

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060719\
 Data File : VL033875.D
 Acq On : 7 Jun 2019 2:44
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 07 06:04:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 05:42:58 2019
 QLast Update : Fri Jun 07 05:42:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	964524	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2260188	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2277777	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.56	95	1875414	10.18	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.07	85	293022	1.504 ppbv	99
3) Chlorodifluoromethane	3.01	51	229735	2.069 ppbv	98
4) Chloromethane	3.17	50	135067	2.127 ppbv	95
5) Vinyl Chloride	3.29	62	128084	1.979 ppbv	92
6) Bromomethane	3.51	94	80353	2.033 ppbv	98
7) Chloroethane	3.59	64	47617	2.061 ppbv	90
8) Dichlorotetrafluoroethane	3.21	85	344001	2.070 ppbv	99
9) Propene	3.03	41	87479	1.889 ppbv	96
10) Heptane	8.23	43	214117	1.634 ppbv	100
11) Trichlorofluoromethane	4.00	101	407110	2.085 ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.54	101	277337	2.040 ppbv	99
13) Ethanol	3.64	45	32741	2.196 ppbv	99
14) Bromoethene	3.78	108	103255	2.032 ppbv	98
15) Acetone	3.90	43	303809	2.274 ppbv	99
16) 1,3-Butadiene	3.35	39	111404	2.065 ppbv	99
17) tert-Butyl alcohol	4.35	59	208199	1.874 ppbv	99
18) 1,1-Dichloroethene	4.35	96	116391	2.027 ppbv	95
19) Isopropyl Alcohol	4.02	45	153111	1.763 ppbv #	96
20) Methylene Chloride	4.40	84	110928	2.137 ppbv	98
21) Allyl Chloride	4.47	41	162148	1.953 ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	122076	2.039 ppbv	93
23) Vinyl Acetate	5.14	43	343501	1.957 ppbv #	99
24) 1,1-Dichloroethane	5.08	63	261728	1.945 ppbv	99
25) Ethyl Acetate	5.76	43	441116	1.892 ppbv	99
26) Hexane	5.77	57	212498	2.125 ppbv	92
27) Carbon Disulfide	4.61	76	271569	1.955 ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	310855	1.876 ppbv	100
29) Chloroform	5.83	83	340029	1.834 ppbv	97
30) Cyclohexane	7.23	84	136082	1.629 ppbv #	78
31) cis-1,2-Dichloroethene	5.63	61	173857	1.735 ppbv	100
32) 1,1,1-Trichloroethane	6.61	97	335428	1.808 ppbv	98
34) 2-Butanone	5.32	43	265624	1.901 ppbv	98
35) Carbon Tetrachloride	7.12	117	355819	1.962 ppbv	99
36) Benzene	6.99	78	349890	1.733 ppbv	96
37) 1,2-Dichloroethane	6.40	62	257951	1.936 ppbv	100
38) Trichloroethene	7.95	130	148026	1.933 ppbv	93
39) 1,2-Dichloropropane	7.72	63	133720	1.767 ppbv	95
40) 1,4-Dioxane	7.95	88	49303	1.544 ppbv #	54
41) Tetrahydrofuran	6.14	42	131068	1.706 ppbv	98
42) Bromodichloromethane	7.90	83	340326	1.875 ppbv	99
43) Methyl Methacrylate	8.13	69	127509	1.701 ppbv	95

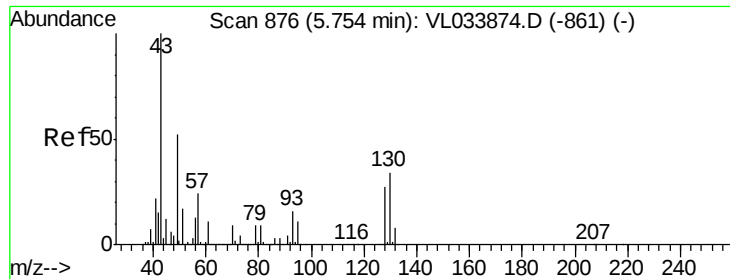
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060719\
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Quant Time: Jun 07 06:04:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 05:42:58 2019
 QLast Update : Fri Jun 07 05:42:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	629325	1.830	ppbv	97
45) t-1,3-Dichloropropene	9.40	75	156152	1.645	ppbv	99
46) cis-1,3-Dichloropropene	8.82	75	185510	1.676	ppbv	100
47) 1,1,2-Trichloroethane	9.60	97	155852	1.798	ppbv	99
48) Dibromochloromethane	10.44	129	281270	1.864	ppbv	99
49) Bromoform	13.19	173	244010	1.886	ppbv	99
50) 4-Methyl-2-Pentanone	8.86	43	391489	1.839	ppbv	98
51) 2-Hexanone	10.26	43	311459	1.874	ppbv #	96
52) Tetrachloroethene	11.36	164	131481	1.828	ppbv	96
53) Toluene	9.93	91	386223	1.759	ppbv	99
54) 1,2-Dibromoethane	10.75	107	236332	1.789	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.27	131	201676	1.929	ppbv #	1
57) Chlorobenzene	12.29	112	348884	1.880	ppbv	95
58) Ethyl Benzene	12.85	91	548071	1.849	ppbv	99
59) m/p-Xylene	13.13	91	518543	1.991	ppbv #	39
60) o-Xylene	13.83	91	516522	1.949	ppbv	98
61) Styrene	13.67	104	329301	1.864	ppbv	98
62) Isopropylbenzene	14.81	105	677869	1.902	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.82	83	384885	1.987	ppbv	100
64) n-propylbenzene	15.70	120	179648	1.953	ppbv	96
65) tert-Butylbenzene	16.89	119	653088	2.006	ppbv	96
66) Benzyl Chloride	17.14	91	281851	1.814	ppbv	100
67) sec-Butylbenzene	17.44	105	912040	1.999	ppbv	99
69) p-Isopropyltoluene	17.80	119	762816	2.021	ppbv	99
70) n-Butylbenzene	18.70	91	842116	2.076	ppbv	98
71) 2-Chlorotoluene	15.60	91	523198	1.981	ppbv	97
72) 4-Ethyltoluene	15.98	105	593749	1.962	ppbv	98
73) 1,3,5-Trimethylbenzene	16.14	105	579449	1.958	ppbv	95
74) 1,2,4-Trimethylbenzene	16.91	105	668310	2.070	ppbv #	92
75) 1,3-Dichlorobenzene	17.15	146	402348	2.030	ppbv	99
76) 1,4-Dichlorobenzene	17.29	146	375827	1.999	ppbv	99
77) 1,2-Dichlorobenzene	17.97	146	369579	1.983	ppbv	99
78) Hexachloro-1,3-Butadiene	23.53	225	312021	2.234	ppbv	98
79) Naphthalene	22.39	128	564041	1.947	ppbv	96
80) Naphthalene, 2-methyl-	25.10	142	204522	1.961	ppbv #	94
81) 1,2,4-Trichlorobenzene	22.12	180	342953	1.982	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 874

Delta R.T. -0.01 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

Instrument :

MSVOA_L

ClientSampleId :

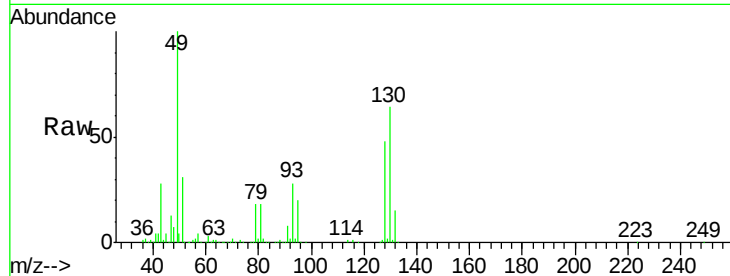
Tot Ion: 49 Resp: 964524

Ion Ratio Lower Upper

49 100

128 50.3 25.5 76.5

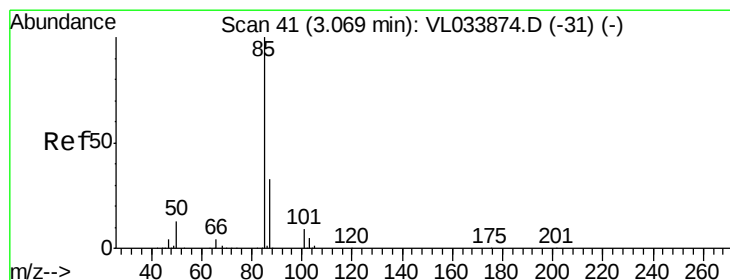
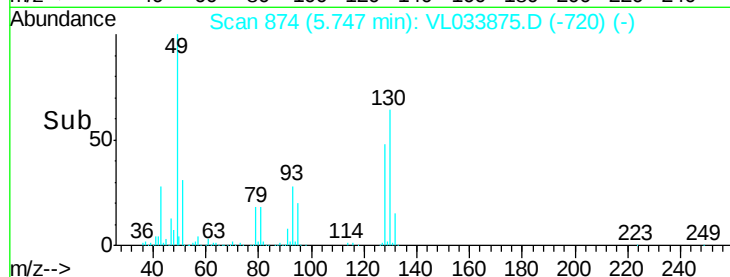
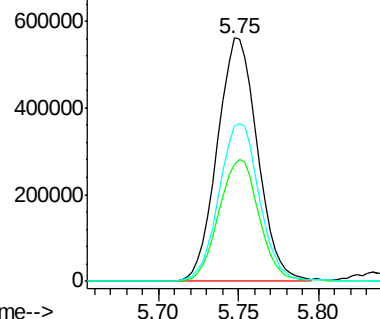
130 65.4 32.5 97.4



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: 1.504 ppbv

RT: 3.07 min Scan# 41

Delta R.T. -0.00 min

Lab File: VL033875.D

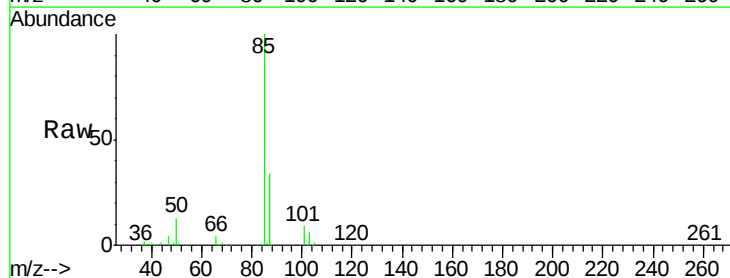
Acq: 7 Jun 2019 2:44

Tgt Ion: 85 Resp: 293022

Ion Ratio Lower Upper

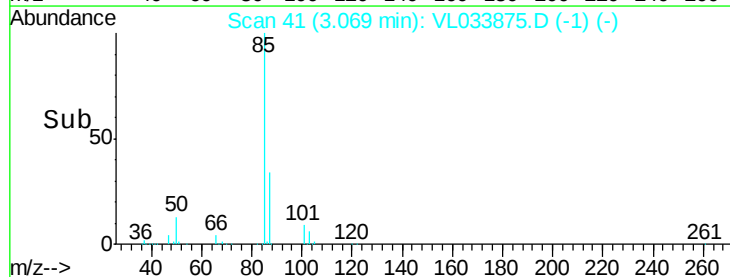
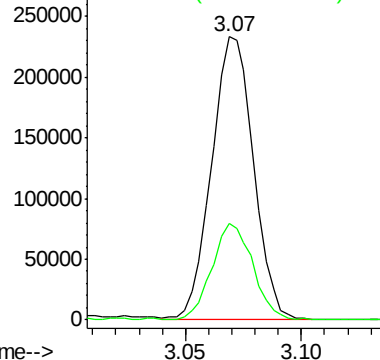
85 100

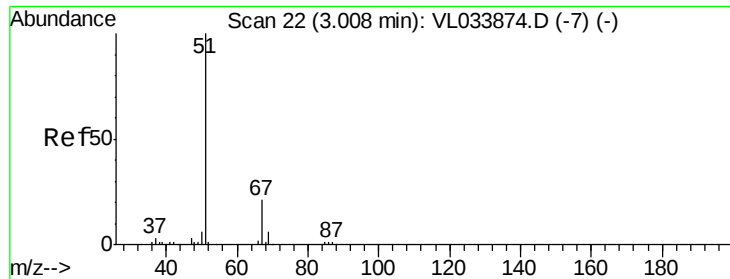
87 33.9 26.6 40.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

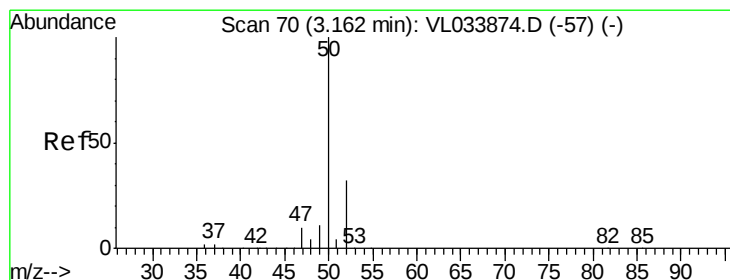
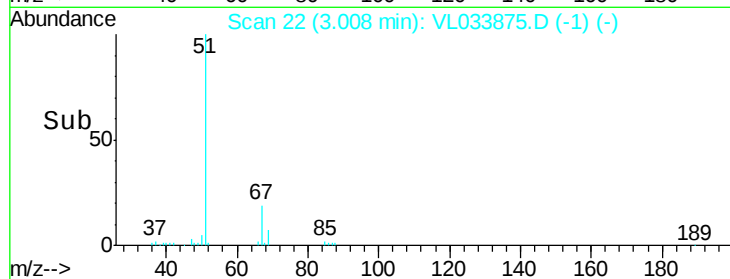
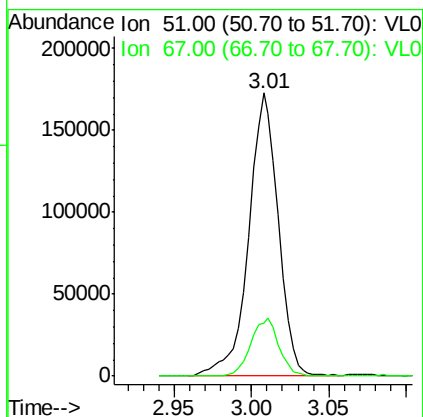
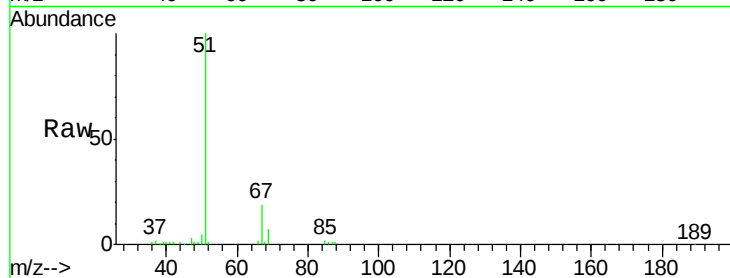




#3
Chlorodifluoromethane
Concen: 2.069 ppbv
RT: 3.01 min Scan# 22
Delta R.T. 0.00 min
Lab File: VL033875.D
Acq: 7 Jun 2019 2:44

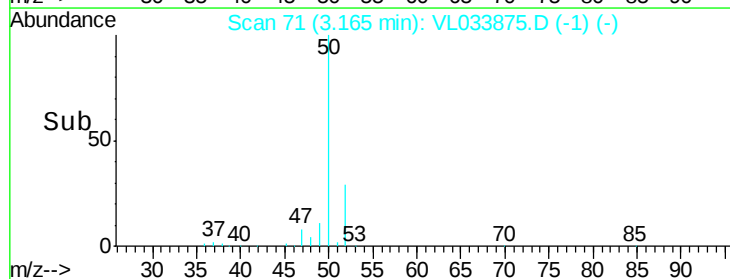
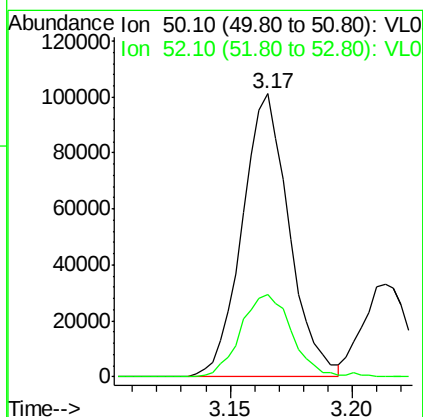
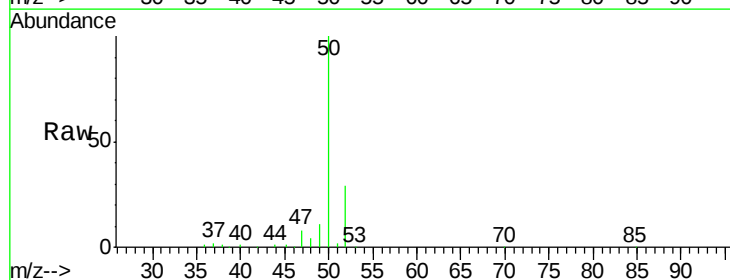
Instrument :
MSVOA_L
ClientSampleId :

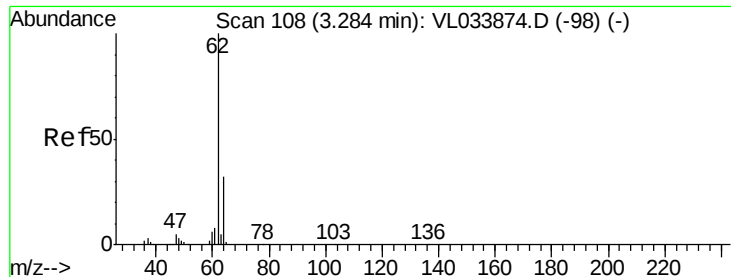
Tot Ion: 51 Resp: 229735
Ion Ratio Lower Upper
51 100
67 19.6 16.4 24.6



#4
Chloromethane
Concen: 2.127 ppbv
RT: 3.17 min Scan# 71
Delta R.T. 0.00 min
Lab File: VL033875.D
Acq: 7 Jun 2019 2:44

Tgt Ion: 50 Resp: 135067
Ion Ratio Lower Upper
50 100
52 29.1 25.4 38.0





#5

Vinyl Chloride

Concen: 1.979 ppbv

RT: 3.29 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

Instrument :

MSVOA_L

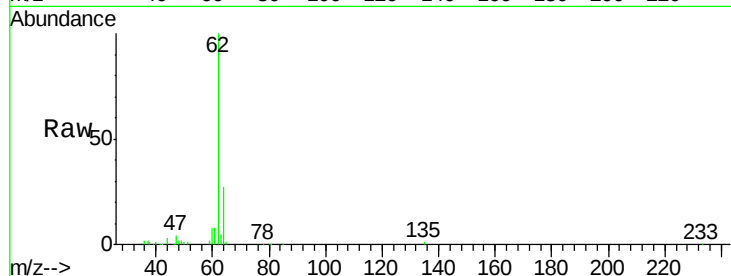
ClientSampleId :

Tot Ion: 62 Resp: 128084

Ion Ratio Lower Upper

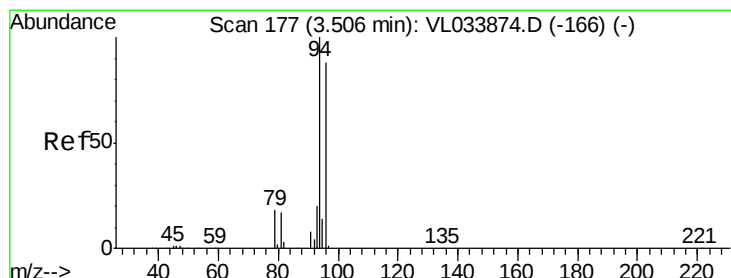
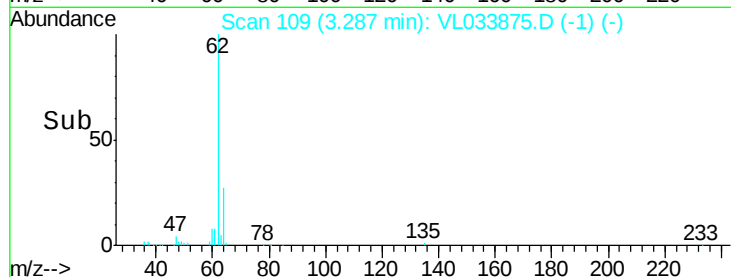
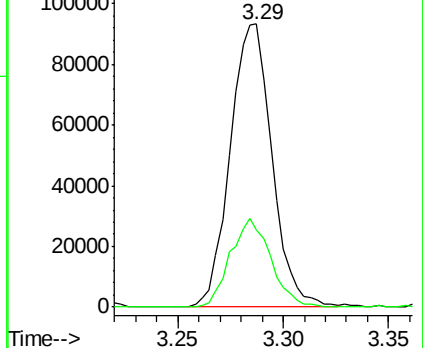
62 100

64 27.1 25.2 37.8



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 2.033 ppbv

RT: 3.51 min Scan# 178

Delta R.T. 0.00 min

Lab File: VL033875.D

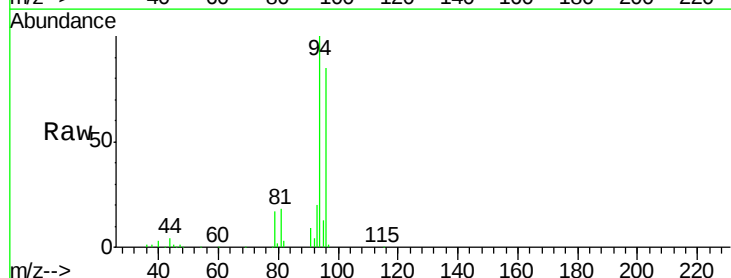
Acq: 7 Jun 2019 2:44

Tgt Ion: 94 Resp: 80353

Ion Ratio Lower Upper

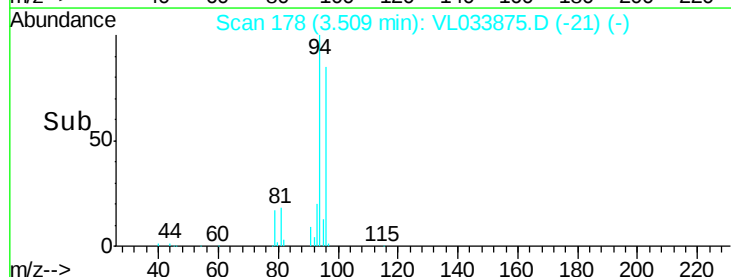
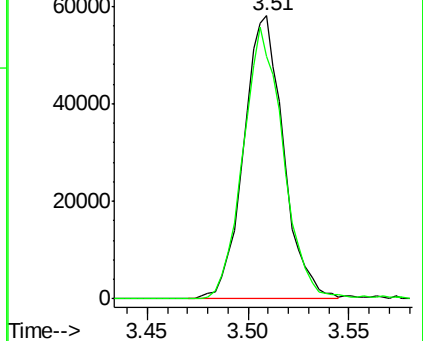
94 100

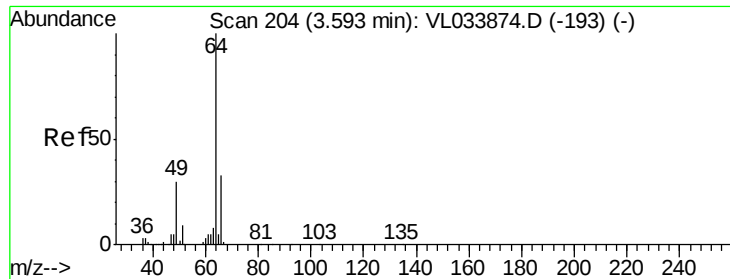
96 85.4 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 2.061 ppbv

RT: 3.59 min Scan# 204

Delta R.T. -0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

Instrument :

MSVOA_L

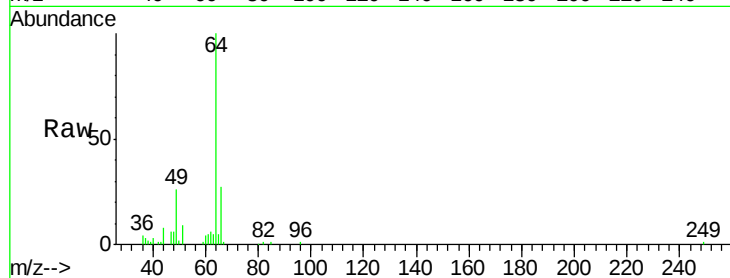
ClientSampleId :

Tot Ion: 64 Resp: 47617

Ion Ratio Lower Upper

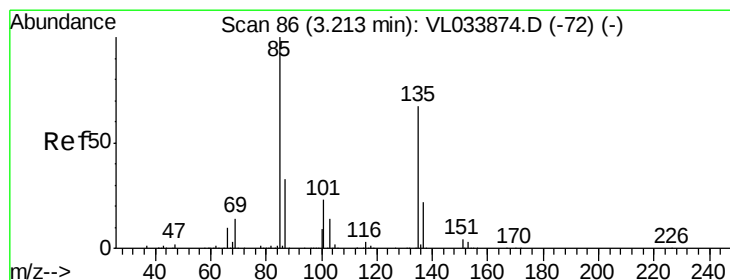
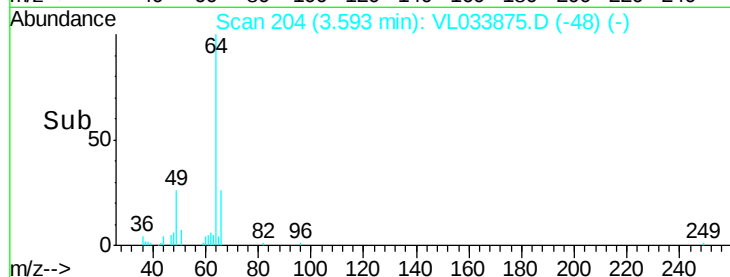
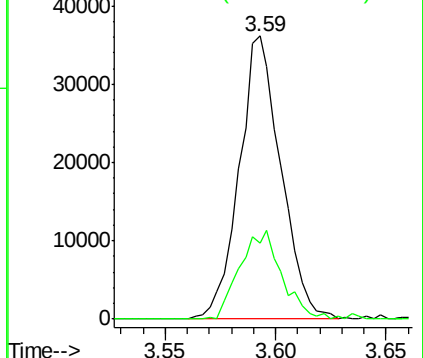
64 100

66 27.6 26.7 40.1



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 2.070 ppbv

RT: 3.21 min Scan# 86

Delta R.T. 0.00 min

Lab File: VL033875.D

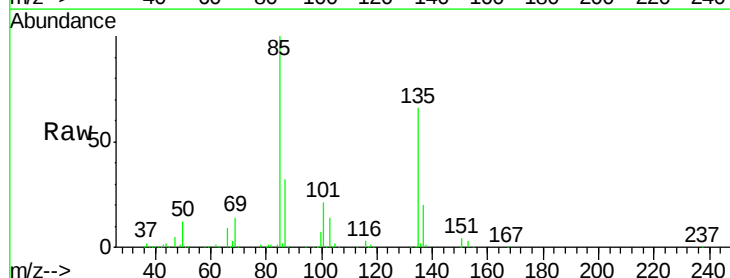
Acq: 7 Jun 2019 2:44

Tgt Ion: 85 Resp: 344001

Ion Ratio Lower Upper

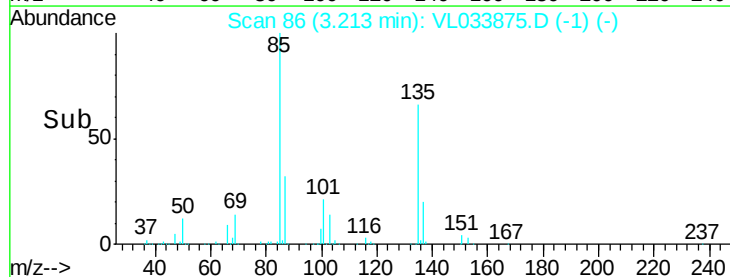
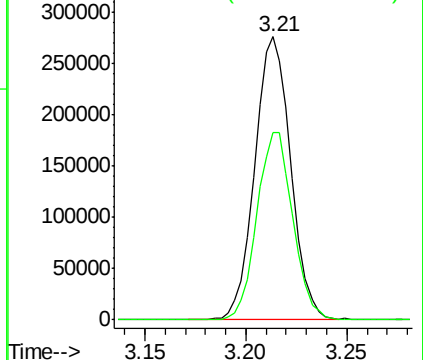
85 100

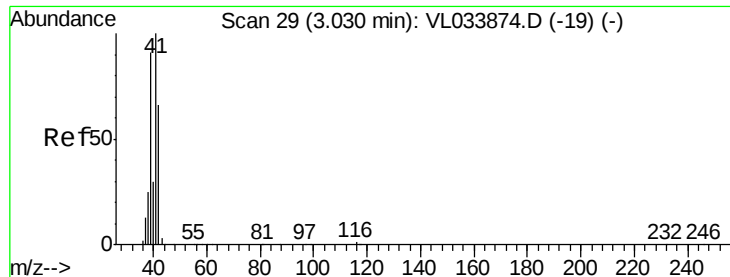
135 66.3 53.7 80.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 1.889 ppbv

RT: 3.03 min Scan# 30

Delta R.T. 0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

Instrument :

MSVOA_L

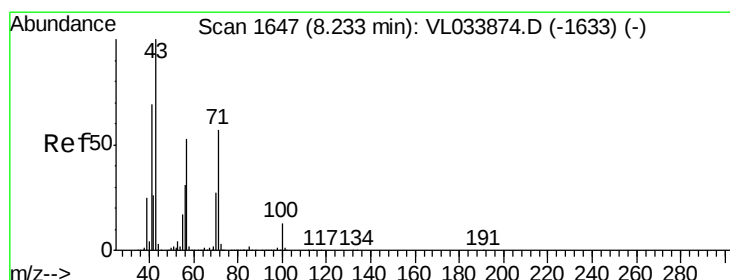
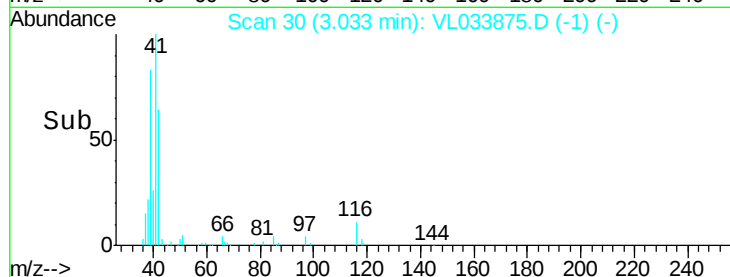
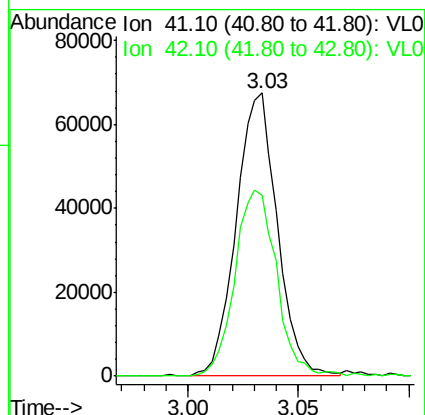
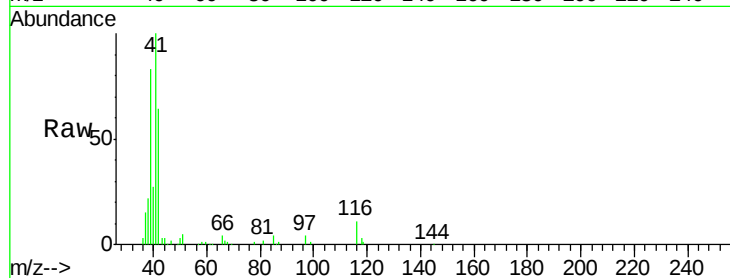
ClientSampleId :

Tot Ion: 41 Resp: 87479

Ion Ratio Lower Upper

41 100

42 67.1 56.3 84.5



#10

Heptane

Concen: 1.634 ppbv

RT: 8.23 min Scan# 1647

Delta R.T. -0.00 min

Lab File: VL033875.D

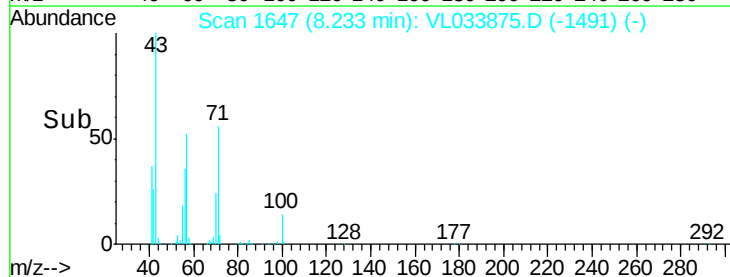
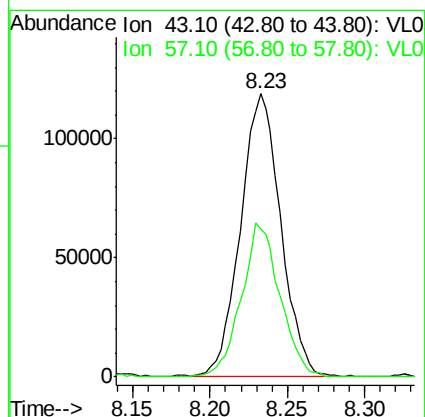
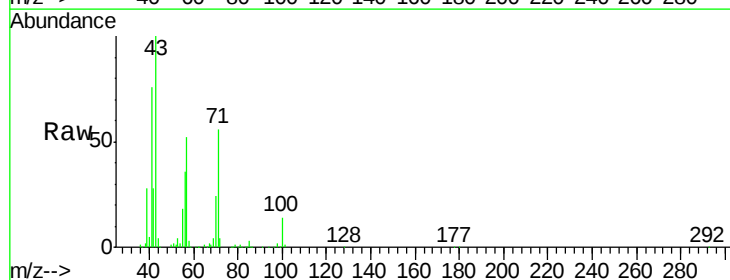
Acq: 7 Jun 2019 2:44

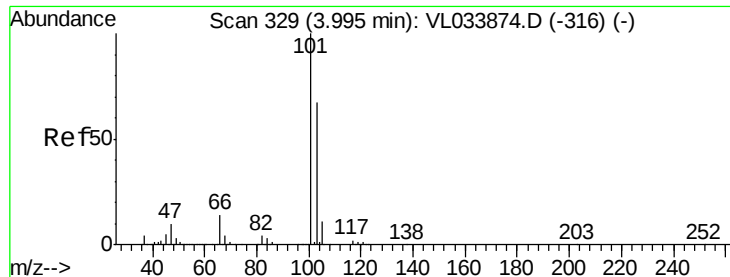
Tgt Ion: 43 Resp: 214117

Ion Ratio Lower Upper

43 100

57 52.4 41.7 62.5





#11

Trichlorofluoromethane

Concen: 2.085 ppbv

RT: 4.00 min Scan# 330

Delta R.T. 0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

Instrument :

MSVOA_L

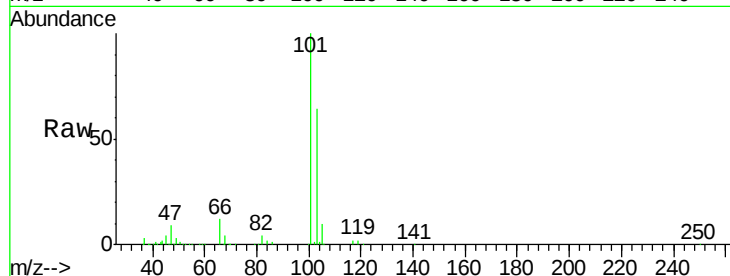
ClientSampleId :

Tot Ion:101 Resp: 407110

Ion Ratio Lower Upper

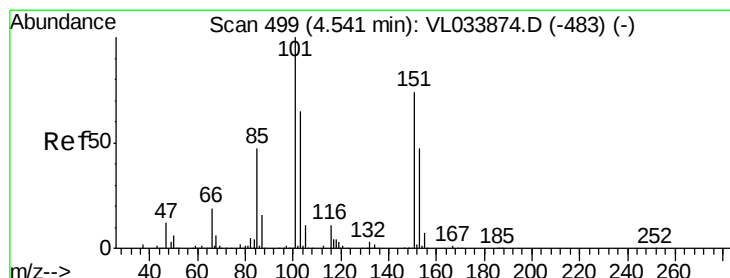
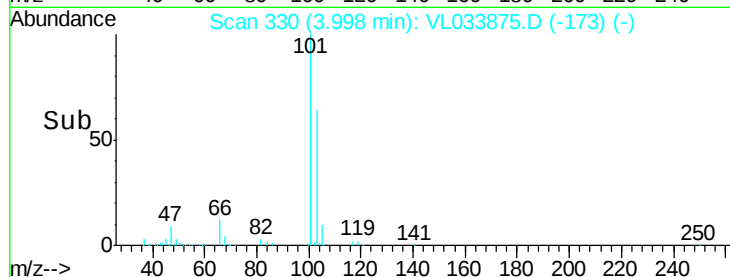
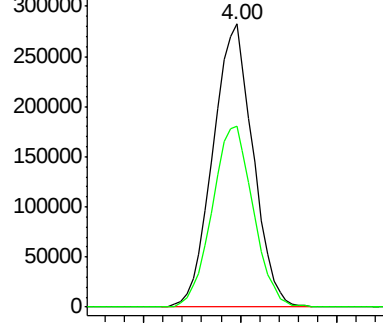
101 100

103 64.0 53.6 80.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 2.040 ppbv

RT: 4.54 min Scan# 500

Delta R.T. 0.00 min

Lab File: VL033875.D

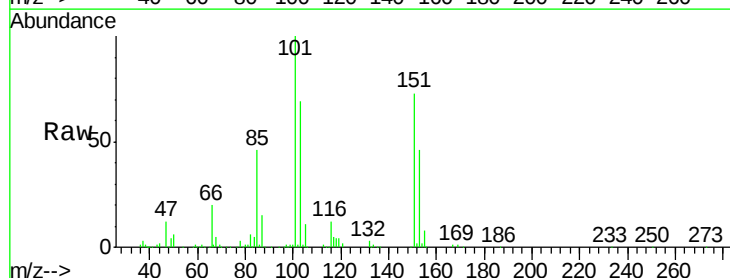
Acq: 7 Jun 2019 2:44

Tgt Ion:101 Resp: 277337

Ion Ratio Lower Upper

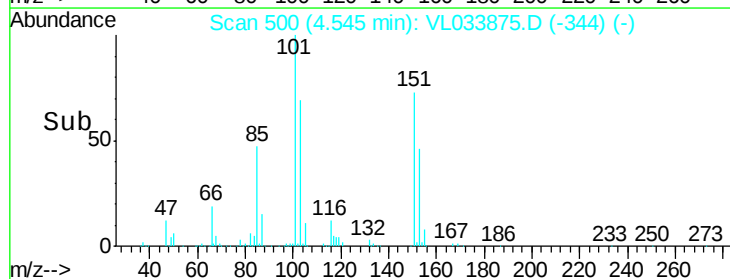
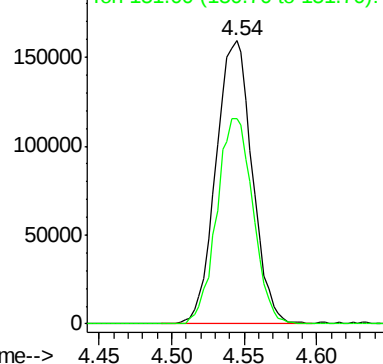
101 100

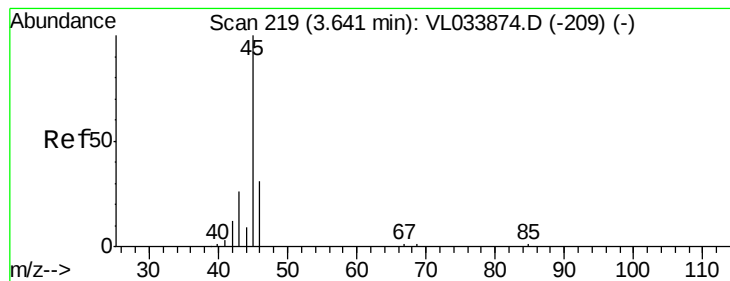
151 72.4 58.6 87.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 2.196 ppbv

RT: 3.64 min Scan# 220

Delta R.T. 0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

Instrument :

MSVOA_L

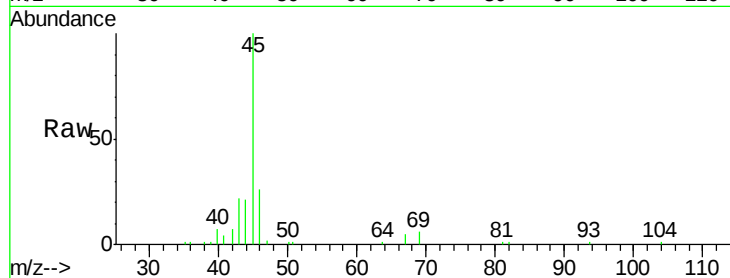
ClientSampleId :

Tot Ion: 45 Resp: 32741

Ion Ratio Lower Upper

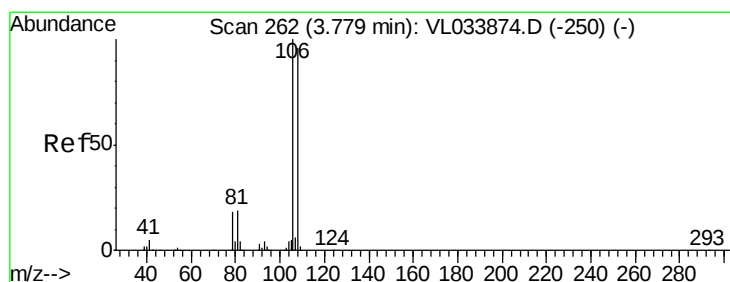
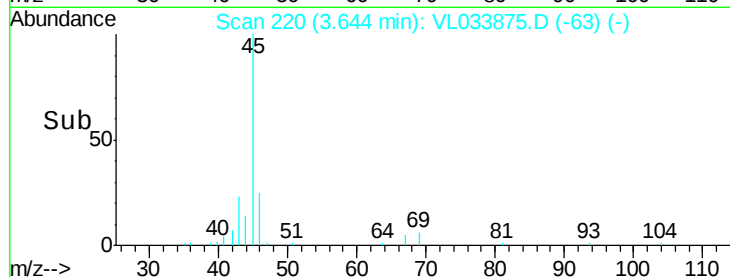
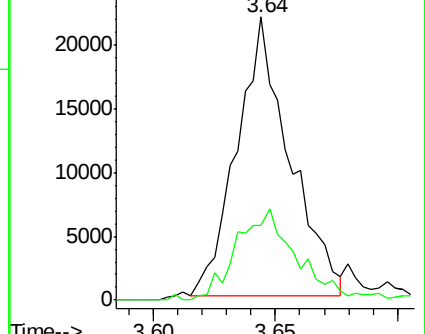
45 100

46 39.1 15.3 61.1



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 2.032 ppbv

RT: 3.78 min Scan# 262

Delta R.T. -0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

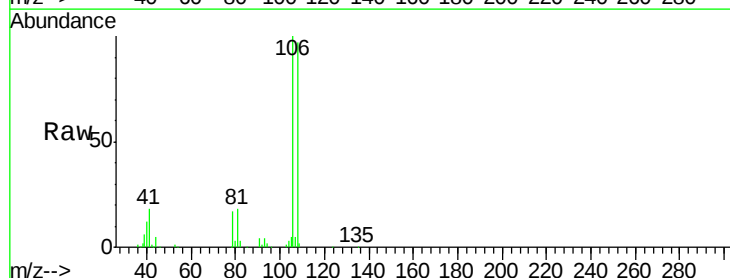
Tgt Ion: 108 Resp: 103255

Ion Ratio Lower Upper

108 100

106 108.2 84.9 127.3

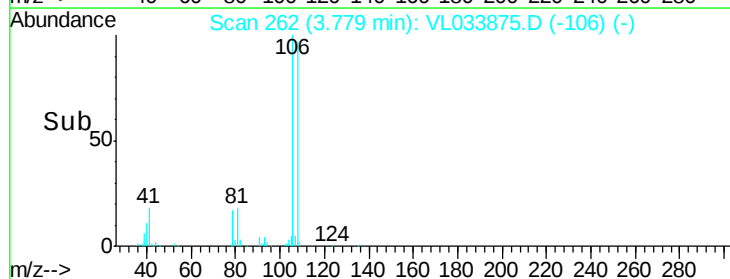
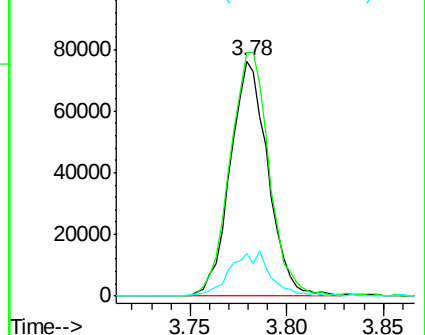
79 19.9 15.4 23.0

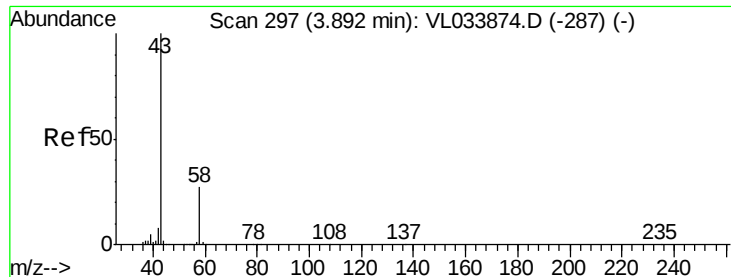


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 2.274 ppbv

RT: 3.90 min Scan# 298

Delta R.T. 0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

Instrument :

MSVOA_L

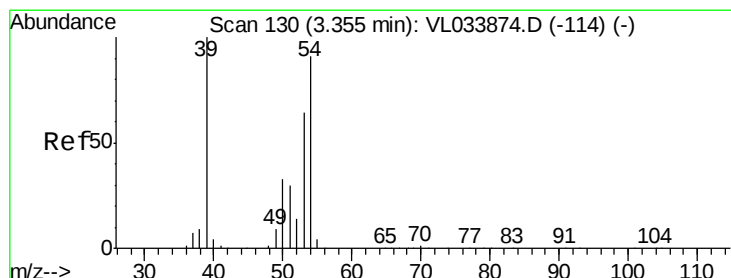
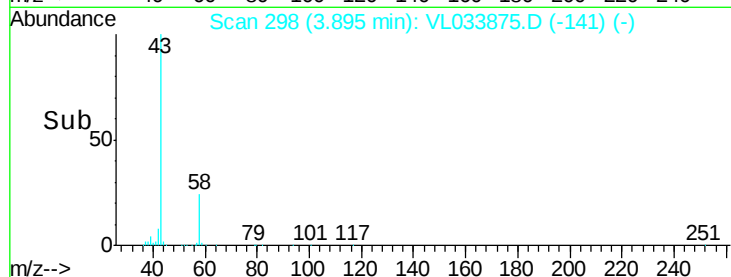
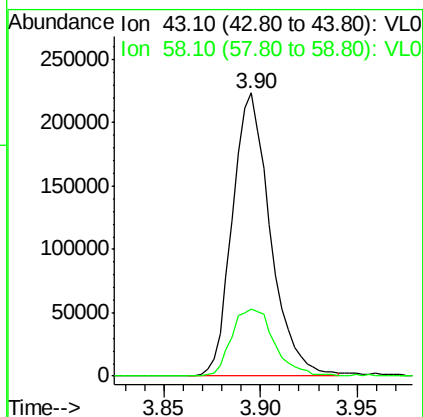
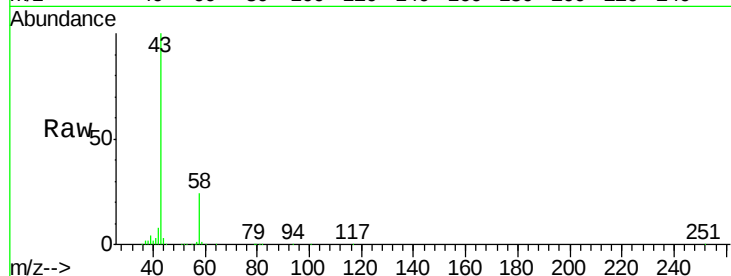
ClientSampleId :

Tot Ion: 43 Resp: 303809

Ion Ratio Lower Upper

43 100

58 27.2 21.3 31.9



#16

1,3-Butadiene

Concen: 2.065 ppbv

RT: 3.35 min Scan# 130

Delta R.T. -0.00 min

Lab File: VL033875.D

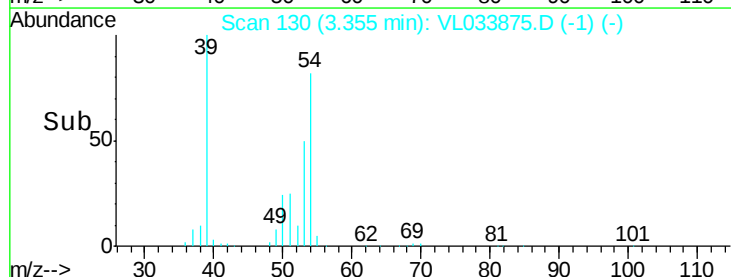
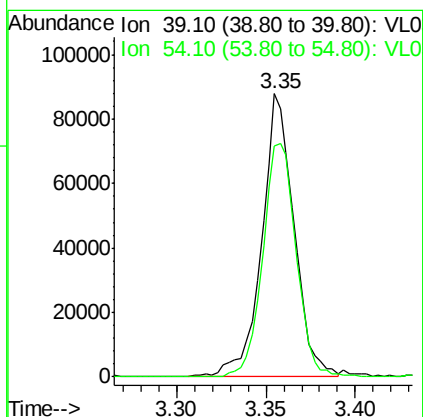
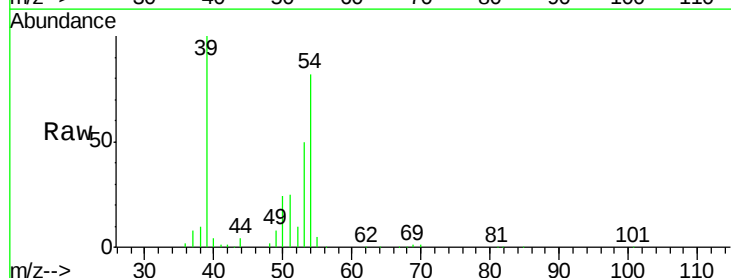
Acq: 7 Jun 2019 2:44

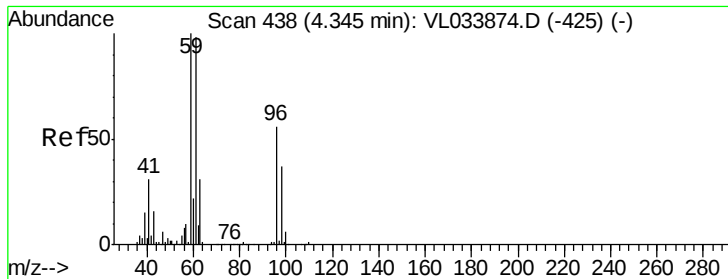
Tgt Ion: 39 Resp: 111404

Ion Ratio Lower Upper

39 100

54 85.1 68.6 103.0



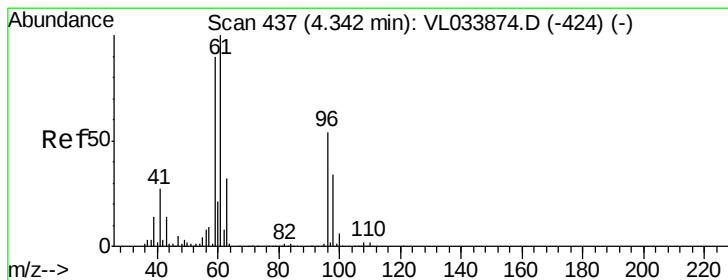
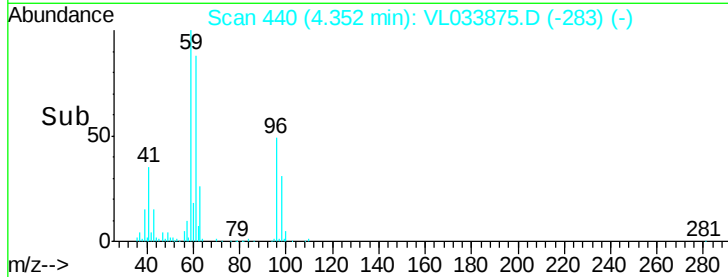
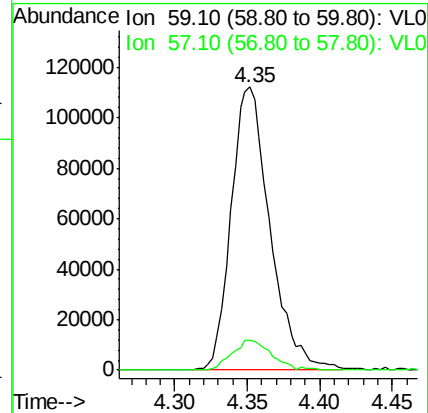
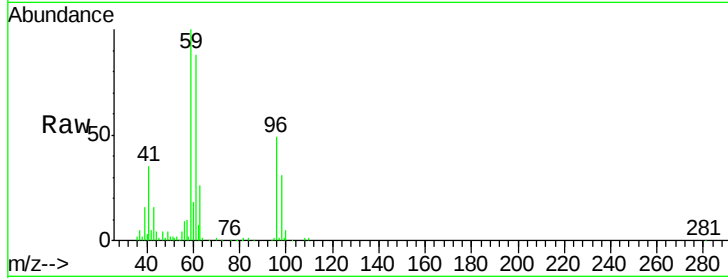


#17

tert-Butyl alcohol
Concen: 1.874 ppbv
RT: 4.35 min Scan# 440
Delta R.T. 0.01 min
Lab File: VL033875.D
Acq: 7 Jun 2019 2:44

Instrument :
MSVOA_L
ClientSampled :

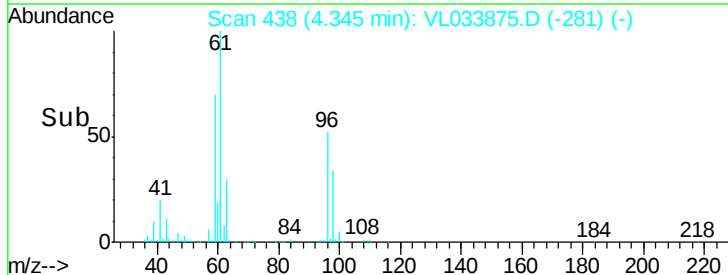
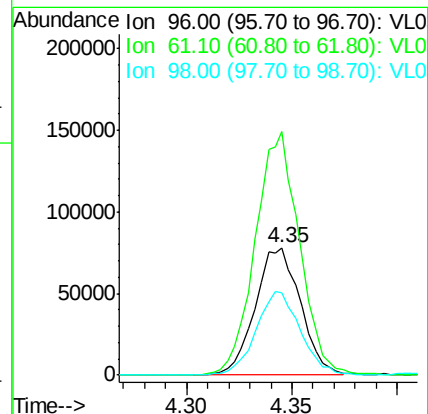
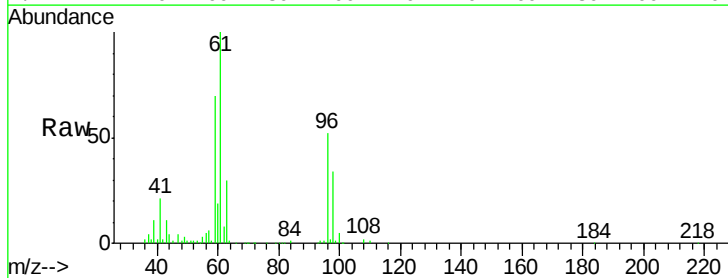
Tot Ion: 59 Resp: 208199
Ion Ratio Lower Upper
59 100
57 10.9 8.4 12.6

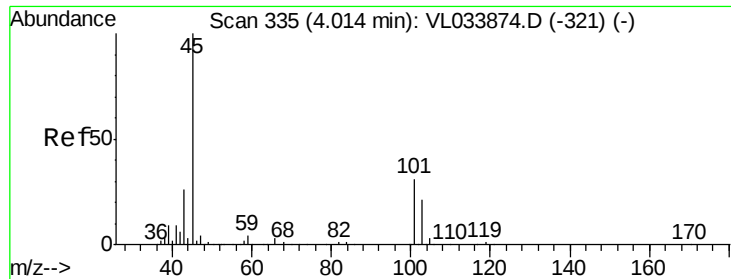


#18

1,1-Dichloroethene
Concen: 2.027 ppbv
RT: 4.35 min Scan# 438
Delta R.T. 0.00 min
Lab File: VL033875.D
Acq: 7 Jun 2019 2:44

Tgt Ion: 96 Resp: 116391
Ion Ratio Lower Upper
96 100
61 190.8 147.0 220.6
98 64.5 49.4 74.0





#19

Isopropyl Alcohol

Concen: 1.763 ppbv

RT: 4.02 min Scan# 336

Delta R.T. 0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

Instrument :

MSVOA_L

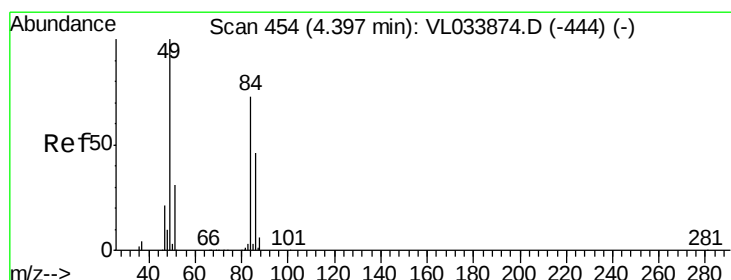
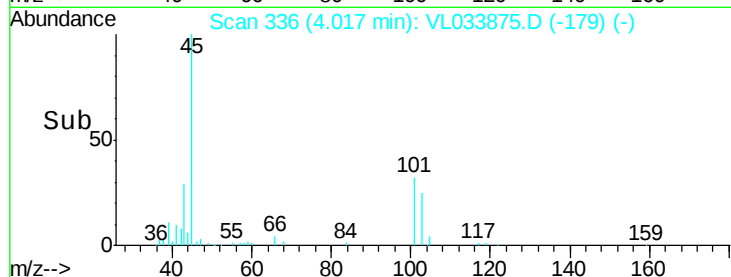
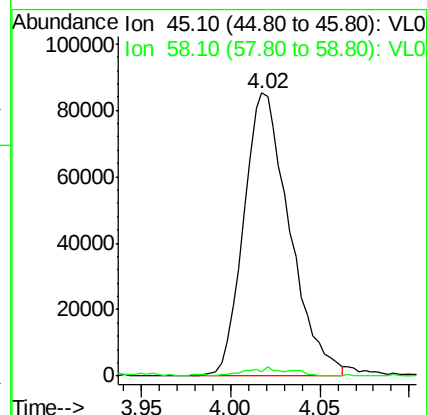
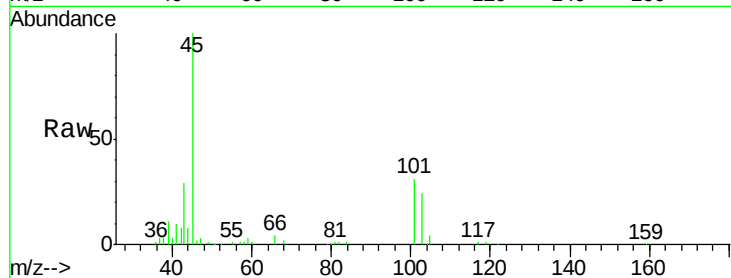
ClientSampleId :

Tot Ion: 45 Resp: 153111

Ion Ratio Lower Upper

45 100

58 3.7 1.8 2.6#



#20

Methylene Chloride

Concen: 2.137 ppbv

RT: 4.40 min Scan# 455

Delta R.T. 0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

Tgt Ion: 84 Resp: 110928

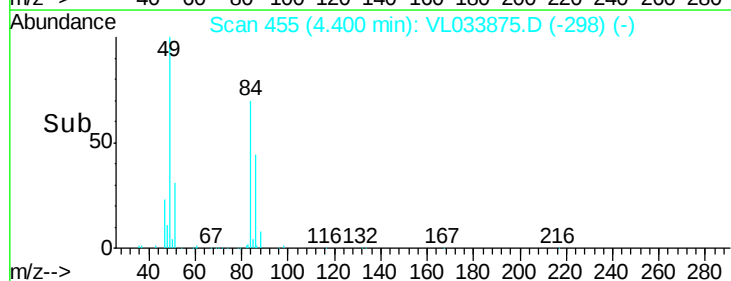
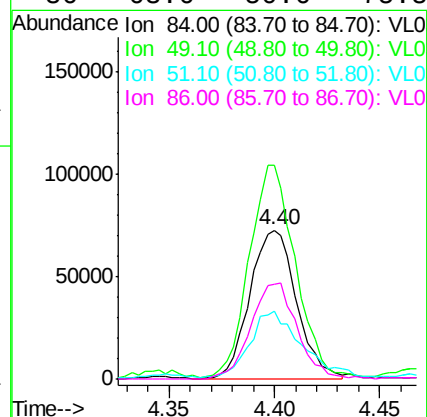
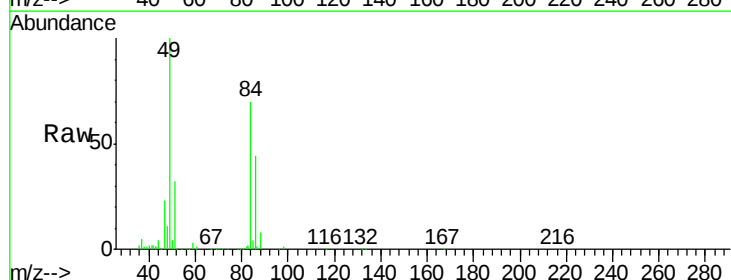
Ion Ratio Lower Upper

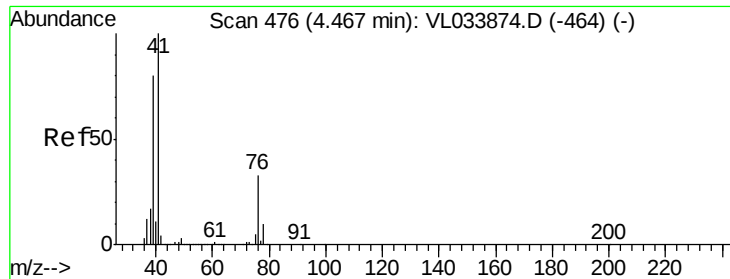
84 100

49 141.5 110.0 165.0

51 43.9 34.6 51.8

86 63.6 50.6 75.8

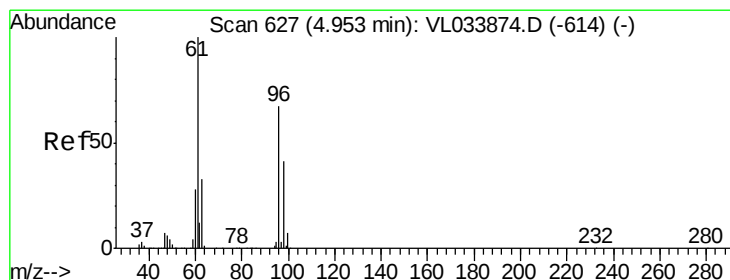
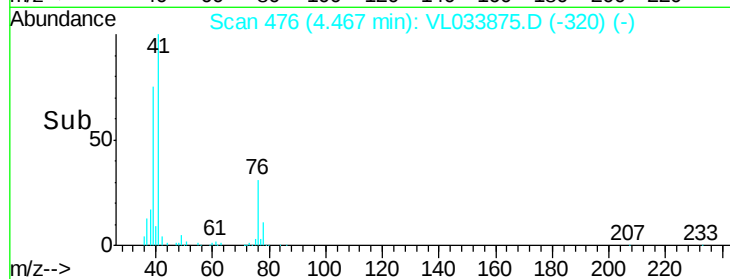
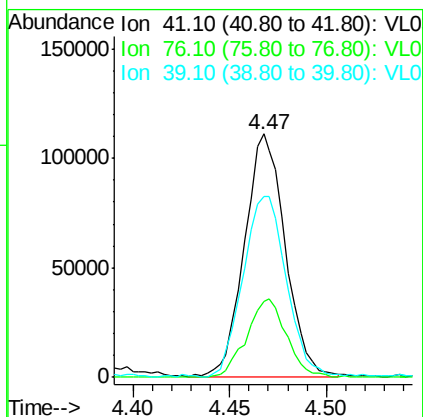
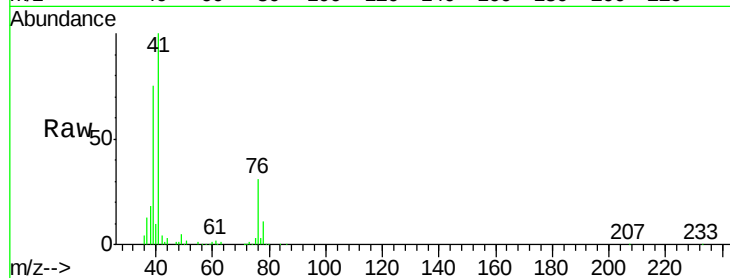




#21
Allvl Chloride
Concen: 1.953 ppbv
RT: 4.47 min Scan# 476
Delta R.T. 0.00 min
Lab File: VL033875.D
Acq: 7 Jun 2019 2:44

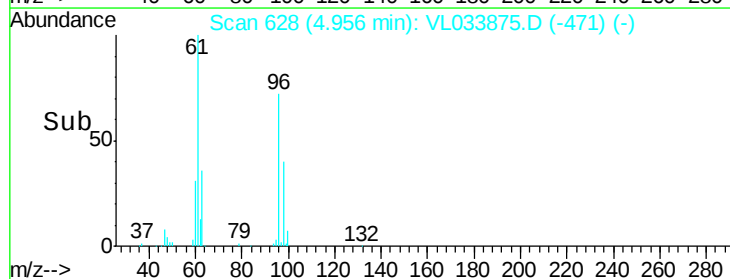
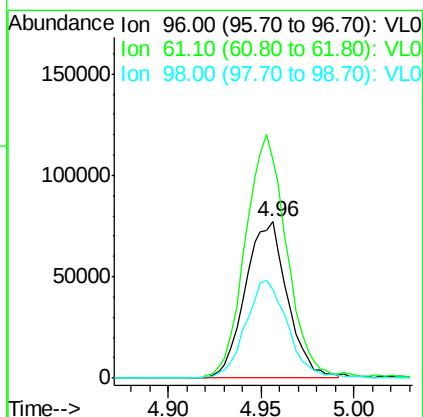
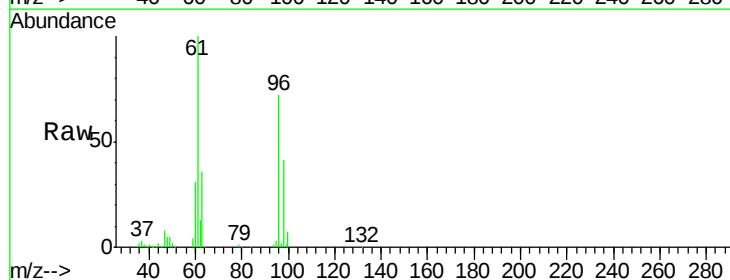
Instrument :
MSVOA_L
ClientSampled :

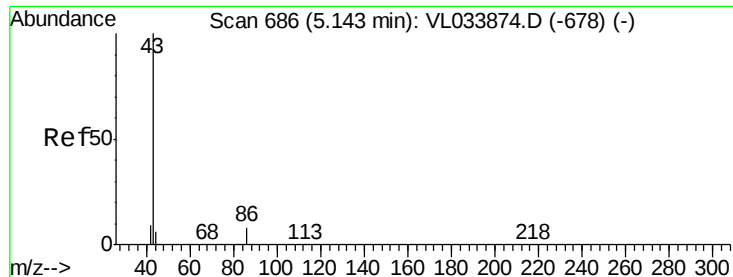
Tot Ion: 41 Resp: 162148
Ion Ratio Lower Upper
41 100
76 31.9 26.6 39.8
39 80.6 65.2 97.8



#22
trans-1,2-Dichloroethene
Concen: 2.039 ppbv
RT: 4.96 min Scan# 628
Delta R.T. 0.00 min
Lab File: VL033875.D
Acq: 7 Jun 2019 2:44

Tgt Ion: 96 Resp: 122076
Ion Ratio Lower Upper
96 100
61 139.5 119.0 178.6
98 56.6 48.3 72.5





#23

Vinyl Acetate

Concen: 1.957 ppbv

RT: 5.14 min Scan# 686

Delta R.T. 0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 343501

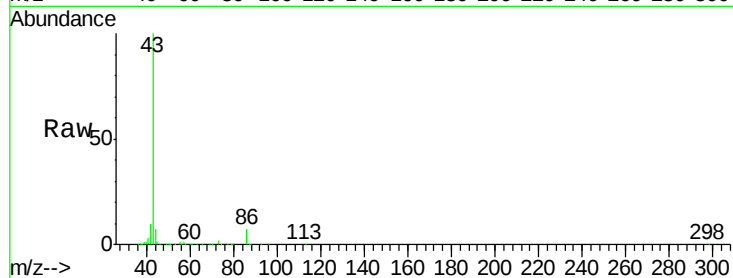
Ion Ratio Lower Upper

43 100

86 7.5 5.8 8.8

42 10.1 7.8 11.8

44 6.4 4.2 6.4#

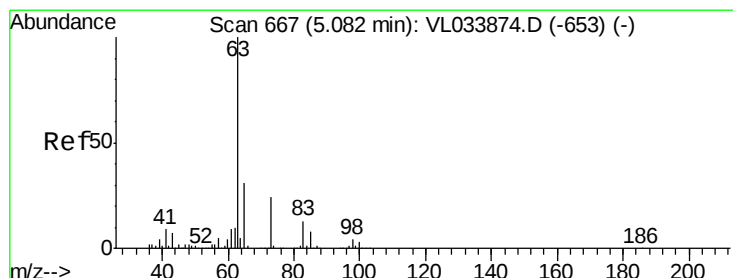
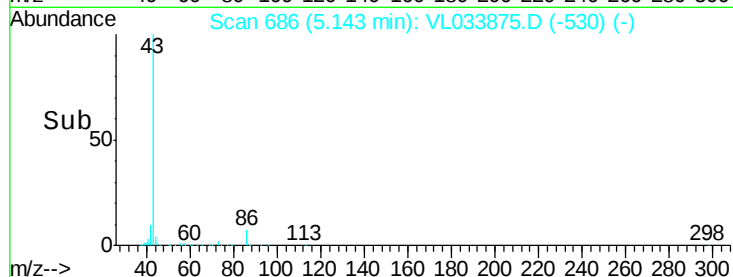
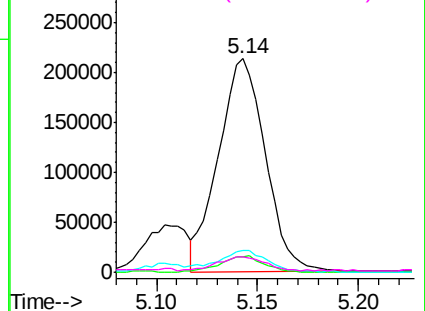


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.945 ppbv

RT: 5.08 min Scan# 667

Delta R.T. -0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

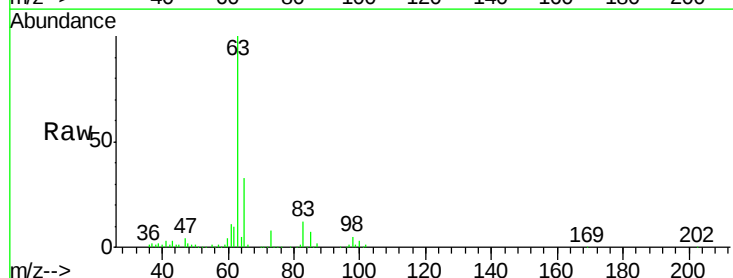
Tgt Ion: 63 Resp: 261728

Ion Ratio Lower Upper

63 100

98 5.0 2.2 6.6

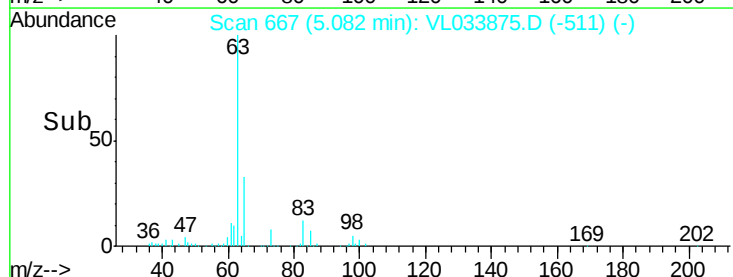
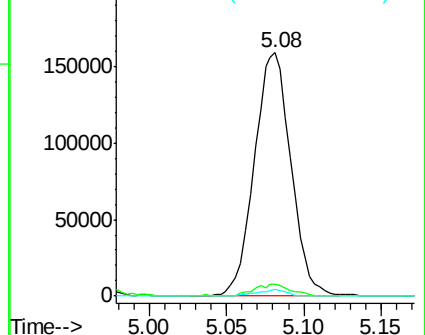
100 2.6 1.3 3.8

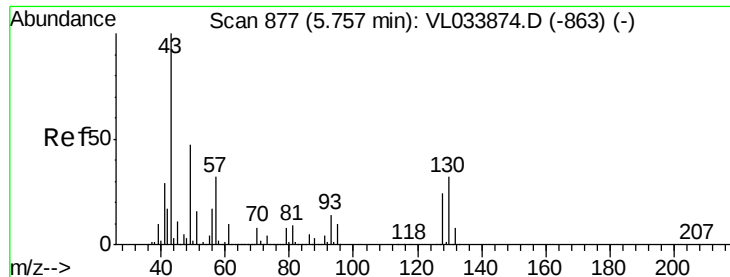


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

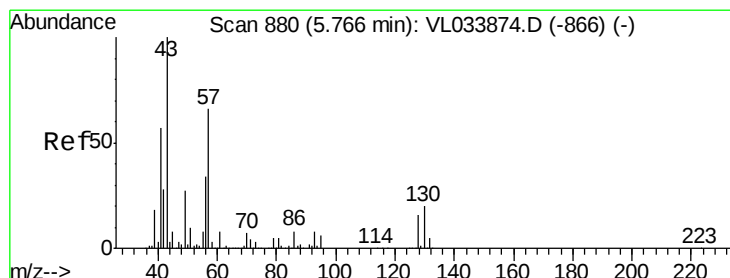
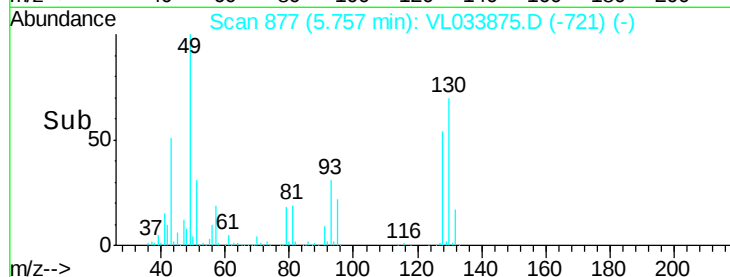
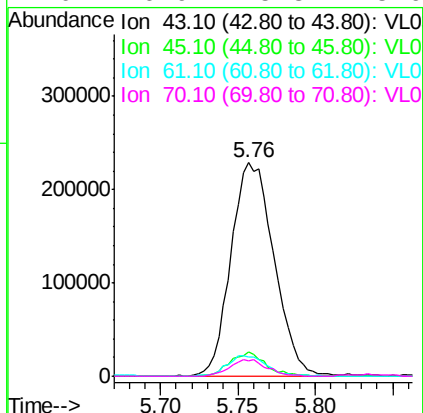
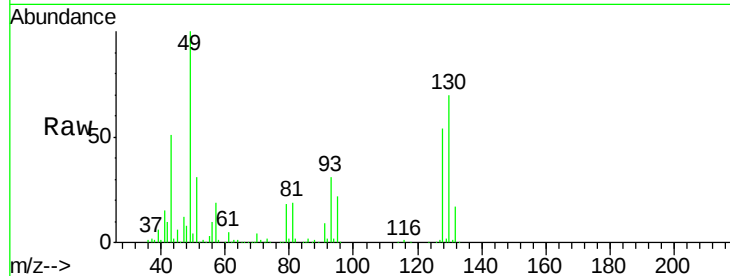




#25
Ethyl Acetate
Concen: 1.892 ppbv
RT: 5.76 min Scan# 877
Delta R.T. -0.00 min
Lab File: VL033875.D
Acq: 7 Jun 2019 2:44

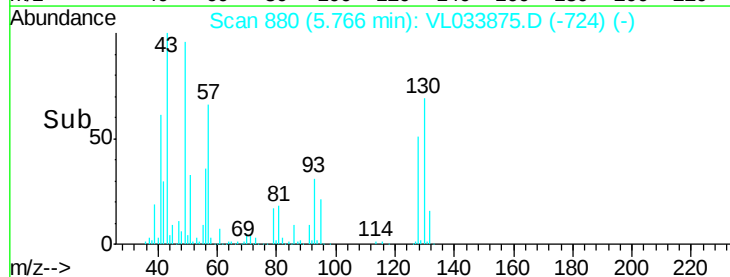
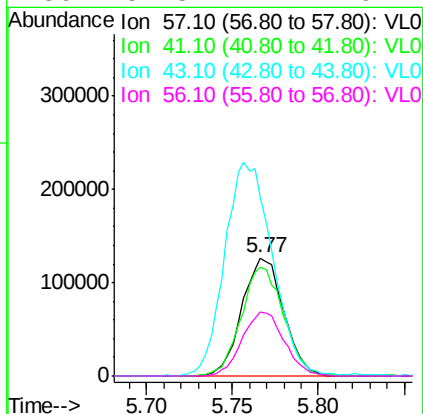
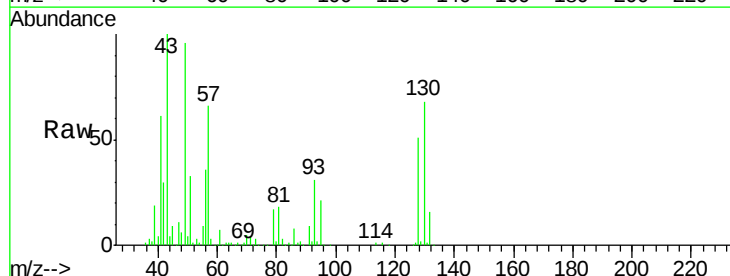
Instrument :
MSVOA_L
ClientSampleId :

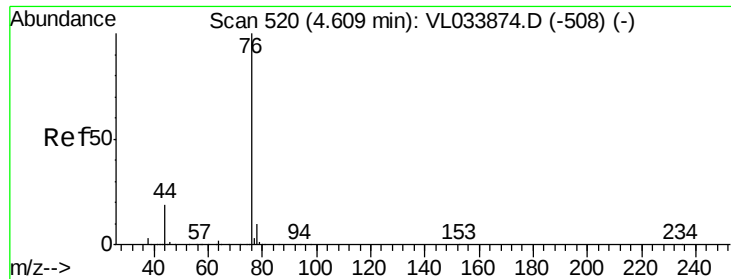
Tot Ion:	43	Resp:	441116
Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.9	11.9
61	9.0	7.8	11.6
70	6.9	5.8	8.6



#26
Hexane
Concen: 2.125 ppbv
RT: 5.77 min Scan# 880
Delta R.T. 0.00 min
Lab File: VL033875.D
Acq: 7 Jun 2019 2:44

Tgt Ion:	57	Resp:	212498
Ion	Ratio	Lower	Upper
57	100		
41	94.0	71.4	107.2
43	211.1	183.7	275.5
56	54.8	42.7	64.1





#27

Carbon Disulfide

Concen: 1.955 ppbv

RT: 4.61 min Scan# 521

Delta R.T. 0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

Instrument :

MSVOA_L

ClientSampleId :

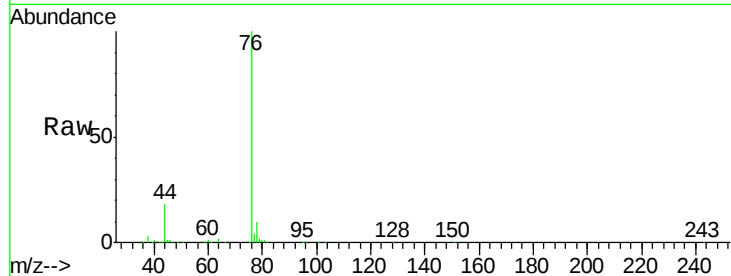
Tot Ion: 76 Resp: 271569

Ion Ratio Lower Upper

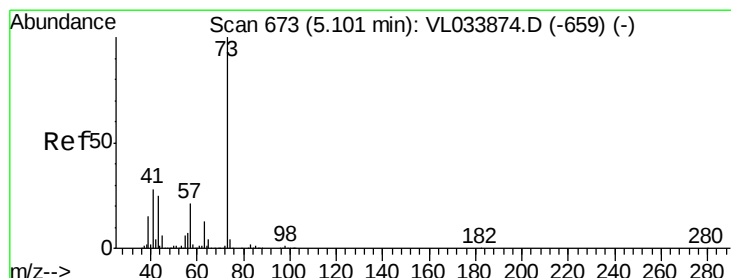
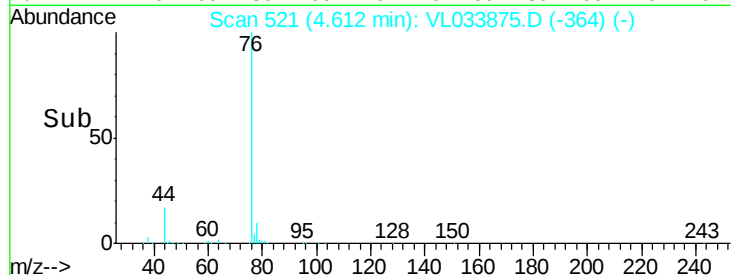
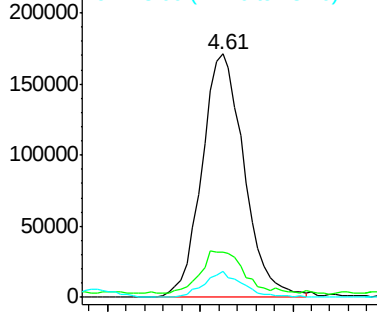
76 100

44 17.9 14.4 21.6

78 10.1 7.5 11.3



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: 1.876 ppbv

RT: 5.11 min Scan# 675

Delta R.T. 0.01 min

Lab File: VL033875.D

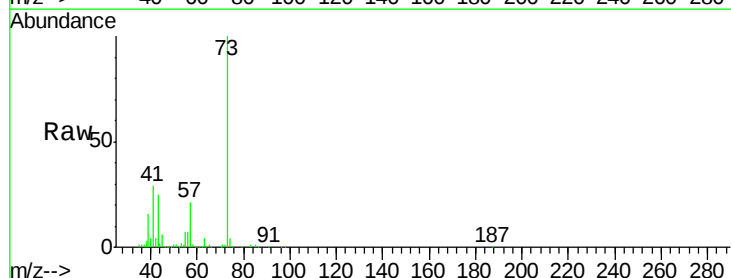
Acq: 7 Jun 2019 2:44

Tgt Ion: 73 Resp: 310855

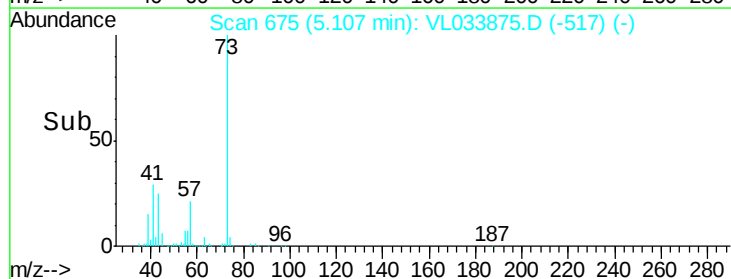
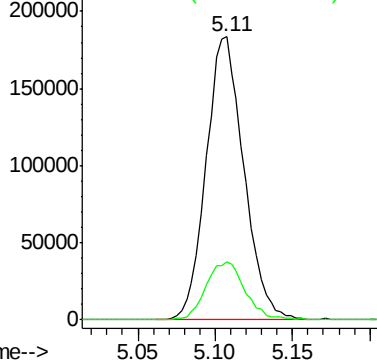
Ion Ratio Lower Upper

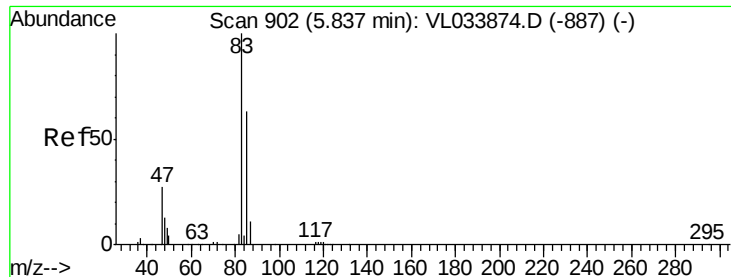
73 100

57 21.5 17.2 25.8



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 1.834 ppbv

RT: 5.83 min Scan# 901

Delta R.T. -0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

Instrument :

MSVOA_L

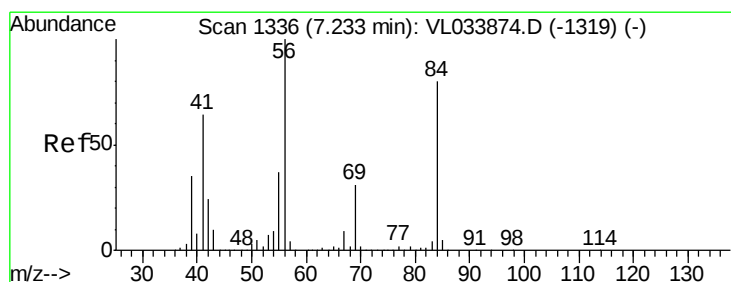
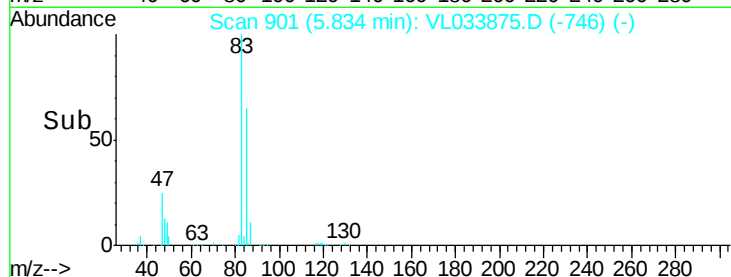
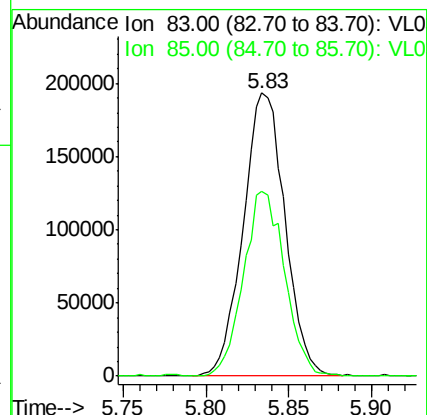
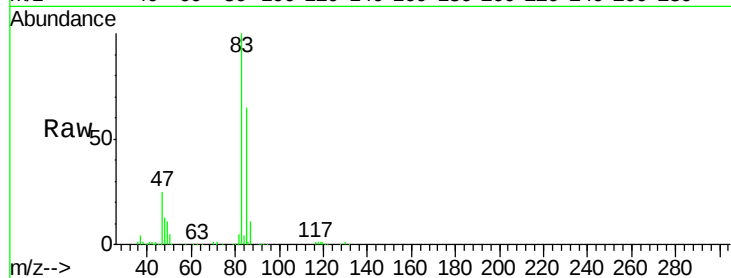
ClientSampled :

Tot Ion: 83 Resp: 340029

Ion Ratio Lower Upper

83 100

85 65.3 50.5 75.7



#30

Cyclohexane

Concen: 1.629 ppbv

RT: 7.23 min Scan# 1336

Delta R.T. -0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

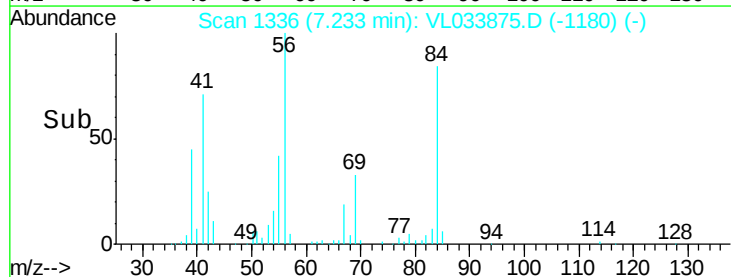
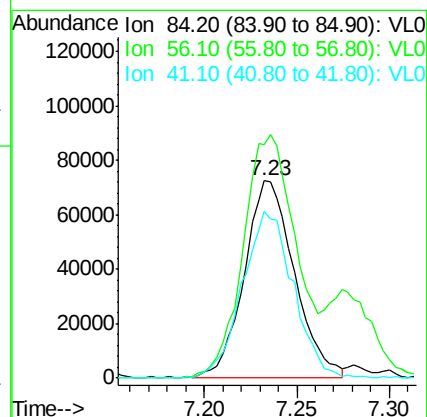
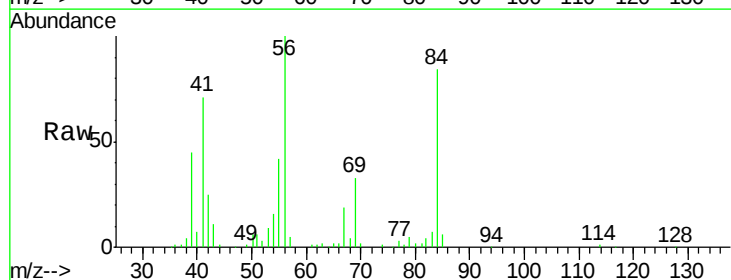
Tgt Ion: 84 Resp: 136082

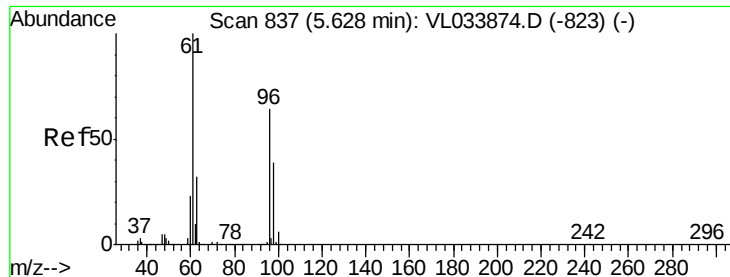
Ion Ratio Lower Upper

84 100

56 170.4 105.8 158.8#

41 86.4 65.7 98.5



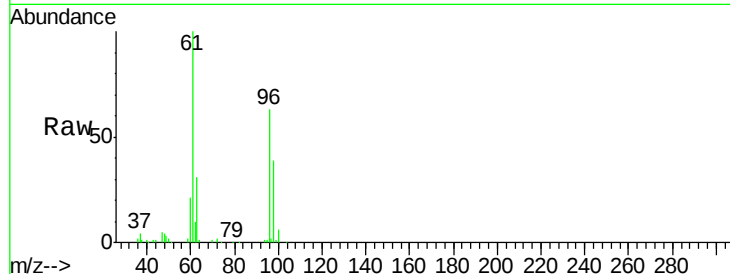


#31

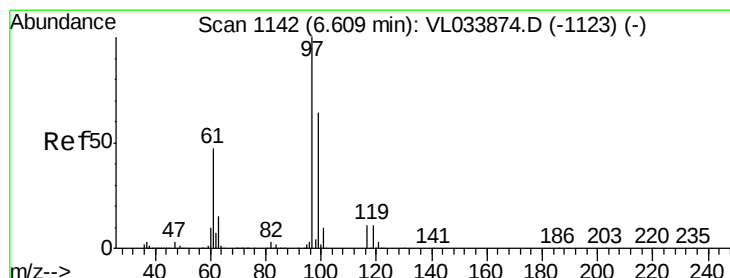
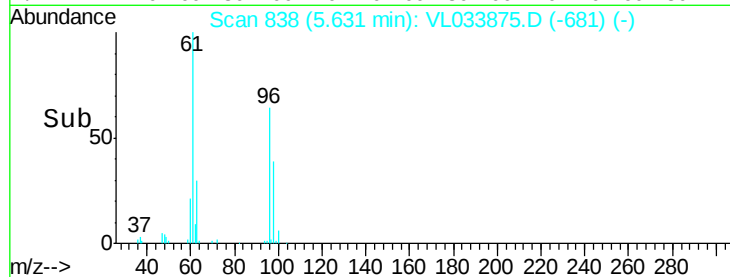
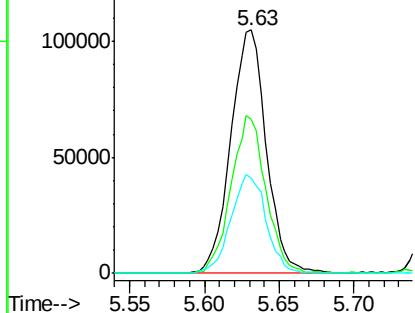
cis-1,2-Dichloroethene
 Concen: 1.735 ppbv
 RT: 5.63 min Scan# 838
 Delta R.T. 0.00 min
 Lab File: VL033875.D
 Acq: 7 Jun 2019 2:44

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
61	100		
96	63.5	50.9	76.3
98	39.2	31.4	47.2



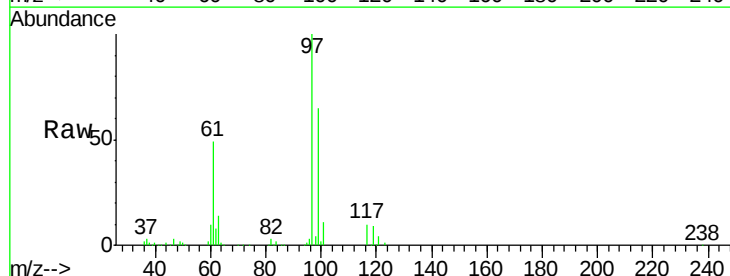
Abundance Ion 61.10 (60.80 to 61.80): VL0
 Ion 96.00 (95.70 to 96.70): VL0
 Ion 98.00 (97.70 to 98.70): VL0



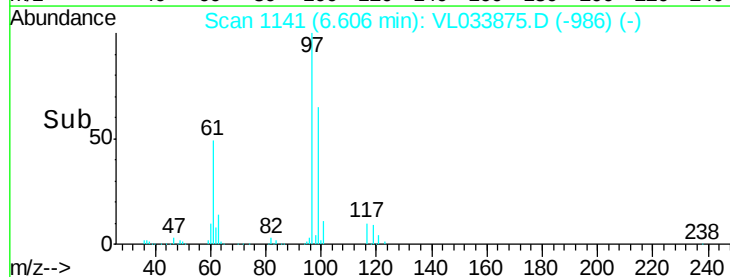
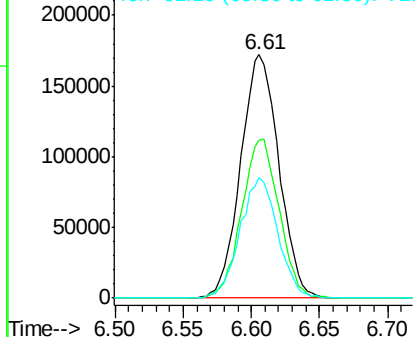
#32

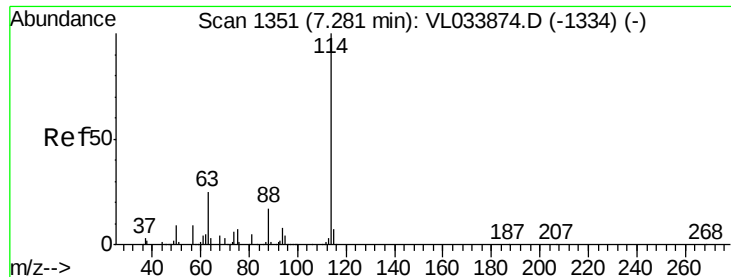
1,1,1-Trichloroethane
 Concen: 1.808 ppbv
 RT: 6.61 min Scan# 1141
 Delta R.T. -0.00 min
 Lab File: VL033875.D
 Acq: 7 Jun 2019 2:44

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.7	77.5
61	49.1	37.7	56.5



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





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.28 min Scan# 1350

Delta R.T. -0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

Instrument :

MSVOA_L

ClientSampleId :

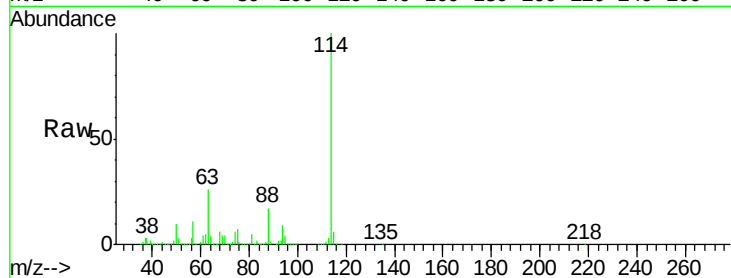
Tot Ion:114 Resp: 2260188

Ion Ratio Lower Upper

114 100

63 26.2 21.1 31.7

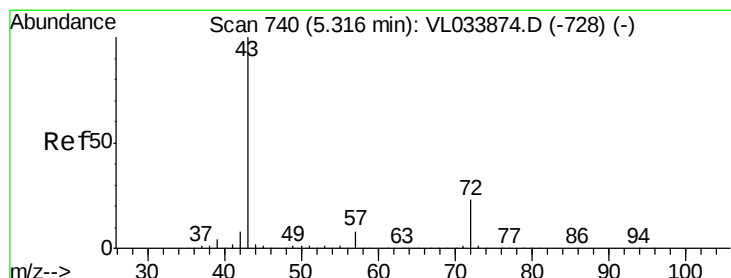
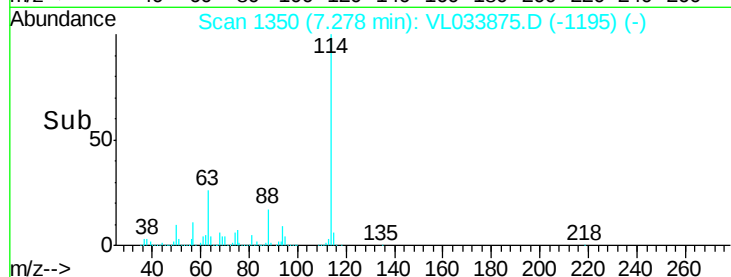
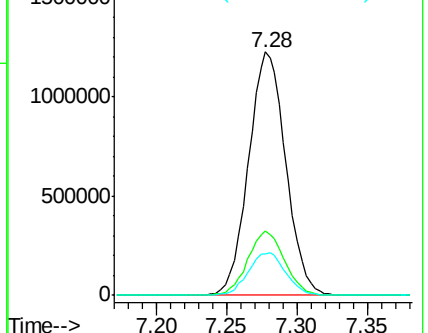
88 17.8 14.2 21.4



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 1.901 ppbv

RT: 5.32 min Scan# 741

Delta R.T. 0.00 min

Lab File: VL033875.D

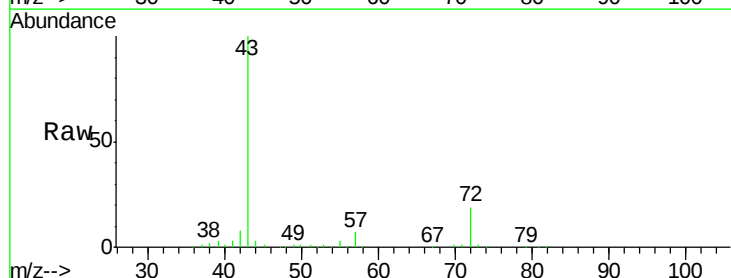
Acq: 7 Jun 2019 2:44

Tgt Ion: 43 Resp: 265624

Ion Ratio Lower Upper

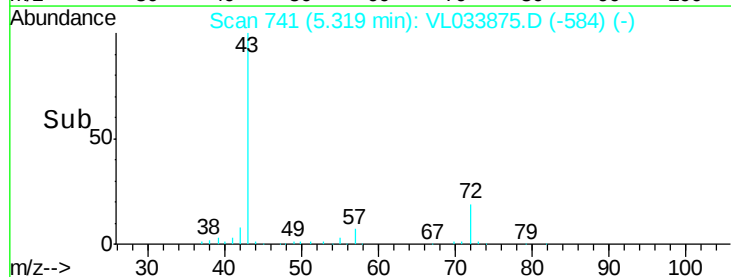
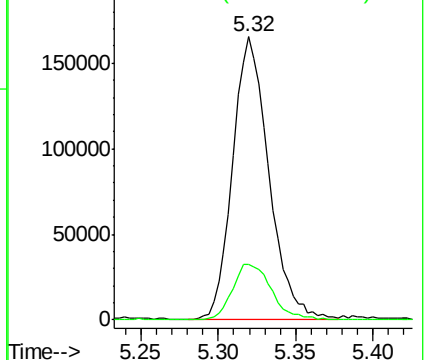
43 100

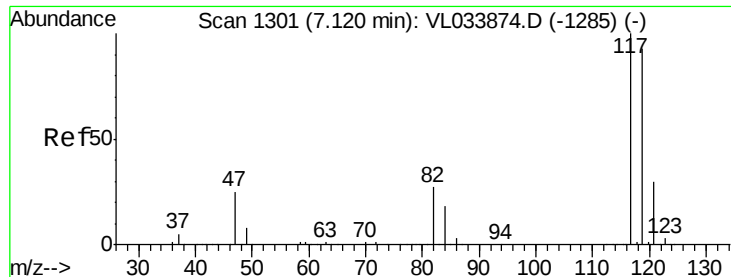
72 21.6 17.9 26.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 1.962 ppbv

RT: 7.12 min Scan# 1301

Delta R.T. -0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

Instrument :

MSVOA_L

ClientSampleId :

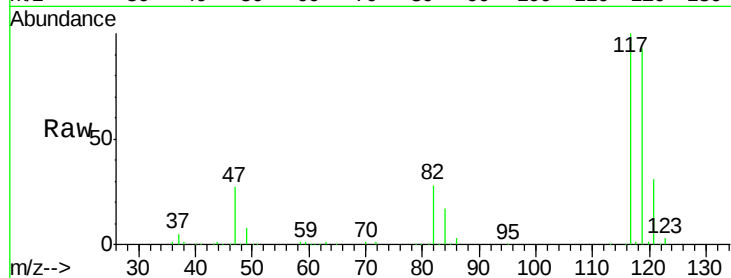
Tot Ion:117 Resp: 355819

Ion Ratio Lower Upper

117 100

119 91.8 74.6 111.8

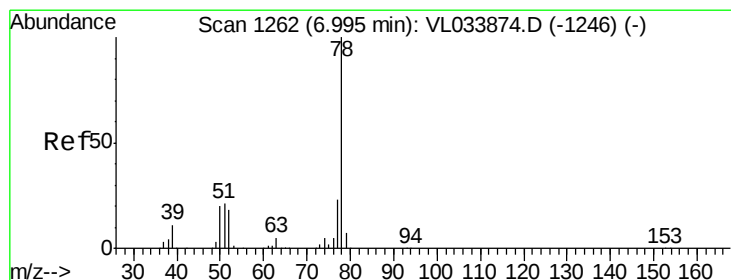
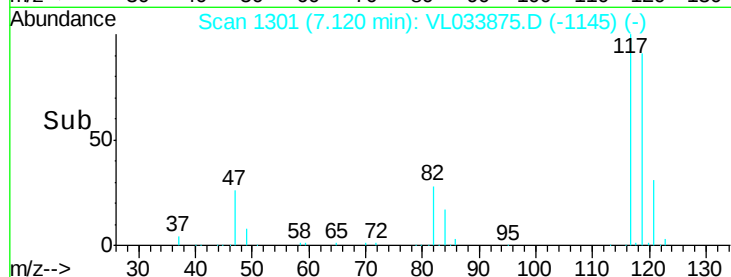
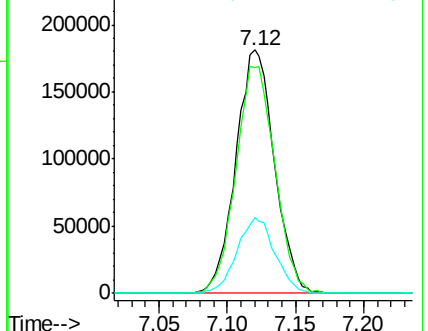
121 30.8 24.0 36.0



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: 1.733 ppbv

RT: 6.99 min Scan# 1262

Delta R.T. -0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

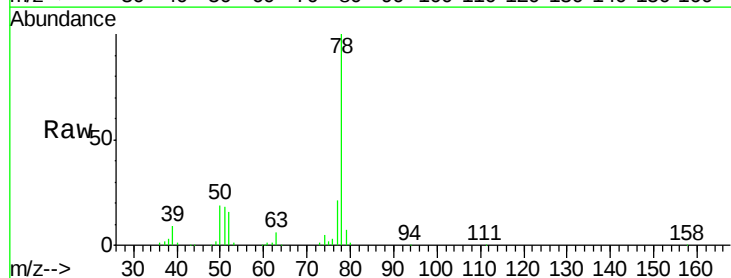
Tgt Ion: 78 Resp: 349890

Ion Ratio Lower Upper

78 100

77 20.8 18.2 27.2

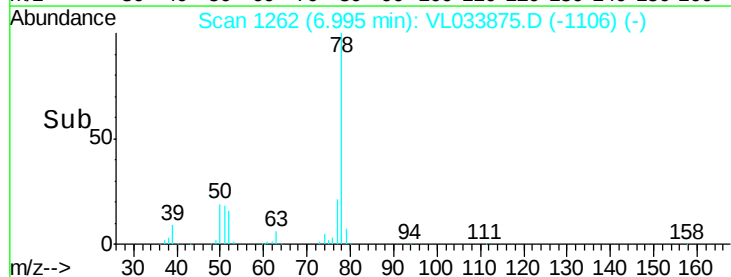
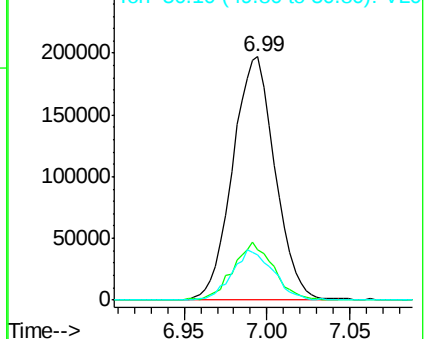
50 18.5 15.9 23.9

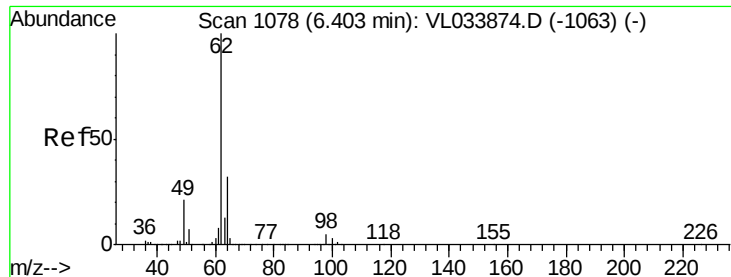


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

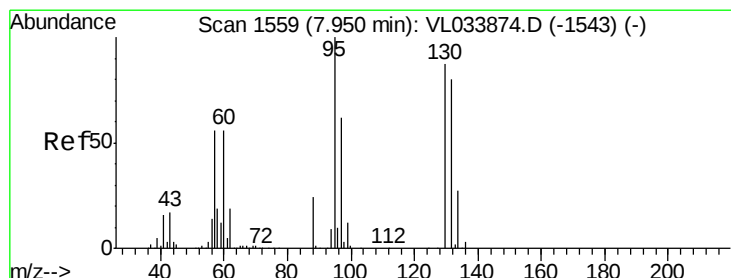
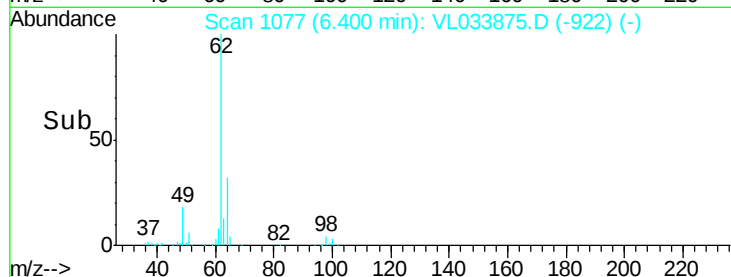
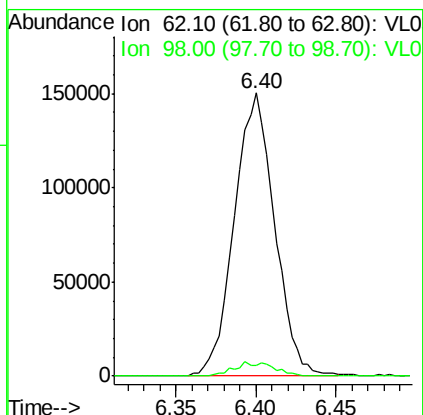
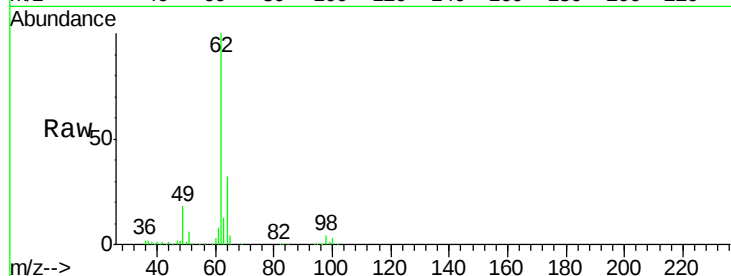




#37
 1,2-Dichloroethane
 Concen: 1.936 ppbv
 RT: 6.40 min Scan# 1077
 Delta R.T. -0.00 min
 Lab File: VL033875.D
 Acq: 7 Jun 2019 2:44

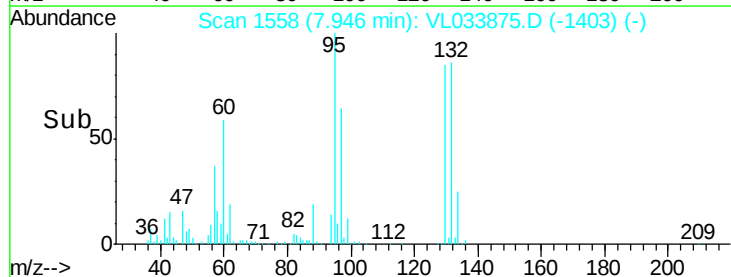
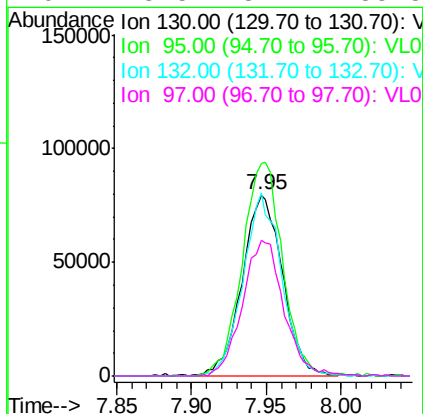
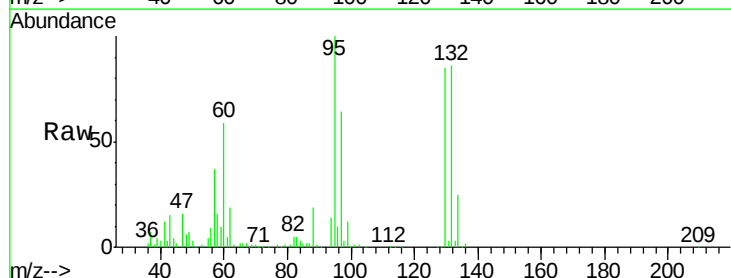
Instrument :
 MSVOA_L
 ClientSampleId :

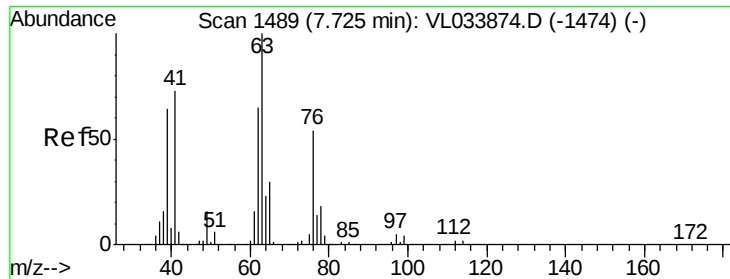
Tot Ion: 62 Resp: 257951
 Ion Ratio Lower Upper
 62 100
 98 5.0 4.0 6.0



#38
 Trichloroethene
 Concen: 1.933 ppbv
 RT: 7.95 min Scan# 1558
 Delta R.T. -0.00 min
 Lab File: VL033875.D
 Acq: 7 Jun 2019 2:44

Tgt Ion:130 Resp: 148026
 Ion Ratio Lower Upper
 130 100
 95 117.9 92.0 138.0
 132 104.8 73.8 110.8
 97 75.5 57.2 85.8





#39

1,2-Dichloropropane

Concen: 1.767 ppbv

RT: 7.72 min Scan# 1488

Delta R.T. -0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

Instrument :

MSVOA_L

ClientSampled :

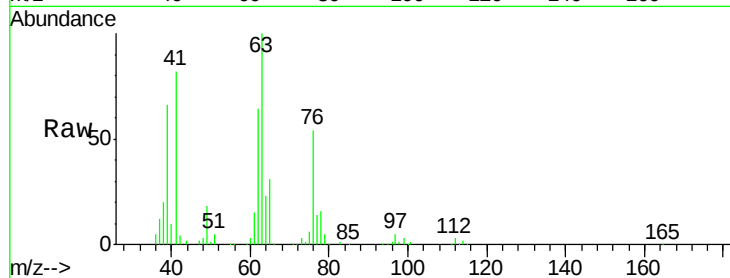
Tot Ion: 63 Resp: 133720

Ion Ratio Lower Upper

63 100

41 81.2 58.7 88.1

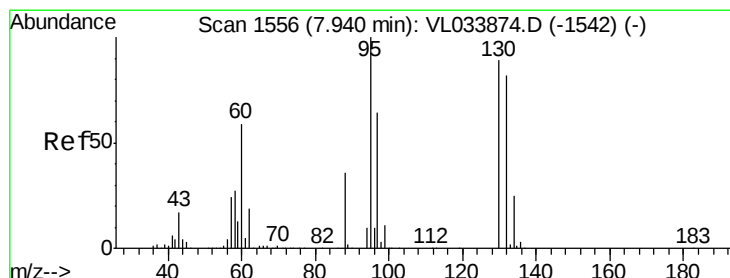
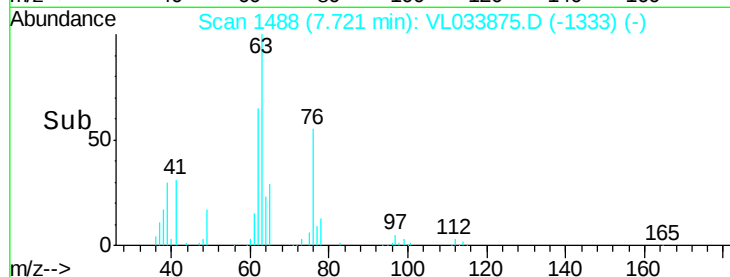
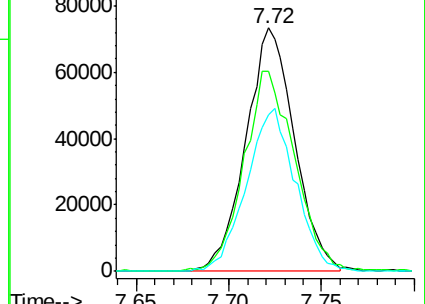
62 64.4 51.9 77.9



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: 1.544 ppbv

RT: 7.95 min Scan# 1560

Delta R.T. 0.01 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

Tgt Ion: 88 Resp: 49303

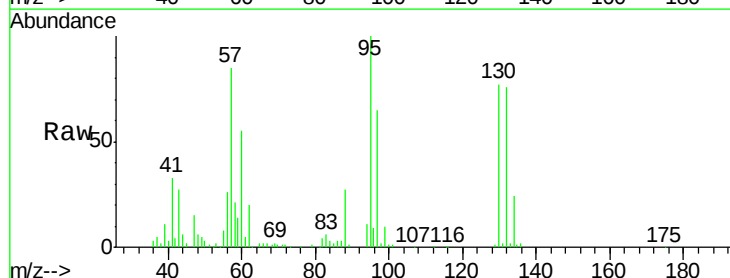
Ion Ratio Lower Upper

88 100

58 136.7 100.0 150.0

43 282.2 184.7 277.1#

57 1278.9 826.8 1240.2#

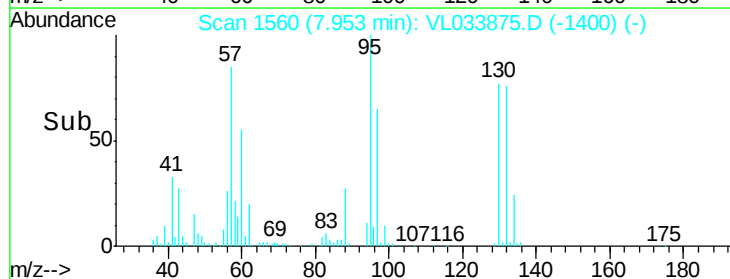
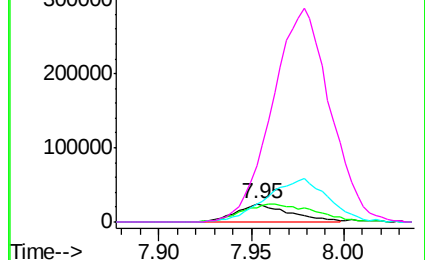


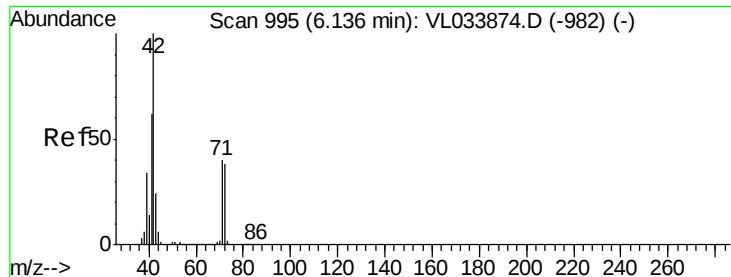
Abundance Ion 88.10 (87.80 to 88.80): VL0

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: 1.706 ppbv

RT: 6.14 min Scan# 997

Delta R.T. 0.01 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

Instrument :

MSVOA_L

ClientSampled :

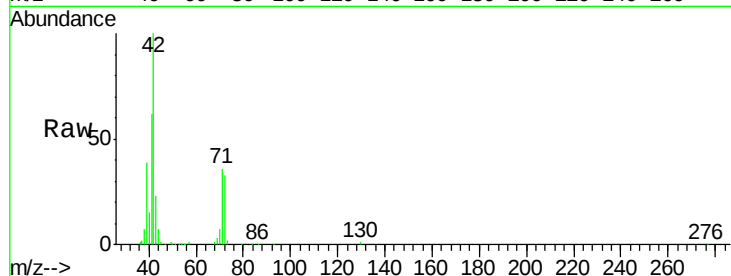
Tot Ion: 42 Resp: 131068

Ion Ratio Lower Upper

42 100

72 41.4 32.2 48.4

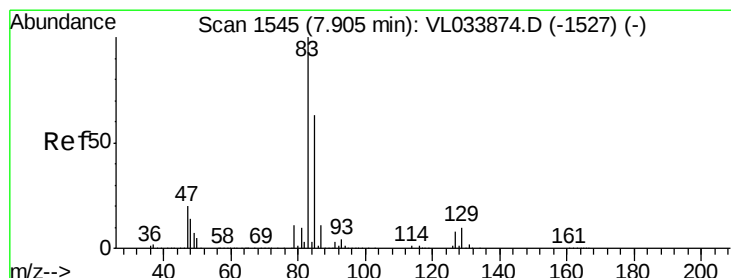
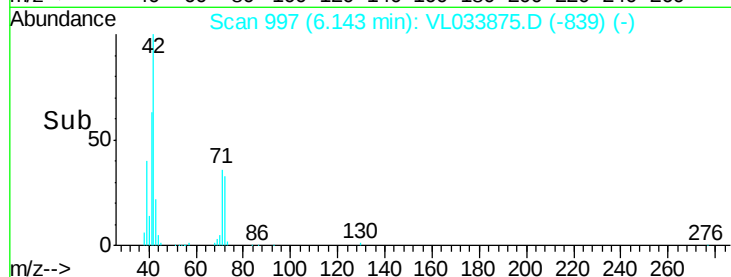
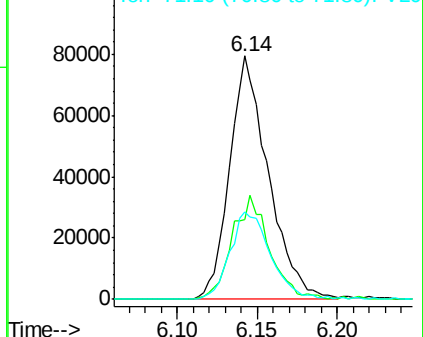
71 37.9 31.7 47.5



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: 1.875 ppbv

RT: 7.90 min Scan# 1544

Delta R.T. -0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

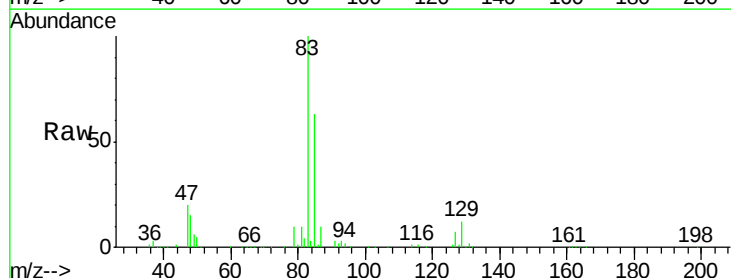
Tgt Ion: 83 Resp: 340326

Ion Ratio Lower Upper

83 100

85 63.3 50.2 75.2

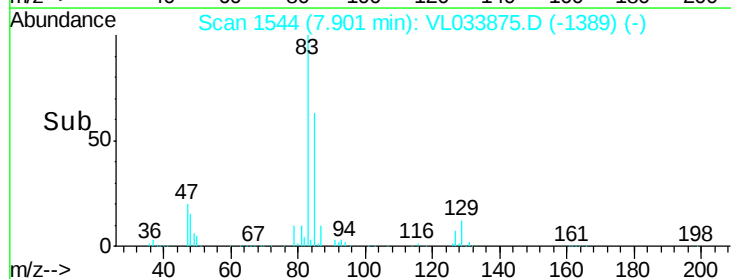
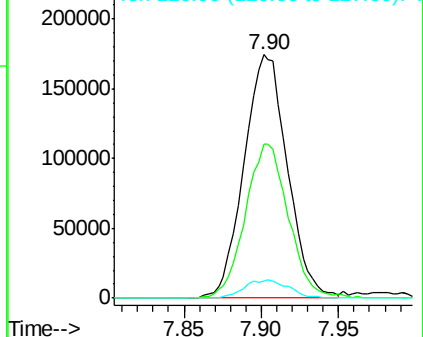
127 7.3 6.5 9.7

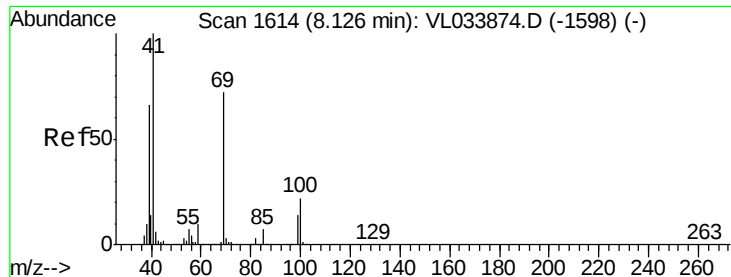


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

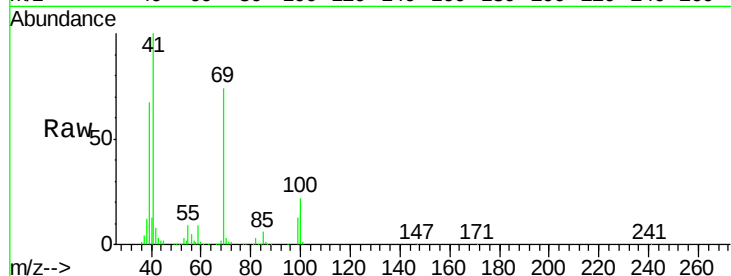




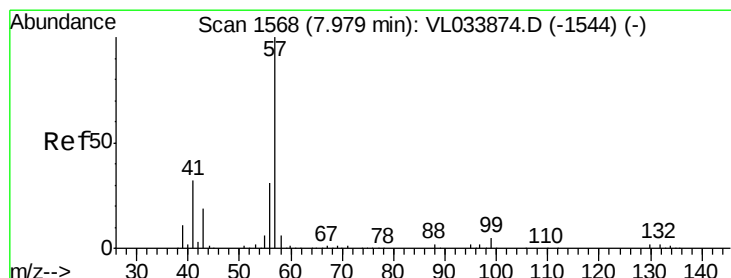
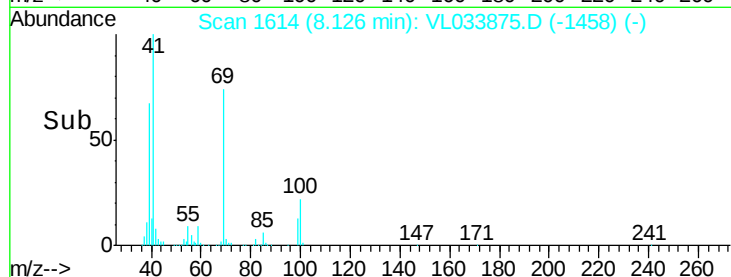
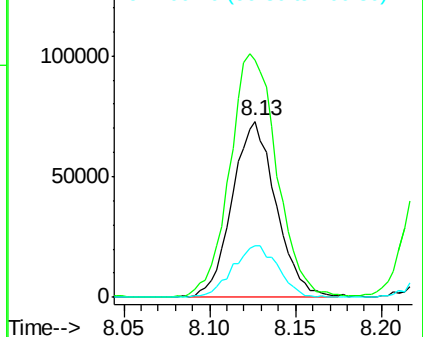
#43
Methvl Methacrilate
Concen: 1.701 ppbv
RT: 8.13 min Scan# 1614
Delta R.T. 0.00 min
Lab File: VL033875.D
Acq: 7 Jun 2019 2:44

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 69 Resp: 127509
Ion Ratio Lower Upper
69 100
41 150.4 114.3 171.5
100 30.7 24.8 37.2

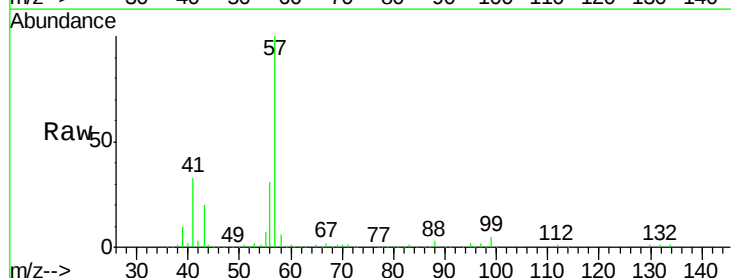


Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0

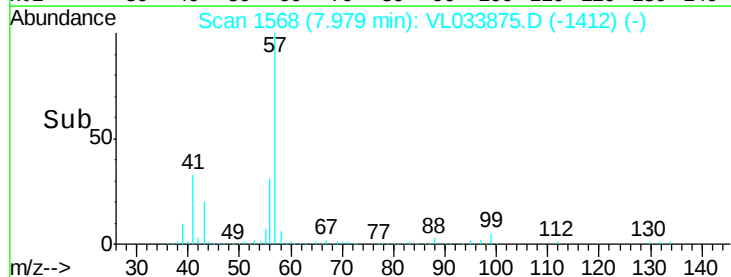
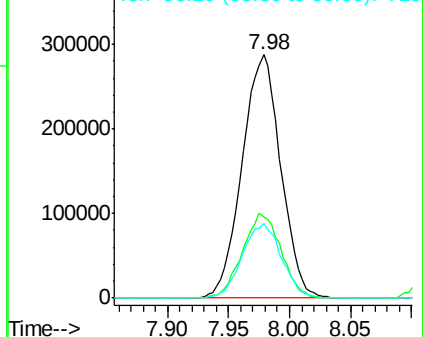


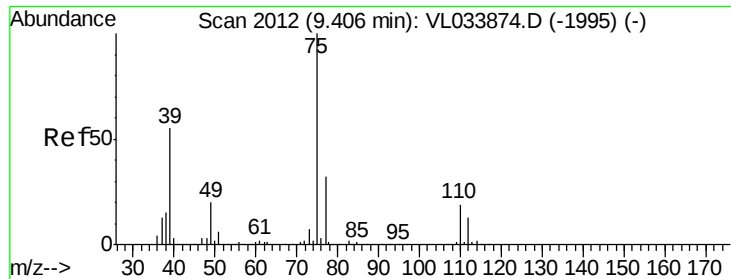
#44
2,2,4-Trimethylpentane
Concen: 1.830 ppbv
RT: 7.98 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VL033875.D
Acq: 7 Jun 2019 2:44

Tgt Ion: 57 Resp: 629325
Ion Ratio Lower Upper
57 100
41 35.0 26.1 39.1
56 31.3 24.6 36.8



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#45

t-1,3-Dichloropropene

Concen: 1.645 ppbv

RT: 9.40 min Scan# 2011

Delta R.T. -0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

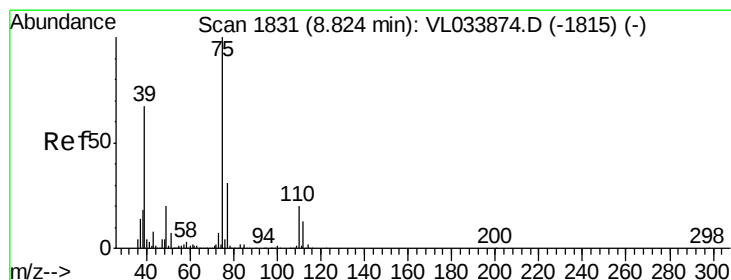
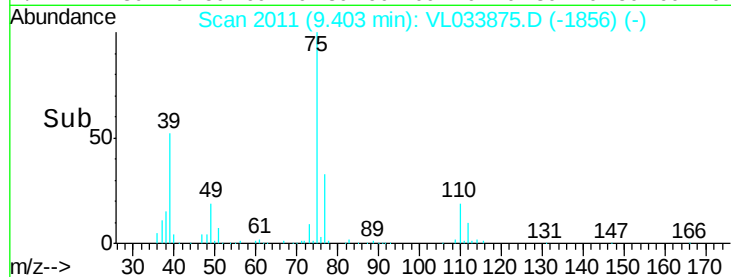
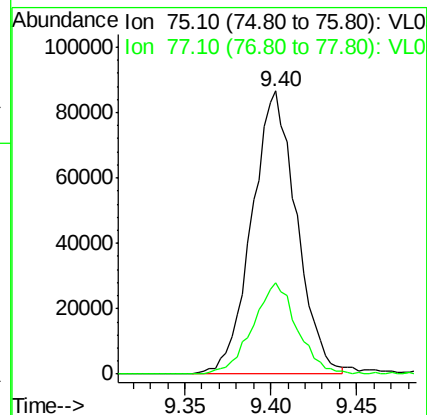
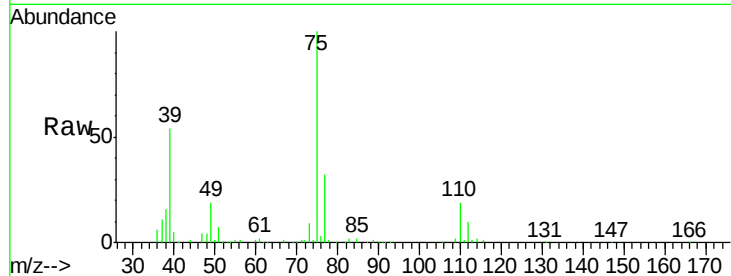
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 75 Resp: 156152

Ion Ratio Lower Upper

75 100

77 32.4 25.4 38.2



#46

cis-1,3-Dichloropropene

Concen: 1.676 ppbv

RT: 8.82 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

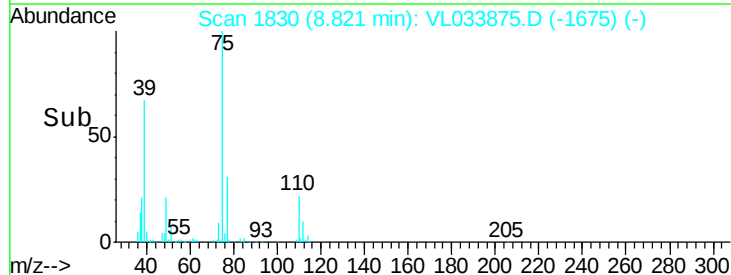
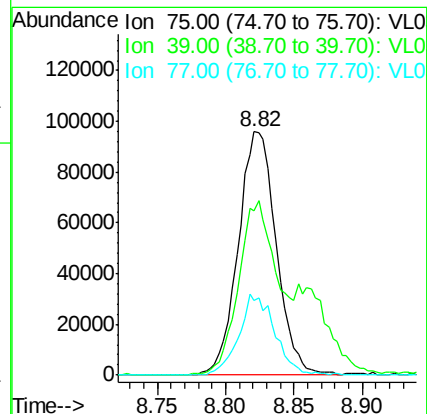
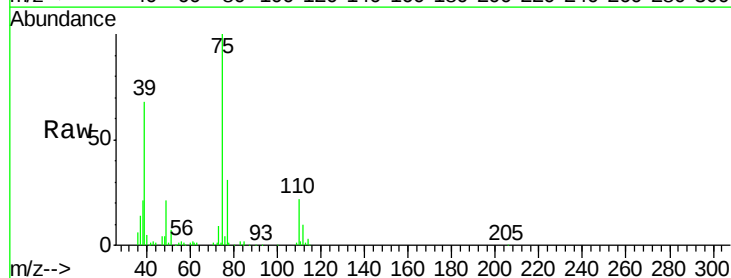
Tgt Ion: 75 Resp: 185510

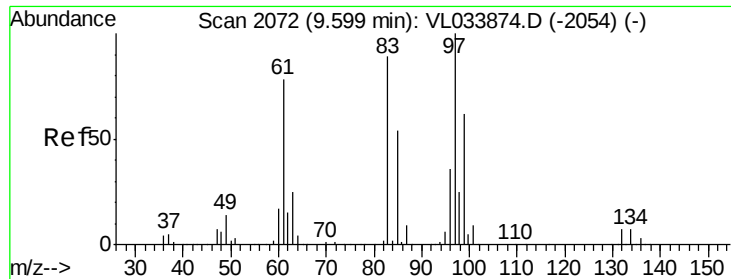
Ion Ratio Lower Upper

75 100

39 67.1 53.8 80.8

77 30.8 24.6 36.8

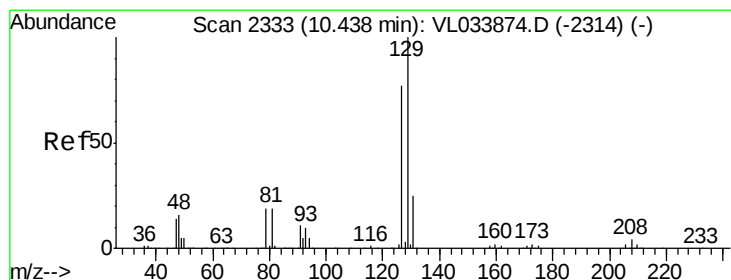
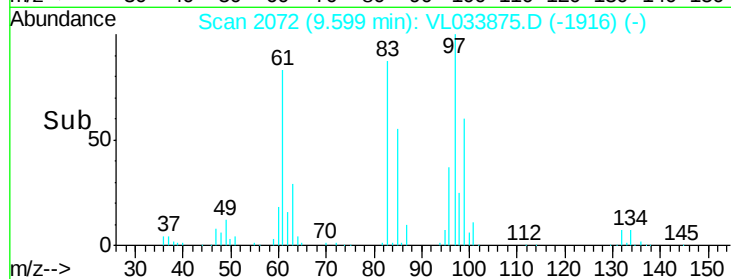
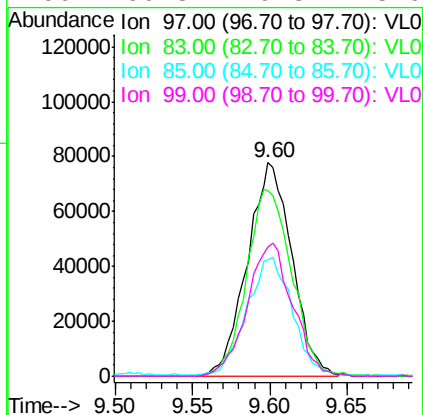
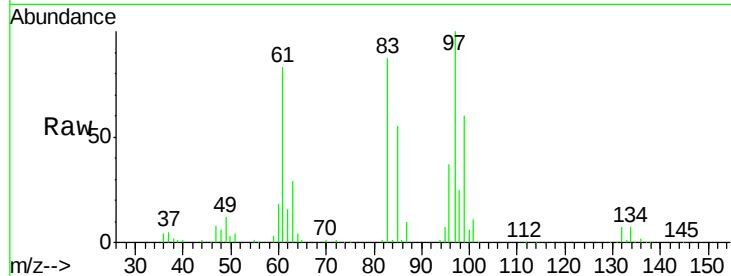




#47
 1,1,2-Trichloroethane
 Concen: 1.798 ppbv
 RT: 9.60 min Scan# 2072
 Delta R.T. -0.00 min
 Lab File: VL033875.D
 Acq: 7 Jun 2019 2:44

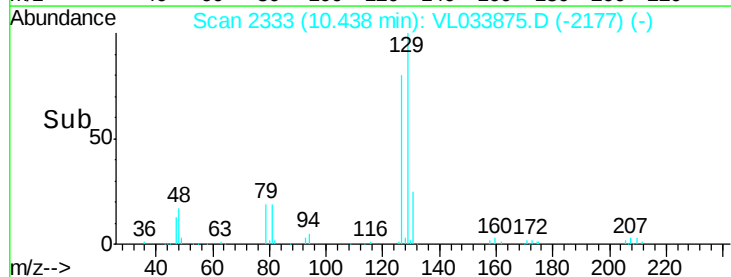
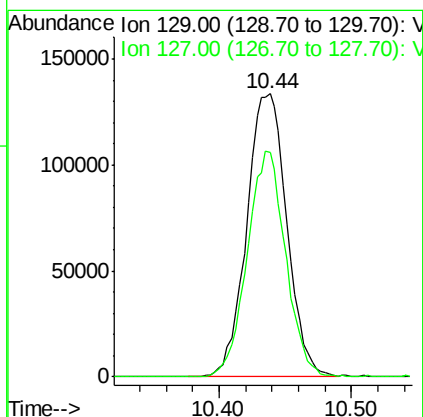
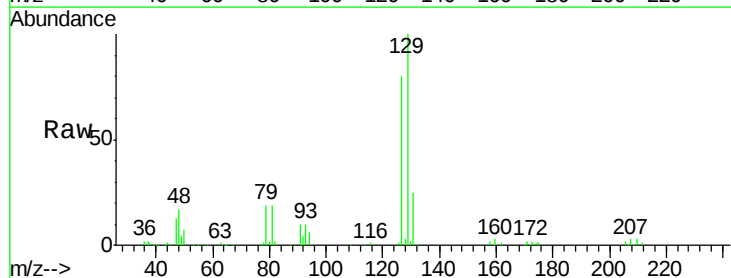
Instrument :
 MSVOA_L
 ClientSampleId :

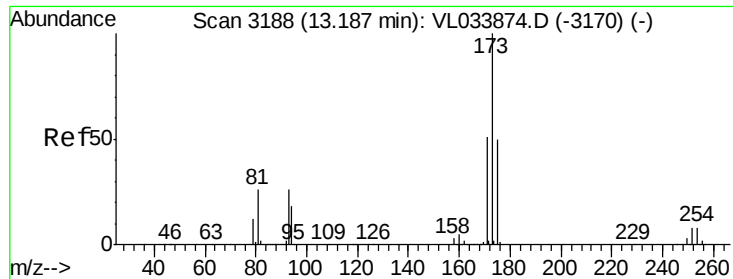
Tot Ion: 97 Resp: 155852
 Ion Ratio Lower Upper
 97 100
 83 87.0 70.9 106.3
 85 53.7 43.0 64.6
 99 60.3 49.3 73.9



#48
 Dibromochloromethane
 Concen: 1.864 ppbv
 RT: 10.44 min Scan# 2333
 Delta R.T. -0.00 min
 Lab File: VL033875.D
 Acq: 7 Jun 2019 2:44

Tgt Ion: 129 Resp: 281270
 Ion Ratio Lower Upper
 129 100
 127 76.2 38.6 115.7





#49

Bromoform

Concen: 1.886 ppbv

RT: 13.19 min Scan# 3188

Delta R.T. -0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

Instrument :

MSVOA_L

ClientSampleId :

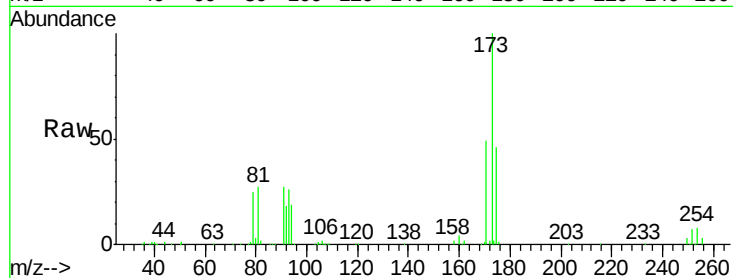
Tot Ion:173 Resp: 244010

Ion Ratio Lower Upper

173 100

175 48.8 39.6 59.4

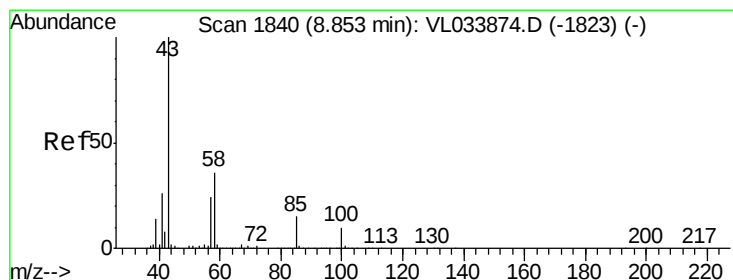
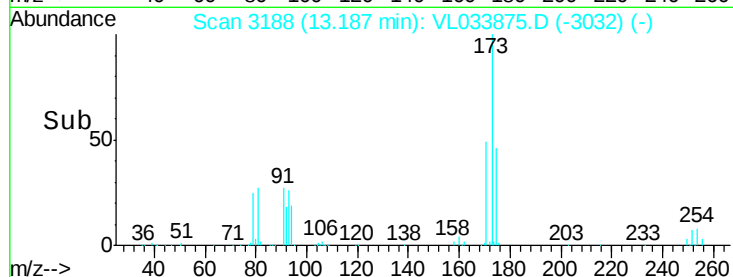
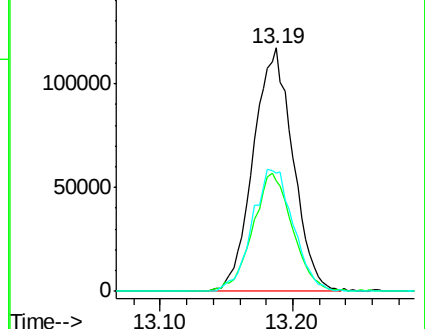
171 51.9 41.8 62.8



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: 1.839 ppbv

RT: 8.86 min Scan# 1842

Delta R.T. 0.01 min

Lab File: VL033875.D

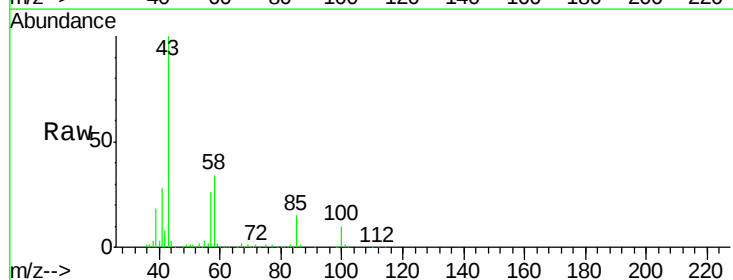
Acq: 7 Jun 2019 2:44

Tgt Ion: 43 Resp: 391489

Ion Ratio Lower Upper

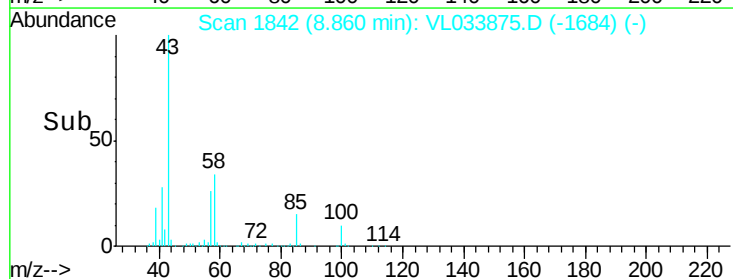
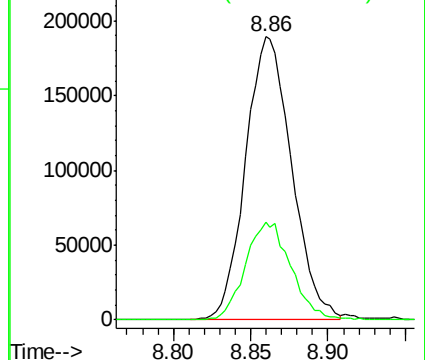
43 100

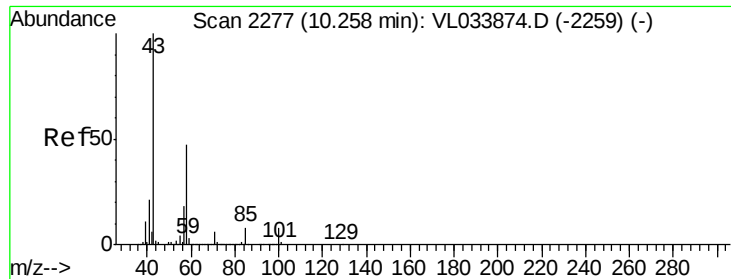
58 34.4 28.6 42.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

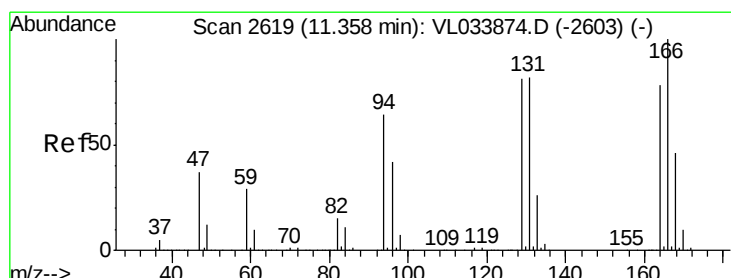
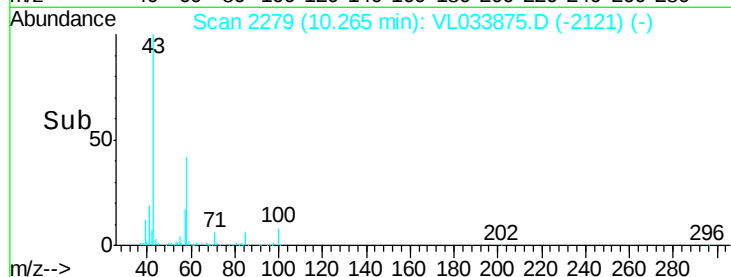
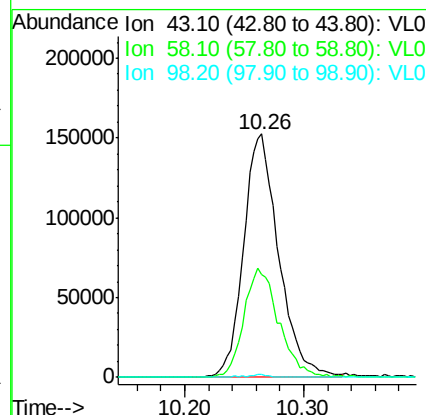
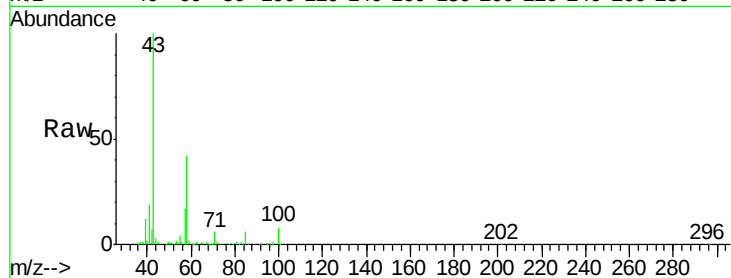




#51
2-Hexanone
Concen: 1.874 ppbv
RT: 10.26 min Scan# 2279
Delta R.T. 0.01 min
Lab File: VL033875.D
Acq: 7 Jun 2019 2:44

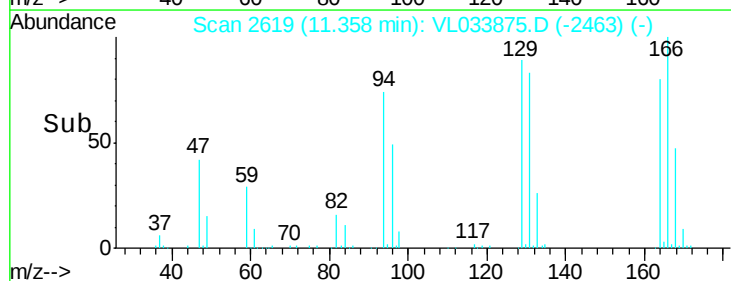
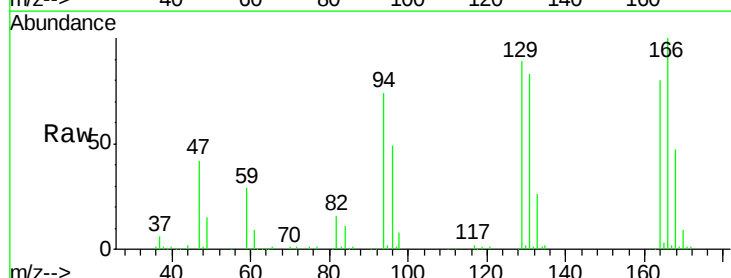
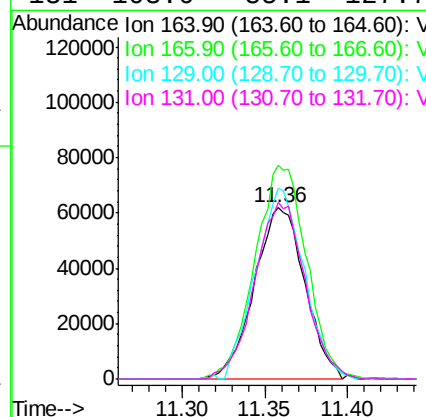
Instrument :
MSVOA_L
ClientSampleId :

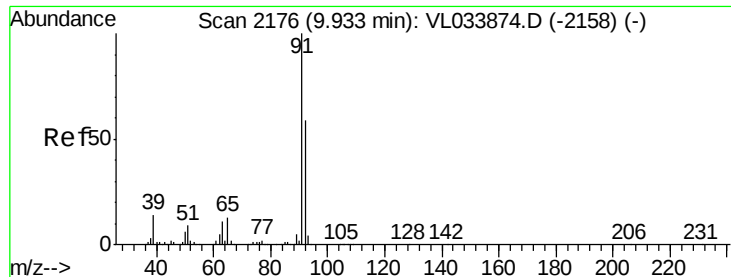
Tot Ion: 43 Resp: 311459
Ion Ratio Lower Upper
43 100
58 44.8 38.2 57.4
98 0.8 0.2 0.2#



#52
Tetrachloroethene
Concen: 1.828 ppbv
RT: 11.36 min Scan# 2619
Delta R.T. 0.00 min
Lab File: VL033875.D
Acq: 7 Jun 2019 2:44

Tgt Ion: 164 Resp: 131481
Ion Ratio Lower Upper
164 100
166 124.5 103.1 154.7
129 111.1 83.9 125.9
131 103.0 85.1 127.7





#53

Toluene

Concen: 1.759 ppbv

RT: 9.93 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

Instrument :

MSVOA_L

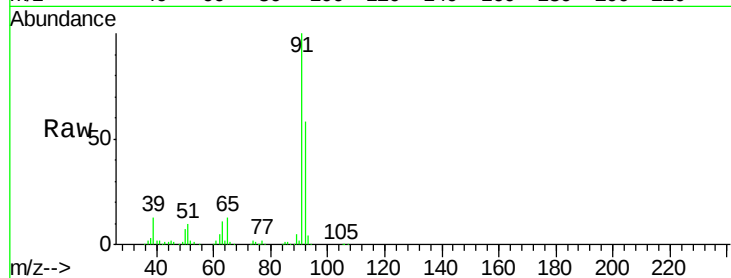
ClientSampleId :

Tot Ion: 91 Resp: 386223

Ion Ratio Lower Upper

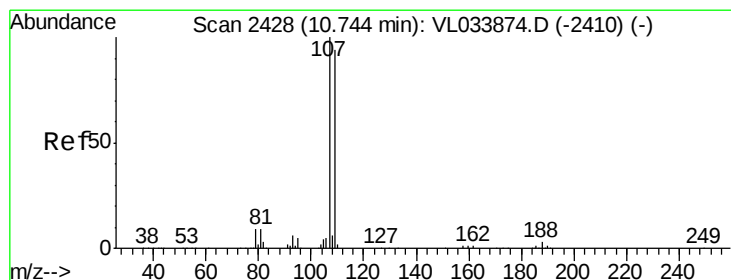
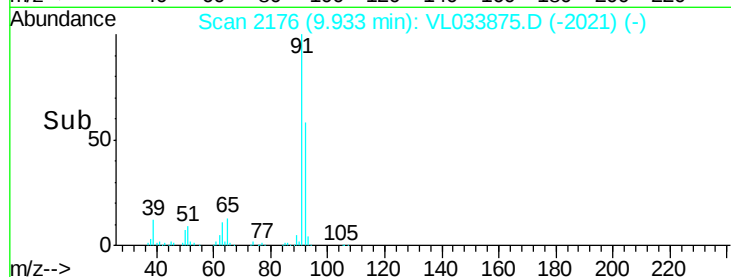
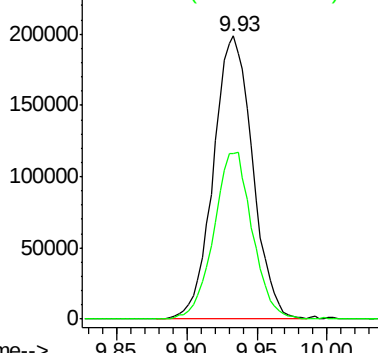
91 100

92 58.2 47.0 70.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 1.789 ppbv

RT: 10.75 min Scan# 2429

Delta R.T. 0.00 min

Lab File: VL033875.D

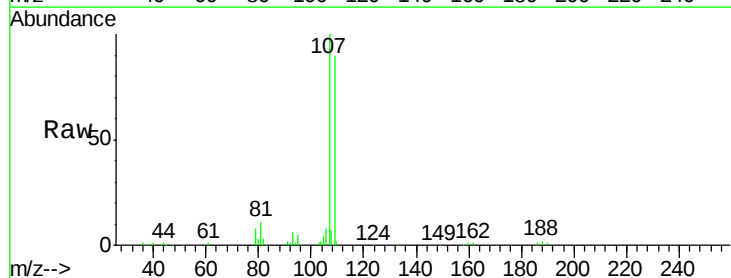
Acq: 7 Jun 2019 2:44

Tgt Ion: 107 Resp: 236332

Ion Ratio Lower Upper

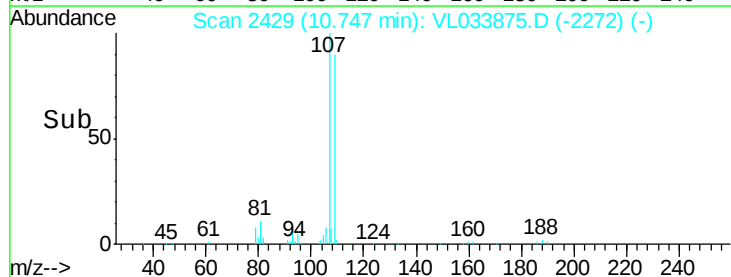
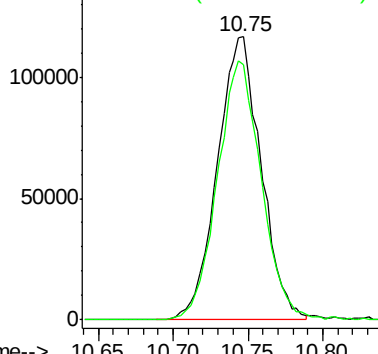
107 100

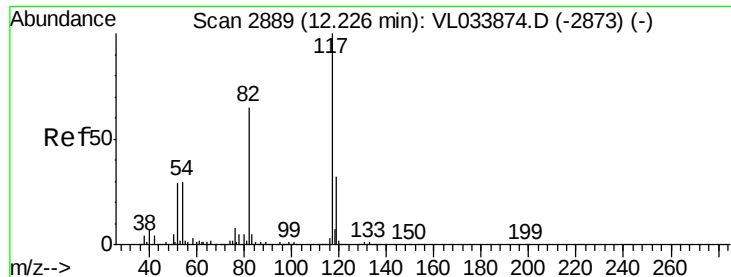
109 90.1 74.9 112.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

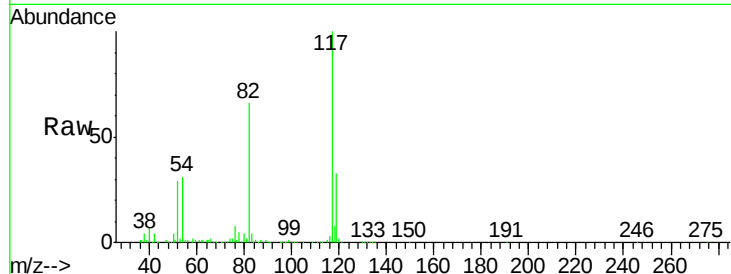




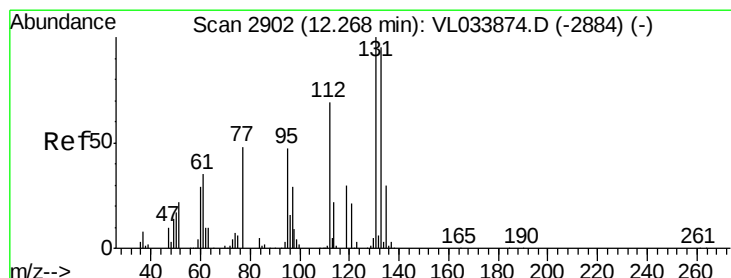
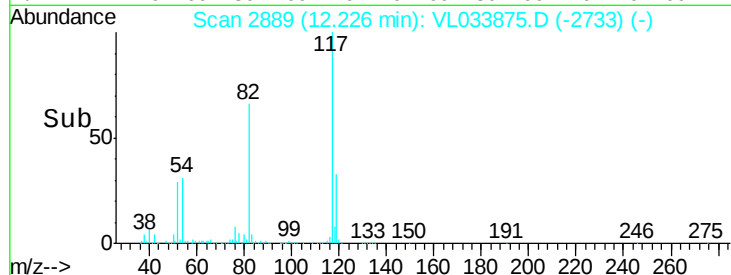
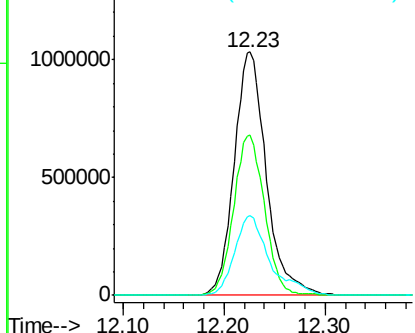
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2889
Delta R.T. 0.00 min
Lab File: VL033875.D
Acq: 7 Jun 2019 2:44

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:117 Resp: 2277777
Ion Ratio Lower Upper
117 100
82 63.8 50.2 75.2
119 36.1 24.8 37.2

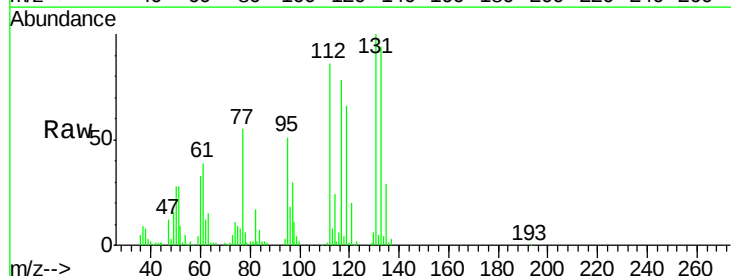


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): V
Ion 119.10 (118.80 to 119.80): V

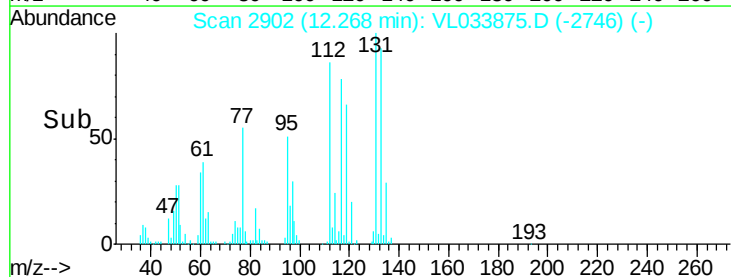
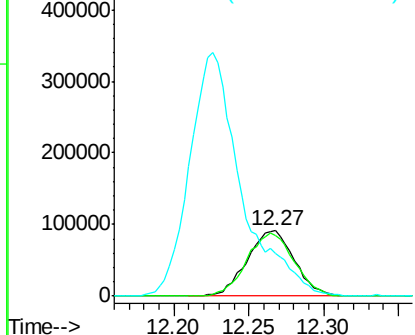


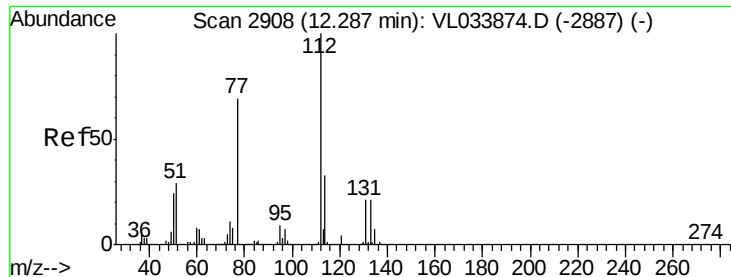
#56
1,1,1,2-Tetrachloroethane
Concen: 1.929 ppbv
RT: 12.27 min Scan# 2902
Delta R.T. -0.00 min
Lab File: VL033875.D
Acq: 7 Jun 2019 2:44

Tgt Ion:131 Resp: 201676
Ion Ratio Lower Upper
131 100
133 96.2 76.5 114.7
119 407.6 42.6 64.0#



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

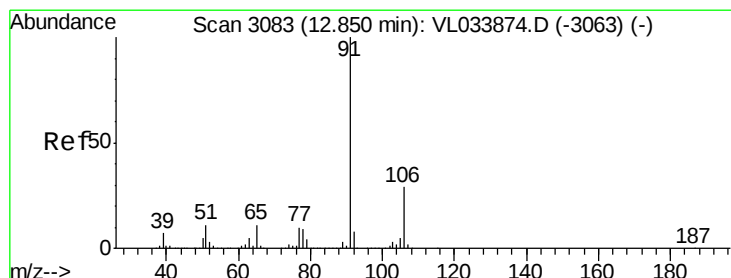
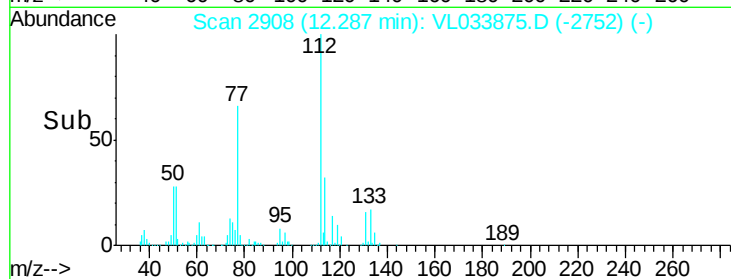
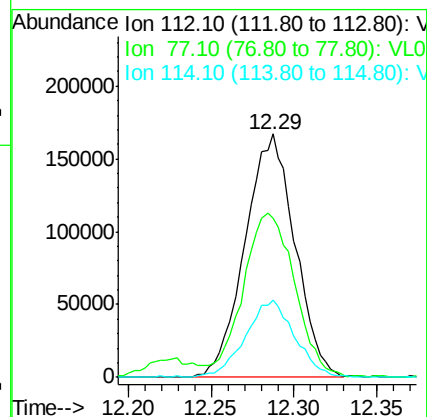
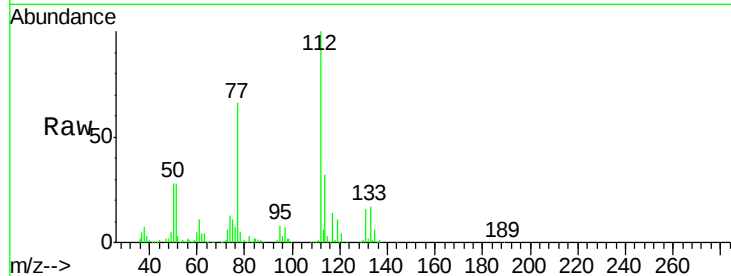




#57
Chlorobenzene
Concen: 1.880 ppbv
RT: 12.29 min Scan# 2908
Delta R.T. -0.00 min
Lab File: VL033875.D
Acq: 7 Jun 2019 2:44

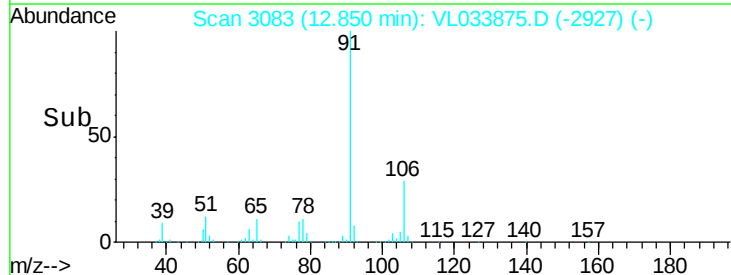
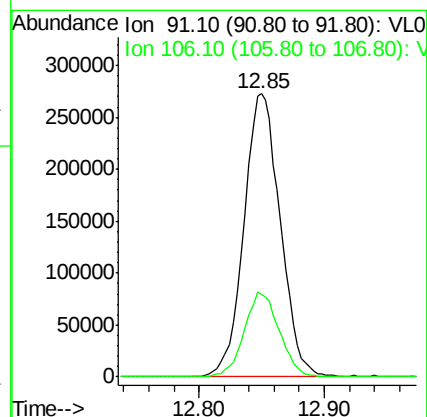
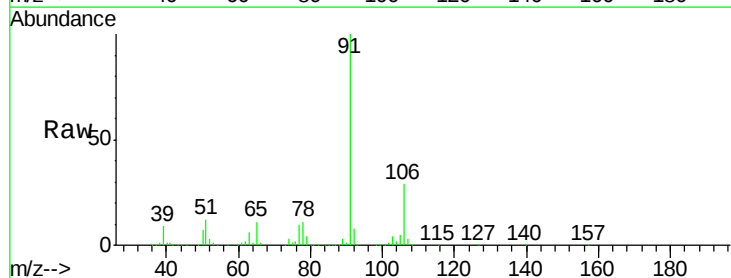
Instrument :
MSVOA_L
ClientSampleId :

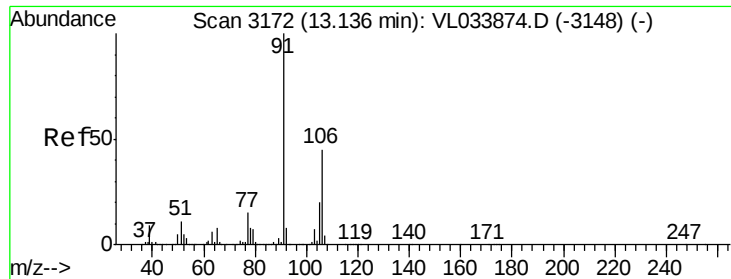
Tot Ion:112 Resp: 348884
Ion Ratio Lower Upper
112 100
77 64.5 55.8 83.6
114 31.5 29.8 36.4



#58
Ethyl Benzene
Concen: 1.849 ppbv
RT: 12.85 min Scan# 3083
Delta R.T. 0.00 min
Lab File: VL033875.D
Acq: 7 Jun 2019 2:44

Tgt Ion: 91 Resp: 548071
Ion Ratio Lower Upper
91 100
106 29.1 23.0 34.6

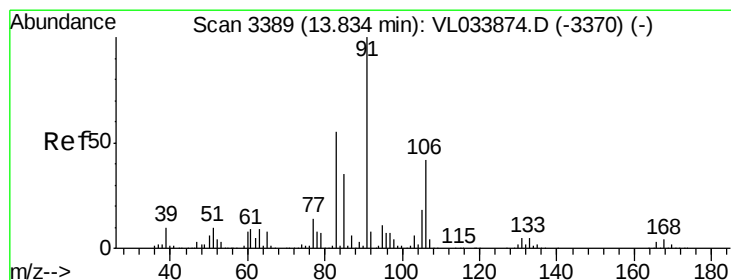
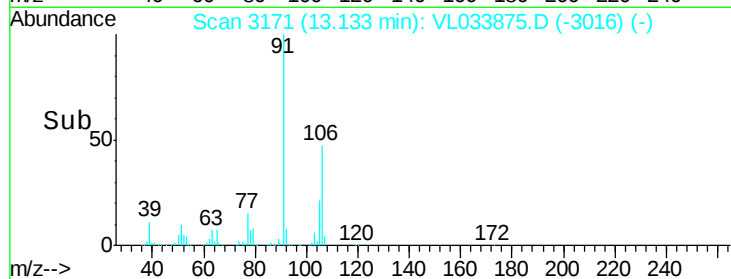
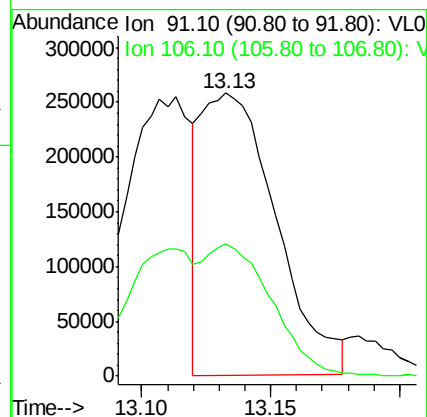
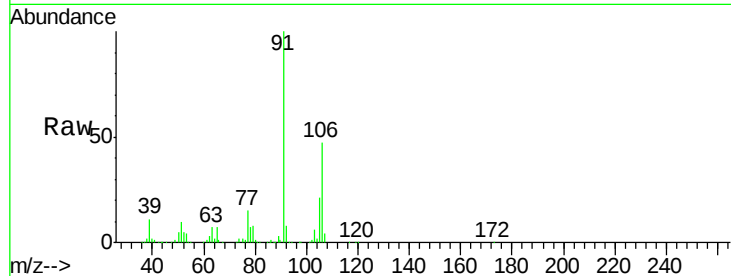




#59
m/p-Xylene
Concen: 1.991 ppbv
RT: 13.13 min Scan# 3171
Delta R.T. -0.00 min
Lab File: VL033875.D
Acq: 7 Jun 2019 2:44

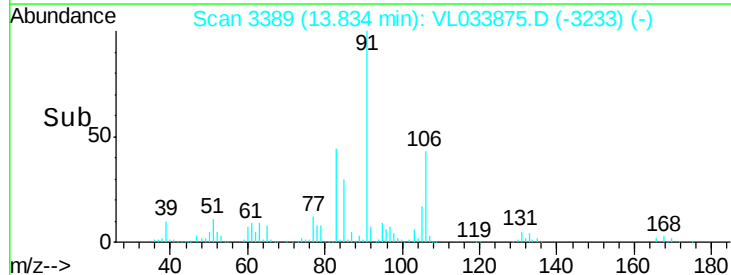
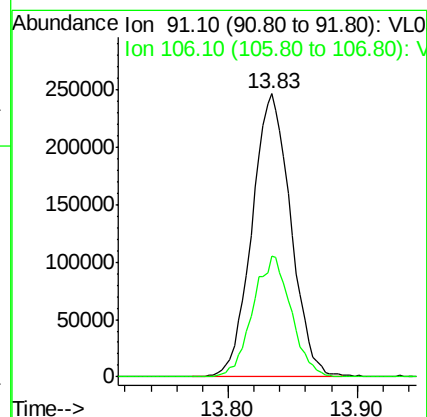
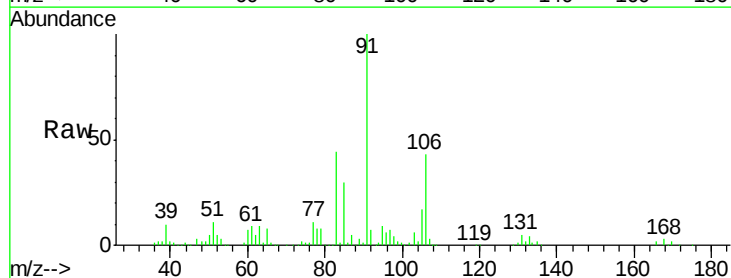
Instrument :
MSVOA_L
ClientSampleId :

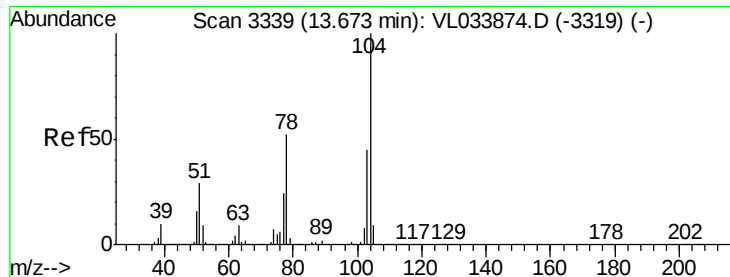
Tot Ion: 91 Resp: 518543
Ion Ratio Lower Upper
91 100
106 84.5 35.8 53.8#



#60
o-Xylene
Concen: 1.949 ppbv
RT: 13.83 min Scan# 3389
Delta R.T. 0.00 min
Lab File: VL033875.D
Acq: 7 Jun 2019 2:44

Tgt Ion: 91 Resp: 516522
Ion Ratio Lower Upper
91 100
106 42.4 21.7 65.1





#61

Stvrene

Concen: 1.864 ppbv

RT: 13.67 min Scan# 3338

Delta R.T. -0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

Instrument :

MSVOA_L

ClientSampleId :

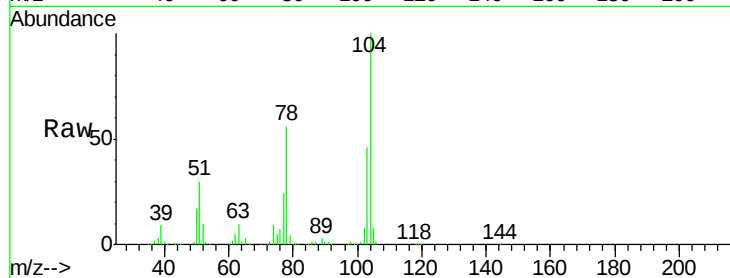
Tot Ion:104 Resp: 329301

Ion Ratio Lower Upper

104 100

78 55.7 43.4 65.0

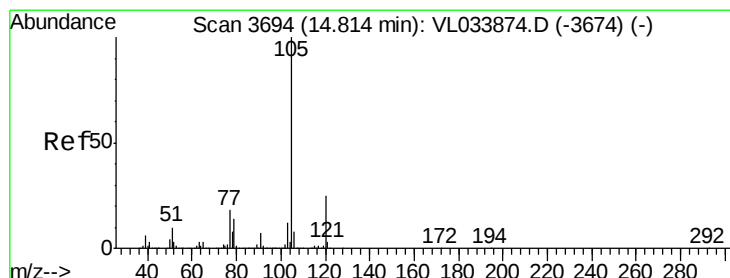
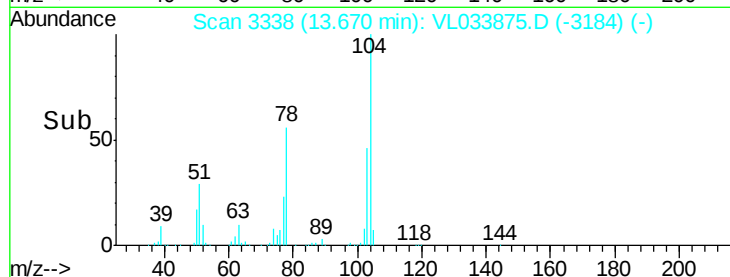
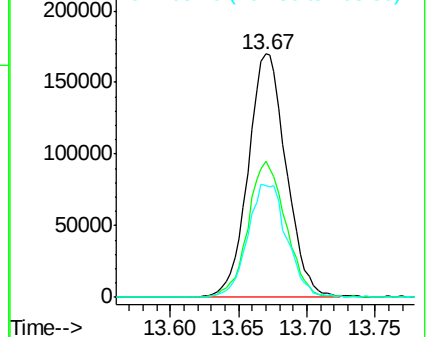
103 48.1 37.6 56.4



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: 1.902 ppbv

RT: 14.81 min Scan# 3693

Delta R.T. -0.00 min

Lab File: VL033875.D

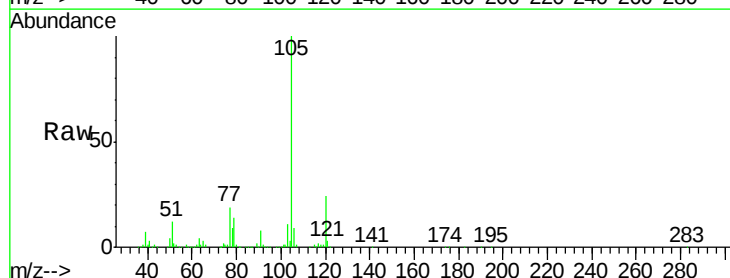
Acq: 7 Jun 2019 2:44

Tgt Ion:105 Resp: 677869

Ion Ratio Lower Upper

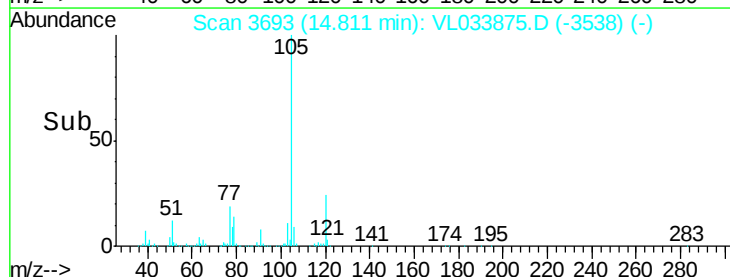
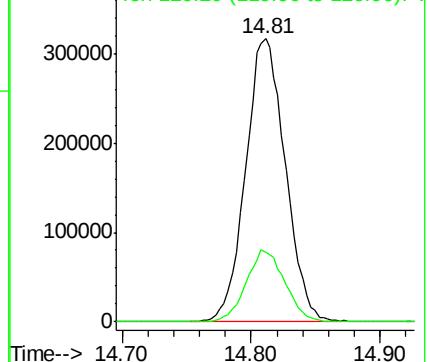
105 100

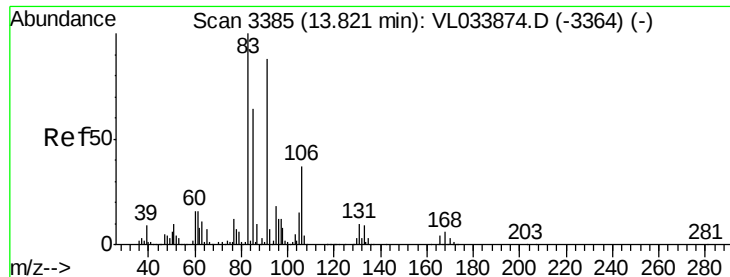
120 24.6 20.3 30.5



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: 1.987 ppbv

RT: 13.82 min Scan# 3385

Delta R.T. -0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

Instrument :

MSVOA_L

ClientSampleId :

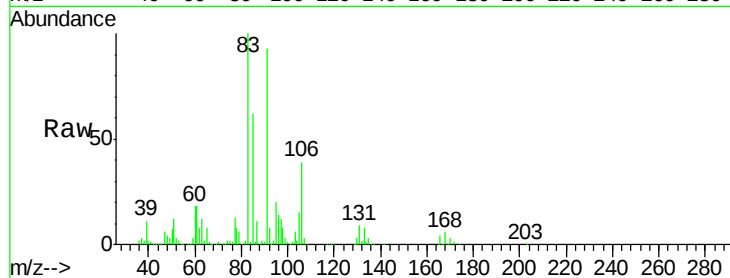
Tot Ion: 83 Resp: 384885

Ion Ratio Lower Upper

83 100

131 9.8 4.8 14.4

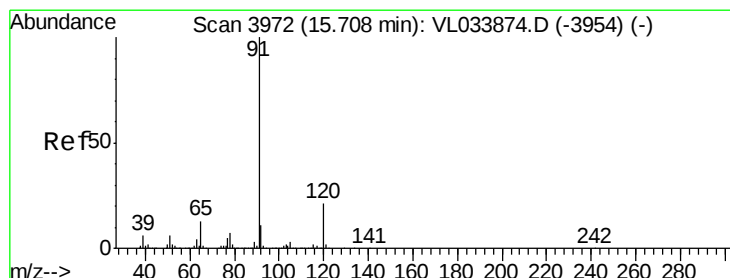
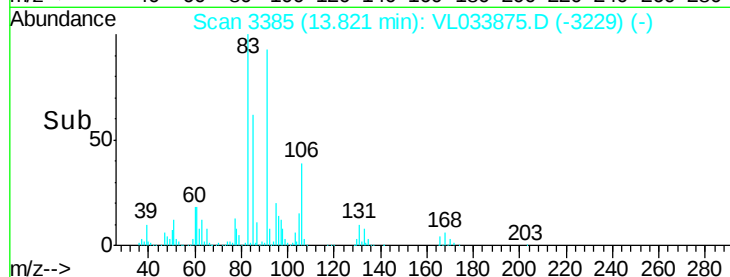
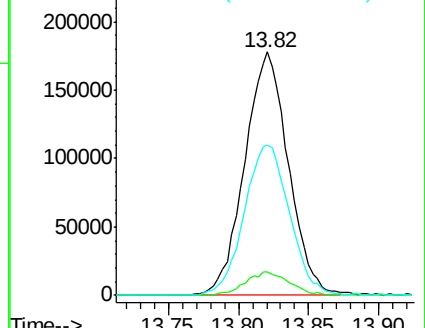
85 64.3 32.1 96.3



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: 1.953 ppbv

RT: 15.70 min Scan# 3971

Delta R.T. -0.00 min

Lab File: VL033875.D

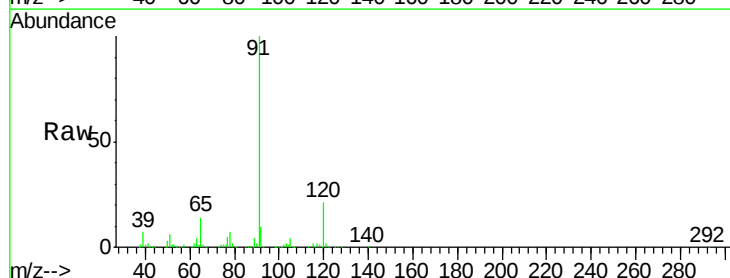
Acq: 7 Jun 2019 2:44

Tgt Ion:120 Resp: 179648

Ion Ratio Lower Upper

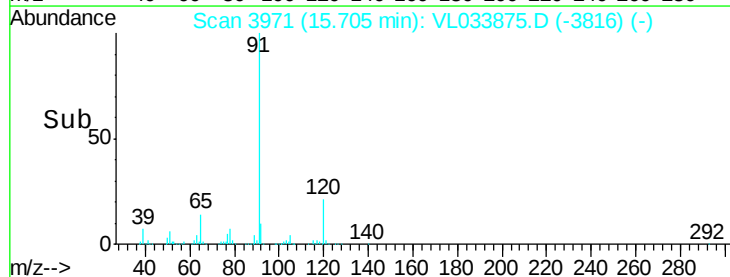
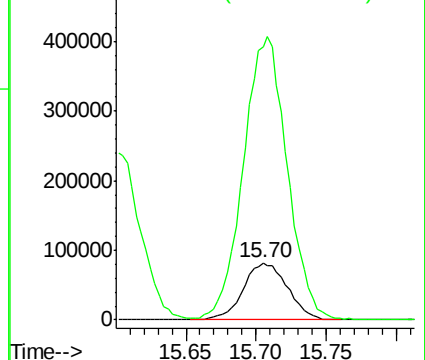
120 100

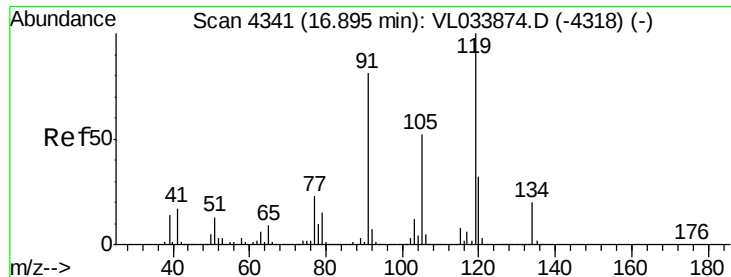
91 493.3 387.0 580.6



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 2.006 ppbv

RT: 16.89 min Scan# 4340

Delta R.T. -0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

Instrument :

MSVOA_L

ClientSampleId :

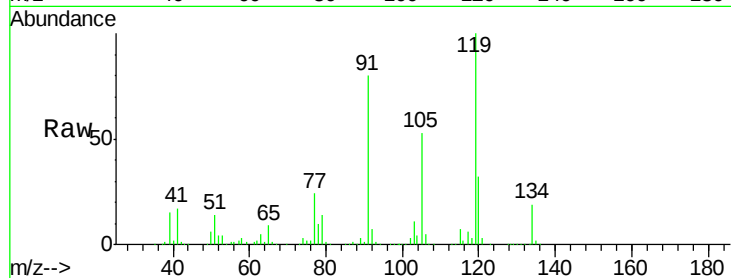
Tot Ion: 119 Resp: 653088

Ion Ratio Lower Upper

119 100

91 87.4 66.6 100.0

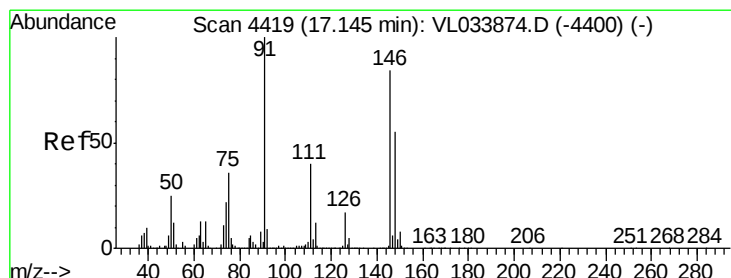
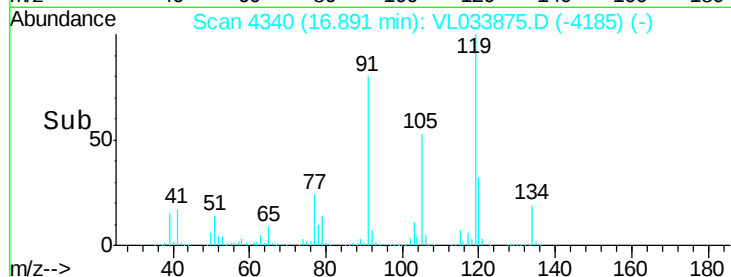
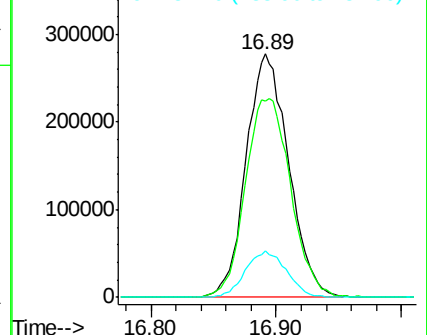
134 18.5 15.5 23.3



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 1.814 ppbv

RT: 17.14 min Scan# 4418

Delta R.T. -0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

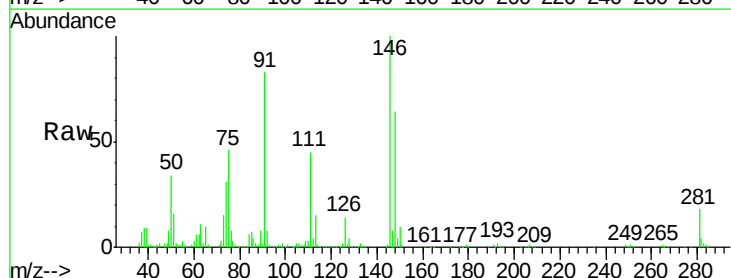
Tgt Ion: 91 Resp: 281851

Ion Ratio Lower Upper

91 100

126 17.1 13.8 20.6

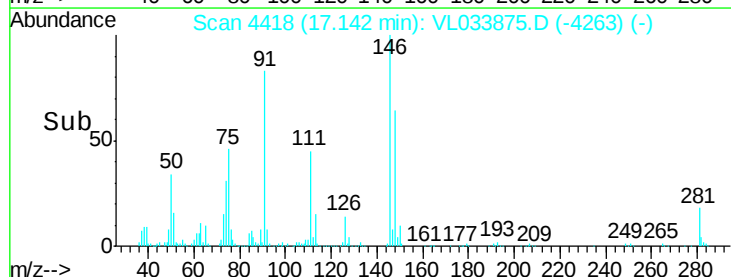
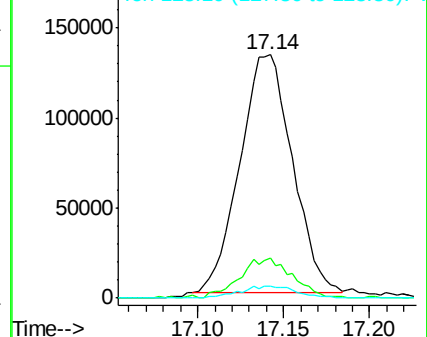
128 5.5 4.4 6.6

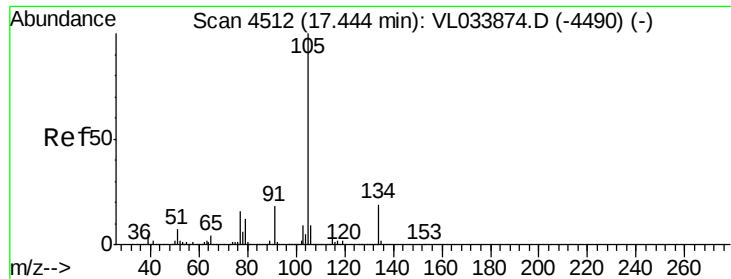


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 1.999 ppbv

RT: 17.44 min Scan# 4512

Delta R.T. -0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

Instrument :

MSVOA_L

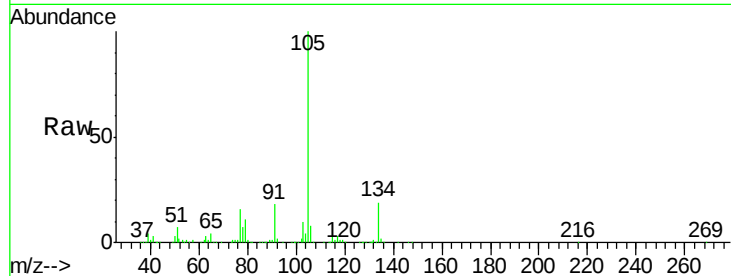
ClientSampleId :

Tot Ion:105 Resp: 912040

Ion Ratio Lower Upper

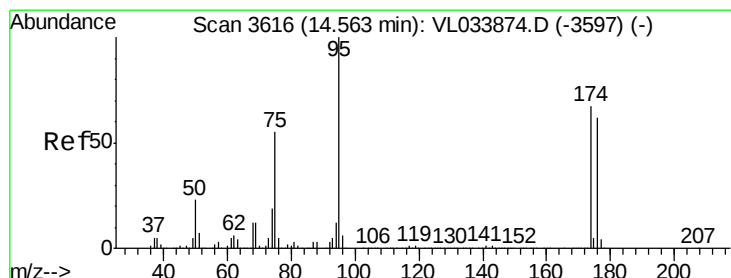
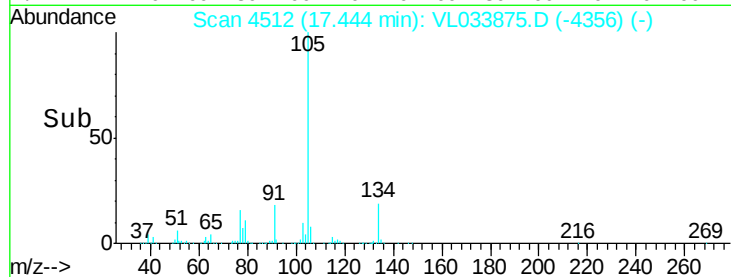
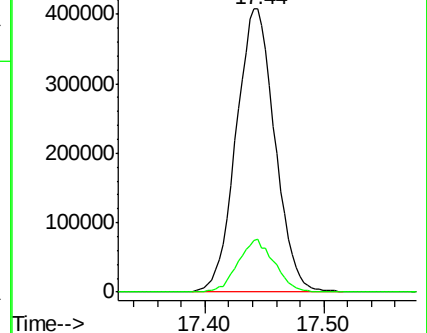
105 100

134 17.8 14.6 22.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.177 ppbv

RT: 14.56 min Scan# 3616

Delta R.T. -0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

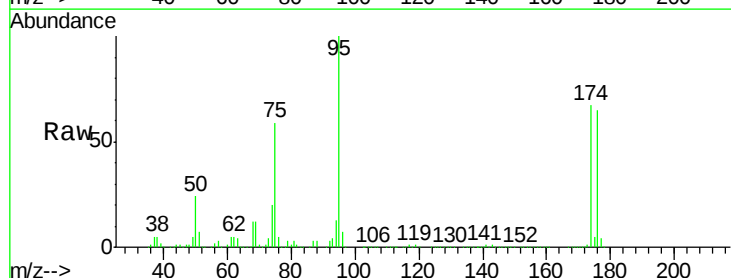
Tgt Ion: 95 Resp: 1875414

Ion Ratio Lower Upper

95 100

174 67.0 54.0 81.0

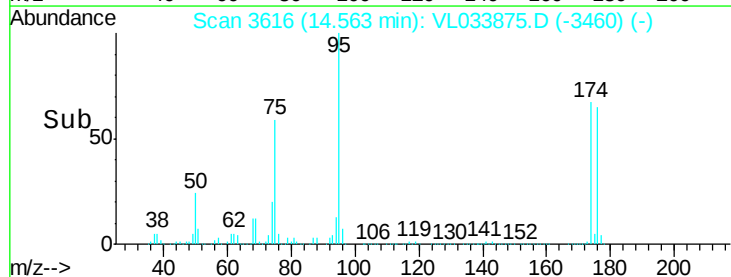
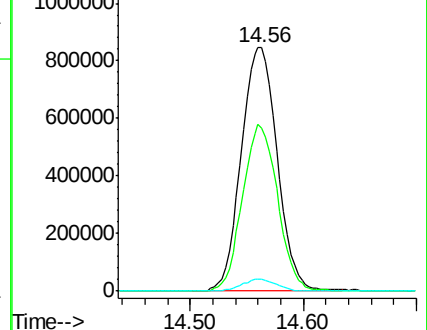
175 4.8 3.8 5.8

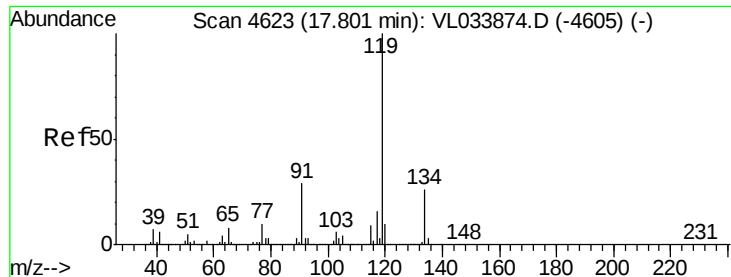


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

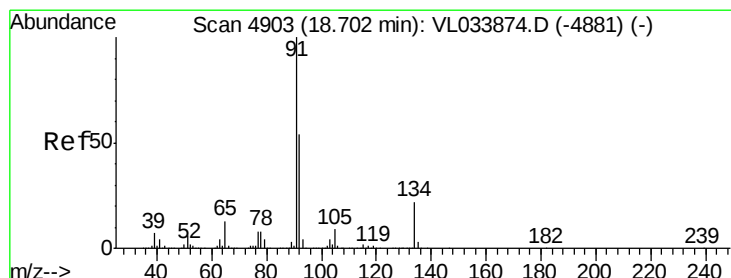
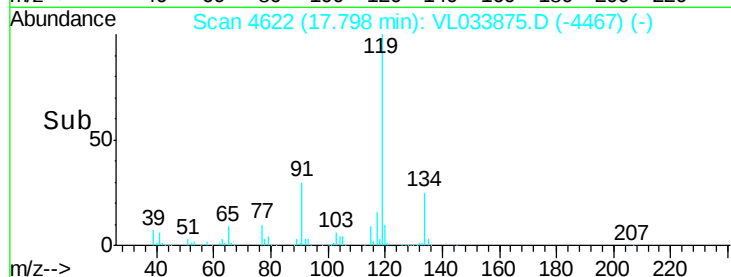
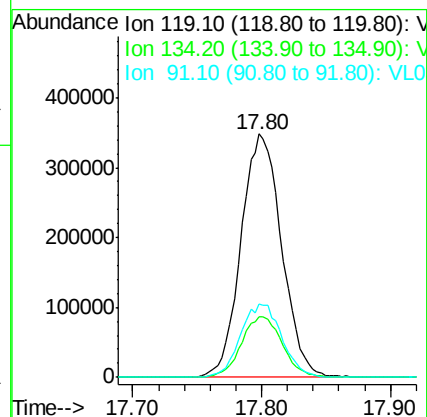
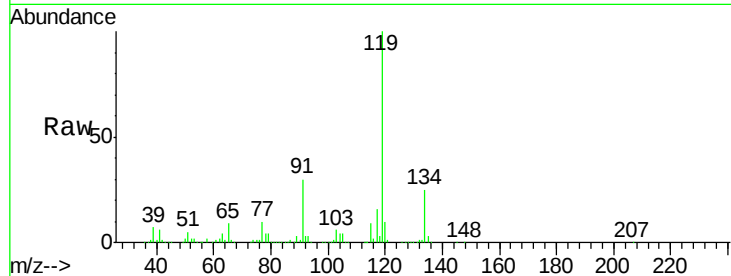




#69
 p-Isopropyltoluene
 Concen: 2.021 ppbv
 RT: 17.80 min Scan# 4622
 Delta R.T. -0.00 min
 Lab File: VL033875.D
 Acq: 7 Jun 2019 2:44

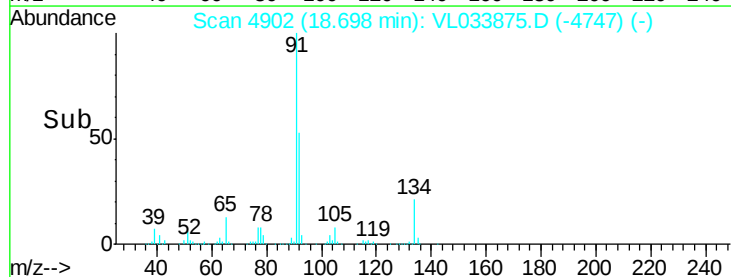
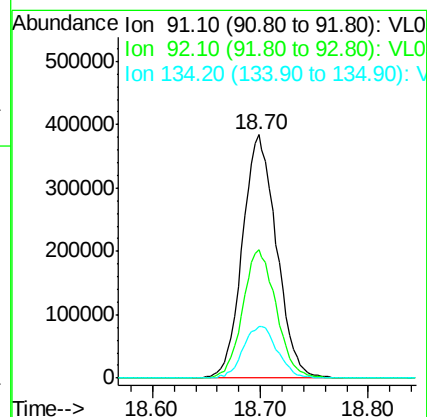
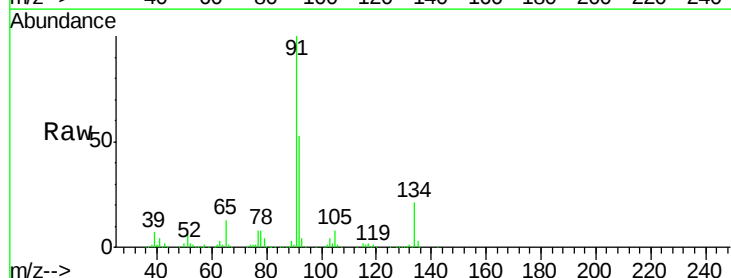
Instrument :
 MSVOA_L
 ClientSampleId :

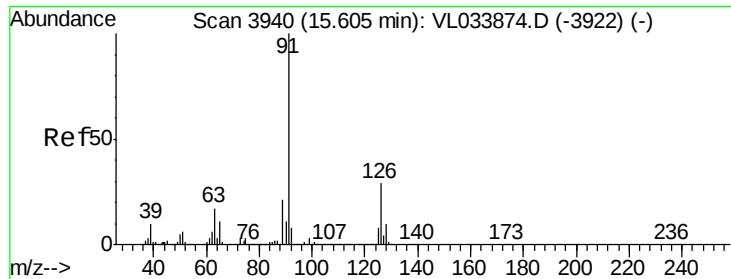
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.0	20.3	30.5
91	30.5	23.8	35.6



#70
 n-Butylbenzene
 Concen: 2.076 ppbv
 RT: 18.70 min Scan# 4902
 Delta R.T. -0.00 min
 Lab File: VL033875.D
 Acq: 7 Jun 2019 2:44

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.0	42.5	63.7
134	21.5	17.8	26.6





#71

2-Chlorotoluene

Concen: 1.981 ppbv

RT: 15.60 min Scan# 3938

Delta R.T. -0.01 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

Instrument :

MSVOA_L

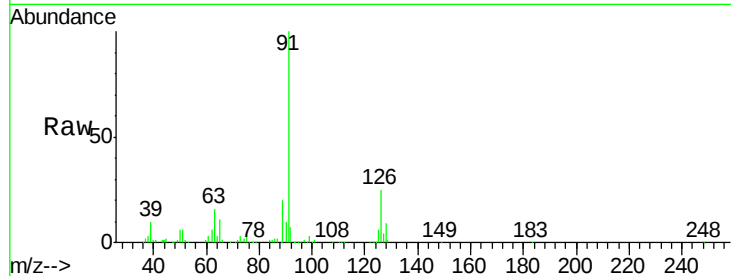
ClientSampleId :

Tot Ion: 91 Resp: 523198

Ion Ratio Lower Upper

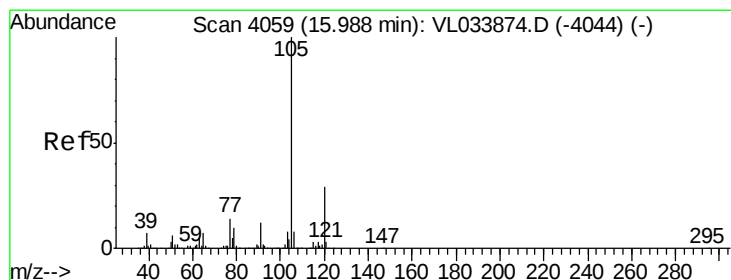
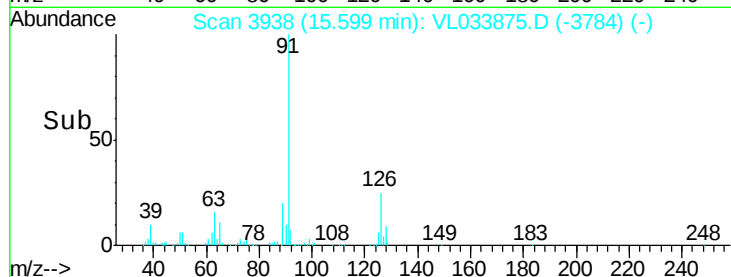
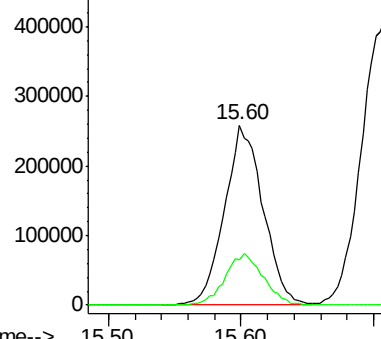
91 100

126 28.5 12.0 48.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 1.962 ppbv

RT: 15.98 min Scan# 4057

Delta R.T. -0.01 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

Tgt Ion: 105 Resp: 593749

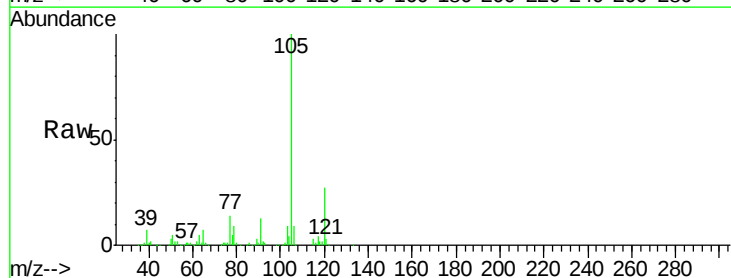
Ion Ratio Lower Upper

105 100

120 28.9 23.5 35.3

91 15.2 10.4 15.6

77 14.5 11.7 17.5

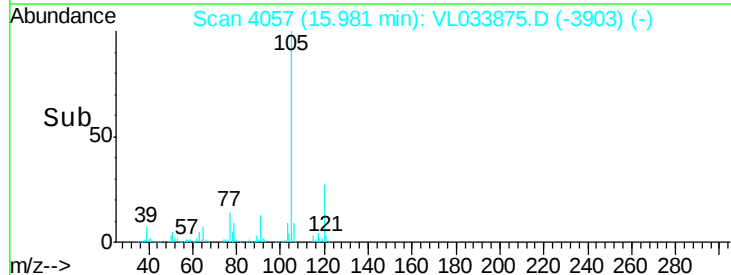
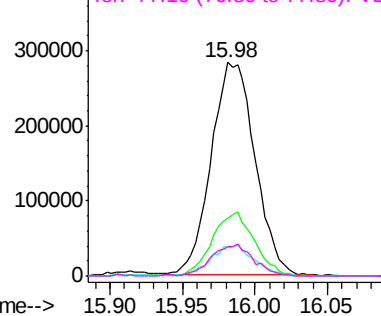


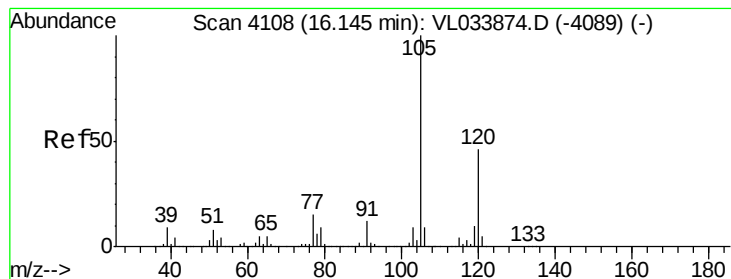
Abundance Ion 105.10 (104.80 to 105.80): V

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: 1.958 ppbv

RT: 16.14 min Scan# 4107

Delta R.T. -0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

Instrument :

MSVOA_L

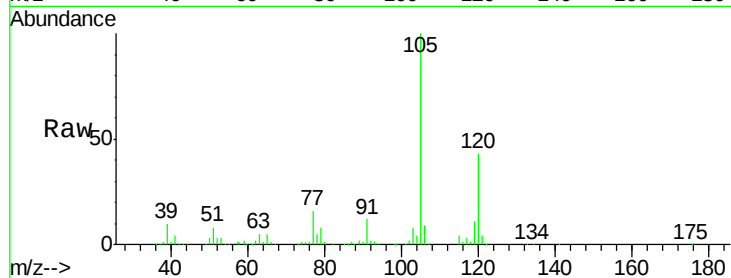
ClientSampleId :

Tot Ion:105 Resp: 579449

Ion Ratio Lower Upper

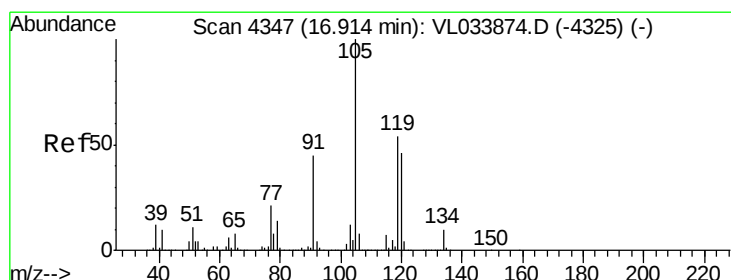
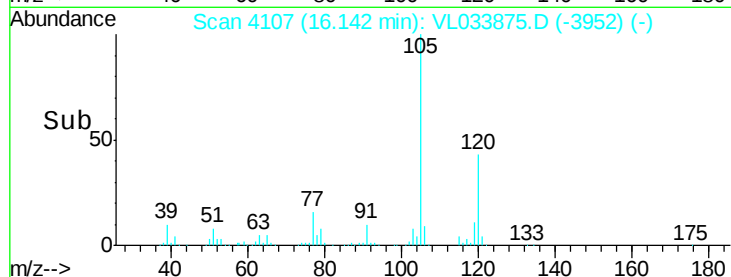
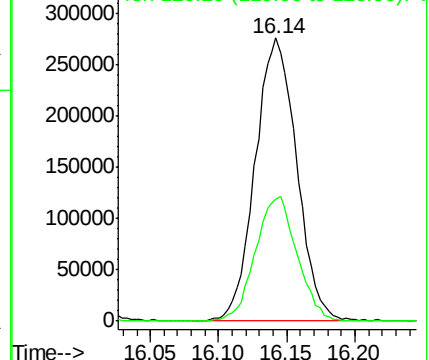
105 100

120 43.1 37.1 55.7



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: 2.070 ppbv

RT: 16.91 min Scan# 4345

Delta R.T. -0.01 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

Tgt Ion:105 Resp: 668310

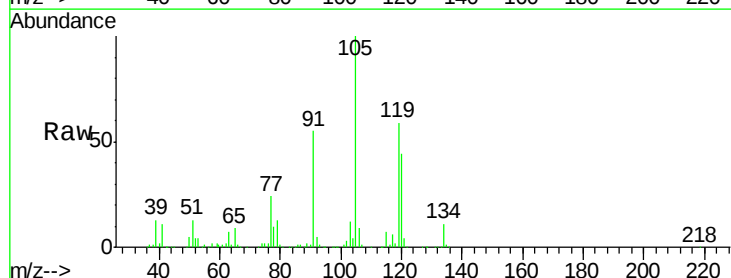
Ion Ratio Lower Upper

105 100

120 43.8 36.7 55.1

91 54.1 35.8 53.8#

77 24.0 16.9 25.3

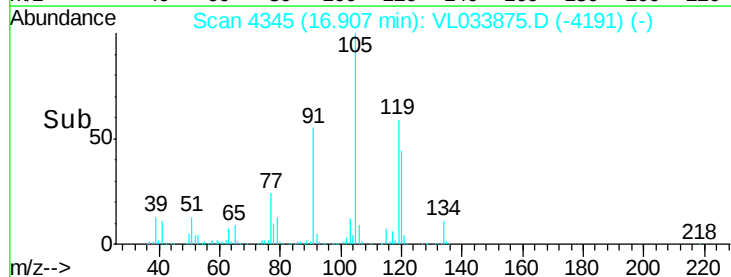
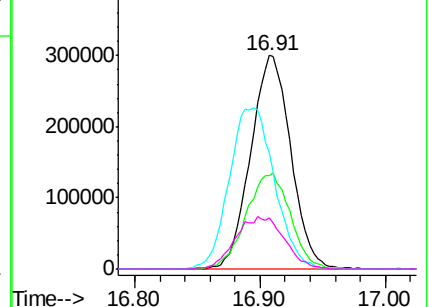


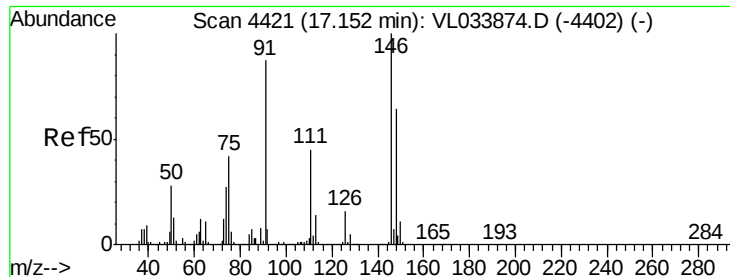
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 2.030 ppbv

RT: 17.15 min Scan# 4419

Delta R.T. -0.01 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

Instrument :

MSVOA_L

ClientSampled :

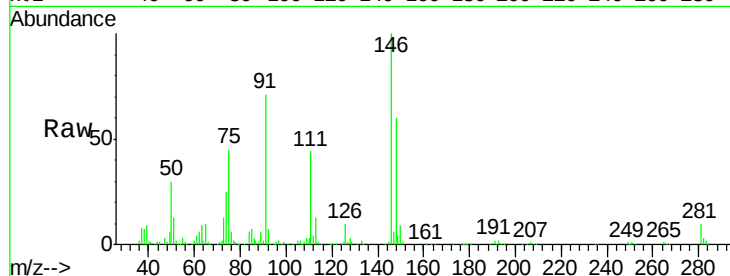
Tot Ion:146 Resp: 402348

Ion Ratio Lower Upper

146 100

111 46.4 22.8 68.3

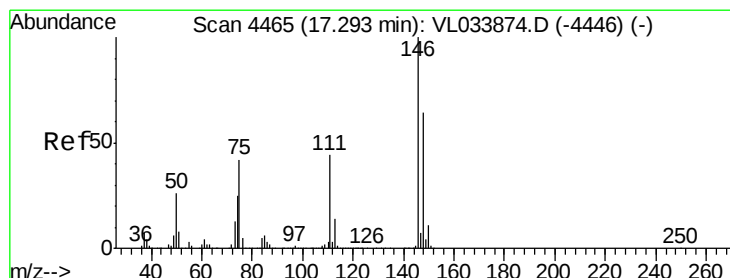
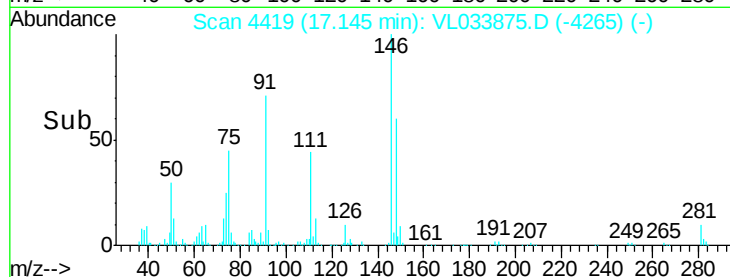
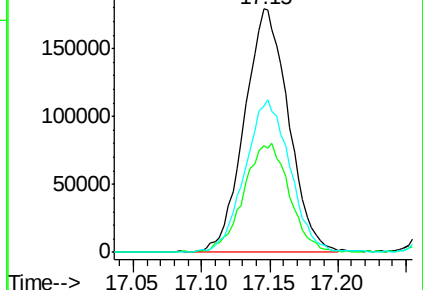
148 64.0 32.2 96.6



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: 1.999 ppbv

RT: 17.29 min Scan# 4464

Delta R.T. -0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

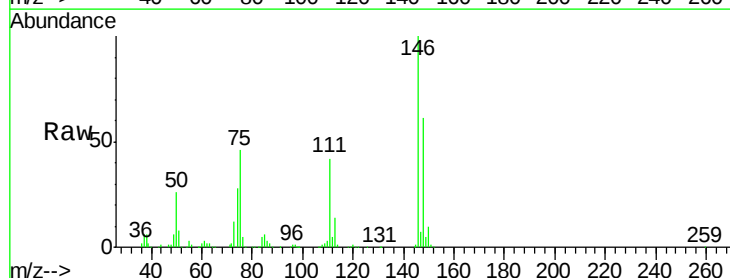
Tgt Ion:146 Resp: 375827

Ion Ratio Lower Upper

146 100

111 45.4 22.1 66.5

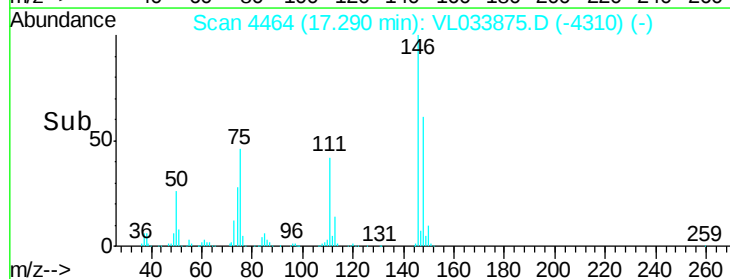
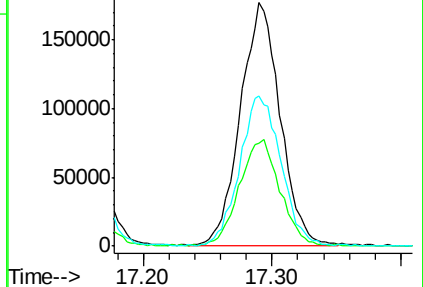
148 65.4 32.4 97.0

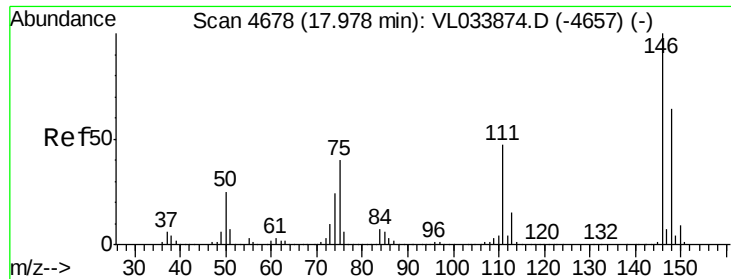


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

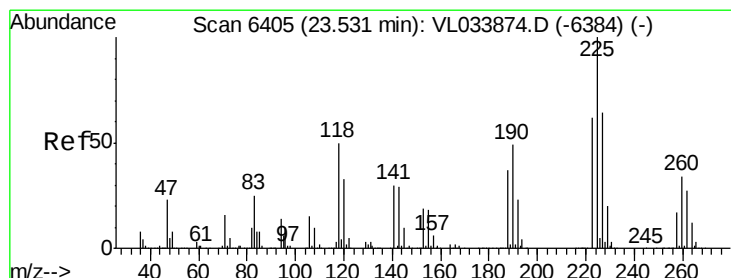
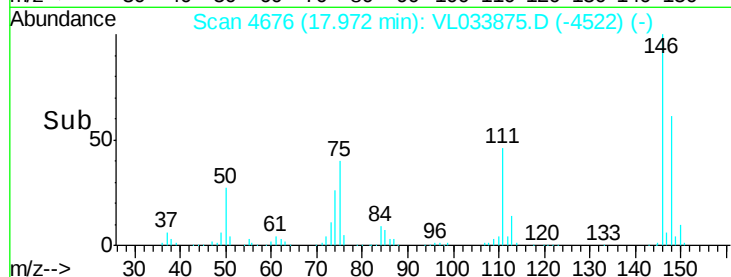
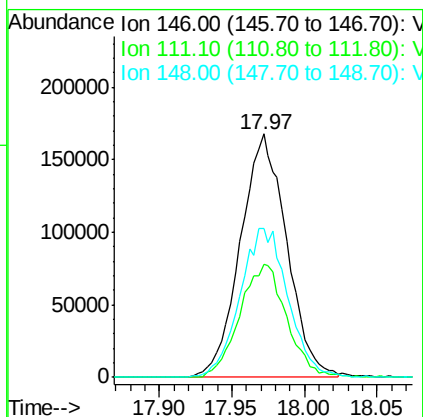
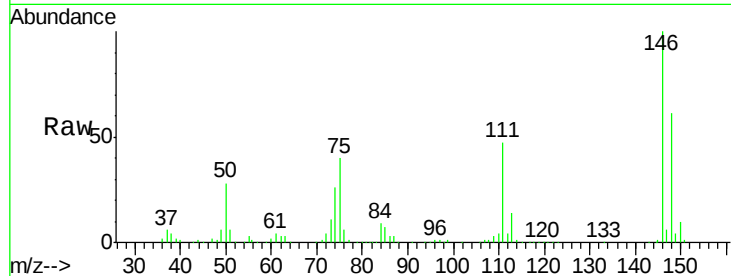




#77
 1,2-Dichlorobenzene
 Concen: 1.983 ppbv
 RT: 17.97 min Scan# 4676
 Delta R.T. -0.01 min
 Lab File: VL033875.D
 Acq: 7 Jun 2019 2:44

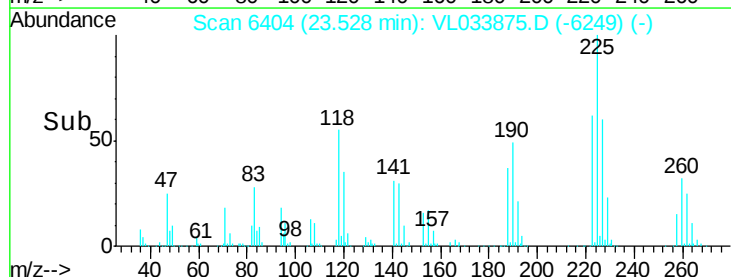
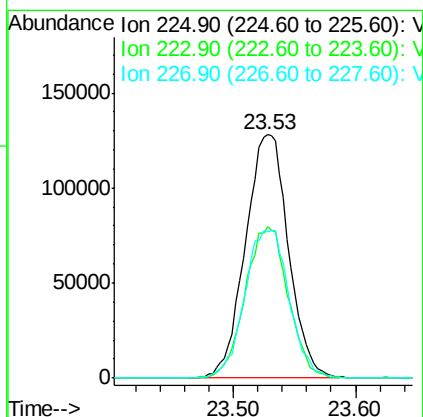
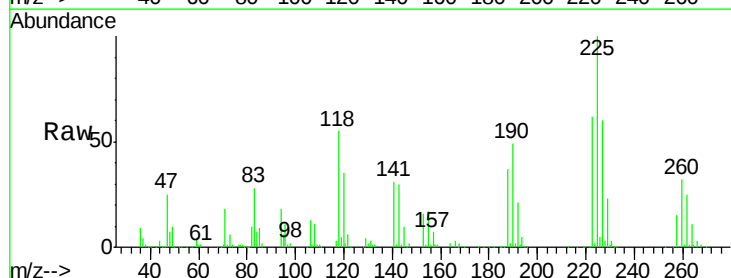
Instrument :
 MSVOA_L
 ClientSampled :

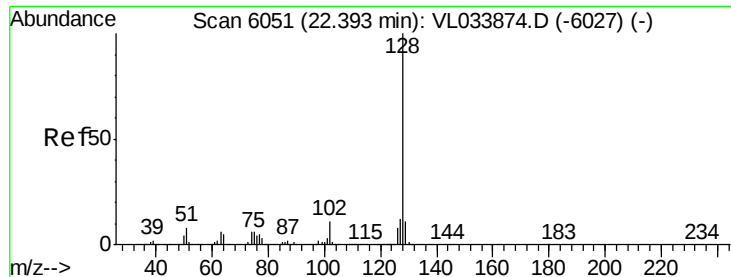
Tot Ion:146 Resp: 369579
 Ion Ratio Lower Upper
 146 100
 111 47.7 23.4 70.0
 148 64.2 31.8 95.4



#78
 Hexachloro-1,3-Butadiene
 Concen: 2.234 ppbv
 RT: 23.53 min Scan# 6404
 Delta R.T. -0.00 min
 Lab File: VL033875.D
 Acq: 7 Jun 2019 2:44

Tgt Ion:225 Resp: 312021
 Ion Ratio Lower Upper
 225 100
 223 62.0 50.8 76.2
 227 62.9 51.8 77.6





#79

Naphthalene

Concen: 1.947 ppbv

RT: 22.39 min Scan# 6051

Delta R.T. -0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

Instrument :

MSVOA_L

ClientSampleId :

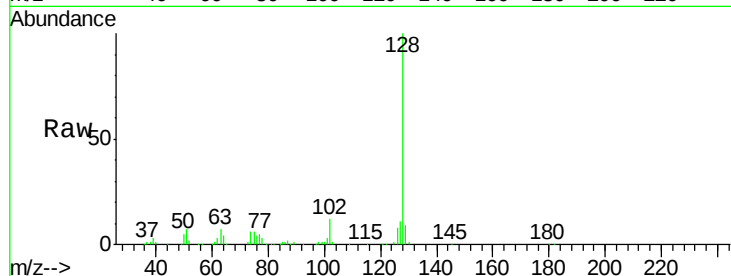
Tot Ion:128 Resp: 564041

Ion Ratio Lower Upper

128 100

127 10.6 9.7 14.5

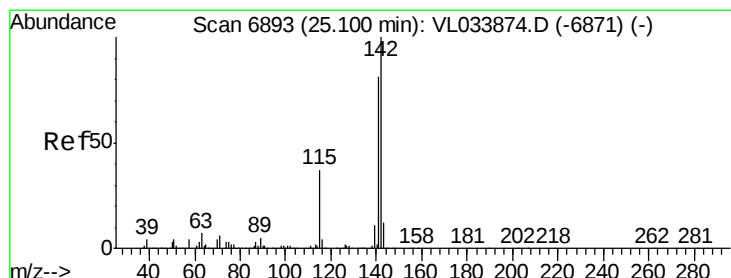
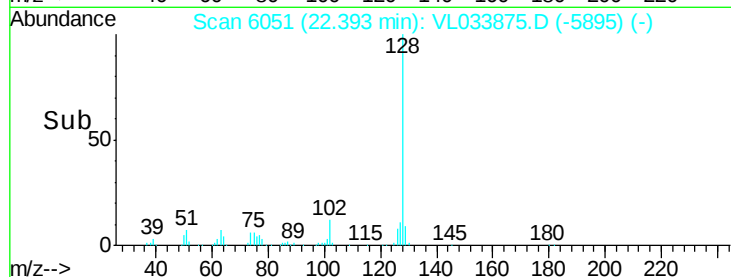
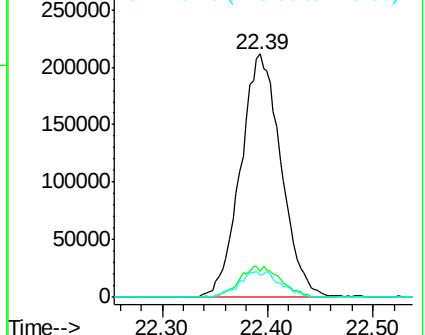
129 9.3 8.6 12.8



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: 1.961 ppbv

RT: 25.10 min Scan# 6894

Delta R.T. 0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

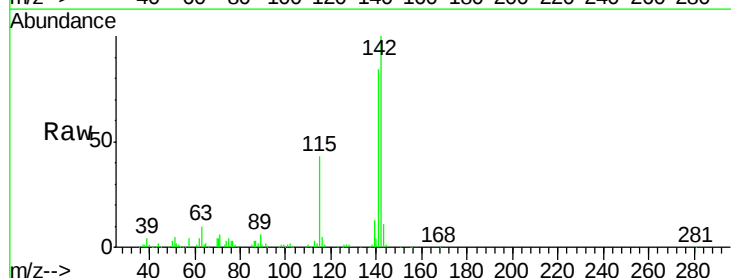
Tgt Ion:142 Resp: 204522

Ion Ratio Lower Upper

142 100

141 84.3 65.7 98.5

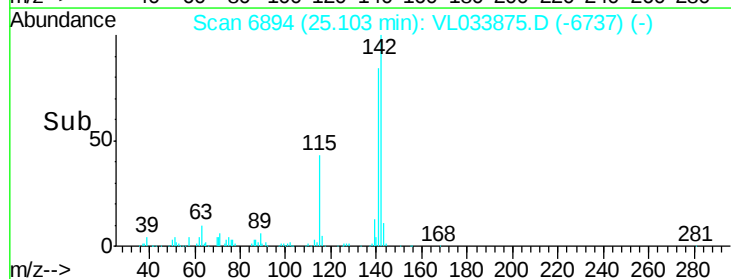
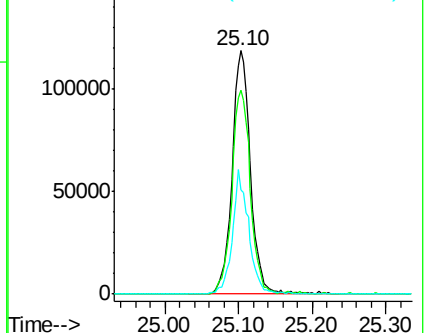
115 45.1 28.9 43.3#

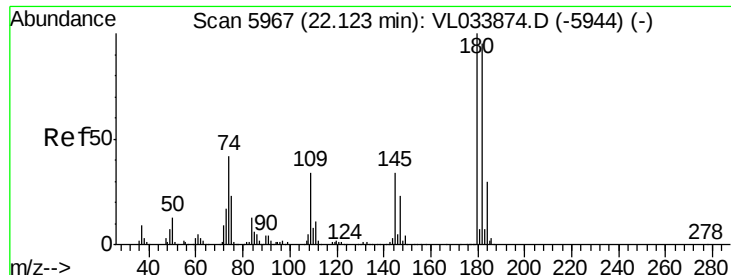


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 1.982 ppbv

RT: 22.12 min Scan# 5966

Delta R.T. -0.00 min

Lab File: VL033875.D

Acq: 7 Jun 2019 2:44

Instrument :

MSVOA_L

ClientSampleId :

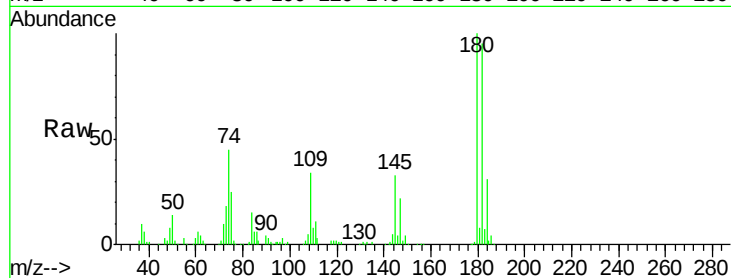
Tot Ion:180 Resp: 342953

Ion Ratio Lower Upper

180 100

182 96.1 76.9 115.3

184 30.7 24.5 36.7



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

