

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121718\
 Data File : VL032999.D
 Acq On : 17 Dec 2018 15:11
 Operator : SY/AP
 Sample : VL1217ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 18 01:15:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 07 09:35:17 2018
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1201216	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2859880	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	4032206	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2480573	8.33	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	83.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	1764543	11.004	ppbv 99
3) Chlorodifluoromethane	3.02	51	905907	9.958	ppbv 100
4) Chloromethane	3.17	50	517711	9.775	ppbv 96
5) Vinyl Chloride	3.30	62	537130	9.967	ppbv 99
6) Bromomethane	3.52	94	358664	10.641	ppbv 98
7) Chloroethane	3.61	64	203656	10.544	ppbv 100
8) Dichlorotetrafluoroethane	3.23	85	1366238	10.252	ppbv 98
9) Propene	3.04	41	366045	10.176	ppbv 100
10) Heptane	8.26	43	1074641	7.953	ppbv 100
11) Trichlorofluoromethane	4.01	101	1559811	10.324	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1065492	8.266	ppbv 99
13) Ethanol	3.65	45	87521	7.066	ppbv 98
14) Bromoethene	3.80	108	464183	10.846	ppbv 100
15) Acetone	3.91	43	972641	9.434	ppbv 99
16) 1,3-Butadiene	3.37	39	418502	10.231	ppbv 91
17) tert-Butyl alcohol	4.36	59	246296	9.383	ppbv # 82
18) 1,1-Dichloroethene	4.36	96	486371	9.634	ppbv 99
19) Isopropyl Alcohol	4.03	45	641909	9.914	ppbv # 99
20) Methylene Chloride	4.42	84	418187	8.299	ppbv 98
21) Allyl Chloride	4.48	41	745789	8.876	ppbv 99
22) trans-1,2-Dichloroethene	4.97	96	644493	10.287	ppbv 99
23) Vinyl Acetate	5.16	43	1938844	11.107	ppbv 99
24) 1,1-Dichloroethane	5.10	63	1478212	9.738	ppbv 99
25) Ethyl Acetate	5.78	43	2406144	9.879	ppbv 100
26) Hexane	5.79	57	1106421	9.839	ppbv 99
27) Carbon Disulfide	4.63	76	1216784	8.654	ppbv 99
28) Methyl tert-Butyl Ether	5.12	73	1847252	10.938	ppbv 99
29) Chloroform	5.86	83	1878772	9.364	ppbv 96
30) Cyclohexane	7.26	84	928945	9.967	ppbv 98
31) cis-1,2-Dichloroethene	5.65	61	1133490	10.985	ppbv 98
32) 1,1,1-Trichloroethane	6.63	97	1929255	9.087	ppbv 99
34) 2-Butanone	5.34	43	1469522	11.797	ppbv 100
35) Carbon Tetrachloride	7.14	117	2106421	9.371	ppbv 98
36) Benzene	7.02	78	2151766	10.229	ppbv 100
37) 1,2-Dichloroethane	6.42	62	1436660	10.031	ppbv 99
38) Trichloroethene	7.97	130	852974	9.744	ppbv 98
39) 1,2-Dichloropropane	7.75	63	752816	9.437	ppbv 98
40) 1,4-Dioxane	7.97	88	266803	9.080	ppbv # 94
41) Tetrahydrofuran	6.16	42	835091	10.779	ppbv 99
42) Bromodichloromethane	7.93	83	1793302	9.038	ppbv 100
43) Methyl Methacrylate	8.15	69	763128	9.791	ppbv 98

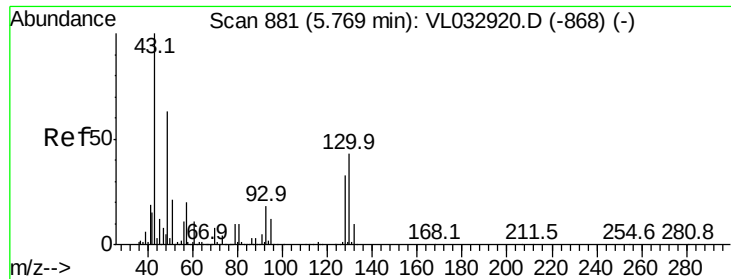
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121718\
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Quant Time: Dec 18 01:15:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 07 09:35:17 2018
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	3349862	9.382	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	1202832	12.586	ppbv	98
46) cis-1,3-Dichloropropene	8.85	75	1359416	11.622	ppbv	96
47) 1,1,2-Trichloroethane	9.63	97	902135	10.274	ppbv	97
48) Dibromochloromethane	10.46	129	1375098	8.348	ppbv	99
49) Bromoform	13.22	173	1521590	11.231	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	2059492	10.339	ppbv	100
51) 2-Hexanone	10.28	43	1276556	9.449	ppbv	99
52) Tetrachloroethene	11.38	164	936386	12.238	ppbv	97
53) Toluene	9.96	91	2006965	8.996	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1114812	8.127	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.29	131	1436767	7.992	ppbv	99
57) Chlorobenzene	12.32	112	2305528	7.917	ppbv	99
58) Ethyl Benzene	12.88	91	4039979	9.392	ppbv	100
59) m/p-Xylene	13.16	91	834947	2.141	ppbv #	100
60) o-Xylene	13.86	91	3324204	8.441	ppbv	99
61) Styrene	13.70	104	2454755	9.370	ppbv	100
62) Isopropylbenzene	14.84	105	4763689	8.670	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.85	83	2285245	7.473	ppbv	100
64) n-propylbenzene	15.74	120	1219069	8.542	ppbv	98
65) tert-Butylbenzene	16.92	119	4393835	8.626	ppbv	100
66) Benzyl Chloride	17.17	91	2573731	9.116	ppbv	99
67) sec-Butylbenzene	17.47	105	6130958	8.164	ppbv	100
69) p-Isopropyltoluene	17.83	119	4508677	7.408	ppbv	100
70) n-Butylbenzene	18.73	91	4490748	8.020	ppbv	100
71) 2-Chlorotoluene	15.63	91	3536589	8.655	ppbv	100
72) 4-Ethyltoluene	16.01	105	3936759	8.954	ppbv	100
73) 1,3,5-Trimethylbenzene	16.17	105	3811902	8.881	ppbv	99
74) 1,2,4-Trimethylbenzene	16.94	105	3965719	8.182	ppbv #	91
75) 1,3-Dichlorobenzene	17.18	146	2261588	7.924	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2179540	8.184	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	1921707	7.210	ppbv	100
78) Hexachloro-1,3-Butadiene	23.56	225	1104568	7.536	ppbv	99
79) Naphthalene	22.43	128	2691068	8.599	ppbv	98
80) Naphthalene, 2-methyl-	25.13	142	636971	9.526	ppbv	100
81) 1,2,4-Trichlorobenzene	22.15	180	1341013	8.080	ppbv	98

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_L

ClientSampleId :

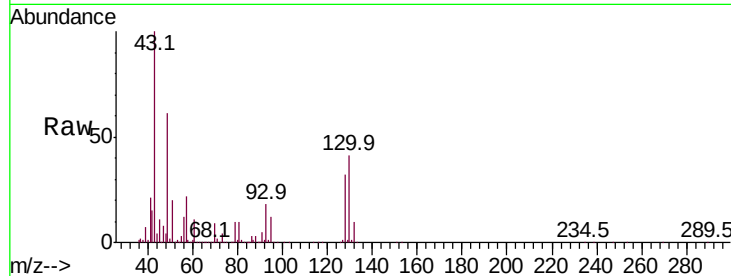
Tot Ion: 49 Resp: 1201216

Ion Ratio Lower Upper

49 100

128 52.7 26.3 78.8

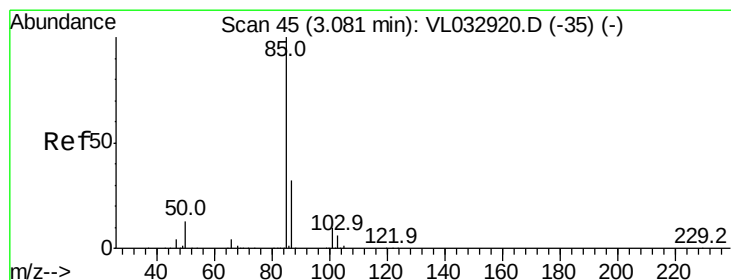
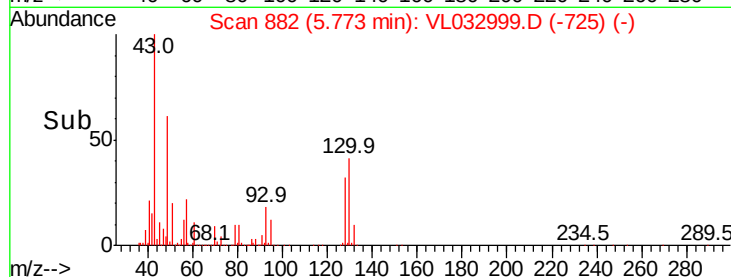
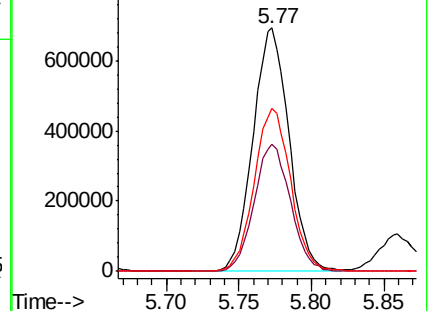
130 67.9 33.9 101.7



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



#2

Dichlorodifluoromethane

Concen: 11.004 ppbv

RT: 3.08 min Scan# 45

Delta R.T. 0.00 min

Lab File: VL032999.D

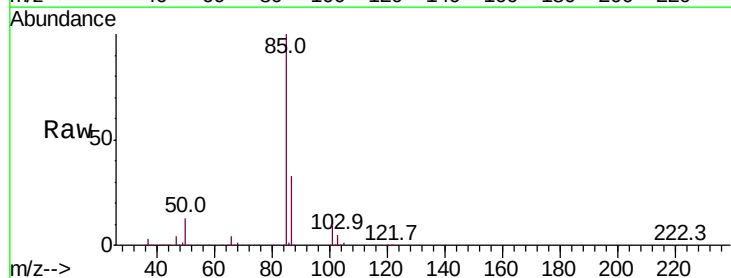
Acq: 17 Dec 2018 15:11

Tgt Ion: 85 Resp: 1764543

Ion Ratio Lower Upper

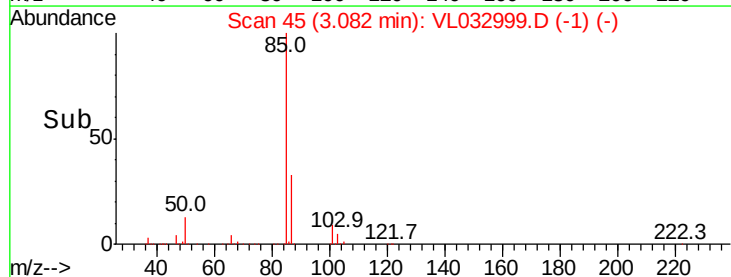
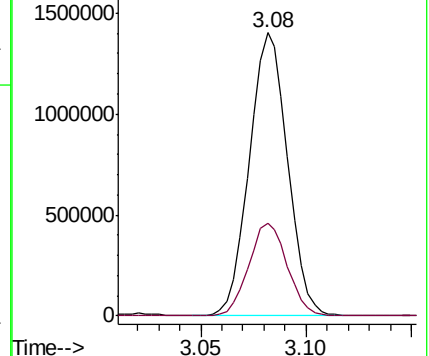
85 100

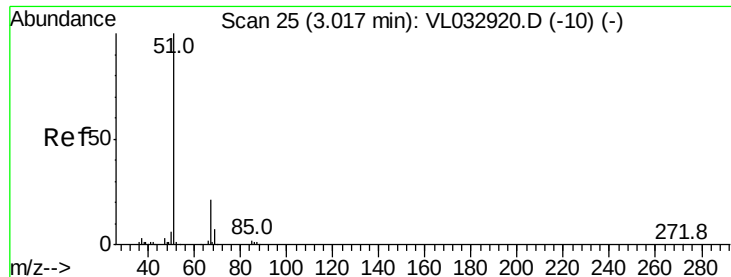
87 32.5 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.958 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

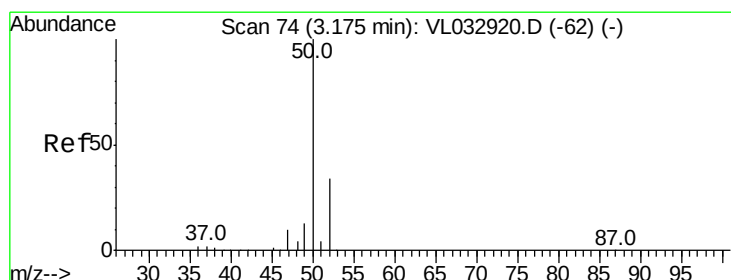
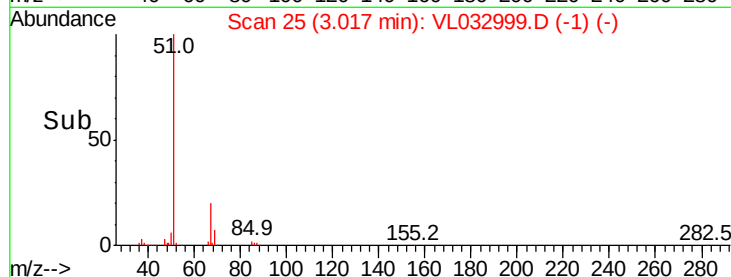
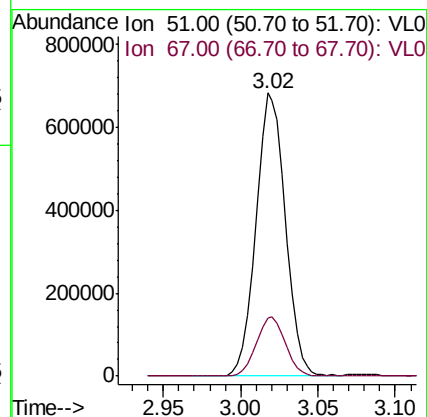
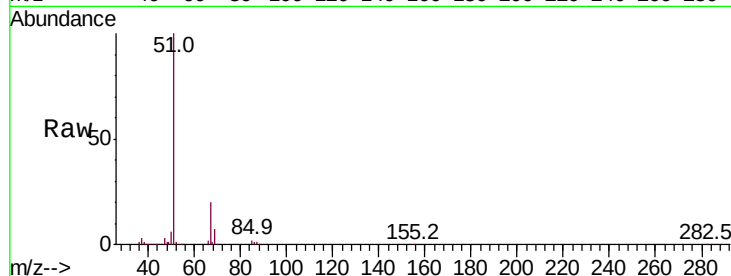
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 51 Resp: 905907

Ion Ratio Lower Upper

51 100

67 21.0 16.8 25.2



#4

Chloromethane

Concen: 9.775 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL032999.D

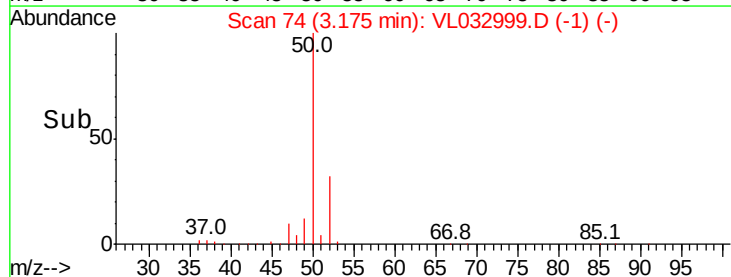
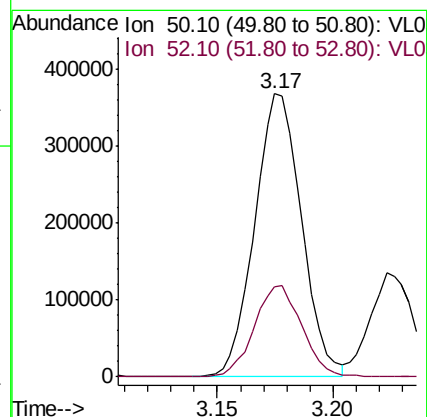
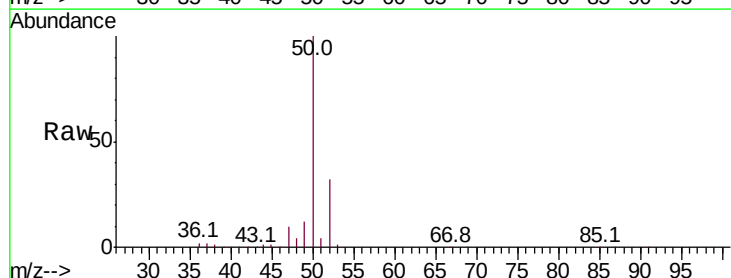
Acq: 17 Dec 2018 15:11

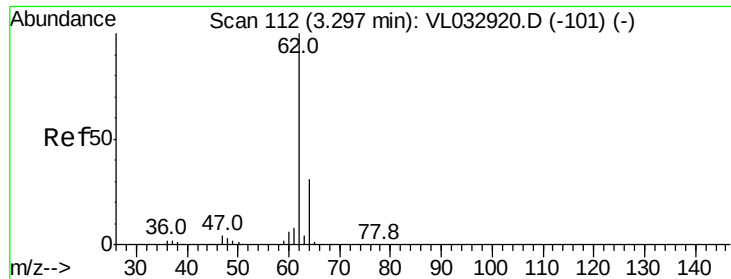
Tgt Ion: 50 Resp: 517711

Ion Ratio Lower Upper

50 100

52 31.9 27.3 40.9





#5

Vinyl Chloride

Concen: 9.967 ppbv

RT: 3.30 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_L

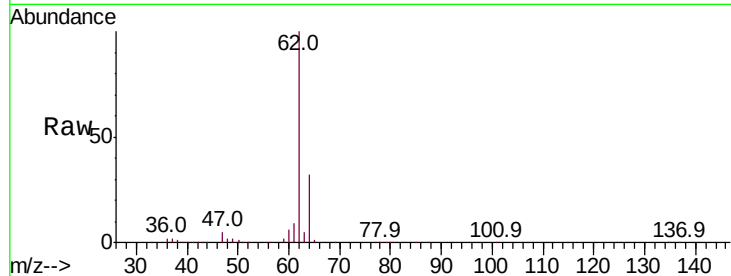
ClientSampleId :

Tot Ion: 62 Resp: 537130

Ion Ratio Lower Upper

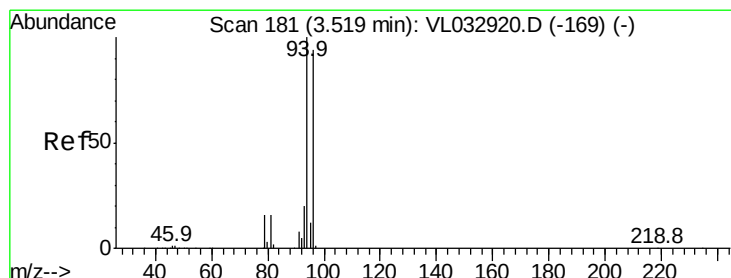
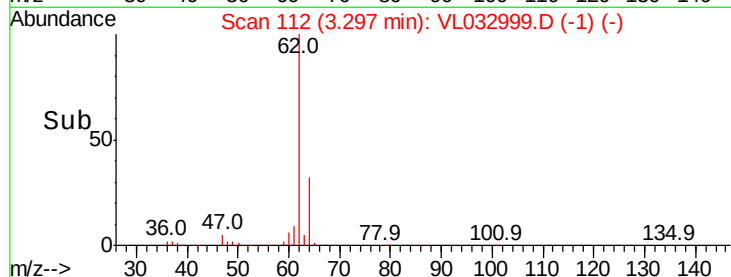
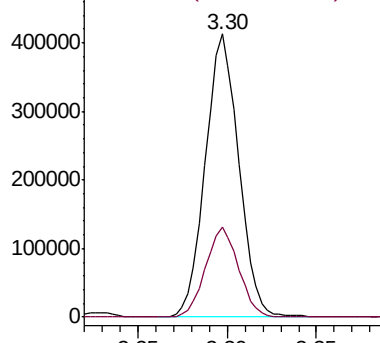
62 100

64 31.7 24.8 37.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.641 ppbv

RT: 3.52 min Scan# 181

Delta R.T. 0.00 min

Lab File: VL032999.D

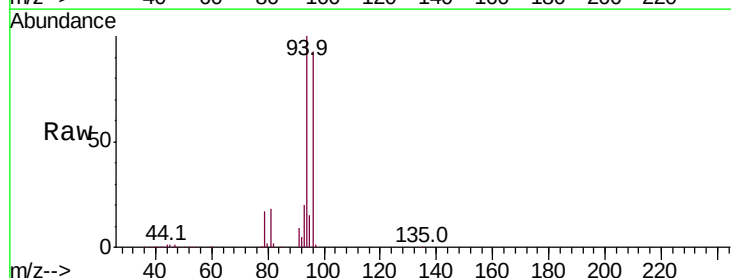
Acq: 17 Dec 2018 15:11

Tgt Ion: 94 Resp: 358664

Ion Ratio Lower Upper

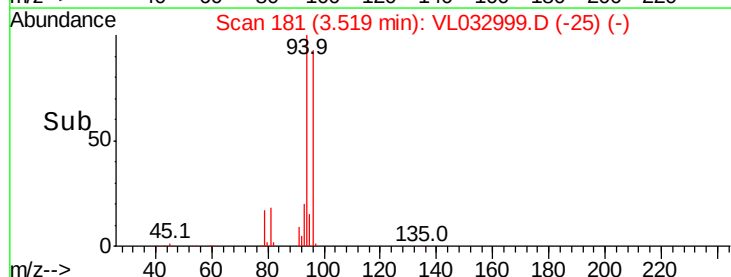
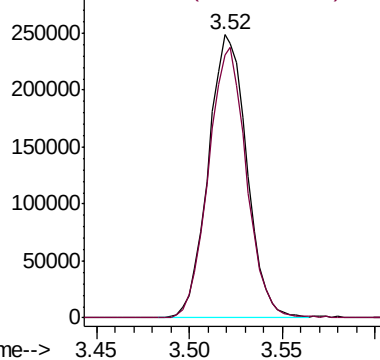
94 100

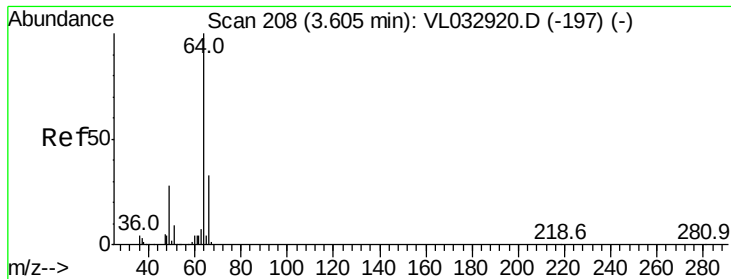
96 92.7 75.5 113.3



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.544 ppbv

RT: 3.61 min Scan# 208

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_L

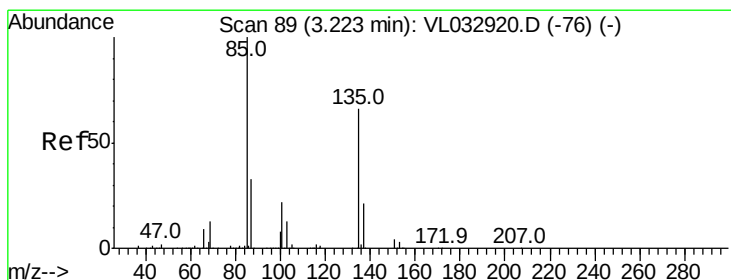
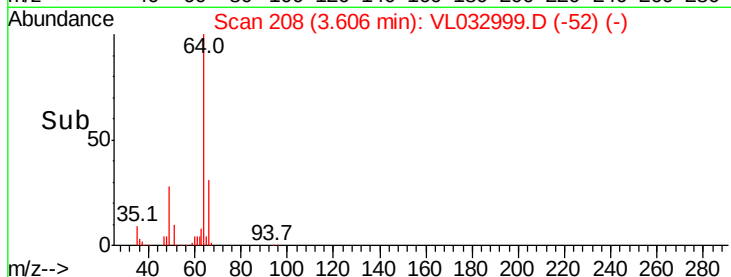
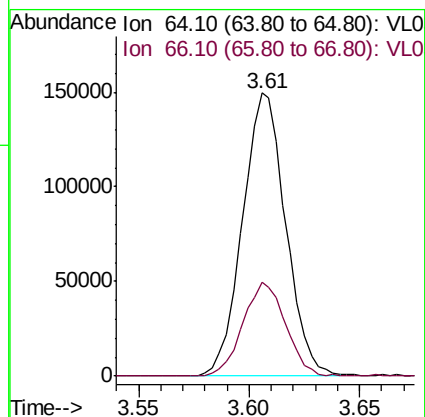
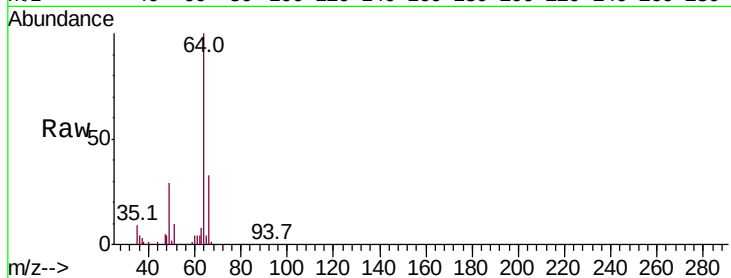
ClientSampleId :

Tot Ion: 64 Resp: 203656

Ion Ratio Lower Upper

64 100

66 33.2 26.6 40.0



#8

Dichlorotetrafluoroethane

Concen: 10.252 ppbv

RT: 3.23 min Scan# 90

Delta R.T. 0.00 min

Lab File: VL032999.D

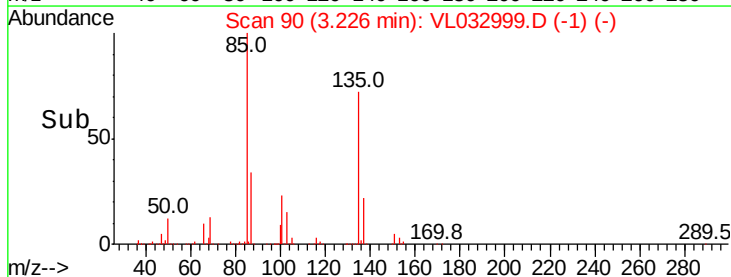
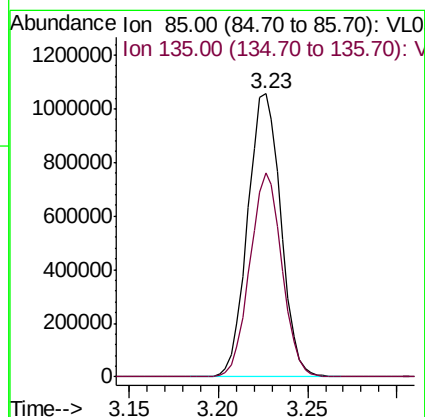
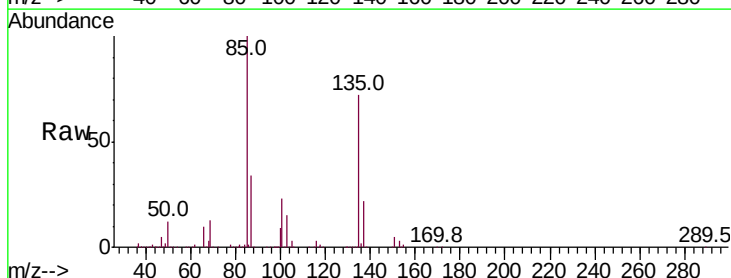
Acq: 17 Dec 2018 15:11

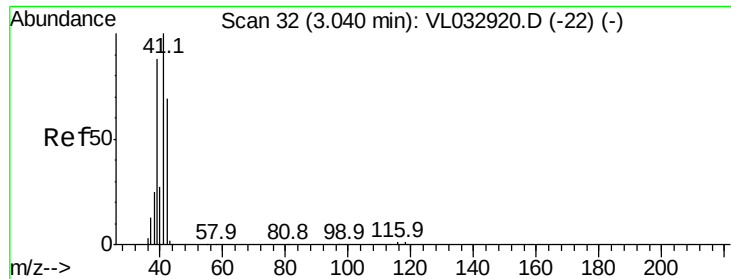
Tgt Ion: 85 Resp: 1366238

Ion Ratio Lower Upper

85 100

135 70.1 54.5 81.7





#9

Propene

Concen: 10.176 ppbv

RT: 3.04 min Scan# 33

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_L

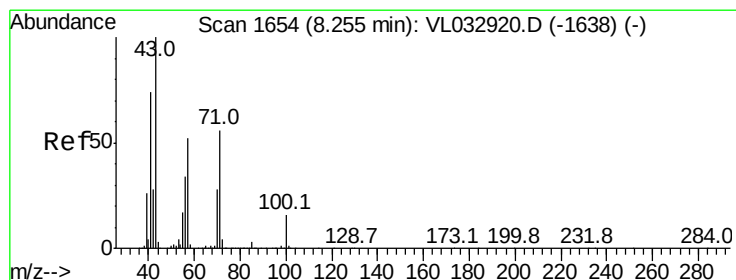
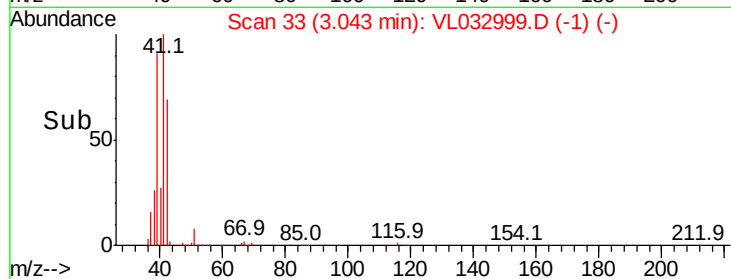
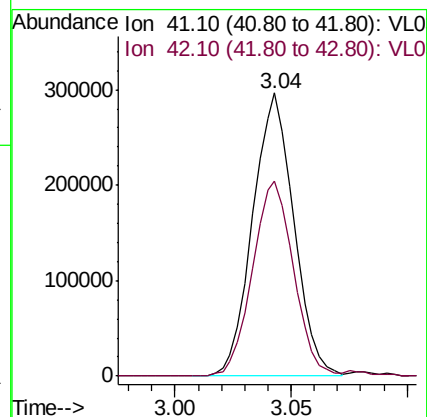
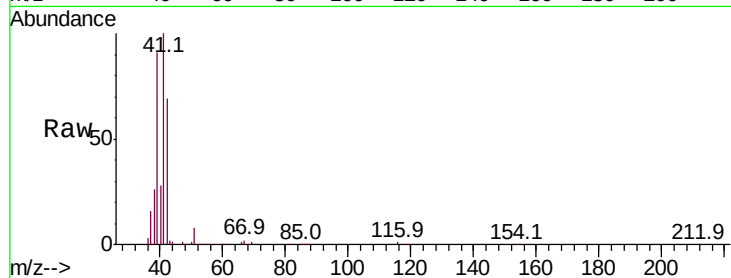
ClientSampleId :

Tot Ion: 41 Resp: 366045

Ion Ratio Lower Upper

41 100

42 70.1 56.2 84.2



#10

Heptane

Concen: 7.953 ppbv

RT: 8.26 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VL032999.D

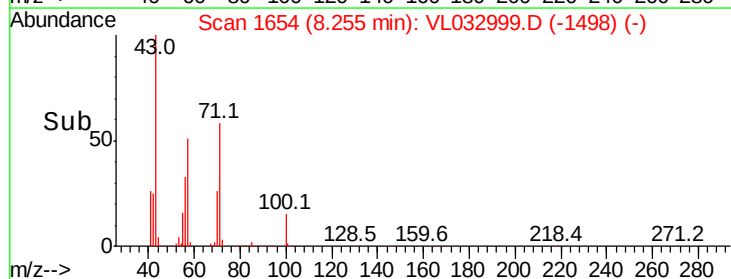
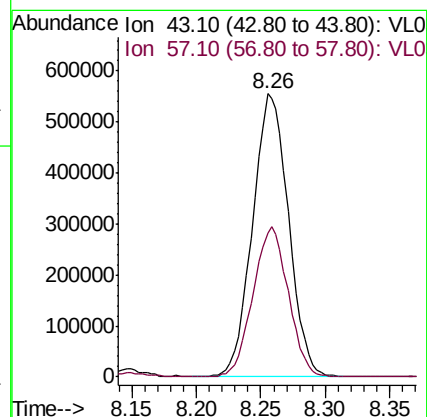
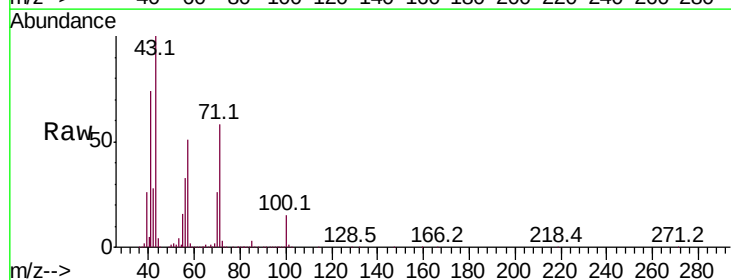
Acq: 17 Dec 2018 15:11

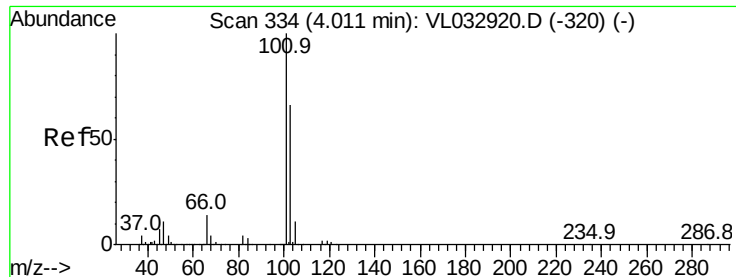
Tgt Ion: 43 Resp: 1074641

Ion Ratio Lower Upper

43 100

57 52.4 41.8 62.6





#11

Trichlorofluoromethane

Concen: 10.324 ppbv

RT: 4.01 min Scan# 334

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_L

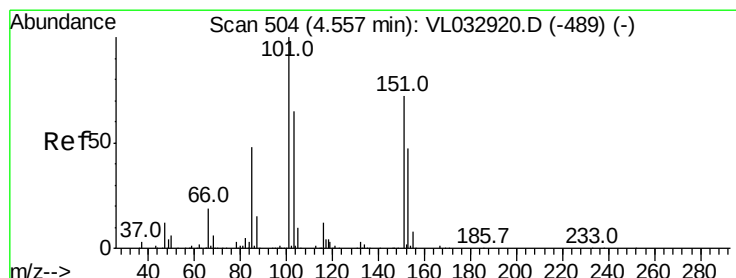
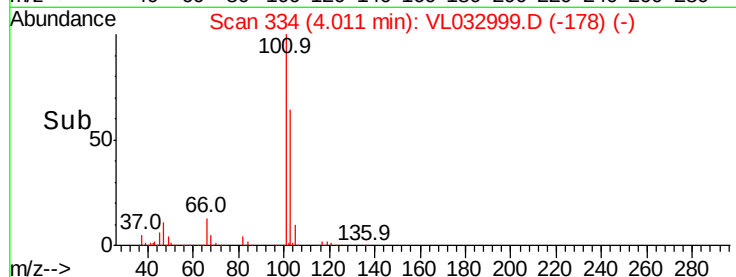
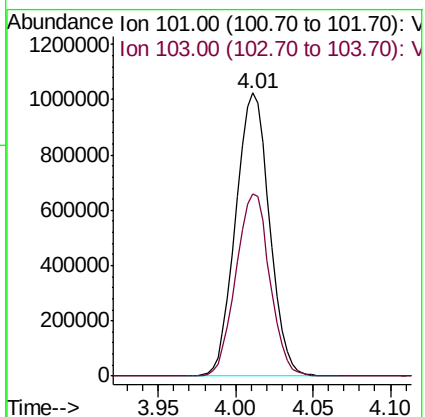
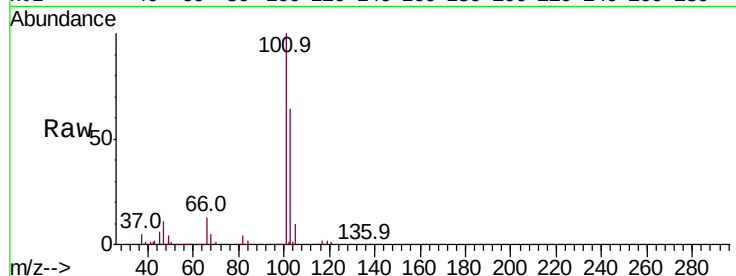
ClientSampled :

Tot Ion:101 Resp: 1559811

Ion Ratio Lower Upper

101 100

103 64.2 52.7 79.1



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.266 ppbv

RT: 4.56 min Scan# 505

Delta R.T. 0.00 min

Lab File: VL032999.D

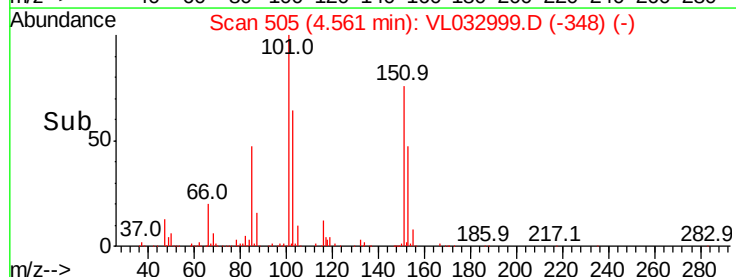
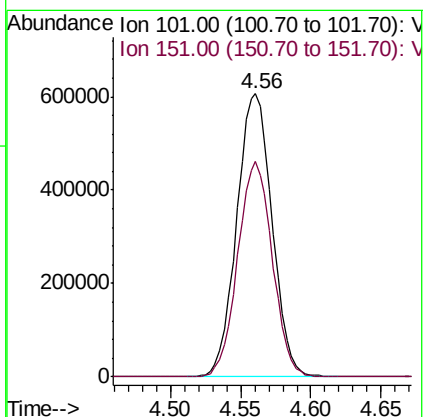
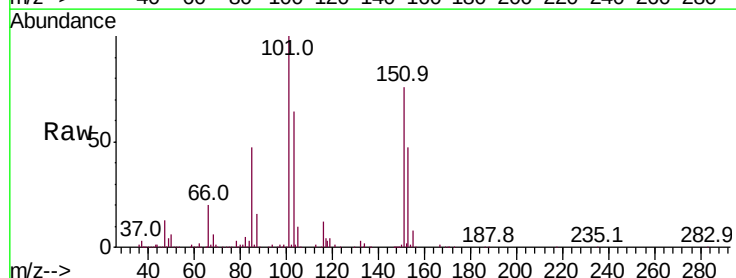
Acq: 17 Dec 2018 15:11

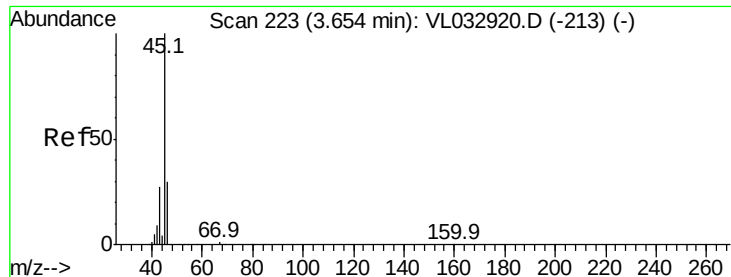
Tgt Ion:101 Resp: 1065492

Ion Ratio Lower Upper

101 100

151 74.6 59.3 88.9





#13

Ethanol

Concen: 7.066 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_L

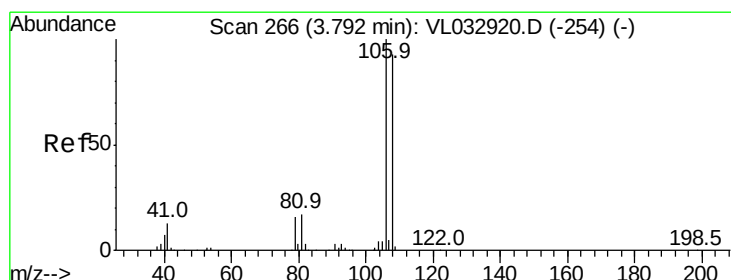
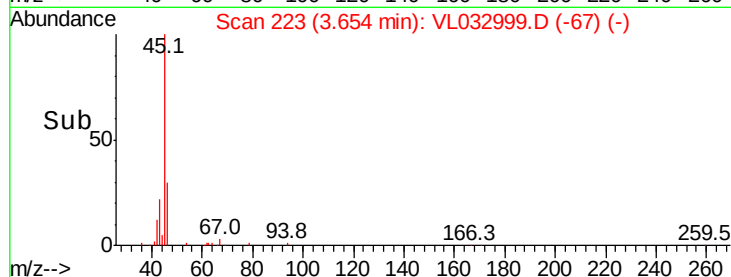
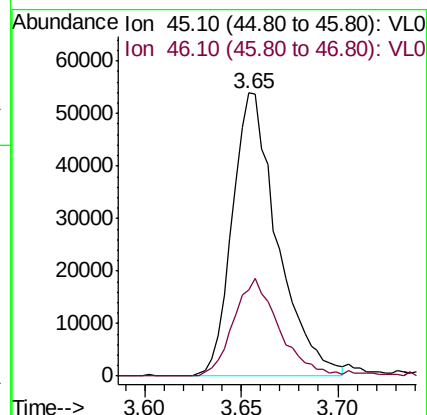
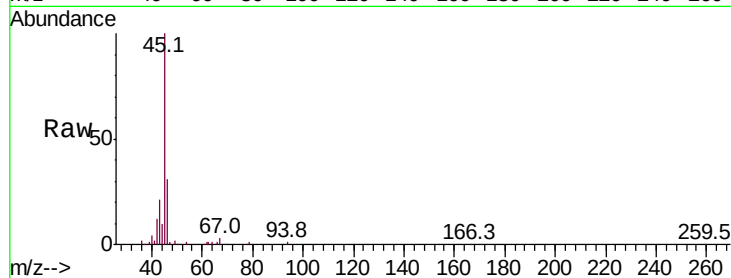
ClientSampleId :

Tot Ion: 45 Resp: 87521

Ion Ratio Lower Upper

45 100

46 35.9 13.8 55.4



#14

Bromoethene

Concen: 10.846 ppbv

RT: 3.80 min Scan# 267

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

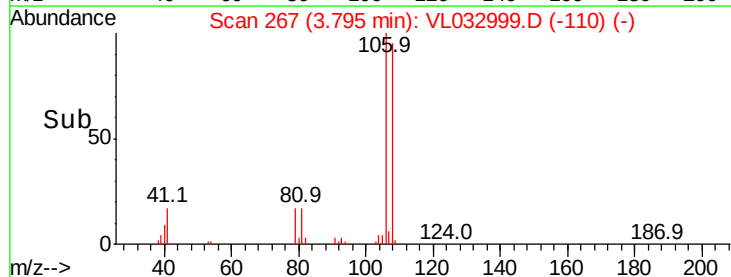
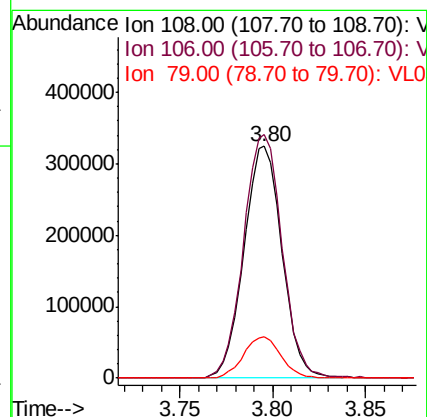
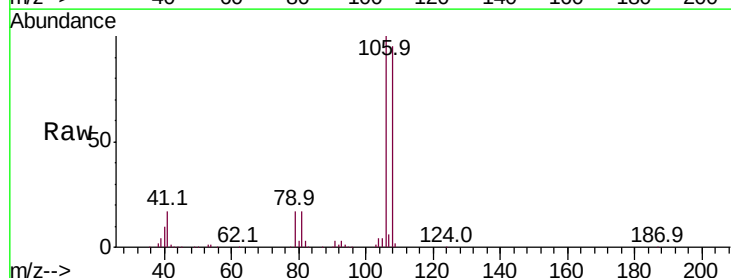
Tgt Ion: 108 Resp: 464183

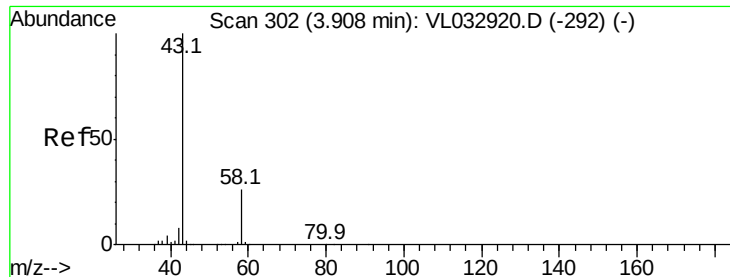
Ion Ratio Lower Upper

108 100

106 106.4 85.4 128.2

79 18.2 14.6 21.8





#15

Acetone

Concen: 9.434 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_L

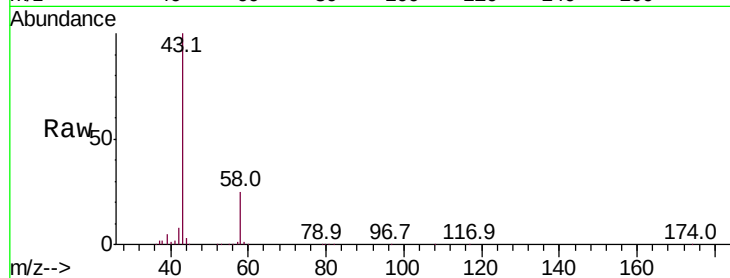
ClientSampleId :

Tot Ion: 43 Resp: 972641

Ion Ratio Lower Upper

43 100

58 26.4 20.6 30.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.91

600000

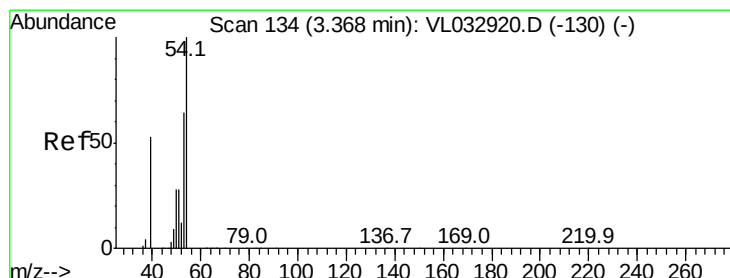
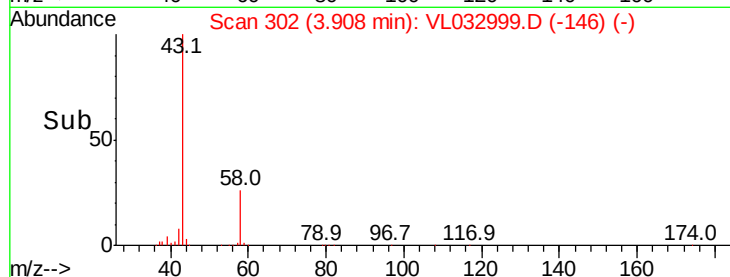
400000

200000

0

Time-->

3.85 3.90 3.95



#16

1,3-Butadiene

Concen: 10.231 ppbv

RT: 3.37 min Scan# 134

Delta R.T. 0.00 min

Lab File: VL032999.D

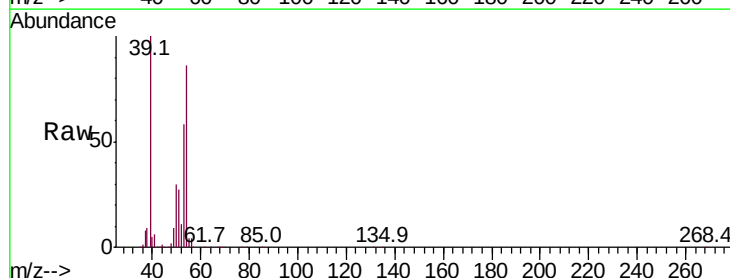
Acq: 17 Dec 2018 15:11

Tgt Ion: 39 Resp: 418502

Ion Ratio Lower Upper

39 100

54 99.3 72.7 109.1



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.37

400000

300000

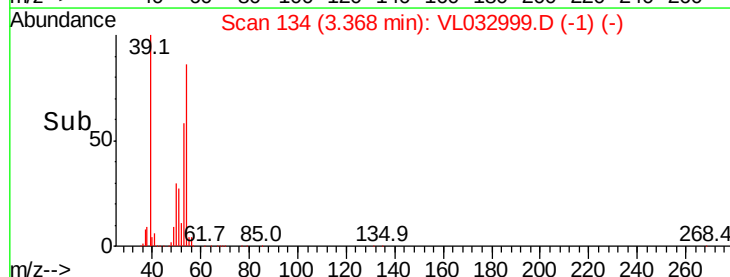
200000

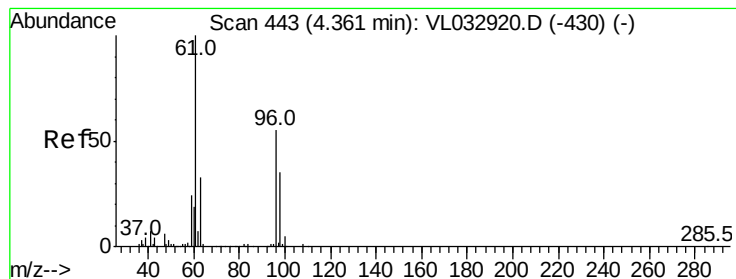
100000

0

Time-->

3.34 3.36 3.38 3.40





#17

tert-Butyl alcohol

Concen: 9.383 ppbv

RT: 4.36 min Scan# 444

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_L

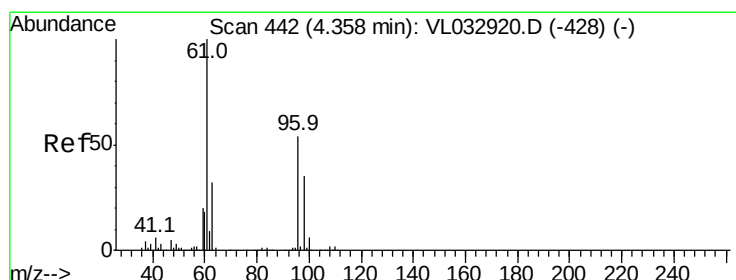
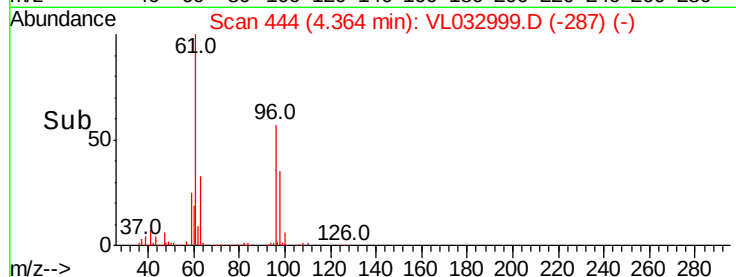
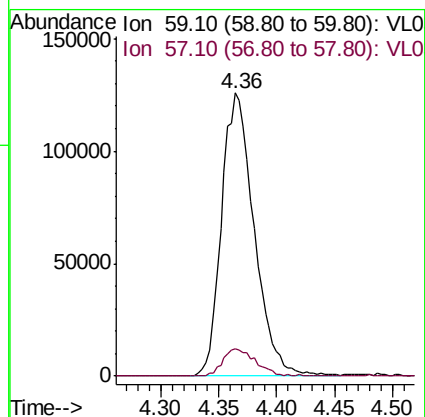
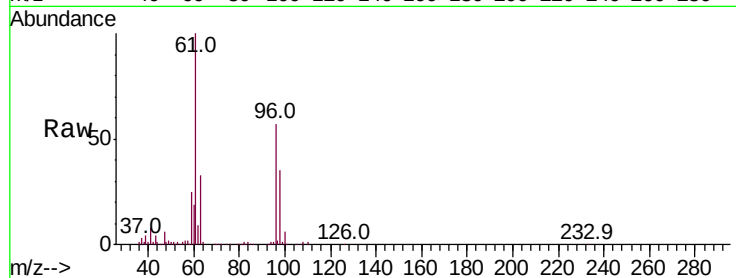
ClientSampleId :

Tot Ion: 59 Resp: 246296

Ion Ratio Lower Upper

59 100

57 9.7 0.6 1.0#



#18

1,1-Dichloroethene

Concen: 9.634 ppbv

RT: 4.36 min Scan# 442

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

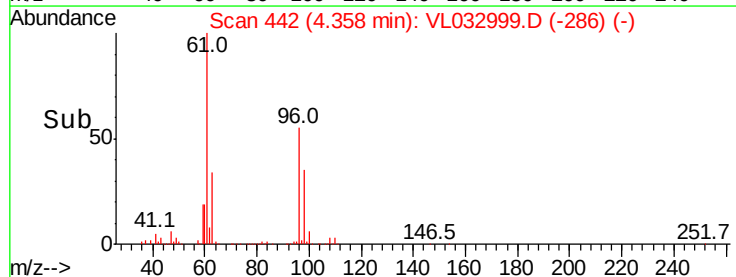
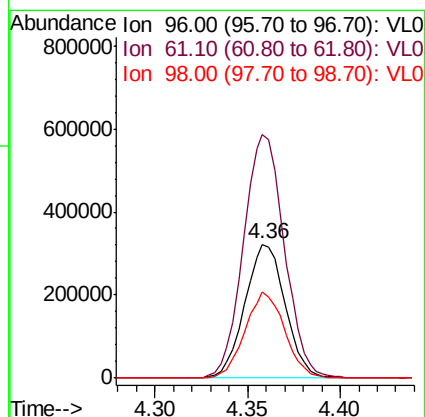
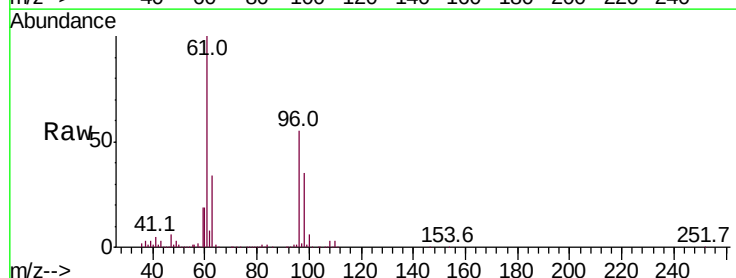
Tgt Ion: 96 Resp: 486371

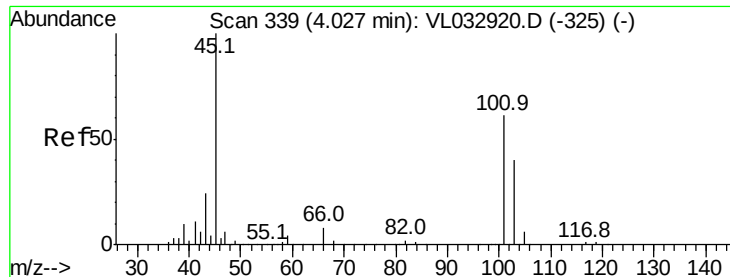
Ion Ratio Lower Upper

96 100

61 181.5 147.0 220.4

98 64.3 50.7 76.1





#19

Isopropyl Alcohol

Concen: 9.914 ppbv

RT: 4.03 min Scan# 340

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_L

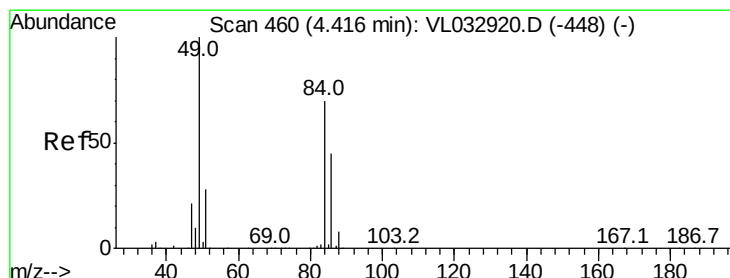
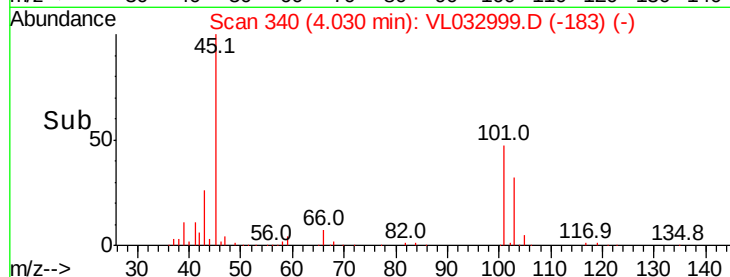
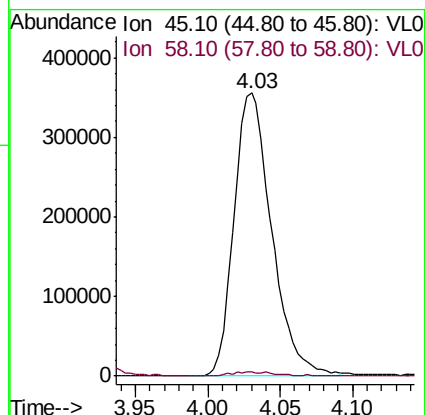
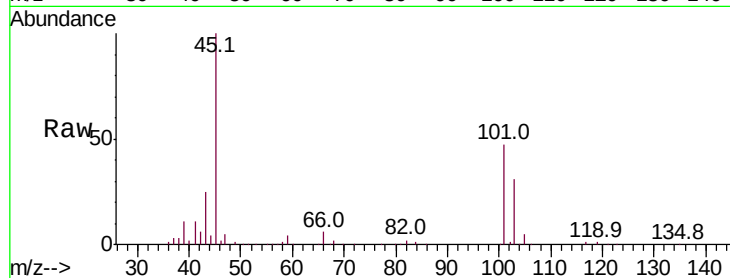
ClientSampleId :

Tot Ion: 45 Resp: 641909

Ion Ratio Lower Upper

45 100

58 2.2 1.4 2.2#



#20

Methylene Chloride

Concen: 8.299 ppbv

RT: 4.42 min Scan# 460

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Tgt Ion: 84 Resp: 418187

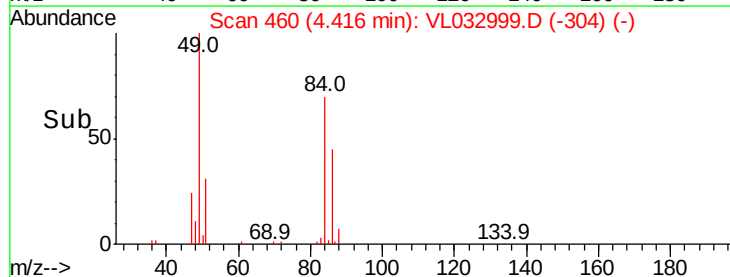
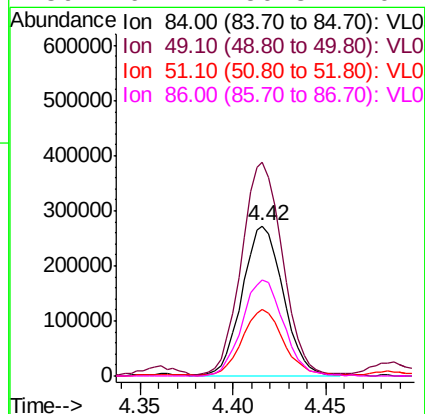
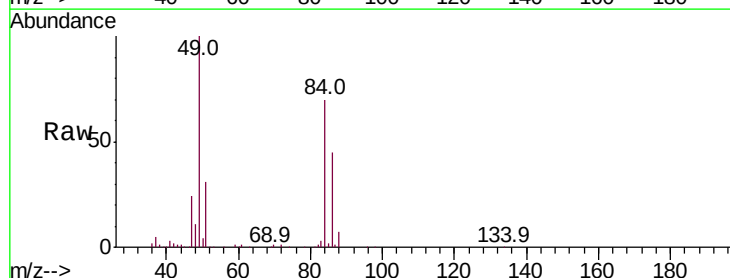
Ion Ratio Lower Upper

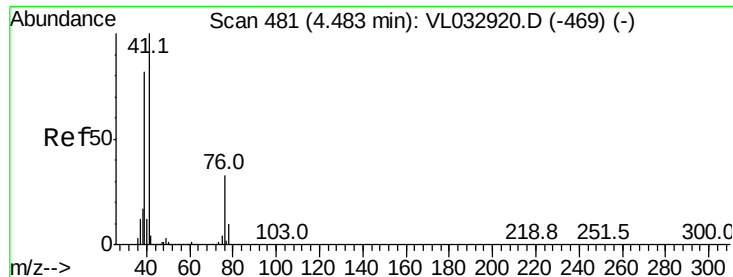
84 100

49 141.8 113.8 170.8

51 44.1 31.8 47.8

86 64.1 50.8 76.2





#21

Allvl Chloride

Concen: 8.876 ppbv

RT: 4.48 min Scan# 481

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Instrument :
MSVOA_L
ClientSampleId :

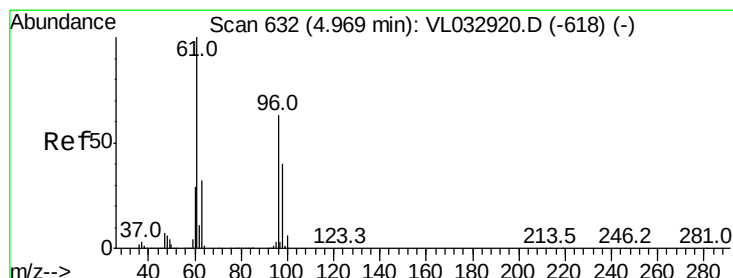
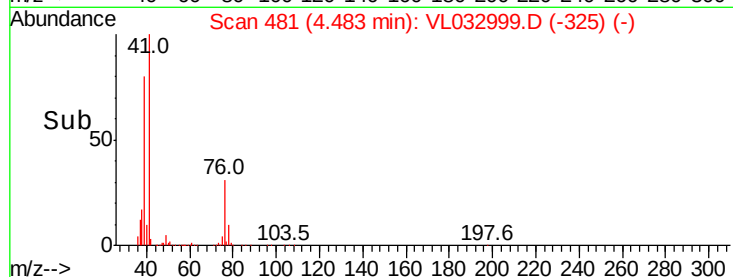
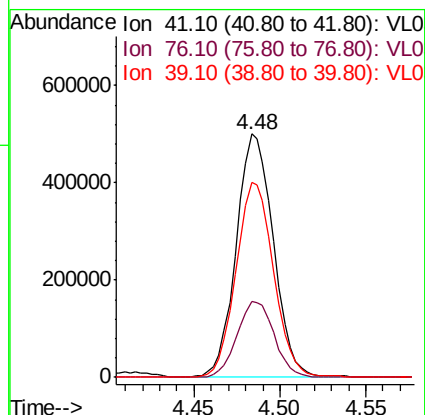
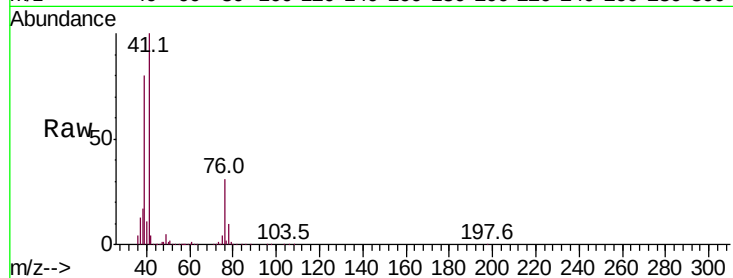
Tot Ion: 41 Resp: 745789

Ion Ratio Lower Upper

41 100

76 31.5 25.2 37.8

39 82.2 65.2 97.8



#22

trans-1,2-Dichloroethene

Concen: 10.287 ppbv

RT: 4.97 min Scan# 632

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

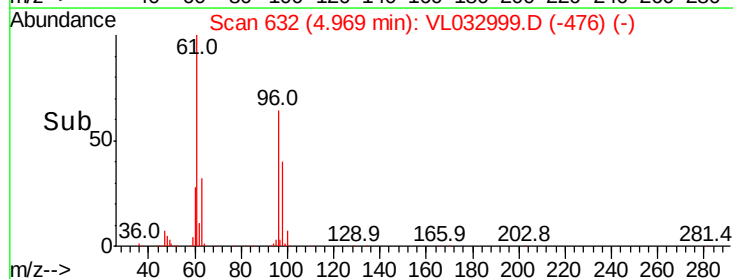
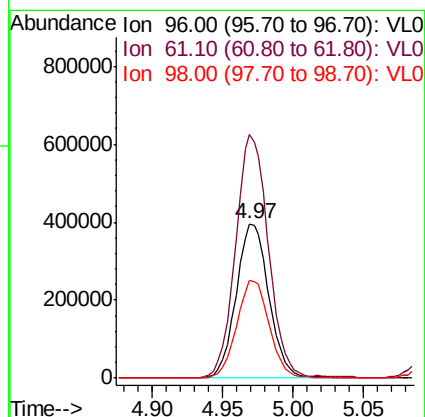
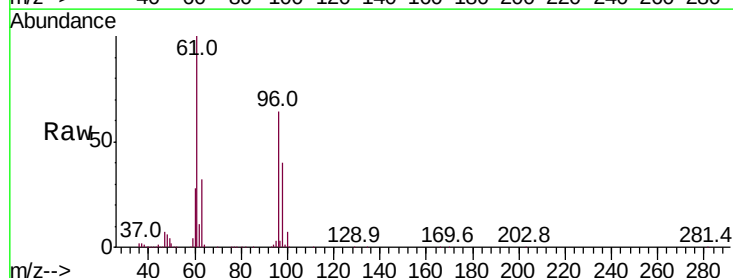
Tgt Ion: 96 Resp: 644493

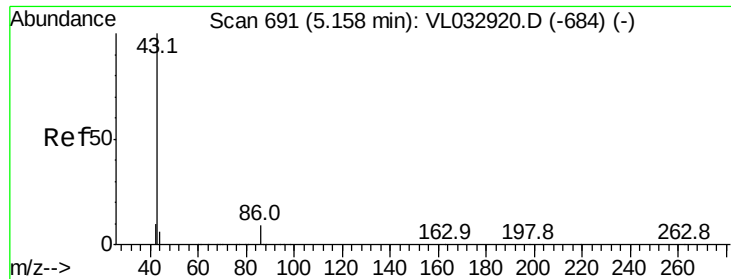
Ion Ratio Lower Upper

96 100

61 157.4 127.1 190.7

98 62.7 51.3 76.9





#23

Vinyl Acetate

Concen: 11.107 ppbv

RT: 5.16 min Scan# 692

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 1938844

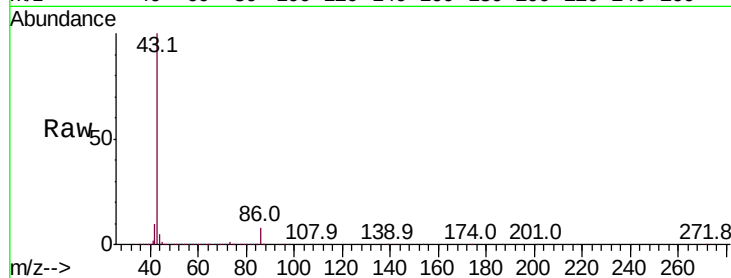
Ion Ratio Lower Upper

43 100

86 7.9 6.6 9.8

42 10.2 8.3 12.5

44 5.0 4.2 6.4

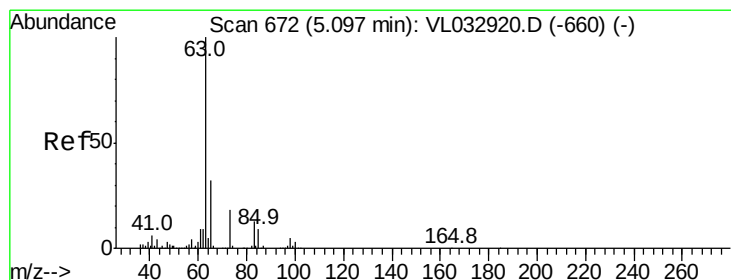
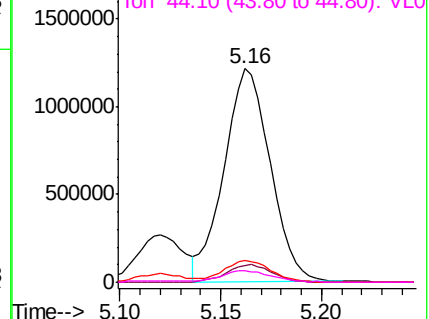
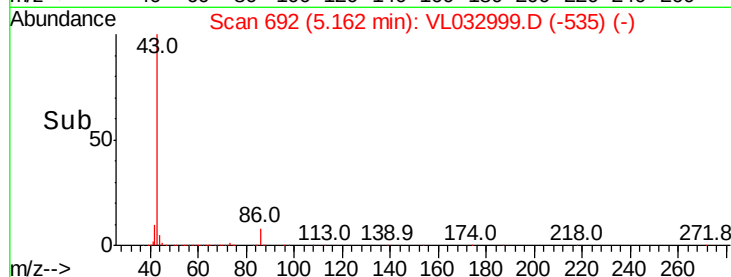


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.738 ppbv

RT: 5.10 min Scan# 673

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

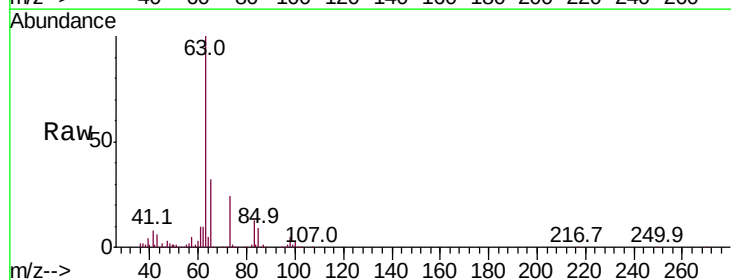
Tgt Ion: 63 Resp: 1478212

Ion Ratio Lower Upper

63 100

98 4.7 2.5 7.5

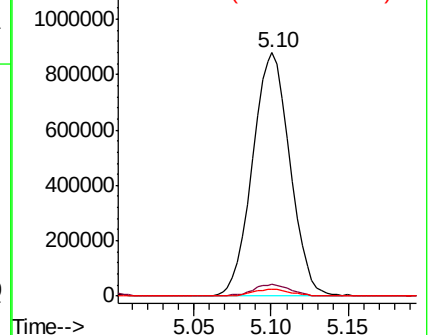
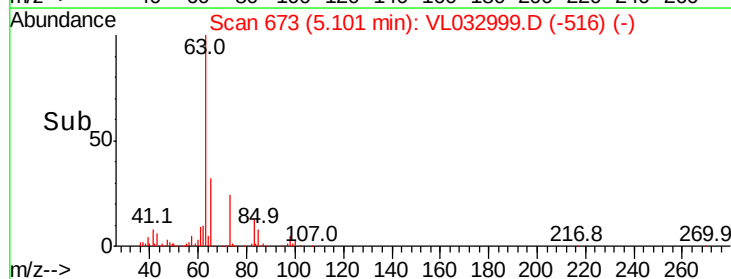
100 3.0 1.4 4.2

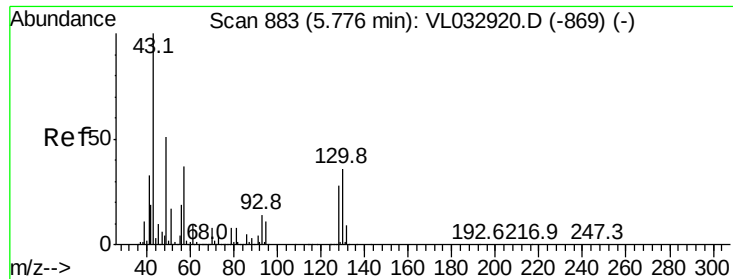


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

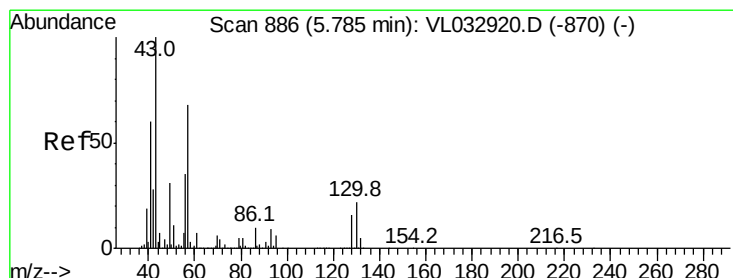
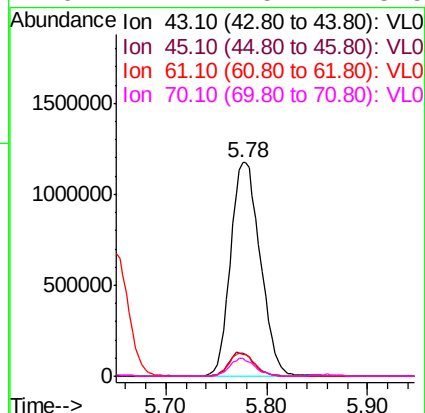
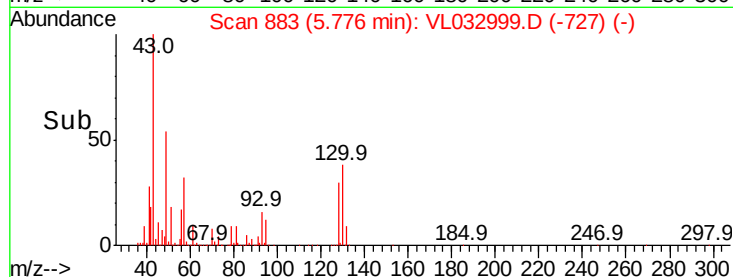
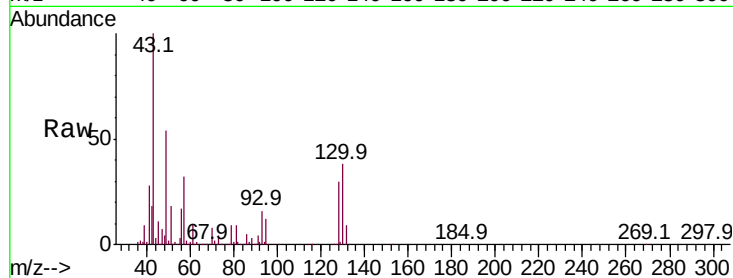




#25
Ethyl Acetate
Concen: 9.879 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL032999.D
Acq: 17 Dec 2018 15:11

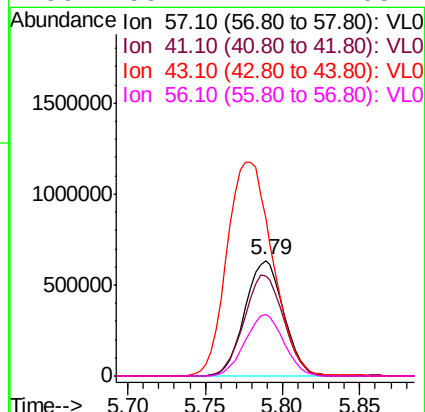
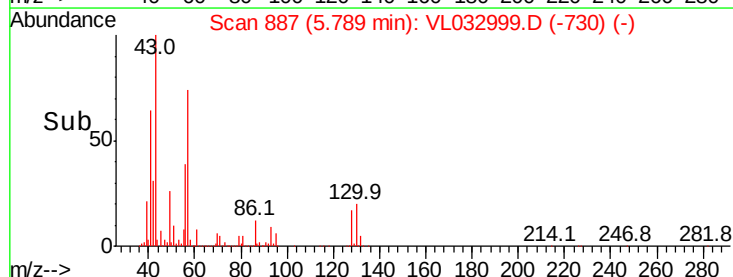
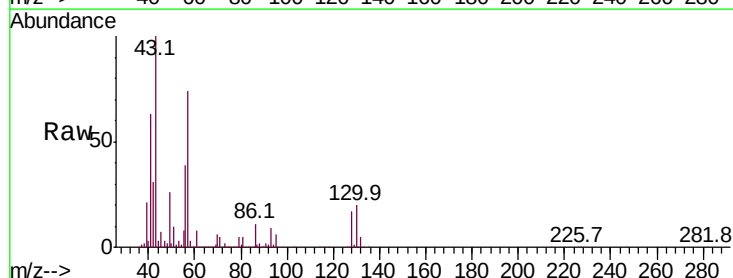
Instrument :
MSVOA_L
ClientSampleId :

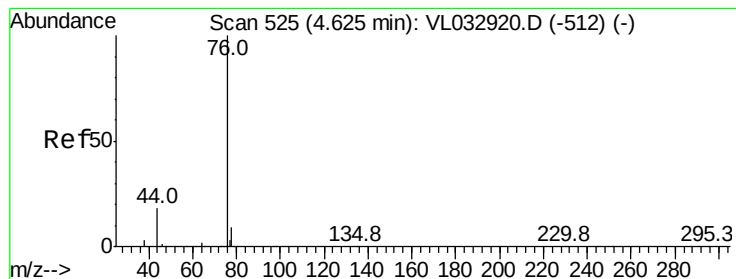
Tot Ion: 43 Resp: 2406144
Ion Ratio Lower Upper
43 100
45 9.8 7.8 11.6
61 9.5 7.4 11.2
70 7.1 5.7 8.5



#26
Hexane
Concen: 9.839 ppbv
RT: 5.79 min Scan# 887
Delta R.T. 0.00 min
Lab File: VL032999.D
Acq: 17 Dec 2018 15:11

Tgt Ion: 57 Resp: 1106421
Ion Ratio Lower Upper
57 100
41 90.0 72.2 108.2
43 217.5 171.9 257.9
56 53.2 42.2 63.2





#27

Carbon Disulfide

Concen: 8.654 ppbv

RT: 4.63 min Scan# 526

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_L

ClientSampled :

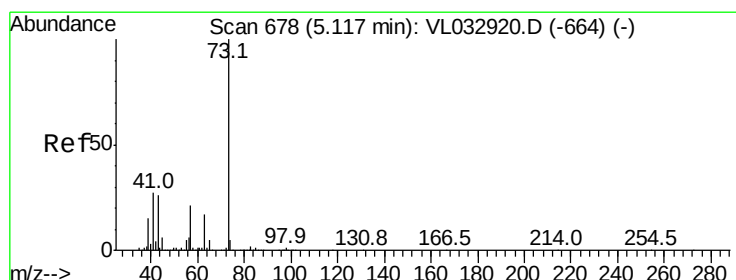
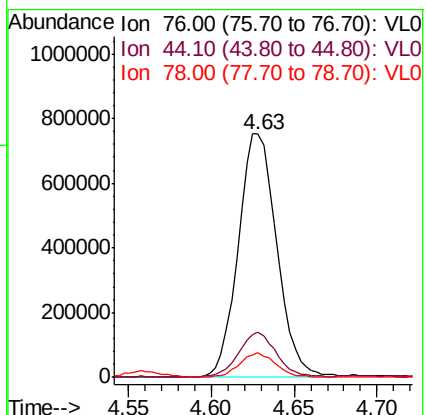
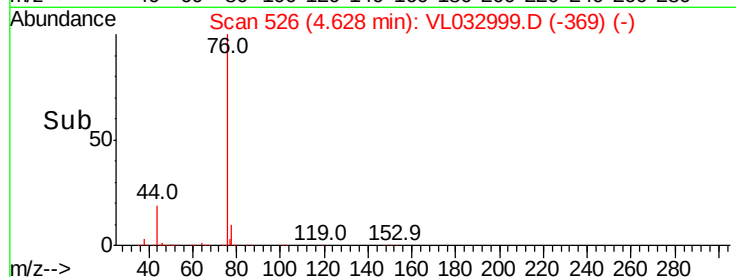
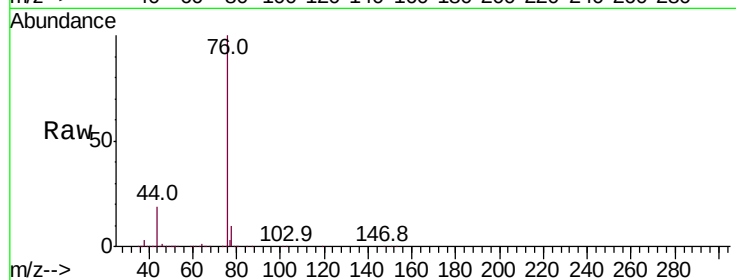
Tot Ion: 76 Resp: 1216784

Ion Ratio Lower Upper

76 100

44 17.9 14.7 22.1

78 9.2 7.4 11.2



#28

Methyl tert-Butyl Ether

Concen: 10.938 ppbv

RT: 5.12 min Scan# 679

Delta R.T. 0.00 min

Lab File: VL032999.D

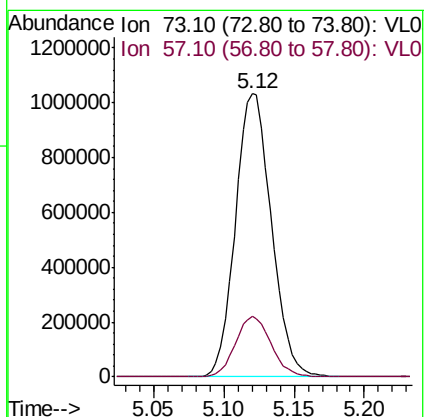
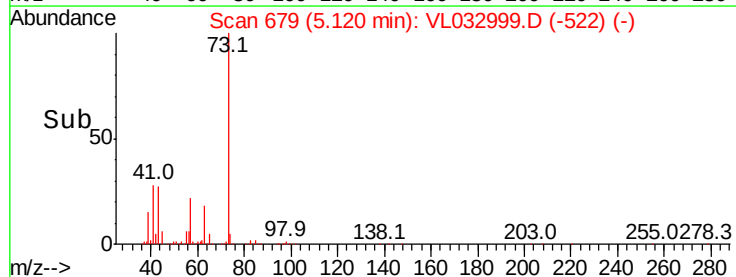
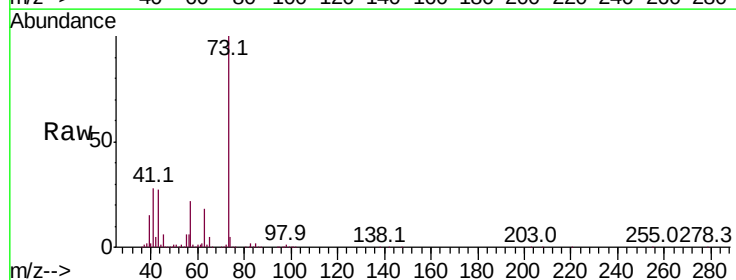
Acq: 17 Dec 2018 15:11

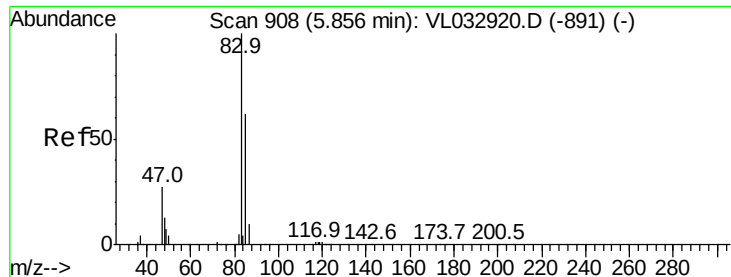
Tgt Ion: 73 Resp: 1847252

Ion Ratio Lower Upper

73 100

57 21.4 17.4 26.0

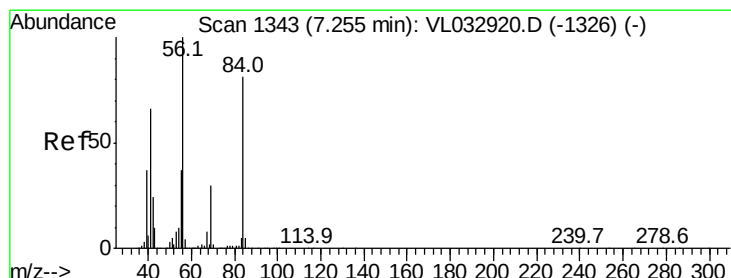
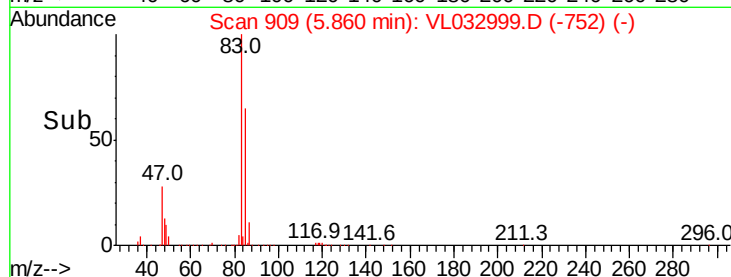
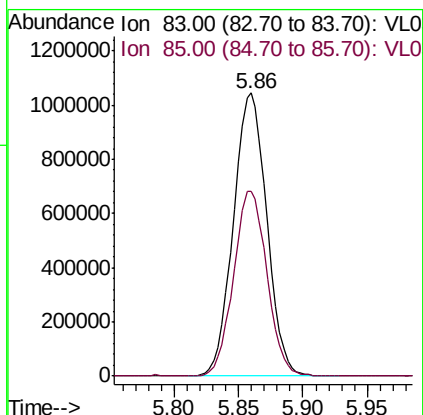
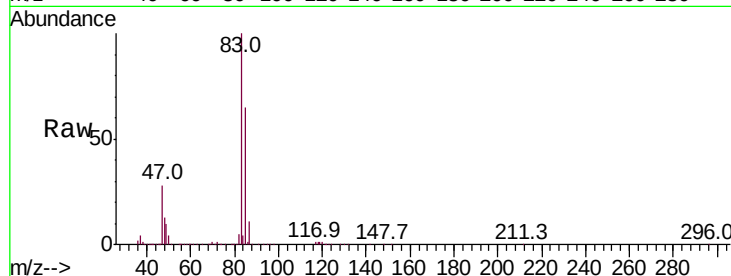




#29
Chloroform
Concen: 9.364 ppbv
RT: 5.86 min Scan# 909
Delta R.T. 0.00 min
Lab File: VL032999.D
Acq: 17 Dec 2018 15:11

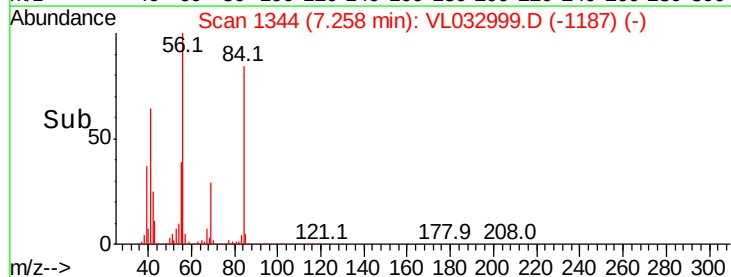
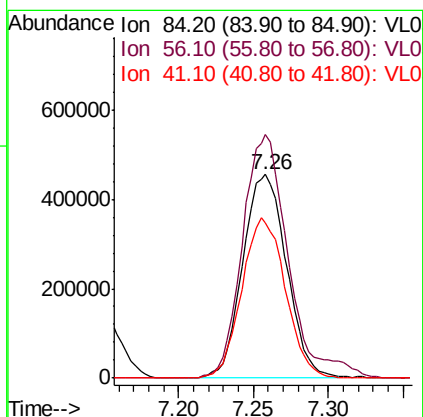
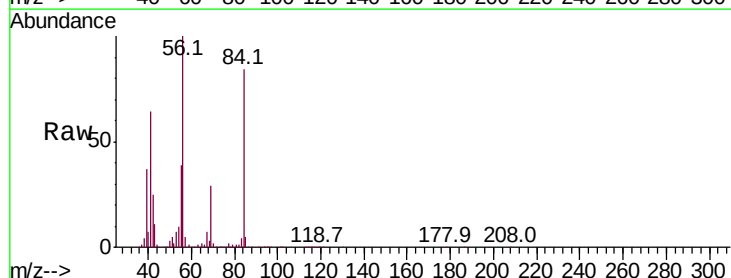
Instrument :
MSVOA_L
ClientSampleId :

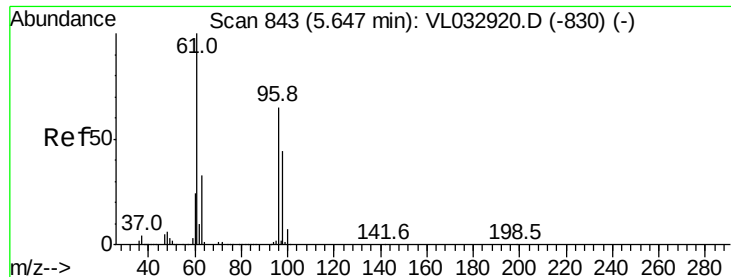
Tot Ion: 83 Resp: 1878772
Ion Ratio Lower Upper
83 100
85 65.2 49.8 74.8



#30
Cyclohexane
Concen: 9.967 ppbv
RT: 7.26 min Scan# 1344
Delta R.T. 0.00 min
Lab File: VL032999.D
Acq: 17 Dec 2018 15:11

Tgt Ion: 84 Resp: 928945
Ion Ratio Lower Upper
84 100
56 125.6 102.5 153.7
41 78.3 64.1 96.1



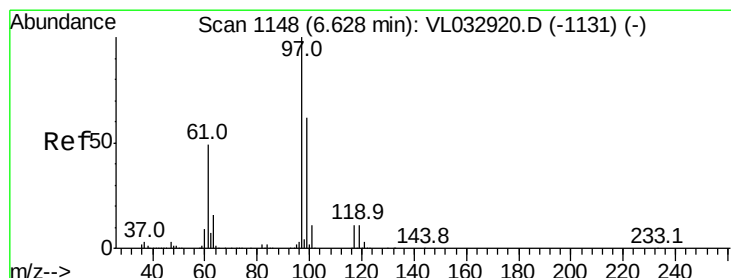
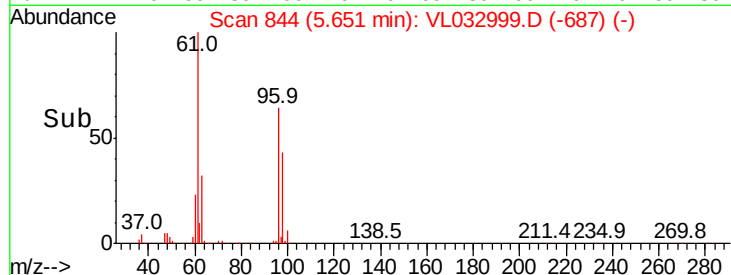
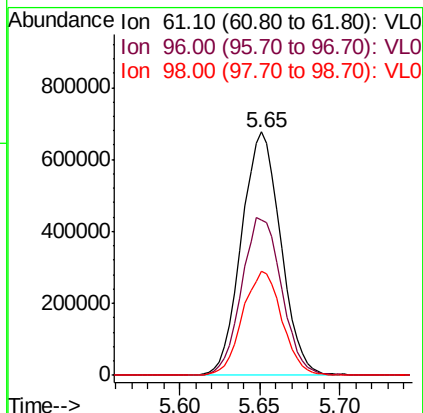
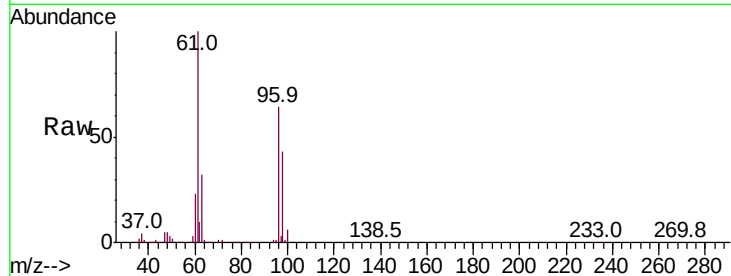


#31

cis-1,2-Dichloroethene
Concen: 10.985 ppbv
RT: 5.65 min Scan# 844
Delta R.T. 0.00 min
Lab File: VL032999.D
Acq: 17 Dec 2018 15:11

Instrument :
MSVOA_L
ClientSampleId :

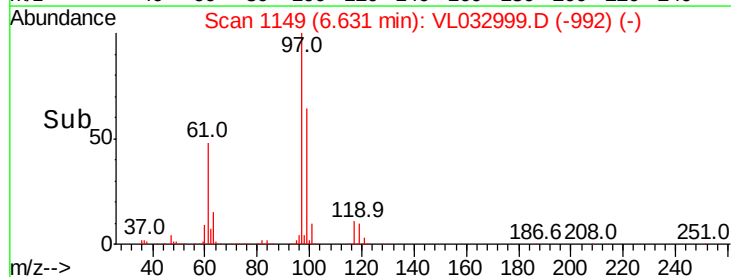
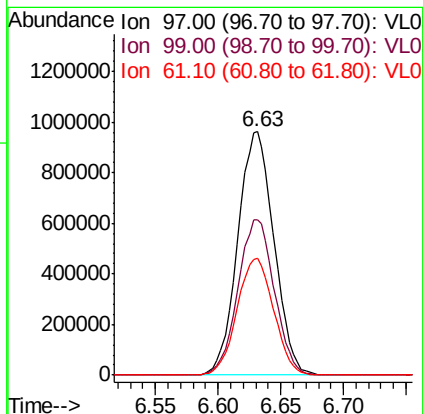
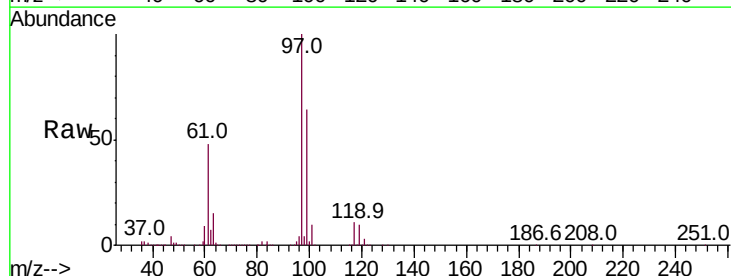
Tot Ion: 61 Resp: 1133490
Ion Ratio Lower Upper
61 100
96 63.7 51.9 77.9
98 42.6 35.0 52.4

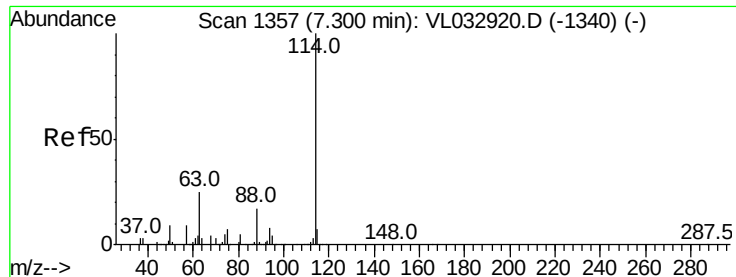


#32

1,1,1-Trichloroethane
Concen: 9.087 ppbv
RT: 6.63 min Scan# 1149
Delta R.T. 0.00 min
Lab File: VL032999.D
Acq: 17 Dec 2018 15:11

Tgt Ion: 97 Resp: 1929255
Ion Ratio Lower Upper
97 100
99 64.3 51.1 76.7
61 48.4 39.3 58.9

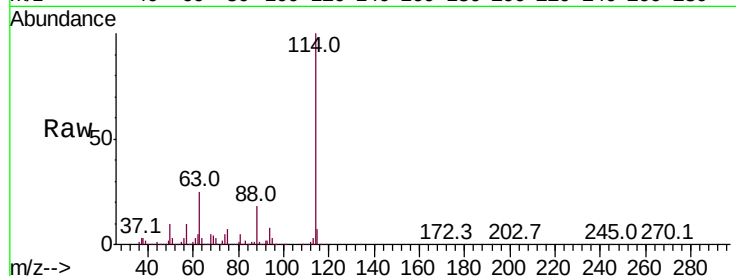




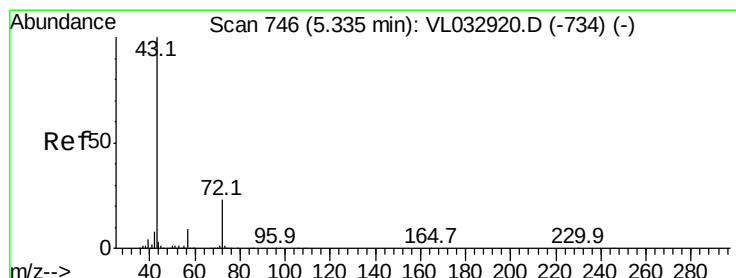
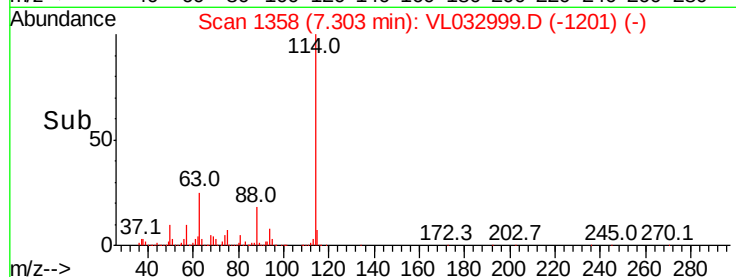
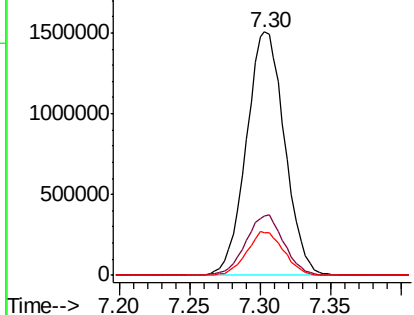
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1358
 Delta R.T. 0.00 min
 Lab File: VL032999.D
 Acq: 17 Dec 2018 15:11

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 2859880
 Ion Ratio Lower Upper
 114 100
 63 24.9 20.1 30.1
 88 17.5 14.2 21.4

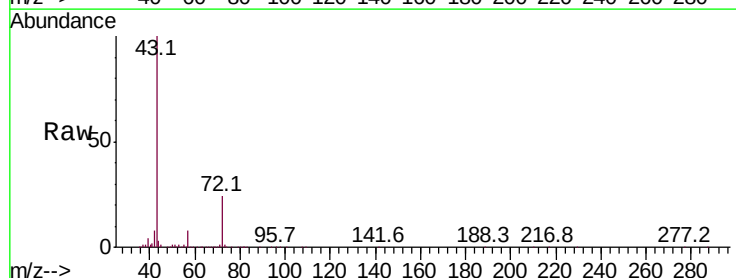


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

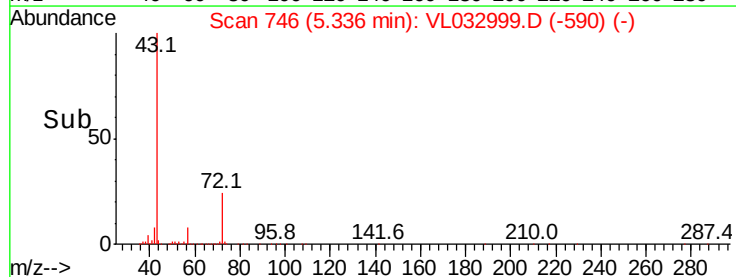
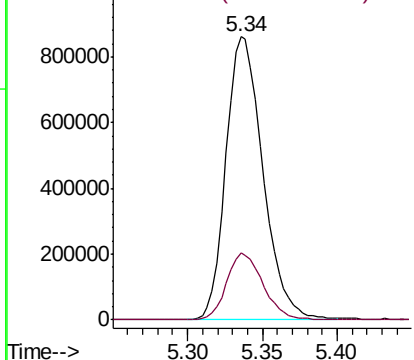


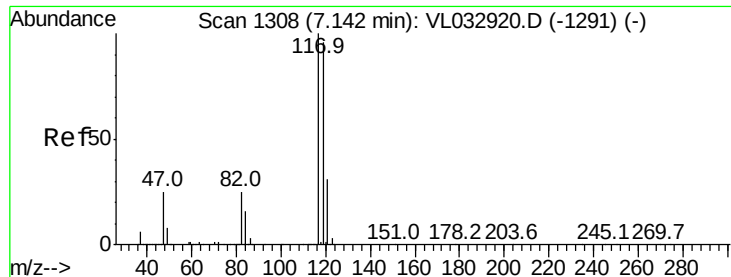
#34
 2-Butanone
 Concen: 11.797 ppbv
 RT: 5.34 min Scan# 746
 Delta R.T. 0.00 min
 Lab File: VL032999.D
 Acq: 17 Dec 2018 15:11

Tgt Ion: 43 Resp: 1469522
 Ion Ratio Lower Upper
 43 100
 72 23.7 18.8 28.2



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





#35

Carbon Tetrachloride

Concen: 9.371 ppbv

RT: 7.14 min Scan# 1308

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

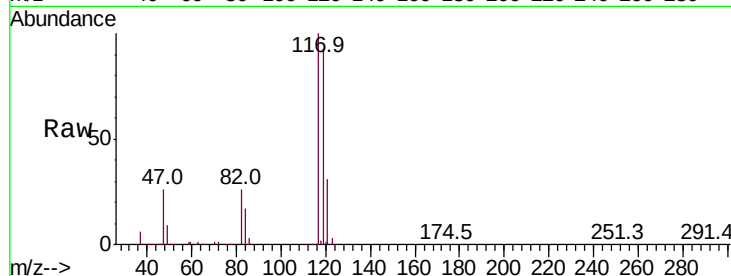
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:117 Resp: 2106421

Ion	Ratio	Lower	Upper
117	100		
119	93.2	76.5	114.7
121	31.0	24.5	36.7

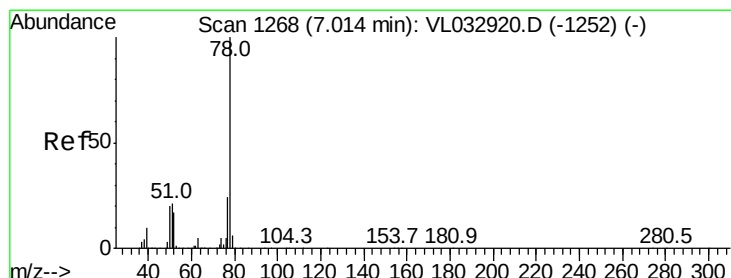
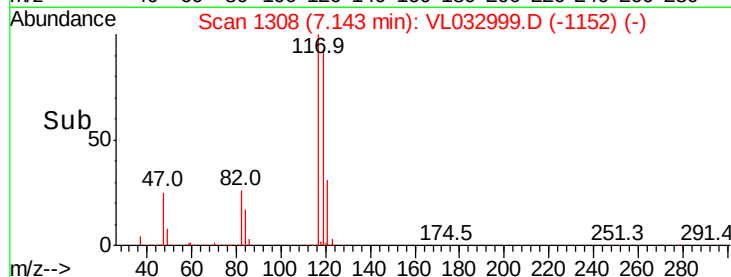
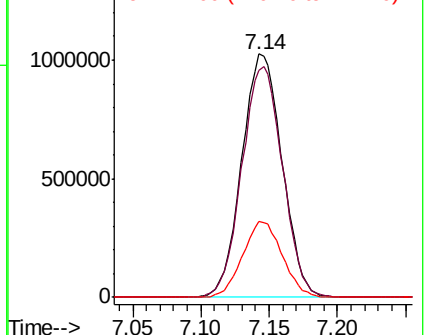


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.229 ppbv

RT: 7.02 min Scan# 1269

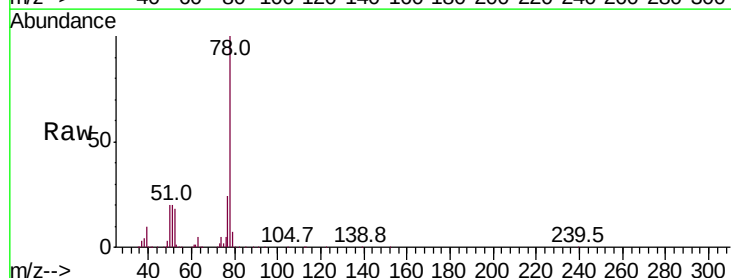
Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Tgt Ion: 78 Resp: 2151766

Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.9	28.3
50	19.7	16.1	24.1

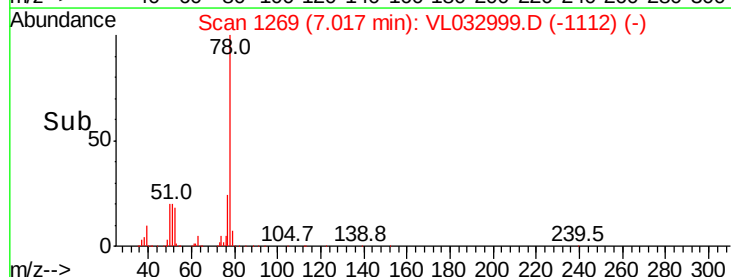
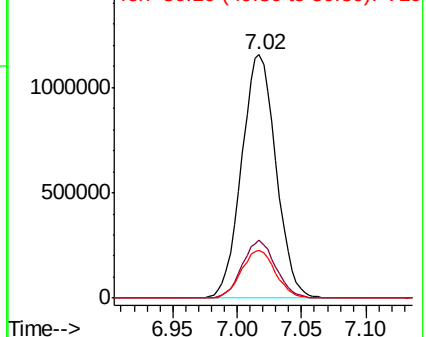


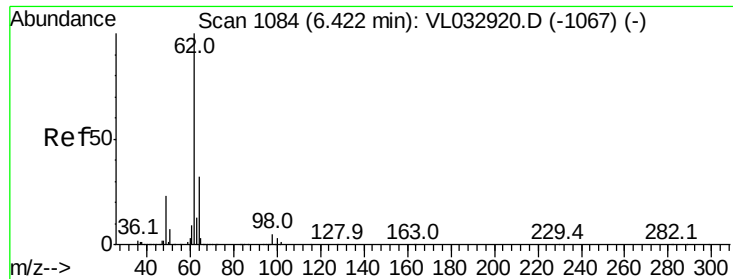
Abundance

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: 10.031 ppbv

RT: 6.42 min Scan# 1084

Delta R.T. 0.00 min

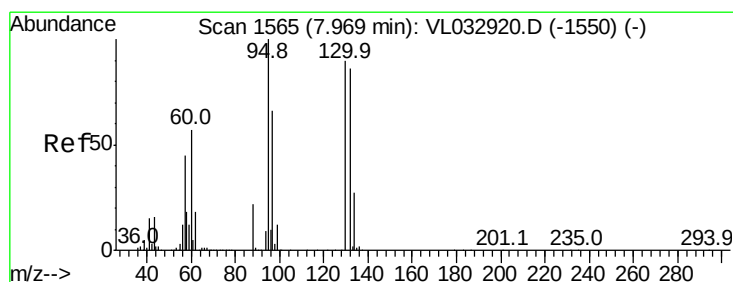
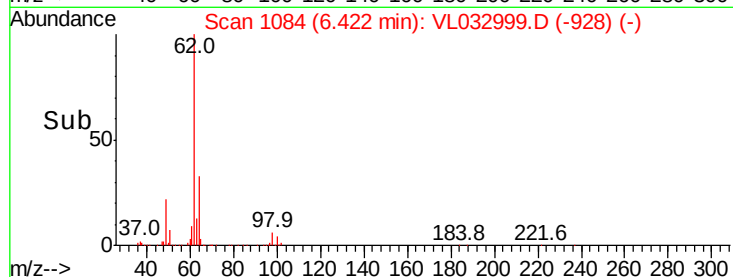
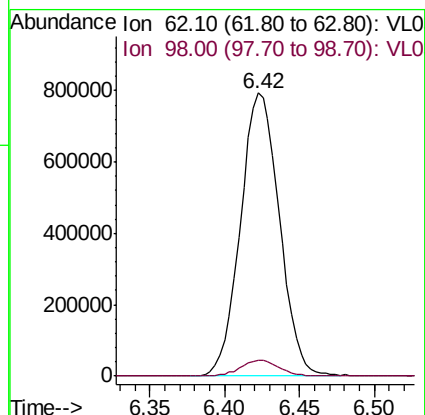
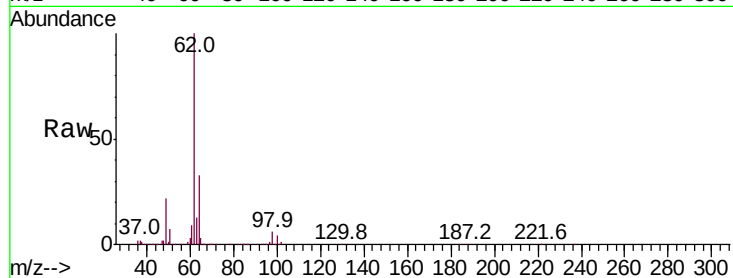
Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 62 Resp: 1436660

Ion	Ratio	Lower	Upper
62	100		
98	5.7	4.3	6.5



#38

Trichloroethene

Concen: 9.744 ppbv

RT: 7.97 min Scan# 1566

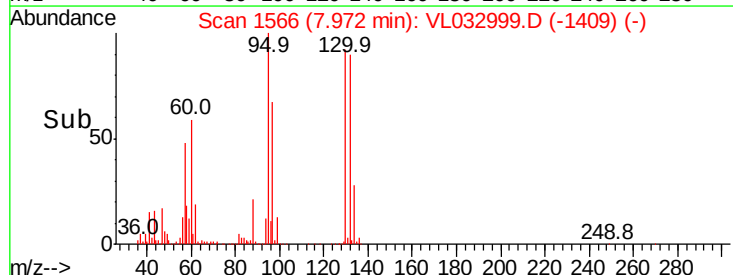
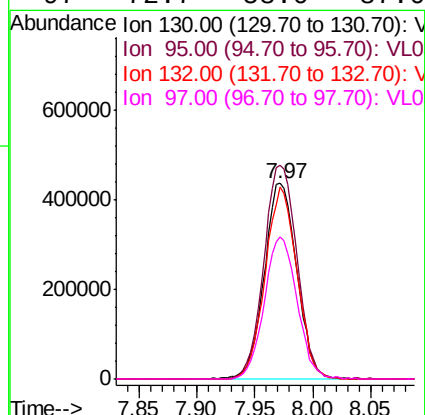
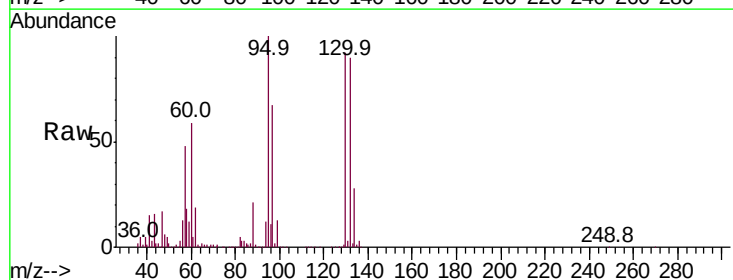
Delta R.T. 0.00 min

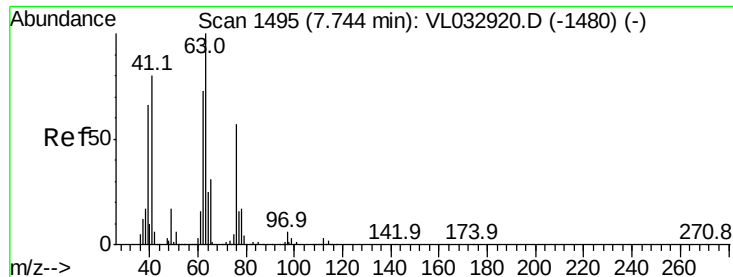
Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Tgt Ion:130 Resp: 852974

Ion	Ratio	Lower	Upper
130	100		
95	109.1	88.6	132.8
132	97.9	76.1	114.1
97	72.7	58.0	87.0





#39

1,2-Dichloropropane

Concen: 9.437 ppbv

RT: 7.75 min Scan# 1496

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_L

ClientSampleId :

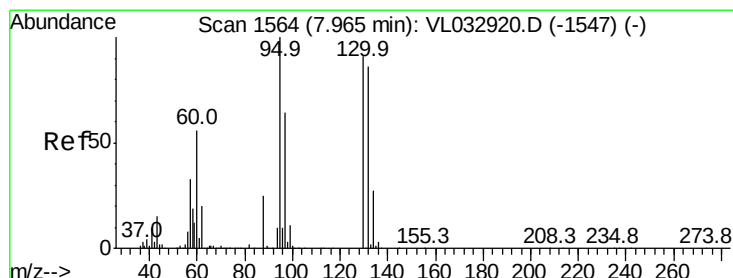
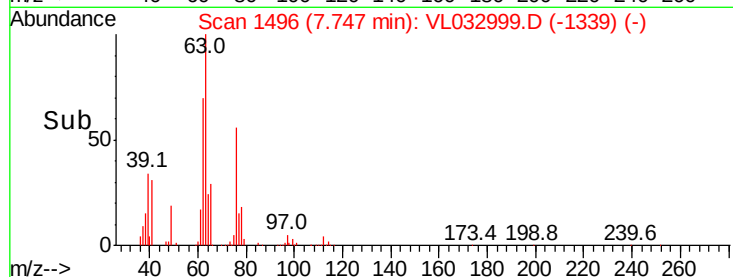
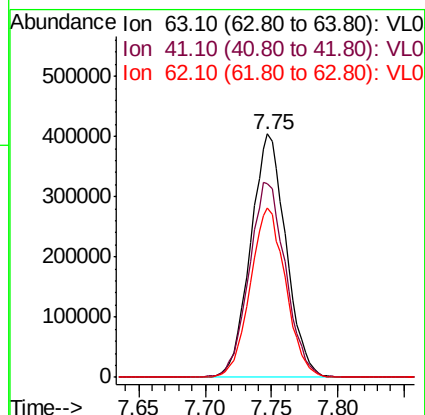
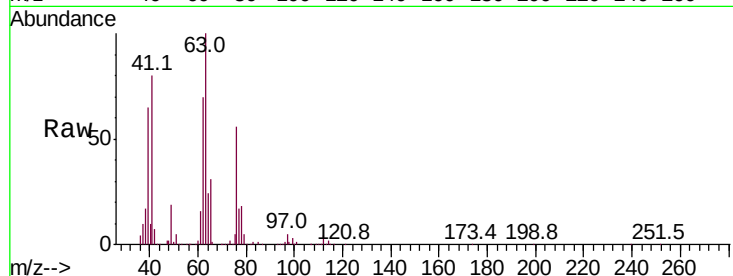
Tot Ion: 63 Resp: 752816

Ion Ratio Lower Upper

63 100

41 79.7 63.9 95.9

62 69.8 58.8 88.2



#40

1,4-Dioxane

Concen: 9.080 ppbv

RT: 7.97 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Tgt Ion: 88 Resp: 266803

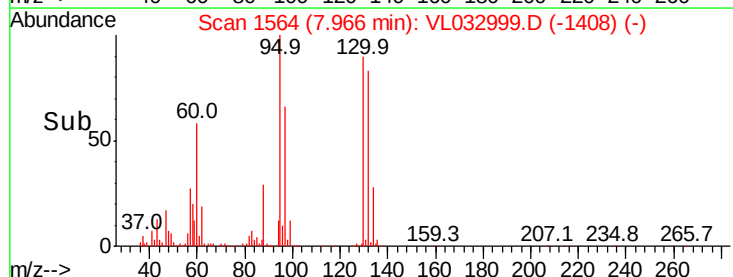
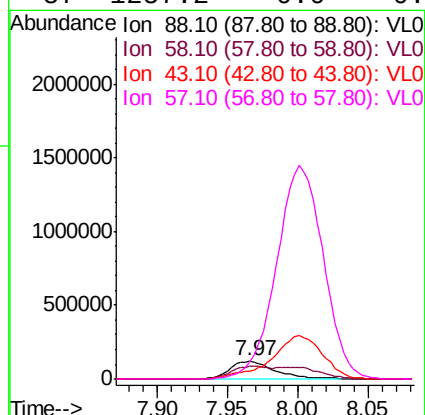
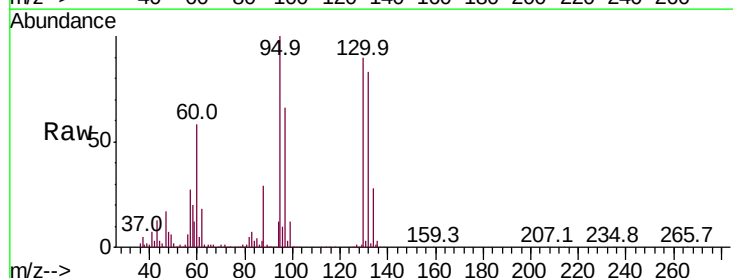
Ion Ratio Lower Upper

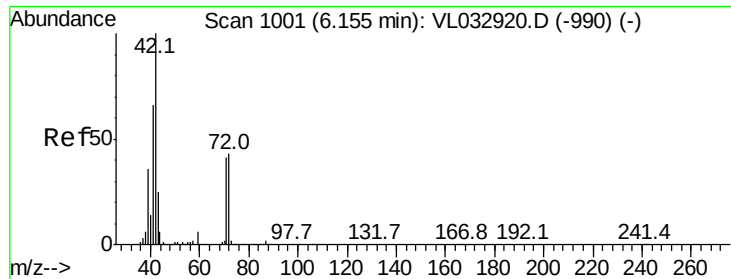
88 100

58 126.7 107.4 161.2

43 276.6 0.0 0.0#

57 1257.2 0.0 0.0#

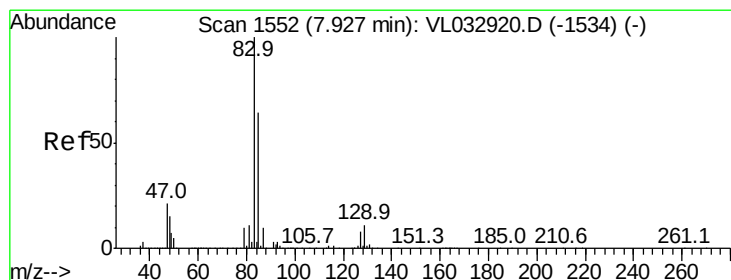
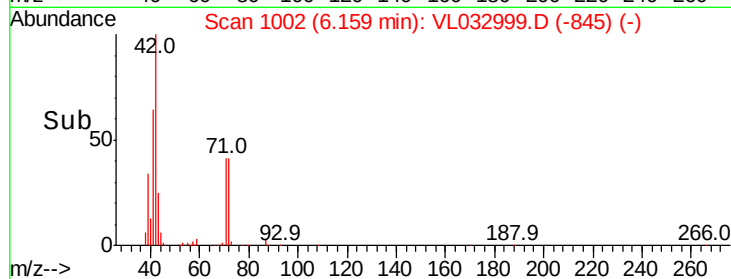
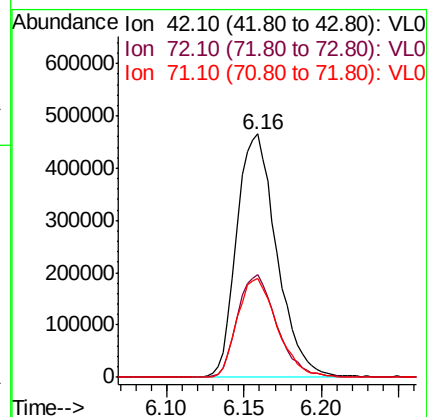
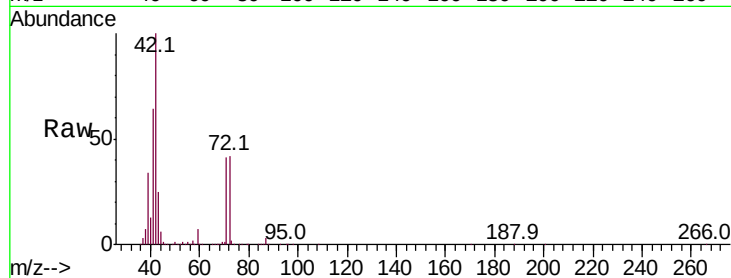




#41
Tetrahydrofuran
Concen: 10.779 ppbv
RT: 6.16 min Scan# 1002
Delta R.T. 0.00 min
Lab File: VL032999.D
Acq: 17 Dec 2018 15:11

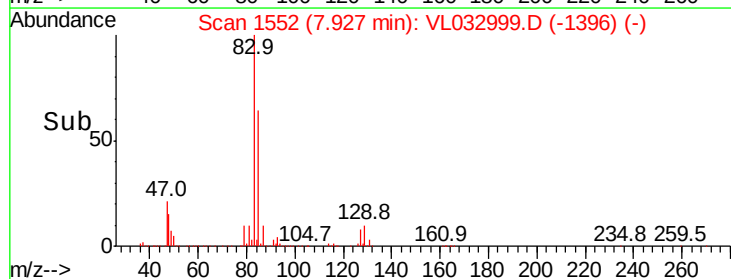
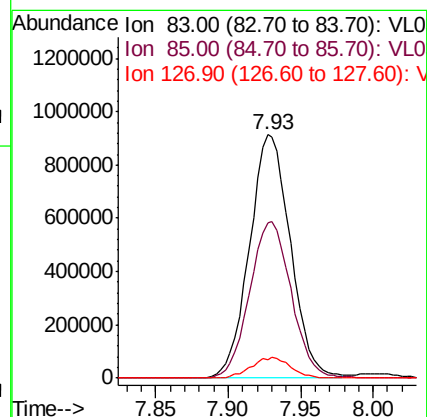
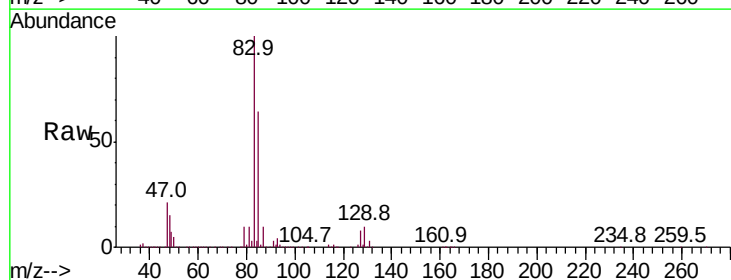
Instrument :
MSVOA_L
ClientSampleId :

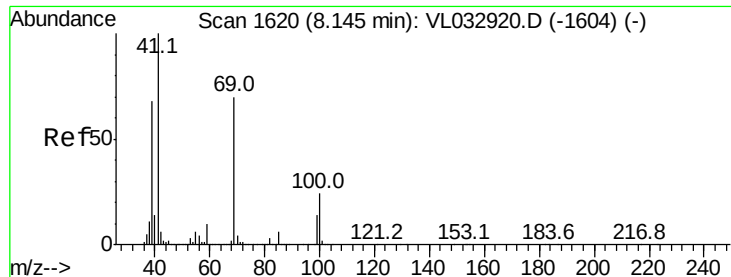
Tot Ion	Ratio	Lower	Upper
42	100		
72	41.7	32.9	49.3
71	40.6	32.0	48.0



#42
Bromodichloromethane
Concen: 9.038 ppbv
RT: 7.93 min Scan# 1552
Delta R.T. 0.00 min
Lab File: VL032999.D
Acq: 17 Dec 2018 15:11

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.5	50.9	76.3
127	7.7	6.7	10.1





#43

Methyl Methacrylate

Concen: 9.791 ppbv

RT: 8.15 min Scan# 1621

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Instrument :
MSVOA_L
ClientSampled :

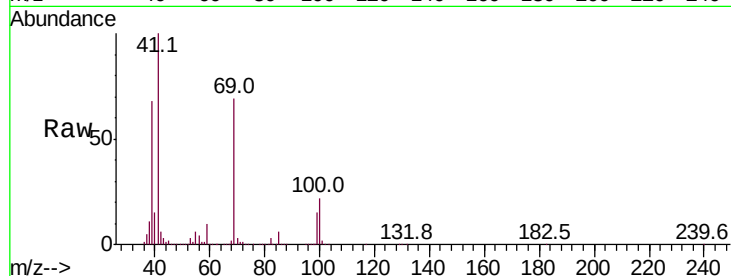
Tot Ion: 69 Resp: 763128

Ion Ratio Lower Upper

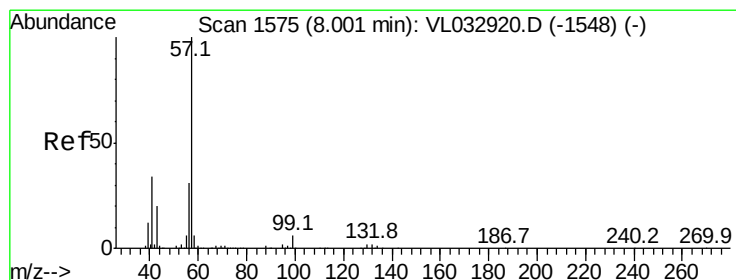
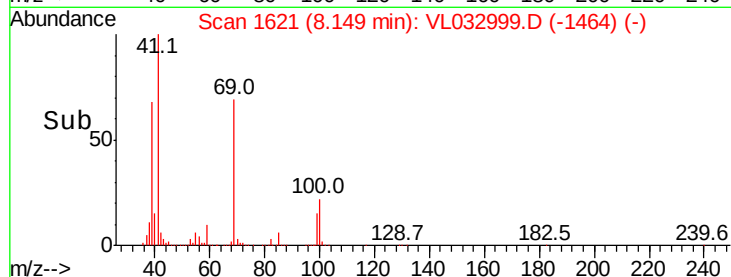
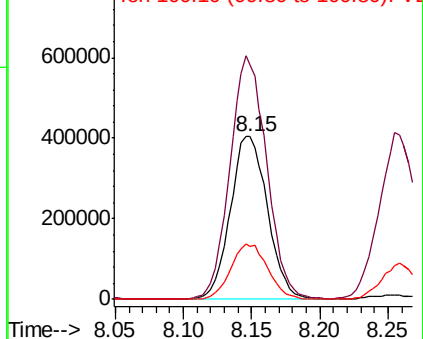
69 100

41 147.7 116.6 175.0

100 34.1 26.5 39.7



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: 9.382 ppbv

RT: 8.00 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

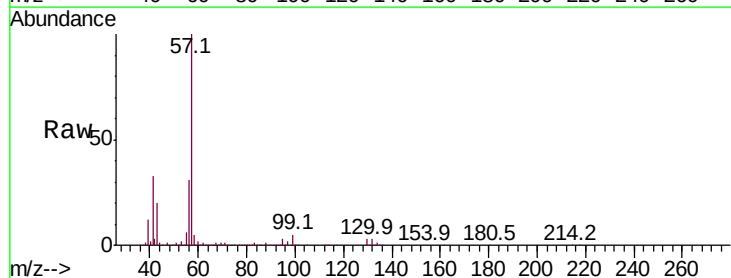
Tgt Ion: 57 Resp: 3349862

Ion Ratio Lower Upper

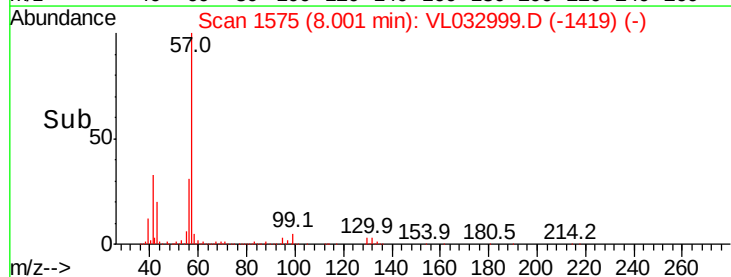
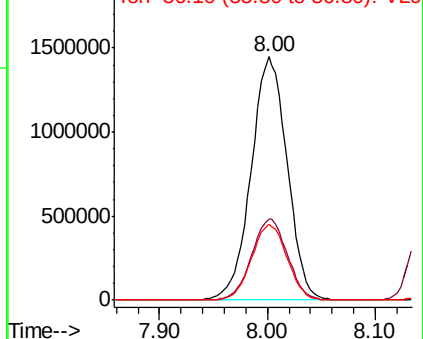
57 100

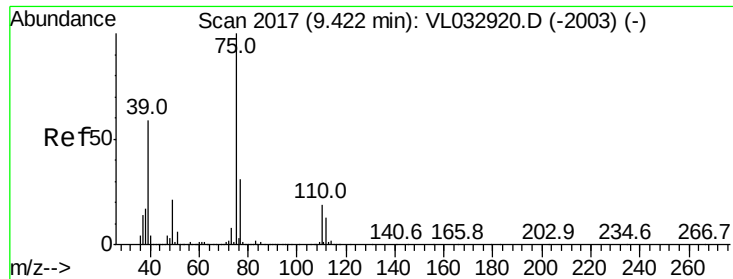
41 32.9 27.0 40.4

56 30.8 24.6 37.0



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: 12.586 ppbv

RT: 9.43 min Scan# 2019

Delta R.T. 0.01 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_L

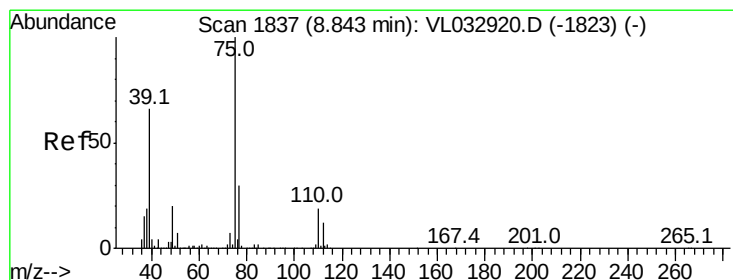
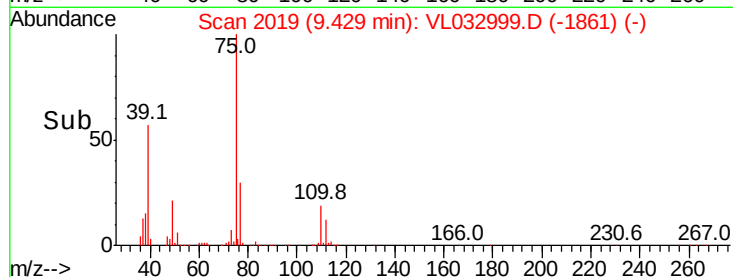
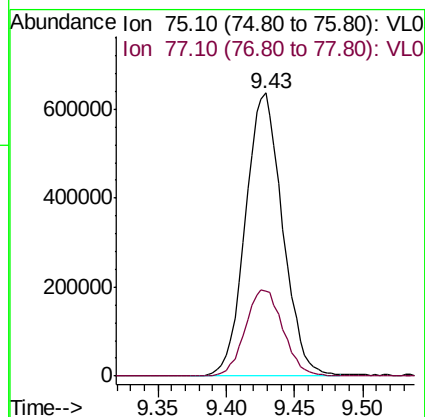
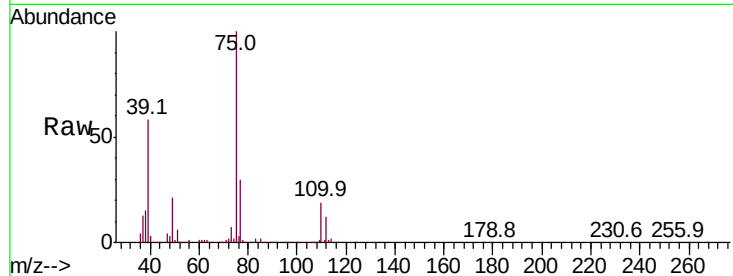
ClientSampleId :

Tot Ion: 75 Resp: 1202832

Ion Ratio Lower Upper

75 100

77 30.1 24.8 37.2



#46

cis-1,3-Dichloropropene

Concen: 11.622 ppbv

RT: 8.85 min Scan# 1838

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

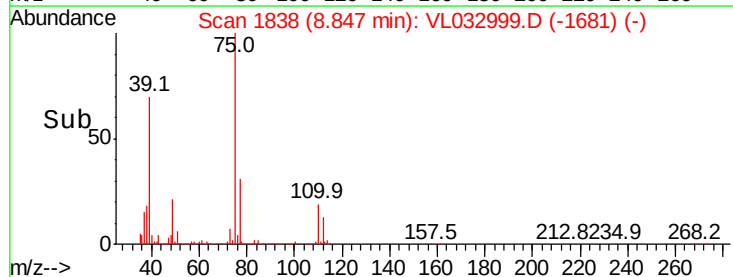
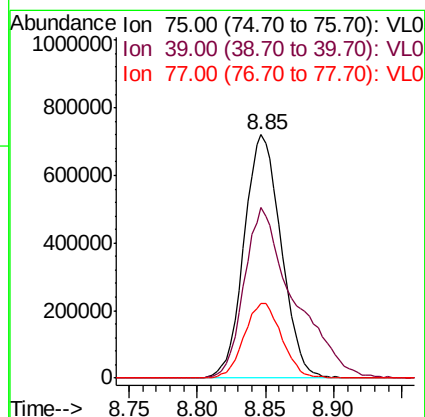
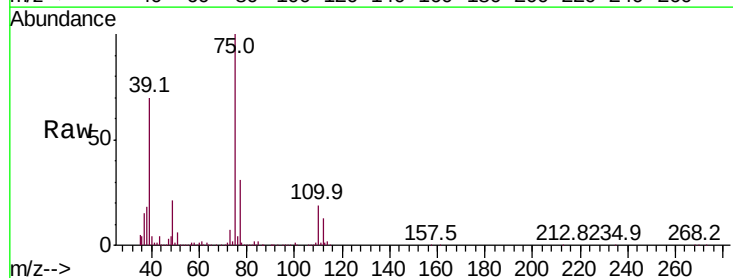
Tgt Ion: 75 Resp: 1359416

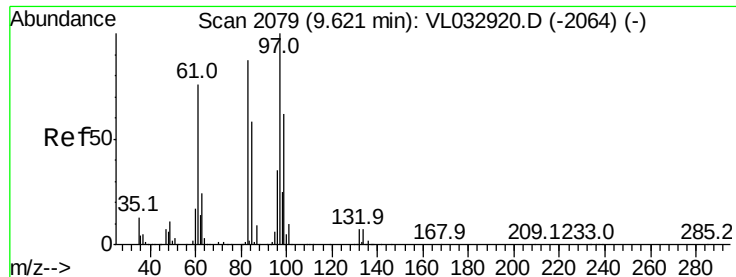
Ion Ratio Lower Upper

75 100

39 70.1 52.8 79.2

77 30.6 24.3 36.5





#47

1,1,2-Trichloroethane

Concen: 10.274 ppbv

RT: 9.63 min Scan# 2081

Delta R.T. 0.01 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 97 Resp: 902135

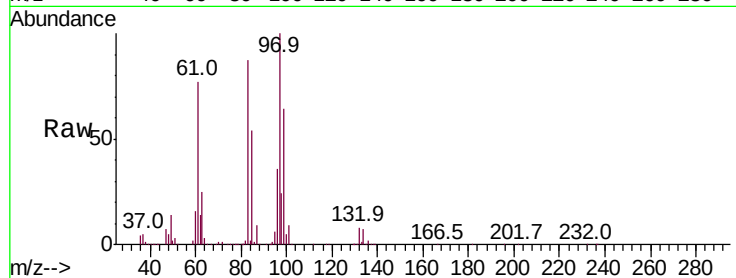
Ion Ratio Lower Upper

97 100

83 87.1 69.8 104.8

85 53.5 46.7 70.1

99 64.2 49.2 73.8

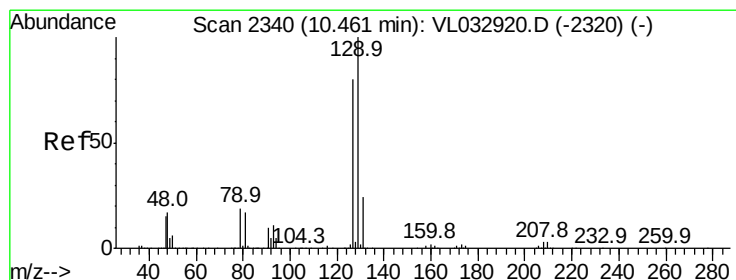
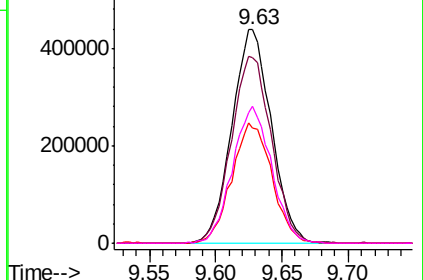
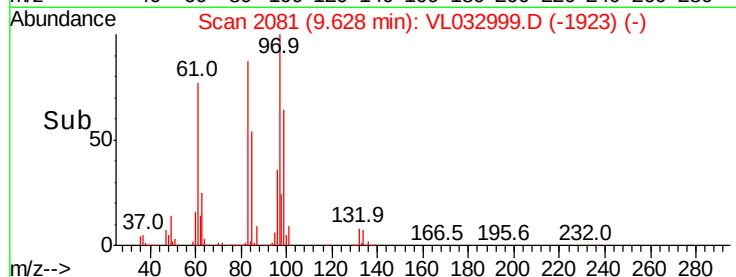


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 8.348 ppbv

RT: 10.46 min Scan# 2341

Delta R.T. 0.00 min

Lab File: VL032999.D

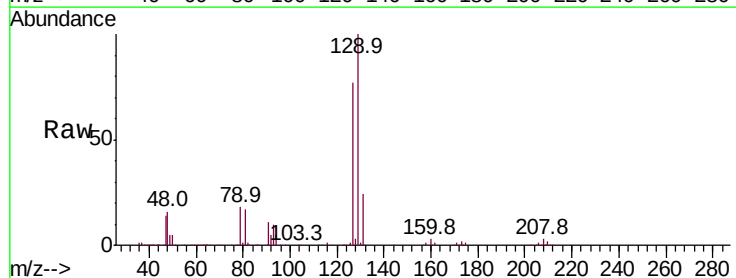
Acq: 17 Dec 2018 15:11

Tgt Ion: 129 Resp: 1375098

Ion Ratio Lower Upper

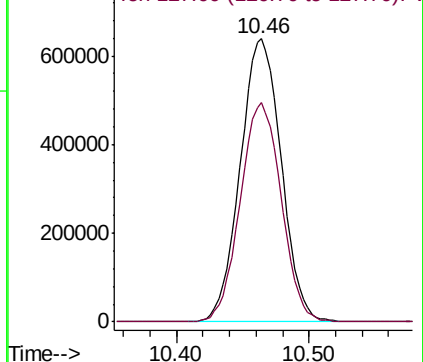
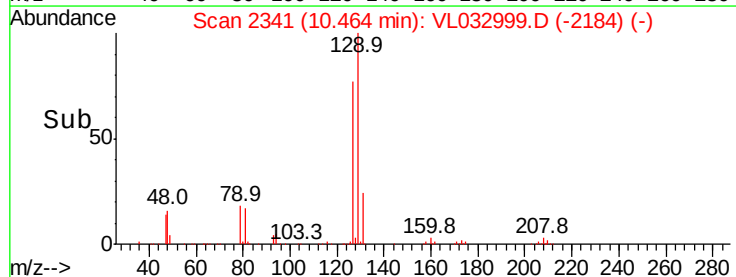
129 100

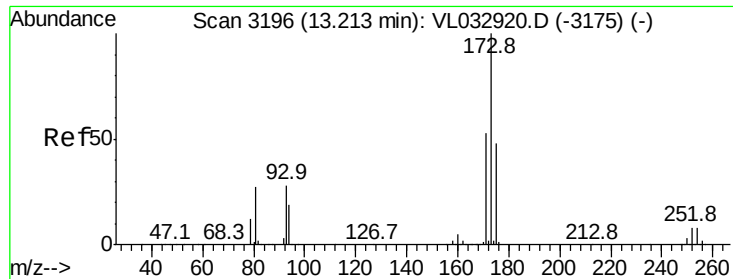
127 77.8 39.3 117.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 11.231 ppbv

RT: 13.22 min Scan# 3198

Delta R.T. 0.01 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_L

ClientSampled :

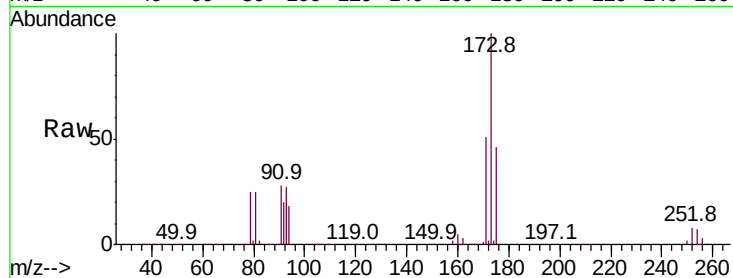
Tot Ion:173 Resp: 1521590

Ion Ratio Lower Upper

173 100

175 48.6 39.0 58.4

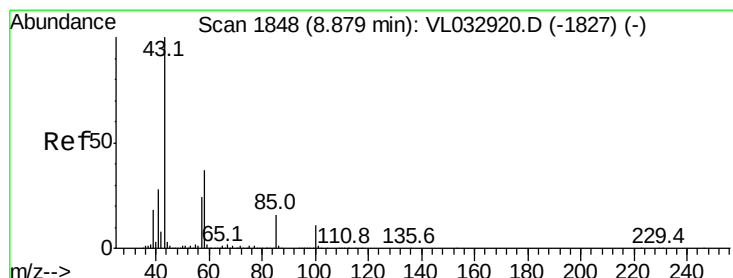
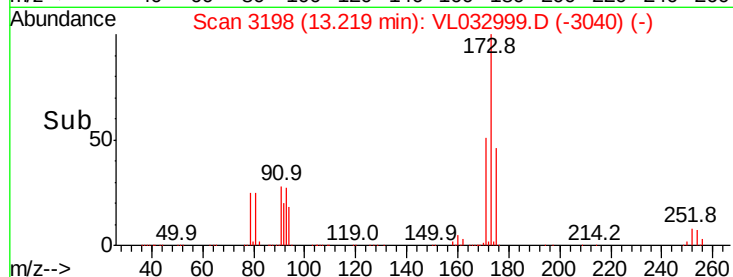
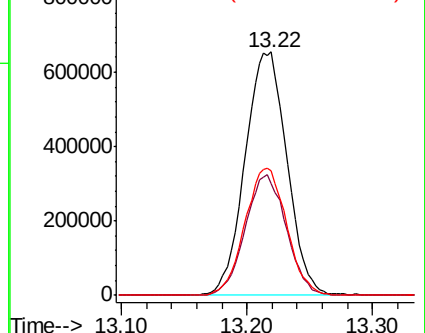
171 52.2 41.5 62.3



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.339 ppbv

RT: 8.88 min Scan# 1848

Delta R.T. 0.00 min

Lab File: VL032999.D

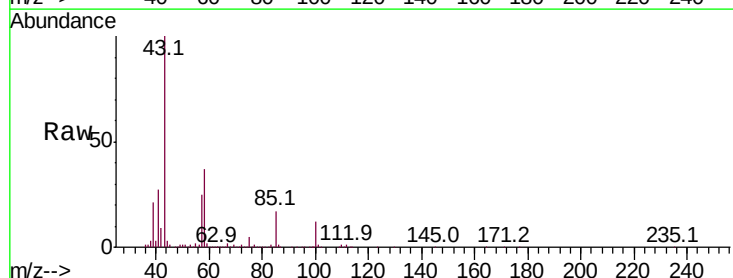
Acq: 17 Dec 2018 15:11

Tgt Ion: 43 Resp: 2059492

Ion Ratio Lower Upper

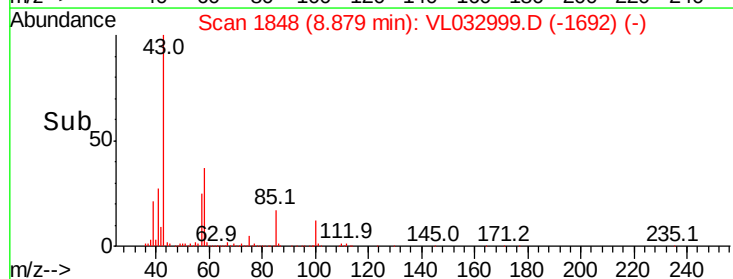
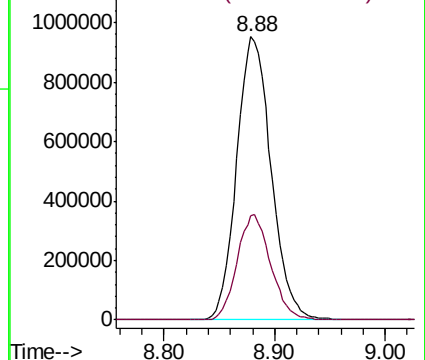
43 100

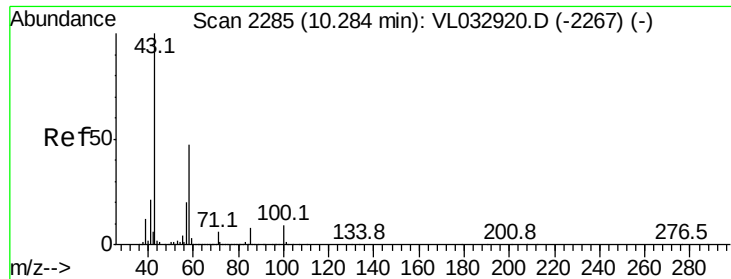
58 36.3 29.0 43.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

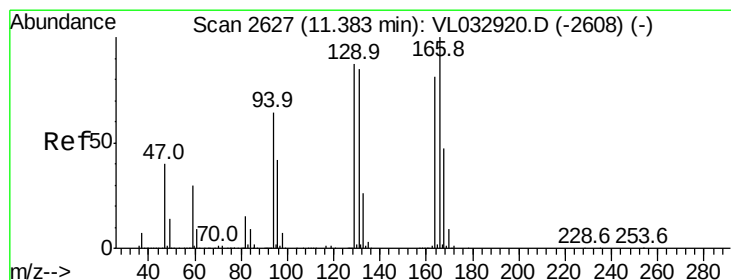
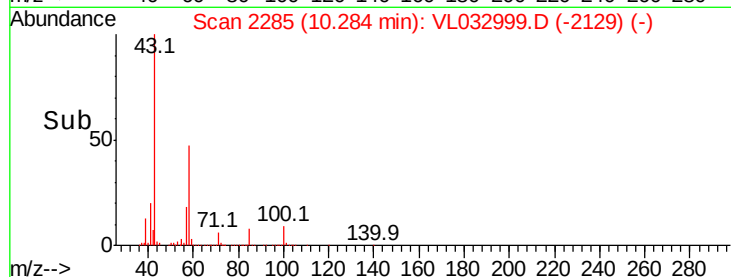
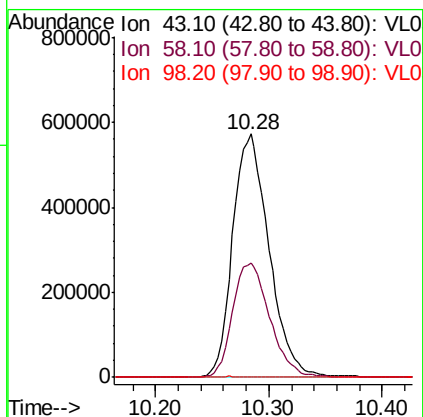
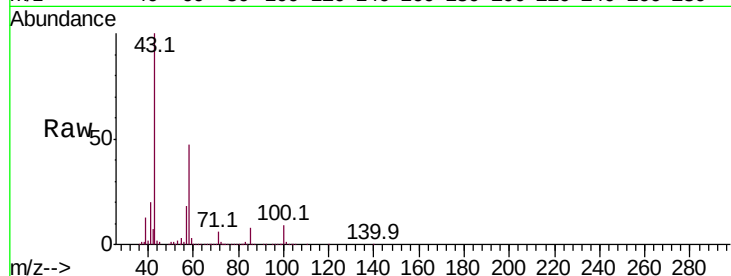




#51
2-Hexanone
Concen: 9.449 ppbv
RT: 10.28 min Scan# 2285
Delta R.T. 0.00 min
Lab File: VL032999.D
Acq: 17 Dec 2018 15:11

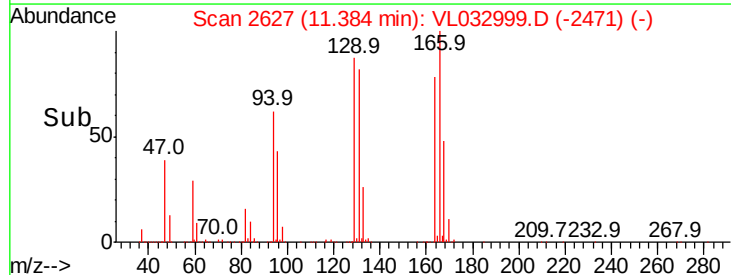
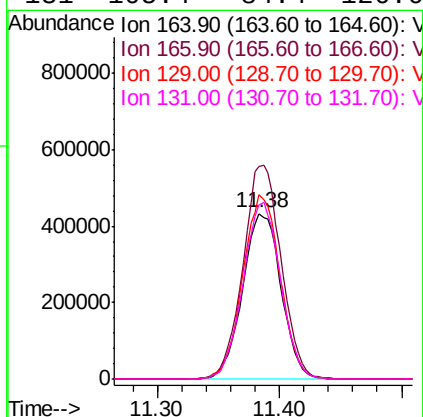
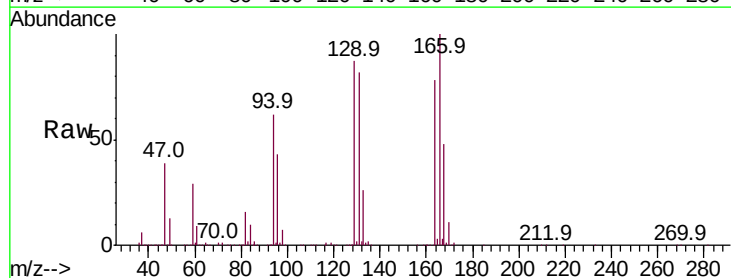
Instrument :
MSVOA_L
ClientSampleId :

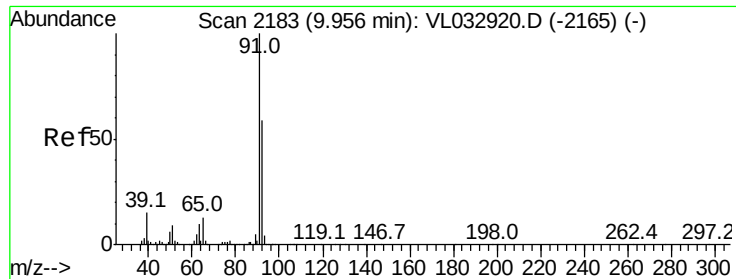
Tot Ion: 43 Resp: 1276556
Ion Ratio Lower Upper
43 100
58 48.5 38.1 57.1
98 0.5 0.4 0.6



#52
Tetrachloroethene
Concen: 12.238 ppbv
RT: 11.38 min Scan# 2627
Delta R.T. 0.00 min
Lab File: VL032999.D
Acq: 17 Dec 2018 15:11

Tgt Ion:164 Resp: 936386
Ion Ratio Lower Upper
164 100
166 128.4 98.8 148.2
129 111.5 85.5 128.3
131 105.4 84.4 126.6





#53

Toluene

Concen: 8.996 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_L

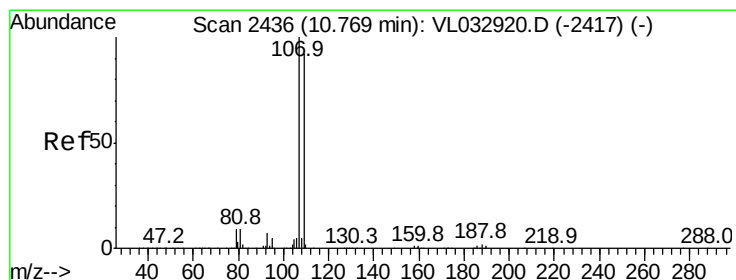
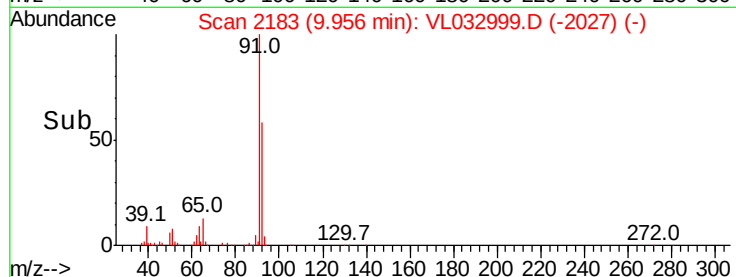
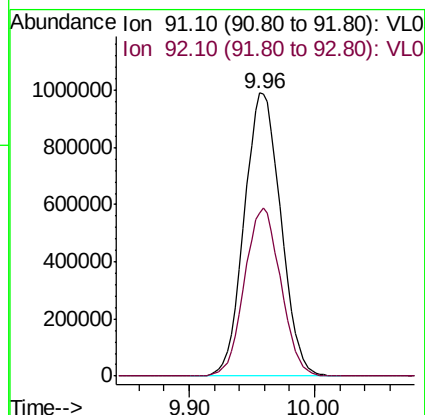
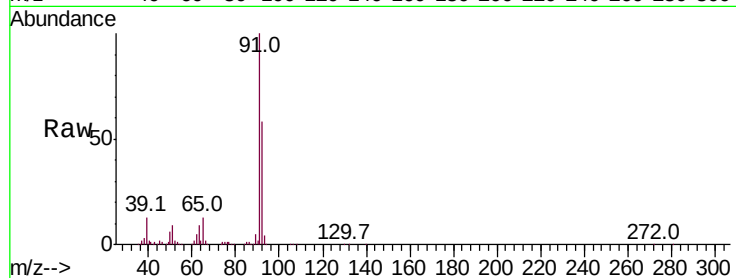
ClientSampled :

Tot Ion: 91 Resp: 2006965

Ion Ratio Lower Upper

91 100

92 58.9 47.4 71.0



#54

1,2-Dibromoethane

Concen: 8.127 ppbv

RT: 10.77 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VL032999.D

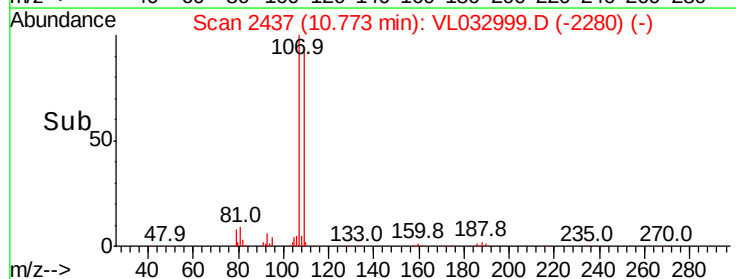
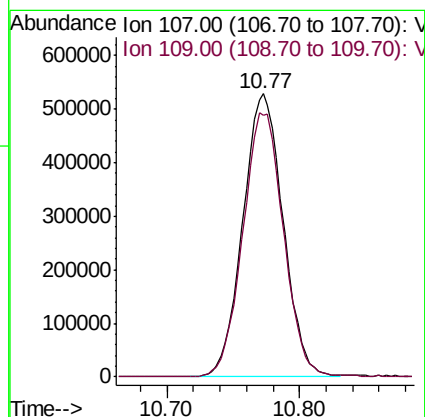
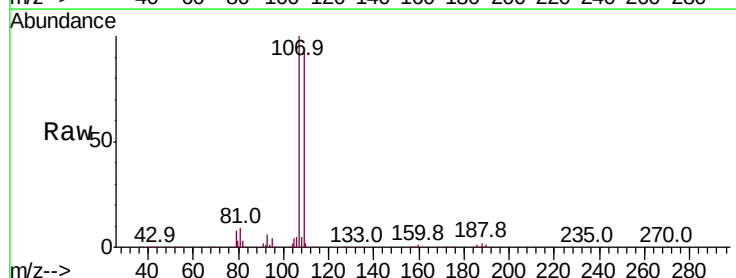
Acq: 17 Dec 2018 15:11

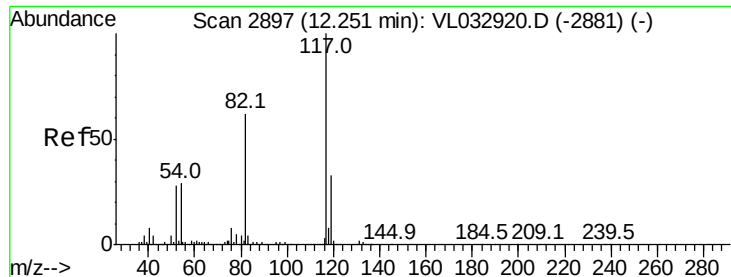
Tgt Ion: 107 Resp: 1114812

Ion Ratio Lower Upper

107 100

109 92.3 73.4 110.2

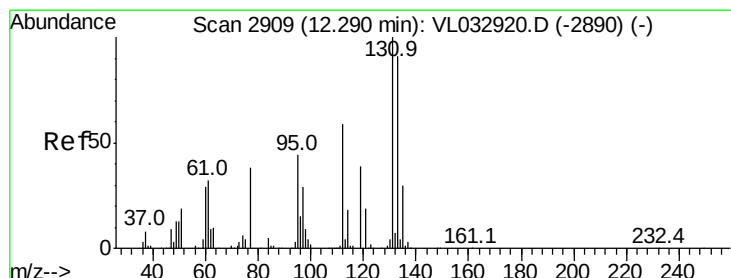
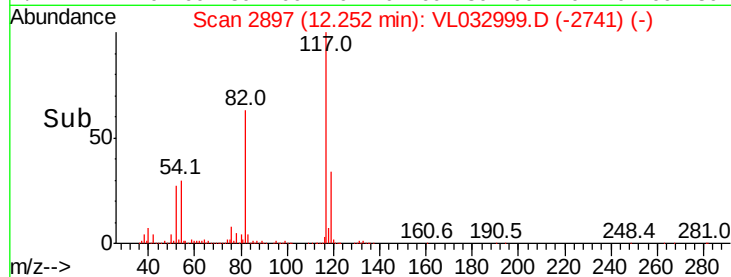
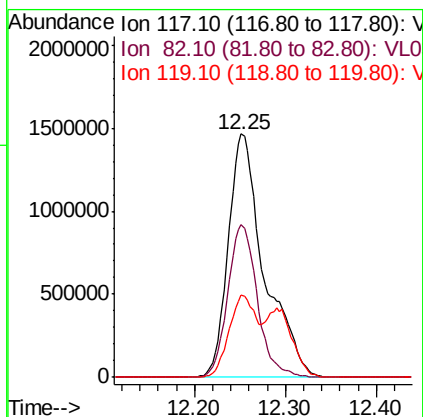
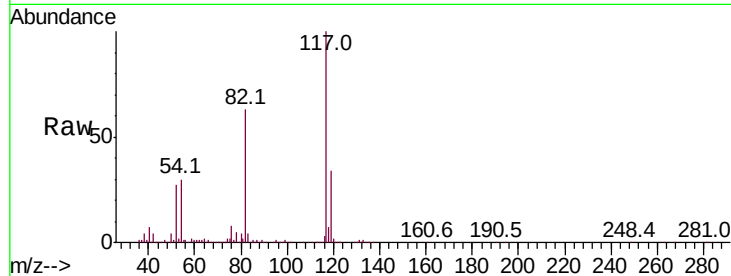




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2897
Delta R.T. 0.00 min
Lab File: VL032999.D
Acq: 17 Dec 2018 15:11

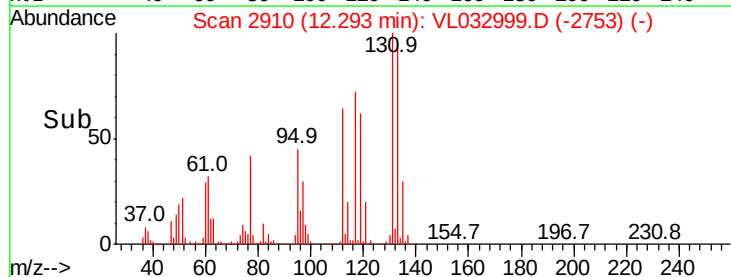
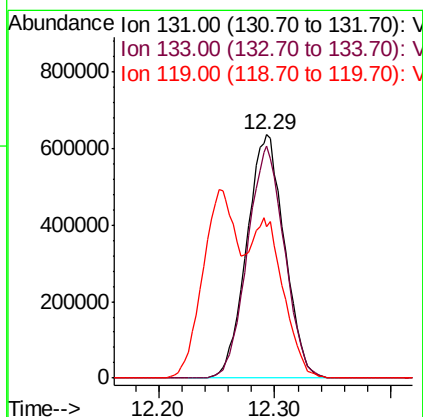
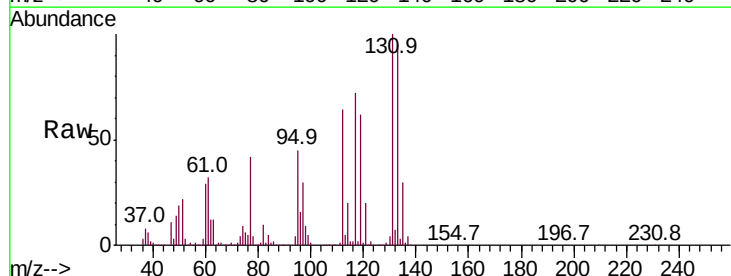
Instrument :
MSVOA_L
ClientSampleId :

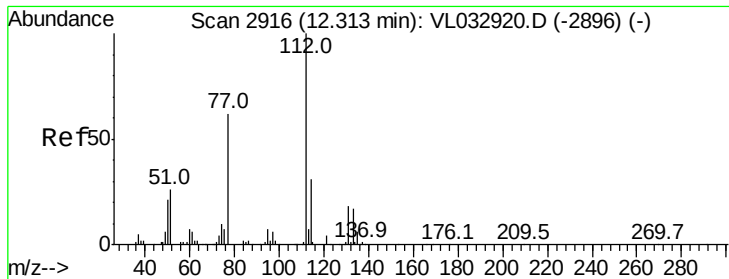
Tot Ion:117 Resp: 4032206
Ion Ratio Lower Upper
117 100
82 51.5 47.8 71.8
119 27.8 43.1 64.7#



#56
1,1,1,2-Tetrachloroethane
Concen: 7.992 ppbv
RT: 12.29 min Scan# 2910
Delta R.T. 0.00 min
Lab File: VL032999.D
Acq: 17 Dec 2018 15:11

Tgt Ion:131 Resp: 1436767
Ion Ratio Lower Upper
131 100
133 93.7 75.1 112.7
119 62.1 47.5 71.3

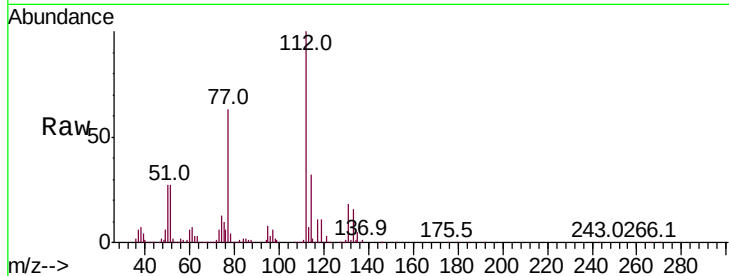




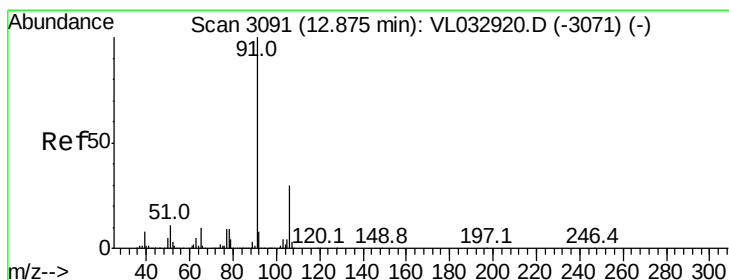
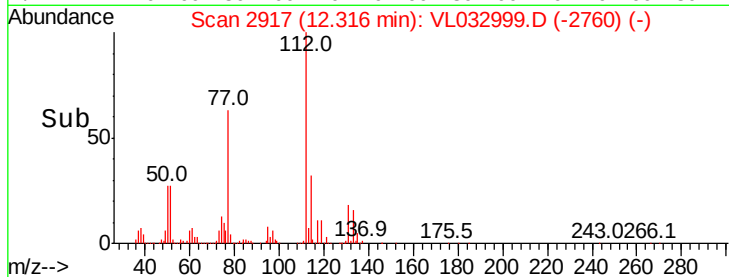
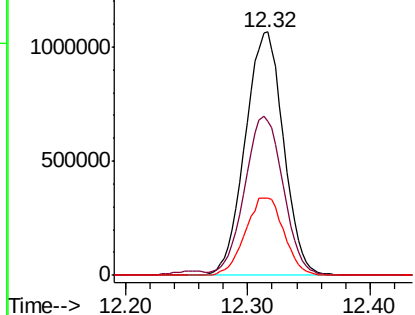
#57
Chlorobenzene
Concen: 7.917 ppbv
RT: 12.32 min Scan# 2917
Delta R.T. 0.00 min
Lab File: VL032999.D
Acq: 17 Dec 2018 15:11

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:112 Resp: 2305528
Ion Ratio Lower Upper
112 100
77 63.1 51.1 76.7
114 31.7 28.4 34.7

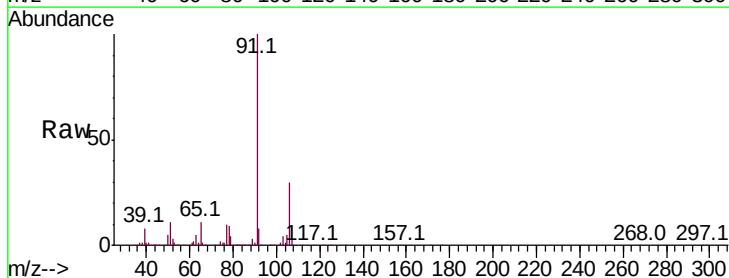


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

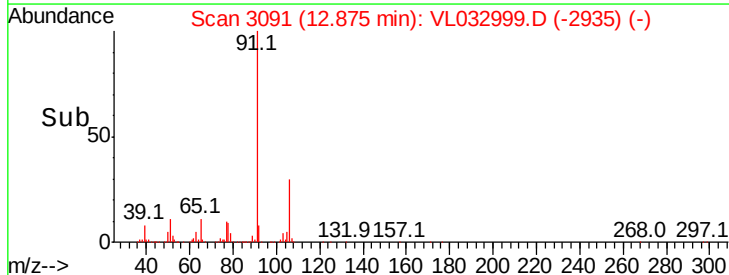
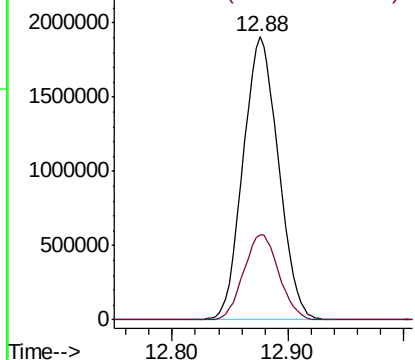


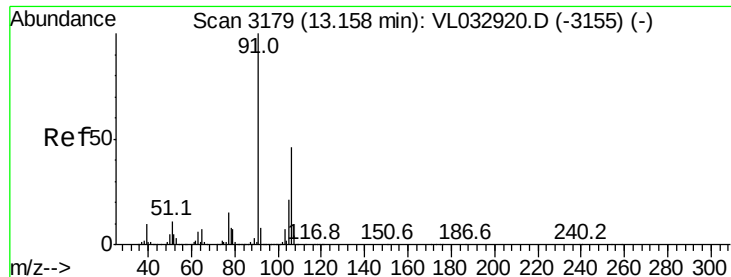
#58
Ethyl Benzene
Concen: 9.392 ppbv
RT: 12.88 min Scan# 3091
Delta R.T. 0.00 min
Lab File: VL032999.D
Acq: 17 Dec 2018 15:11

Tgt Ion: 91 Resp: 4039979
Ion Ratio Lower Upper
91 100
106 30.2 23.9 35.9



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

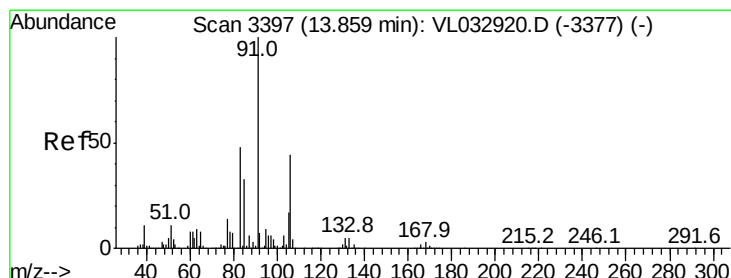
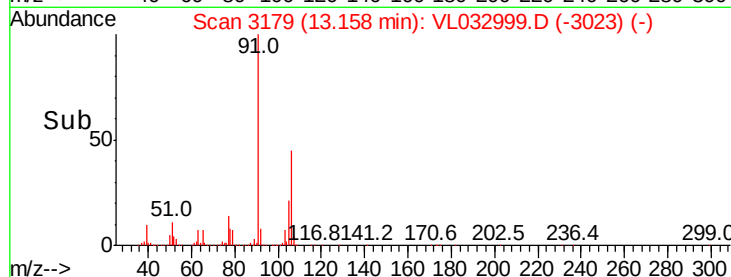
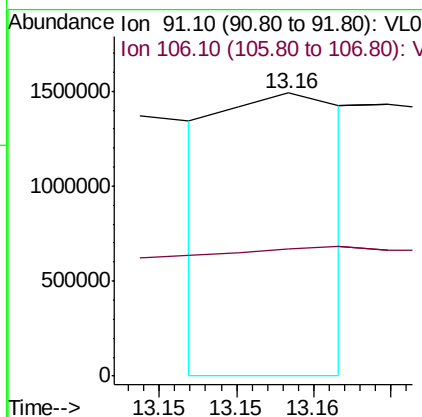
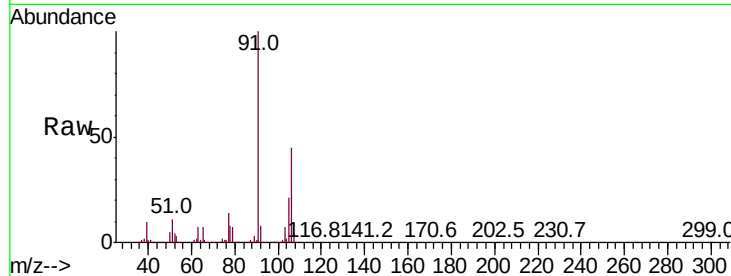




#59
m/p-Xylene
Concen: 2.141 ppbv
RT: 13.16 min Scan# 3179
Delta R.T. 0.00 min
Lab File: VL032999.D
Acq: 17 Dec 2018 15:11

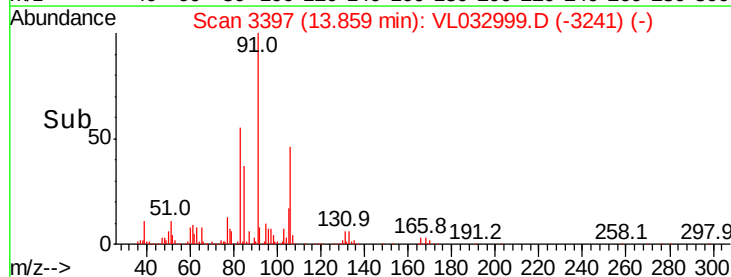
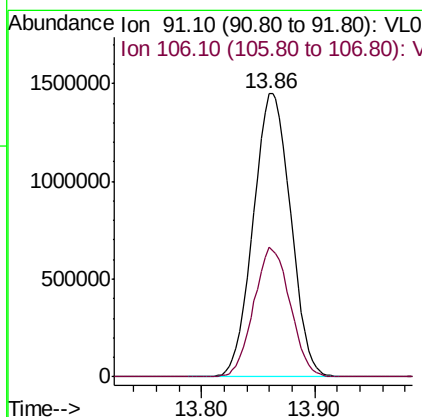
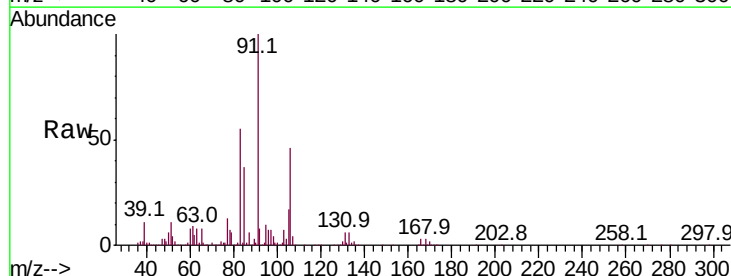
Instrument :
MSVOA_L
ClientSampleId :

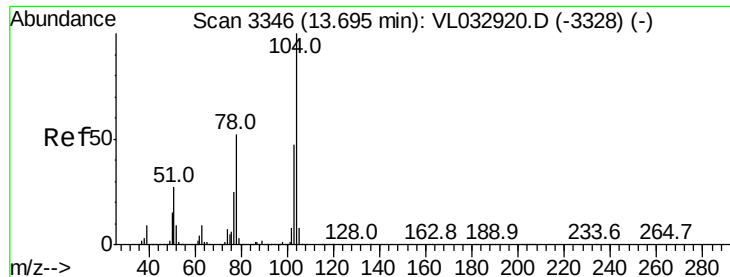
Tot Ion: 91 Resp: 834947
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0



#60
o-Xylene
Concen: 8.441 ppbv
RT: 13.86 min Scan# 3397
Delta R.T. 0.00 min
Lab File: VL032999.D
Acq: 17 Dec 2018 15:11

Tgt Ion: 91 Resp: 3324204
Ion Ratio Lower Upper
91 100
106 44.4 21.9 65.8





#61

Stvrene

Concen: 9.370 ppbv

RT: 13.70 min Scan# 3347

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_L

ClientSampleId :

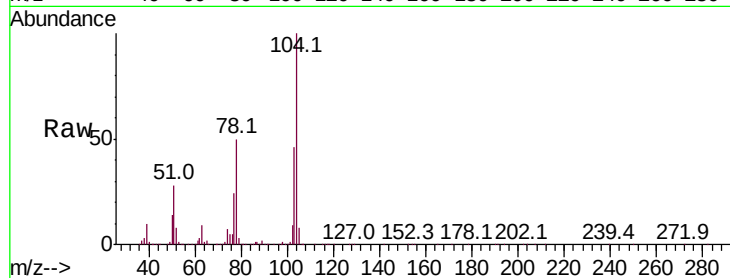
Tot Ion:104 Resp: 2454755

Ion Ratio Lower Upper

104 100

78 52.7 42.0 63.0

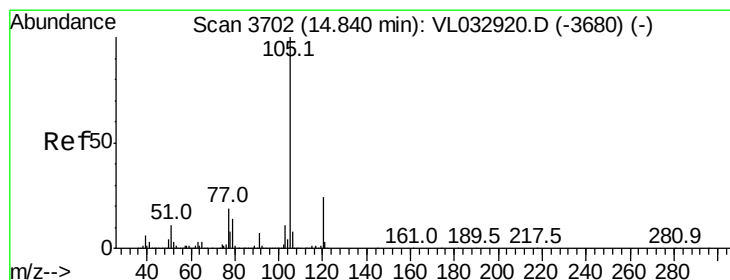
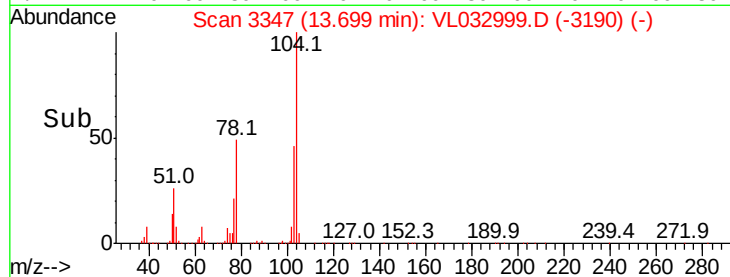
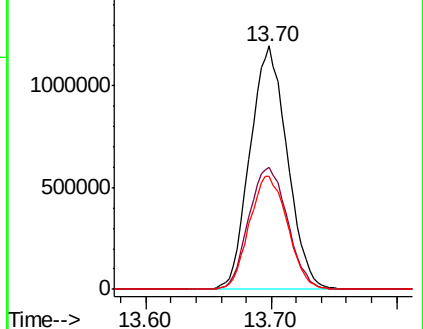
103 48.1 38.3 57.5



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: 8.670 ppbv

RT: 14.84 min Scan# 3702

Delta R.T. 0.00 min

Lab File: VL032999.D

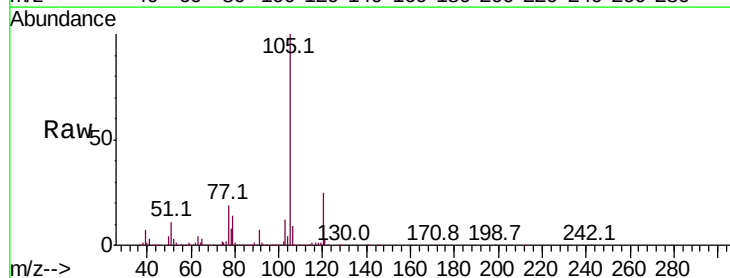
Acq: 17 Dec 2018 15:11

Tgt Ion:105 Resp: 4763689

Ion Ratio Lower Upper

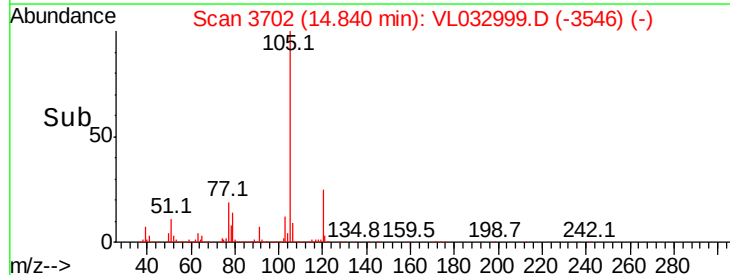
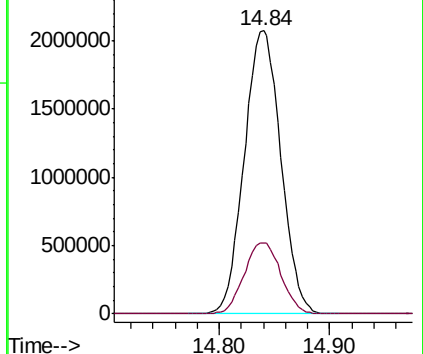
105 100

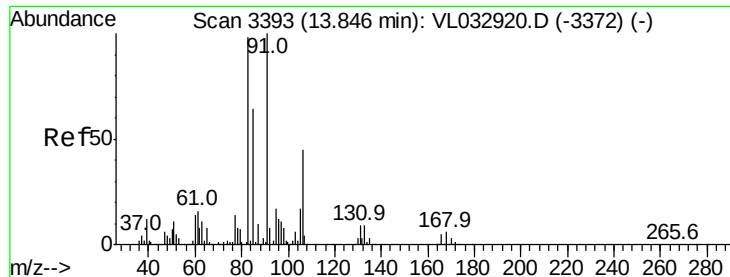
120 25.4 20.3 30.5



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: 7.473 ppbv

RT: 13.85 min Scan# 3394

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_L

ClientSampleId :

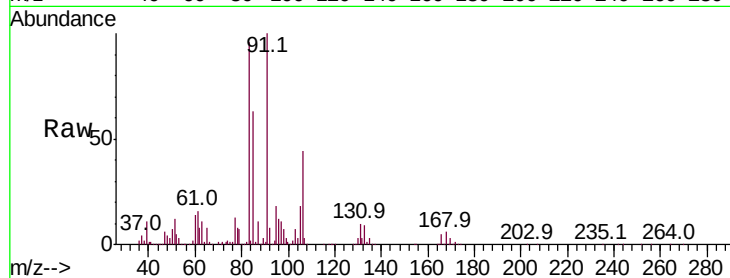
Tot Ion: 83 Resp: 2285245

Ion Ratio Lower Upper

83 100

131 9.9 4.9 14.6

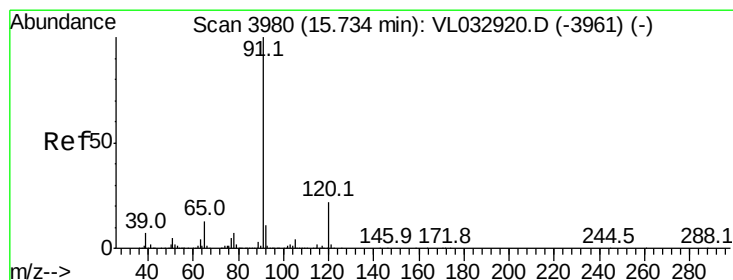
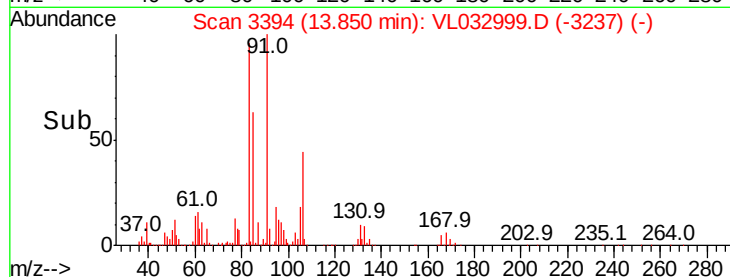
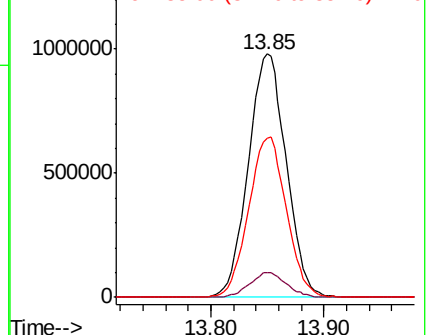
85 65.8 32.9 98.6



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: 8.542 ppbv

RT: 15.74 min Scan# 3981

Delta R.T. 0.00 min

Lab File: VL032999.D

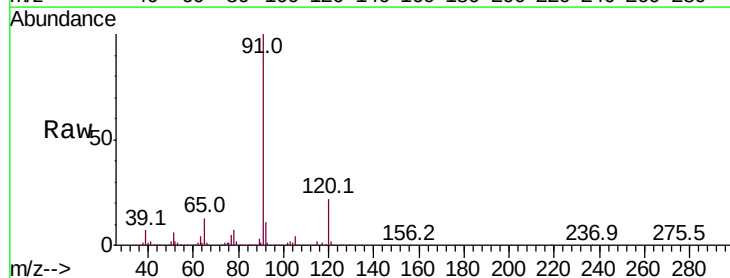
Acq: 17 Dec 2018 15:11

Tgt Ion:120 Resp: 1219069

Ion Ratio Lower Upper

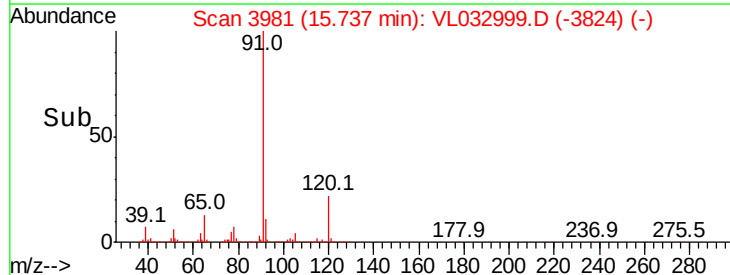
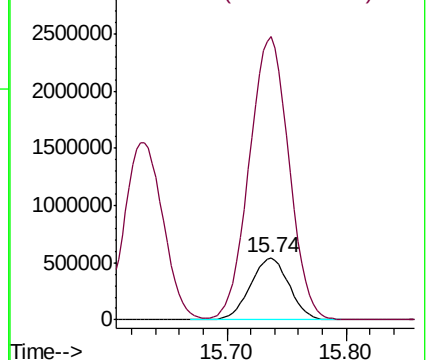
120 100

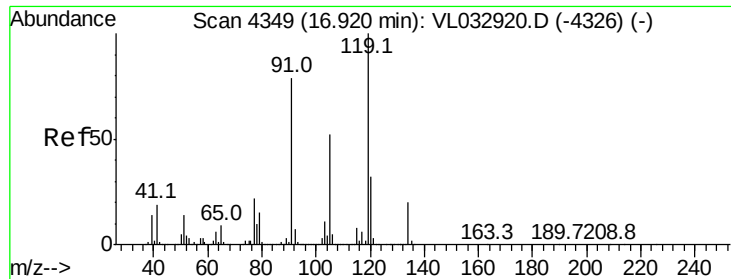
91 469.9 380.4 570.6



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 8.626 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_L

ClientSampleId :

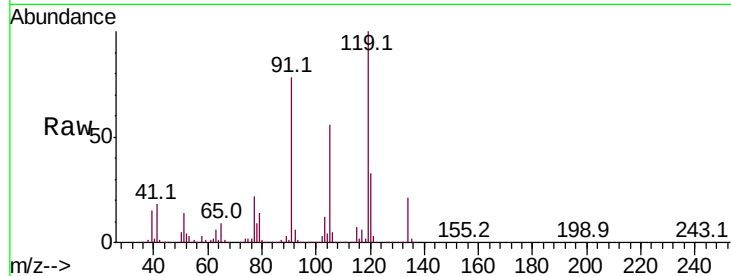
Tot Ion: 119 Resp: 4393835

Ion	Ratio	Lower	Upper
119	100		
91	80.2	64.5	96.7
134	19.8	15.7	23.5

119 100

91 80.2 64.5 96.7

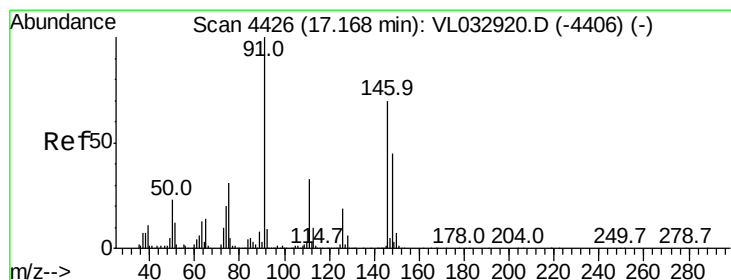
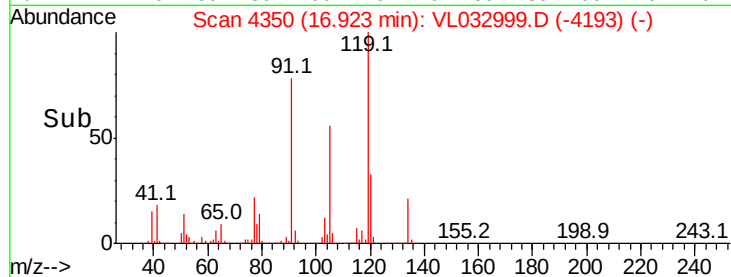
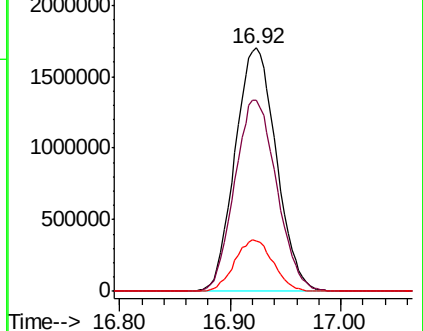
134 19.8 15.7 23.5



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: 9.116 ppbv

RT: 17.17 min Scan# 4427

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

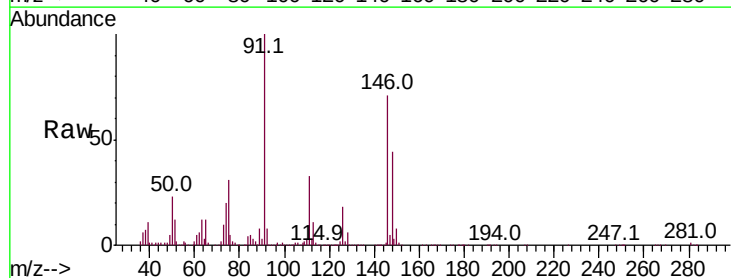
Tgt Ion: 91 Resp: 2573731

Ion	Ratio	Lower	Upper
91	100		
126	18.1	14.1	21.1
128	5.8	4.5	6.7

91 100

126 18.1 14.1 21.1

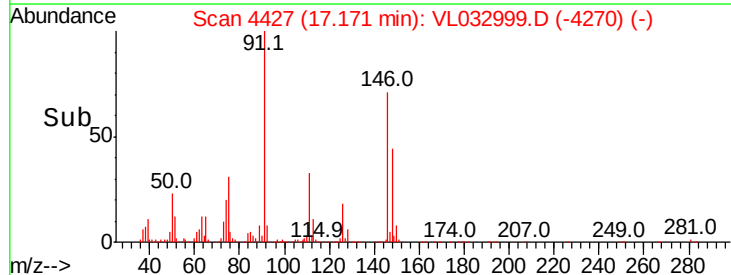
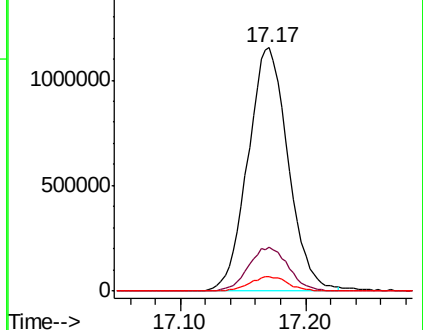
128 5.8 4.5 6.7

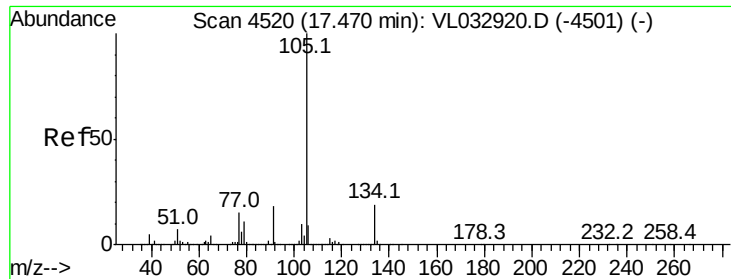


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.164 ppbv

RT: 17.47 min Scan# 4521

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_L

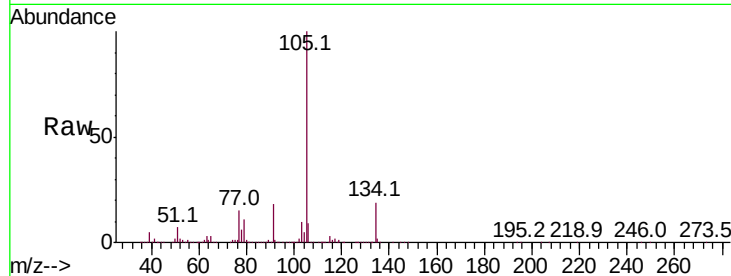
ClientSampled :

Tot Ion:105 Resp: 6130958

Ion Ratio Lower Upper

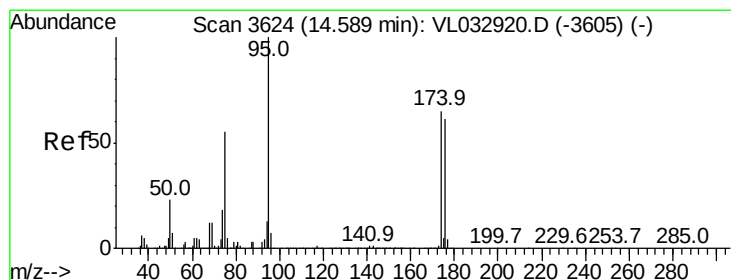
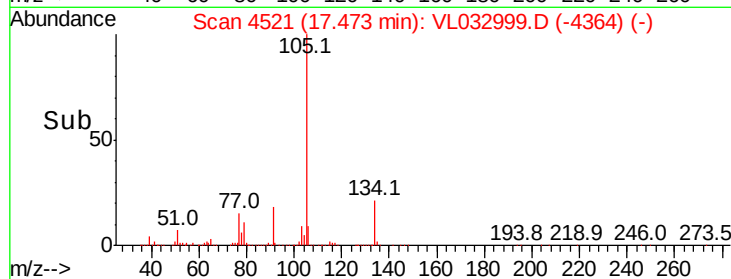
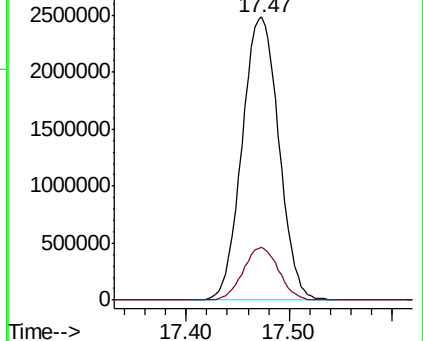
105 100

134 18.2 14.6 21.8



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: 8.327 ppbv

RT: 14.59 min Scan# 3624

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

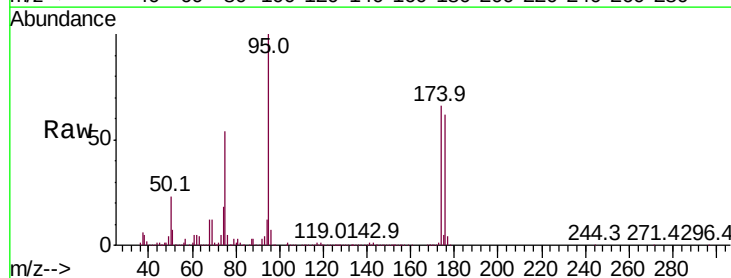
Tgt Ion: 95 Resp: 2480573

Ion Ratio Lower Upper

95 100

174 66.3 51.4 77.0

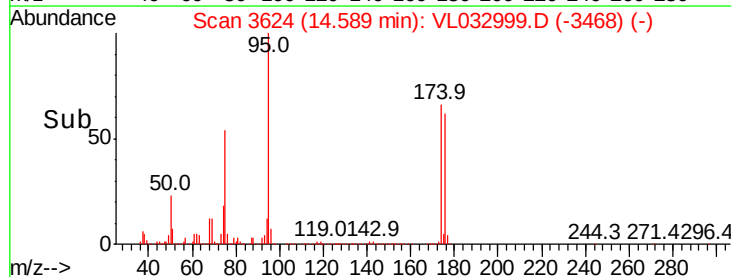
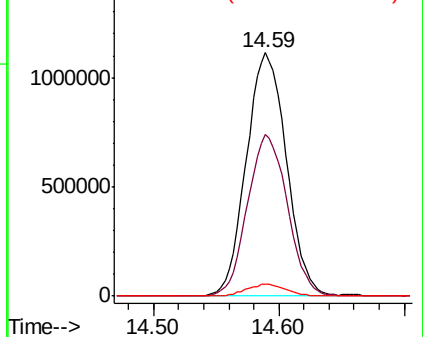
175 4.9 3.8 5.6

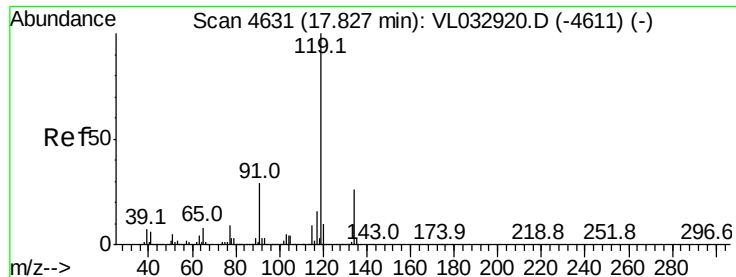


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



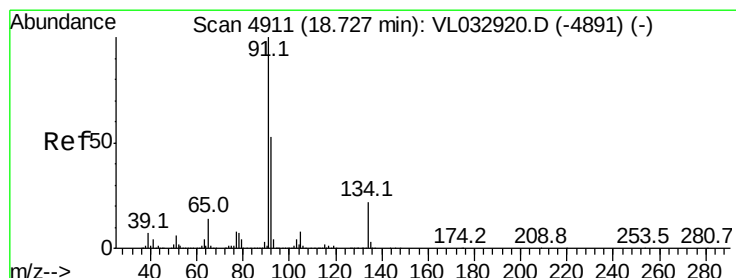
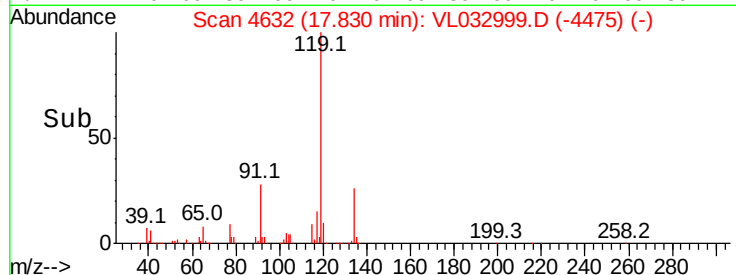
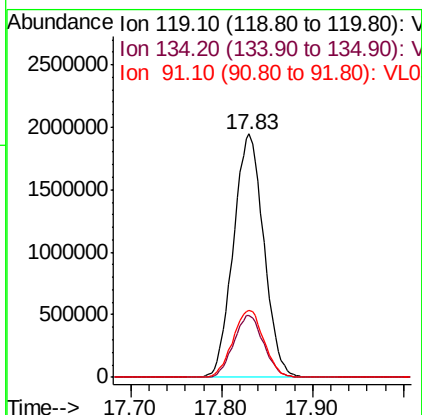
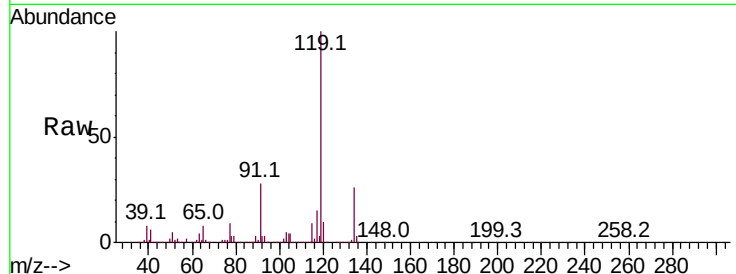


#69
 p-Isopropyltoluene
 Concen: 7.408 ppbv
 RT: 17.83 min Scan# 4632
 Delta R.T. 0.00 min
 Lab File: VL032999.D
 Acq: 17 Dec 2018 15:11

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:119 Resp: 4508677

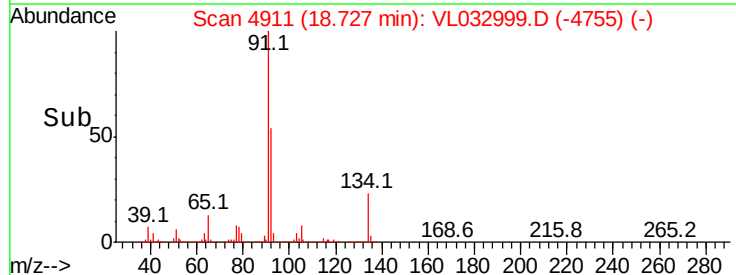
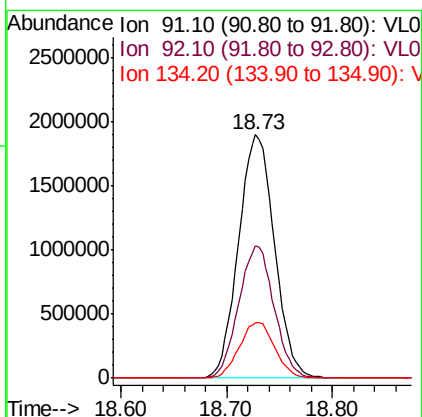
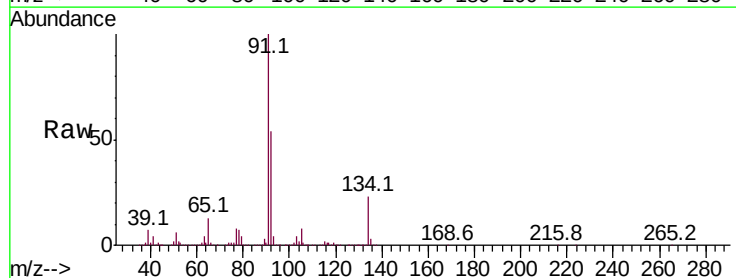
Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.2	30.2
91	28.3	22.9	34.3

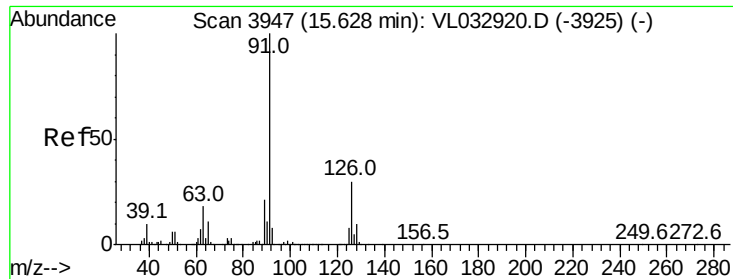


#70
 n-Butylbenzene
 Concen: 8.020 ppbv
 RT: 18.73 min Scan# 4911
 Delta R.T. 0.00 min
 Lab File: VL032999.D
 Acq: 17 Dec 2018 15:11

Tgt Ion: 91 Resp: 4490748

Ion	Ratio	Lower	Upper
91	100		
92	53.7	42.7	64.1
134	22.8	18.0	27.0

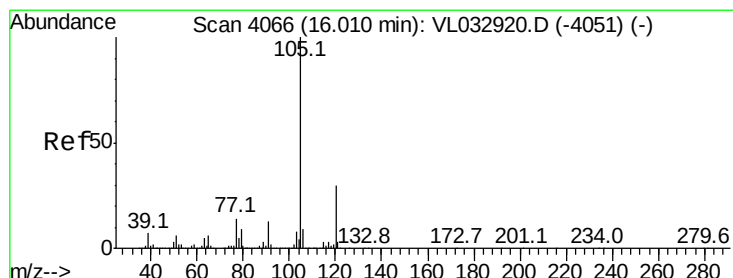
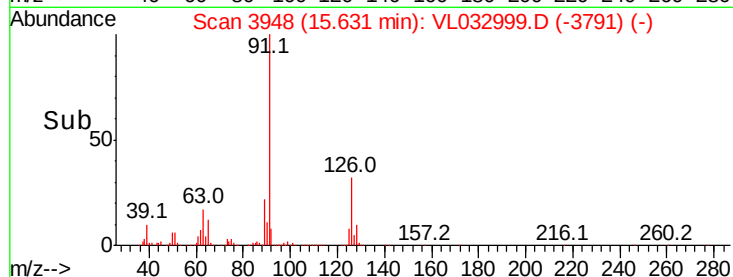
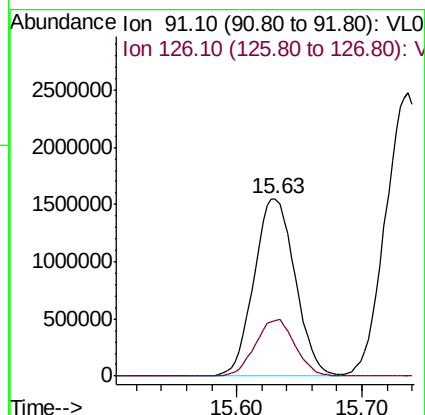
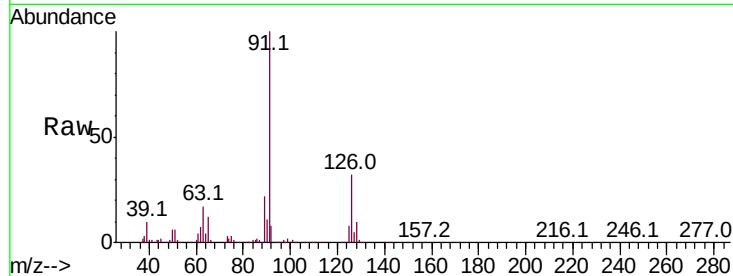




#71
 2-Chlorotoluene
 Concen: 8.655 ppbv
 RT: 15.63 min Scan# 3948
 Delta R.T. 0.00 min
 Lab File: VL032999.D
 Acq: 17 Dec 2018 15:11

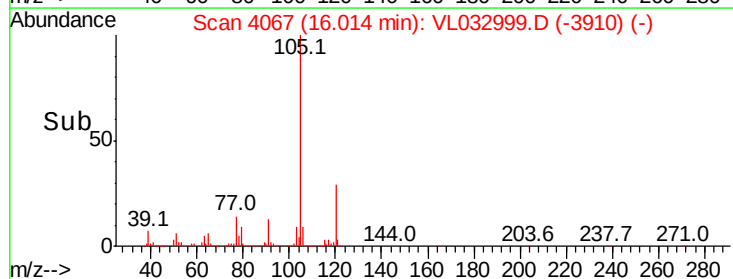
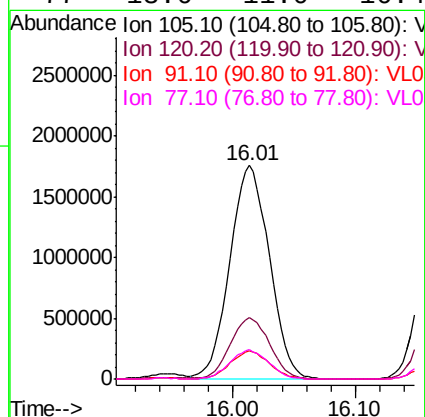
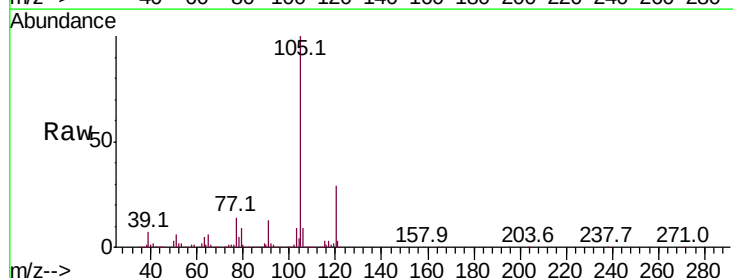
Instrument :
 MSVOA_L
 ClientSampled :

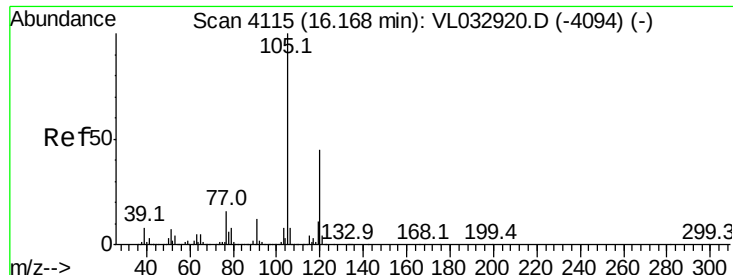
Tot Ion: 91 Resp: 3536589
 Ion Ratio Lower Upper
 91 100
 126 31.0 12.3 49.3



#72
 4-Ethyltoluene
 Concen: 8.954 ppbv
 RT: 16.01 min Scan# 4067
 Delta R.T. 0.00 min
 Lab File: VL032999.D
 Acq: 17 Dec 2018 15:11

Tgt Ion:105 Resp: 3936759
 Ion Ratio Lower Upper
 105 100
 120 28.8 23.0 34.4
 91 13.1 10.4 15.6
 77 13.6 11.0 16.4





#73

1,3,5-Trimethylbenzene

Concen: 8.881 ppbv

RT: 16.17 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_L

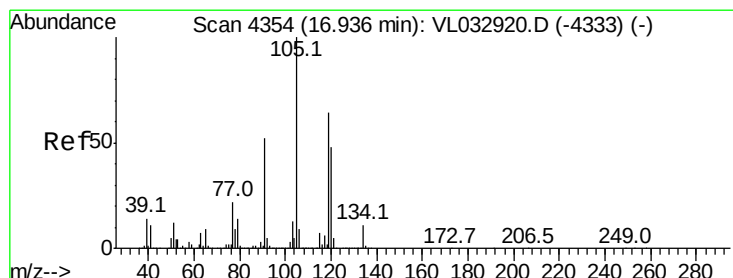
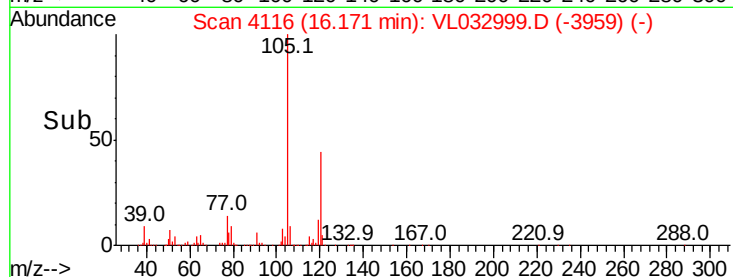
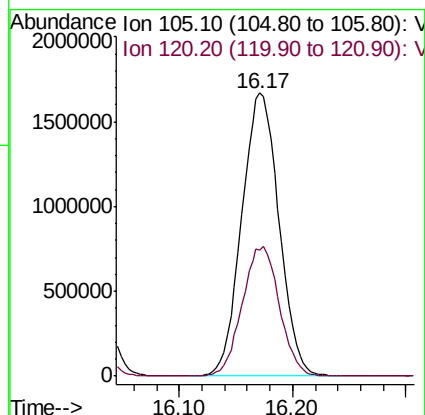
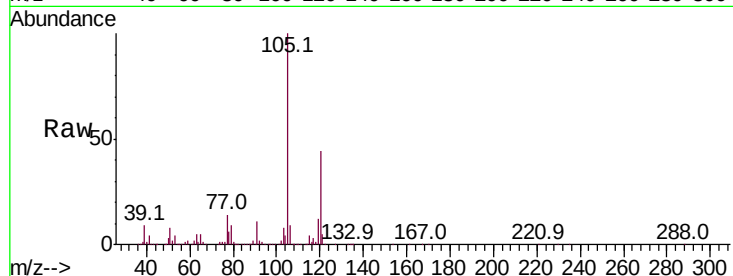
ClientSampleId :

Tot Ion:105 Resp: 3811902

Ion Ratio Lower Upper

105 100

120 44.5 36.0 54.0



#74

1,2,4-Trimethylbenzene

Concen: 8.182 ppbv

RT: 16.94 min Scan# 4356

Delta R.T. 0.01 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Tgt Ion:105 Resp: 3965719

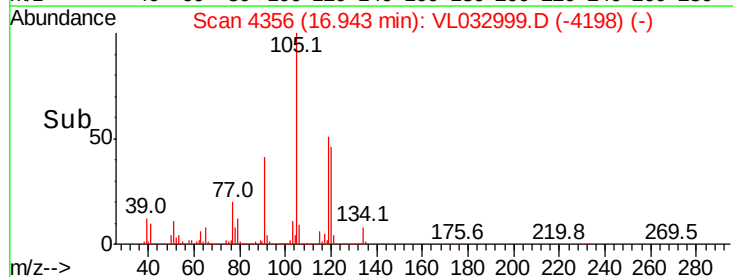
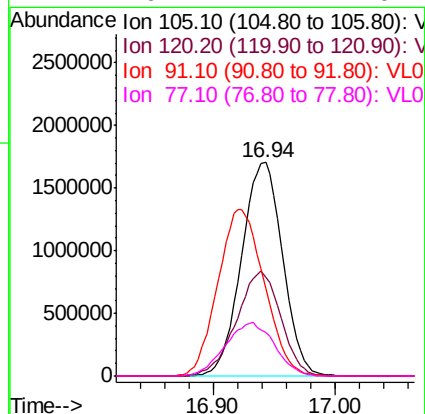
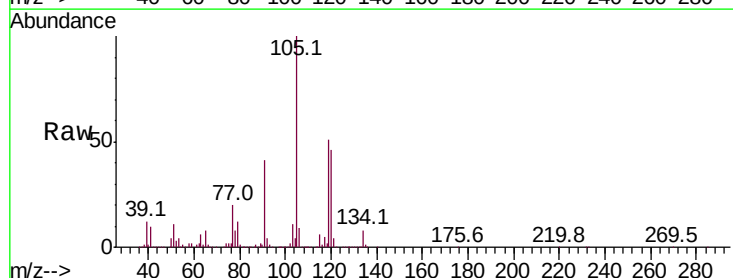
Ion Ratio Lower Upper

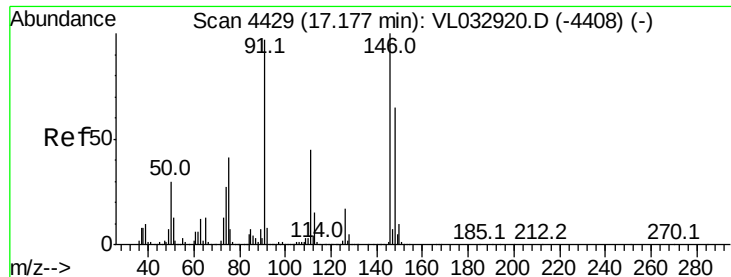
105 100

120 46.2 38.6 58.0

91 40.5 41.7 62.5#

77 20.4 17.4 26.2





#75

1,3-Dichlorobenzene

Concen: 7.924 ppbv

RT: 17.18 min Scan# 4429

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_L

ClientSampleId :

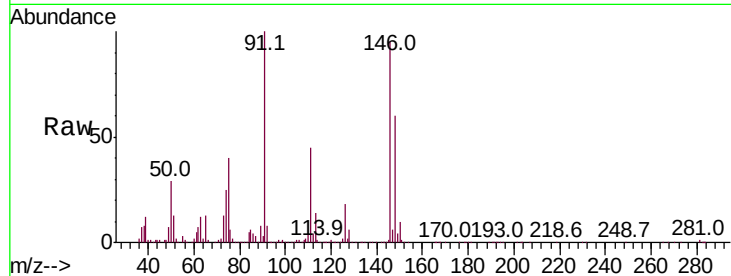
Tot Ion:146 Resp: 2261588

Ion	Ratio	Lower	Upper
146	100		
111	46.1	23.6	70.8
148	63.5	32.1	96.3

146 100

111 46.1 23.6 70.8

148 63.5 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

1200000

1000000

800000

600000

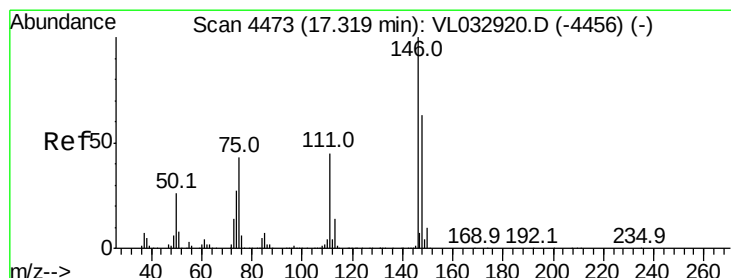
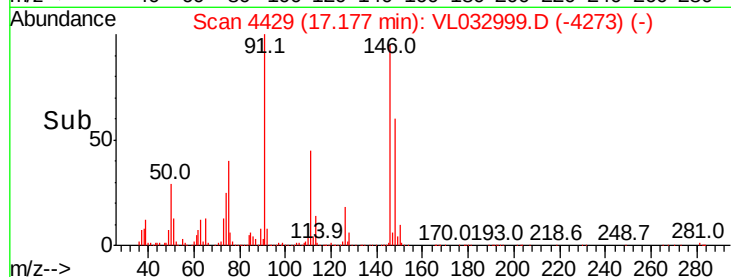
400000

200000

0

17.10 17.20 17.30

Time-->



#76

1,4-Dichlorobenzene

Concen: 8.184 ppbv

RT: 17.32 min Scan# 4474

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

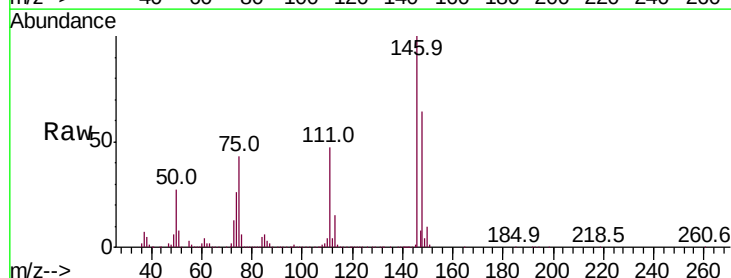
Tgt Ion:146 Resp: 2179540

Ion	Ratio	Lower	Upper
146	100		
111	44.9	22.8	68.4
148	64.7	32.0	96.2

146 100

111 44.9 22.8 68.4

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

1200000

1000000

800000

600000

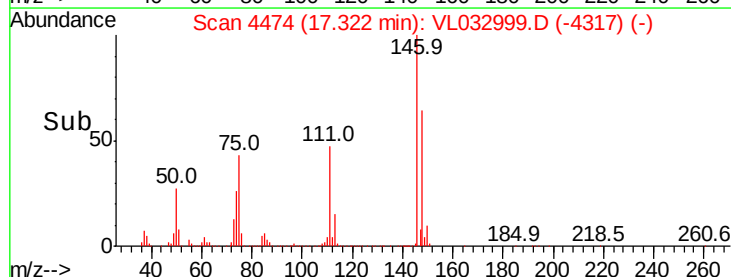
400000

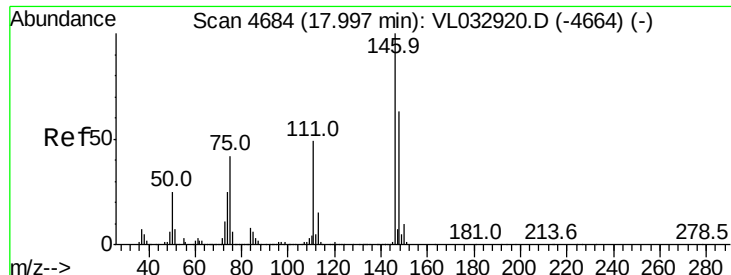
200000

0

17.20 17.30 17.40

Time-->





#77

1,2-Dichlorobenzene

Concen: 7.210 ppbv

RT: 18.00 min Scan# 4685

Delta R.T. 0.00 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

Instrument :

MSVOA_L

ClientSampled :

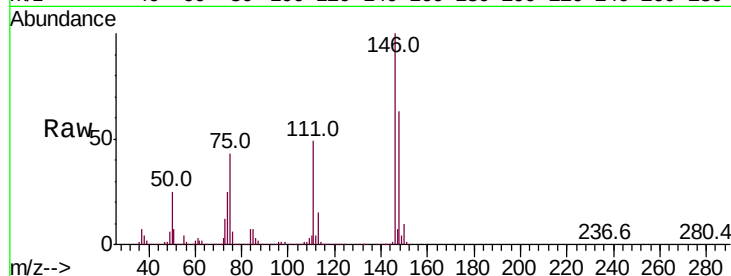
Tot Ion:146 Resp: 1921707

Ion Ratio Lower Upper

146 100

111 48.3 24.3 72.9

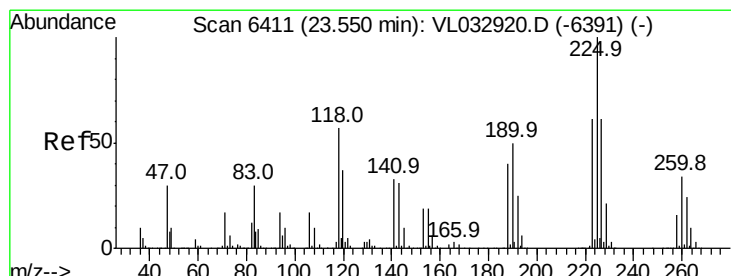
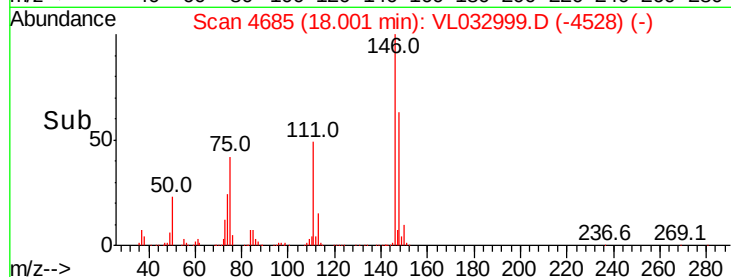
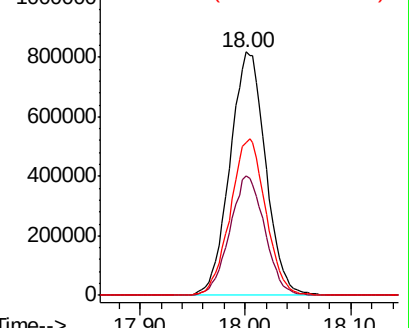
148 64.1 32.0 96.2



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



#78

Hexachloro-1,3-Butadiene

Concen: 7.536 ppbv

RT: 23.56 min Scan# 6413

Delta R.T. 0.01 min

Lab File: VL032999.D

Acq: 17 Dec 2018 15:11

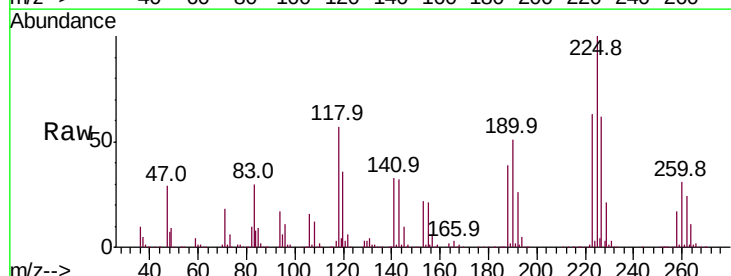
Tgt Ion:225 Resp: 1104568

Ion Ratio Lower Upper

225 100

223 64.0 50.6 75.8

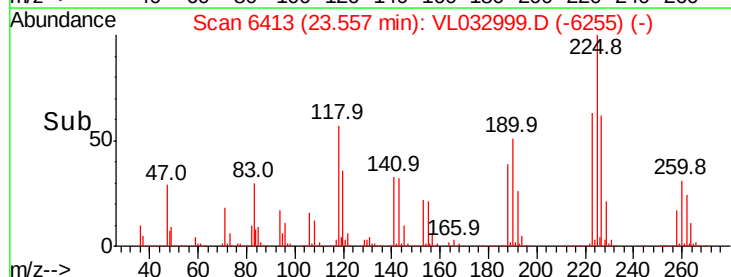
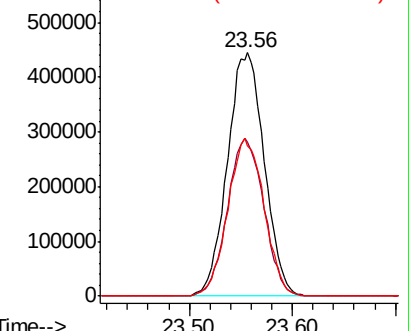
227 63.7 50.4 75.6

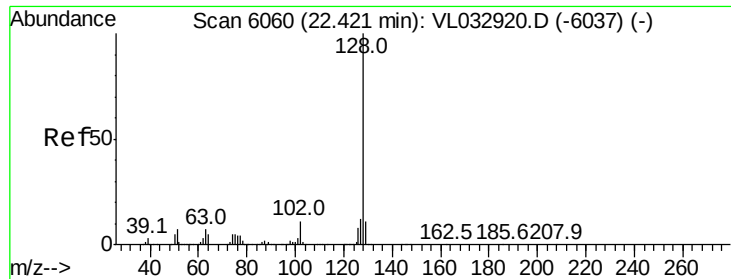


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V

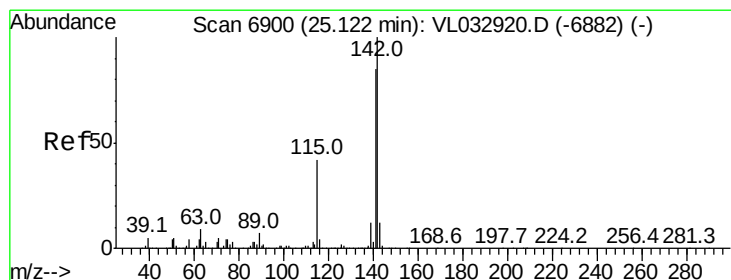
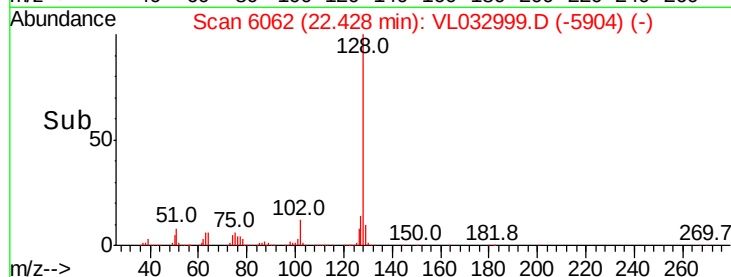
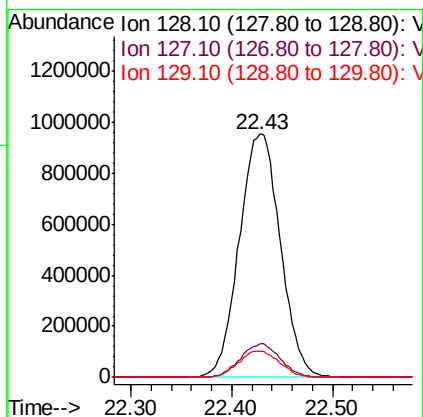
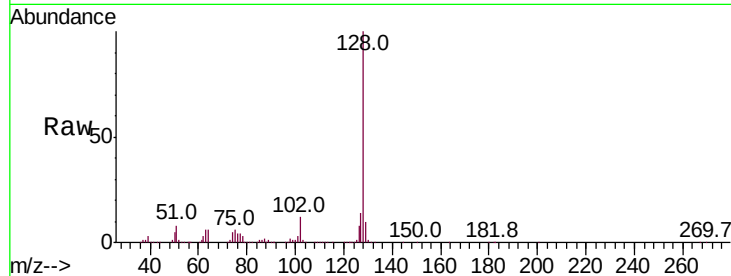




#79
Naphthalene
Concen: 8.599 ppbv
RT: 22.43 min Scan# 6062
Delta R.T. 0.01 min
Lab File: VL032999.D
Acq: 17 Dec 2018 15:11

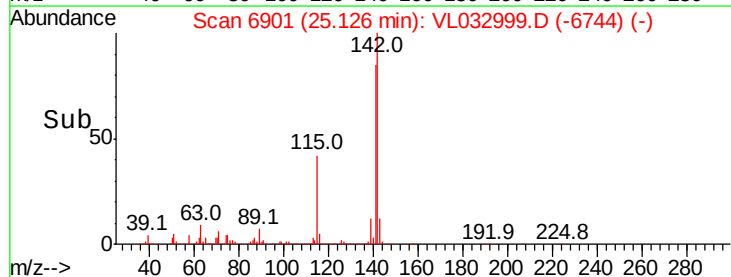
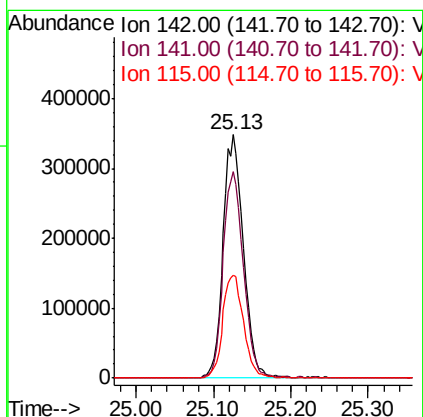
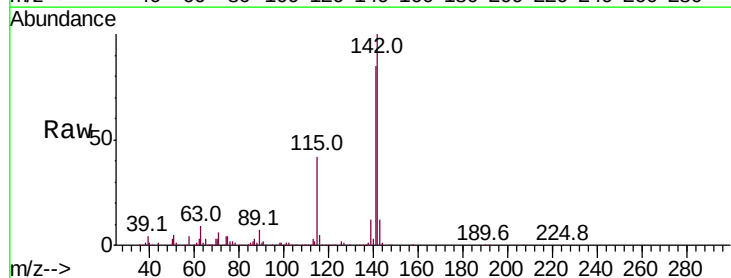
Instrument :
MSVOA_L
ClientSampleId :

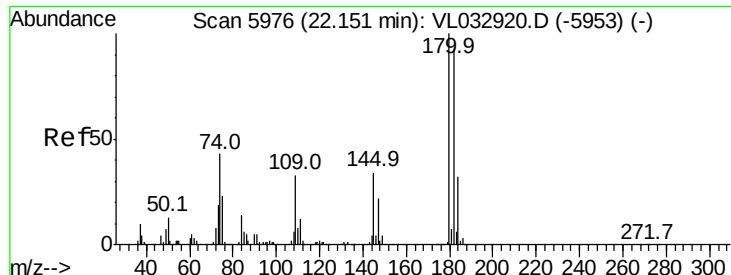
Tot Ion:128 Resp: 2691068
Ion Ratio Lower Upper
128 100
127 13.8 9.9 14.9
129 10.4 8.6 13.0



#80
Naphthalene, 2-methyl-
Concen: 9.526 ppbv
RT: 25.13 min Scan# 6901
Delta R.T. 0.00 min
Lab File: VL032999.D
Acq: 17 Dec 2018 15:11

Tgt Ion:142 Resp: 636971
Ion Ratio Lower Upper
142 100
141 85.4 68.2 102.2
115 43.7 35.1 52.7

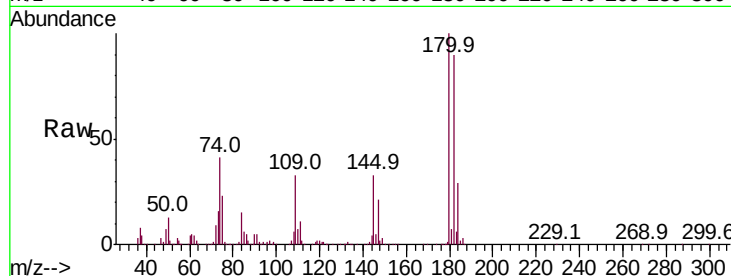




#81
 1,2,4-Trichlorobenzene
 Concen: 8.080 ppbv
 RT: 22.15 min Scan# 5976
 Delta R.T. 0.00 min
 Lab File: VL032999.D
 Acq: 17 Dec 2018 15:11

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:180 Resp: 1341013
 Ion Ratio Lower Upper
 180 100
 182 94.2 77.0 115.6
 184 30.4 24.3 36.5



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

