

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071719\
 Data File : VL034037.D
 Acq On : 17 Jul 2019 17:54
 Operator : SY/AP
 Sample : VL0717ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 18 04:38:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 02 19:31:31 2019
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	1164722	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.25	114	3081533	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.19	117	3741456	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.53	95	2387790	7.48	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	74.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	1942878	8.083 ppbv	99
3) Chlorodifluoromethane	2.99	51	1278882	8.892 ppbv	100
4) Chloromethane	3.15	50	756502	9.147 ppbv	98
5) Vinyl Chloride	3.27	62	808887	8.698 ppbv	89
6) Bromomethane	3.49	94	520187	9.486 ppbv	98
7) Chloroethane	3.57	64	315742	9.500 ppbv	90
8) Dichlorotetrafluoroethane	3.20	85	2083247	8.890 ppbv	99
9) Propene	3.01	41	505007	9.545 ppbv	98
10) Heptane	8.21	43	1395722	10.535 ppbv	100
11) Trichlorofluoromethane	3.98	101	2220311	8.215 ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.52	101	1592768	8.326 ppbv	98
13) Ethanol	3.63	45	123556	7.517 ppbv	100
14) Bromoethene	3.76	108	681984	9.546 ppbv	99
15) Acetone	3.88	43	1530745	7.817 ppbv	98
16) 1,3-Butadiene	3.34	39	700861	10.136 ppbv	98
17) tert-Butyl alcohol	4.33	59	1411818	9.043 ppbv	98
18) 1,1-Dichloroethene	4.32	96	724807	8.507 ppbv	95
19) Isopropyl Alcohol	4.00	45	1078801	8.207 ppbv	100
20) Methylene Chloride	4.38	84	622993	7.294 ppbv	98
21) Allyl Chloride	4.45	41	1099184	9.002 ppbv	99
22) trans-1,2-Dichloroethene	4.93	96	749600	9.233 ppbv	96
23) Vinyl Acetate	5.12	43	2074049	10.611 ppbv	98
24) 1,1-Dichloroethane	5.06	63	1636941	9.450 ppbv	99
25) Ethyl Acetate	5.73	43	2643521	9.870 ppbv	100
26) Hexane	5.74	57	1199439	9.786 ppbv	100
27) Carbon Disulfide	4.59	76	1933632	9.280 ppbv	100
28) Methyl tert-Butyl Ether	5.08	73	2137357	10.297 ppbv	100
29) Chloroform	5.81	83	2069286	8.984 ppbv	100
30) Cyclohexane	7.20	84	626883	6.623 ppbv	# 1
31) cis-1,2-Dichloroethene	5.61	61	1249148	10.549 ppbv	97
32) 1,1,1-Trichloroethane	6.58	97	2083998	8.927 ppbv	98
34) 2-Butanone	5.30	43	1635579	10.029 ppbv	99
35) Carbon Tetrachloride	7.10	117	2198923	9.014 ppbv	97
36) Benzene	6.97	78	2486904	10.314 ppbv	97
37) 1,2-Dichloroethane	6.38	62	1581400	8.903 ppbv	99
38) Trichloroethene	7.92	130	1064604	9.923 ppbv	94
39) 1,2-Dichloropropane	7.70	63	908168	10.129 ppbv	95
40) 1,4-Dioxane	7.91	88	149560	3.613 ppbv	# 1
41) Tetrahydrofuran	6.11	42	856420	10.708 ppbv	100
42) Bromodichloromethane	7.88	83	2277255	9.555 ppbv	99
43) Methyl Methacrylate	8.10	69	1013069	11.074 ppbv	99

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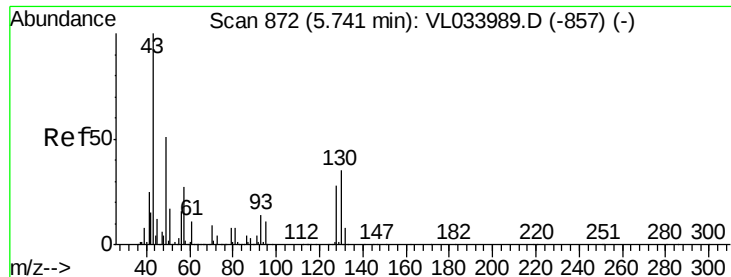
Instrument :
 MSVOA_L
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Quant Time: Jul 18 04:38:45 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.95	57	4157381	9.989	ppbv	100
45) t-1,3-Dichloropropene	9.37	75	1389599	11.616	ppbv	97
46) cis-1,3-Dichloropropene	8.79	75	1546458	11.162	ppbv	96
47) 1,1,2-Trichloroethane	9.57	97	1059014	9.394	ppbv	97
48) Dibromochloromethane	10.41	129	1906290	8.862	ppbv	98
49) Bromoform	13.15	173	1704235	9.274	ppbv	99
50) 4-Methyl-2-Pentanone	8.83	43	2458478	10.159	ppbv	99
51) 2-Hexanone	10.23	43	1992355	10.208	ppbv #	100
52) Tetrachloroethene	11.33	164	994335	9.581	ppbv	99
53) Toluene	9.90	91	3004262	10.885	ppbv	100
54) 1,2-Dibromoethane	10.72	107	1637376	9.842	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.24	131	1279590	7.652	ppbv	98
57) Chlorobenzene	12.25	112	2287620	7.680	ppbv	98
58) Ethyl Benzene	12.82	91	4000094	8.891	ppbv	99
59) m/p-Xylene	13.10	91	939314	2.306	ppbv #	31
60) o-Xylene	13.80	91	3300765	8.099	ppbv	98
61) Styrene	13.64	104	2420673	8.975	ppbv	99
62) Isopropylbenzene	14.78	105	4376510	6.986	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.79	83	2213964	7.018	ppbv	99
64) n-propylbenzene	15.67	120	1134374	6.982	ppbv	99
65) tert-Butylbenzene	16.86	119	3916925	7.352	ppbv	100
66) Benzyl Chloride	17.11	91	2185300	8.017	ppbv	100
67) sec-Butylbenzene	17.41	105	5568445	7.446	ppbv	100
69) p-Isopropyltoluene	17.77	119	4657715	7.554	ppbv	100
70) n-Butylbenzene	18.67	91	4902889	7.570	ppbv	100
71) 2-Chlorotoluene	15.57	91	3317213	7.235	ppbv	98
72) 4-Ethyltoluene	15.96	105	3878411	7.410	ppbv	98
73) 1,3,5-Trimethylbenzene	16.11	105	3715662	7.630	ppbv	100
74) 1,2,4-Trimethylbenzene	16.88	105	3863295	7.163	ppbv	98
75) 1,3-Dichlorobenzene	17.12	146	2297165	6.705	ppbv	99
76) 1,4-Dichlorobenzene	17.26	146	2293559	7.108	ppbv	99
77) 1,2-Dichlorobenzene	17.94	146	2220340	6.999	ppbv	99
78) Hexachloro-1,3-Butadiene	23.50	225	1906207	7.061	ppbv	98
79) Naphthalene	22.35	128	4198683	9.259	ppbv	99
80) Naphthalene, 2-methyl-	25.07	142	1014083	6.145	ppbv	99
81) 1,2,4-Trichlorobenzene	22.08	180	2403894	8.254	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 868

Delta R.T. -0.01 min

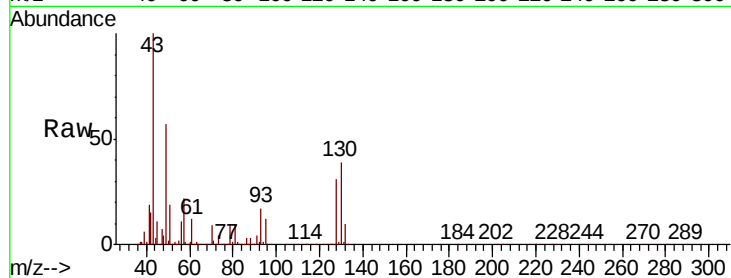
Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 49 Resp: 1164722

Ion	Ratio	Lower	Upper
49	100		
128	54.7	27.9	83.6
130	70.3	35.8	107.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

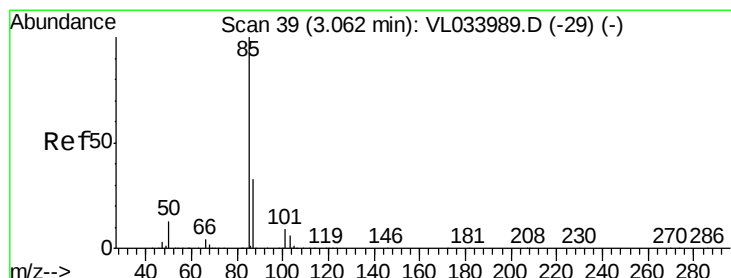
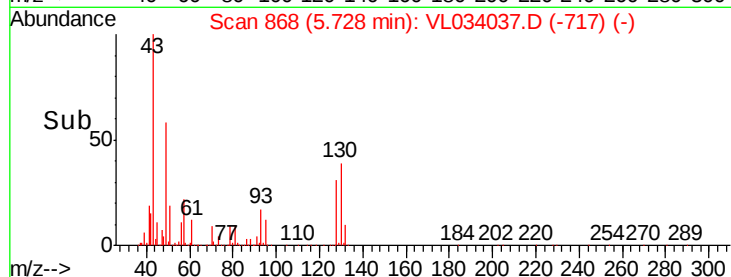
Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

5.73

Time-->

5.65 5.70 5.75 5.80



#2

Dichlorodifluoromethane

Concen: 8.083 ppbv

RT: 3.06 min Scan# 37

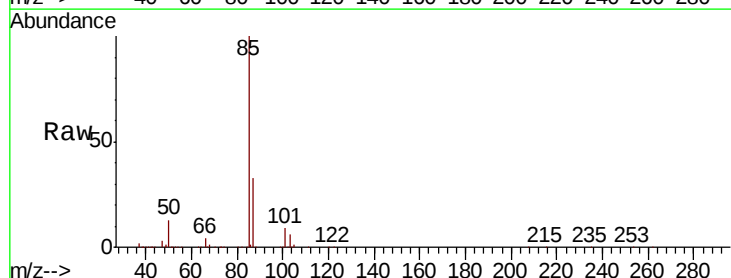
Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Tgt Ion: 85 Resp: 1942878

Ion	Ratio	Lower	Upper
85	100		
87	32.9	26.0	39.0



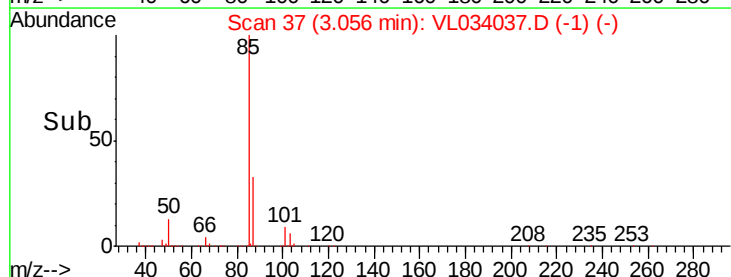
Abundance Ion 85.00 (84.70 to 85.70): VL0

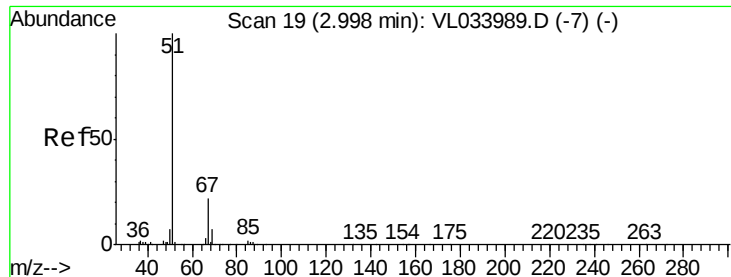
Ion 87.00 (86.70 to 87.70): VL0

3.06

Time-->

3.00 3.05 3.10

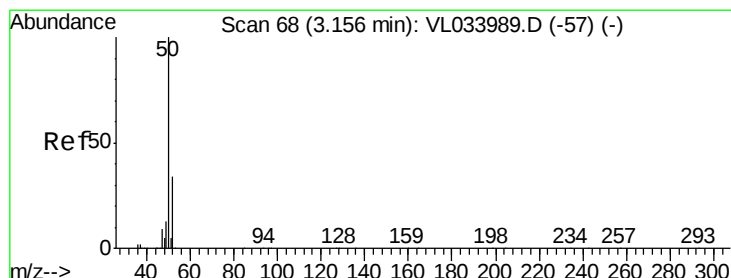
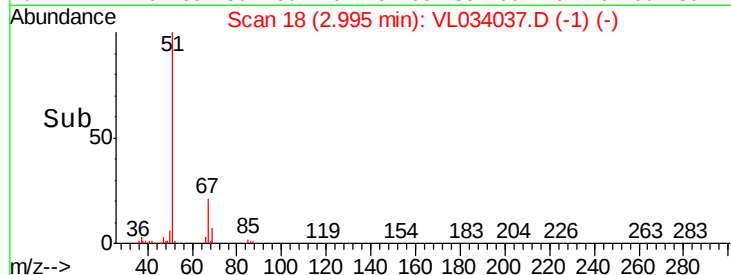
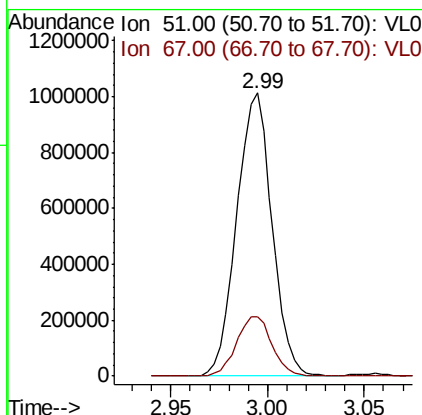
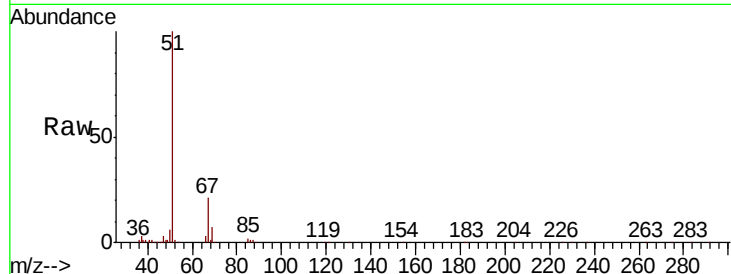




#3
 Chlorodifluoromethane
 Concen: 8.892 ppbv
 RT: 2.99 min Scan# 18
 Delta R.T. -0.00 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

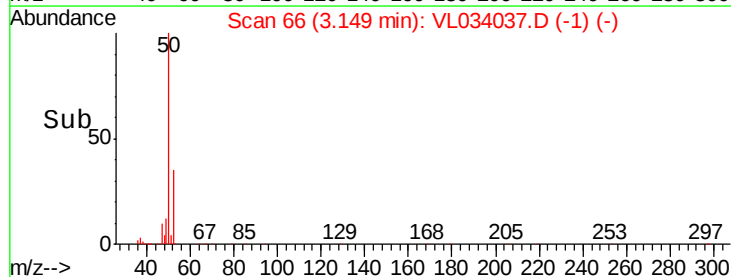
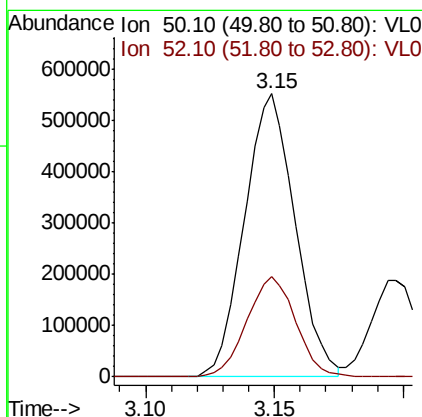
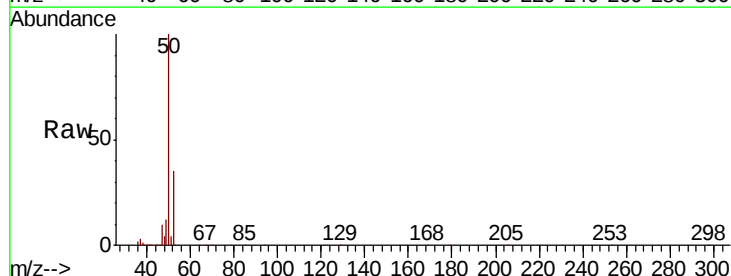
Instrument :
 MSVOA_L
 ClientSampleId :

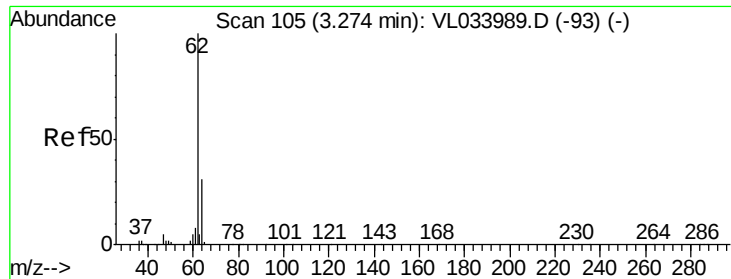
Tot Ion: 51 Resp: 1278882
 Ion Ratio Lower Upper
 51 100
 67 21.5 17.3 25.9



#4
 Chloromethane
 Concen: 9.147 ppbv
 RT: 3.15 min Scan# 66
 Delta R.T. -0.01 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

Tgt Ion: 50 Resp: 756502
 Ion Ratio Lower Upper
 50 100
 52 35.3 27.4 41.0





#5

Vinyl Chloride

Concen: 8.698 ppbv

RT: 3.27 min Scan# 103

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

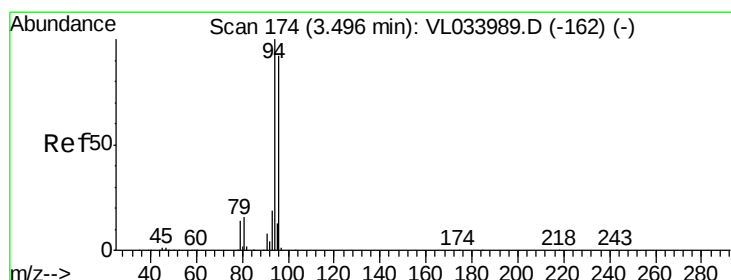
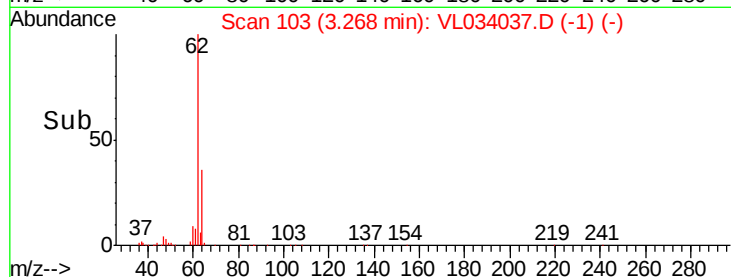
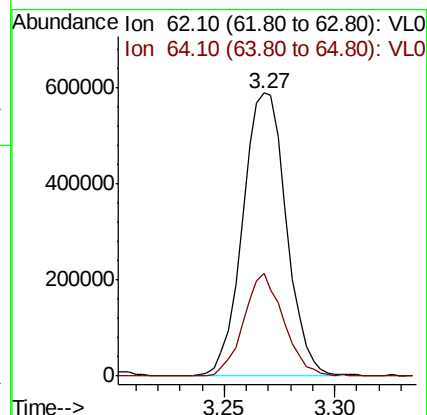
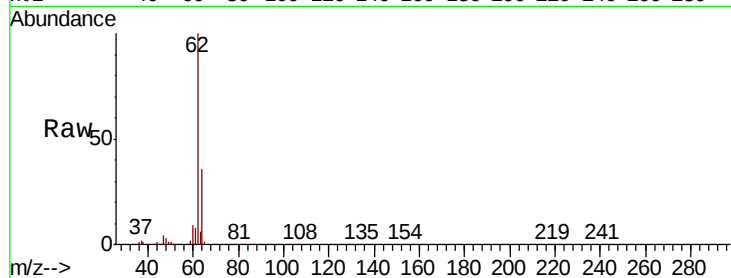
ClientSampleId :

Tot Ion: 62 Resp: 808887

Ion Ratio Lower Upper

62 100

64 36.4 24.4 36.6



#6

Bromomethane

Concen: 9.486 ppbv

RT: 3.49 min Scan# 172

Delta R.T. -0.01 min

Lab File: VL034037.D

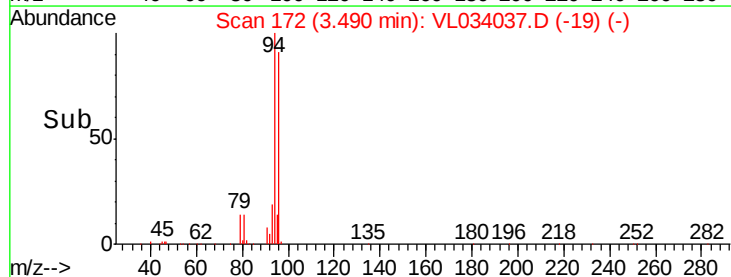
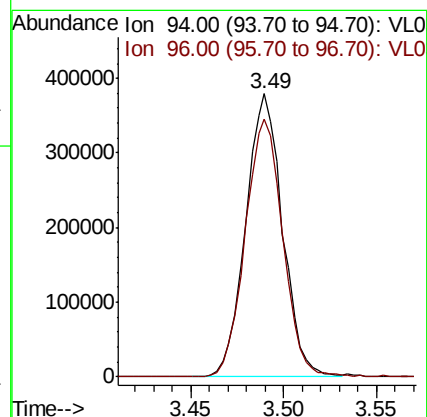
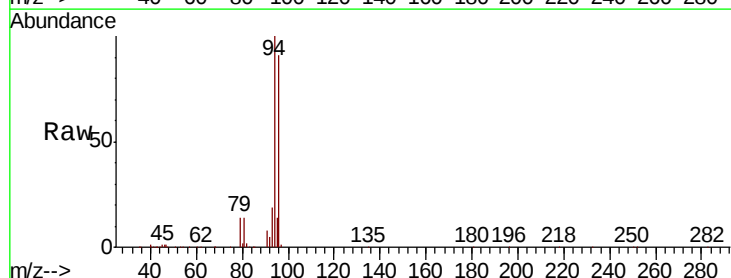
Acq: 17 Jul 2019 17:54

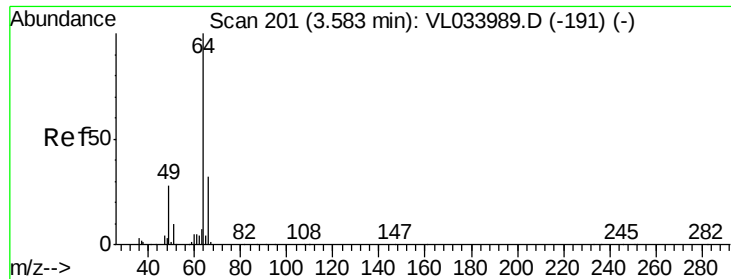
Tgt Ion: 94 Resp: 520187

Ion Ratio Lower Upper

94 100

96 90.8 73.8 110.8





#7

Chloroethane

Concen: 9.500 ppbv

RT: 3.57 min Scan# 198

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

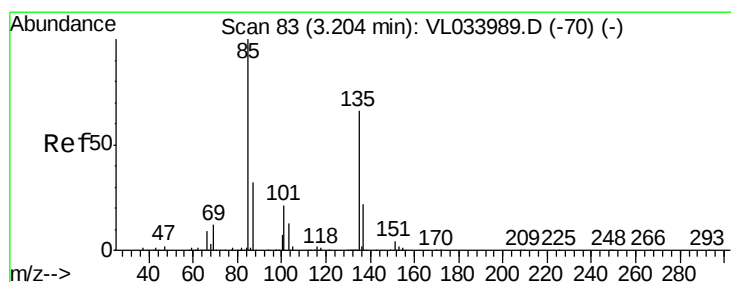
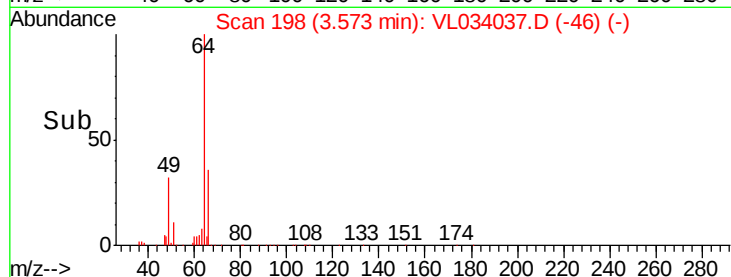
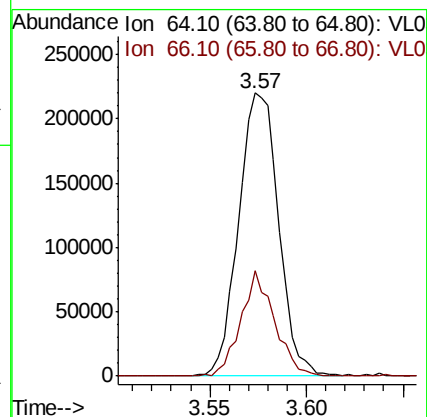
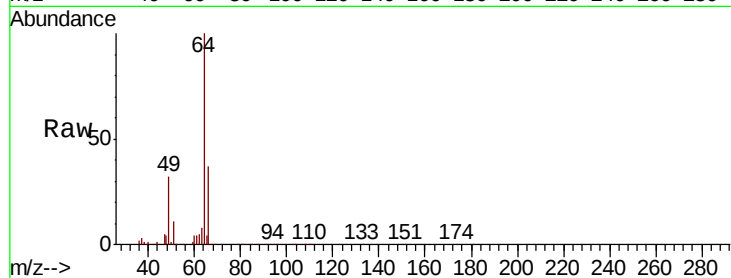
ClientSampleId :

Tot Ion: 64 Resp: 315742

Ion Ratio Lower Upper

64 100

66 37.1 25.3 37.9



#8

Dichlorotetrafluoroethane

Concen: 8.890 ppbv

RT: 3.20 min Scan# 81

Delta R.T. -0.01 min

Lab File: VL034037.D

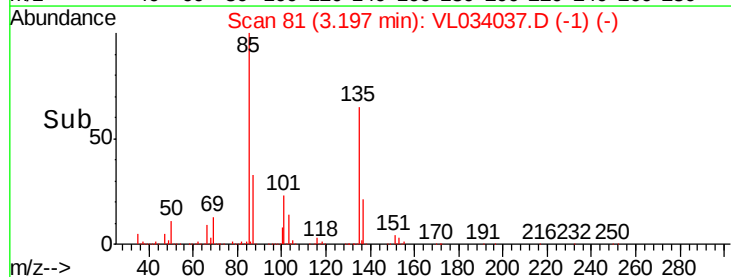
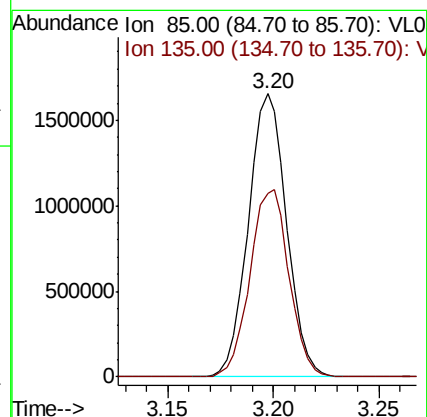
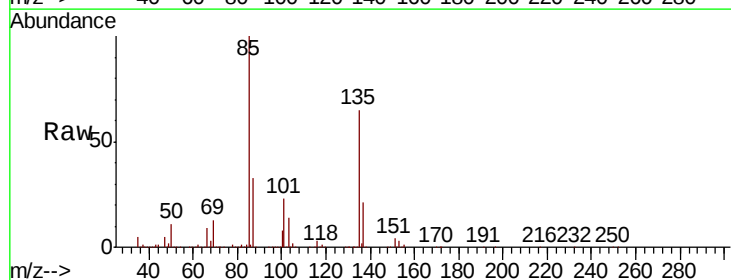
Acq: 17 Jul 2019 17:54

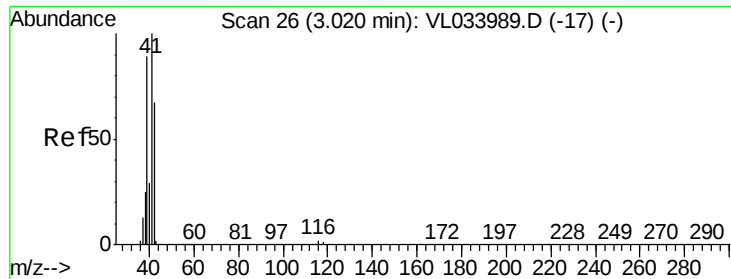
Tgt Ion: 85 Resp: 2083247

Ion Ratio Lower Upper

85 100

135 68.1 55.0 82.4





#9

Propene

Concen: 9.545 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

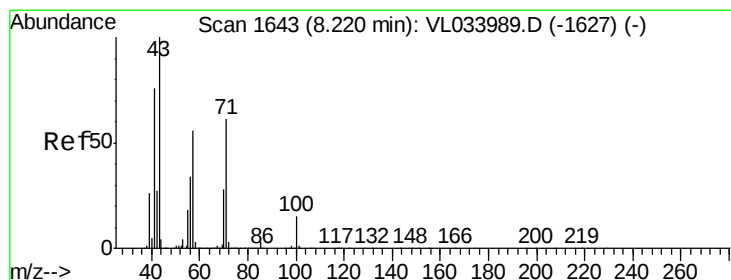
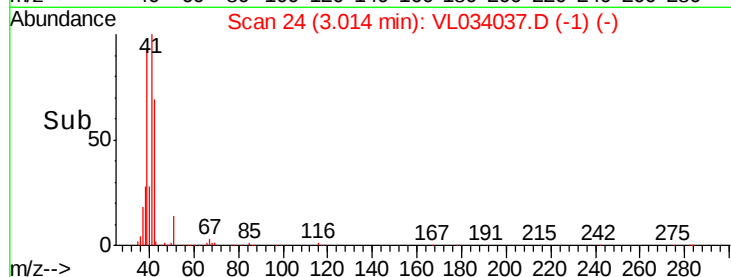
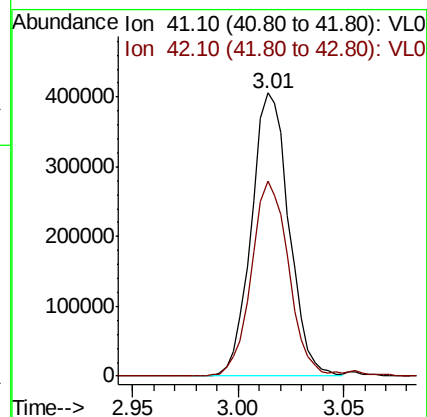
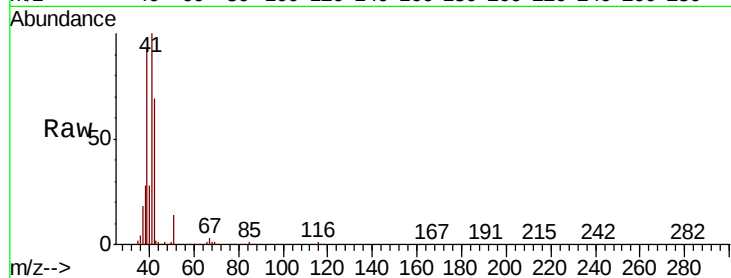
ClientSampleId :

Tot Ion: 41 Resp: 505007

Ion Ratio Lower Upper

41 100

42 69.7 57.1 85.7



#10

Heptane

Concen: 10.535 ppbv

RT: 8.21 min Scan# 1639

Delta R.T. -0.01 min

Lab File: VL034037.D

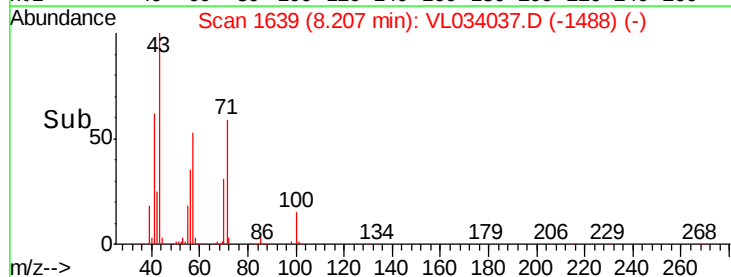
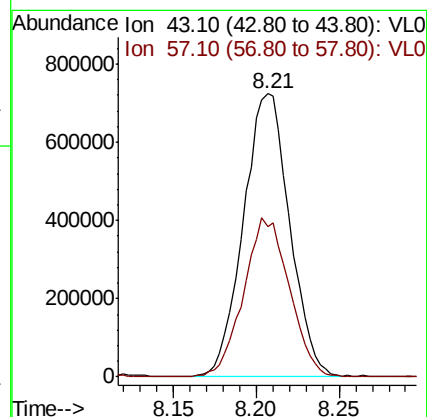
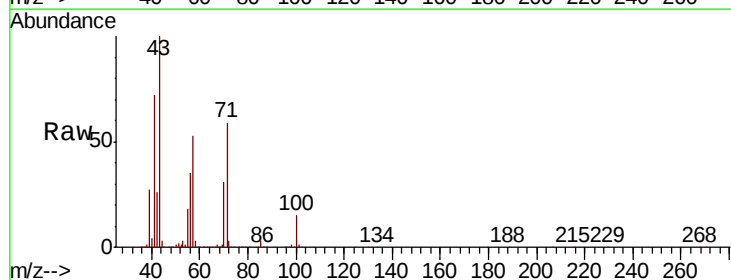
Acq: 17 Jul 2019 17:54

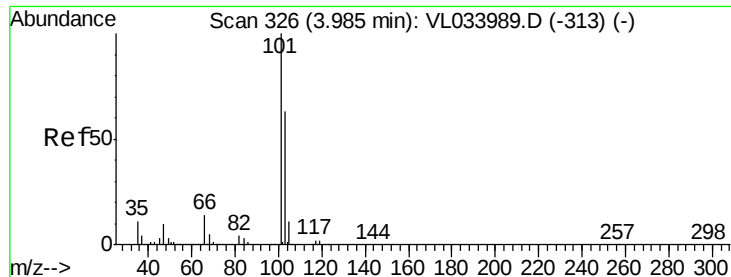
Tgt Ion: 43 Resp: 1395722

Ion Ratio Lower Upper

43 100

57 55.9 44.6 66.8





#11

Trichlorofluoromethane

Concen: 8.215 ppbv

RT: 3.98 min Scan# 324

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

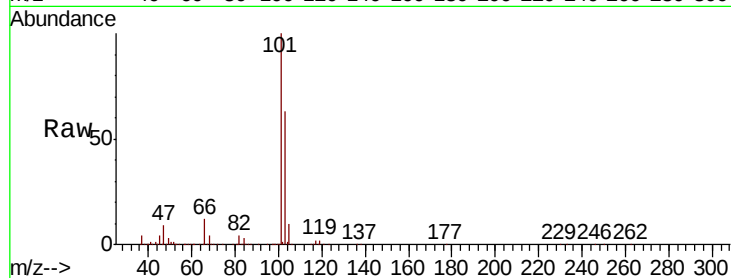
ClientSampleId :

Tot Ion:101 Resp: 2220311

Ion Ratio Lower Upper

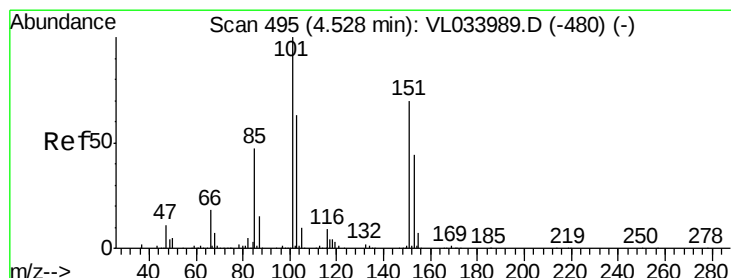
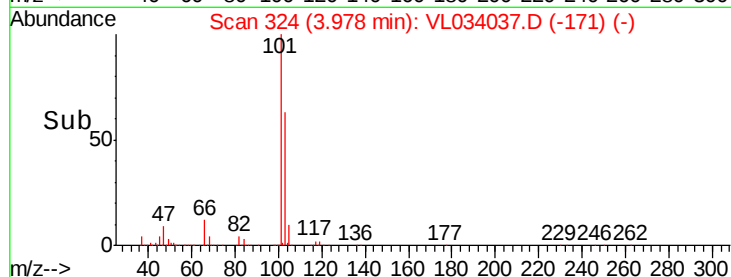
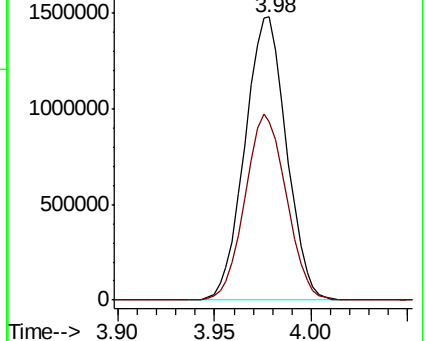
101 100

103 63.1 50.8 76.2



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: 8.326 ppbv

RT: 4.52 min Scan# 493

Delta R.T. -0.01 min

Lab File: VL034037.D

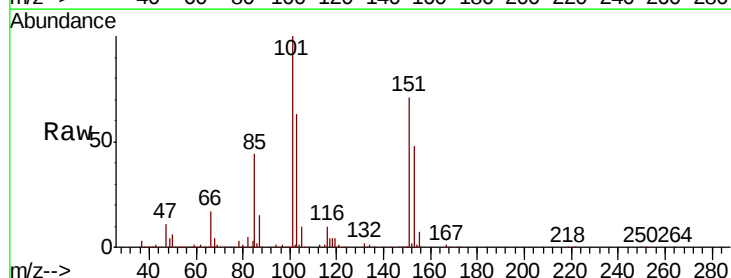
Acq: 17 Jul 2019 17:54

Tgt Ion:101 Resp: 1592768

Ion Ratio Lower Upper

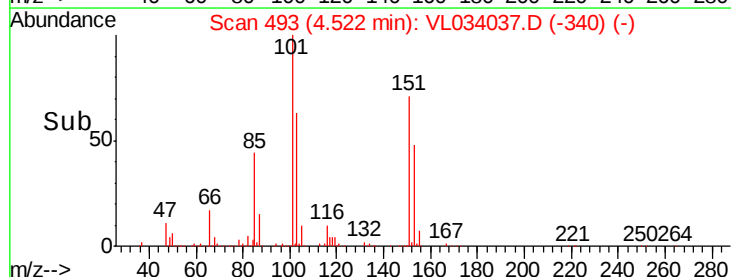
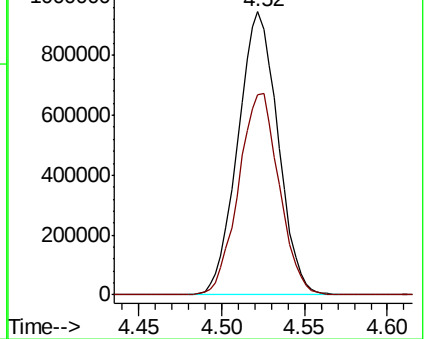
101 100

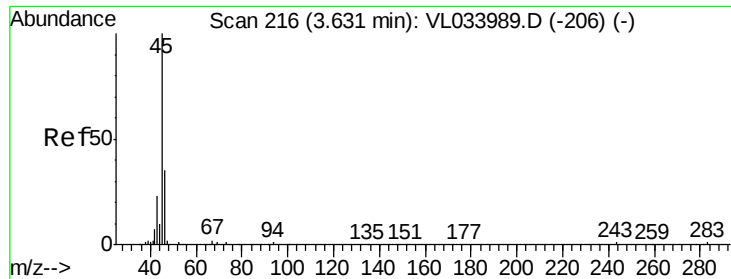
151 72.0 59.0 88.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

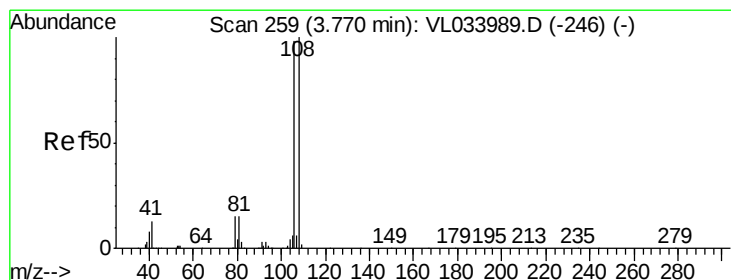
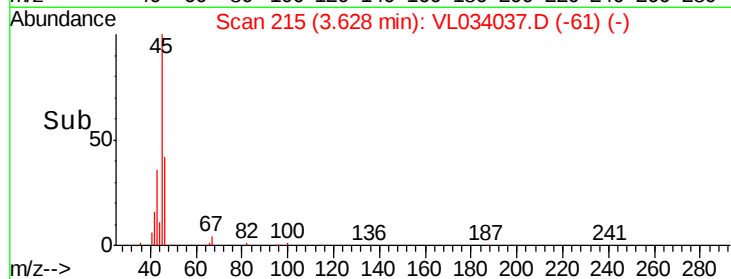
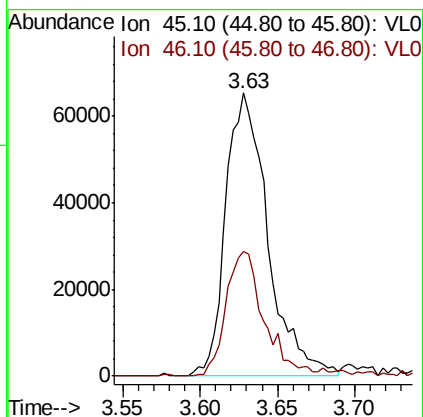
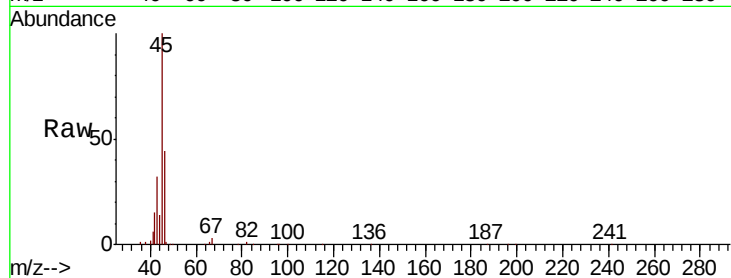




#13
Ethanol
Concen: 7.517 ppbv
RT: 3.63 min Scan# 215
Delta R.T. -0.00 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

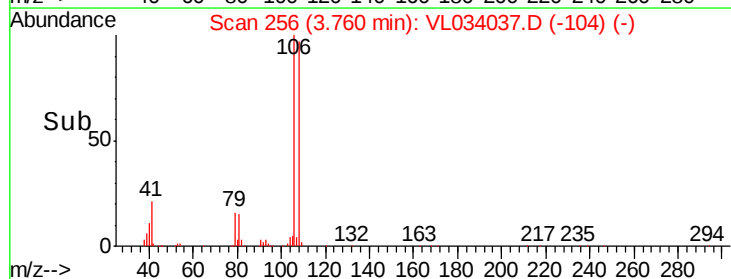
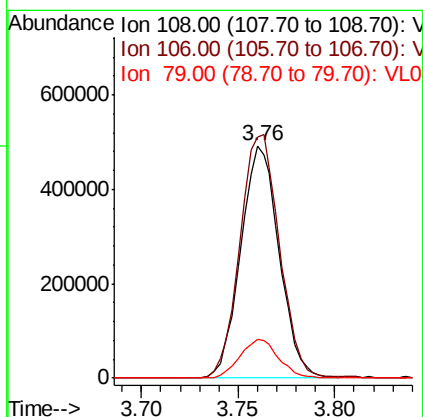
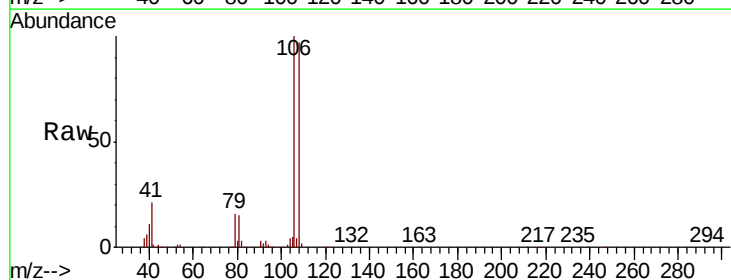
Instrument :
MSVOA_L
ClientSampleId :

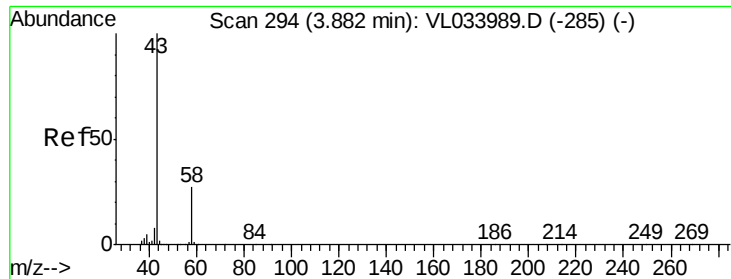
Tot Ion: 45 Resp: 123556
Ion Ratio Lower Upper
45 100
46 40.2 16.2 64.6



#14
Bromoethene
Concen: 9.546 ppbv
RT: 3.76 min Scan# 256
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

Tgt Ion: 108 Resp: 681984
Ion Ratio Lower Upper
108 100
106 108.0 85.6 128.4
79 16.8 14.0 21.0

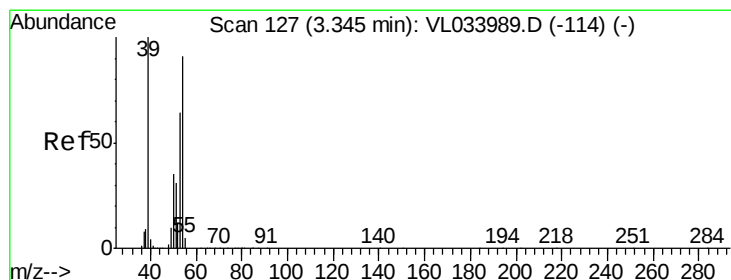
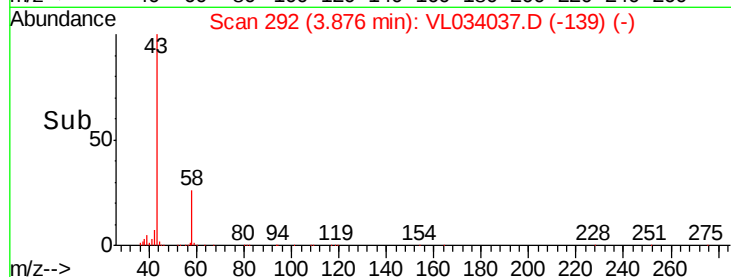
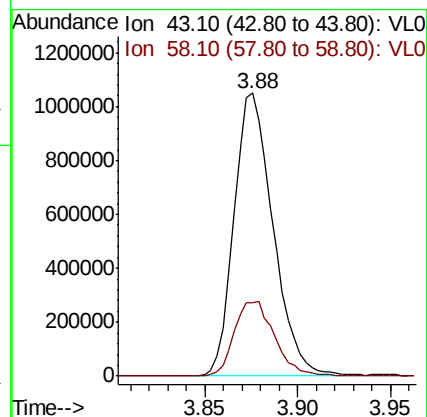
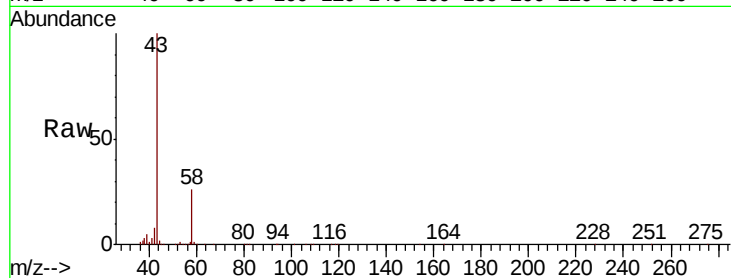




#15
Acetone
Concen: 7.817 ppbv
RT: 3.88 min Scan# 292
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

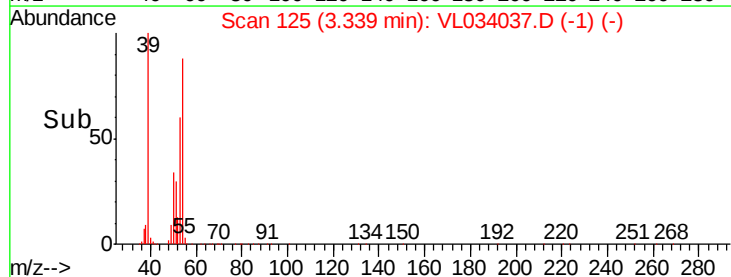
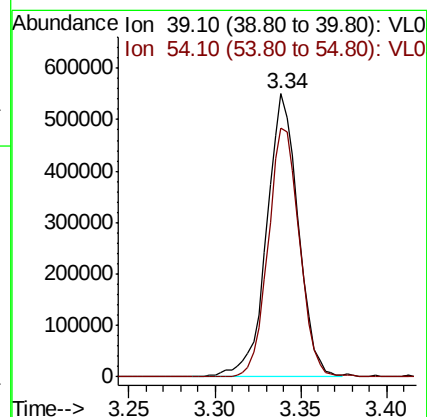
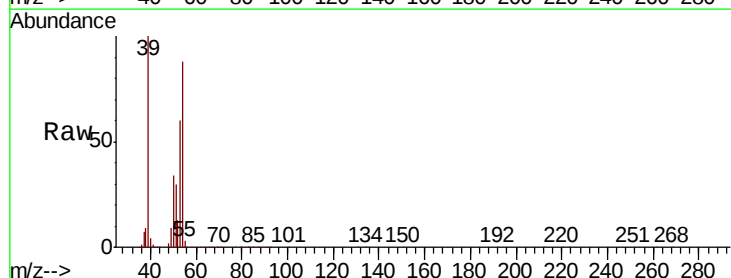
Instrument :
MSVOA_L
ClientSampleId :

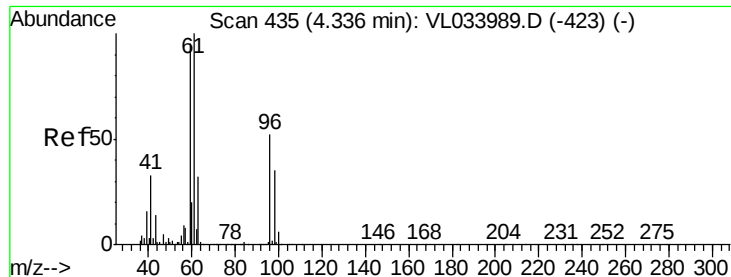
Tot Ion: 43 Resp: 1530745
Ion Ratio Lower Upper
43 100
58 27.7 21.4 32.0



#16
1,3-Butadiene
Concen: 10.136 ppbv
RT: 3.34 min Scan# 125
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

Tgt Ion: 39 Resp: 700861
Ion Ratio Lower Upper
39 100
54 87.1 71.4 107.2





#17

tert-Butyl alcohol
Concen: 9.043 ppbv
RT: 4.33 min Scan# 433
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

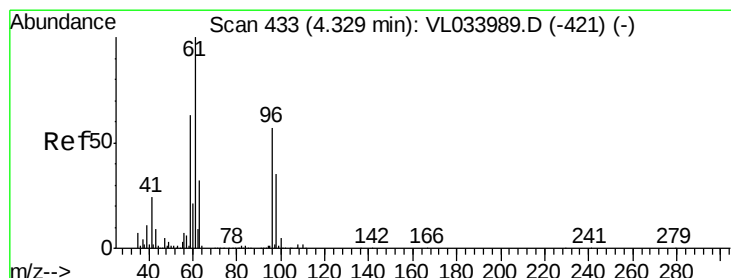
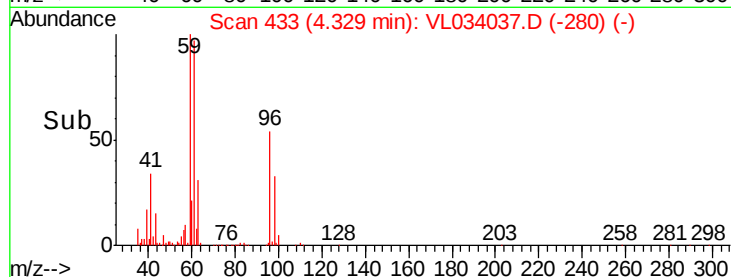
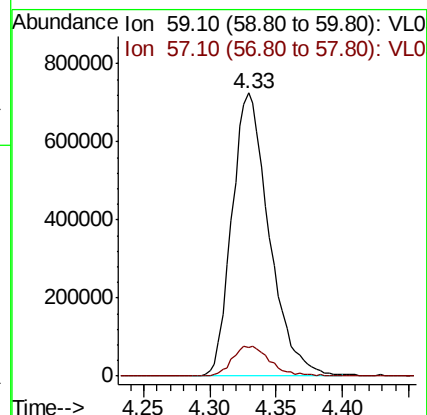
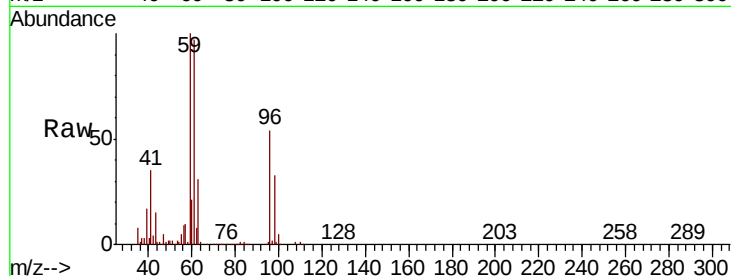
Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 59 Resp: 1411818

Ion Ratio Lower Upper

59 100

57 10.9 8.2 12.2



#18

1,1-Dichloroethene
Concen: 8.507 ppbv
RT: 4.32 min Scan# 431
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

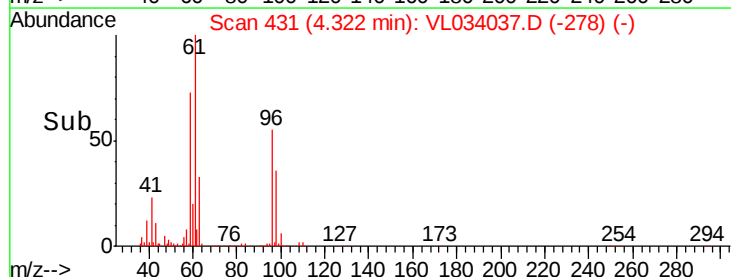
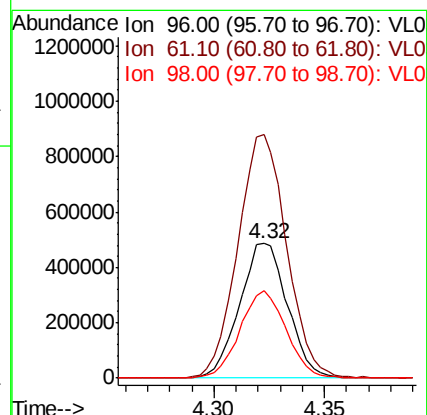
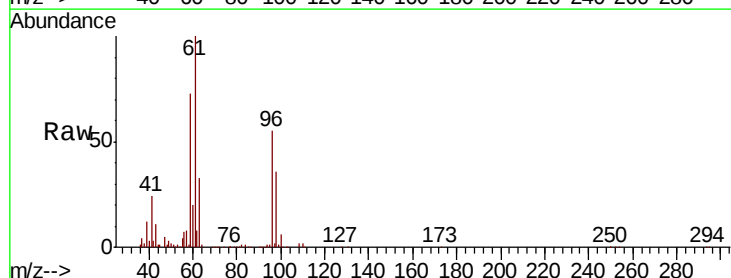
Tgt Ion: 96 Resp: 724807

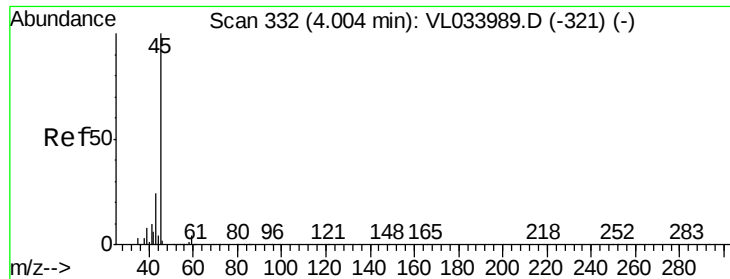
Ion Ratio Lower Upper

96 100

61 181.1 139.4 209.0

98 65.0 49.4 74.0



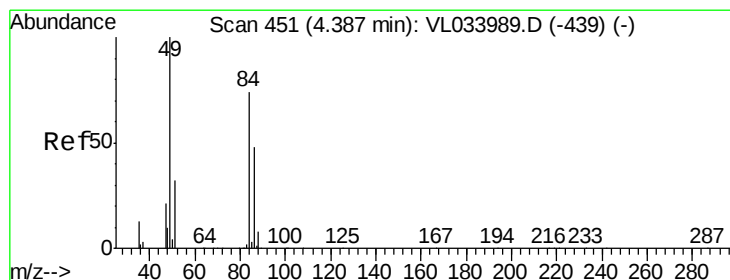
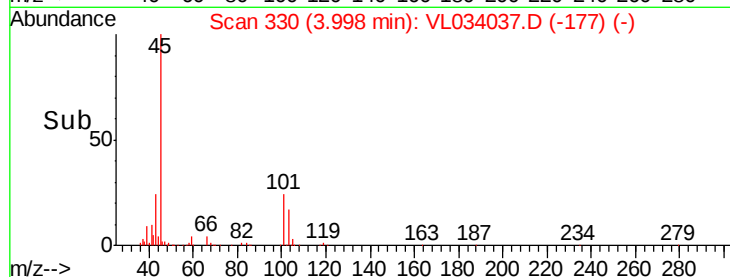
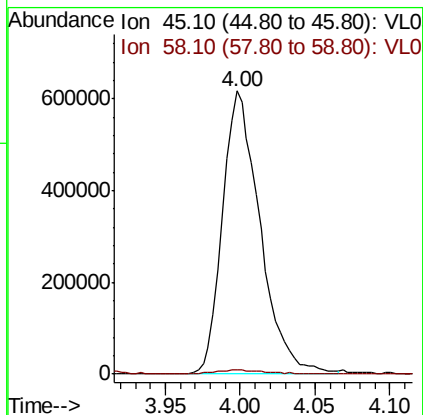
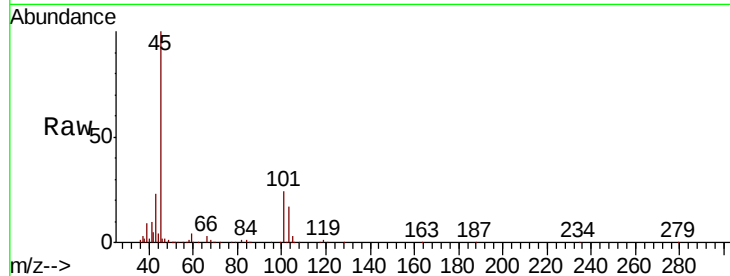


#19

Isopropyl Alcohol
 Concen: 8.207 ppbv
 RT: 4.00 min Scan# 330
 Delta R.T. -0.01 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

Instrument :
 MSVOA_L
 ClientSampleId :

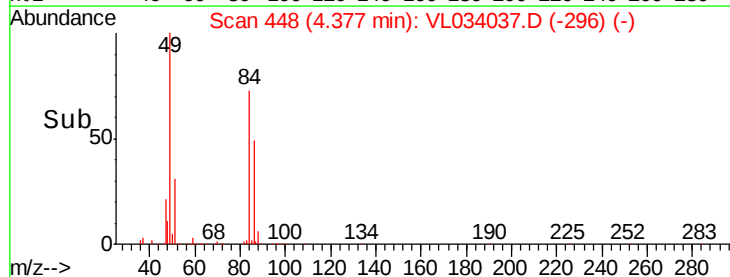
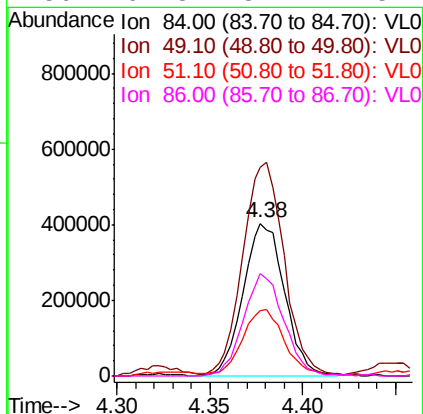
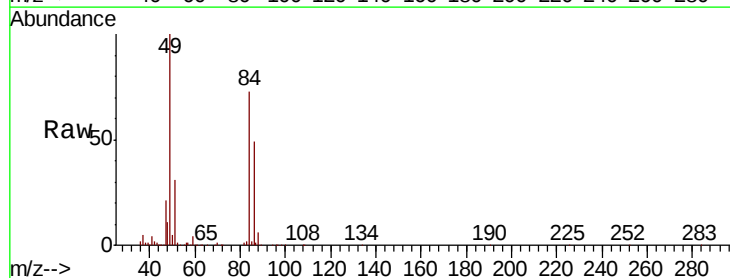
Tot Ion: 45 Resp: 1078801
 Ion Ratio Lower Upper
 45 100
 58 2.0 1.7 2.5

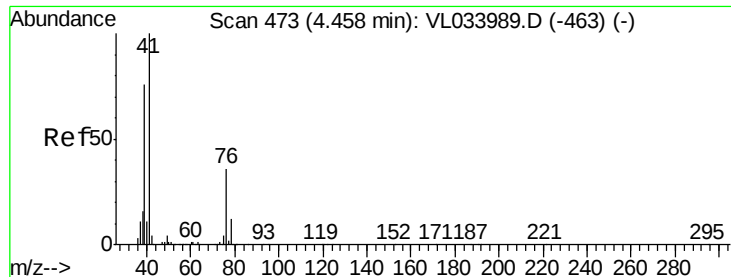


#20

Methylene Chloride
 Concen: 7.294 ppbv
 RT: 4.38 min Scan# 448
 Delta R.T. -0.01 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

Tgt Ion: 84 Resp: 622993
 Ion Ratio Lower Upper
 84 100
 49 136.5 107.6 161.4
 51 42.5 35.0 52.6
 86 67.8 52.1 78.1





#21

Allvl Chloride

Concen: 9.002 ppbv

RT: 4.45 min Scan# 470

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

ClientSampleId :

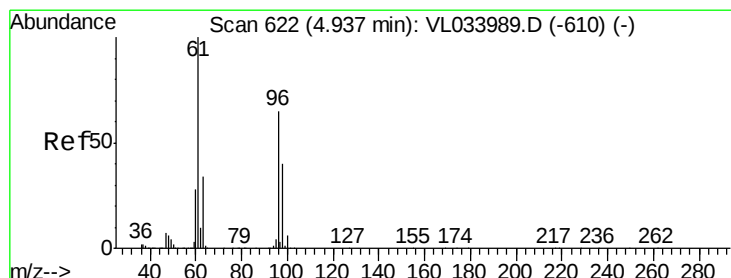
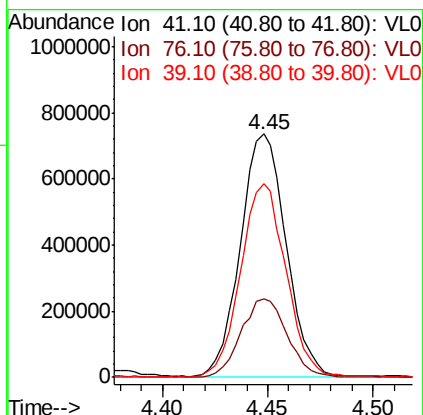
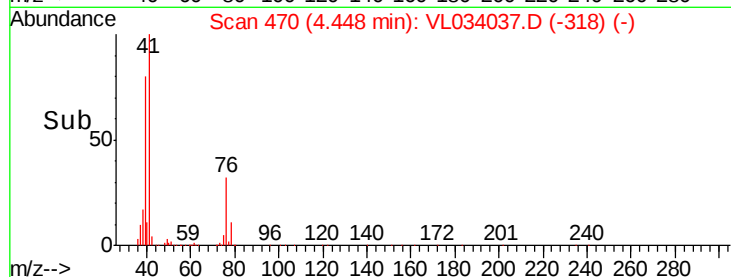
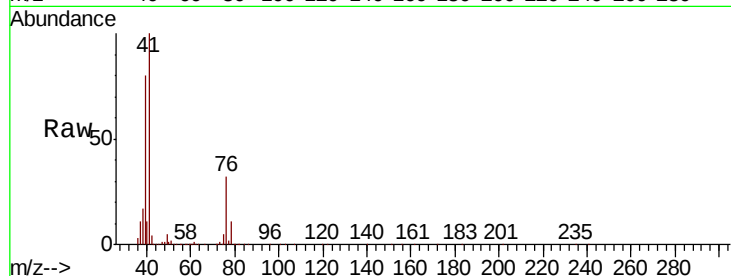
Tot Ion: 41 Resp: 1099184

Ion Ratio Lower Upper

41 100

76 33.0 26.8 40.2

39 79.9 63.1 94.7



#22

trans-1,2-Dichloroethene

Concen: 9.233 ppbv

RT: 4.93 min Scan# 620

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

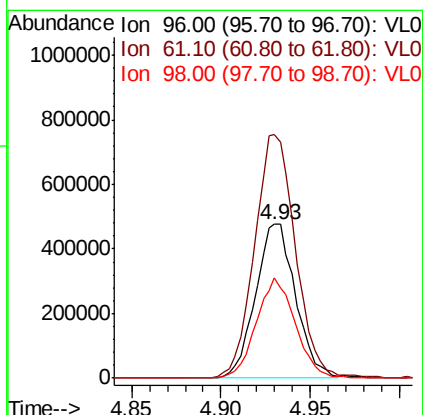
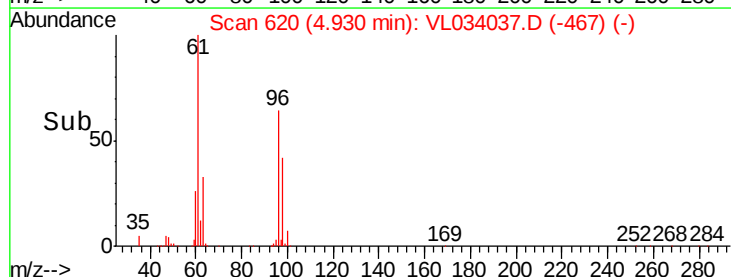
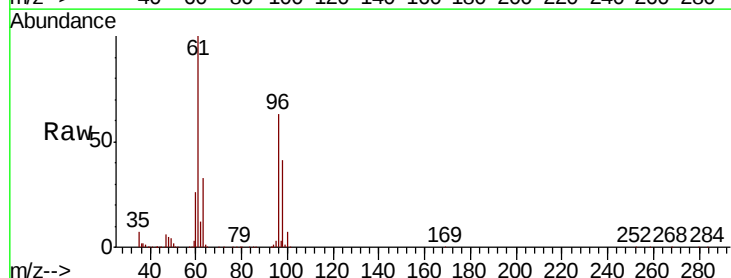
Tgt Ion: 96 Resp: 749600

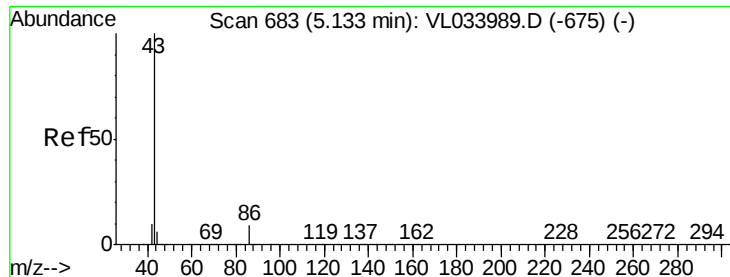
Ion Ratio Lower Upper

96 100

61 158.5 122.9 184.3

98 65.2 49.6 74.4





#23

Vinyl Acetate

Concen: 10.611 ppbv

RT: 5.12 min Scan# 680

Delta R.T. -0.01 min

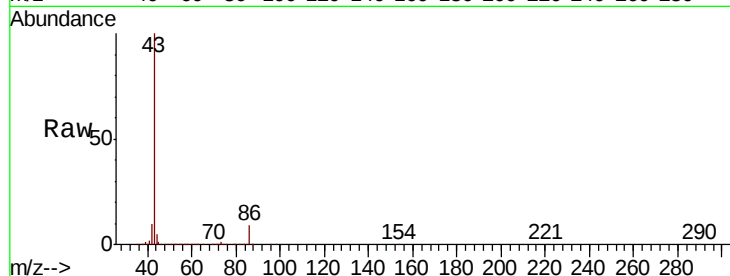
Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

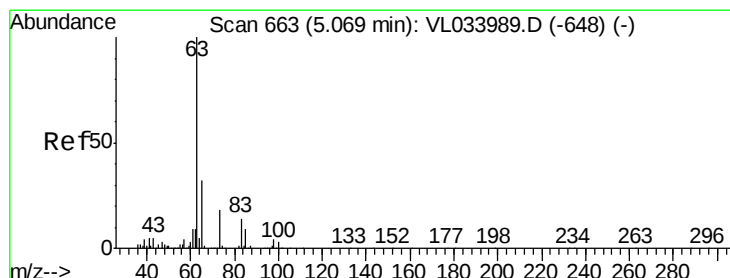
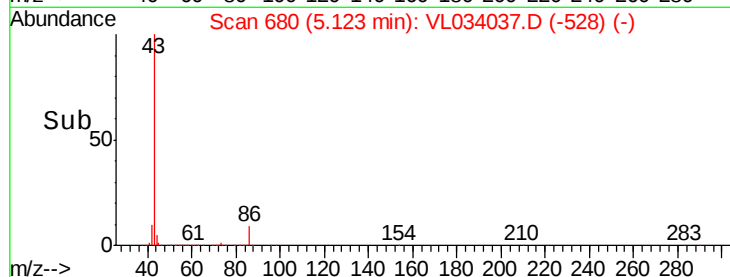
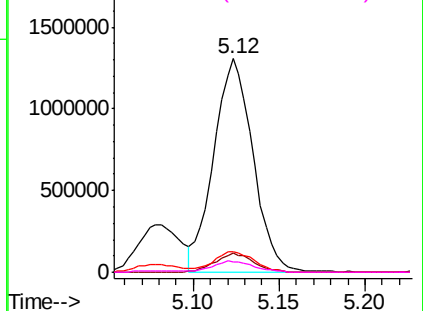
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 2074049

Ion	Ratio	Lower	Upper
43	100		
86	8.9	6.6	9.8
42	9.7	8.3	12.5
44	4.7	4.3	6.5



Abundance Ion 43.10 (42.80 to 43.80): VL0
2000000 Ion 86.10 (85.80 to 86.80): VL0
1500000 Ion 42.10 (41.80 to 42.80): VL0
1000000 Ion 44.10 (43.80 to 44.80): VL0
500000
0



#24

1,1-Dichloroethane

Concen: 9.450 ppbv

RT: 5.06 min Scan# 660

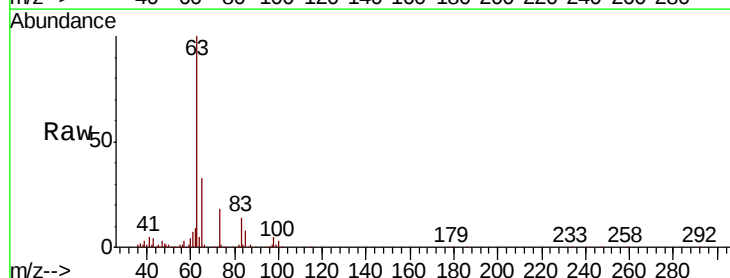
Delta R.T. -0.01 min

Lab File: VL034037.D

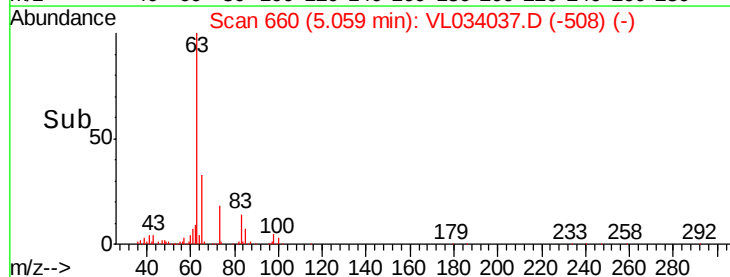
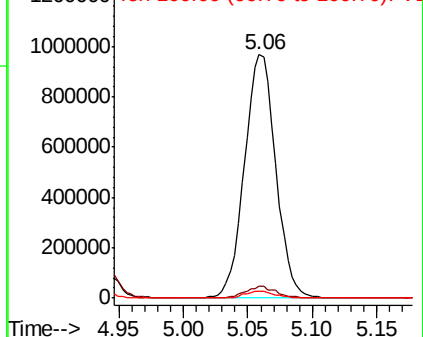
Acq: 17 Jul 2019 17:54

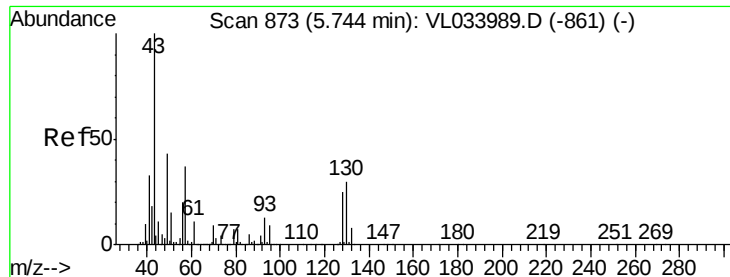
Tgt Ion: 63 Resp: 1636941

Ion	Ratio	Lower	Upper
63	100		
98	4.7	2.2	6.6
100	3.0	1.4	4.2



Abundance Ion 63.10 (62.80 to 63.80): VL0
1200000 Ion 98.00 (97.70 to 98.70): VL0
1000000 Ion 100.00 (99.70 to 100.70): VL0
800000
600000
400000
200000
0





#25

Ethyl Acetate

Concen: 9.870 ppbv

RT: 5.73 min Scan# 870

Delta R.T. -0.01 min

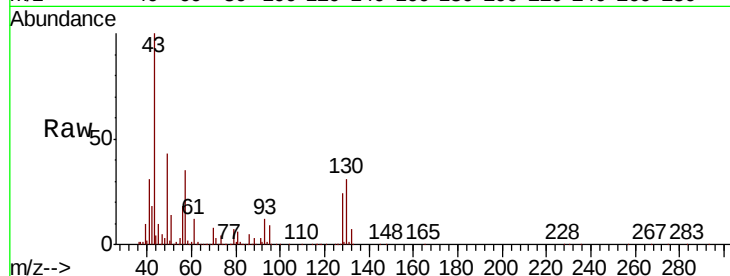
Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 2643521

Ion	Ratio	Lower	Upper
43	100		
45	10.0	8.1	12.1
61	10.3	8.1	12.1
70	8.0	6.3	9.5



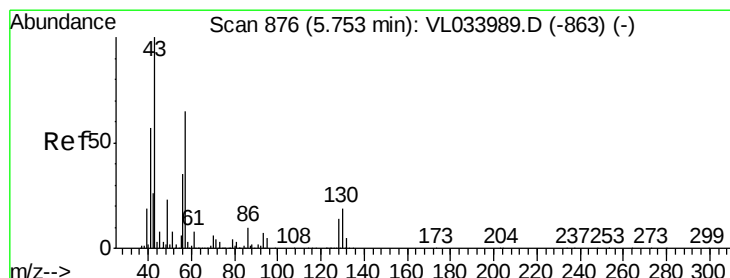
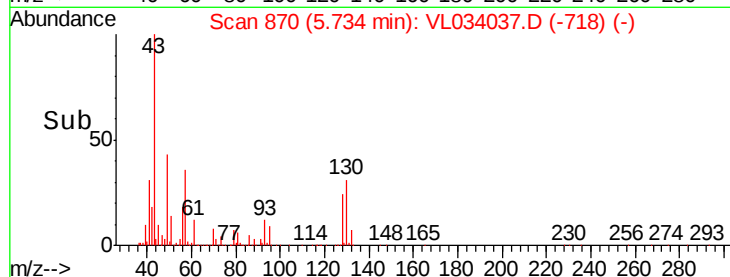
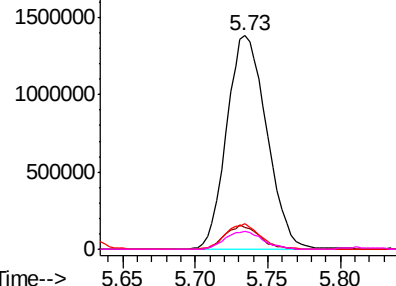
Abundance

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: 9.786 ppbv

RT: 5.74 min Scan# 872

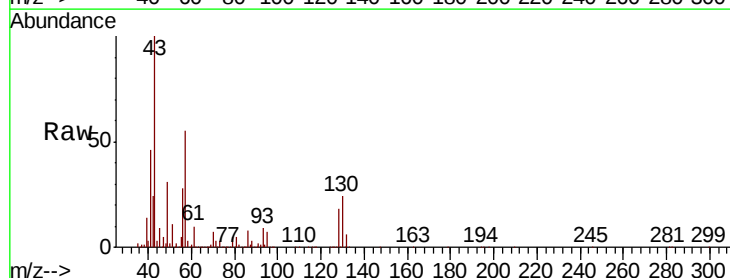
Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Tgt Ion: 57 Resp: 1199439

Ion	Ratio	Lower	Upper
57	100		
41	87.8	70.6	105.8
43	221.5	177.6	266.4
56	53.2	42.6	64.0



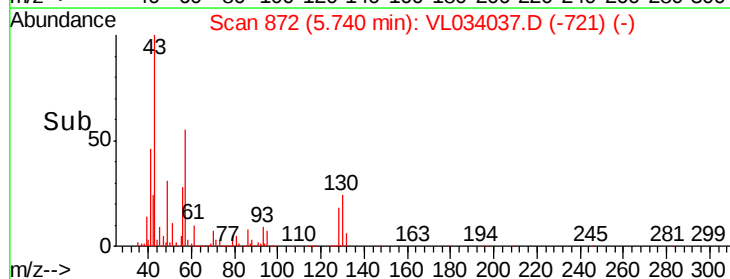
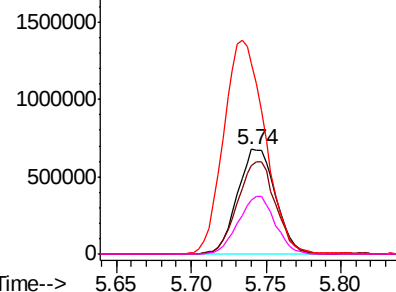
Abundance

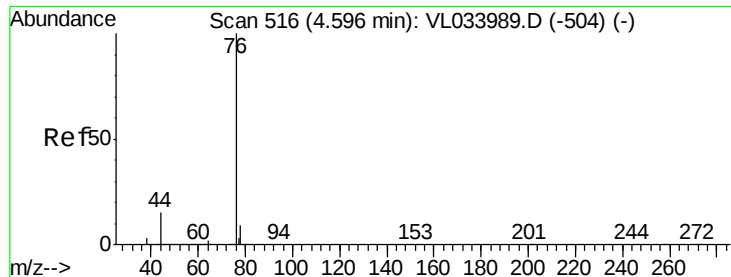
Ion 57.10 (56.80 to 57.80): VL0

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: 9.280 ppbv

RT: 4.59 min Scan# 514

Delta R.T. -0.01 min

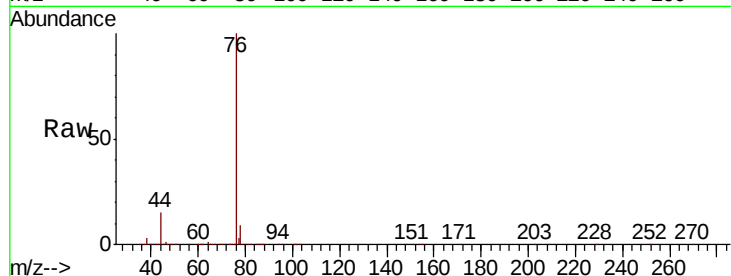
Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

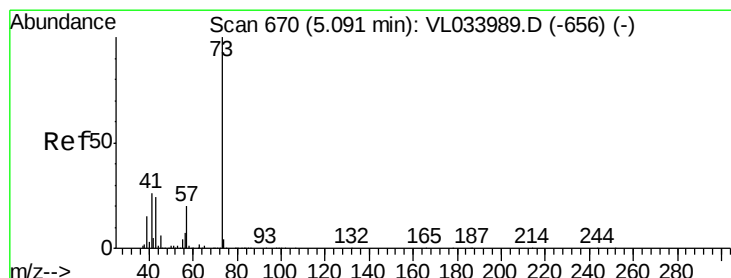
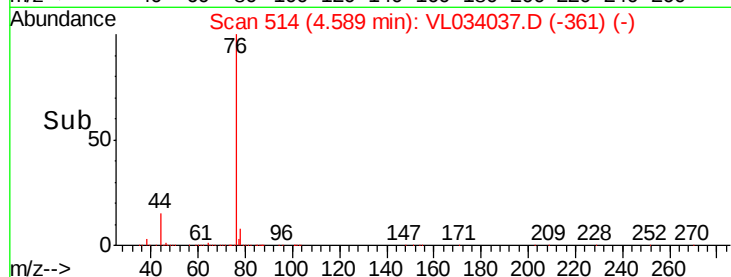
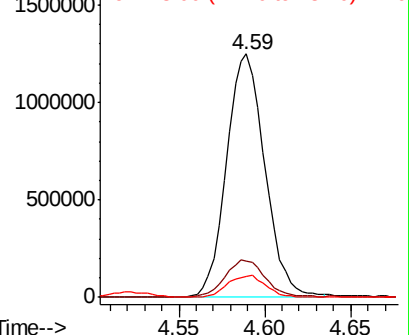
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 76 Resp: 1933632

Ion	Ratio	Lower	Upper
76	100		
44	15.5	12.6	18.8
78	9.0	7.2	10.8



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: 10.297 ppbv

RT: 5.08 min Scan# 666

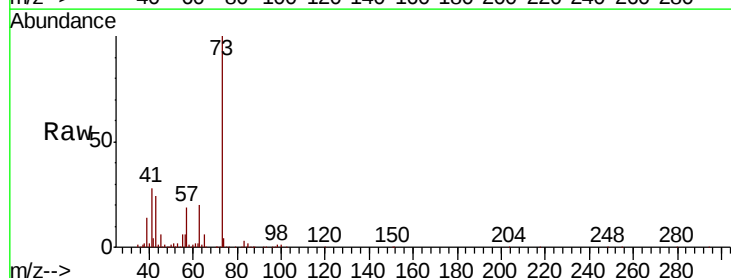
Delta R.T. -0.01 min

Lab File: VL034037.D

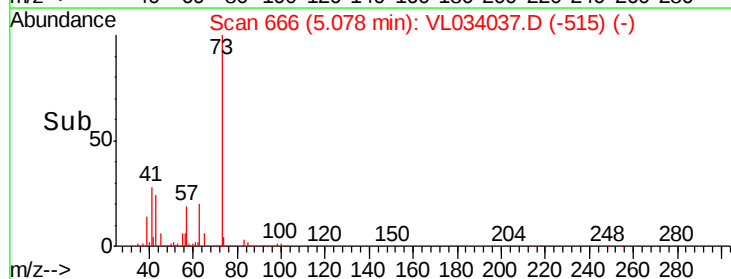
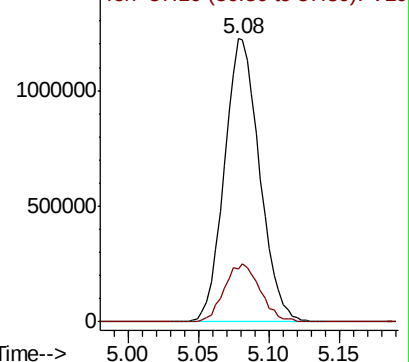
Acq: 17 Jul 2019 17:54

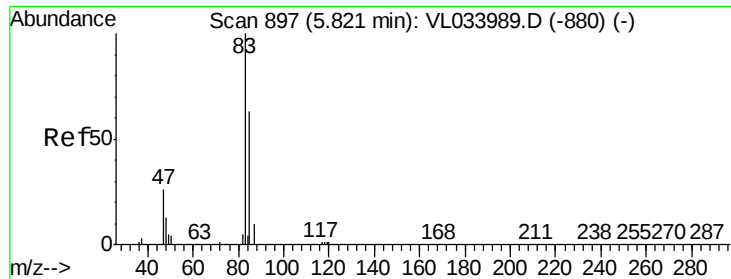
Tgt Ion: 73 Resp: 2137357

Ion	Ratio	Lower	Upper
73	100		
57	21.1	16.9	25.3



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

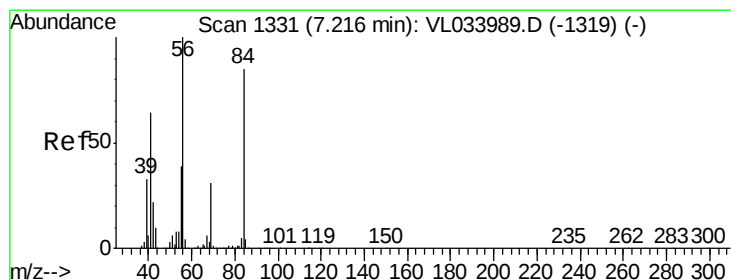
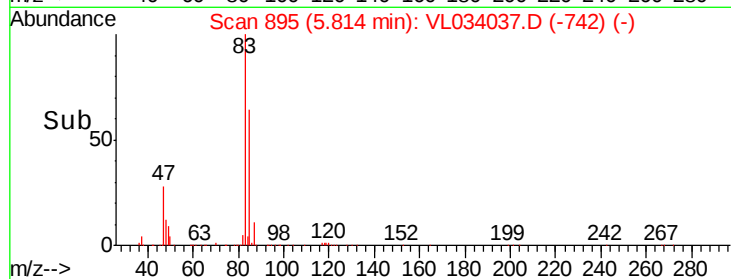
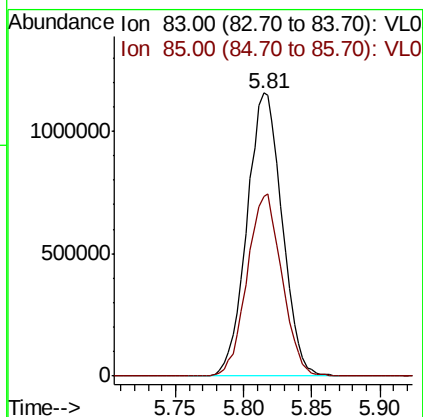
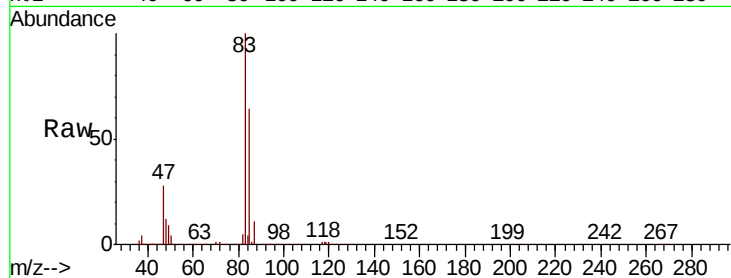




#29
Chloroform
Concen: 8.984 ppbv
RT: 5.81 min Scan# 895
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

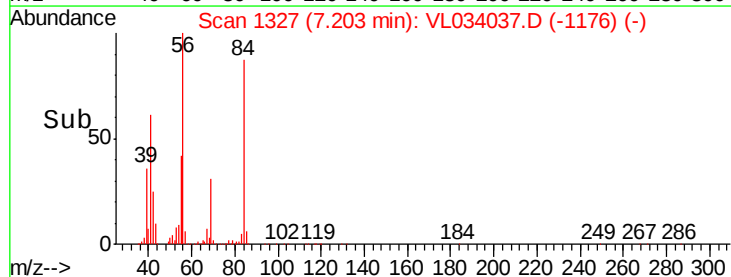
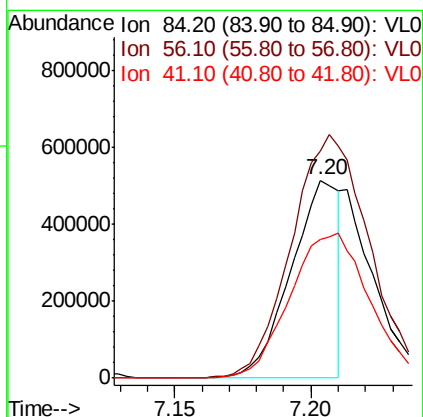
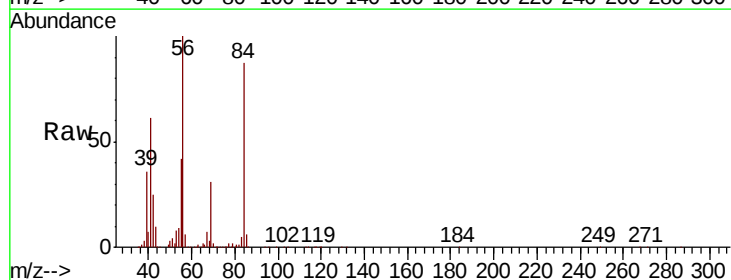
Instrument :
MSVOA_L
ClientSampled :

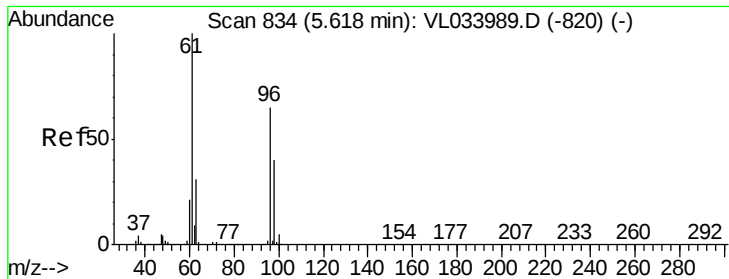
Tot Ion: 83 Resp: 2069286
Ion Ratio Lower Upper
83 100
85 63.4 50.6 75.8



#30
Cyclohexane
Concen: 6.623 ppbv
RT: 7.20 min Scan# 1327
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

Tgt Ion: 84 Resp: 626883
Ion Ratio Lower Upper
84 100
56 0.0 103.7 155.5#
41 0.0 62.6 94.0#



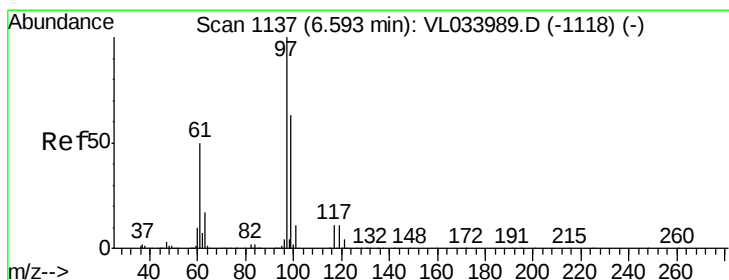
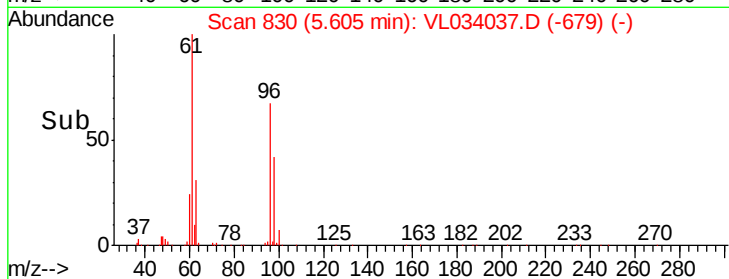
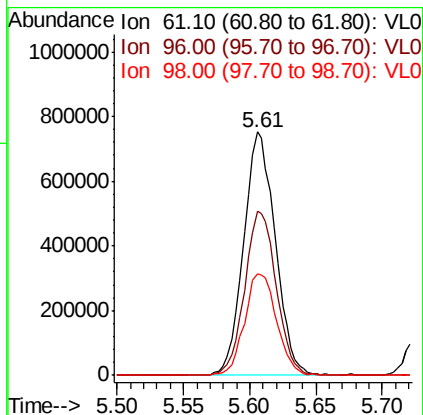
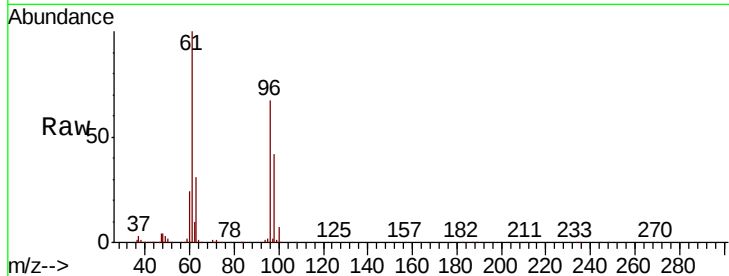


#31

cis-1,2-Dichloroethene
 Concen: 10.549 ppbv
 RT: 5.61 min Scan# 830
 Delta R.T. -0.01 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

Instrument :
 MSVOA_L
 ClientSampleId :

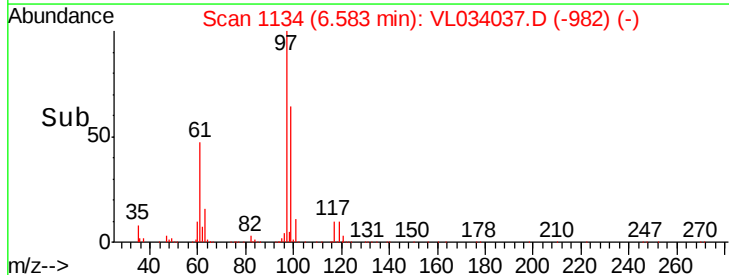
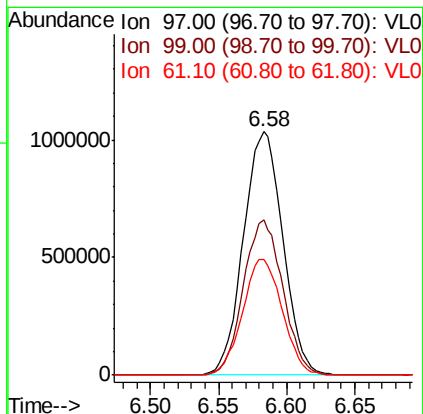
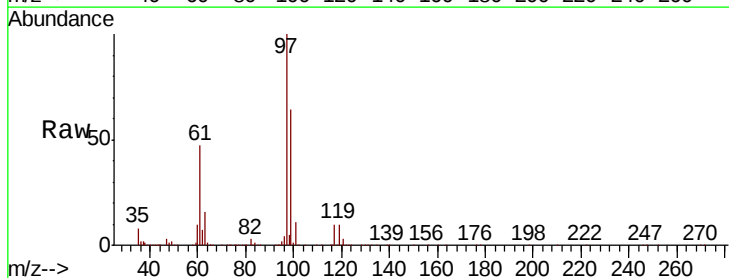
Tot Ion: 61 Resp: 1249148
 Ion Ratio Lower Upper
 61 100
 96 67.3 51.8 77.6
 98 41.6 32.1 48.1

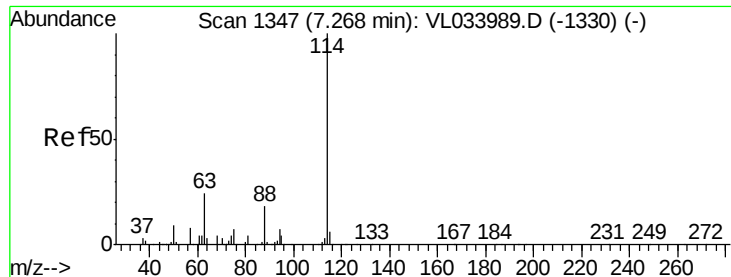


#32

1,1,1-Trichloroethane
 Concen: 8.927 ppbv
 RT: 6.58 min Scan# 1134
 Delta R.T. -0.01 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

Tgt Ion: 97 Resp: 2083998
 Ion Ratio Lower Upper
 97 100
 99 63.6 51.9 77.9
 61 47.9 39.8 59.8

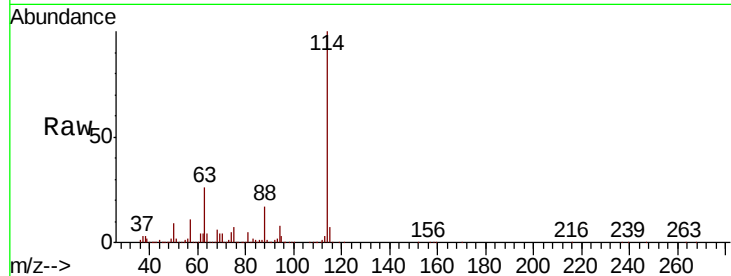




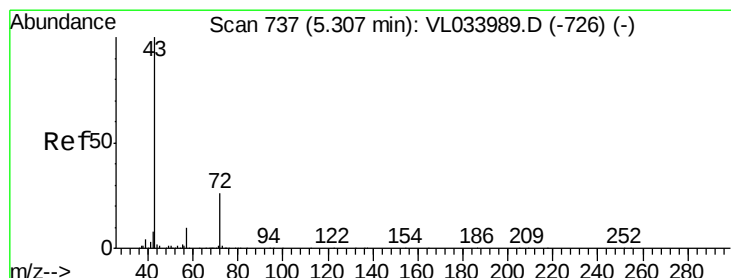
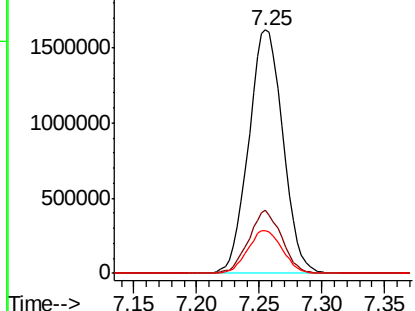
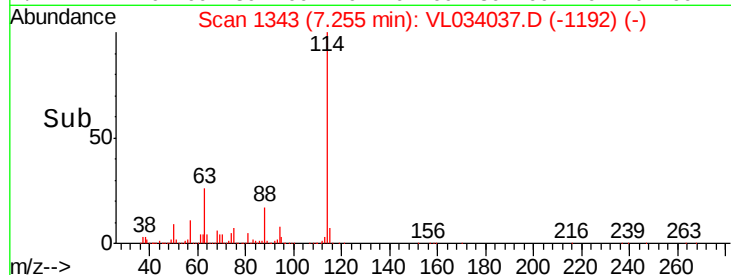
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.25 min Scan# 1343
 Delta R.T. -0.01 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3081533
 Ion Ratio Lower Upper
 114 100
 63 25.2 20.2 30.2
 88 17.8 14.1 21.1

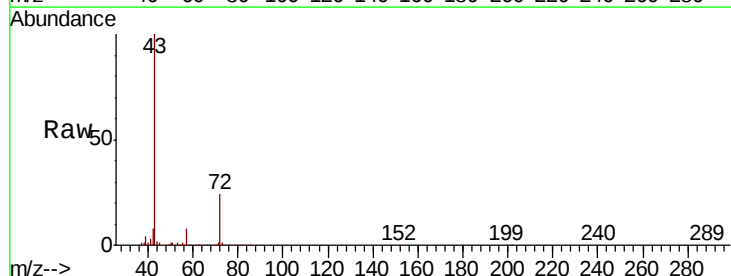


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

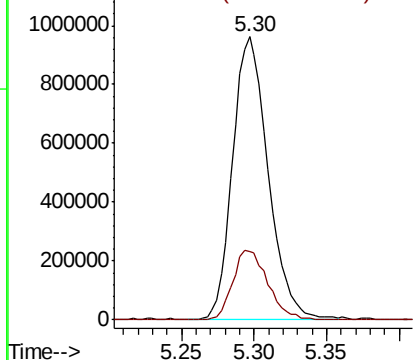
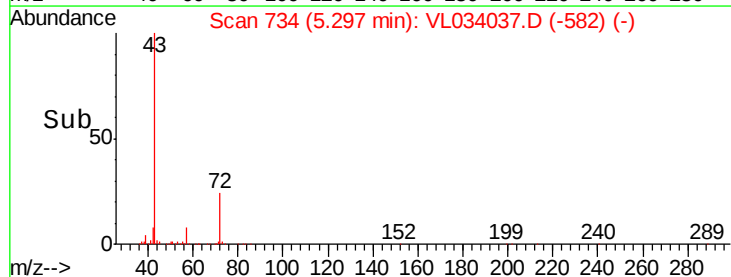


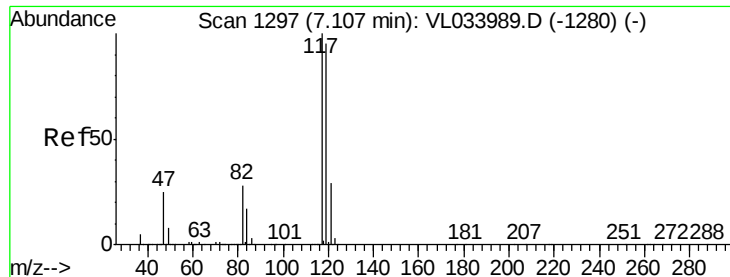
#34
 2-Butanone
 Concen: 10.029 ppbv
 RT: 5.30 min Scan# 734
 Delta R.T. -0.01 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

Tgt Ion: 43 Resp: 1635579
 Ion Ratio Lower Upper
 43 100
 72 24.5 19.9 29.9



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.014 ppbv

RT: 7.10 min Scan# 1294

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

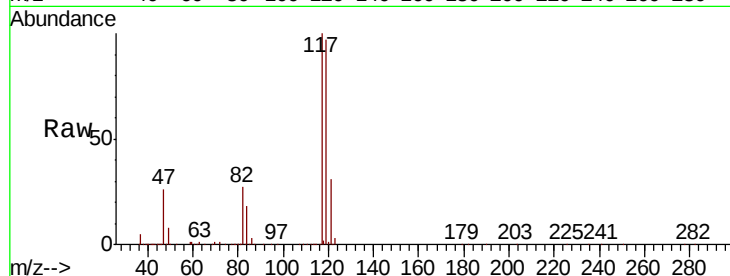
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:117 Resp: 2198923

Ion	Ratio	Lower	Upper
117	100		
119	97.4	75.8	113.6
121	31.4	23.4	35.2

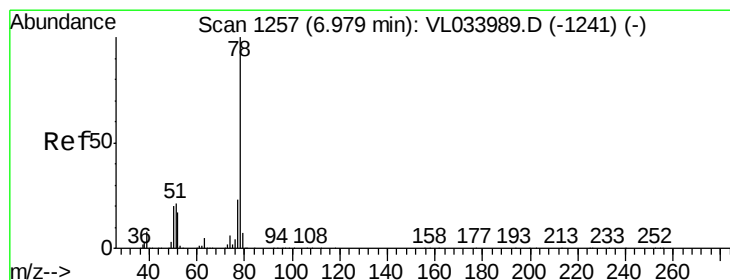
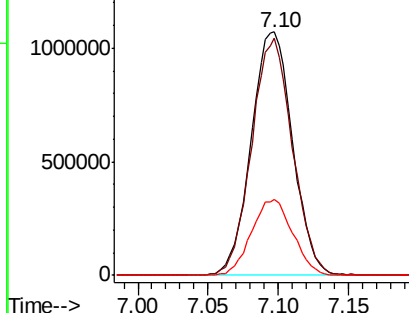
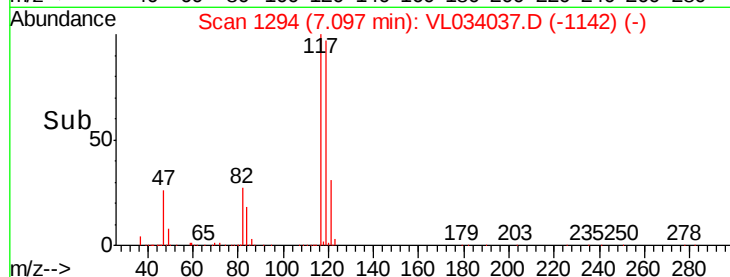


Abundance

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: 10.314 ppbv

RT: 6.97 min Scan# 1254

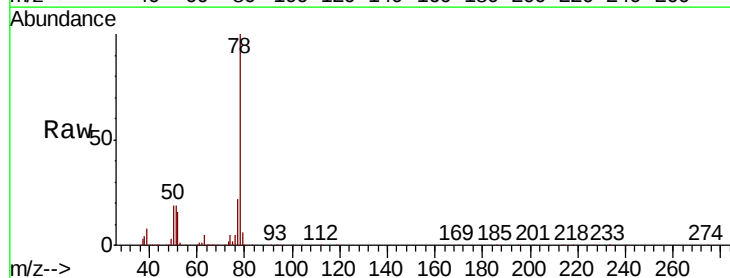
Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Tgt Ion: 78 Resp: 2486904

Ion	Ratio	Lower	Upper
78	100		
77	21.7	18.7	28.1
50	19.3	16.2	24.2

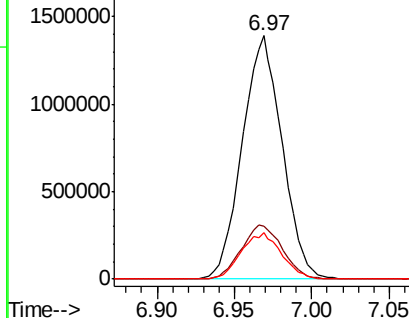
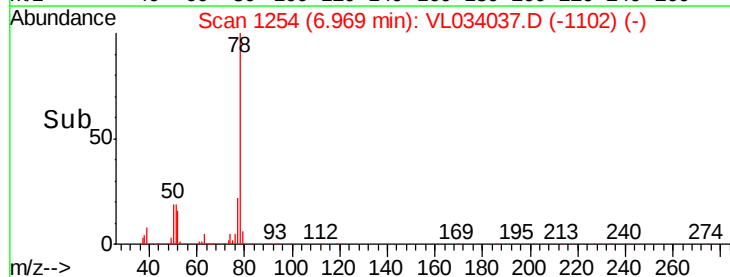


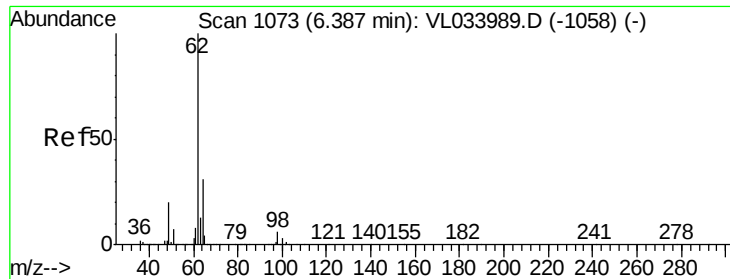
Abundance

Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

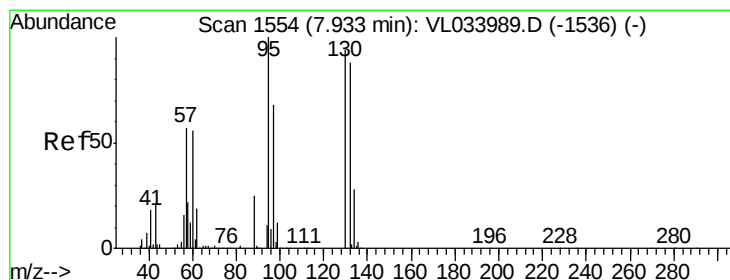
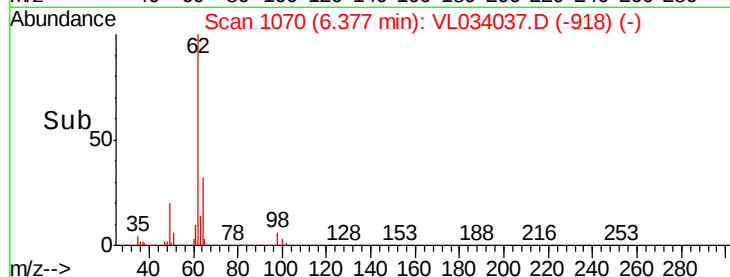
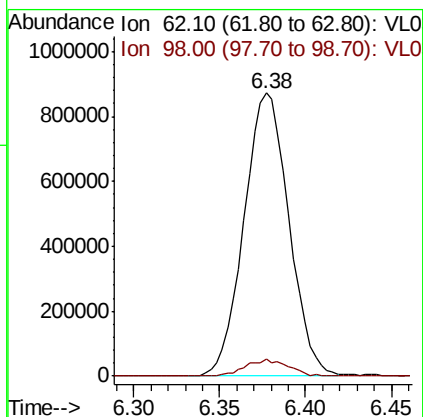
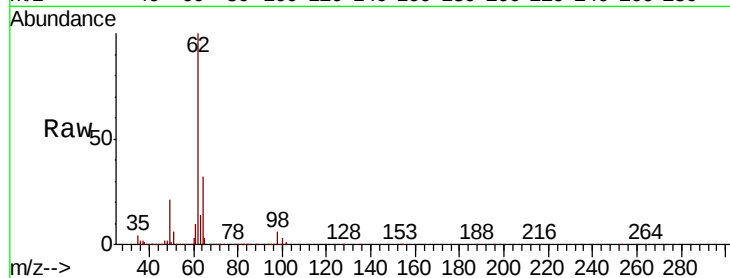




#37
 1,2-Dichloroethane
 Concen: 8.903 ppbv
 RT: 6.38 min Scan# 1070
 Delta R.T. -0.01 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

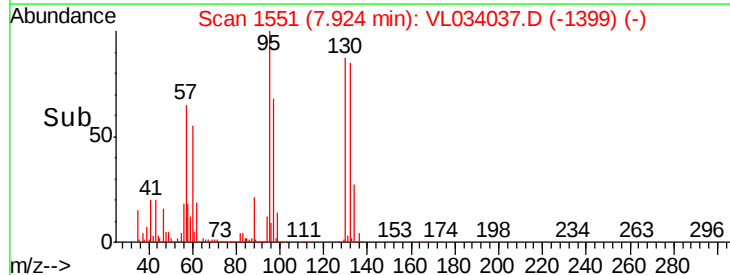
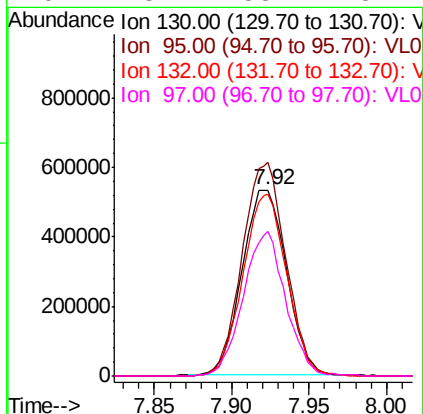
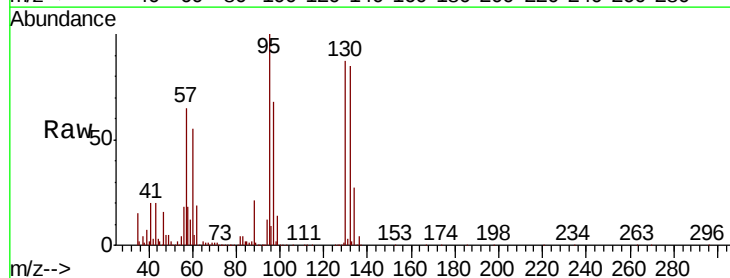
Instrument :
 MSVOA_L
 ClientSampleId :

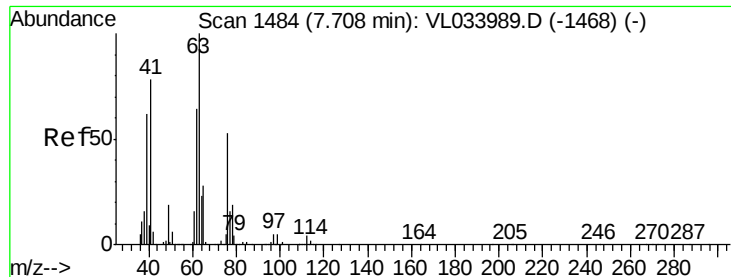
Tot Ion: 62 Resp: 1581400
 Ion Ratio Lower Upper
 62 100
 98 5.7 4.4 6.6



#38
 Trichloroethene
 Concen: 9.923 ppbv
 RT: 7.92 min Scan# 1551
 Delta R.T. -0.01 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

Tgt Ion: 130 Resp: 1064604
 Ion Ratio Lower Upper
 130 100
 95 115.4 85.5 128.3
 132 97.8 75.1 112.7
 97 78.1 58.1 87.1

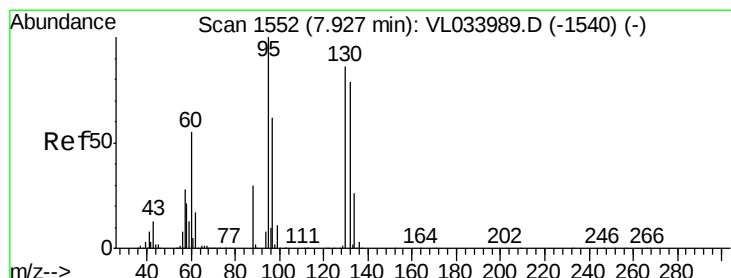
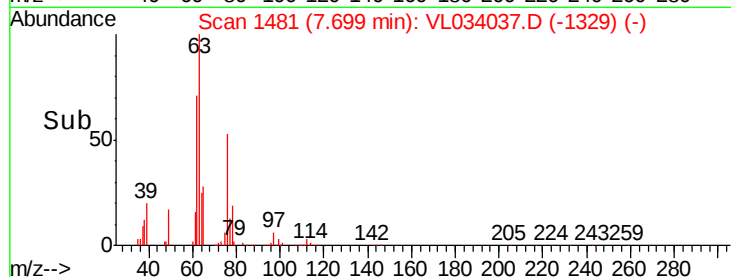
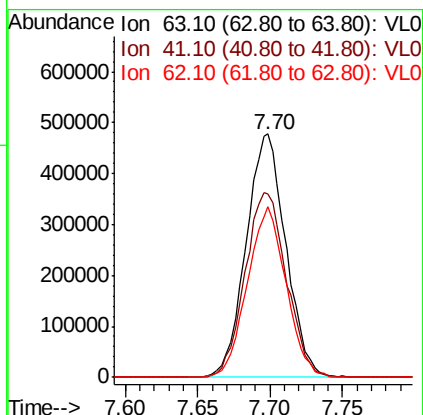
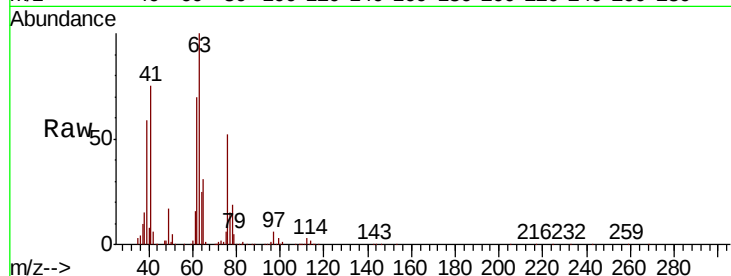




#39
 1,2-Dichloropropane
 Concen: 10.129 ppbv
 RT: 7.70 min Scan# 1481
 Delta R.T. -0.01 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

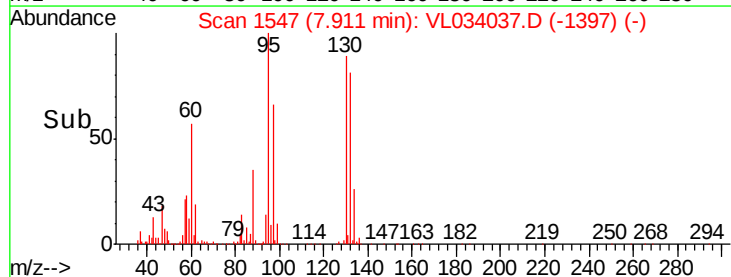
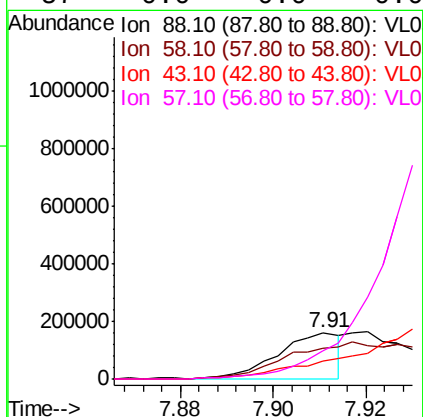
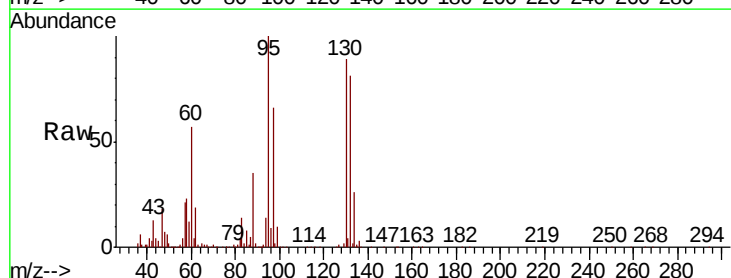
Instrument :
 MSVOA_L
 ClientSampleID :

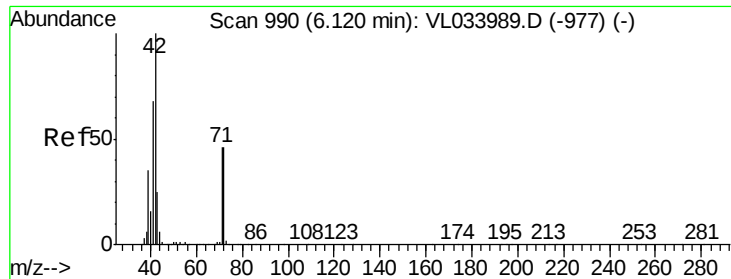
Tot Ion: 63 Resp: 908168
 Ion Ratio Lower Upper
 63 100
 41 75.3 62.3 93.5
 62 70.3 51.4 77.2



#40
 1,4-Dioxane
 Concen: 3.613 ppbv
 RT: 7.91 min Scan# 1547
 Delta R.T. -0.02 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

Tgt Ion: 88 Resp: 149560
 Ion Ratio Lower Upper
 88 100
 58 0.0 99.1 148.7#
 43 0.0 0.0 0.0
 57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 10.708 ppbv

RT: 6.11 min Scan# 987

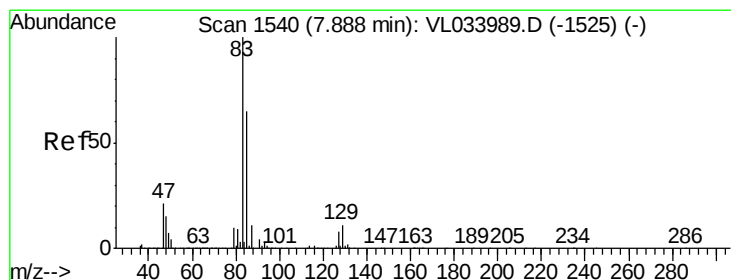
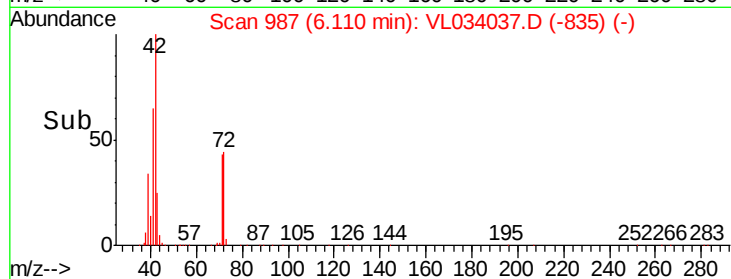
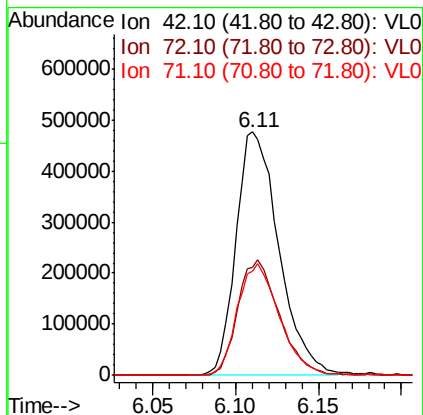
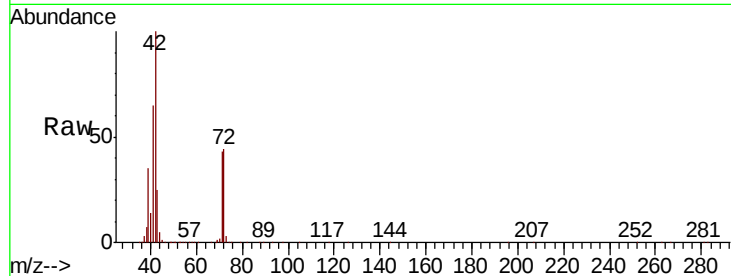
Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	42	Resp:	856420
Ion	Ratio	Lower	Upper
42	100		
72	46.2	37.3	55.9
71	45.3	36.2	54.2



#42

Bromodichloromethane

Concen: 9.555 ppbv

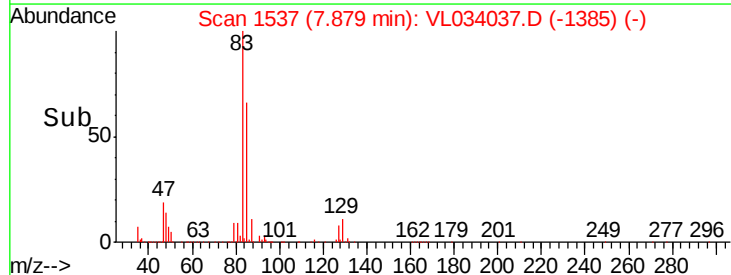
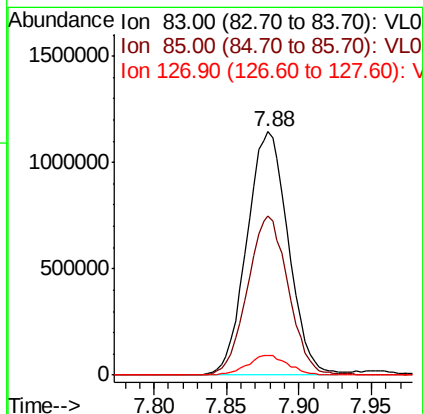
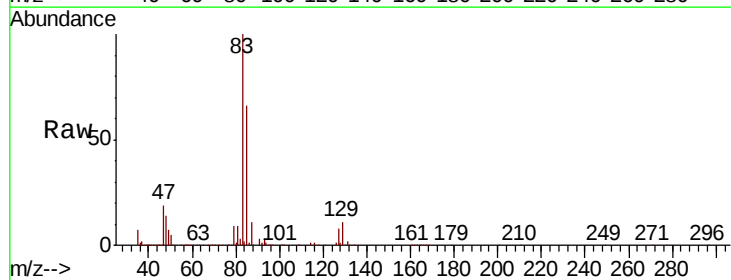
RT: 7.88 min Scan# 1537

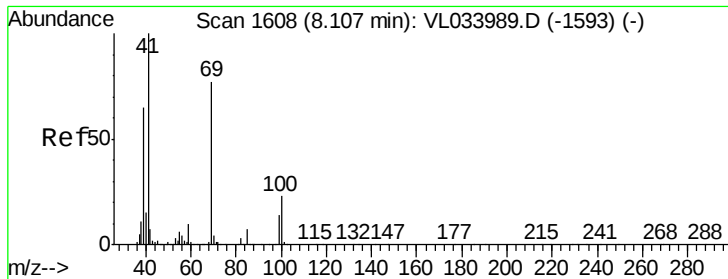
Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Tgt Ion:	83	Resp:	2277255
Ion	Ratio	Lower	Upper
83	100		
85	65.5	51.8	77.8
127	8.0	6.5	9.7

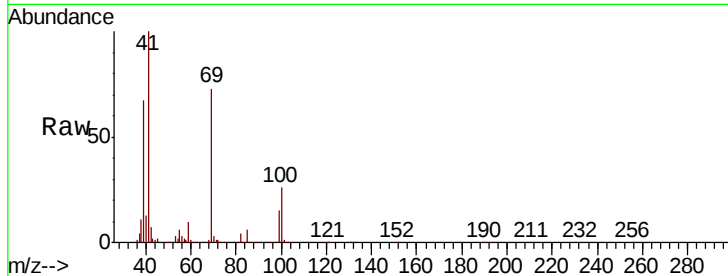




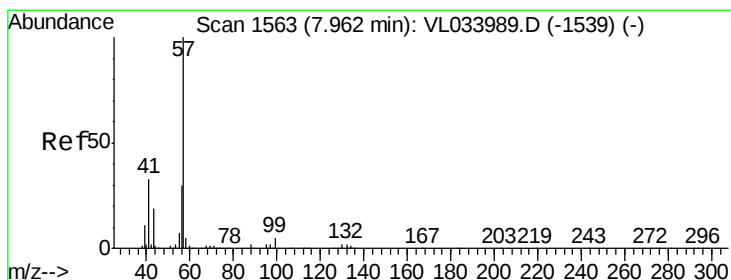
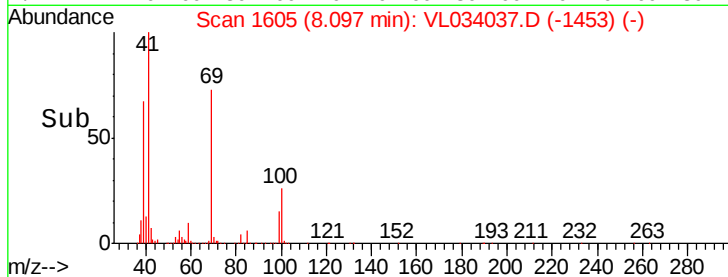
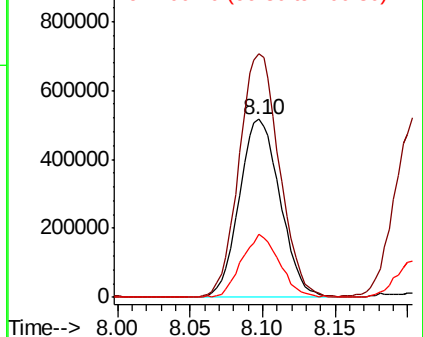
#43
Methvl Methacrvlate
Concen: 11.074 ppbv
RT: 8.10 min Scan# 1605
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 69 Resp: 1013069
Ion Ratio Lower Upper
69 100
41 135.1 109.1 163.7
100 32.8 25.3 37.9

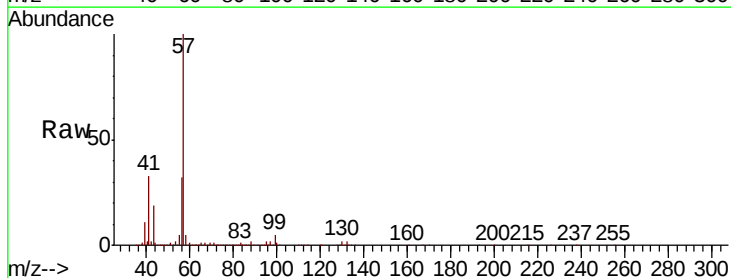


Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0

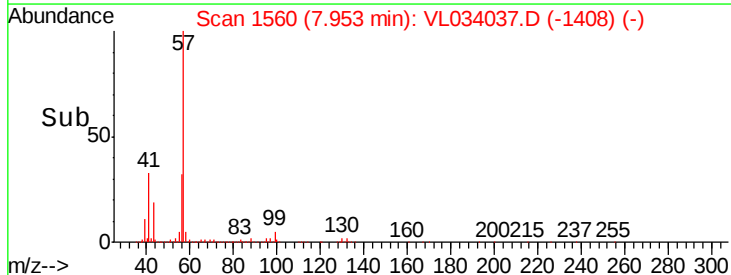
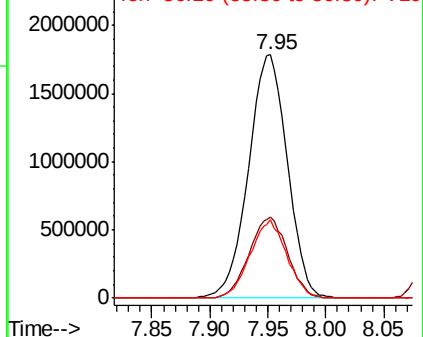


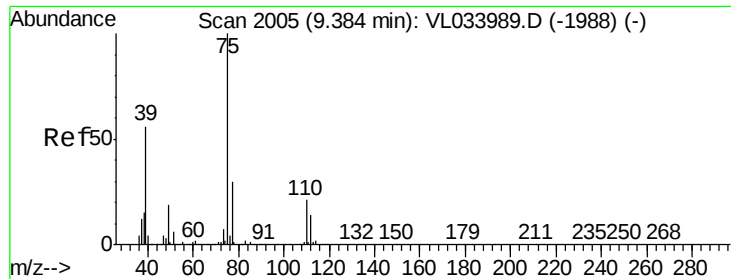
#44
2,2,4-Trimethylpentane
Concen: 9.989 ppbv
RT: 7.95 min Scan# 1560
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

Tgt Ion: 57 Resp: 4157381
Ion Ratio Lower Upper
57 100
41 32.9 26.1 39.1
56 30.3 24.4 36.6



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

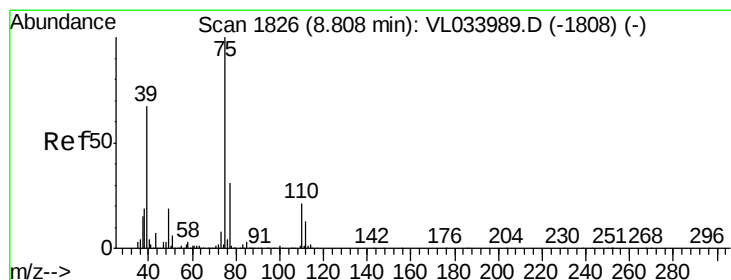
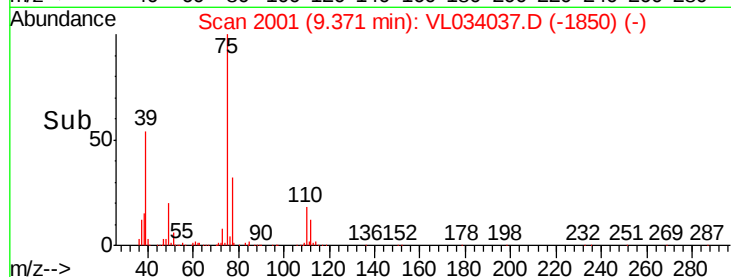
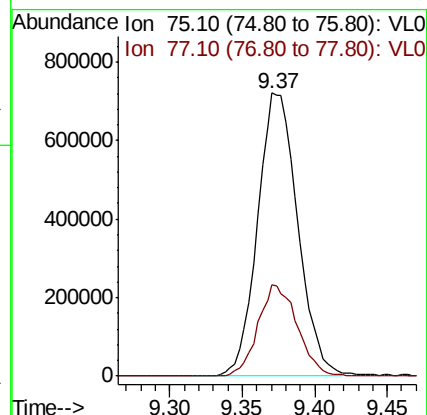
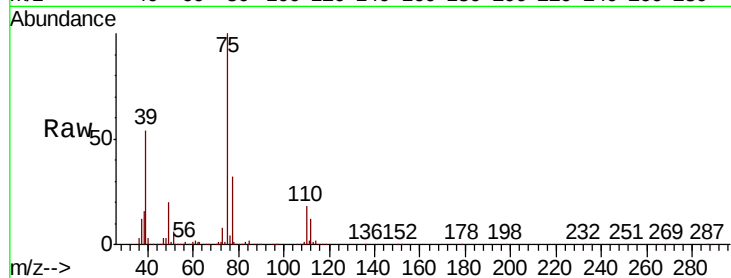




#45
 t-1,3-Dichloropropene
 Concen: 11.616 ppbv
 RT: 9.37 min Scan# 2001
 Delta R.T. -0.01 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

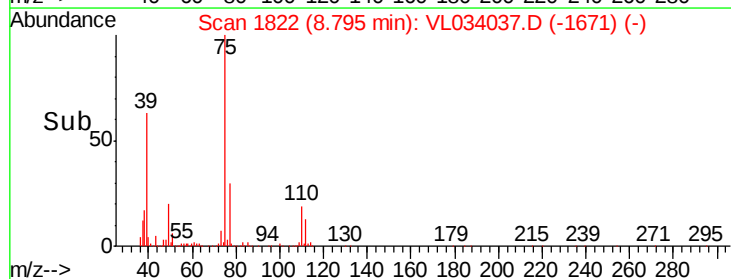
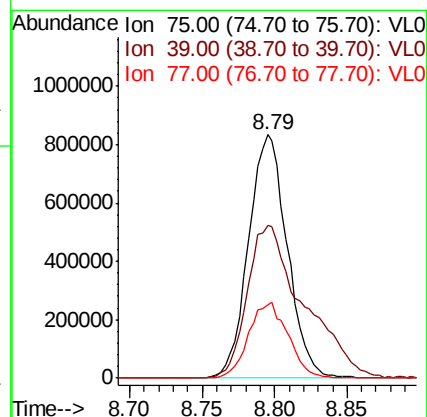
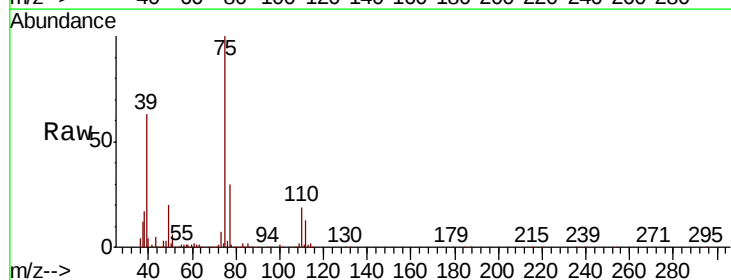
Instrument :
 MSVOA_L
 ClientSampleId :

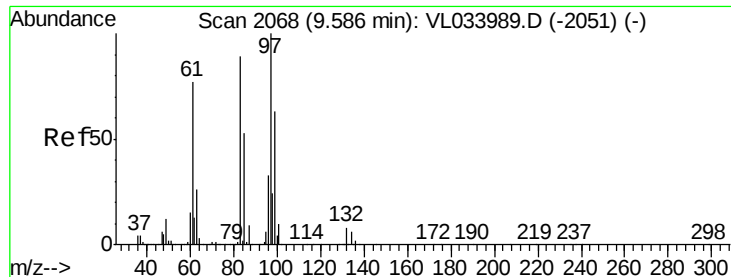
Tot Ion: 75 Resp: 1389599
 Ion Ratio Lower Upper
 75 100
 77 32.2 24.3 36.5



#46
 cis-1,3-Dichloropropene
 Concen: 11.162 ppbv
 RT: 8.79 min Scan# 1822
 Delta R.T. -0.01 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

Tgt Ion: 75 Resp: 1546458
 Ion Ratio Lower Upper
 75 100
 39 62.5 53.8 80.6
 77 30.1 24.5 36.7





#47

1,1,2-Trichloroethane

Concen: 9.394 ppbv

RT: 9.57 min Scan# 2063

Delta R.T. -0.02 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 97 Resp: 1059014

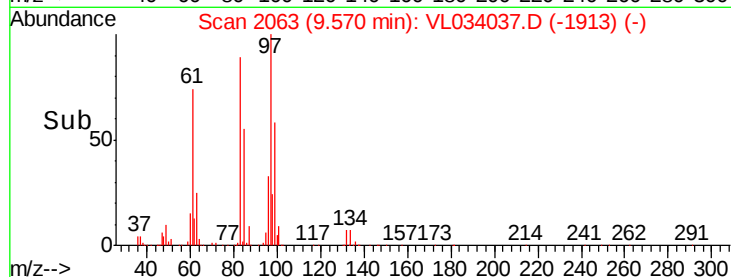
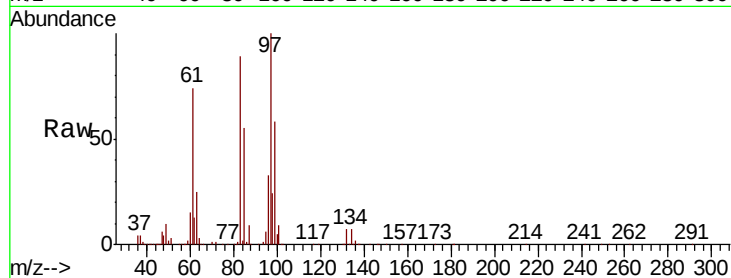
Ion	Ratio	Lower	Upper
97	100		
83	88.9	71.1	106.7
85	54.6	42.6	64.0
99	57.7	50.3	75.5

97 100

83 88.9 71.1 106.7

85 54.6 42.6 64.0

99 57.7 50.3 75.5

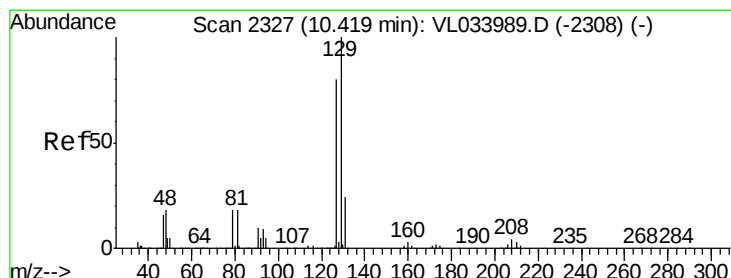
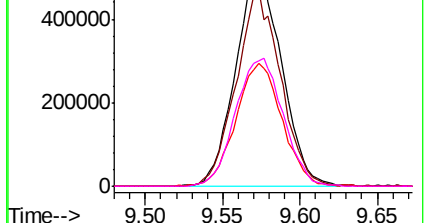


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 8.862 ppbv

RT: 10.41 min Scan# 2324

Delta R.T. -0.01 min

Lab File: VL034037.D

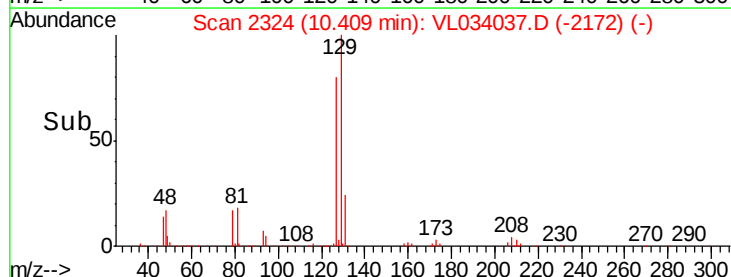
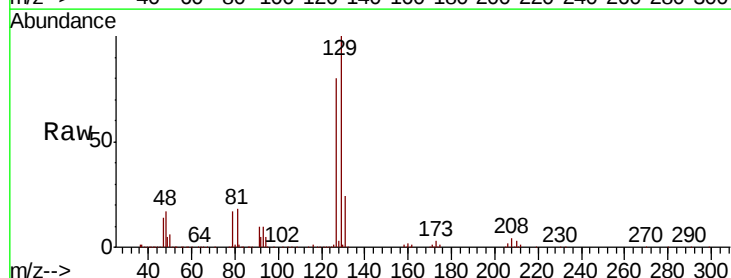
Acq: 17 Jul 2019 17:54

Tgt Ion: 129 Resp: 1906290

Ion	Ratio	Lower	Upper
129	100		
127	79.5	39.1	117.3

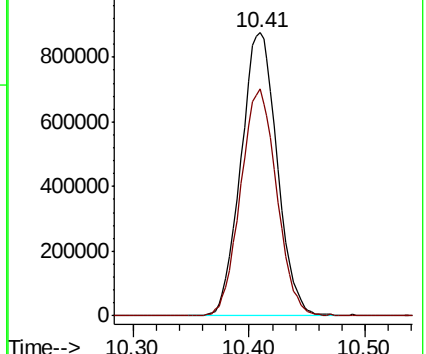
129 100

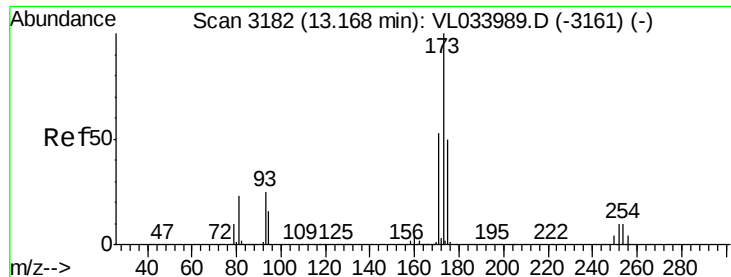
127 79.5 39.1 117.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 9.274 ppbv

RT: 13.15 min Scan# 3178

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

ClientSampleId :

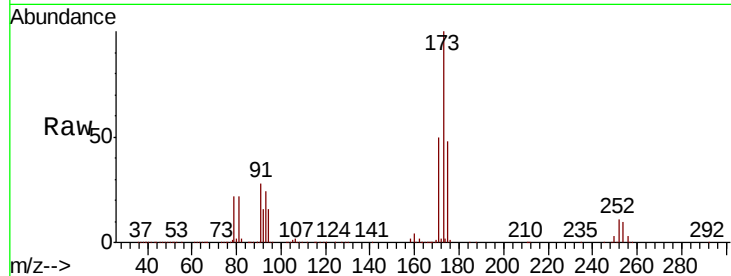
Tot Ion:173 Resp: 1704235

Ion Ratio Lower Upper

173 100

175 50.1 39.3 58.9

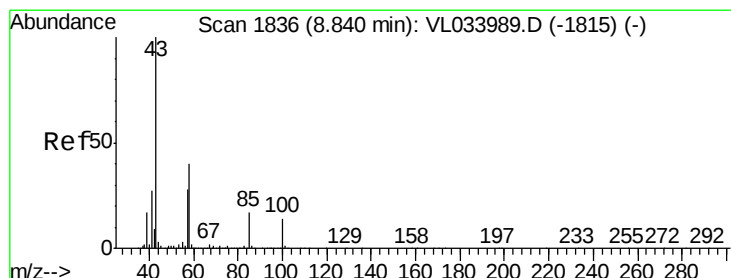
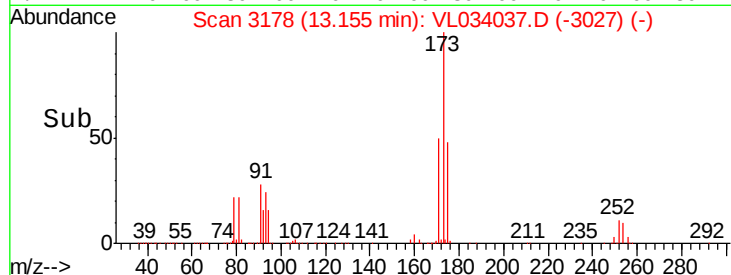
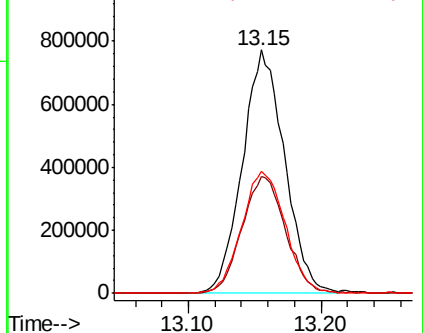
171 52.1 41.4 62.0



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: 10.159 ppbv

RT: 8.83 min Scan# 1833

Delta R.T. -0.01 min

Lab File: VL034037.D

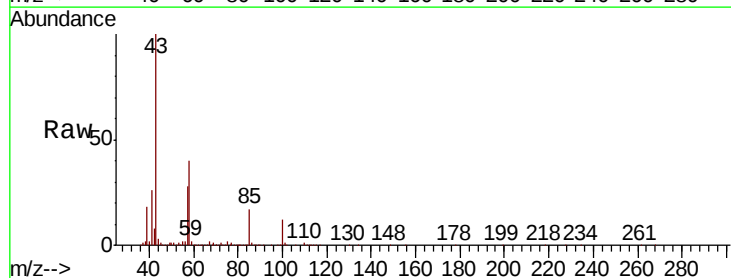
Acq: 17 Jul 2019 17:54

Tgt Ion: 43 Resp: 2458478

Ion Ratio Lower Upper

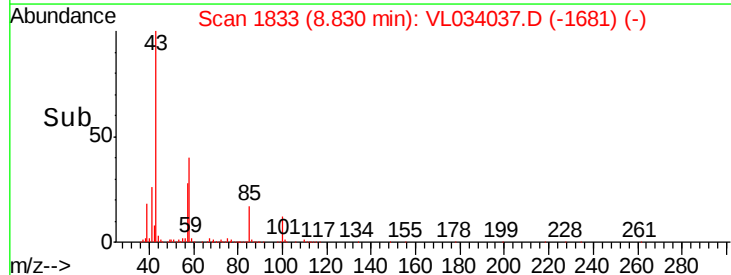
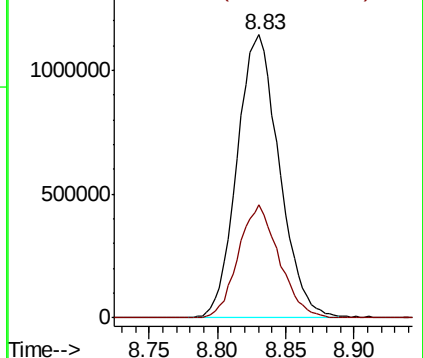
43 100

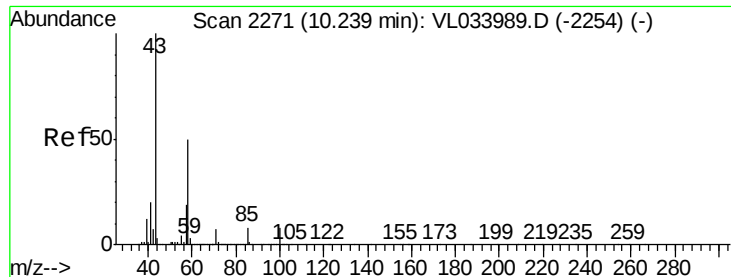
58 38.7 30.3 45.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

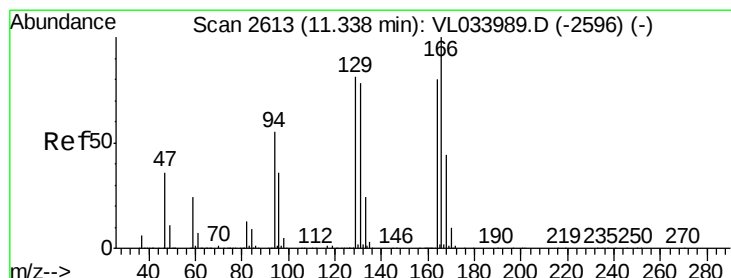
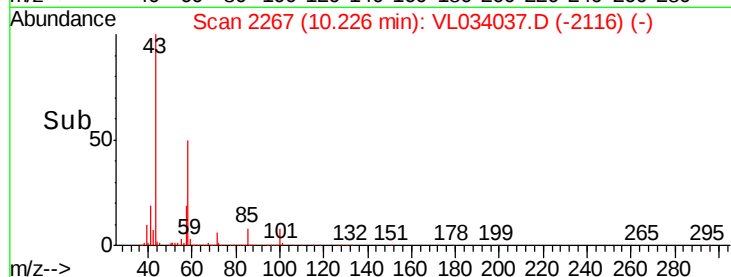
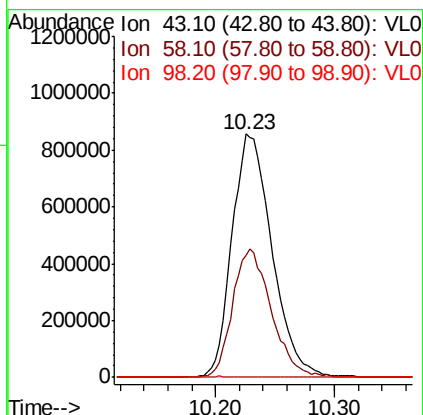
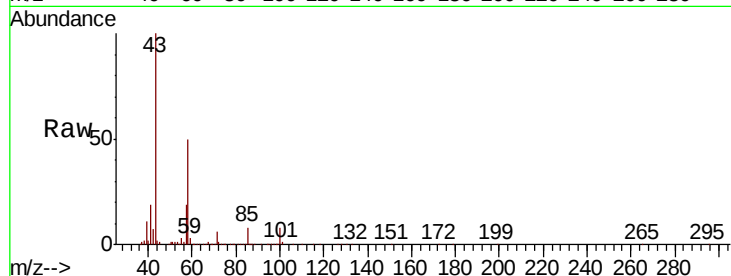




#51
2-Hexanone
Concen: 10.208 ppbv
RT: 10.23 min Scan# 2267
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

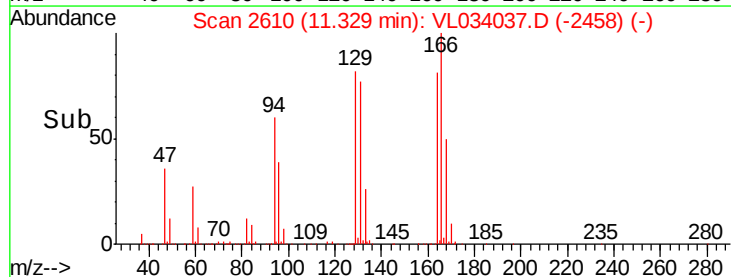
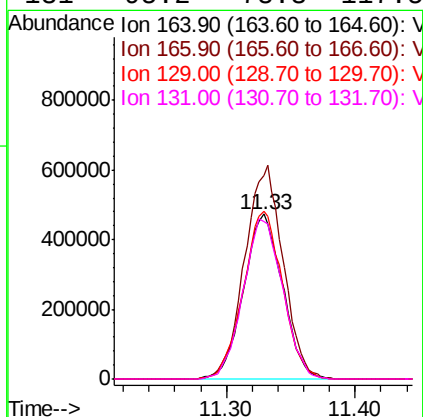
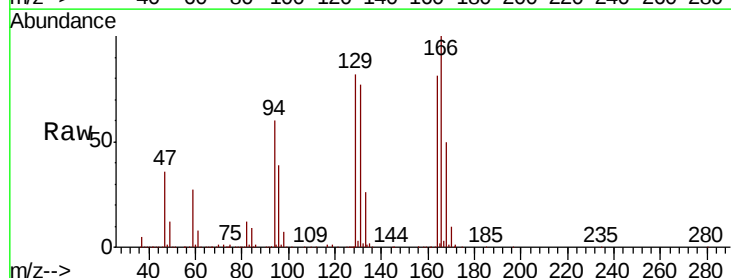
Instrument :
MSVOA_L
ClientSampleId :

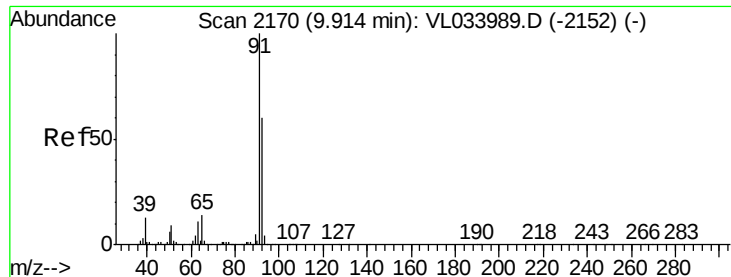
Tot Ion: 43 Resp: 1992355
Ion Ratio Lower Upper
43 100
58 51.1 41.0 61.4
98 0.3 0.2 0.2#



#52
Tetrachloroethene
Concen: 9.581 ppbv
RT: 11.33 min Scan# 2610
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

Tgt Ion: 164 Resp: 994335
Ion Ratio Lower Upper
164 100
166 123.5 100.2 150.2
129 101.6 81.0 121.6
131 95.2 78.3 117.5





#53

Toluene

Concen: 10.885 ppbv

RT: 9.90 min Scan# 2167

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

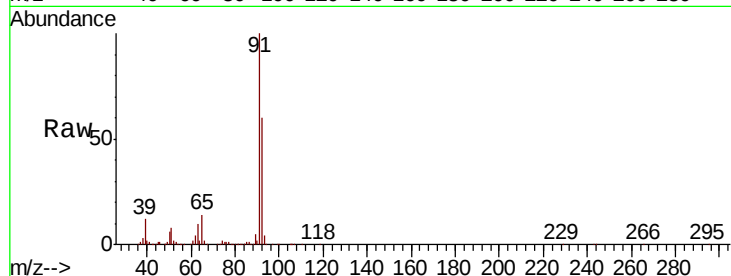
ClientSampleId :

Tot Ion: 91 Resp: 3004262

Ion Ratio Lower Upper

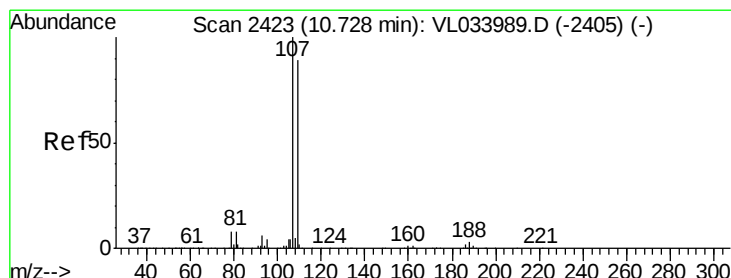
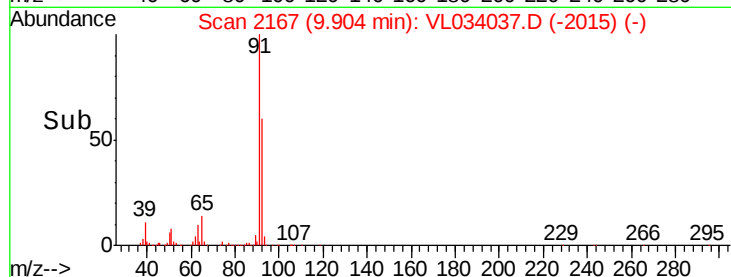
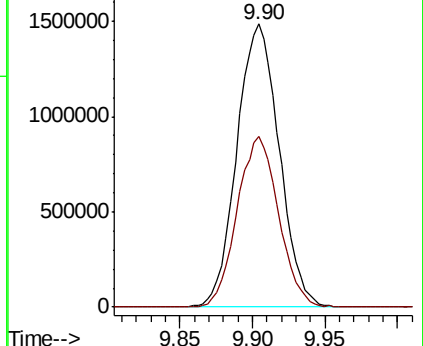
91 100

92 59.2 47.7 71.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 9.842 ppbv

RT: 10.72 min Scan# 2420

Delta R.T. -0.01 min

Lab File: VL034037.D

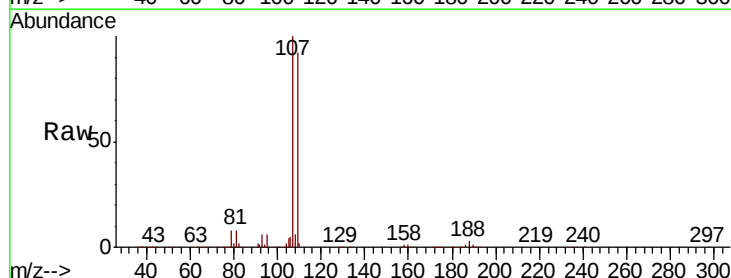
Acq: 17 Jul 2019 17:54

Tgt Ion: 107 Resp: 1637376

Ion Ratio Lower Upper

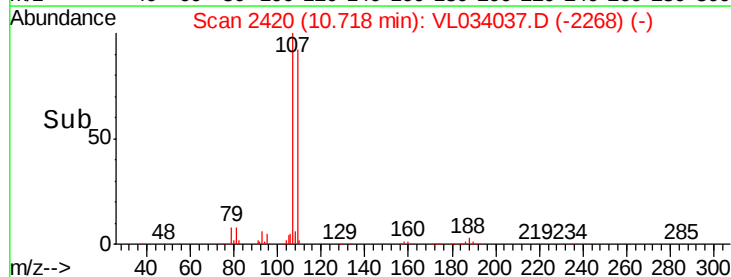
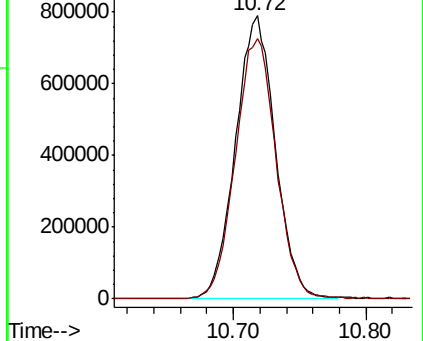
107 100

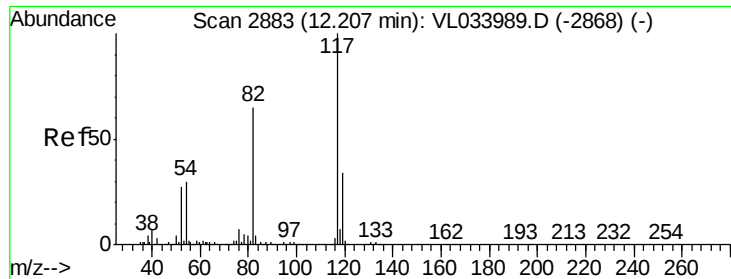
109 91.9 71.5 107.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

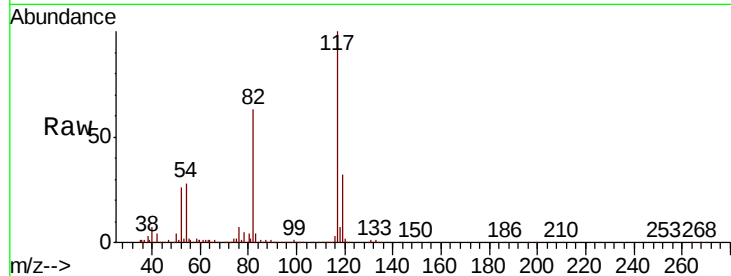




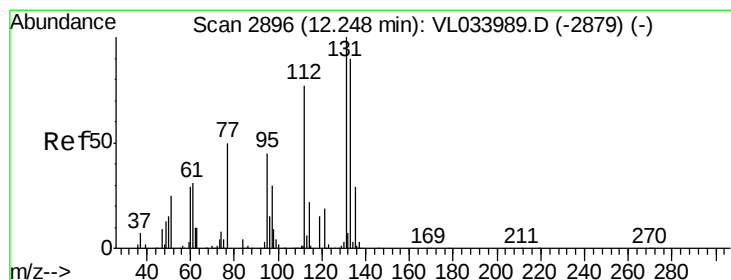
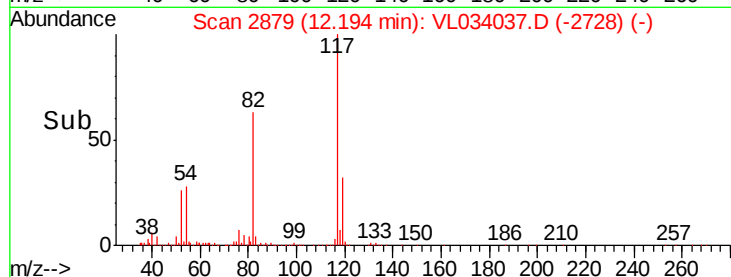
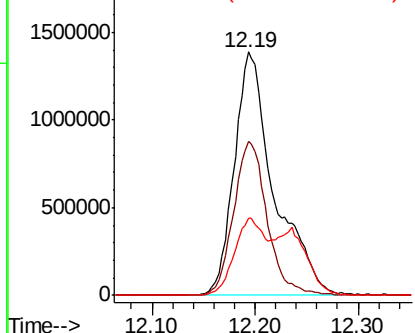
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.19 min Scan# 2879
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3741456
Ion Ratio Lower Upper
117 100
82 53.6 50.8 76.2
119 25.6 24.0 36.0

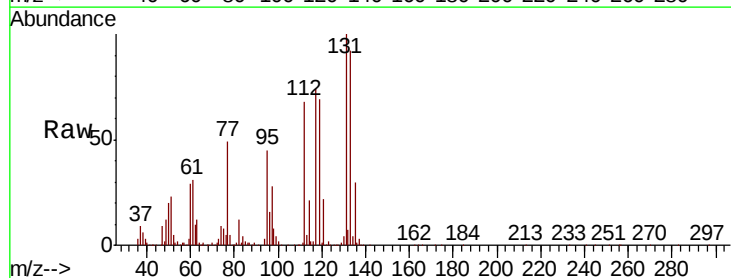


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VLO
Ion 119.10 (118.80 to 119.80): V

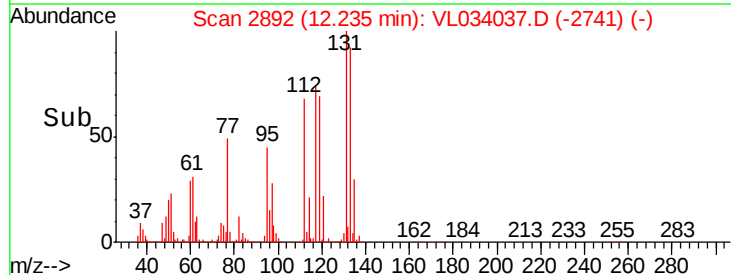
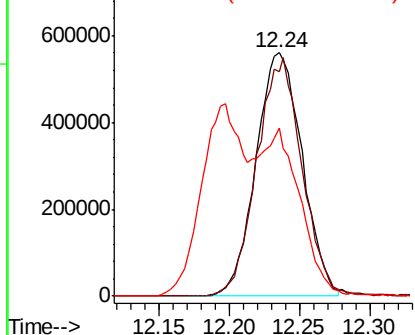


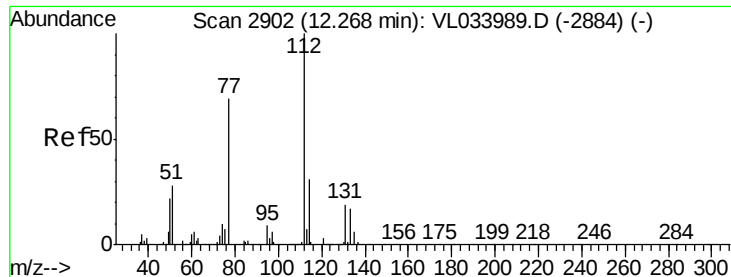
#56
1,1,1,2-Tetrachloroethane
Concen: 7.652 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

Tgt Ion:131 Resp: 1279590
Ion Ratio Lower Upper
131 100
133 96.2 76.2 114.2
119 57.0 43.1 64.7



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: 7.680 ppbv

RT: 12.25 min Scan# 2898

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

ClientSampleId :

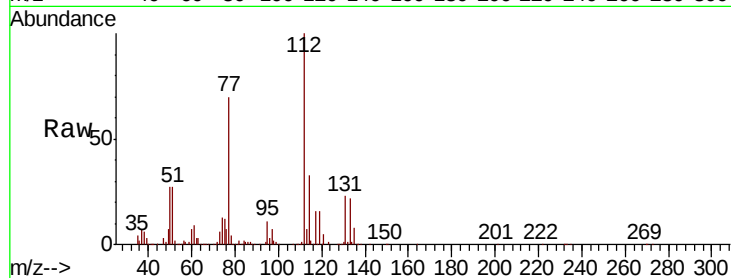
Tot Ion:112 Resp: 2287620

Ion Ratio Lower Upper

112 100

77 69.1 55.9 83.9

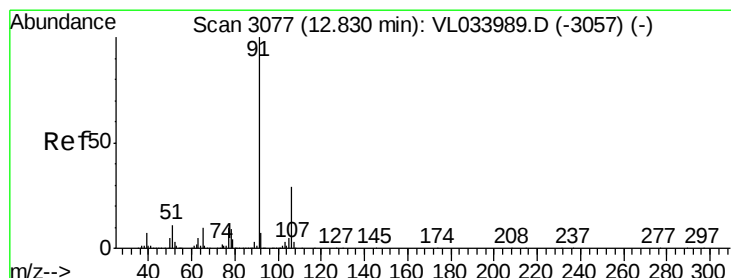
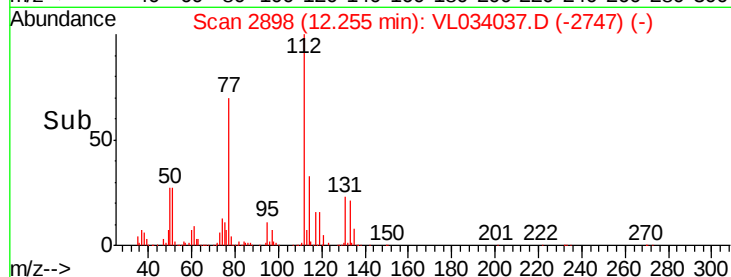
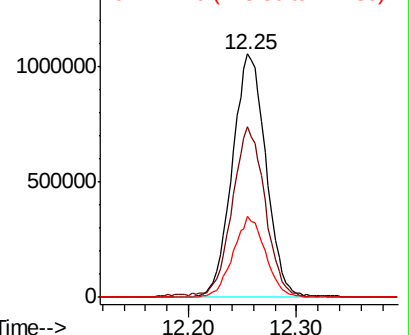
114 33.3 27.6 33.8



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 8.891 ppbv

RT: 12.82 min Scan# 3074

Delta R.T. -0.01 min

Lab File: VL034037.D

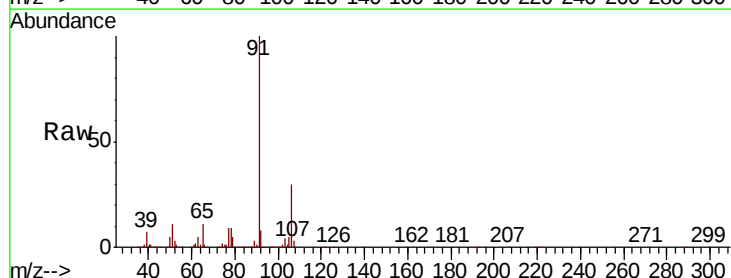
Acq: 17 Jul 2019 17:54

Tgt Ion: 91 Resp: 4000094

Ion Ratio Lower Upper

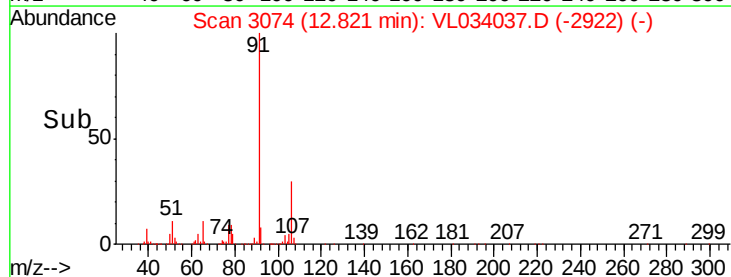
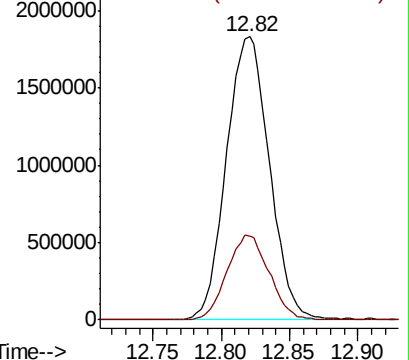
91 100

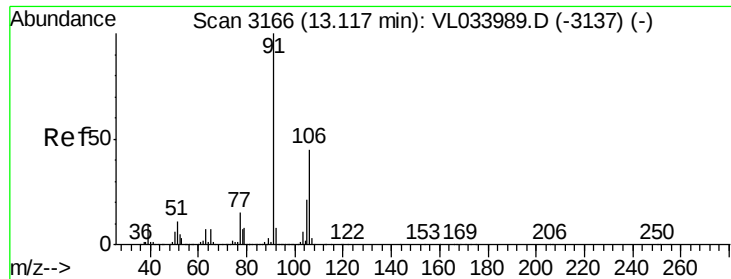
106 29.5 23.3 34.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

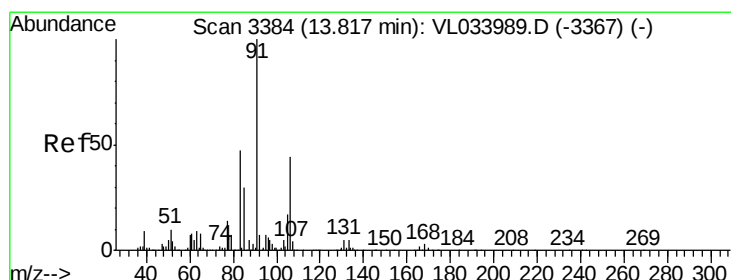
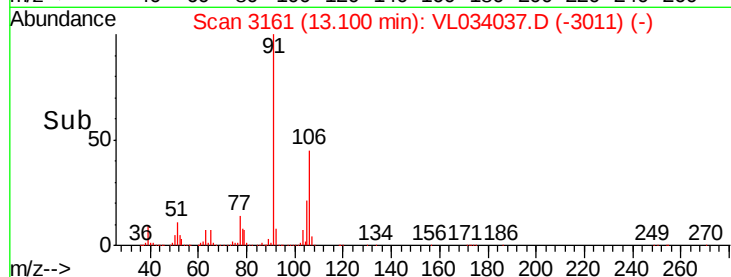
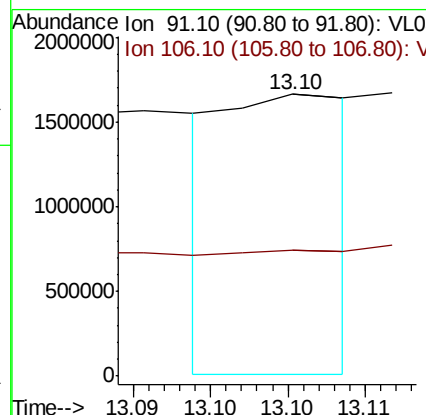
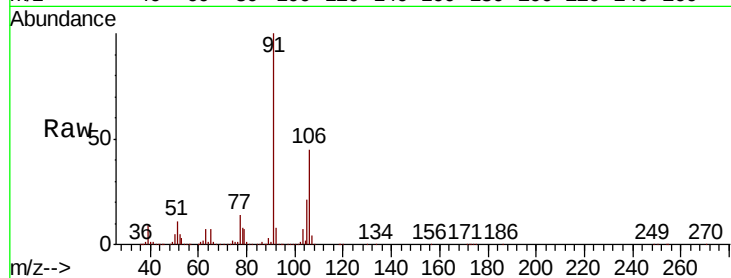




#59
m/p-Xylene
Concen: 2.306 ppbv
RT: 13.10 min Scan# 3161
Delta R.T. -0.02 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

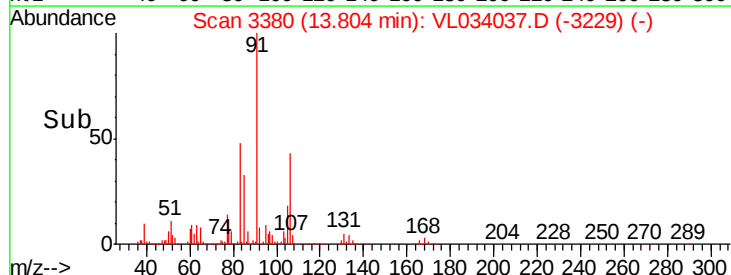
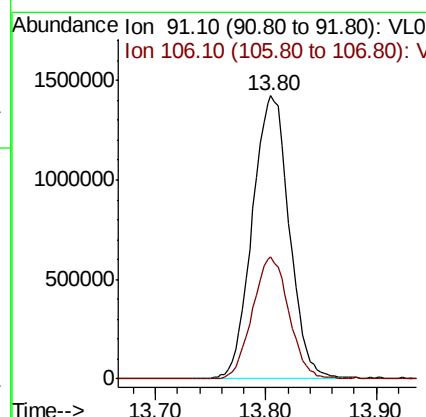
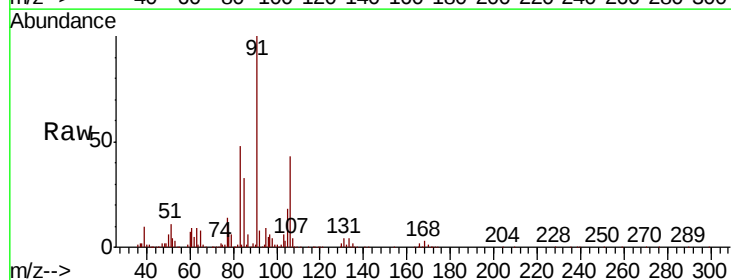
Instrument :
MSVOA_L
ClientSampled :

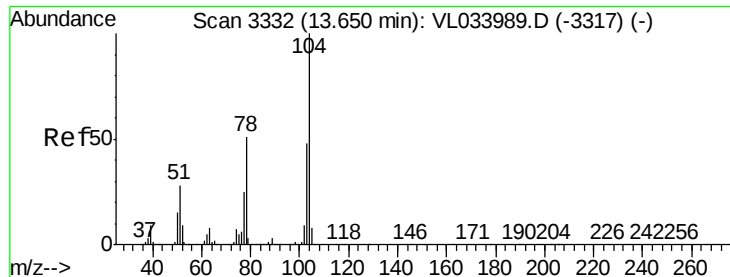
Tot Ion: 91 Resp: 939314
Ion Ratio Lower Upper
91 100
106 0.0 35.7 53.5#



#60
o-Xylene
Concen: 8.099 ppbv
RT: 13.80 min Scan# 3380
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

Tgt Ion: 91 Resp: 3300765
Ion Ratio Lower Upper
91 100
106 42.5 21.9 65.7





#61

Stvrene

Concen: 8.975 ppbv

RT: 13.64 min Scan# 3329

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

ClientSampleId :

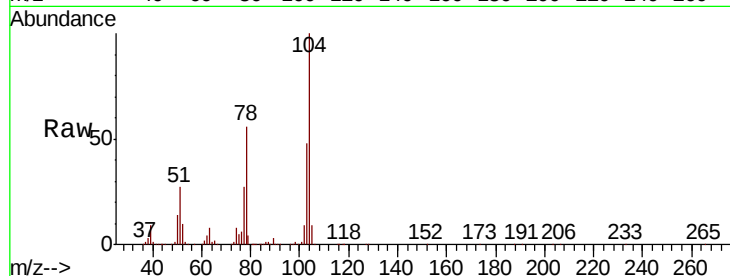
Tot Ion:104 Resp: 2420673

Ion Ratio Lower Upper

104 100

78 54.8 43.9 65.9

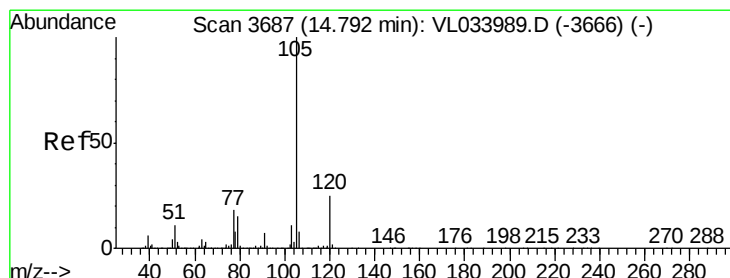
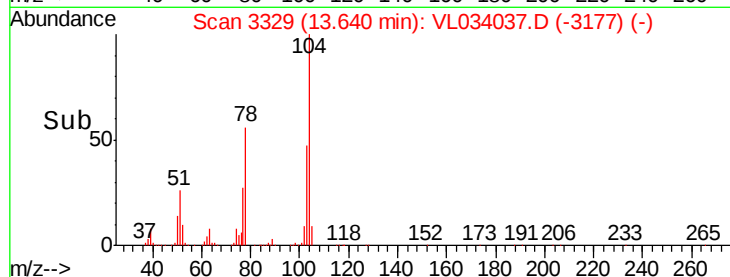
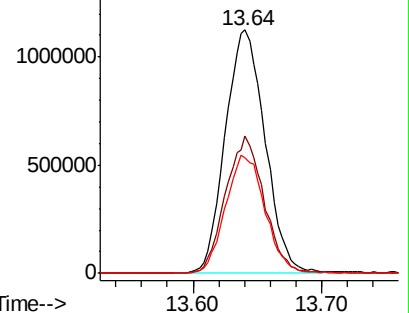
103 48.3 38.1 57.1



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: 6.986 ppbv

RT: 14.78 min Scan# 3683

Delta R.T. -0.01 min

Lab File: VL034037.D

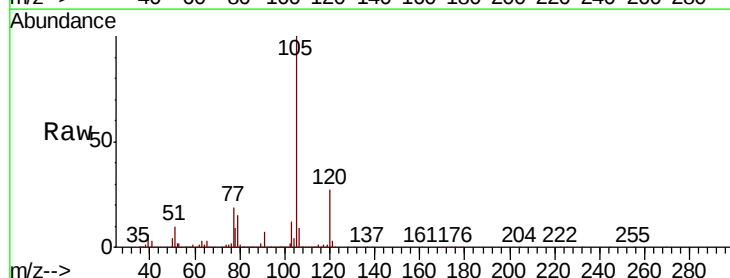
Acq: 17 Jul 2019 17:54

Tgt Ion:105 Resp: 4376510

Ion Ratio Lower Upper

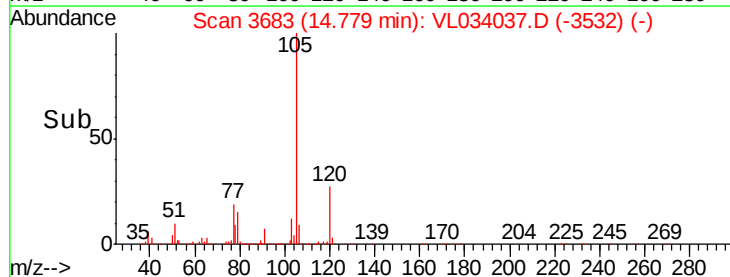
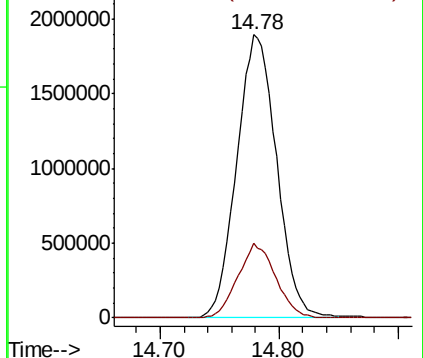
105 100

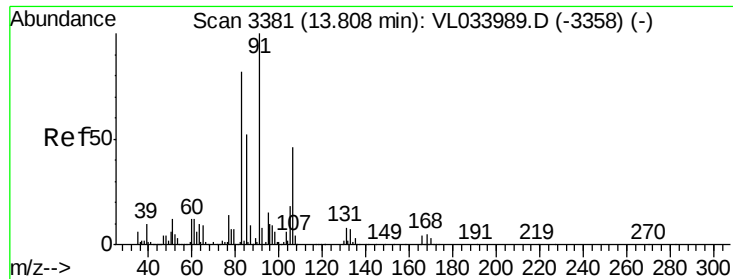
120 25.3 20.4 30.6



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: 7.018 ppbv

RT: 13.79 min Scan# 3376

Delta R.T. -0.02 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

ClientSampleId :

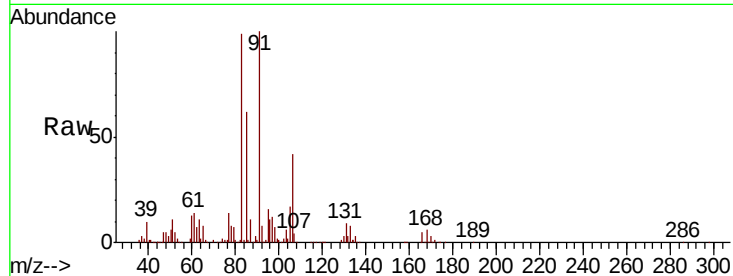
Tot Ion: 83 Resp: 2213964

Ion	Ratio	Lower	Upper
83	100		
131	9.6	5.0	14.9
85	66.2	32.8	98.3

83 100

131 9.6 5.0 14.9

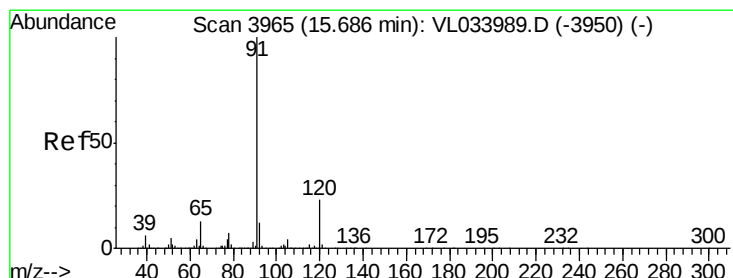
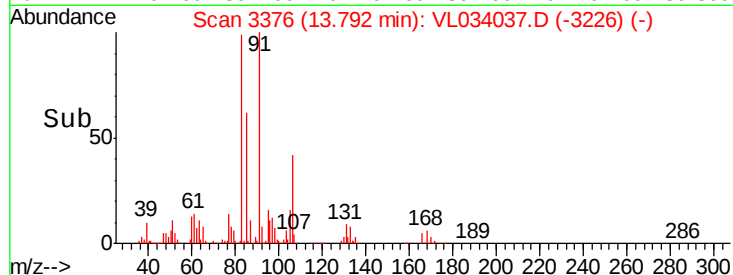
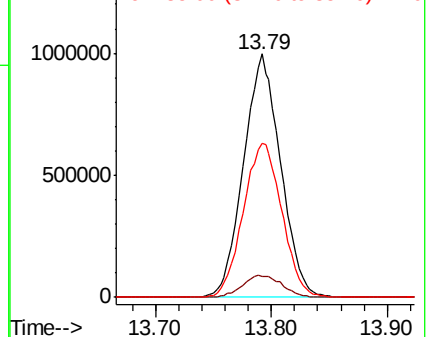
85 66.2 32.8 98.3



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 6.982 ppbv

RT: 15.67 min Scan# 3961

Delta R.T. -0.01 min

Lab File: VL034037.D

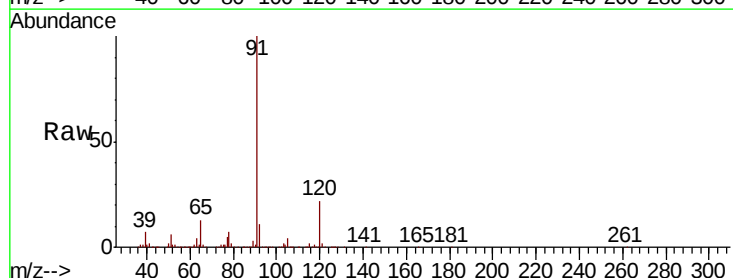
Acq: 17 Jul 2019 17:54

Tgt Ion:120 Resp: 1134374

Ion	Ratio	Lower	Upper
120	100		
91	481.6	386.6	579.8

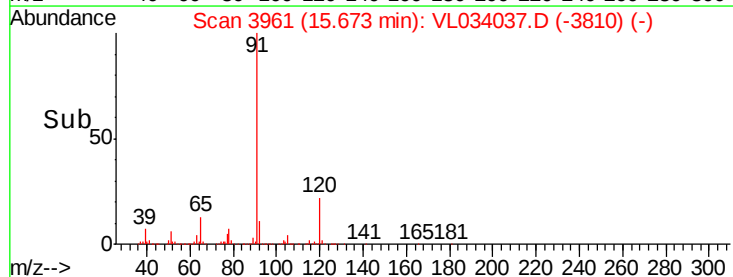
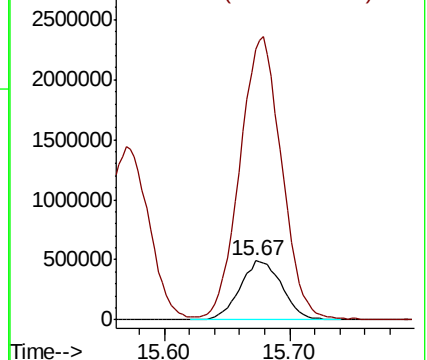
120 100

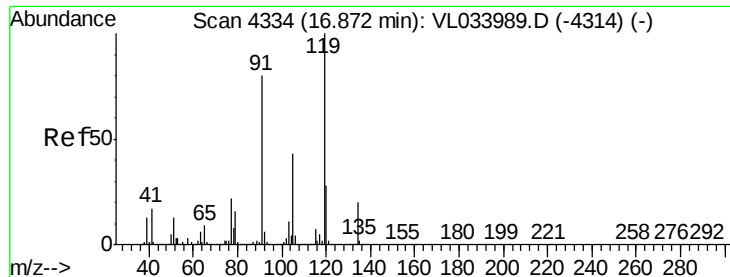
91 481.6 386.6 579.8



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 7.352 ppbv

RT: 16.86 min Scan# 4331

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

ClientSampleId :

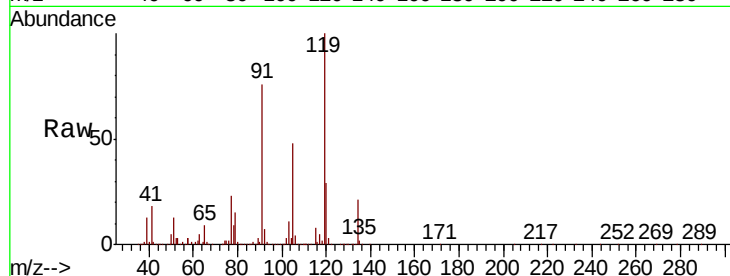
Tot Ion:119 Resp: 3916925

Ion	Ratio	Lower	Upper
119	100		
91	83.7	67.0	100.6
134	19.9	15.8	23.6

119 100

91 83.7 67.0 100.6

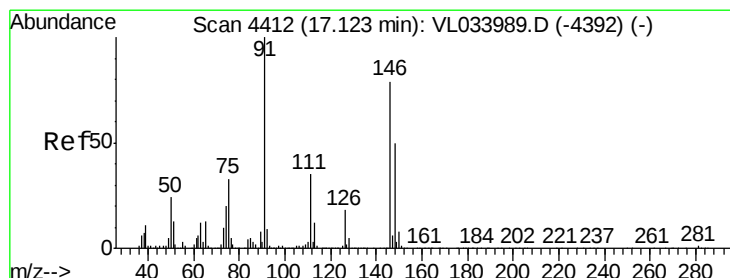
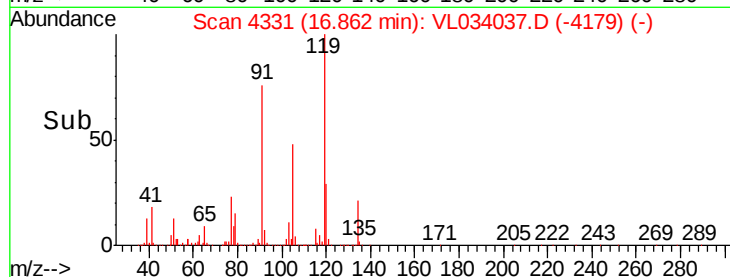
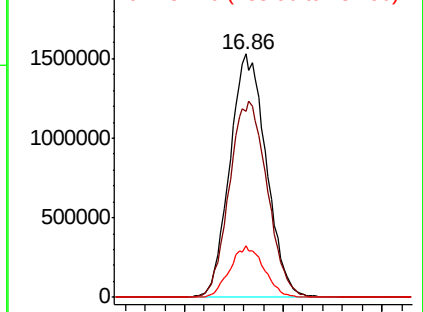
134 19.9 15.8 23.6



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: 8.017 ppbv

RT: 17.11 min Scan# 4408

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

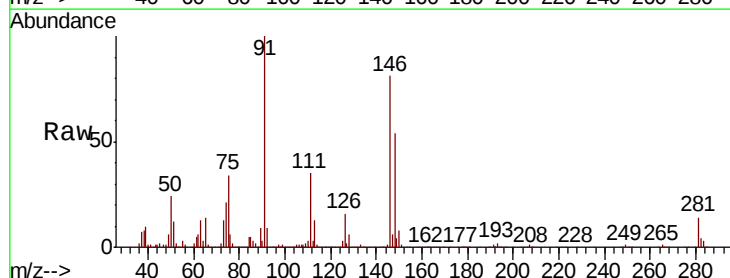
Tgt Ion: 91 Resp: 2185300

Ion	Ratio	Lower	Upper
91	100		
126	17.3	13.9	20.9
128	5.4	4.6	7.0

91 100

126 17.3 13.9 20.9

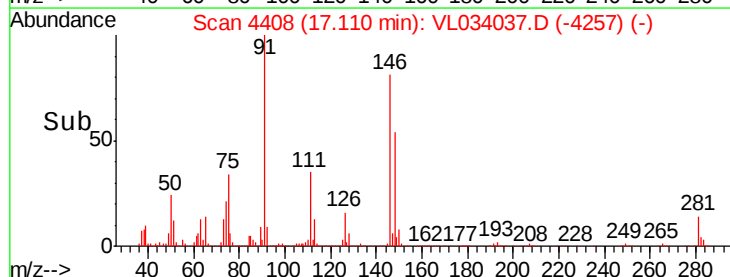
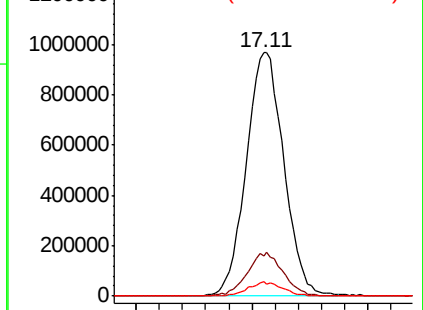
128 5.4 4.6 7.0

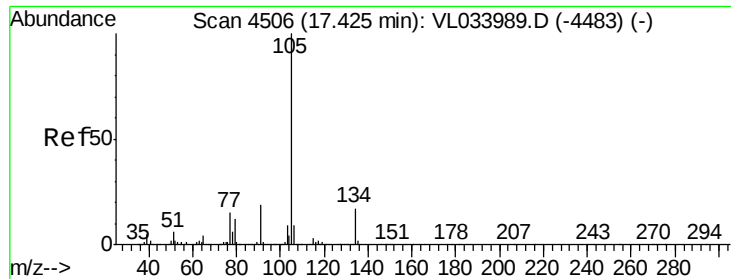


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 7.446 ppbv

RT: 17.41 min Scan# 4502

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

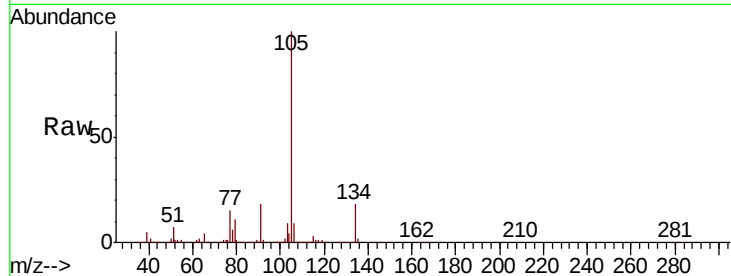
ClientSampleId :

Tot Ion:105 Resp: 5568445

Ion Ratio Lower Upper

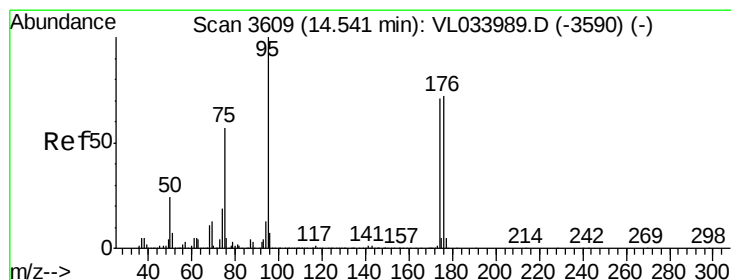
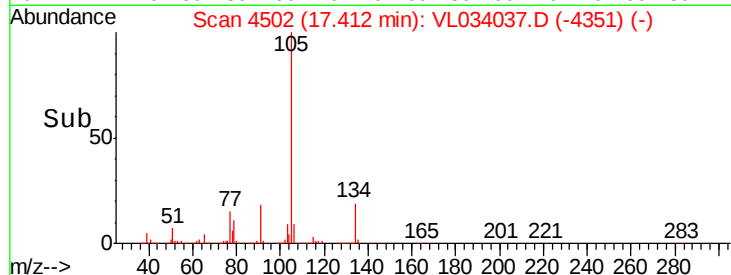
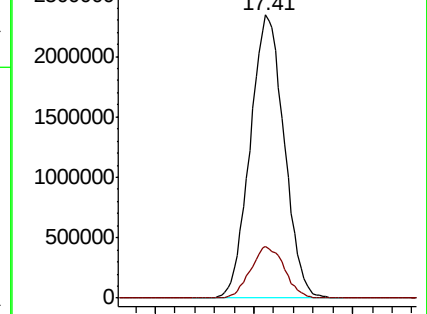
105 100

134 18.2 14.7 22.1



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: 7.483 ppbv

RT: 14.53 min Scan# 3606

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

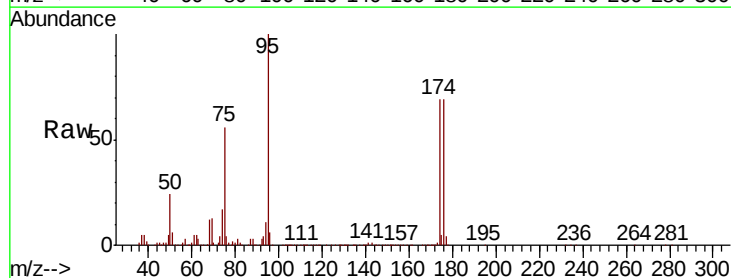
Tgt Ion: 95 Resp: 2387790

Ion Ratio Lower Upper

95 100

174 72.1 60.5 90.7

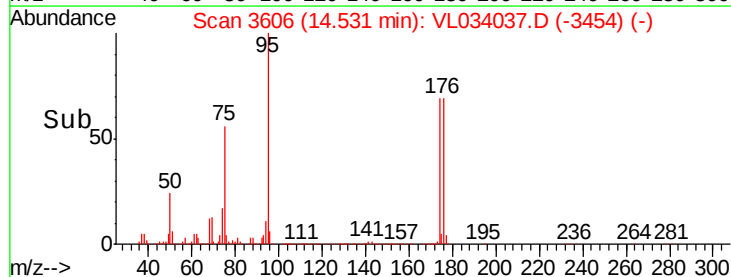
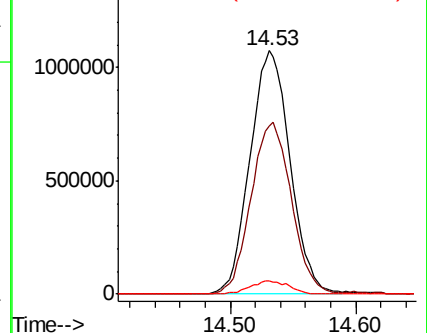
175 5.3 4.0 6.0

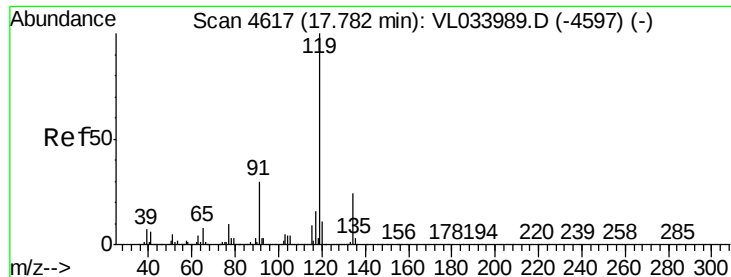


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

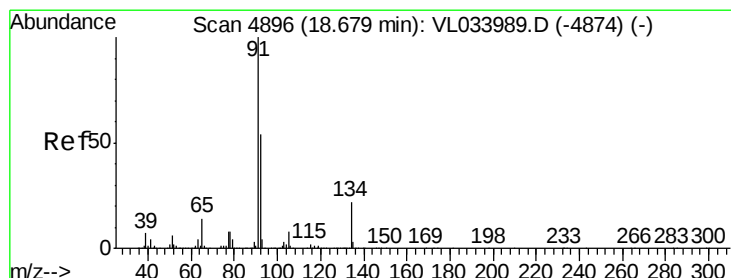
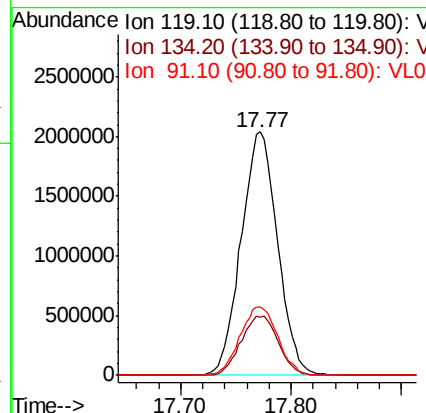
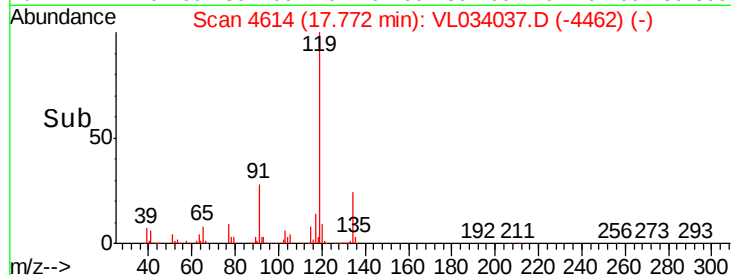
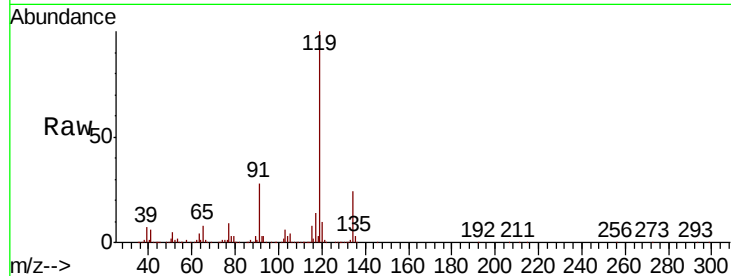




#69
p-Isopropyltoluene
Concen: 7.554 ppbv
RT: 17.77 min Scan# 4614
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

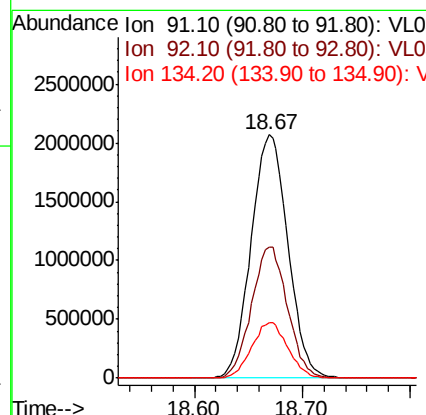
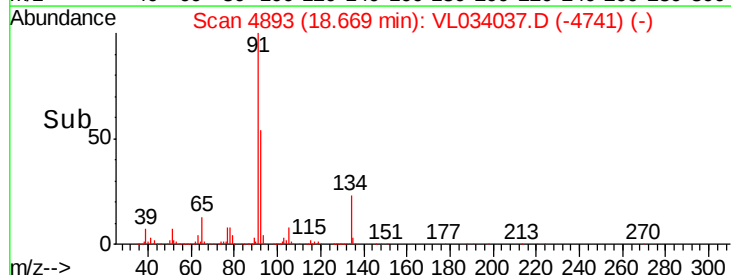
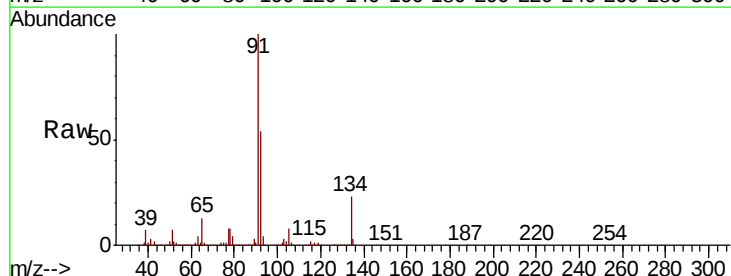
Instrument :
MSVOA_L
ClientSampleId :

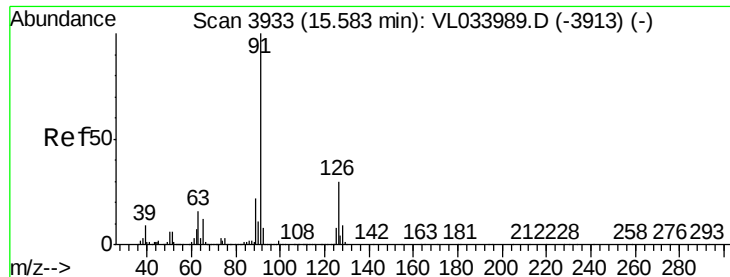
Tot Ion:119 Resp: 4657715
Ion Ratio Lower Upper
119 100
134 25.1 20.1 30.1
91 29.3 23.6 35.4



#70
n-Butylbenzene
Concen: 7.570 ppbv
RT: 18.67 min Scan# 4893
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

Tgt Ion: 91 Resp: 4902889
Ion Ratio Lower Upper
91 100
92 52.6 42.0 63.0
134 22.4 17.9 26.9





#71

2-Chlorotoluene

Concen: 7.235 ppbv

RT: 15.57 min Scan# 3929

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

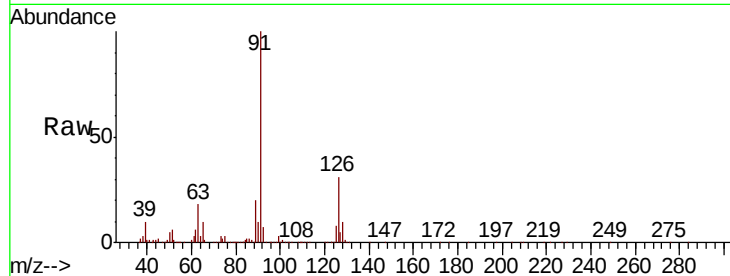
ClientSampleId :

Tot Ion: 91 Resp: 3317213

Ion Ratio Lower Upper

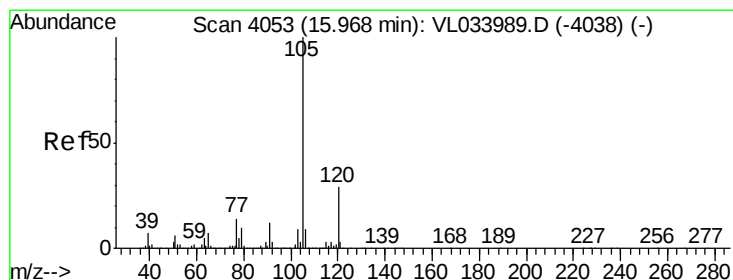
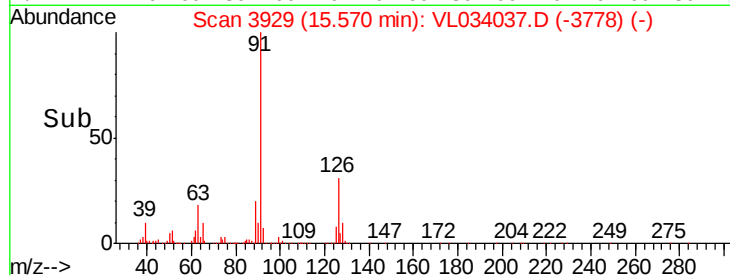
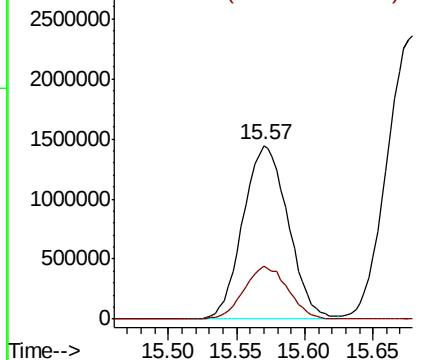
91 100

126 29.8 12.3 49.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 7.410 ppbv

RT: 15.96 min Scan# 4049

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Tgt Ion:105 Resp: 3878411

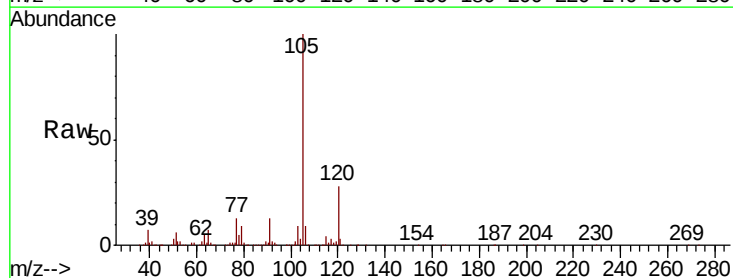
Ion Ratio Lower Upper

105 100

120 28.3 24.1 36.1

91 13.5 10.6 16.0

77 13.9 11.5 17.3

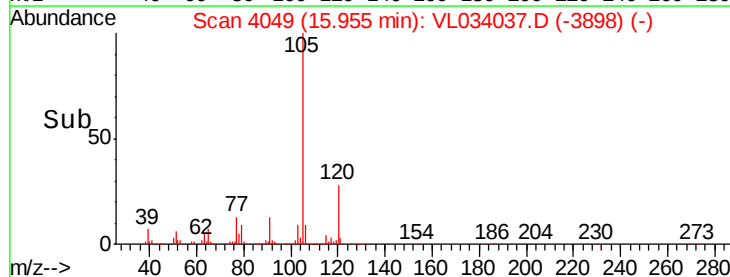
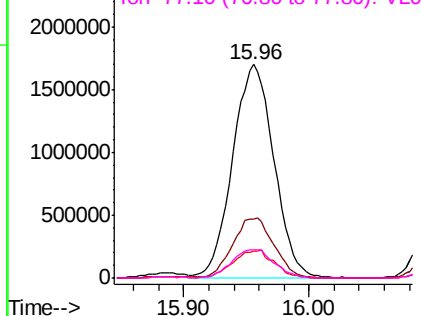


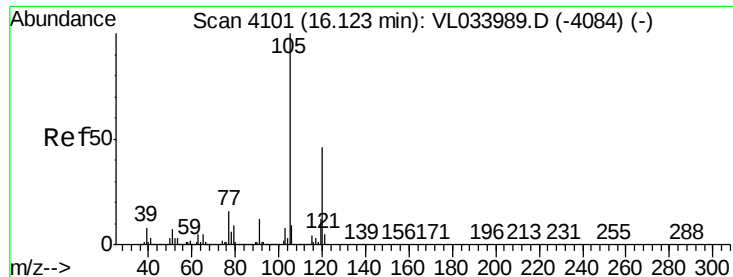
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 7.630 ppbv

RT: 16.11 min Scan# 4097

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

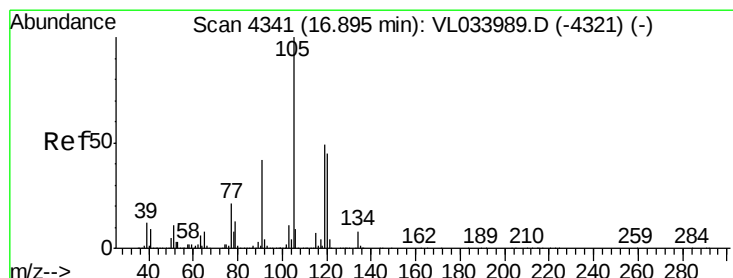
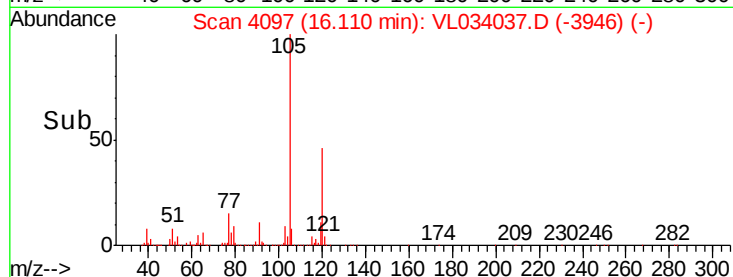
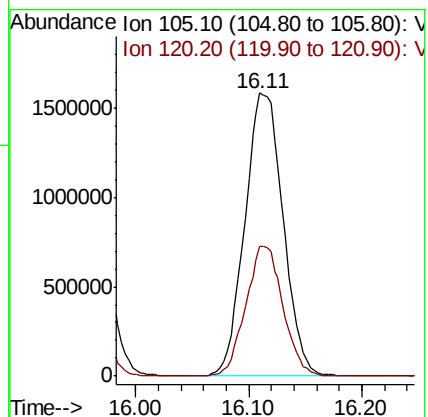
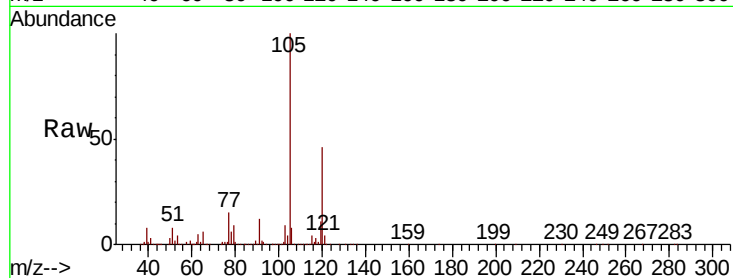
ClientSampleId :

Tot Ion:105 Resp: 3715662

Ion Ratio Lower Upper

105 100

120 45.7 36.4 54.6



#74

1,2,4-Trimethylbenzene

Concen: 7.163 ppbv

RT: 16.88 min Scan# 4337

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Tgt Ion:105 Resp: 3863295

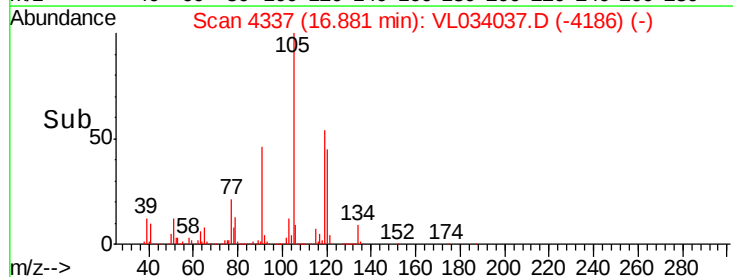
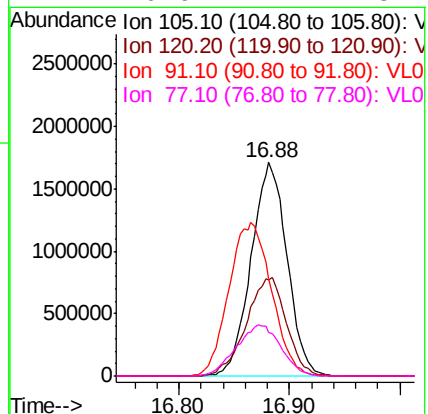
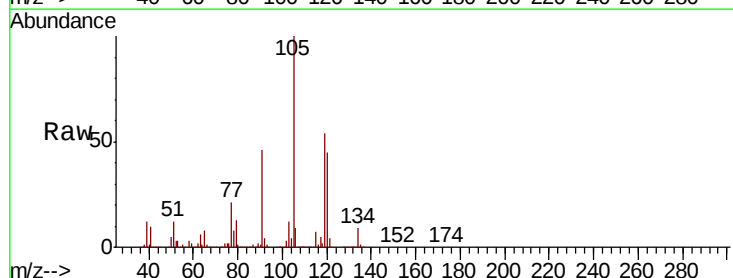
Ion Ratio Lower Upper

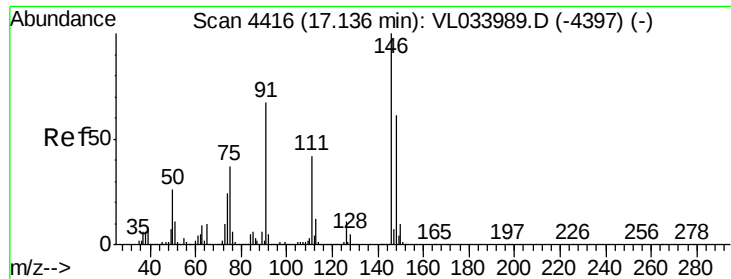
105 100

120 45.0 36.2 54.2

91 45.3 34.3 51.5

77 20.6 17.1 25.7





#75

1,3-Dichlorobenzene

Concen: 6.705 ppbv

RT: 17.12 min Scan# 4411

Delta R.T. -0.02 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

ClientSampleId :

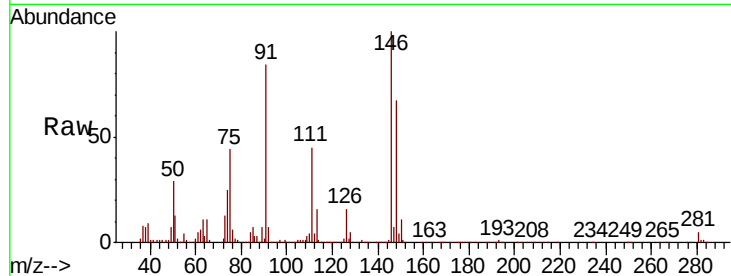
Tot Ion:146 Resp: 2297165

Ion Ratio Lower Upper

146 100

111 45.4 22.3 66.9

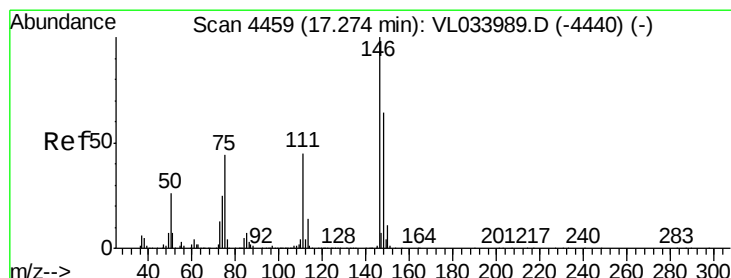
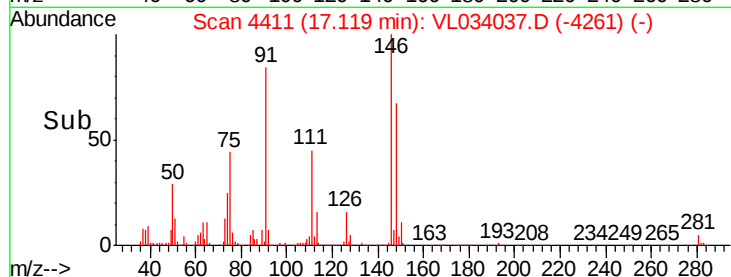
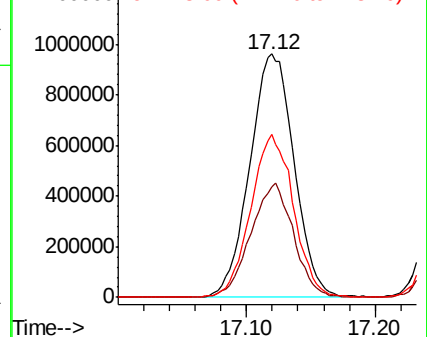
148 64.7 32.0 96.2



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: 7.108 ppbv

RT: 17.26 min Scan# 4455

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

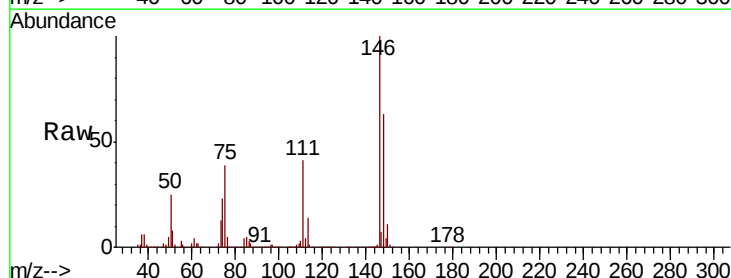
Tgt Ion:146 Resp: 2293559

Ion Ratio Lower Upper

146 100

111 43.4 21.9 65.5

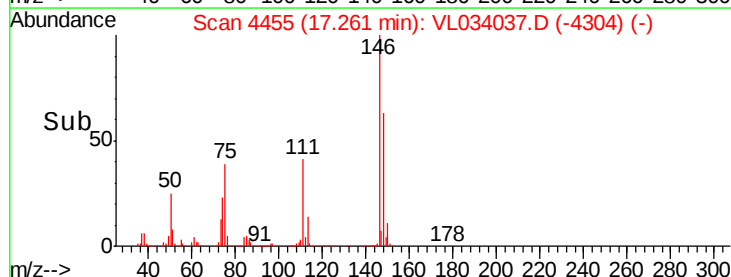
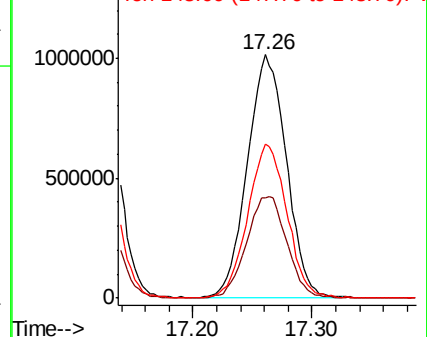
148 64.1 32.5 97.5

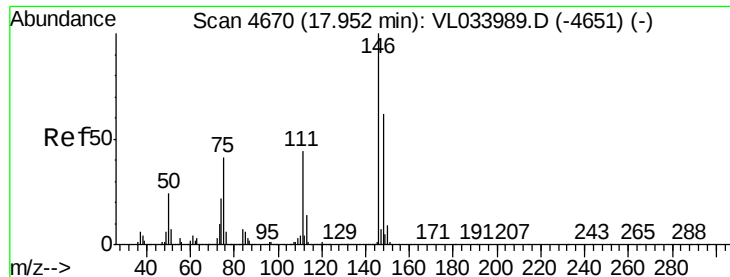


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 6.999 ppbv

RT: 17.94 min Scan# 4667

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

ClientSampleId :

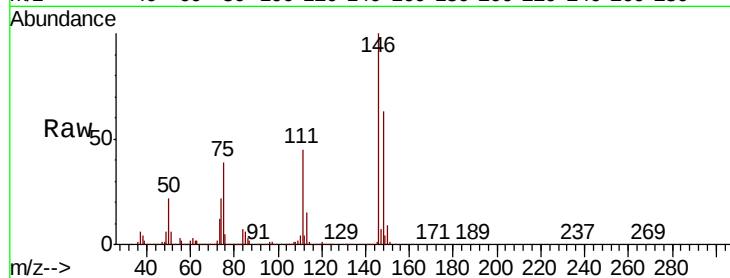
Tot Ion:146 Resp: 2220340

Ion Ratio Lower Upper

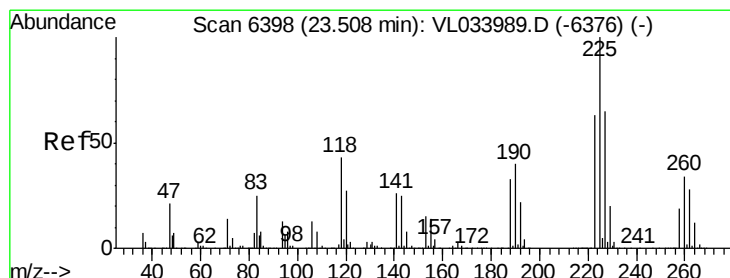
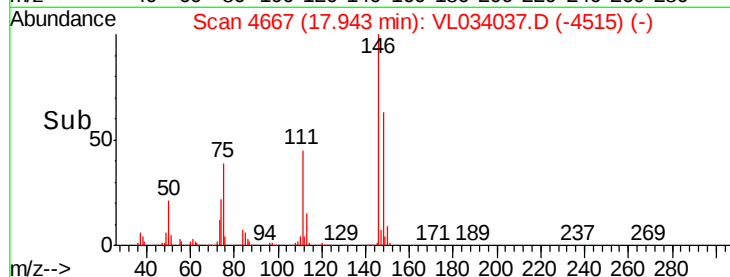
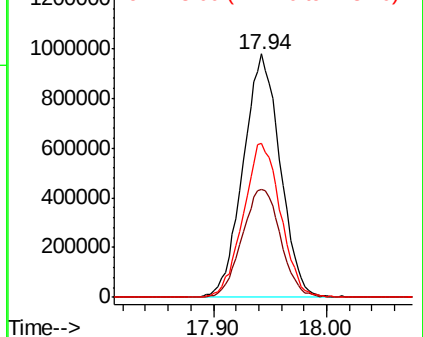
146 100

111 46.5 22.7 68.1

148 63.8 32.1 96.3



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



#78

Hexachloro-1,3-Butadiene

Concen: 7.061 ppbv

RT: 23.50 min Scan# 6394

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

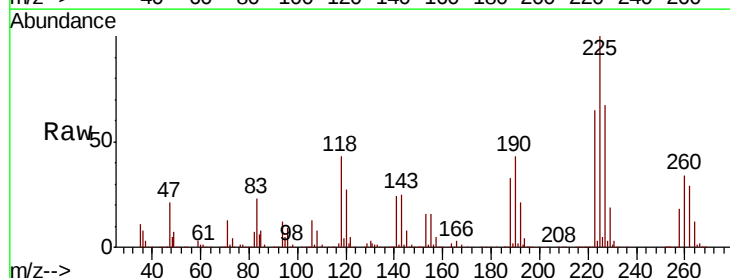
Tgt Ion:225 Resp: 1906207

Ion Ratio Lower Upper

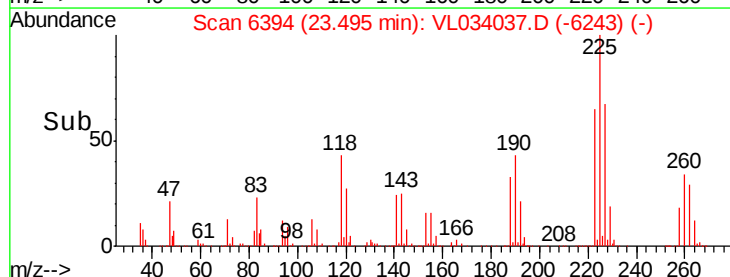
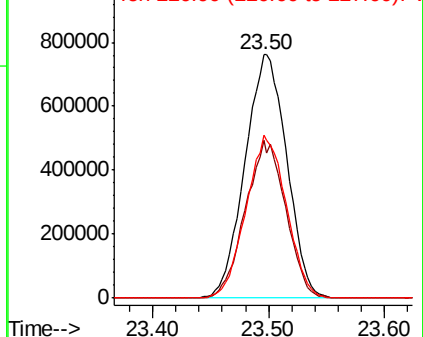
225 100

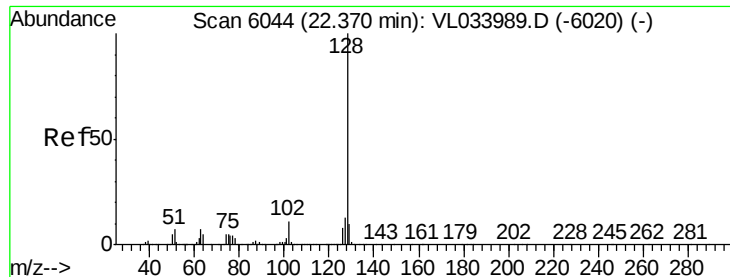
223 62.5 51.5 77.3

227 64.5 52.1 78.1



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: 9.259 ppbv

RT: 22.35 min Scan# 6039

Delta R.T. -0.02 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

ClientSampleId :

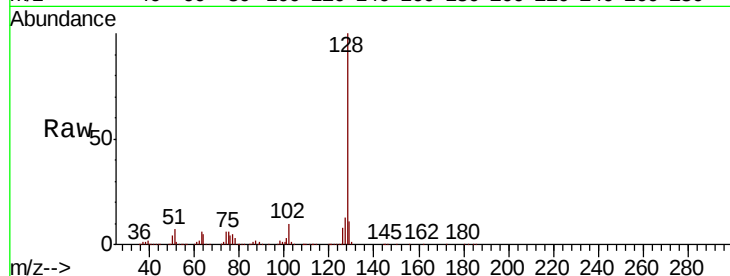
Tot Ion:128 Resp: 4198683

Ion Ratio Lower Upper

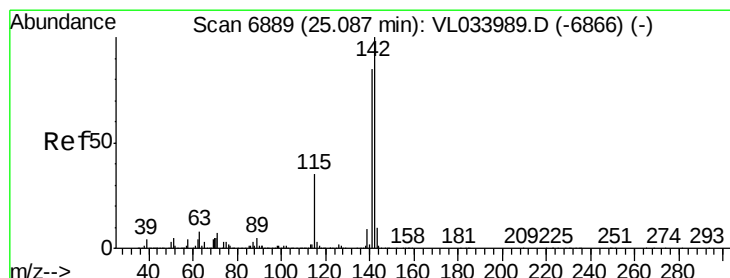
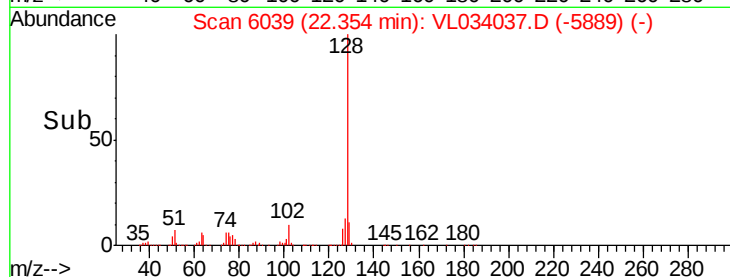
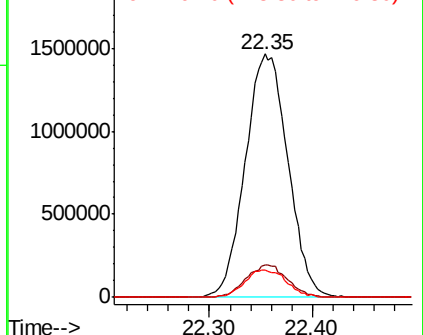
128 100

127 13.5 10.6 15.8

129 11.3 8.3 12.5



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: 6.145 ppbv

RT: 25.07 min Scan# 6885

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

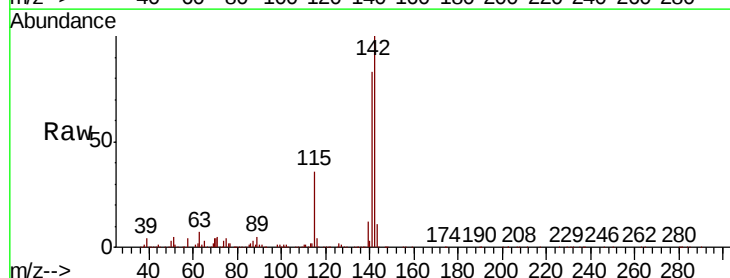
Tgt Ion:142 Resp: 1014083

Ion Ratio Lower Upper

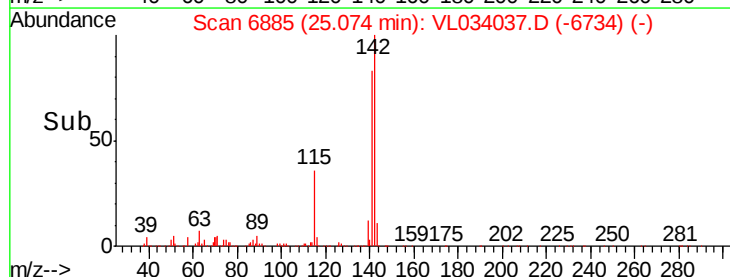
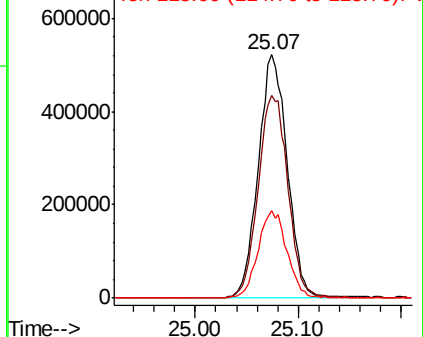
142 100

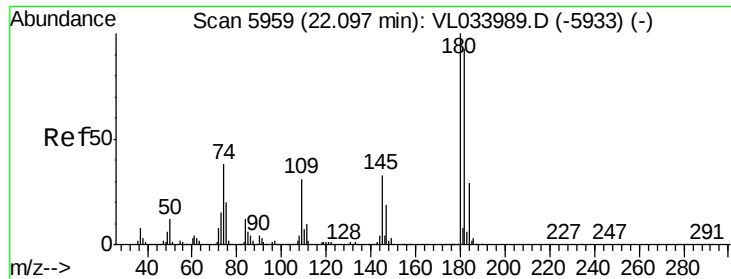
141 86.3 68.2 102.2

115 36.3 29.9 44.9



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

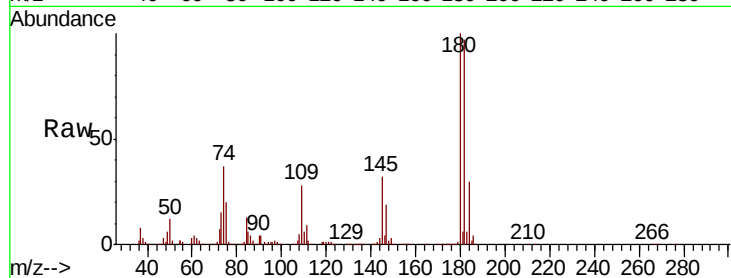




#81
 1,2,4-Trichlorobenzene
 Concen: 8.254 ppbv
 RT: 22.08 min Scan# 5955
 Delta R.T. -0.01 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:180 Resp: 2403894
 Ion Ratio Lower Upper
 180 100
 182 96.6 76.6 114.8
 184 31.0 24.6 36.8



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

