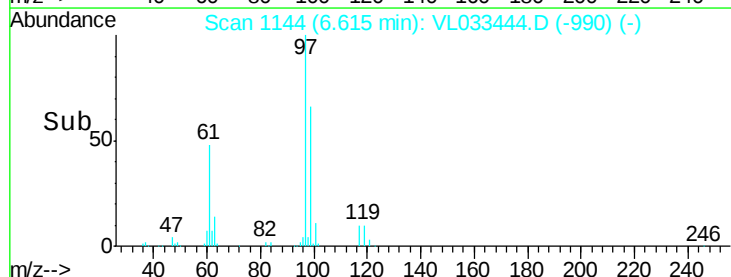
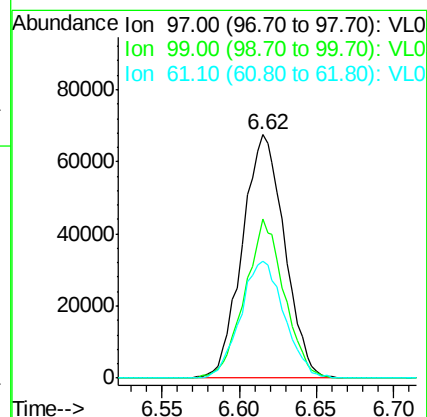
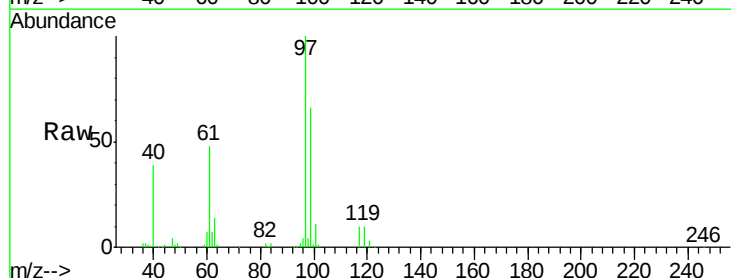
Tgt Ion: 97 Resp: 128242

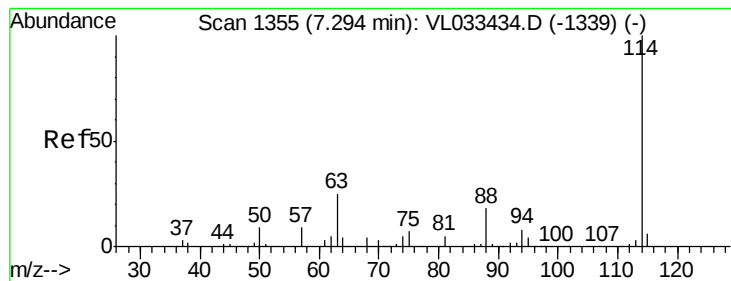
Ion Ratio Lower Upper

97 100

99 61.0 51.5 77.3

61 49.5 38.8 58.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT1-2019

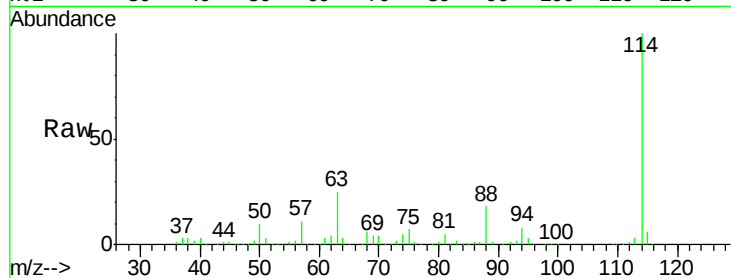
Tgt Ion: 114 Resp: 1830322

Ion Ratio Lower Upper

114 100

63 26.4 21.5 32.3

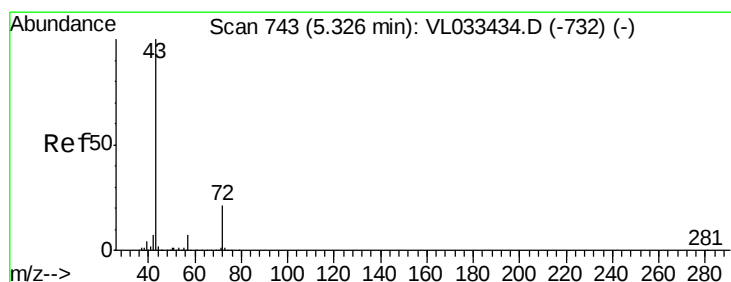
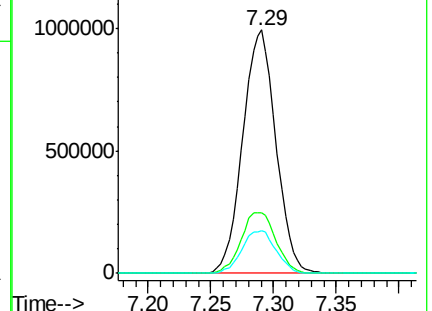
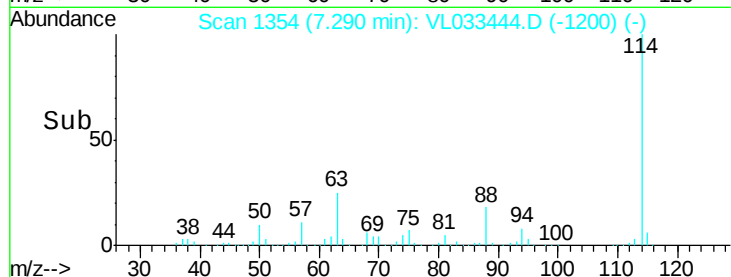
88 18.2 14.5 21.7



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: 0.987 ppbv

RT: 5.33 min Scan# 745

Delta R.T. 0.01 min

Lab File: VL033444.D

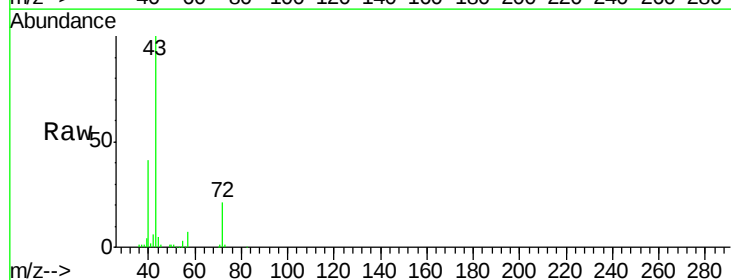
Acq: 25 Mar 2019 20:12

Tgt Ion: 43 Resp: 108581

Ion Ratio Lower Upper

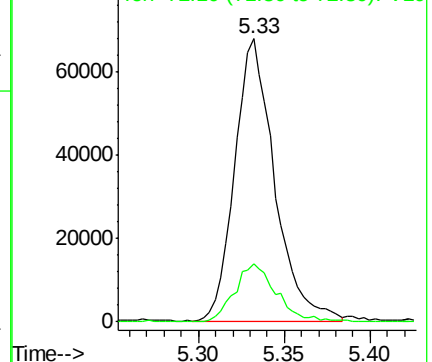
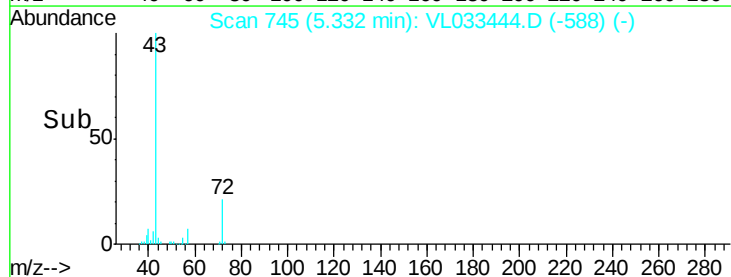
43 100

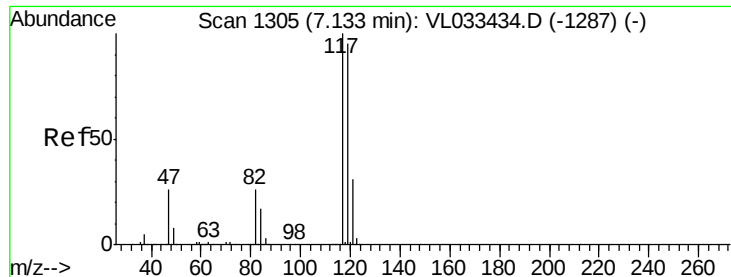
72 21.6 17.4 26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

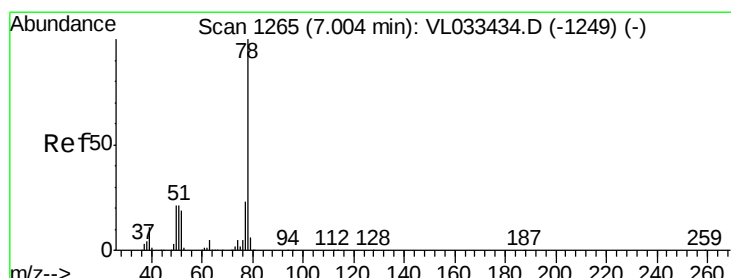
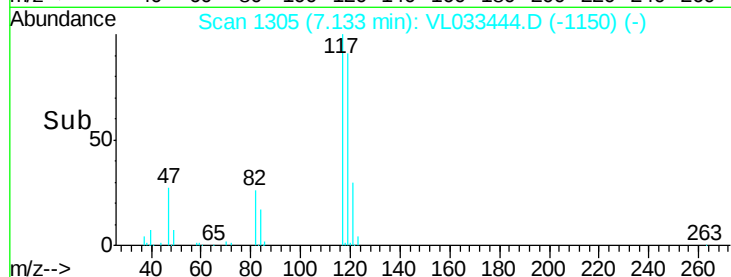
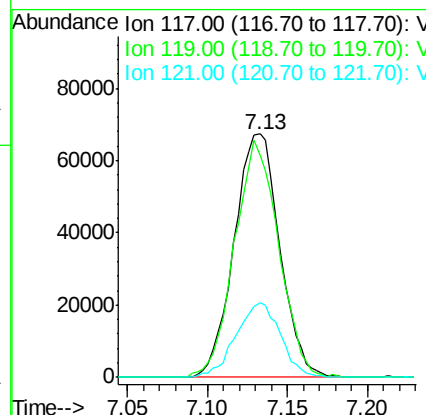
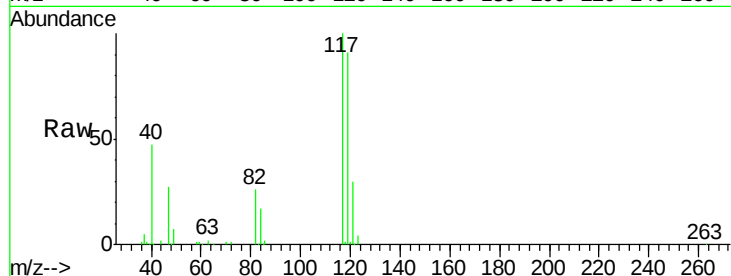




#35
Carbon Tetrachloride
Concen: 1.097 ppbv
RT: 7.13 min Scan# 1305
Delta R.T. -0.00 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

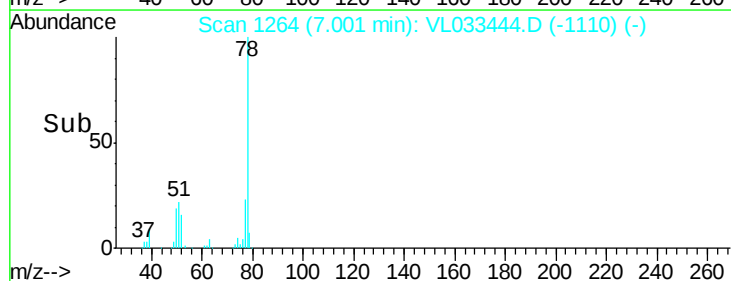
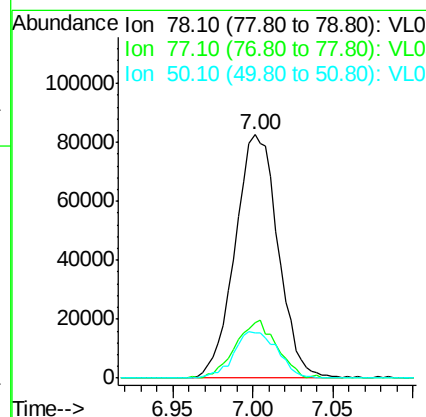
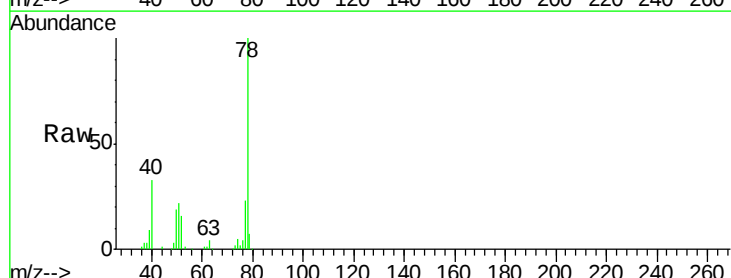
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT1-2019

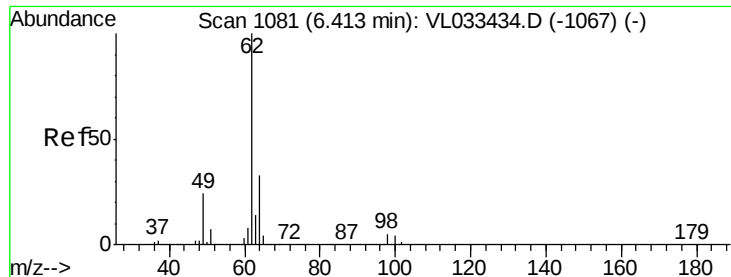
Tgt Ion:117 Resp: 130885
Ion Ratio Lower Upper
117 100
119 91.0 75.8 113.8
121 30.7 24.7 37.1



#36
Benzene
Concen: 0.986 ppbv
RT: 7.00 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

Tgt Ion: 78 Resp: 151450
Ion Ratio Lower Upper
78 100
77 22.9 18.1 27.1
50 18.2 16.7 25.1

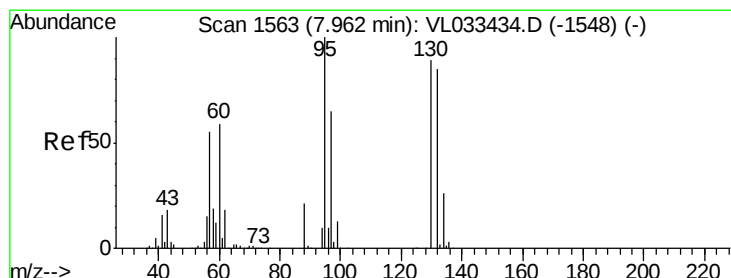
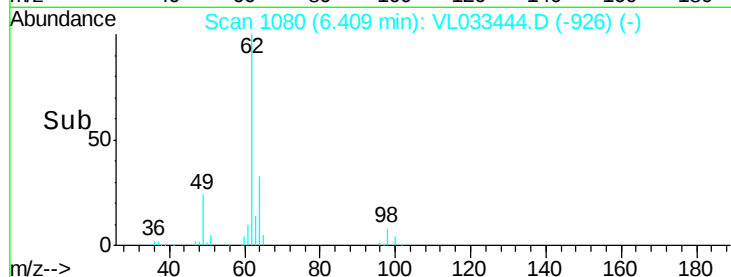
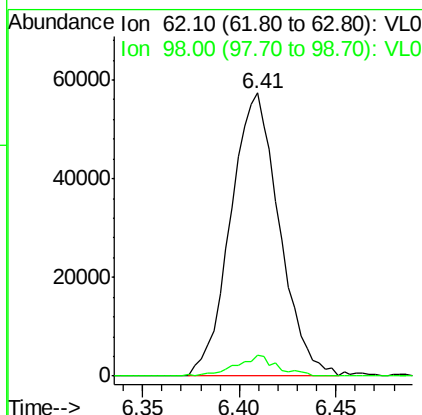
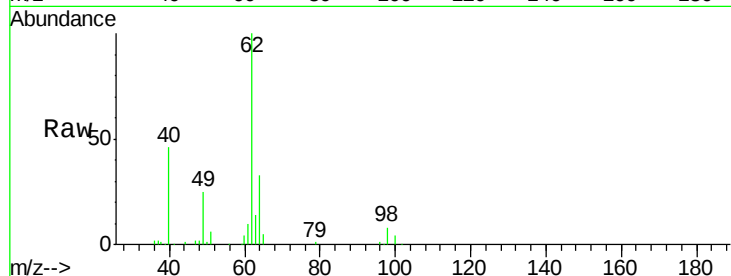




#37
 1,2-Dichloroethane
 Concen: 0.974 ppbv
 RT: 6.41 min Scan# 1080
 Delta R.T. -0.00 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

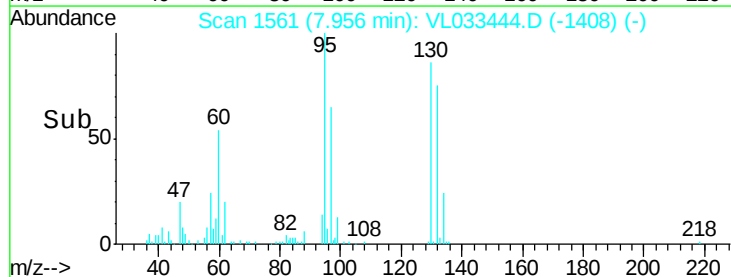
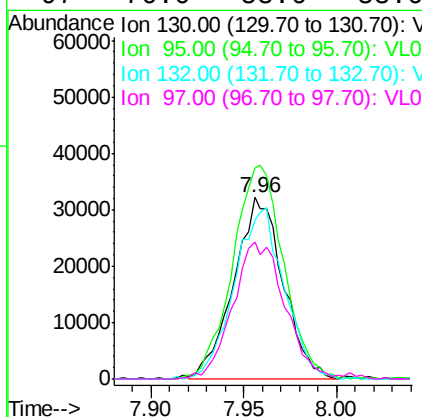
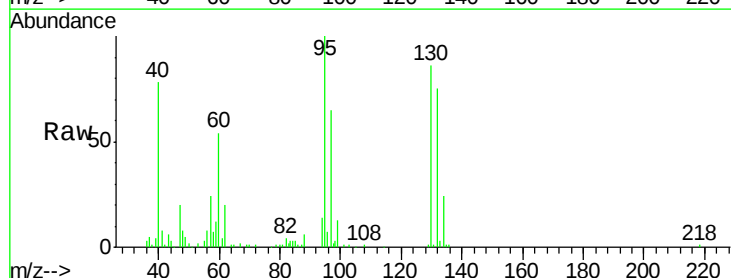
Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT1-2019

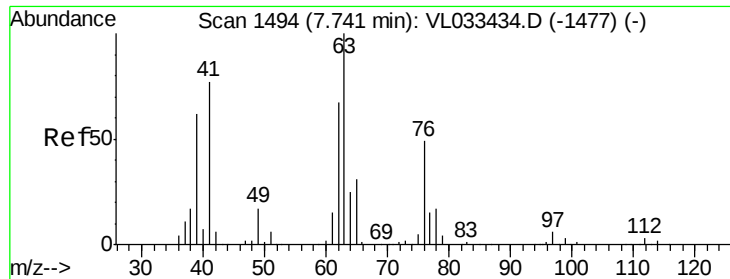
Tgt Ion: 62 Resp: 100221
 Ion Ratio Lower Upper
 62 100
 98 6.3 4.4 6.6



#38
 Trichloroethene
 Concen: 1.027 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. -0.01 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

Tgt Ion: 130 Resp: 59369
 Ion Ratio Lower Upper
 130 100
 95 113.9 89.8 134.8
 132 85.9 76.6 115.0
 97 76.0 58.6 88.0





#39

1,2-Dichloropropane

Concen: 0.984 ppbv

RT: 7.73 min Scan# 1492

Delta R.T. -0.01 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT1-2019

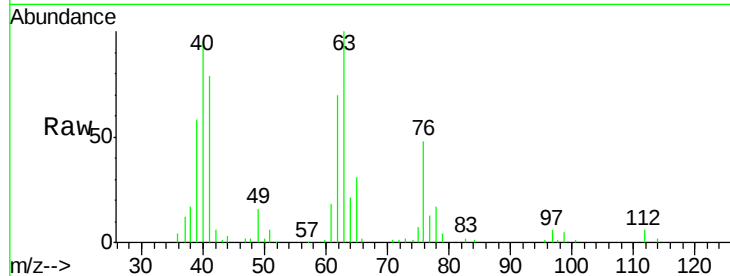
Tgt Ion: 63 Resp: 59181

Ion Ratio Lower Upper

63 100

41 78.8 61.2 91.8

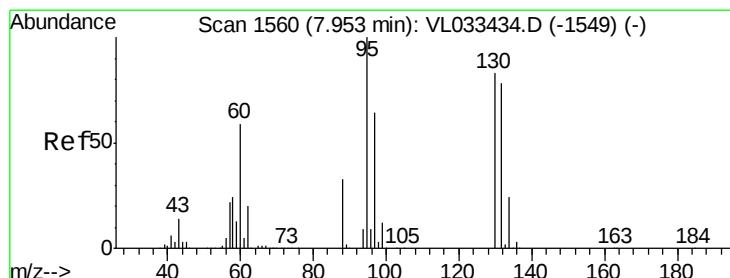
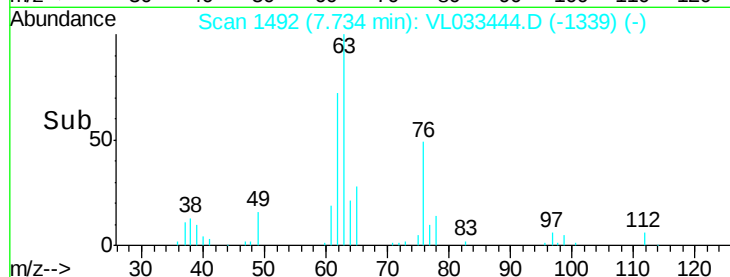
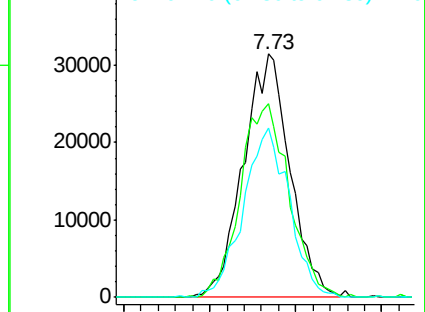
62 69.7 54.0 81.0



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: 0.275 ppbv

RT: 7.97 min Scan# 1565

Delta R.T. 0.02 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Tgt Ion: 88 Resp: 5901

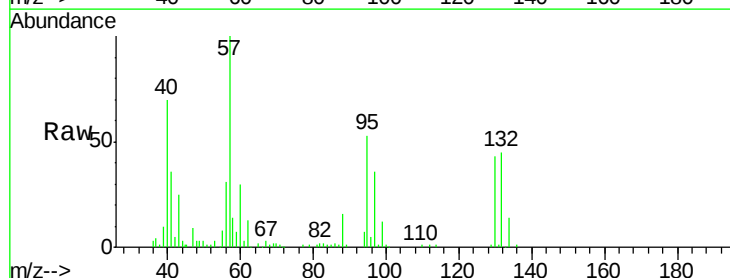
Ion Ratio Lower Upper

88 100

58 0.0 105.6 158.4#

43 0.0 216.7 325.1#

57 0.0 975.0 1462.4#

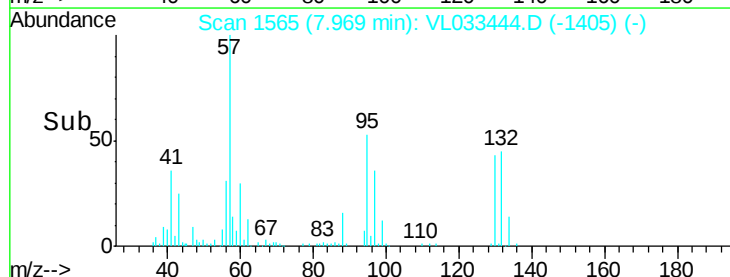
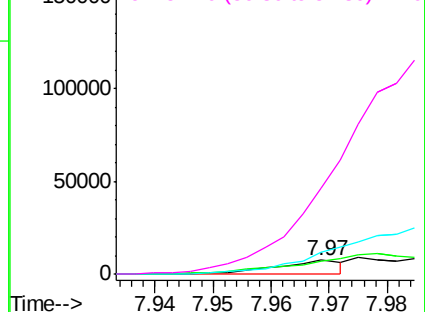


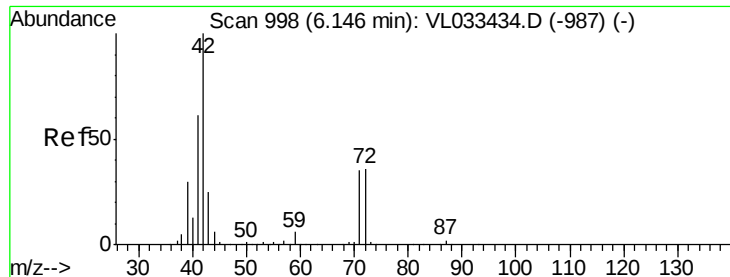
Abundance Ion 88.10 (87.80 to 88.80): VL0

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: 0.914 ppbv

RT: 6.16 min Scan# 1003

Delta R.T. 0.02 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT1-2019

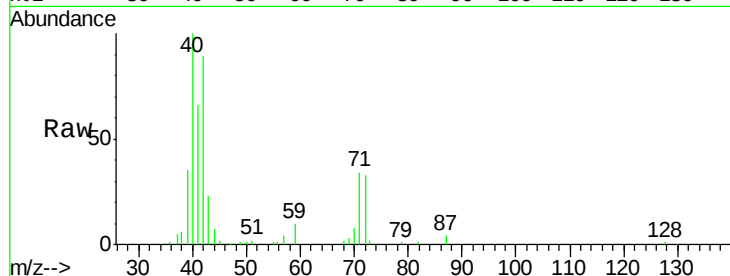
Tgt Ion: 42 Resp: 55307

Ion Ratio Lower Upper

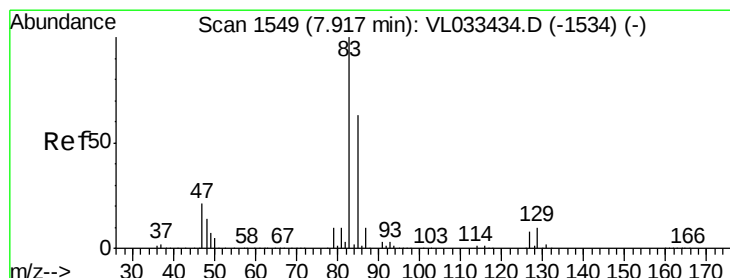
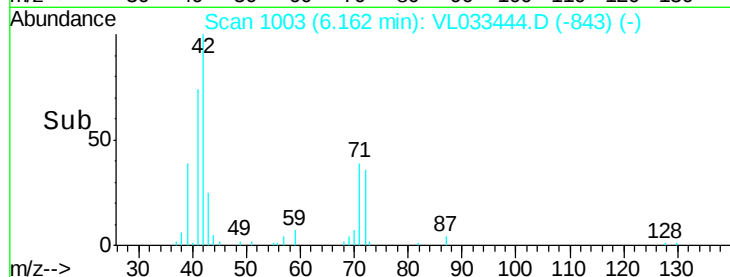
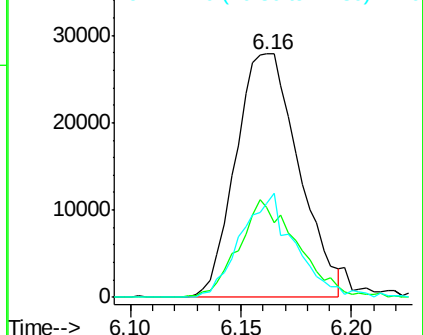
42 100

72 37.8 30.2 45.2

71 37.1 29.4 44.2



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: 0.942 ppbv

RT: 7.91 min Scan# 1547

Delta R.T. -0.01 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

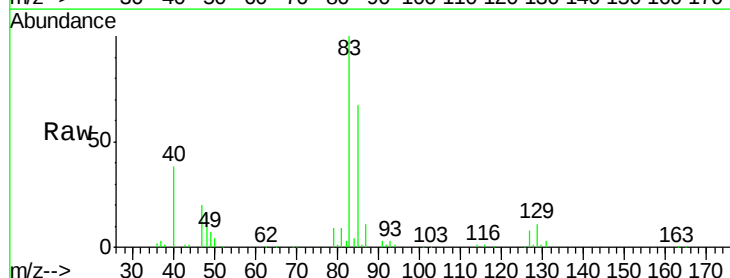
Tgt Ion: 83 Resp: 132084

Ion Ratio Lower Upper

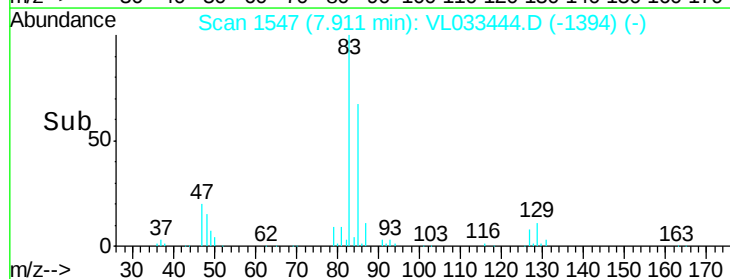
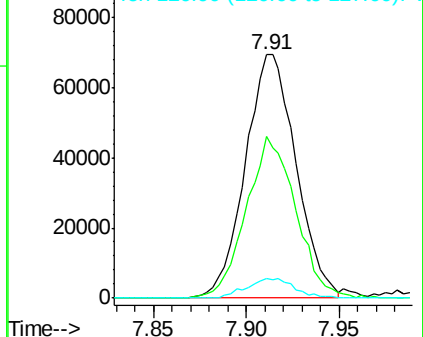
83 100

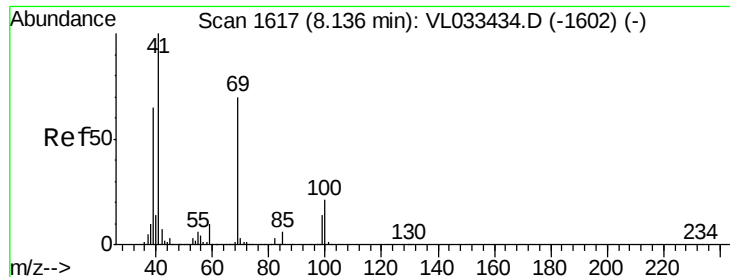
85 66.6 50.7 76.1

127 7.8 6.6 9.8



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

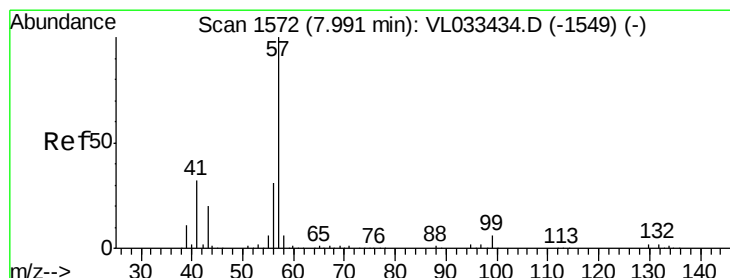
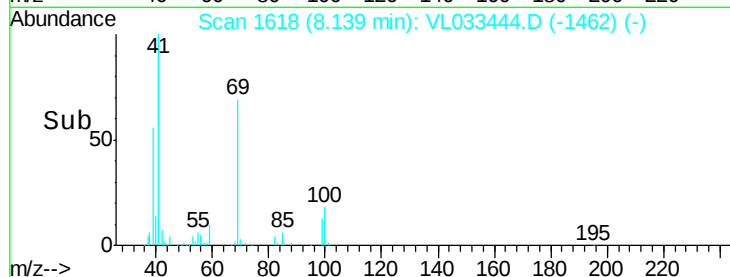
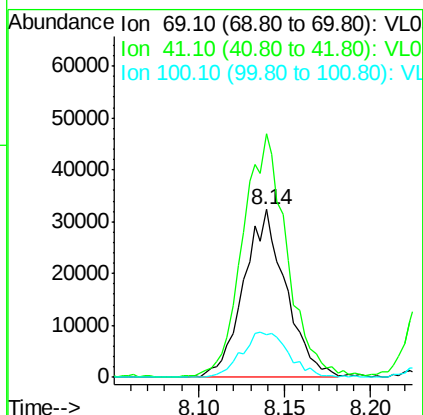
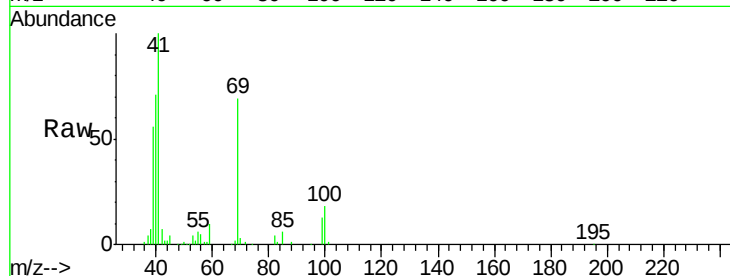




#43
Methyl Methacrylate
Concen: 0.889 ppbv
RT: 8.14 min Scan# 1618
Delta R.T. 0.00 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

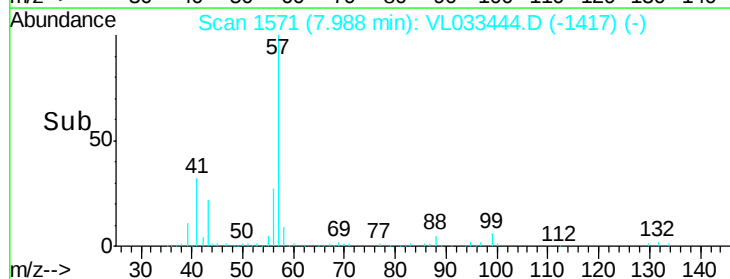
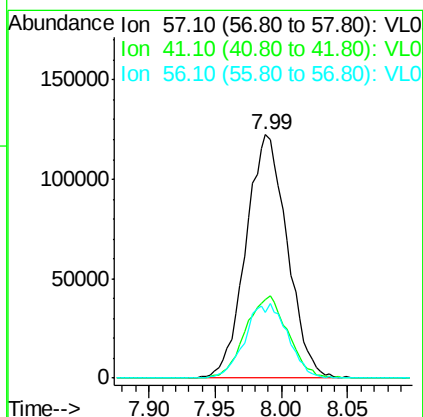
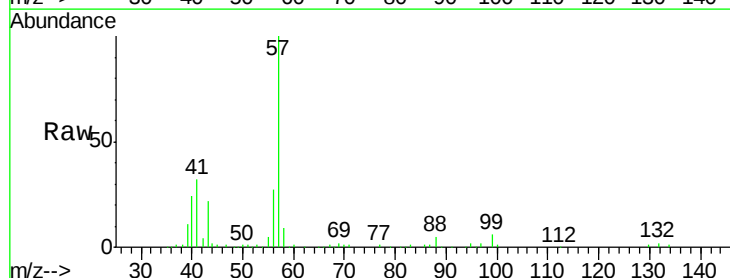
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT1-2019

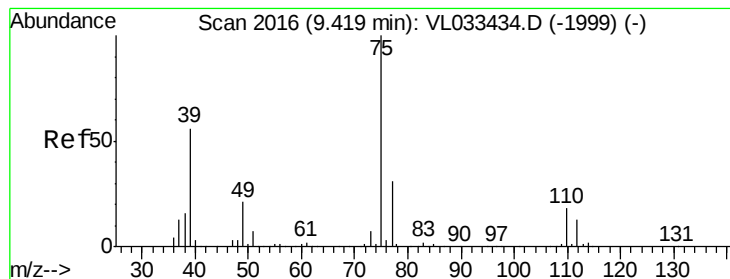
Tgt Ion: 69 Resp: 55425
Ion Ratio Lower Upper
69 100
41 151.9 116.6 174.8
100 30.2 24.4 36.6



#44
2,2,4-Trimethylpentane
Concen: 0.989 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

Tgt Ion: 57 Resp: 265429
Ion Ratio Lower Upper
57 100
41 34.6 26.0 39.0
56 31.5 24.6 37.0





#45

t-1,3-Dichloropropene

Concen: 0.830 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. -0.01 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

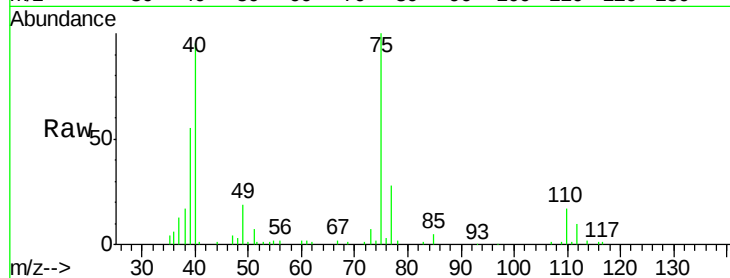
LOQ-AIR-02-QT1-2019

Tgt Ion: 75 Resp: 63559

Ion Ratio Lower Upper

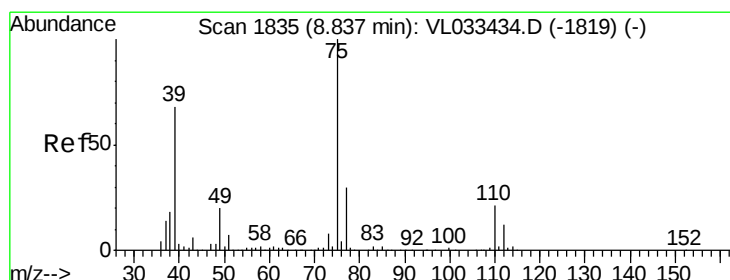
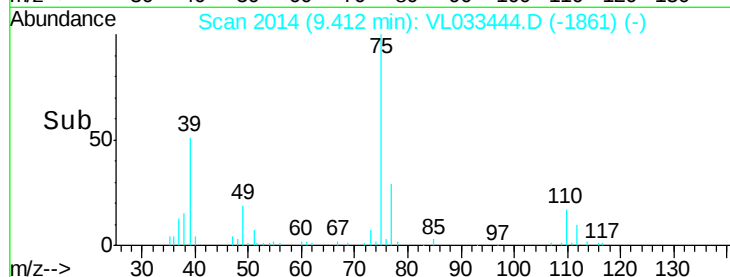
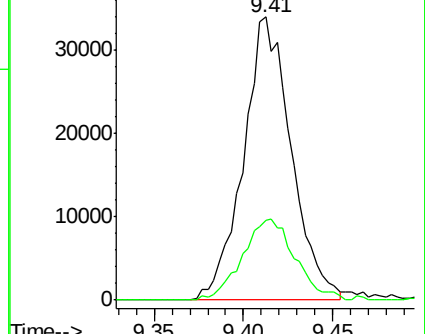
75 100

77 28.2 24.5 36.7



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: 0.839 ppbv

RT: 8.83 min Scan# 1833

Delta R.T. -0.01 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

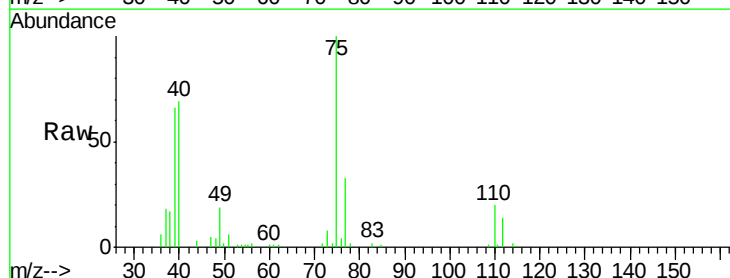
Tgt Ion: 75 Resp: 75058

Ion Ratio Lower Upper

75 100

39 66.5 54.1 81.1

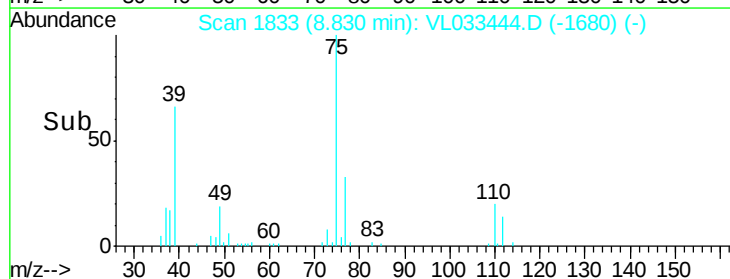
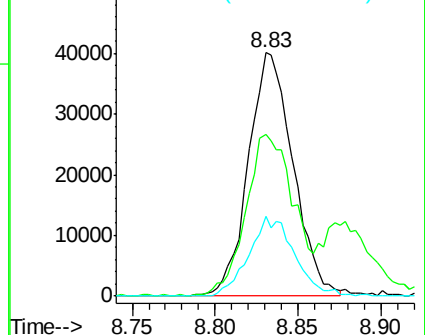
77 32.7 23.9 35.9

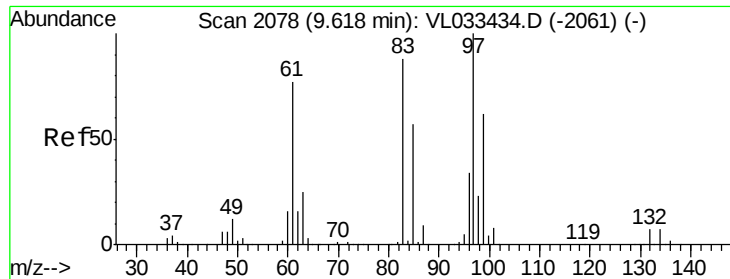


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

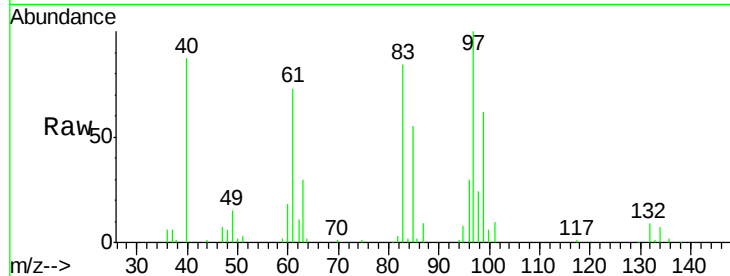




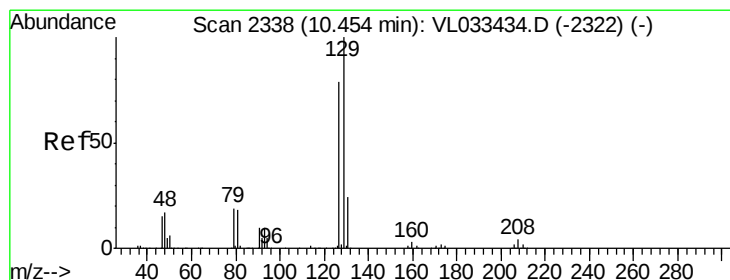
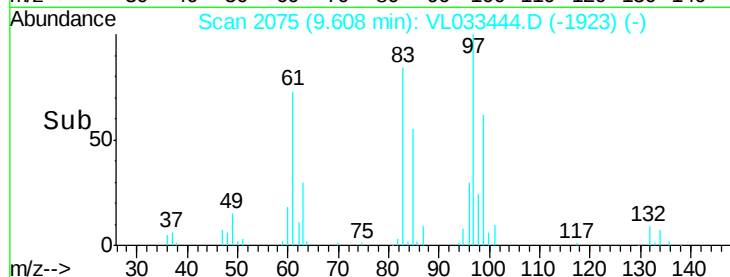
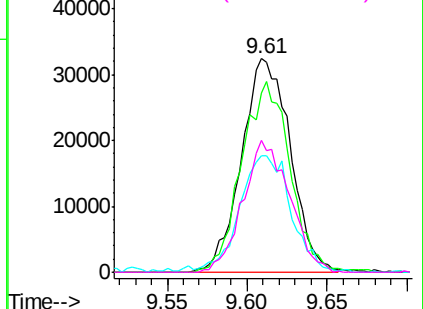
#47
 1,1,2-Trichloroethane
 Concen: 0.989 ppbv
 RT: 9.61 min Scan# 2075
 Delta R.T. -0.01 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT1-2019

Tgt Ion: 97 Resp: 67544
 Ion Ratio Lower Upper
 97 100
 83 83.9 70.5 105.7
 85 55.8 45.6 68.4
 99 62.0 49.4 74.0

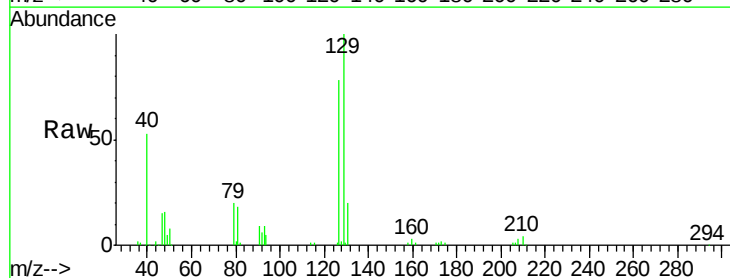


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

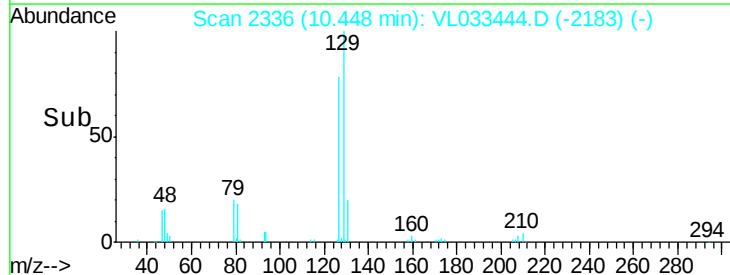
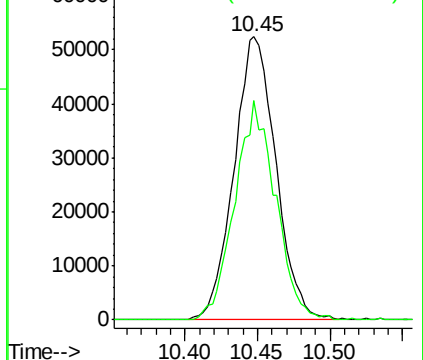


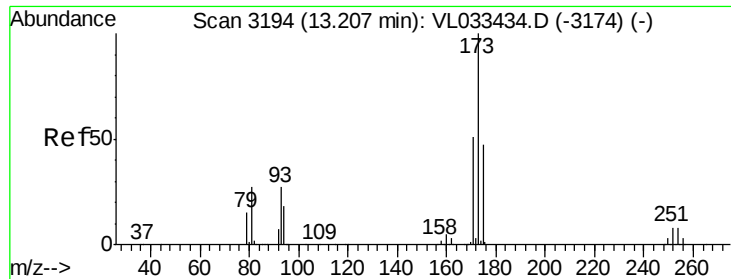
#48
 Dibromochloromethane
 Concen: 0.916 ppbv
 RT: 10.45 min Scan# 2336
 Delta R.T. -0.01 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

Tgt Ion: 129 Resp: 105567
 Ion Ratio Lower Upper
 129 100
 127 75.2 39.1 117.2



Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.816 ppbv

RT: 13.20 min Scan# 3192

Delta R.T. -0.01 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT1-2019

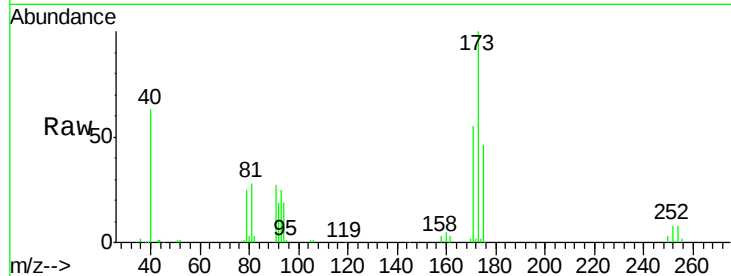
Tgt Ion: 173 Resp: 89864

Ion Ratio Lower Upper

173 100

175 46.1 39.3 58.9

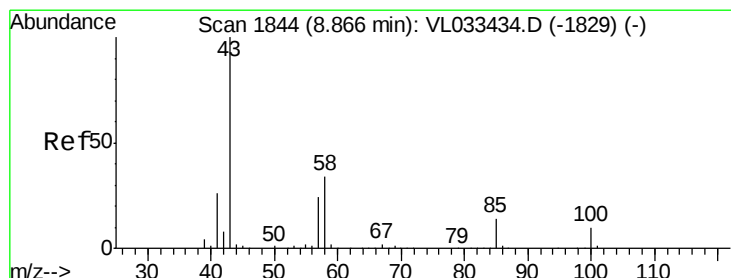
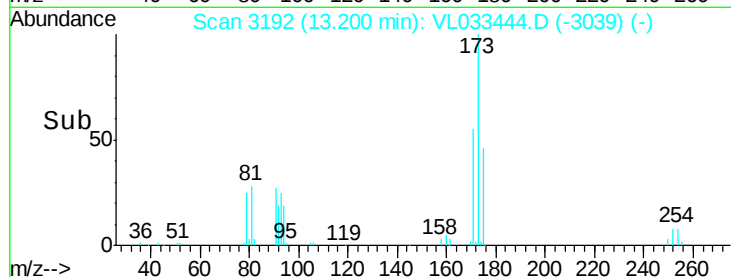
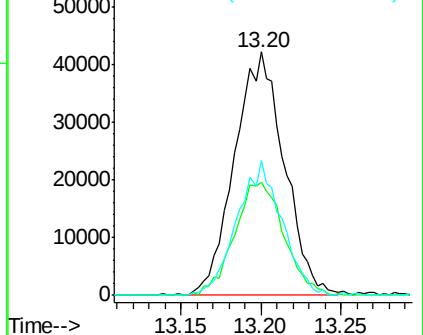
171 50.0 41.2 61.8



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: 0.951 ppbv

RT: 8.88 min Scan# 1848

Delta R.T. 0.01 min

Lab File: VL033444.D

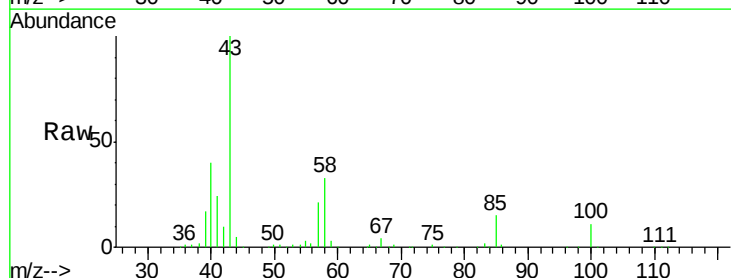
Acq: 25 Mar 2019 20:12

Tgt Ion: 43 Resp: 153076

Ion Ratio Lower Upper

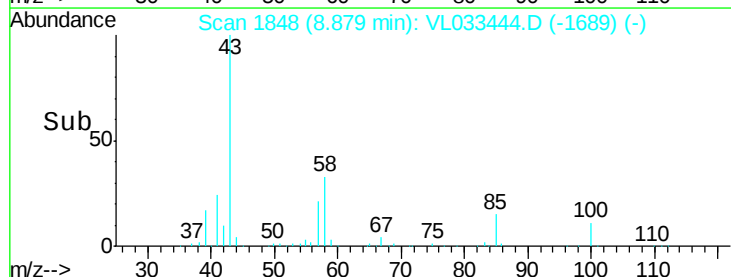
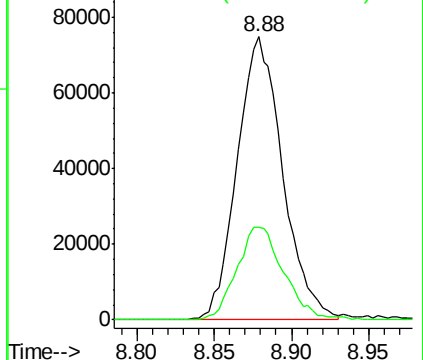
43 100

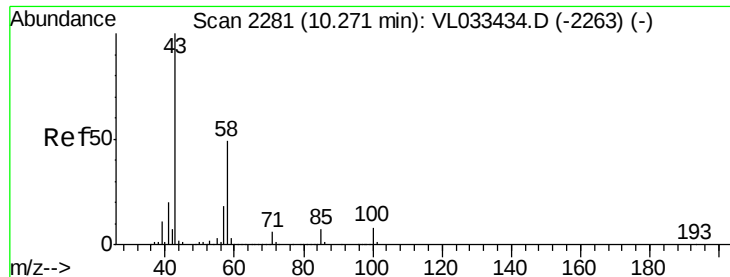
58 33.9 28.0 42.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 0.341 ppbv

RT: 10.28 min Scan# 2283

Delta R.T. 0.01 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT1-2019

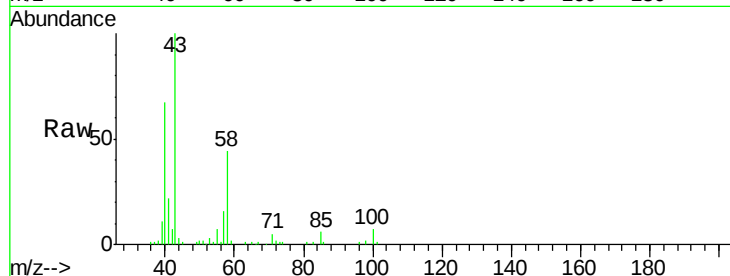
Tgt Ion: 43 Resp: 40957

Ion Ratio Lower Upper

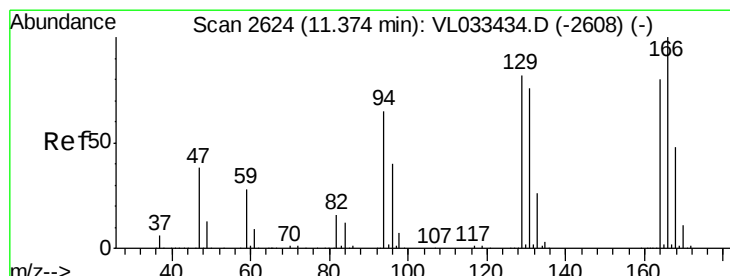
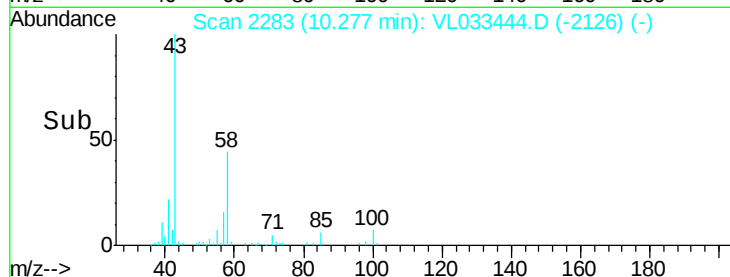
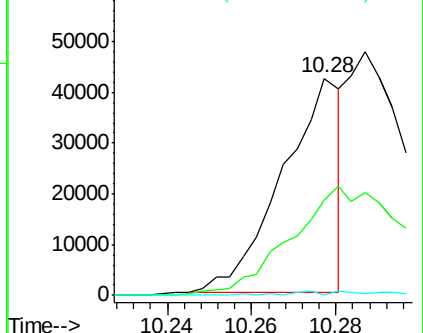
43 100

58 112.8 38.2 57.2#

98 2.3 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: 0.579 ppbv

RT: 11.37 min Scan# 2623

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Tgt Ion: 164 Resp: 33558

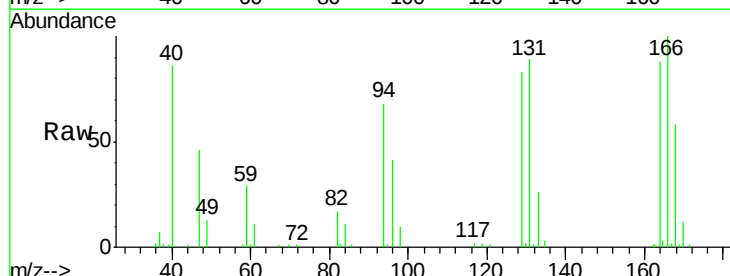
Ion Ratio Lower Upper

164 100

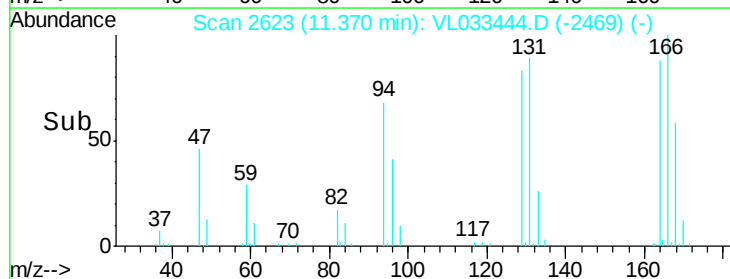
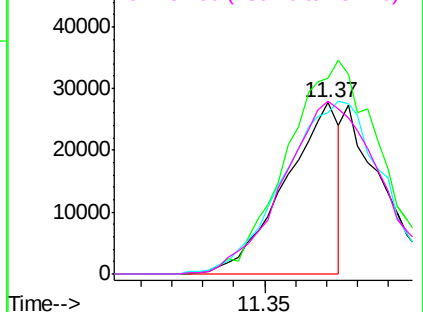
166 109.7 99.5 149.3

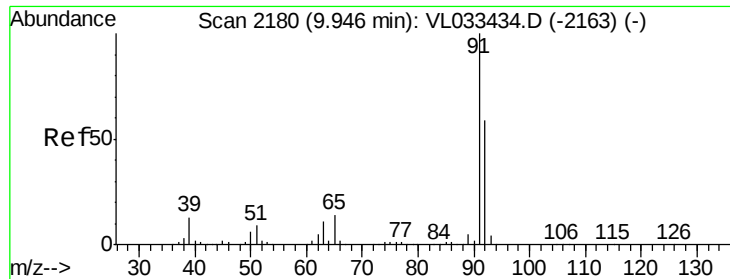
129 92.2 81.4 122.2

131 97.2 75.6 113.4



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: 0.889 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

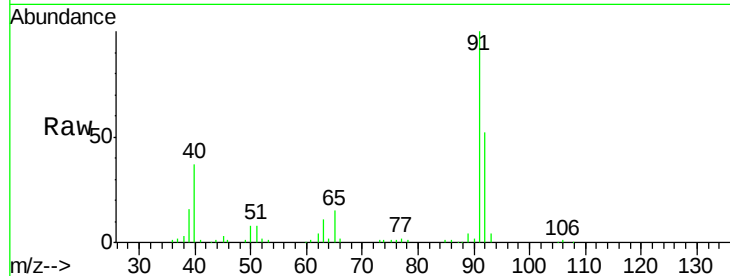
LOQ-AIR-02-QT1-2019

Tgt Ion: 91 Resp: 158686

Ion Ratio Lower Upper

91 100

92 59.7 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.95

80000

60000

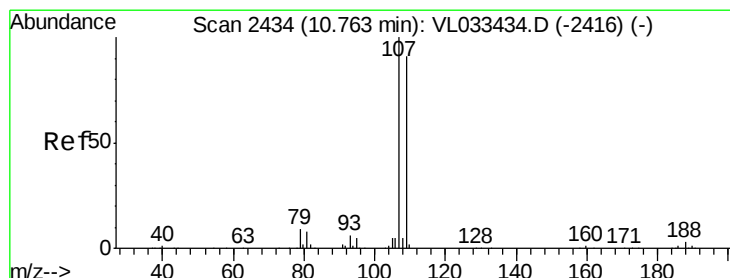
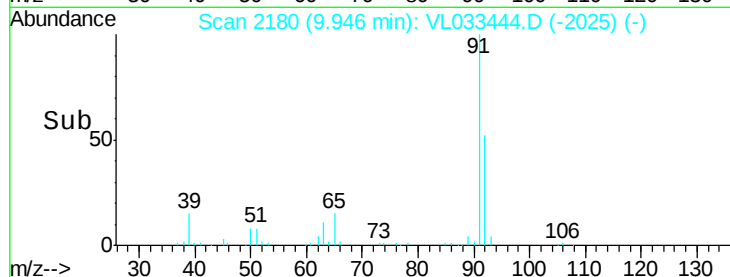
40000

20000

0

9.90 10.00

Time-->



#54

1,2-Dibromoethane

Concen: 0.933 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. -0.01 min

Lab File: VL033444.D

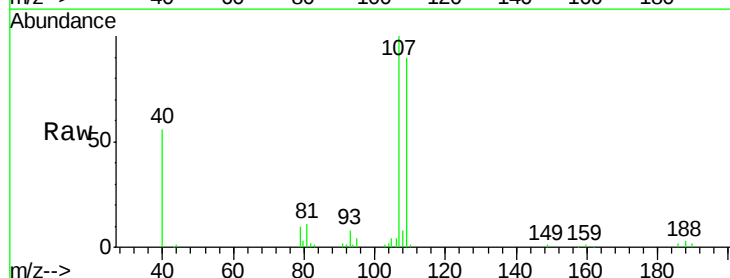
Acq: 25 Mar 2019 20:12

Tgt Ion: 107 Resp: 99685

Ion Ratio Lower Upper

107 100

109 89.2 72.7 109.1



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

10.76

50000

40000

30000

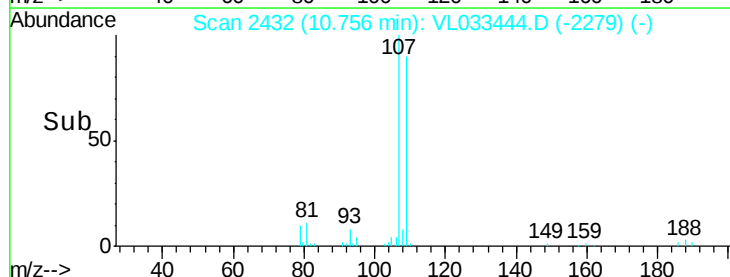
20000

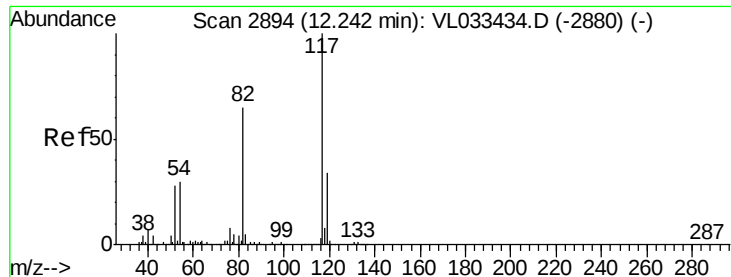
10000

0

10.70 10.75 10.80

Time-->





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT1-2019

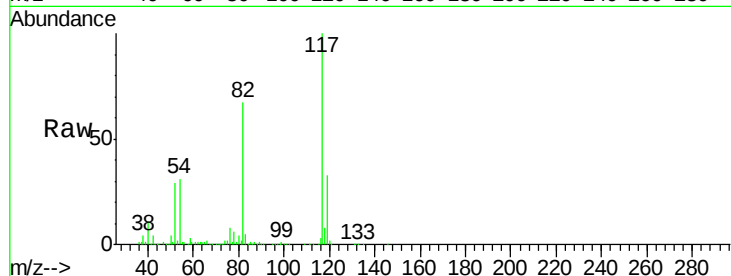
Tgt Ion:117 Resp: 1814749

Ion Ratio Lower Upper

117 100

82 65.5 51.5 77.3

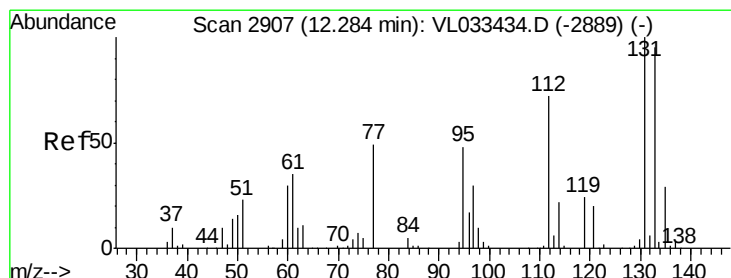
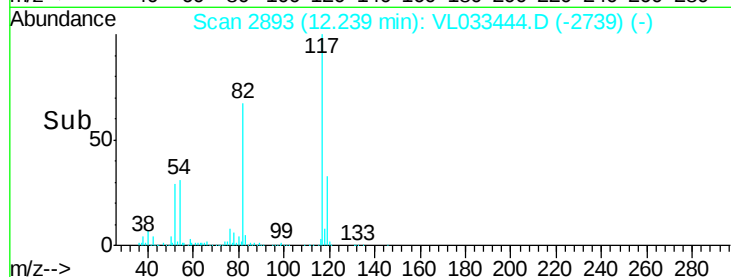
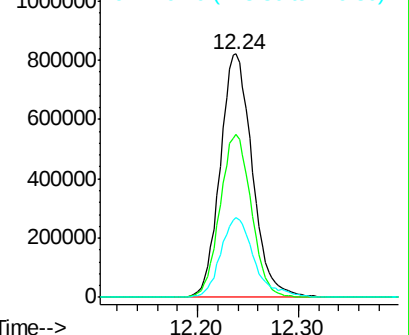
119 34.2 25.5 38.3



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 0.965 ppbv

RT: 12.28 min Scan# 2907

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

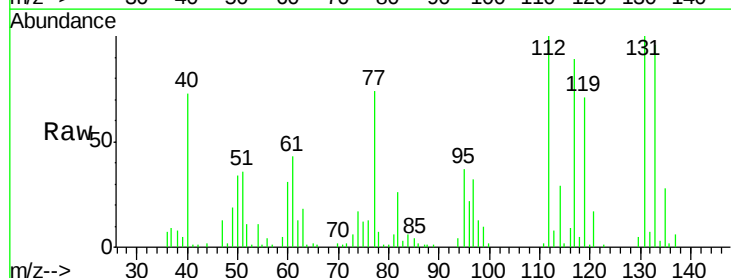
Tgt Ion:131 Resp: 80291

Ion Ratio Lower Upper

131 100

133 96.8 76.2 114.4

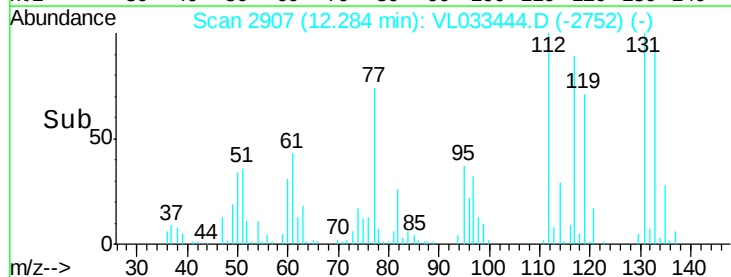
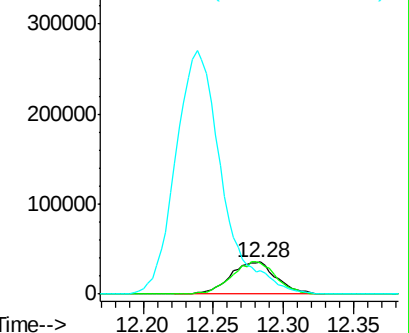
119 774.2 45.0 67.6#

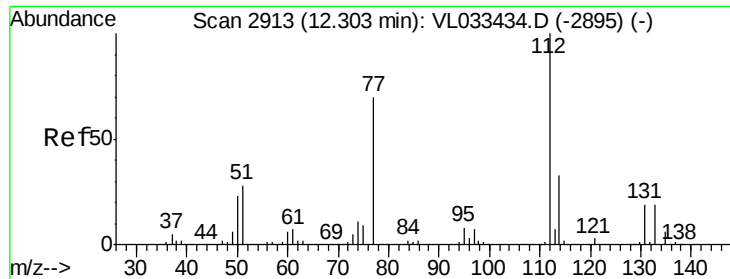


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

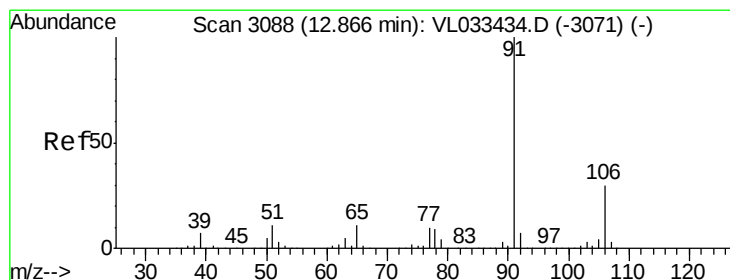
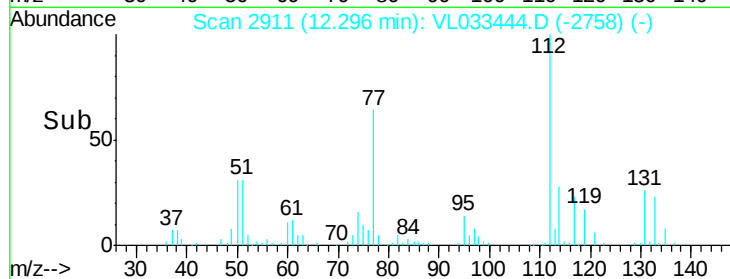
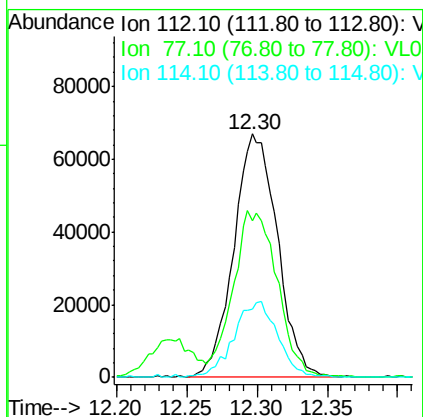
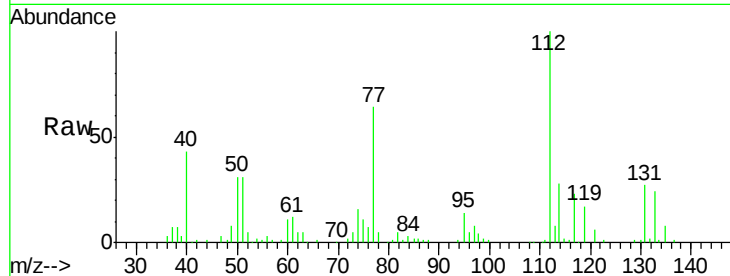




#57
Chlorobenzene
Concen: 1.031 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. -0.01 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

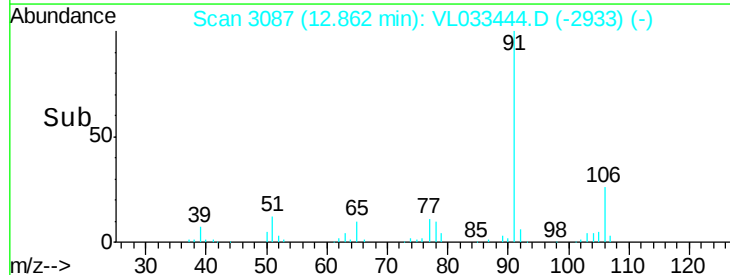
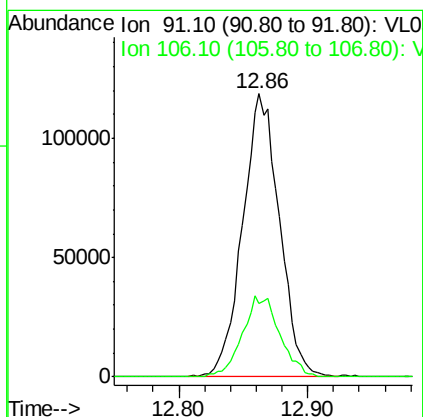
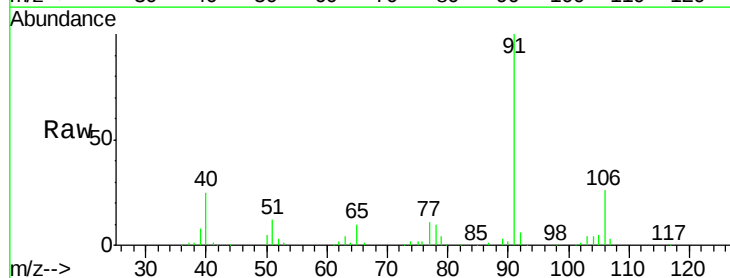
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT1-2019

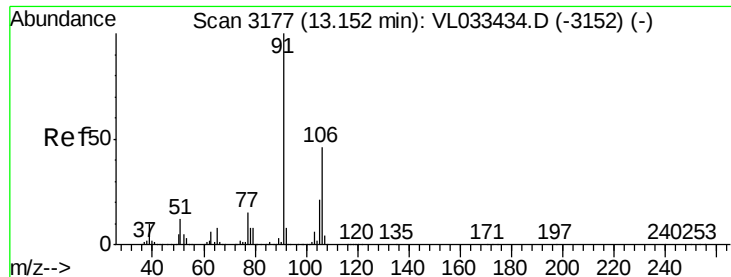
Tgt Ion: 112 Resp: 145214
Ion Ratio Lower Upper
112 100
77 63.6 57.3 85.9
114 27.9 29.8 36.4#



#58
Ethyl Benzene
Concen: 0.973 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

Tgt Ion: 91 Resp: 235860
Ion Ratio Lower Upper
91 100
106 25.8 23.8 35.6

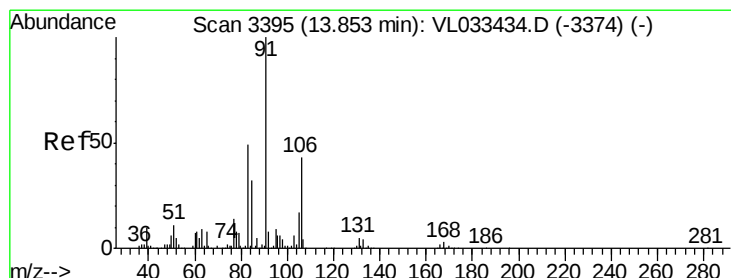
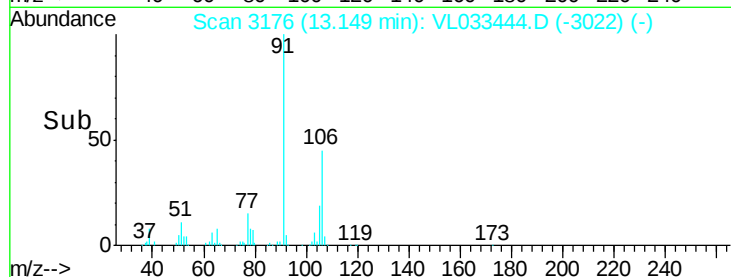
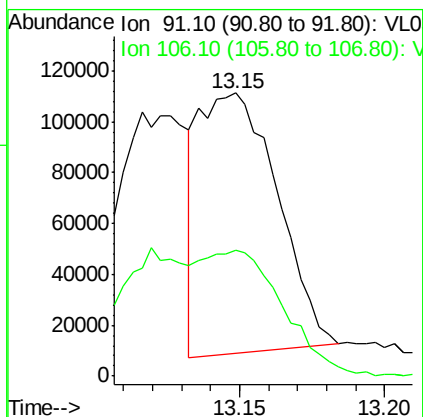
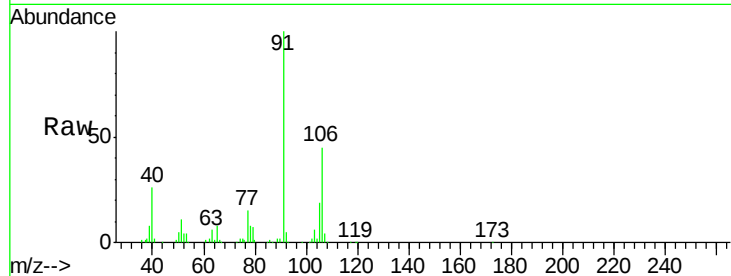




#59
m/p-Xylene
Concen: 0.881 ppbv
RT: 13.15 min Scan# 3176
Delta R.T. -0.00 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

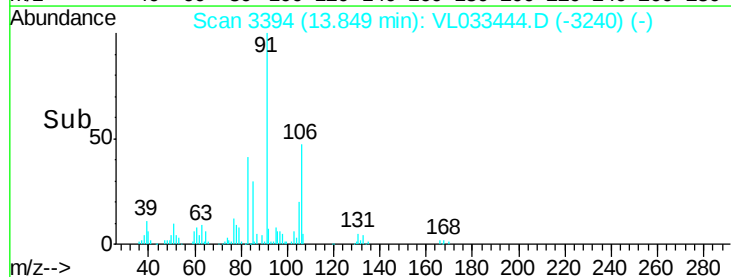
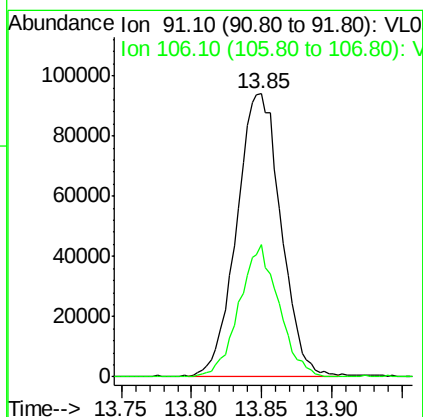
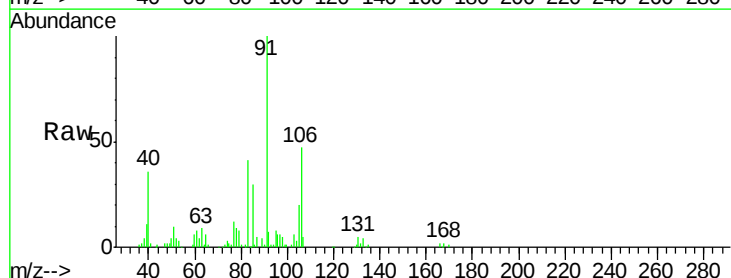
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT1-2019

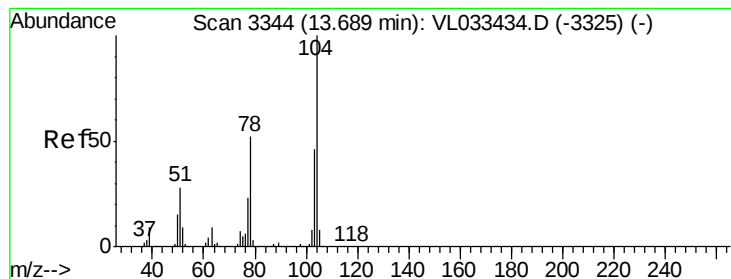
Tgt Ion: 91 Resp: 190741
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0



#60
o-Xylene
Concen: 0.979 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. -0.00 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

Tgt Ion: 91 Resp: 204943
Ion Ratio Lower Upper
91 100
106 42.2 21.4 64.3





#61

Styrene

Concen: 0.920 ppbv

RT: 13.69 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT1-2019

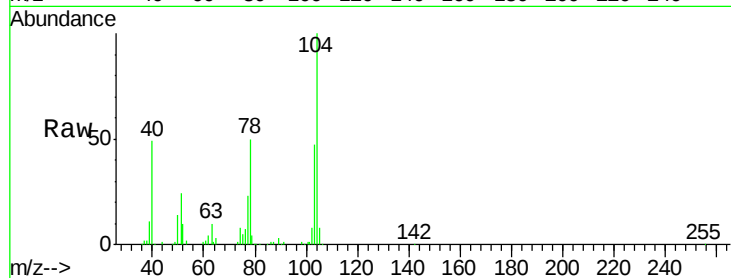
Tgt Ion:104 Resp: 132163

Ion Ratio Lower Upper

104 100

78 54.6 43.2 64.8

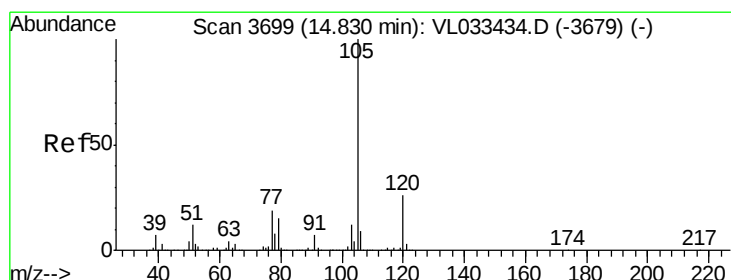
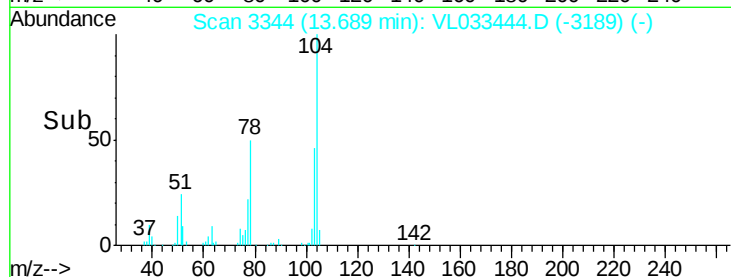
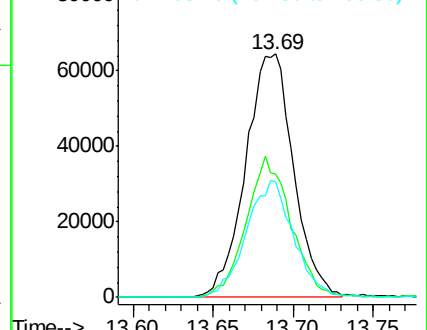
103 47.4 37.8 56.8



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.968 ppbv

RT: 14.82 min Scan# 3697

Delta R.T. -0.01 min

Lab File: VL033444.D

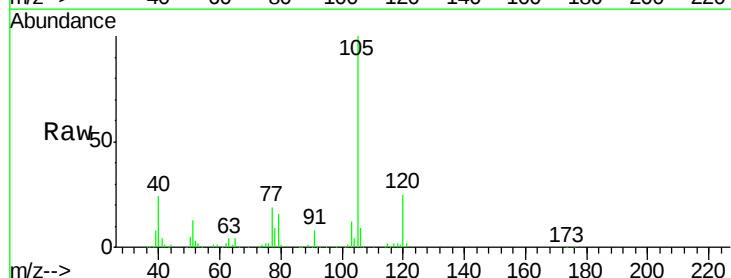
Acq: 25 Mar 2019 20:12

Tgt Ion:105 Resp: 287024

Ion Ratio Lower Upper

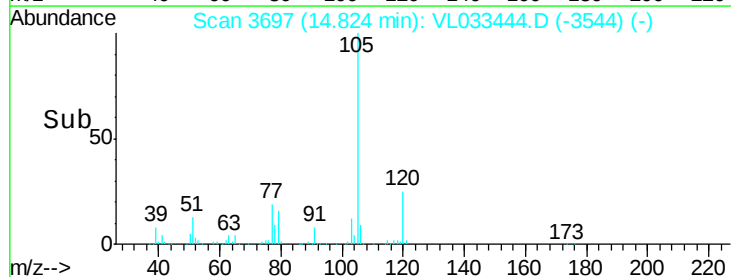
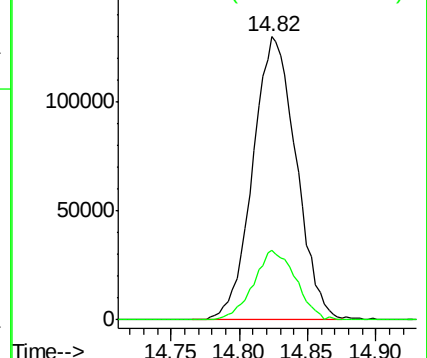
105 100

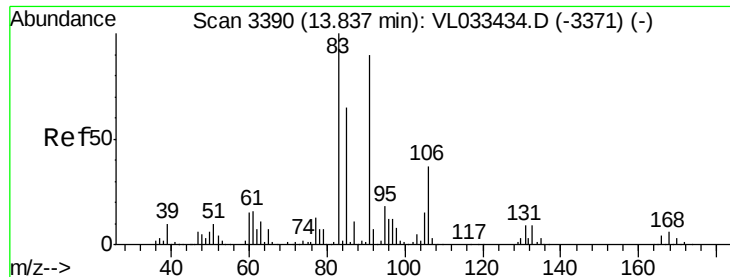
120 24.1 20.2 30.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

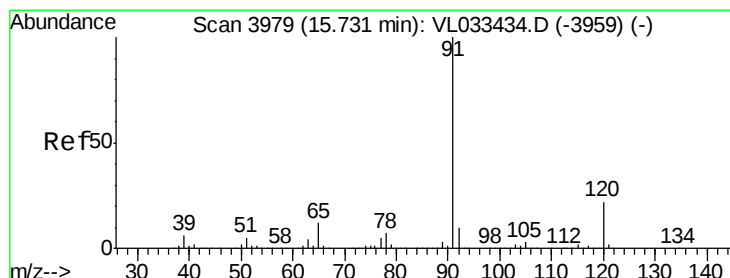
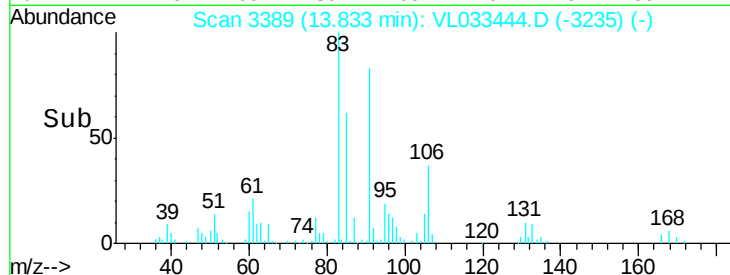
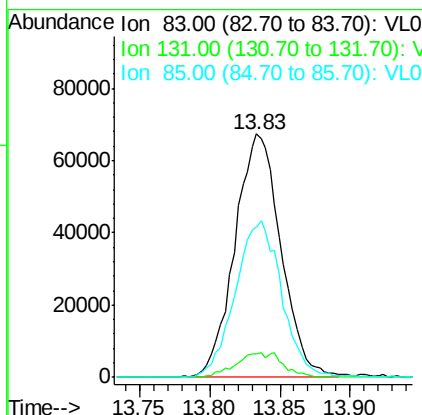
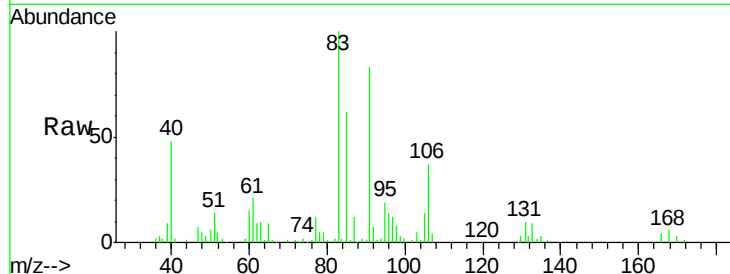




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.996 ppbv
 RT: 13.83 min Scan# 3389
 Delta R.T. -0.00 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

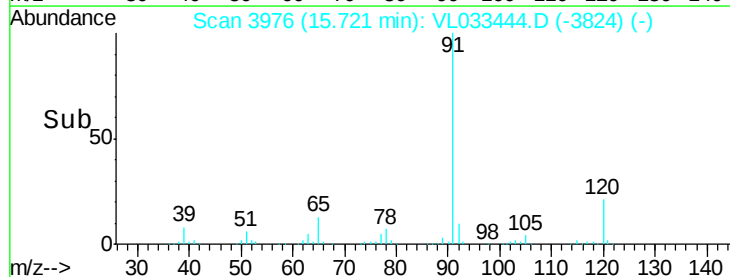
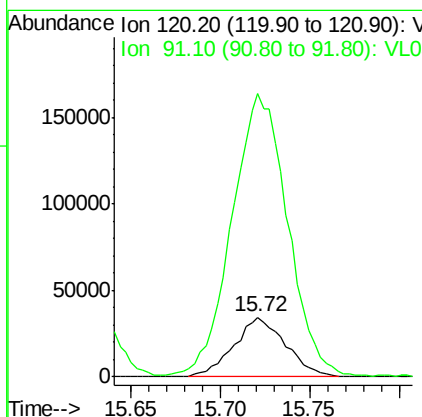
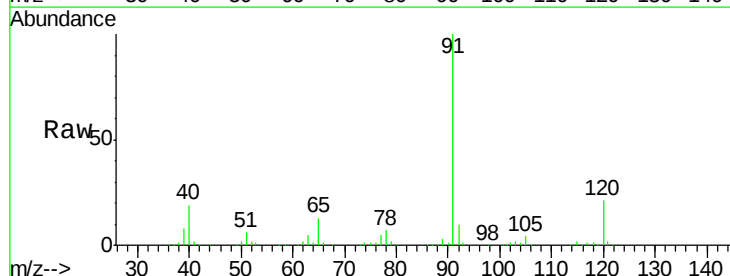
Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT1-2019

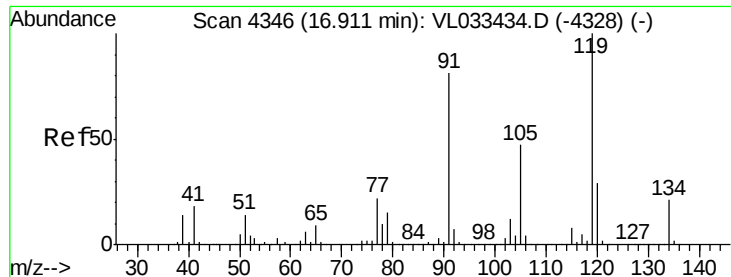
Tgt Ion: 83 Resp: 153479
 Ion Ratio Lower Upper
 83 100
 131 10.3 4.7 14.0
 85 65.6 32.7 98.1



#64
 n-propylbenzene
 Concen: 0.918 ppbv
 RT: 15.72 min Scan# 3976
 Delta R.T. -0.01 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

Tgt Ion: 120 Resp: 69017
 Ion Ratio Lower Upper
 120 100
 91 516.6 387.4 581.2

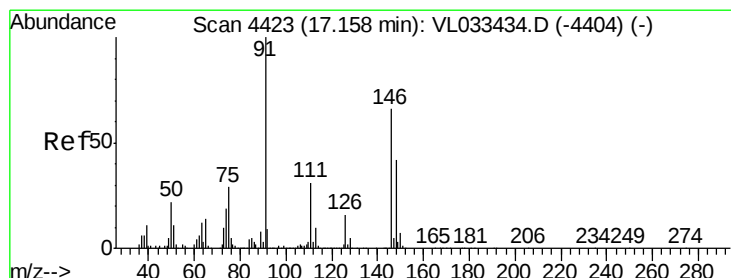
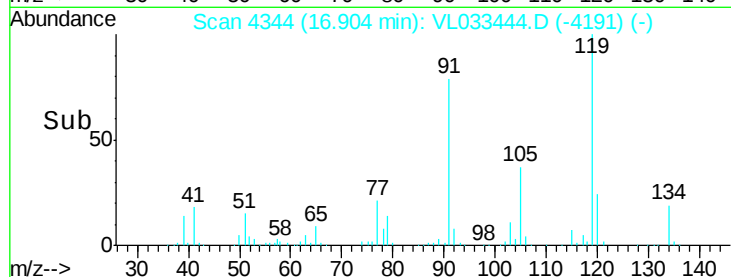
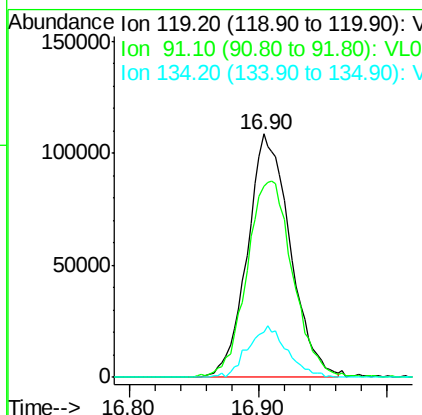
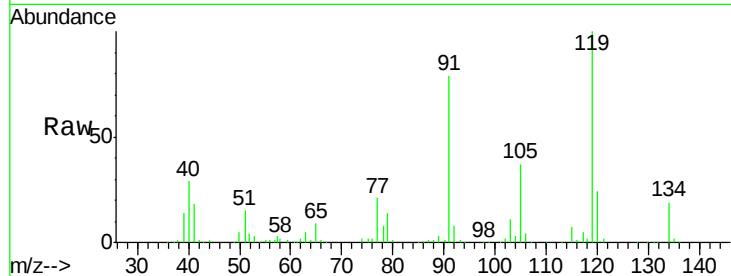




#65
 tert-Butylbenzene
 Concen: 0.959 ppbv
 RT: 16.90 min Scan# 4344
 Delta R.T. -0.01 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

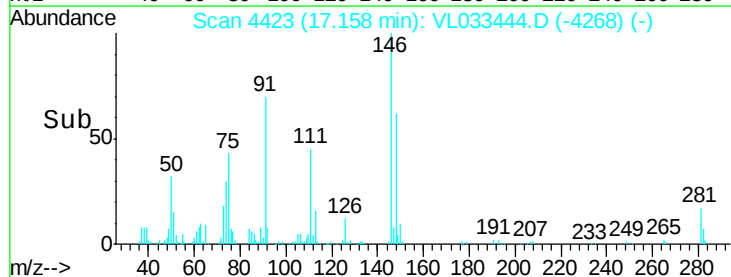
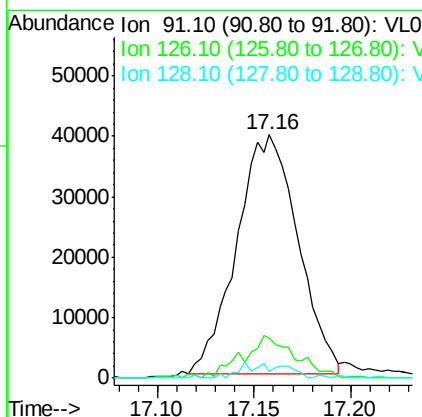
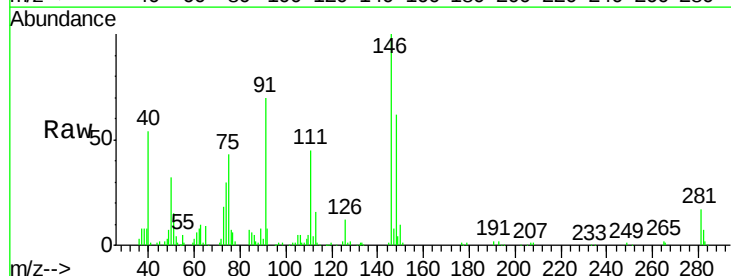
Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT1-2019

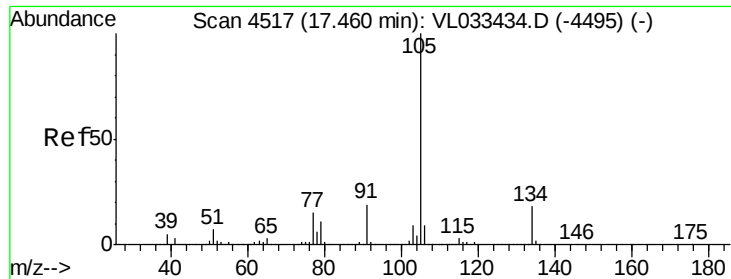
Tgt Ion: 119 Resp: 250578
 Ion Ratio Lower Upper
 119 100
 91 87.1 66.4 99.6
 134 19.5 15.5 23.3



#66
 Benzyl Chloride
 Concen: 0.716 ppbv
 RT: 17.16 min Scan# 4423
 Delta R.T. -0.00 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

Tgt Ion: 91 Resp: 87023
 Ion Ratio Lower Upper
 91 100
 126 16.2 13.0 19.6
 128 4.8 4.2 6.2

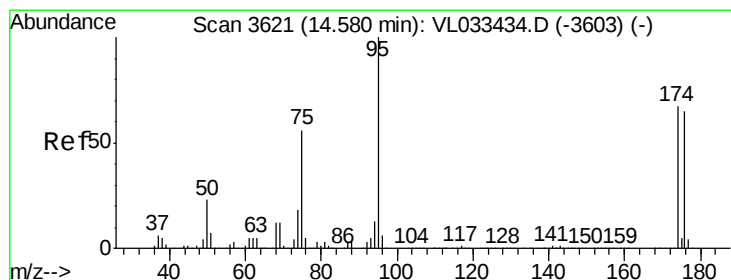
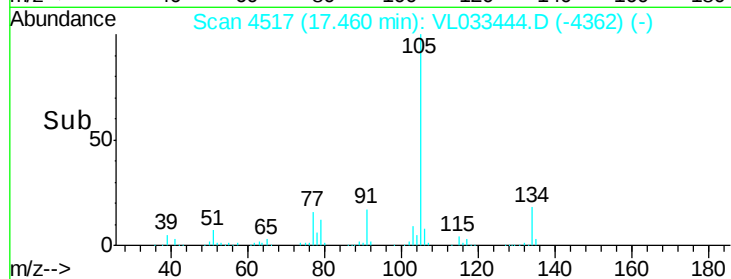
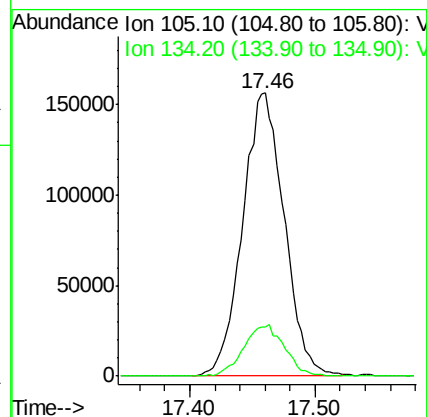
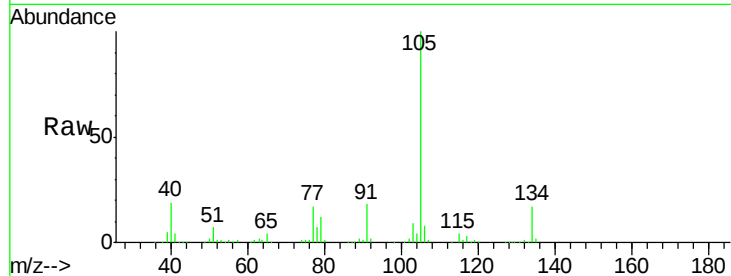




#67
 sec-Butylbenzene
 Concen: 0.970 ppbv
 RT: 17.46 min Scan# 4517
 Delta R.T. -0.00 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

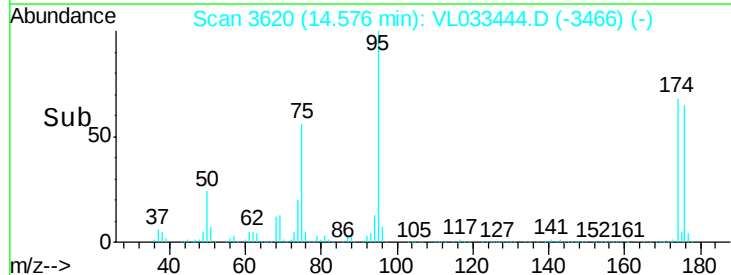
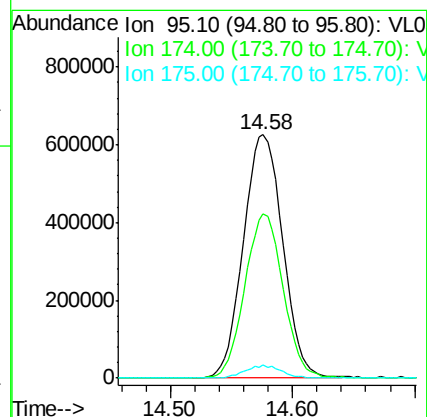
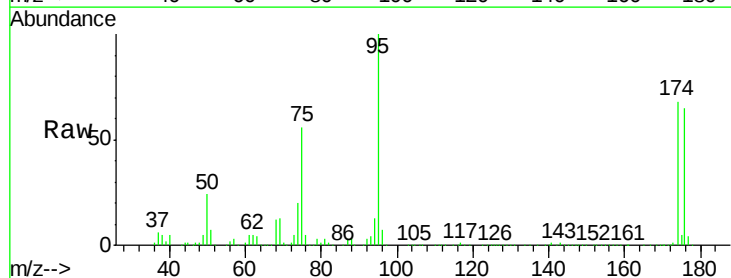
Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT1-2019

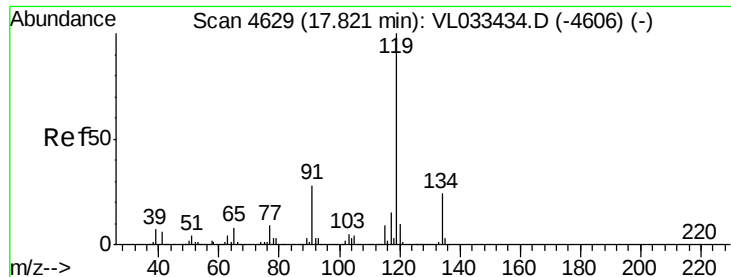
Tgt Ion: 105 Resp: 360348
 Ion Ratio Lower Upper
 105 100
 134 17.8 14.6 21.8



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.825 ppbv
 RT: 14.58 min Scan# 3620
 Delta R.T. -0.00 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

Tgt Ion: 95 Resp: 1397829
 Ion Ratio Lower Upper
 95 100
 174 66.1 52.9 79.3
 175 4.9 3.8 5.6

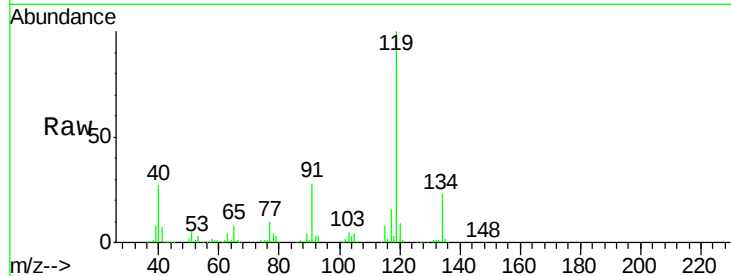




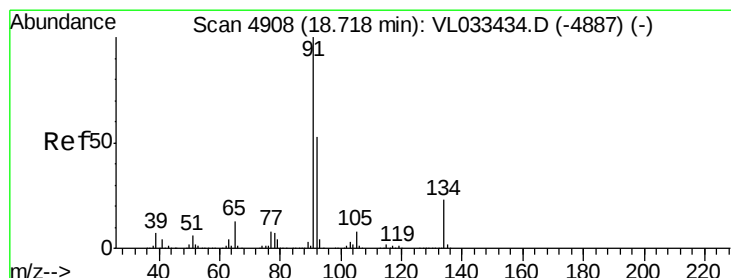
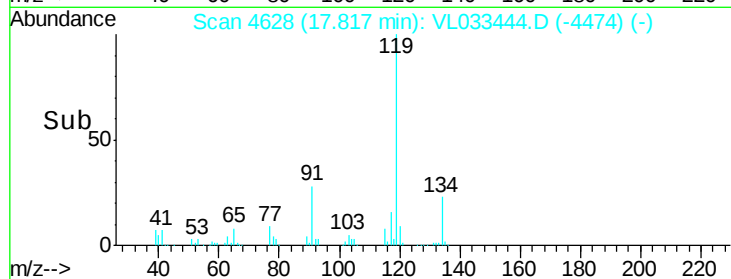
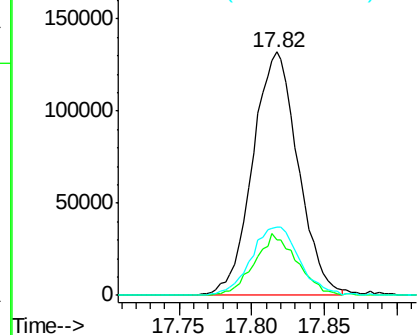
#69
p-Isopropyltoluene
Concen: 0.951 ppbv
RT: 17.82 min Scan# 4628
Delta R.T. -0.00 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT1-2019

Tgt Ion	Ratio	Lower	Upper
119	100		
134	23.9	19.9	29.9
91	30.4	23.4	35.0

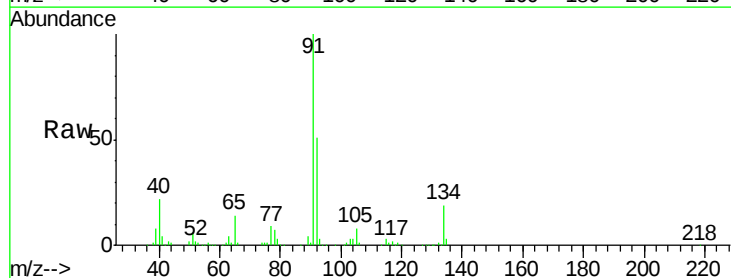


Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): V

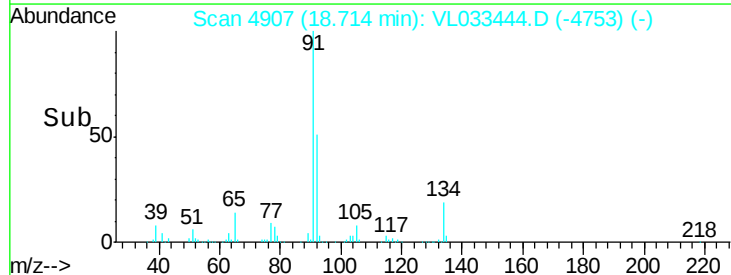
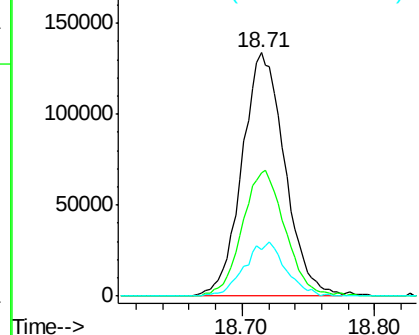


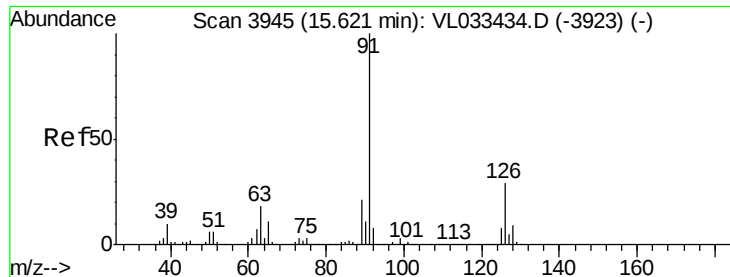
#70
n-Butylbenzene
Concen: 0.928 ppbv
RT: 18.71 min Scan# 4907
Delta R.T. -0.00 min
Lab File: VL033444.D
Acq: 25 Mar 2019 20:12

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.4	42.6	64.0
134	21.7	17.5	26.3



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: 0.947 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

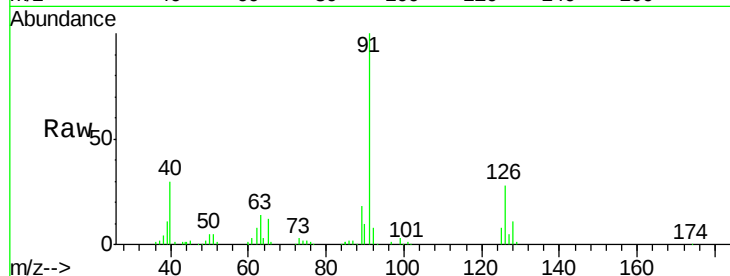
LOQ-AIR-02-QT1-2019

Tgt Ion: 91 Resp: 213402

Ion Ratio Lower Upper

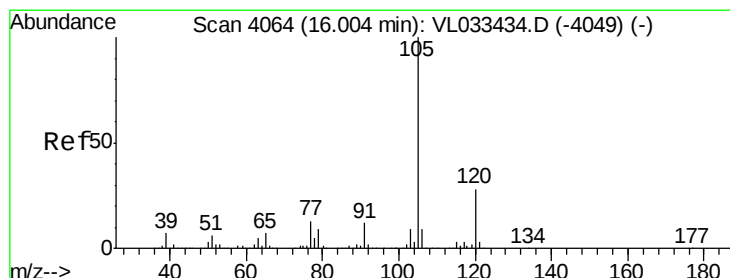
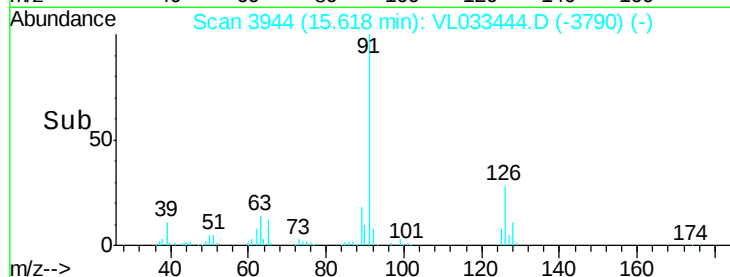
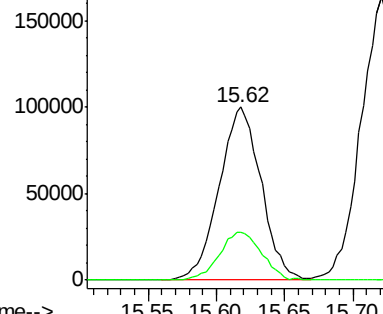
91 100

126 28.0 11.7 46.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.918 ppbv

RT: 16.00 min Scan# 4064

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Tgt Ion:105 Resp: 215905

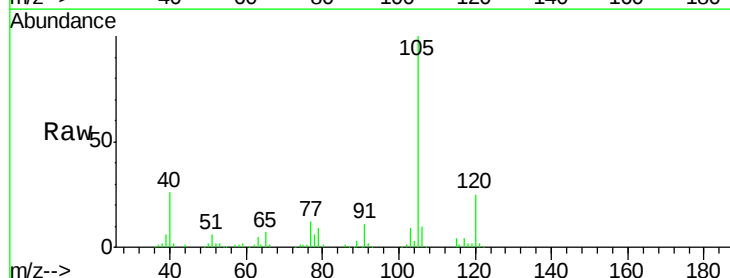
Ion Ratio Lower Upper

105 100

120 29.0 23.2 34.8

91 14.6 10.4 15.6

77 15.5 11.3 16.9

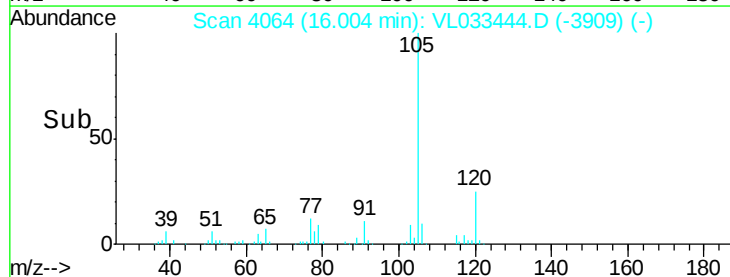
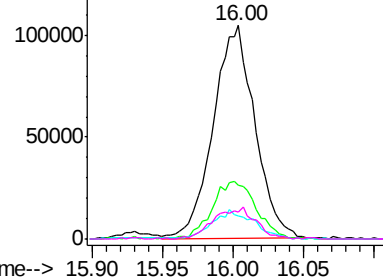


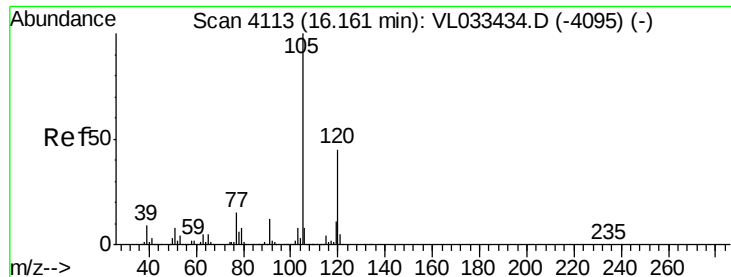
Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.534 ppbv

RT: 16.15 min Scan# 4111

Delta R.T. -0.01 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

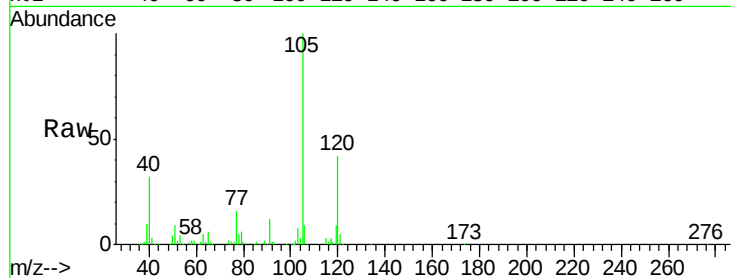
LOQ-AIR-02-QT1-2019

Tgt Ion:105 Resp: 120184

Ion Ratio Lower Upper

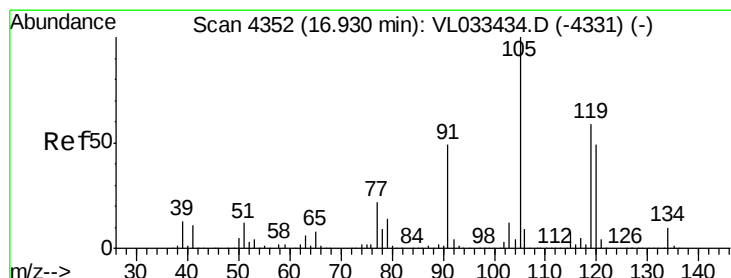
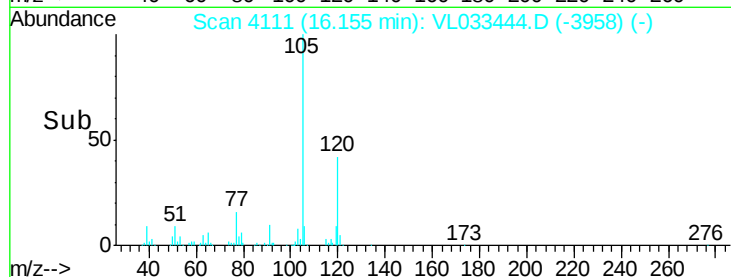
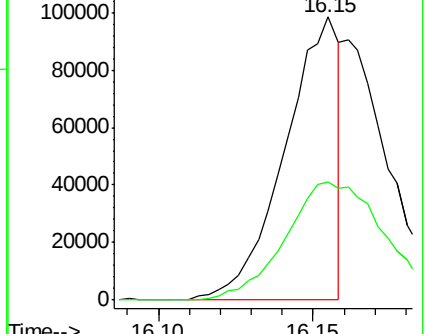
105 100

120 41.7 35.7 53.5



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: 0.949 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. -0.00 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Tgt Ion:105 Resp: 228976

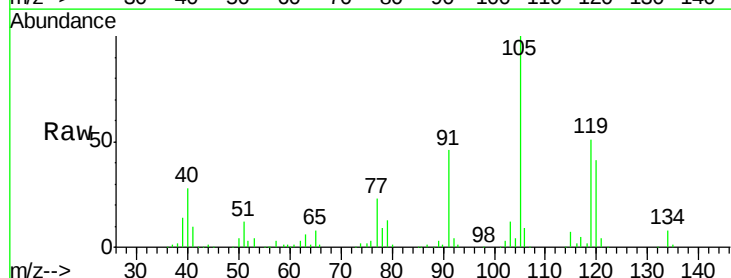
Ion Ratio Lower Upper

105 100

120 41.1 39.0 58.6

91 45.6 40.0 60.0

77 22.1 17.5 26.3

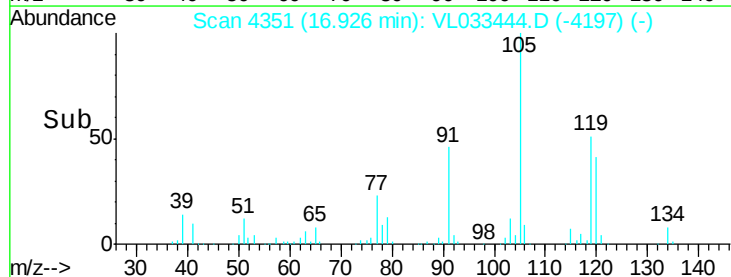
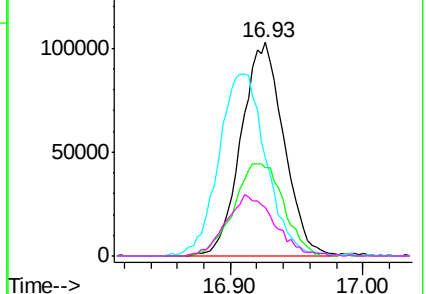


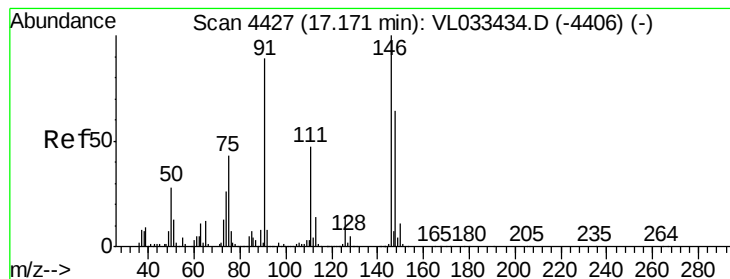
Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.968 ppbv

RT: 17.16 min Scan# 4424

Delta R.T. -0.01 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT1-2019

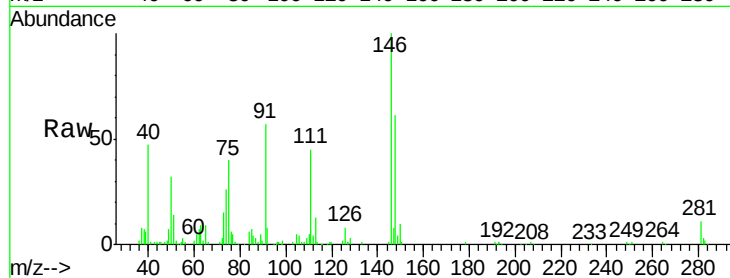
Tgt Ion:146 Resp: 144462

Ion Ratio Lower Upper

146 100

111 47.9 22.9 68.8

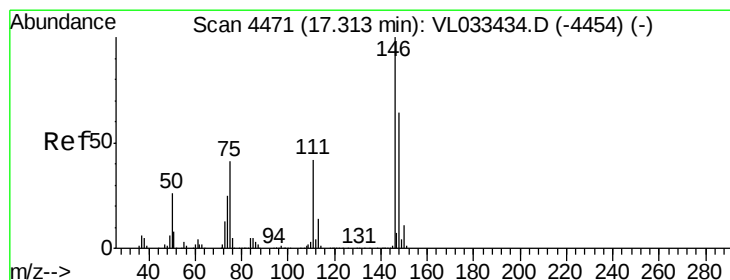
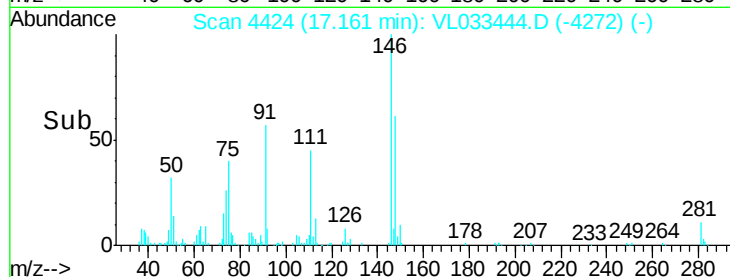
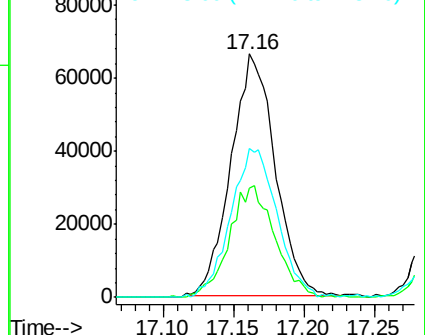
148 65.3 32.0 96.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 0.946 ppbv

RT: 17.31 min Scan# 4469

Delta R.T. -0.01 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

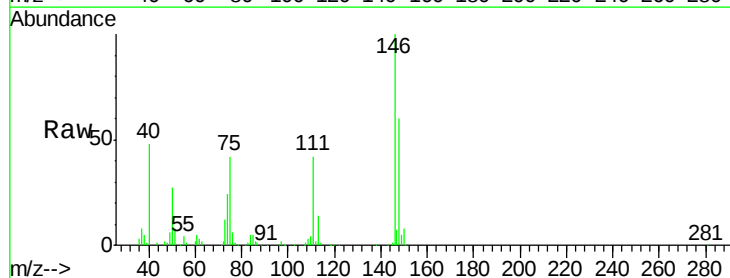
Tgt Ion:146 Resp: 137431

Ion Ratio Lower Upper

146 100

111 46.8 21.7 65.1

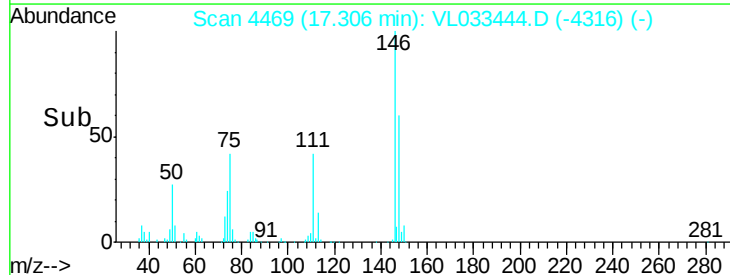
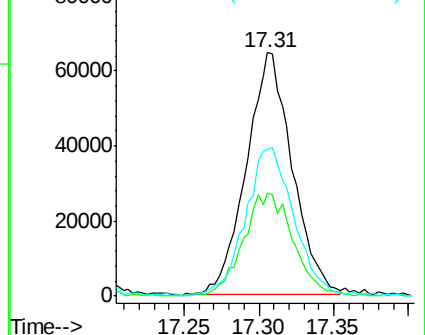
148 64.0 32.0 96.2

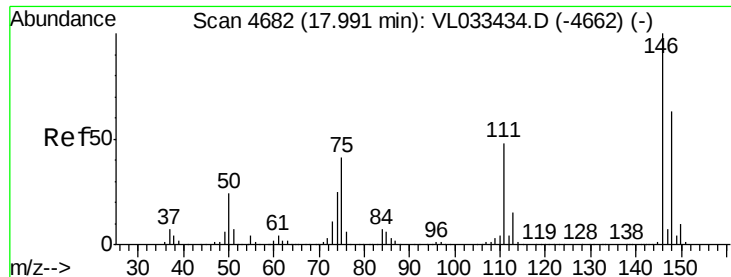


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

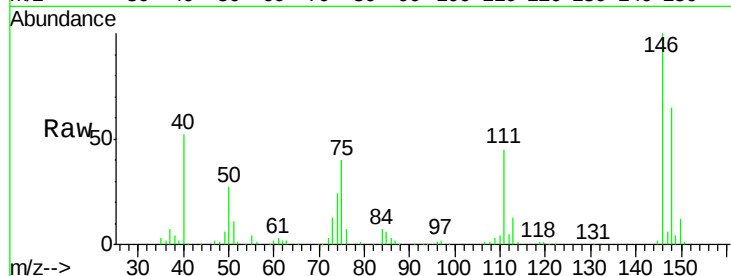




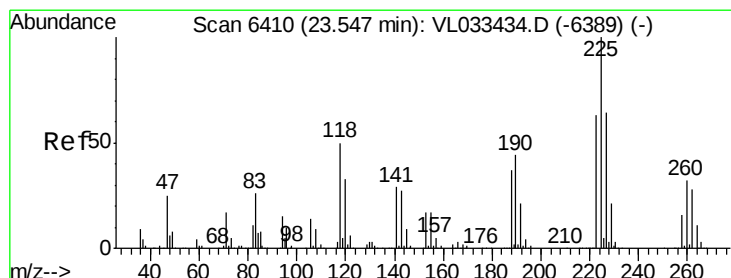
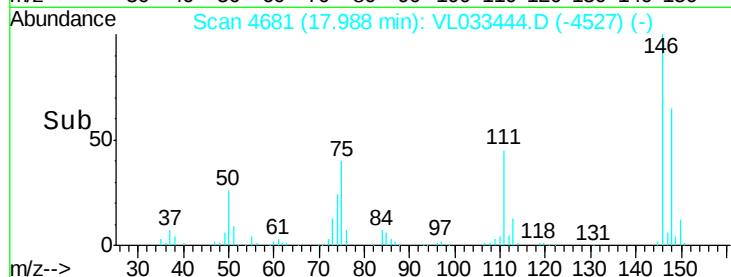
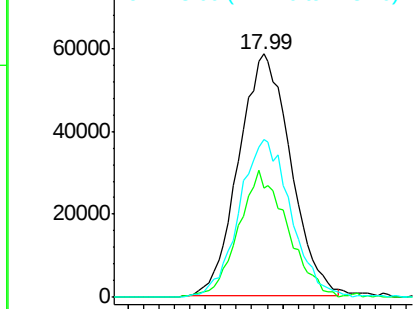
#77
 1,2-Dichlorobenzene
 Concen: 0.955 ppbv
 RT: 17.99 min Scan# 4681
 Delta R.T. -0.00 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT1-2019

Tgt Ion:146 Resp: 135131
 Ion Ratio Lower Upper
 146 100
 111 50.2 23.5 70.5
 148 66.1 32.0 96.0

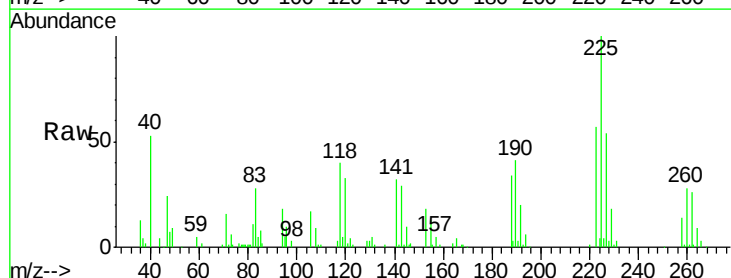


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

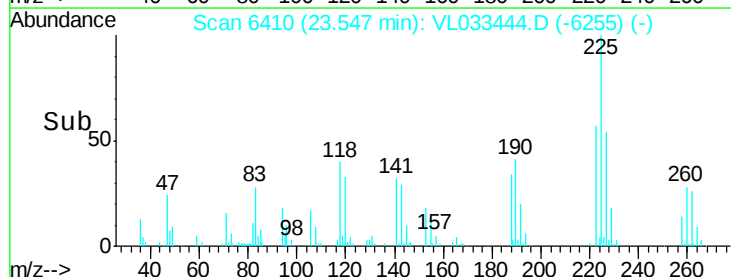
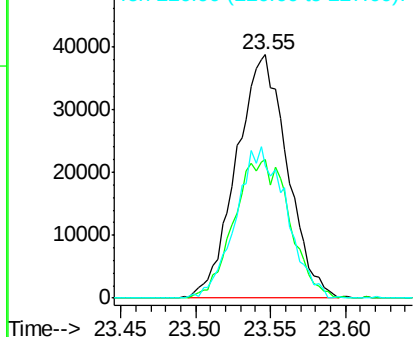


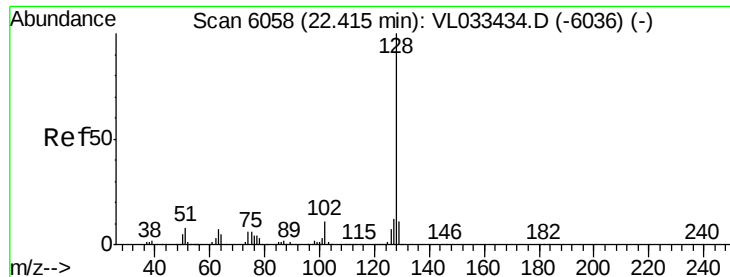
#78
 Hexachloro-1,3-Butadiene
 Concen: 0.979 ppbv
 RT: 23.55 min Scan# 6410
 Delta R.T. -0.00 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

Tgt Ion:225 Resp: 91697
 Ion Ratio Lower Upper
 225 100
 223 62.3 50.0 75.0
 227 61.7 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: 0.271 ppbv

RT: 22.41 min Scan# 6056

Delta R.T. -0.01 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT1-2019

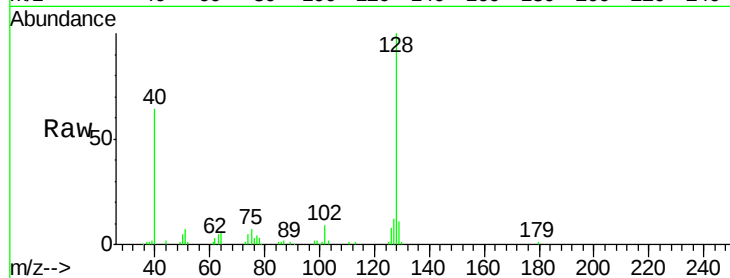
Tgt Ion:128 Resp: 55968

Ion Ratio Lower Upper

128 100

127 11.0 9.8 14.8

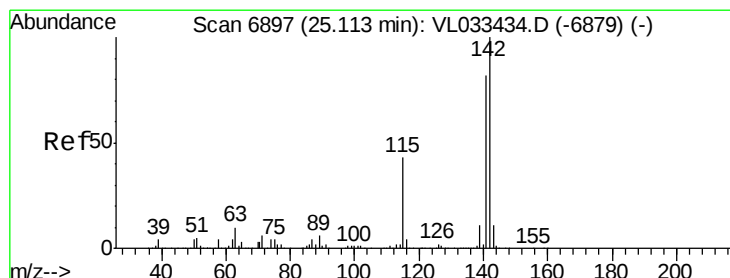
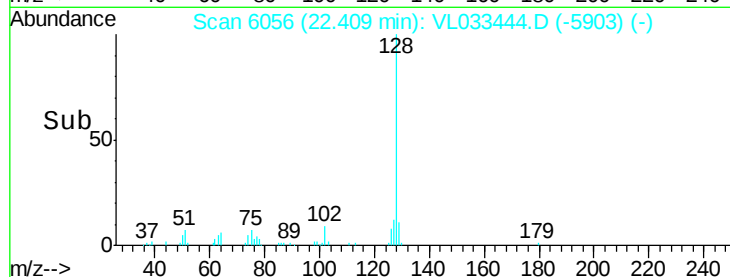
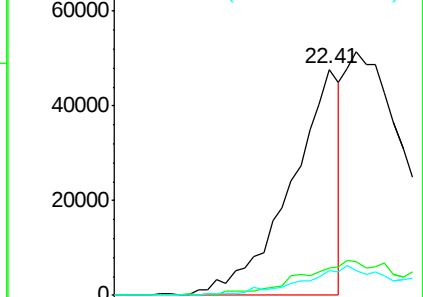
129 11.5 8.6 12.8



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: 0.247 ppbv

RT: 25.12 min Scan# 6900

Delta R.T. 0.01 min

Lab File: VL033444.D

Acq: 25 Mar 2019 20:12

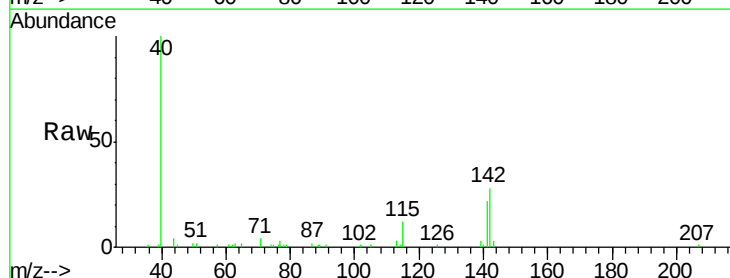
Tgt Ion:142 Resp: 17110

Ion Ratio Lower Upper

142 100

141 86.1 66.6 99.8

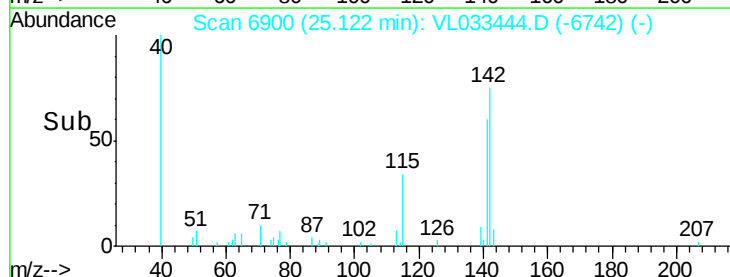
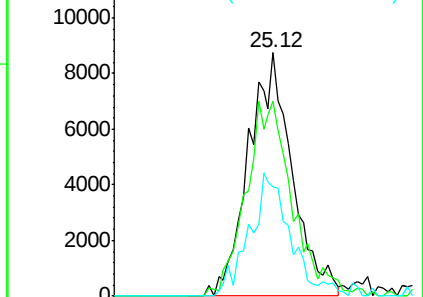
115 48.7 34.4 51.6



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: 0.400 ppbv
 RT: 22.14 min Scan# 5971
 Delta R.T. -0.01 min
 Lab File: VL033444.D
 Acq: 25 Mar 2019 20:12

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT1-2019

Tgt Ion:180 Resp: 45830
 Ion Ratio Lower Upper
 180 100
 182 0.0 77.0 115.4#
 184 0.0 24.6 36.8#

