

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092018\
 Data File : VL032509.D
 Acq On : 20 Sep 2018 16:07
 Operator : SY/AP
 Sample : VL0920ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 21 02:34:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Sep 21 02:33:47 2018
 QLast Update : Fri Sep 21 02:33:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.80	49	1556437	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.33	114	3570957	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.28	117	4487697	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.61	95	2817822	8.46	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	84.60%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.10	85	1262166	6.340	ppbv 99
3) Chlorodifluoromethane	3.03	51	1211765	8.601	ppbv 99
4) Chloromethane	3.19	50	698321	8.186	ppbv 99
5) Vinyl Chloride	3.31	62	666568	7.916	ppbv 97
6) Bromomethane	3.54	94	409107	9.256	ppbv 98
7) Chloroethane	3.62	64	256274	8.793	ppbv 92
8) Dichlorotetrafluoroethane	3.24	85	1447649	8.193	ppbv 100
9) Propene	3.06	41	614878	10.819	ppbv 99
10) Heptane	8.28	43	2091487	10.258	ppbv 98
11) Trichlorofluoromethane	4.03	101	1498784	8.349	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.58	101	1292397	10.624	ppbv 99
13) Ethanol	3.67	45	140253	7.917	ppbv 97
14) Bromoethene	3.81	108	482733	9.366	ppbv 99
15) Acetone	3.92	43	1310720	9.352	ppbv 99
16) 1,3-Butadiene	3.38	39	529621	8.030	ppbv 99
17) tert-Butyl alcohol	4.39	59	200099	9.277	ppbv # 100
18) 1,1-Dichloroethene	4.38	96	628022	11.296	ppbv 96
19) Isopropyl Alcohol	4.05	45	903273	9.824	ppbv # 98
20) Methylene Chloride	4.43	84	561174	10.500	ppbv 95
21) Allyl Chloride	4.51	41	1087964	11.687	ppbv 100
22) trans-1,2-Dichloroethene	4.99	96	595822	9.877	ppbv 96
23) Vinyl Acetate	5.18	43	2518350	10.840	ppbv 99
24) 1,1-Dichloroethane	5.12	63	1862903	9.731	ppbv 99
25) Ethyl Acetate	5.80	43	3151849	9.523	ppbv 100
26) Hexane	5.81	57	1477987	9.972	ppbv 99
27) Carbon Disulfide	4.65	76	1640292	11.989	ppbv 98
28) Methyl tert-Butyl Ether	5.14	73	1972023	10.837	ppbv 99
29) Chloroform	5.88	83	2163603	9.575	ppbv 100
30) Cyclohexane	7.28	84	1275994	11.758	ppbv 99
31) cis-1,2-Dichloroethene	5.67	61	1431495	10.667	ppbv 98
32) 1,1,1-Trichloroethane	6.65	97	2218377	10.532	ppbv 98
34) 2-Butanone	5.36	43	2086362	8.796	ppbv 100
35) Carbon Tetrachloride	7.17	117	2243920	9.349	ppbv 98
36) Benzene	7.04	78	2970797	9.776	ppbv 99
37) 1,2-Dichloroethane	6.45	62	1691054	9.081	ppbv 99
38) Trichloroethene	8.00	130	1097897	9.511	ppbv 98
39) 1,2-Dichloropropane	7.77	63	1277057	9.822	ppbv 97
40) 1,4-Dioxane	7.99	88	430135	11.027	ppbv 76
41) Tetrahydrofuran	6.18	42	1295892	10.036	ppbv 99
42) Bromodichloromethane	7.96	83	2477287	9.645	ppbv 100
43) Methyl Methacrylate	8.17	69	1287374	9.986	ppbv 99

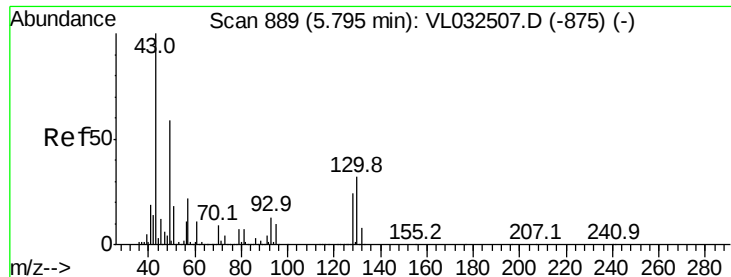
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092018\
 Data File : VL032509.D
 Acq On : 20 Sep 2018 16:07
 Operator : SY/AP
 Sample : VL0920ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 21 02:34:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Sep 21 02:33:47 2018
 QLast Update : Fri Sep 21 02:33:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.03	57	5531473	9.415	ppbv	99
45) t-1,3-Dichloropropene	9.45	75	1766434	12.804	ppbv	96
46) cis-1,3-Dichloropropene	8.88	75	1881337	10.672	ppbv	99
47) 1,1,2-Trichloroethane	9.65	97	1363565	9.864	ppbv	99
48) Dibromochloromethane	10.49	129	2233930	11.668	ppbv	100
49) Bromoform	13.24	173	1694496	10.183	ppbv	100
50) 4-Methyl-2-Pentanone	8.91	43	3315053	9.278	ppbv	100
51) 2-Hexanone	10.31	43	2980716	12.951	ppbv	100
52) Tetrachloroethene	11.41	164	968883	10.282	ppbv	97
53) Toluene	9.99	91	3807930	11.988	ppbv	100
54) 1,2-Dibromoethane	10.80	107	2045580	11.021	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.32	131	1487171	7.351	ppbv #	60
57) Chlorobenzene	12.34	112	2638390	7.356	ppbv	99
58) Ethyl Benzene	12.91	91	4748299	8.842	ppbv	97
59) m/p-Xylene	13.19	91	3755625	7.844	ppbv #	26
60) o-Xylene	13.89	91	3783471	8.045	ppbv	100
61) Styrene	13.73	104	2824777	9.278	ppbv	99
62) Isopropylbenzene	14.87	105	5369694	8.122	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.88	83	2837169	6.747	ppbv	99
64) n-propylbenzene	15.76	120	1380041	7.984	ppbv	98
65) tert-Butylbenzene	16.95	119	4444309	7.801	ppbv	99
66) Benzyl Chloride	17.19	91	2690505	8.477	ppbv	100
67) sec-Butylbenzene	17.50	105	6565276	7.663	ppbv	99
69) p-Isopropyltoluene	17.86	119	5216831	7.856	ppbv	100
70) n-Butylbenzene	18.75	91	5649958	7.506	ppbv	99
71) 2-Chlorotoluene	15.66	91	4178220	8.272	ppbv	100
72) 4-Ethyltoluene	16.04	105	4395142	8.560	ppbv	99
73) 1,3,5-Trimethylbenzene	16.20	105	4142536	8.052	ppbv	94
74) 1,2,4-Trimethylbenzene	16.97	105	4131130	7.345	ppbv	93
75) 1,3-Dichlorobenzene	17.21	146	2297824	6.886	ppbv	99
76) 1,4-Dichlorobenzene	17.35	146	2256495	7.288	ppbv	100
77) 1,2-Dichlorobenzene	18.03	146	2250021	6.988	ppbv	100
78) Hexachloro-1,3-Butadiene	23.58	225	739929	6.151	ppbv	100
79) Naphthalene	22.46	128	3487659	7.626	ppbv	100
80) Naphthalene, 2-methyl-	25.14	142	1104116	9.073	ppbv	100
81) 1,2,4-Trichlorobenzene	22.18	180	1660108	7.207	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.80 min Scan# 889

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :
MSVOA_L
ClientSampled :

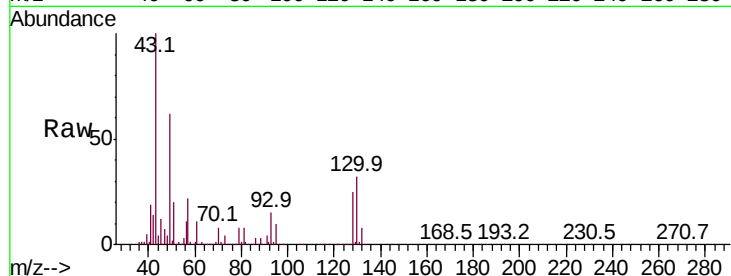
Tot Ion: 49 Resp: 1556437

Ion	Ratio	Lower	Upper
49	100		
128	41.9	20.7	62.1
130	53.5	26.6	79.7

49 100

128 41.9 20.7 62.1

130 53.5 26.6 79.7



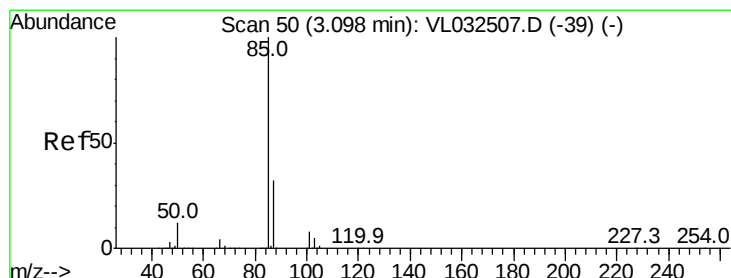
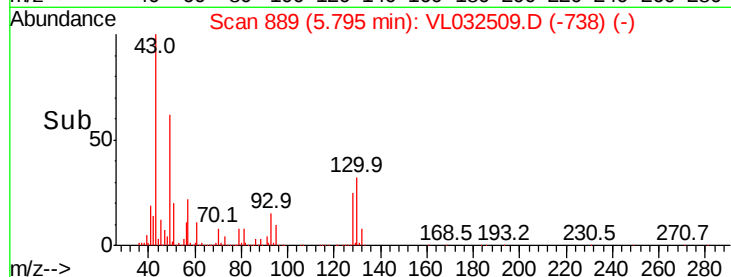
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 6.340 ppbv

RT: 3.10 min Scan# 50

Delta R.T. -0.01 min

Lab File: VL032509.D

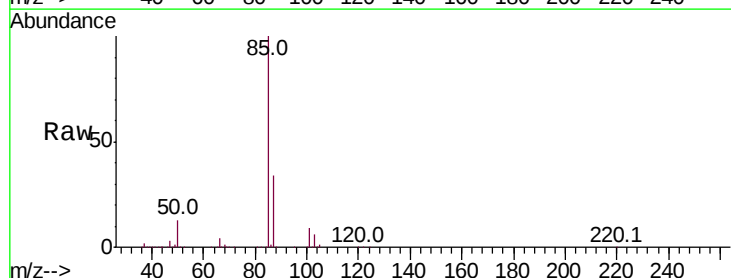
Acq: 20 Sep 2018 16:07

Tgt Ion: 85 Resp: 1262166

Ion	Ratio	Lower	Upper
85	100		
87	33.6	26.2	39.4

85 100

87 33.6 26.2 39.4

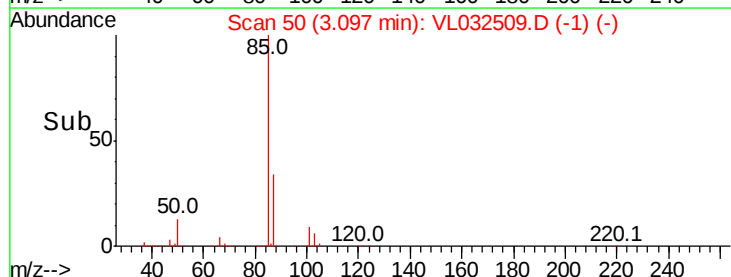


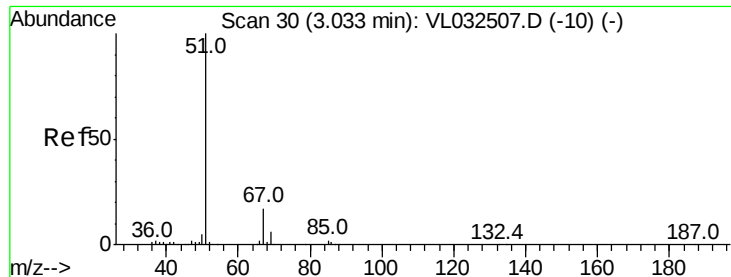
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.10

Time-->





#3

Chlorodifluoromethane

Concen: 8.601 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

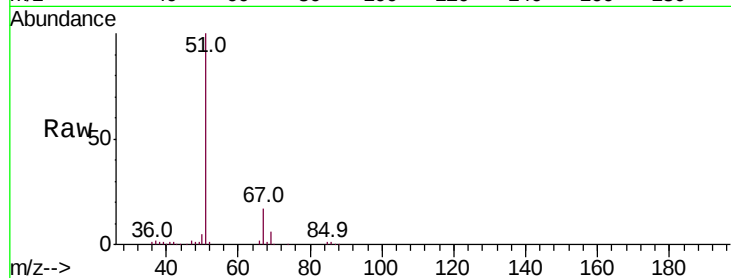
ClientSampleId :

Tot Ion: 51 Resp: 1211765

Ion Ratio Lower Upper

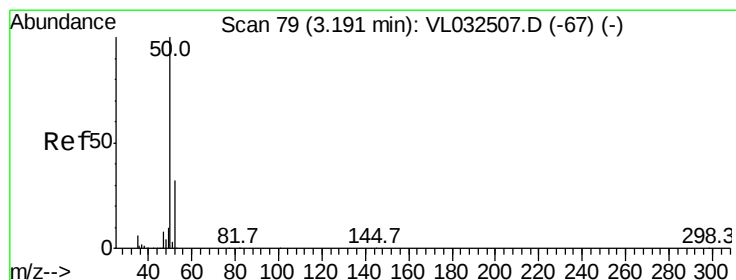
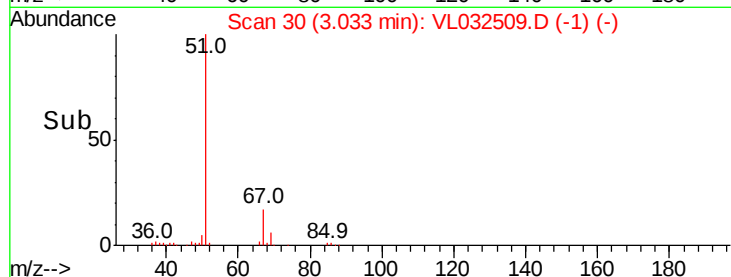
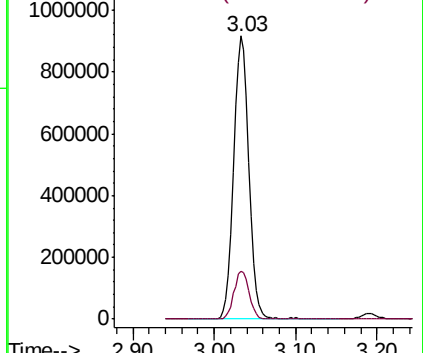
51 100

67 17.0 13.8 20.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 8.186 ppbv

RT: 3.19 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL032509.D

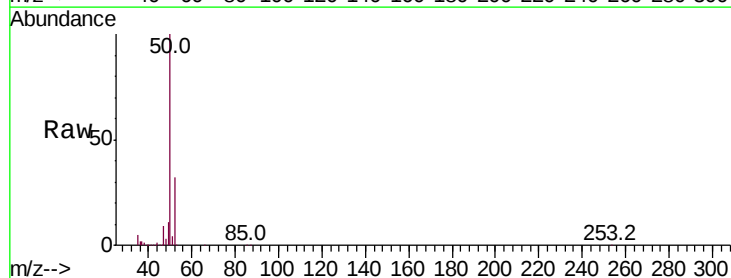
Acq: 20 Sep 2018 16:07

Tgt Ion: 50 Resp: 698321

Ion Ratio Lower Upper

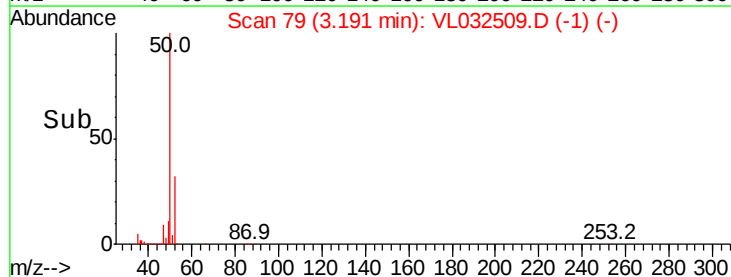
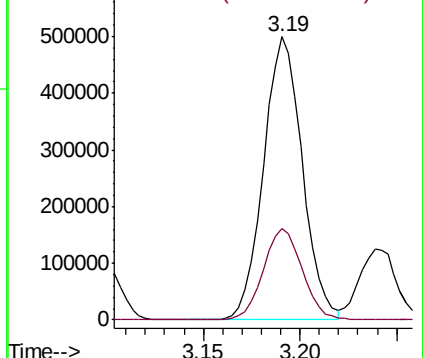
50 100

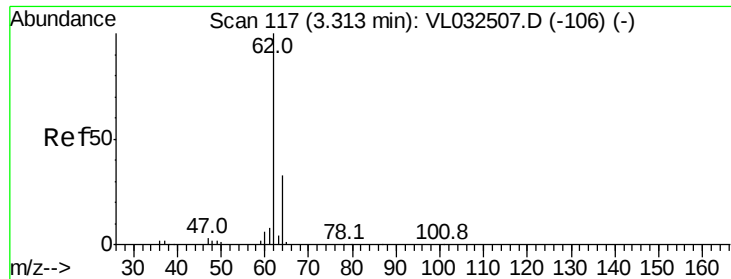
52 32.5 25.6 38.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 7.916 ppbv

RT: 3.31 min Scan# 117

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

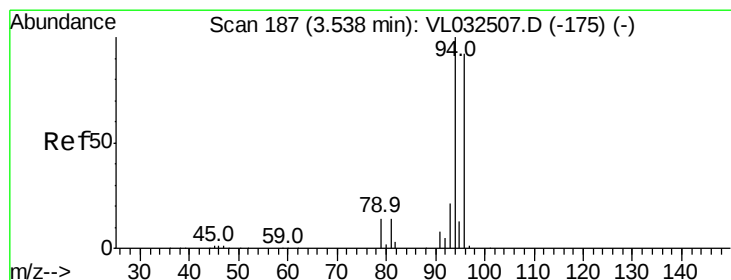
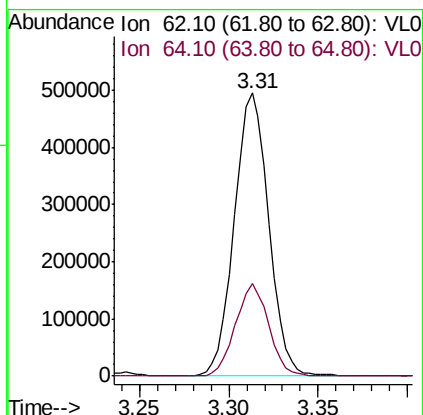
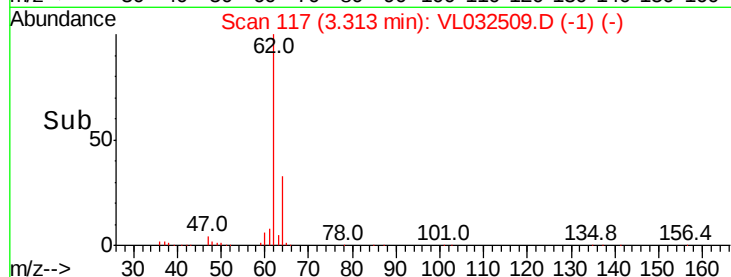
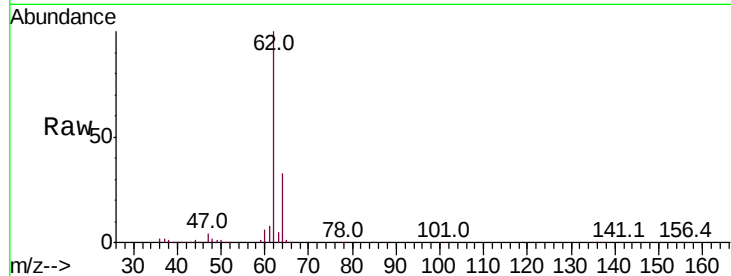
ClientSampleId :

Tot Ion: 62 Resp: 666568

Ion Ratio Lower Upper

62 100

64 32.8 25.0 37.6



#6

Bromomethane

Concen: 9.256 ppbv

RT: 3.54 min Scan# 187

Delta R.T. -0.01 min

Lab File: VL032509.D

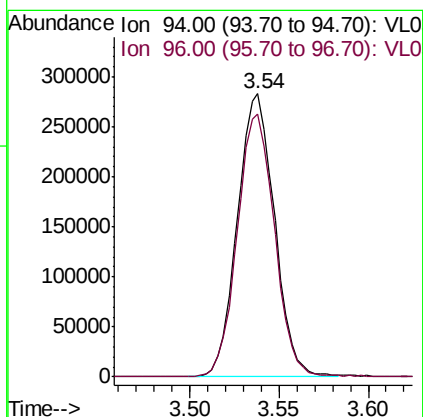
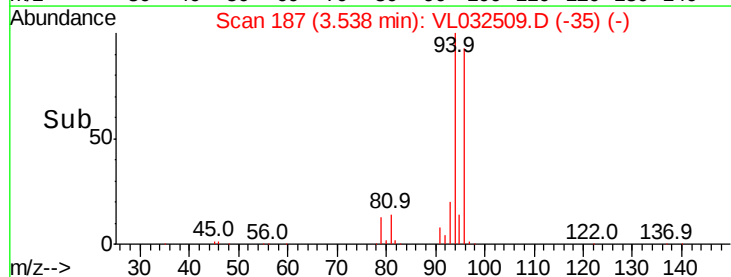
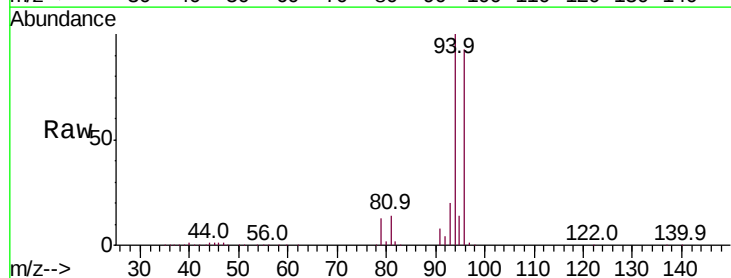
Acq: 20 Sep 2018 16:07

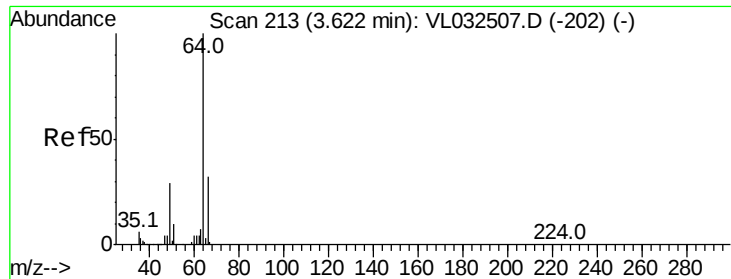
Tgt Ion: 94 Resp: 409107

Ion Ratio Lower Upper

94 100

96 92.7 72.8 109.2





#7

Chloroethane

Concen: 8.793 ppbv

RT: 3.62 min Scan# 214

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

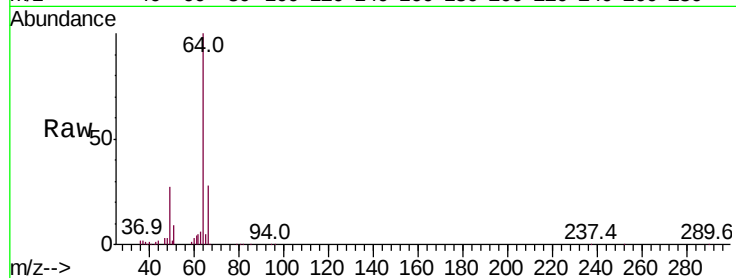
ClientSampleId :

Tot Ion: 64 Resp: 256274

Ion Ratio Lower Upper

64 100

66 27.7 25.8 38.6



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.62

200000

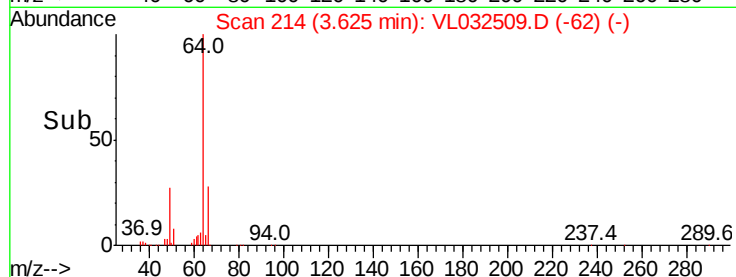
150000

100000

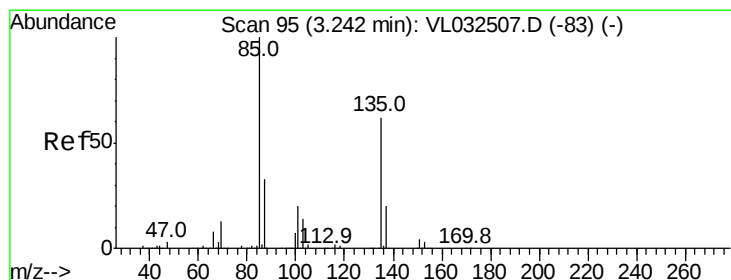
50000

0

Time-->



Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.193 ppbv

RT: 3.24 min Scan# 95

Delta R.T. -0.01 min

Lab File: VL032509.D

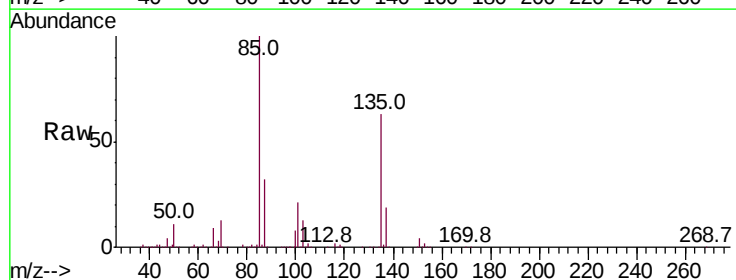
Acq: 20 Sep 2018 16:07

Tgt Ion: 85 Resp: 1447649

Ion Ratio Lower Upper

85 100

135 60.7 48.6 72.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.24

1200000

1000000

800000

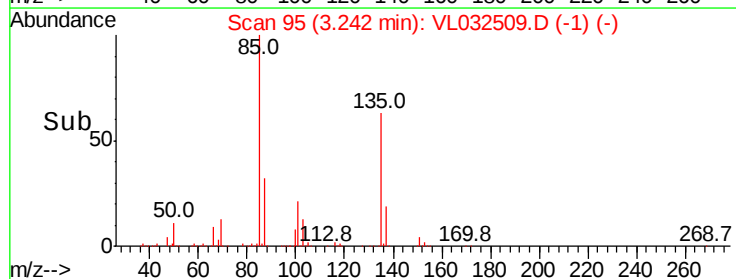
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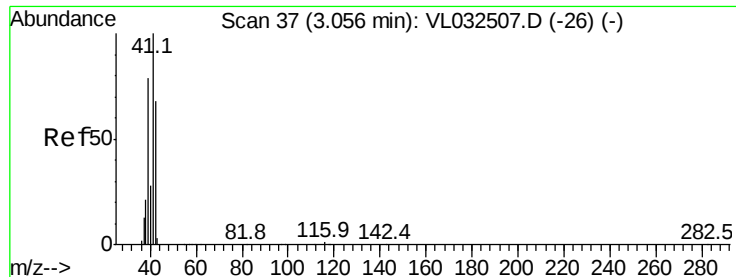
400000

200000

0

Time-->





#9

Propene

Concen: 10.819 ppbv

RT: 3.06 min Scan# 37

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

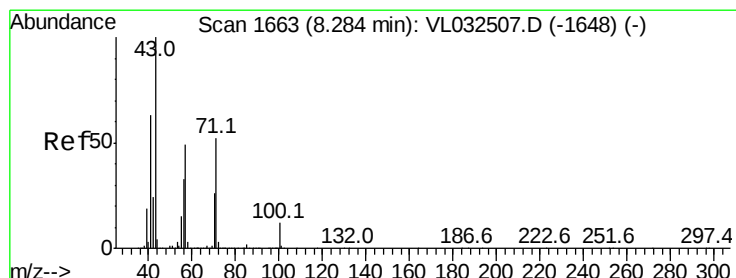
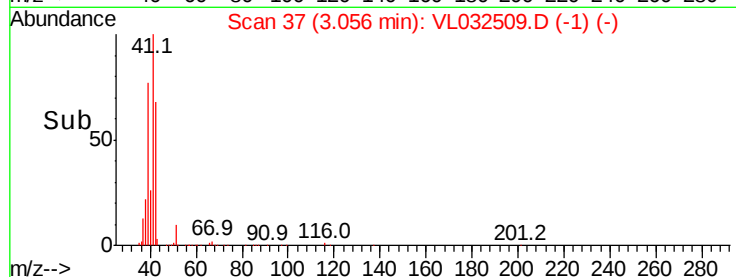
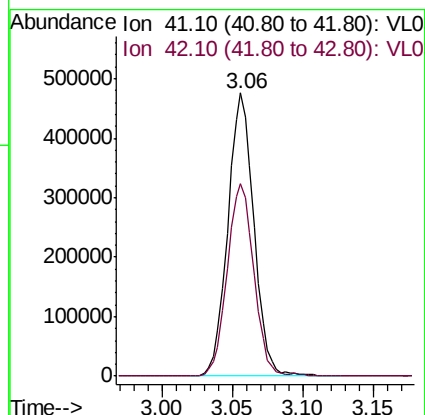
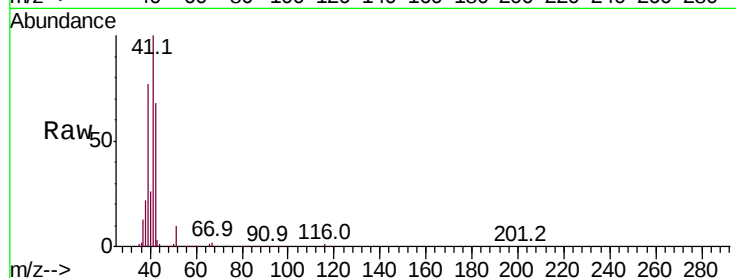
ClientSampleId :

Tot Ion: 41 Resp: 614878

Ion Ratio Lower Upper

41 100

42 69.7 56.6 84.8



#10

Heptane

Concen: 10.258 ppbv

RT: 8.28 min Scan# 1663

Delta R.T. -0.01 min

Lab File: VL032509.D

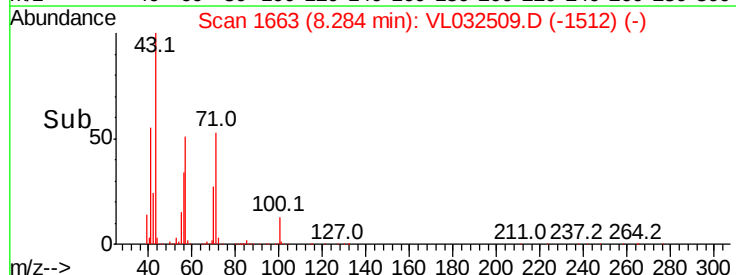
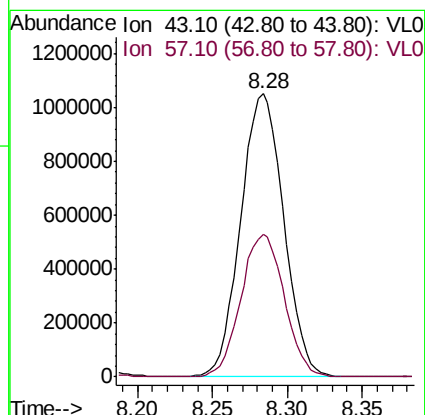
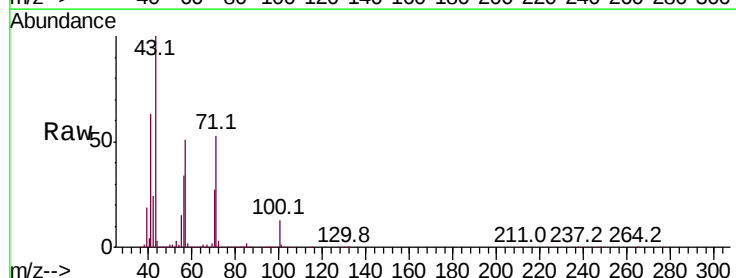
Acq: 20 Sep 2018 16:07

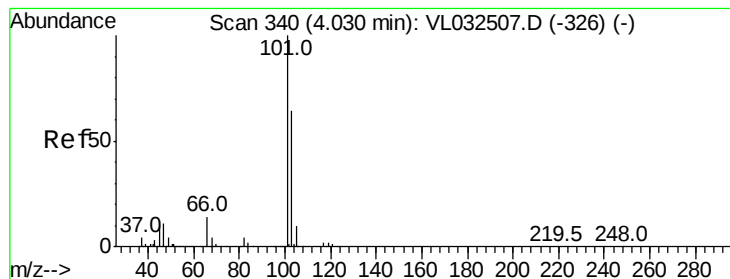
Tgt Ion: 43 Resp: 2091487

Ion Ratio Lower Upper

43 100

57 51.0 39.6 59.4





#11

Trichlorofluoromethane

Concen: 8.349 ppbv

RT: 4.03 min Scan# 340

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

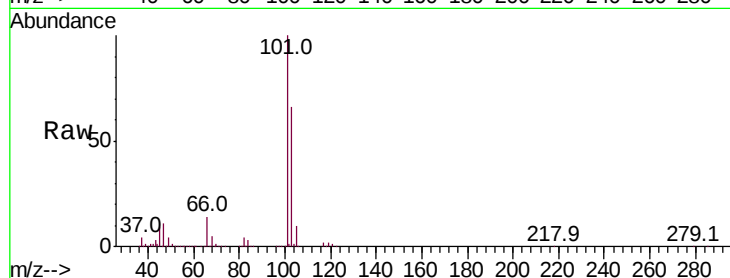
ClientSampleId :

Tot Ion:101 Resp: 1498784

Ion Ratio Lower Upper

101 100

103 65.5 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

4.03

1000000

800000

600000

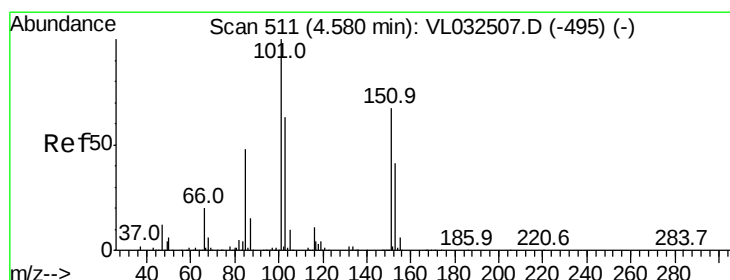
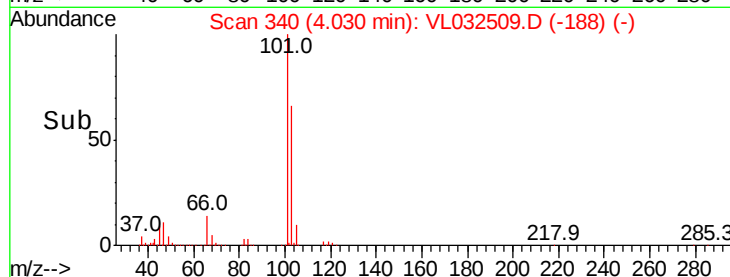
400000

200000

0

Time-->

3.95 4.00 4.05 4.10



#12

1,1,2-Trichlorotrifluoroethane

Concen: 10.624 ppbv

RT: 4.58 min Scan# 511

Delta R.T. -0.01 min

Lab File: VL032509.D

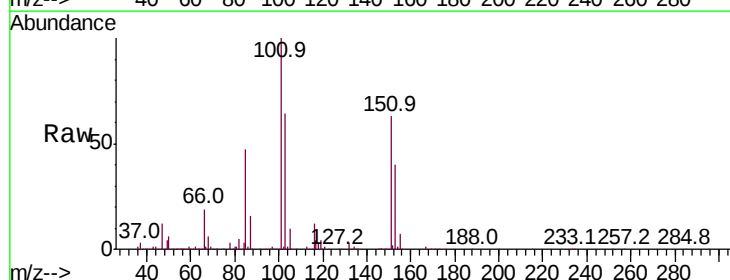
Acq: 20 Sep 2018 16:07

Tgt Ion:101 Resp: 1292397

Ion Ratio Lower Upper

101 100

151 64.9 52.6 78.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

4.58

800000

600000

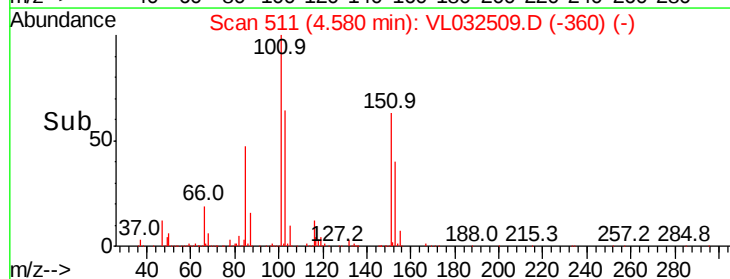
400000

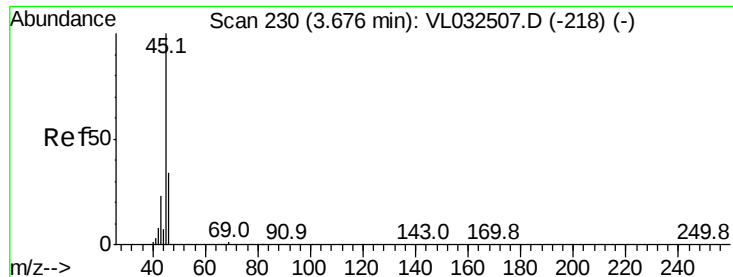
200000

0

Time-->

4.50 4.55 4.60 4.65





#13

Ethanol

Concen: 7.917 ppbv

RT: 3.67 min Scan# 229

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

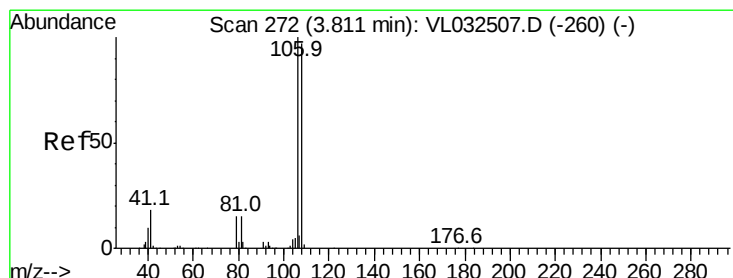
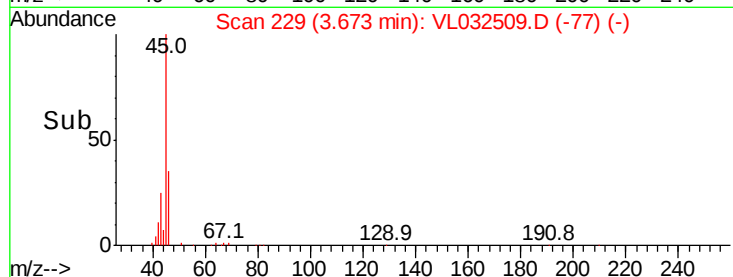
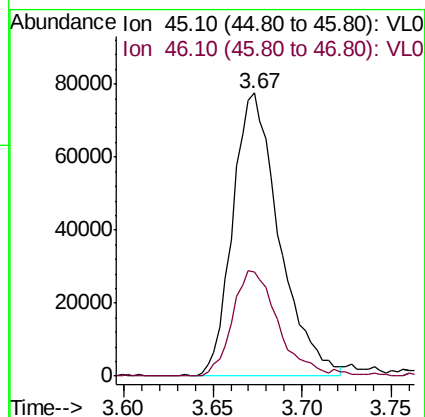
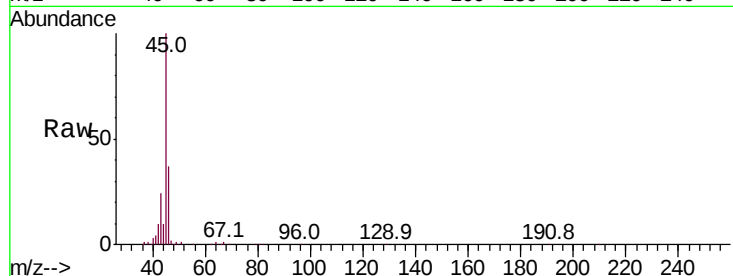
ClientSampled :

Tot Ion: 45 Resp: 140253

Ion Ratio Lower Upper

45 100

46 37.4 14.2 56.8



#14

Bromoethene

Concen: 9.366 ppbv

RT: 3.81 min Scan# 272

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

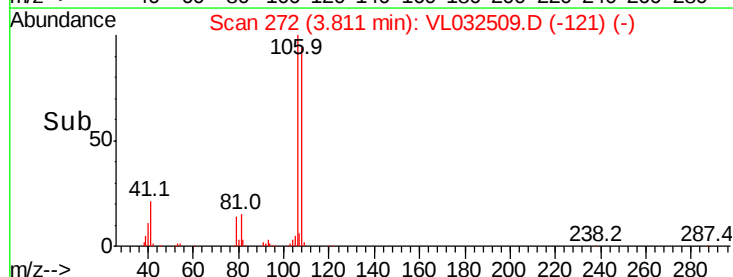
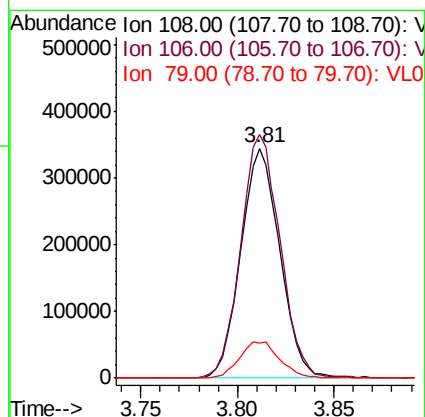
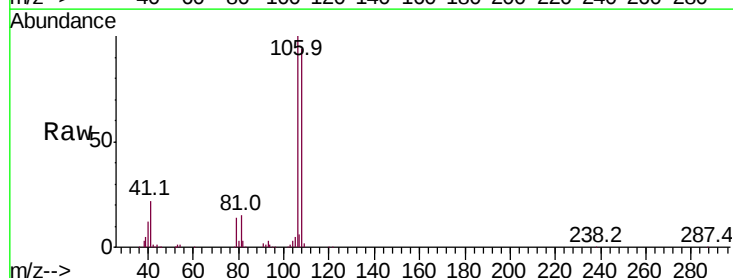
Tgt Ion: 108 Resp: 482733

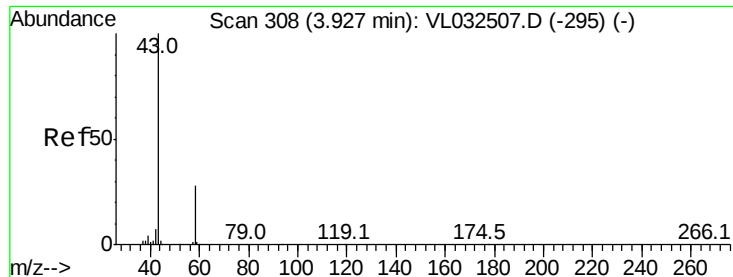
Ion Ratio Lower Upper

108 100

106 107.3 85.5 128.3

79 16.9 13.0 19.6

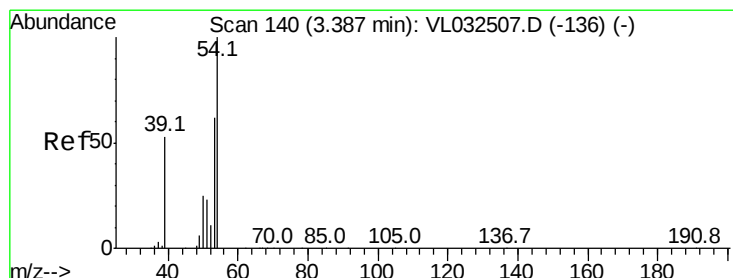
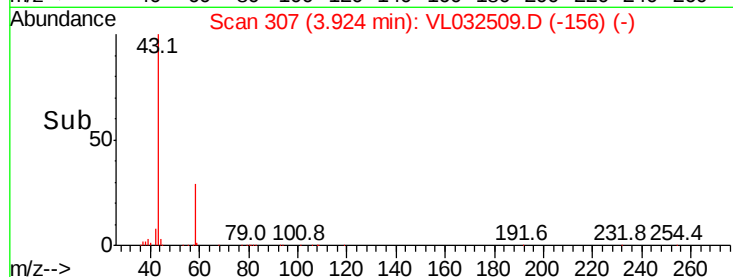
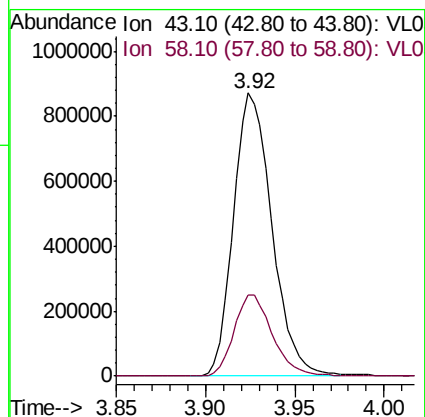
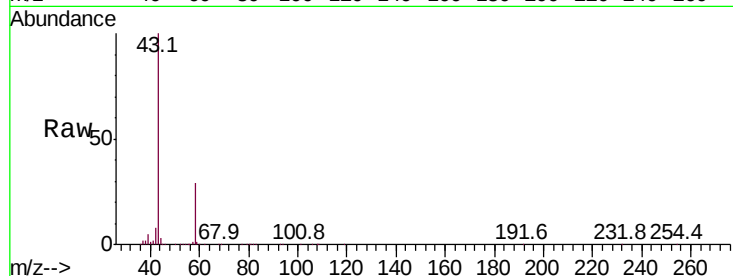




#15
Acetone
Concen: 9.352 ppbv
RT: 3.92 min Scan# 307
Delta R.T. -0.01 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

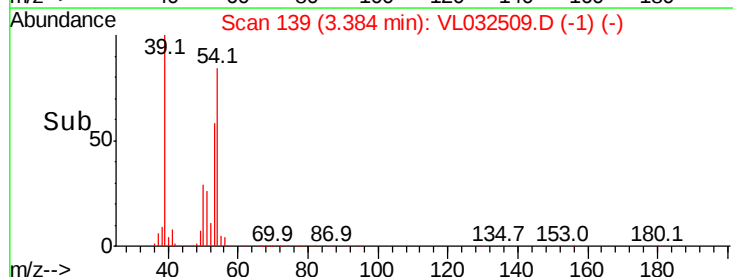
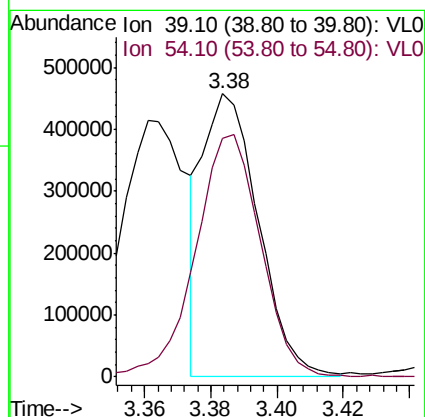
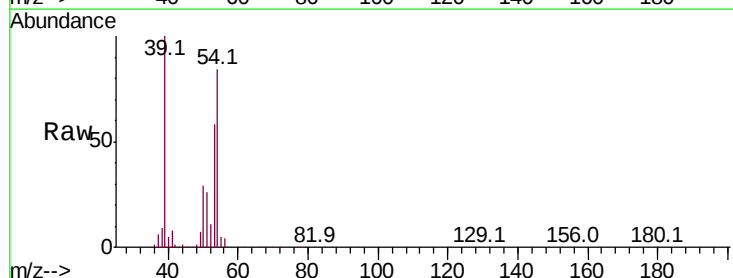
Instrument :
MSVOA_L
ClientSampleId :

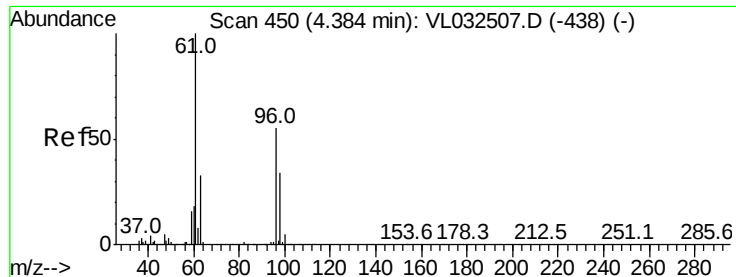
Tot Ion: 43 Resp: 1310720
Ion Ratio Lower Upper
43 100
58 28.7 22.6 33.8



#16
1,3-Butadiene
Concen: 8.030 ppbv
RT: 3.38 min Scan# 139
Delta R.T. -0.01 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Tgt Ion: 39 Resp: 529621
Ion Ratio Lower Upper
39 100
54 102.2 80.8 121.2



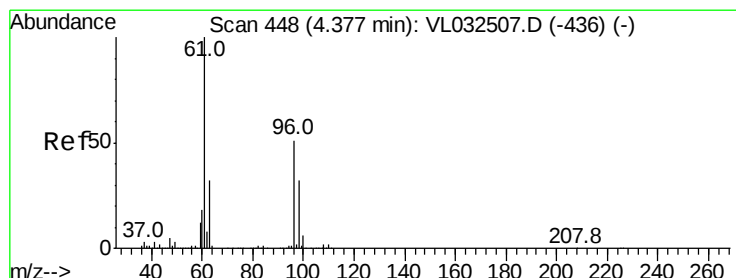
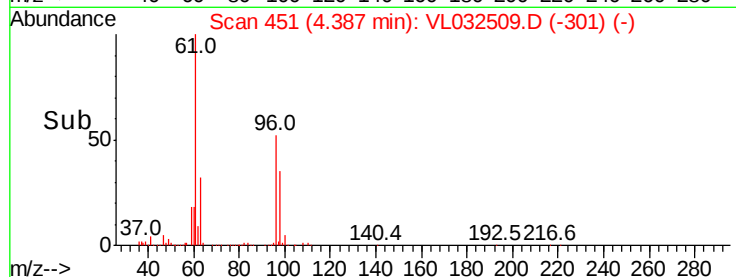
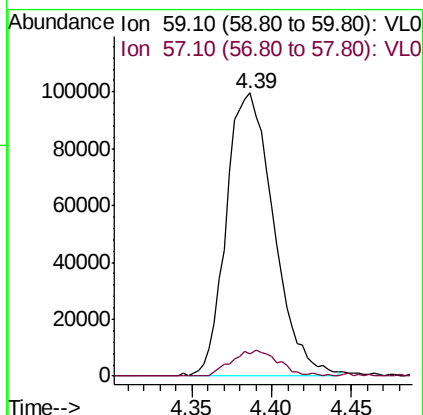
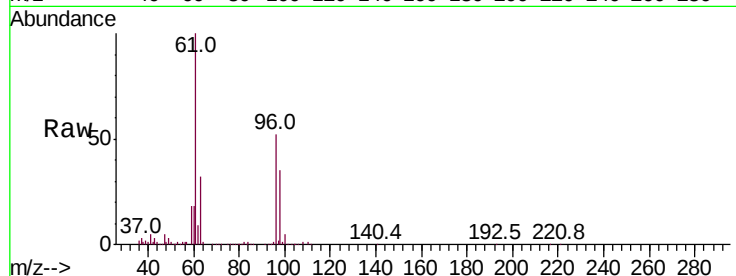


#17

tert-Butyl alcohol
Concen: 9.277 ppbv
RT: 4.39 min Scan# 451
Delta R.T. -0.02 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Instrument :
MSVOA_L
ClientSampleId :

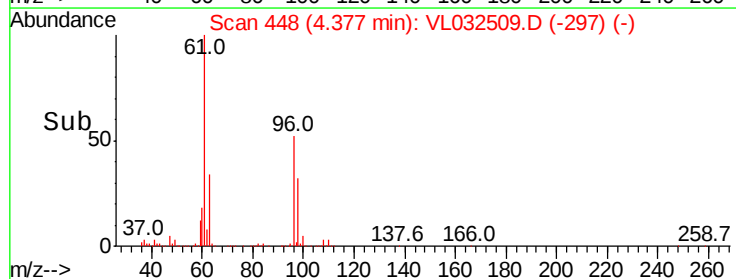
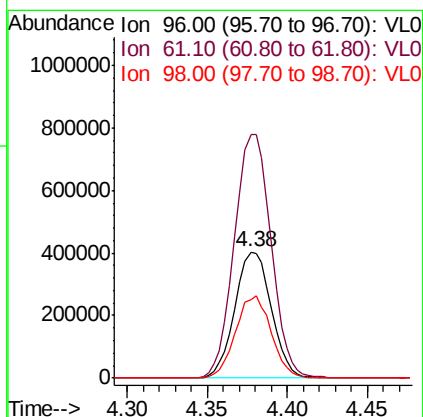
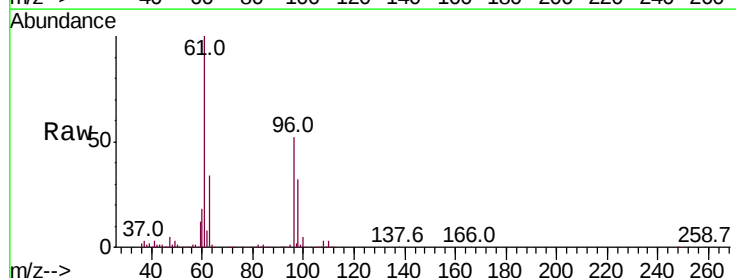
Tot Ion: 59 Resp: 200099
Ion Ratio Lower Upper
59 100
57 9.6 0.0 0.0#

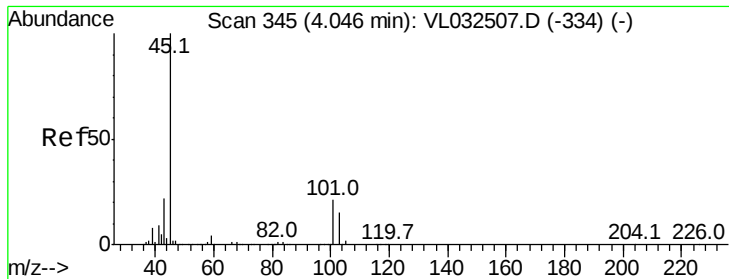


#18

1,1-Dichloroethene
Concen: 11.296 ppbv
RT: 4.38 min Scan# 448
Delta R.T. -0.01 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Tgt Ion: 96 Resp: 628022
Ion Ratio Lower Upper
96 100
61 192.5 159.2 238.8
98 62.2 51.0 76.4





#19

Isopropyl Alcohol

Concen: 9.824 ppbv

RT: 4.05 min Scan# 345

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

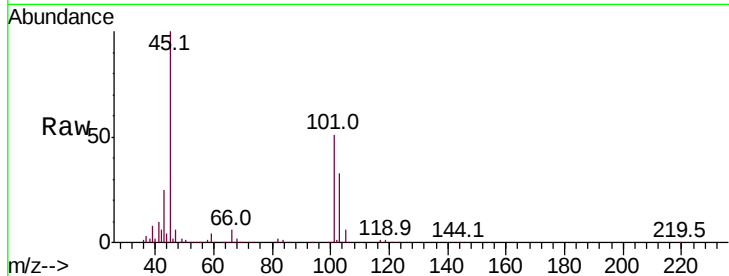
ClientSampleId :

Tot Ion: 45 Resp: 903273

Ion Ratio Lower Upper

45 100

58 1.8 2.0 3.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.05

500000

400000

300000

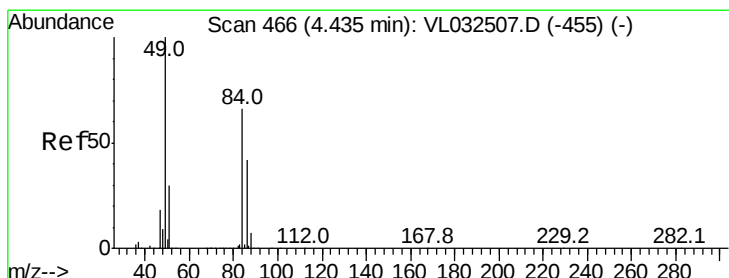
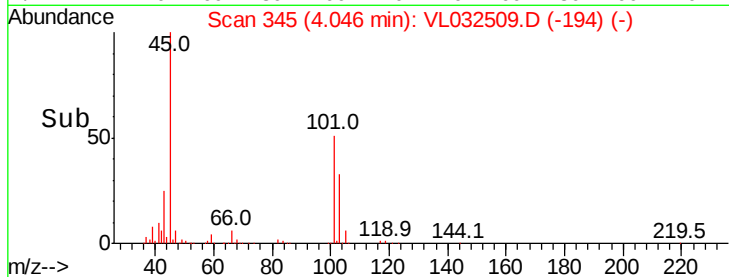
200000

100000

0

Time-->

4.00 4.05 4.10 4.15



#20

Methylene Chloride

Concen: 10.500 ppbv

RT: 4.43 min Scan# 466

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Tgt Ion: 84 Resp: 561174

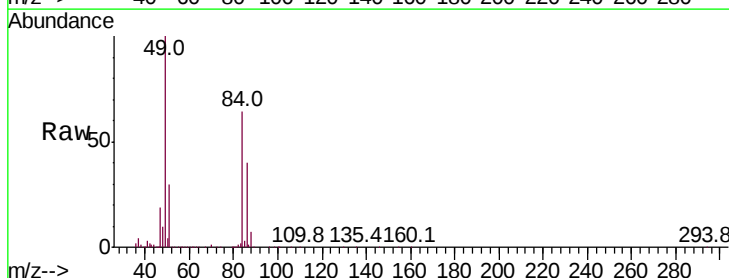
Ion Ratio Lower Upper

84 100

49 156.7 119.1 178.7

51 46.5 35.2 52.8

86 63.8 49.4 74.2



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

800000

600000

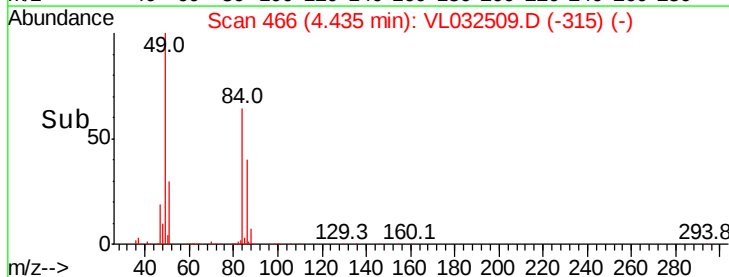
400000

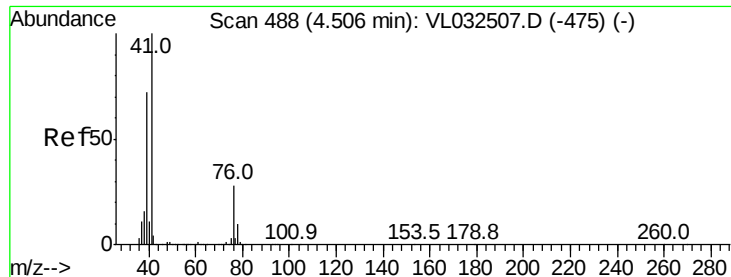
200000

0

Time-->

4.40 4.43 4.50

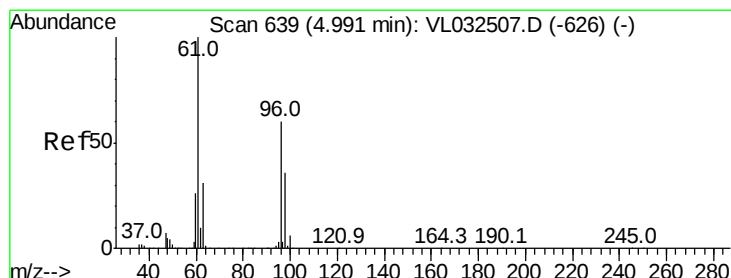
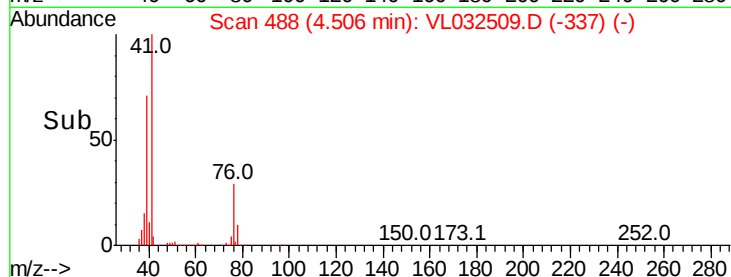
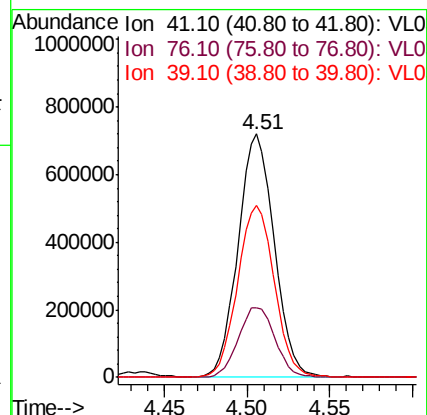
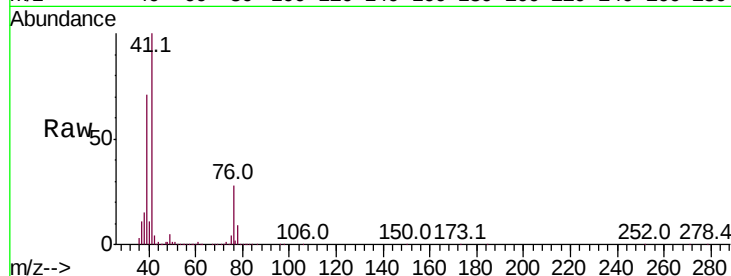




#21
Allvl Chloride
Concen: 11.687 ppbv
RT: 4.51 min Scan# 488
Delta R.T. -0.01 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

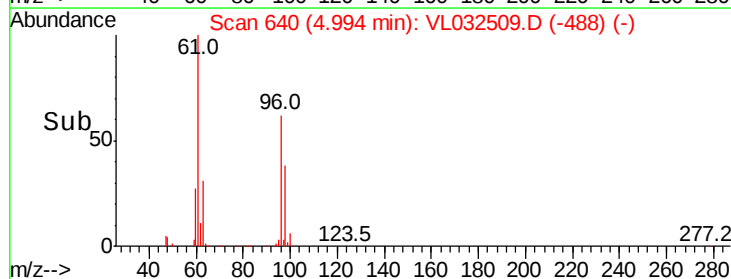
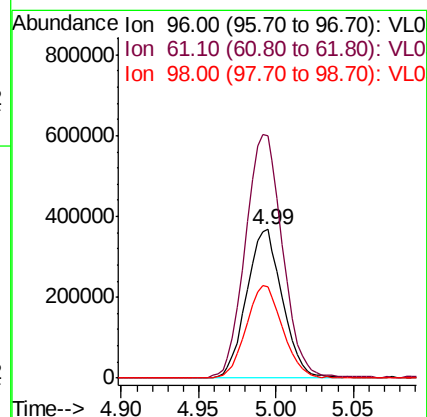
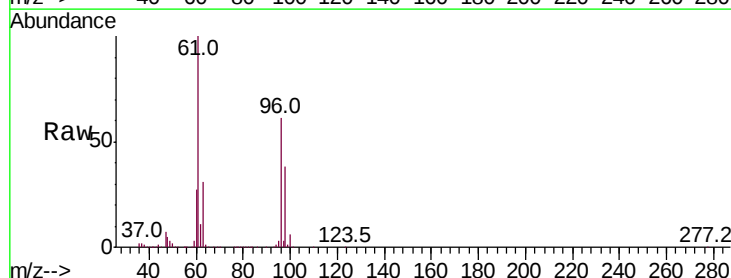
Instrument :
MSVOA_L
ClientSampleId :

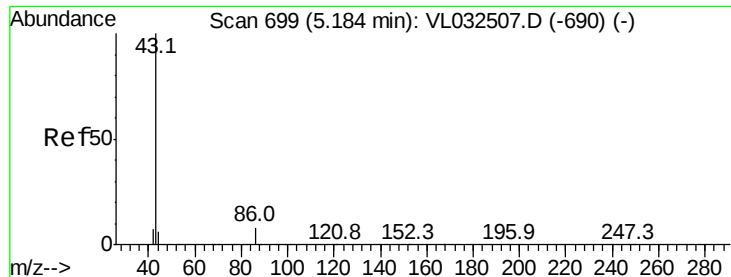
Tot Ion: 41 Resp: 1087964
Ion Ratio Lower Upper
41 100
76 29.5 23.6 35.4
39 72.0 57.7 86.5



#22
trans-1,2-Dichloroethene
Concen: 9.877 ppbv
RT: 4.99 min Scan# 640
Delta R.T. -0.01 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Tgt Ion: 96 Resp: 595822
Ion Ratio Lower Upper
96 100
61 162.8 136.2 204.4
98 61.7 50.4 75.6





#23

Vinyl Acetate

Concen: 10.840 ppbv

RT: 5.18 min Scan# 699

Delta R.T. -0.01 min

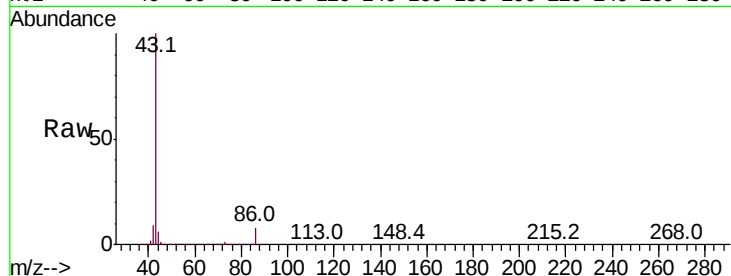
Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 43 Resp: 2518350

Ion	Ratio	Lower	Upper
43	100		
86	7.8	5.9	8.9
42	9.1	6.9	10.3
44	5.6	4.6	7.0

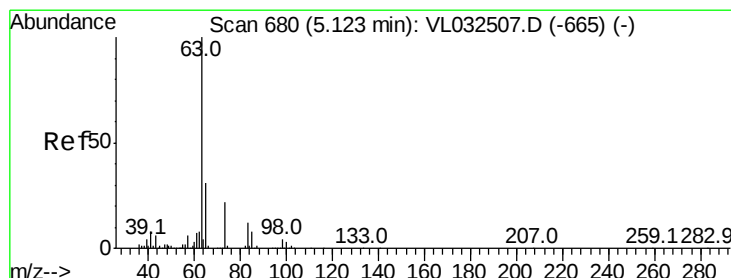
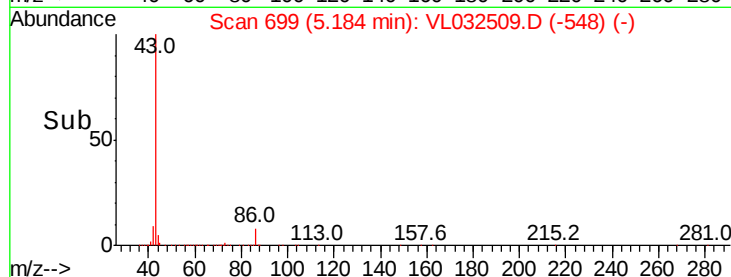
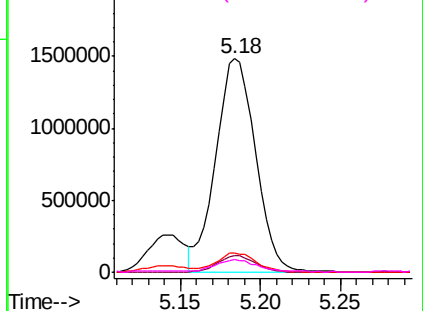


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.731 ppbv

RT: 5.12 min Scan# 680

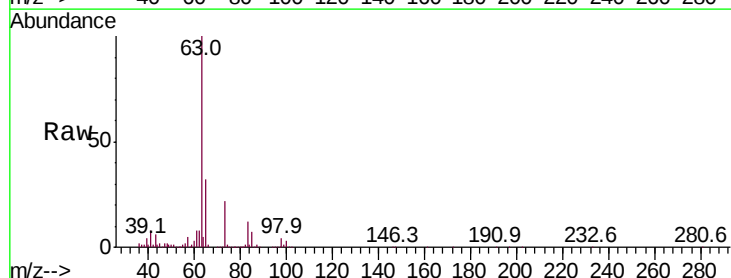
Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Tgt Ion: 63 Resp: 1862903

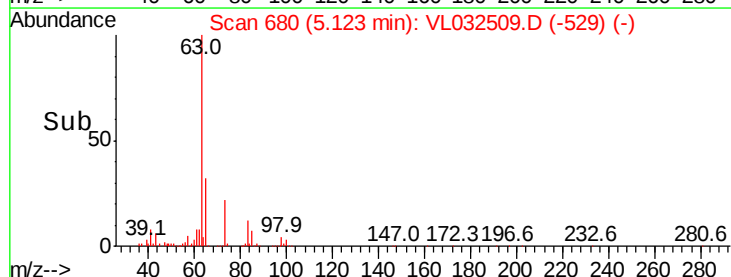
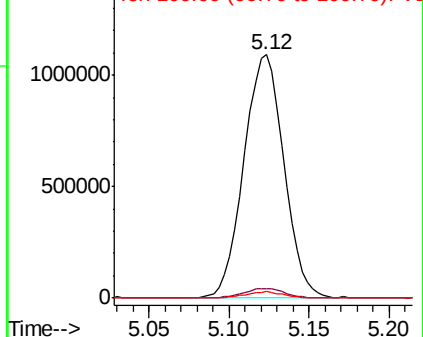
Ion	Ratio	Lower	Upper
63	100		
98	3.8	2.1	6.5
100	2.8	1.5	4.4

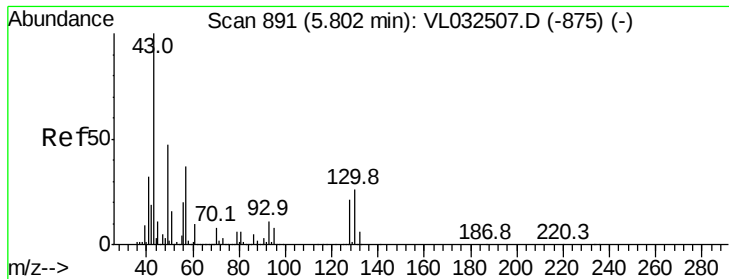


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.523 ppbv

RT: 5.80 min Scan# 891

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 3151849

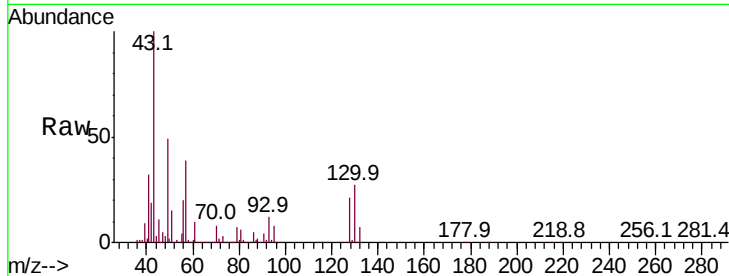
Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.0	12.0
61	9.4	7.6	11.4
70	7.3	5.8	8.8

43 100

45 9.9 8.0 12.0

61 9.4 7.6 11.4

70 7.3 5.8 8.8



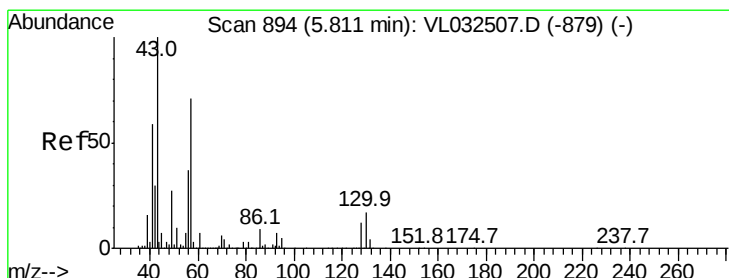
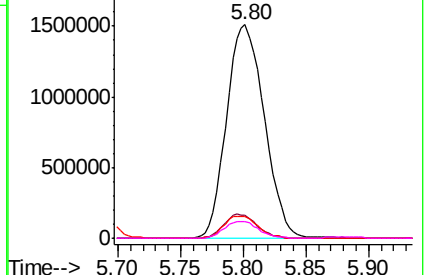
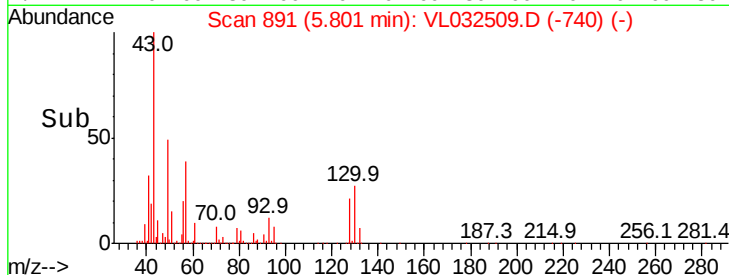
Abundance

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: 9.972 ppbv

RT: 5.81 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Tgt Ion: 57 Resp: 1477987

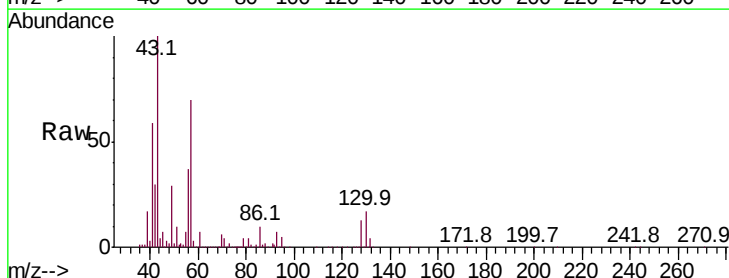
Ion	Ratio	Lower	Upper
57	100		
41	84.6	69.0	103.4
43	213.4	172.1	258.1
56	52.7	42.2	63.2

57 100

41 84.6 69.0 103.4

43 213.4 172.1 258.1

56 52.7 42.2 63.2



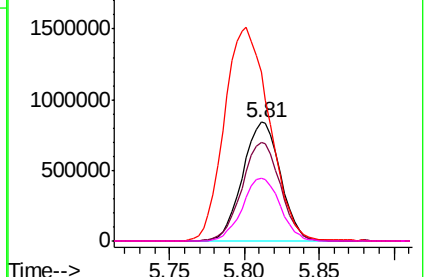
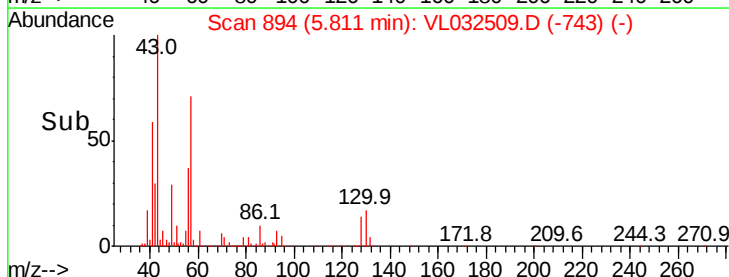
Abundance

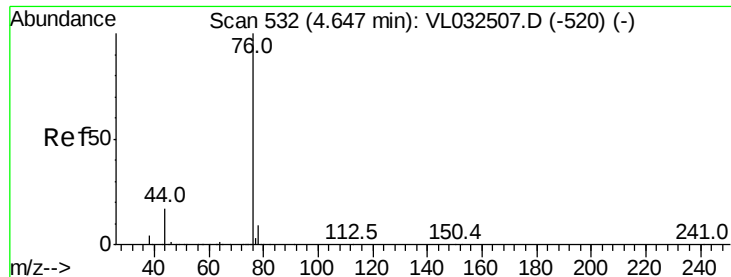
Ion 57.10 (56.80 to 57.80): VL0

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: 11.989 ppbv

RT: 4.65 min Scan# 532

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

ClientSampled :

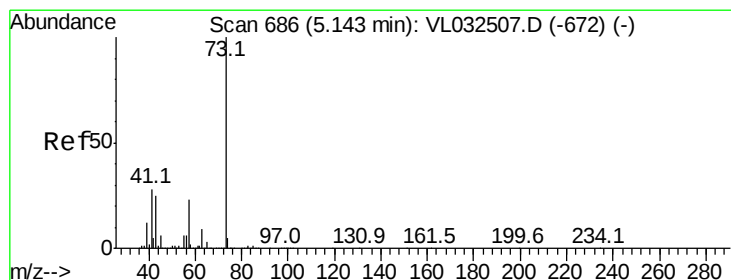
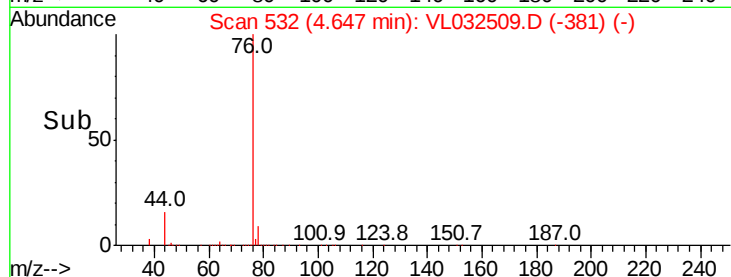
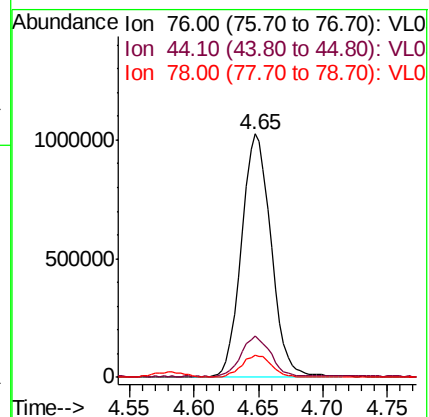
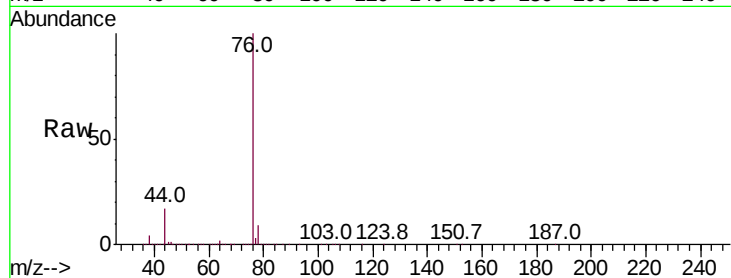
Tot Ion: 76 Resp: 1640292

Ion Ratio Lower Upper

76 100

44 16.6 14.0 21.0

78 9.2 7.5 11.3



#28

Methyl tert-Butyl Ether

Concen: 10.837 ppbv

RT: 5.14 min Scan# 686

Delta R.T. -0.01 min

Lab File: VL032509.D

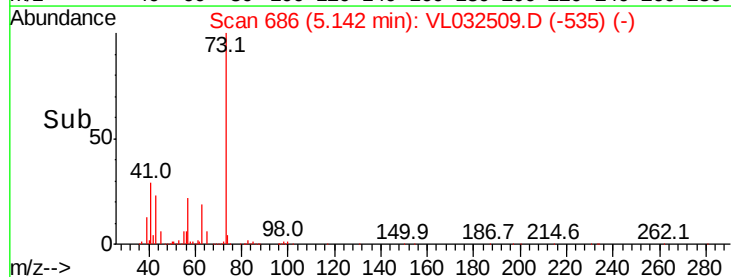
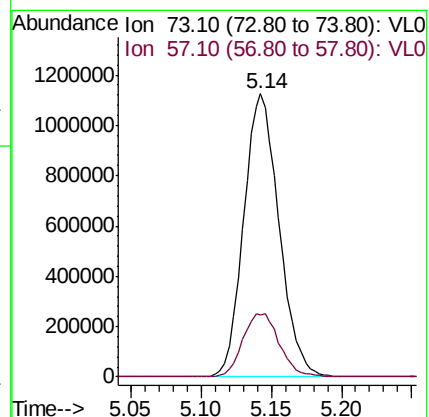
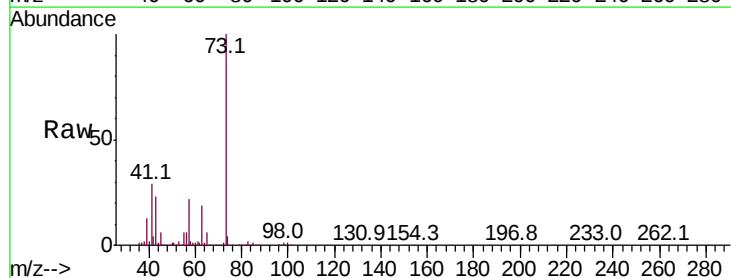
Acq: 20 Sep 2018 16:07

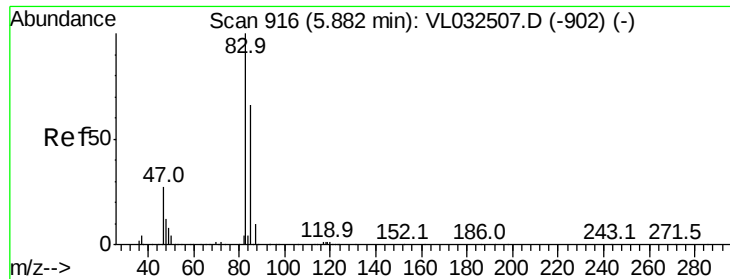
Tgt Ion: 73 Resp: 1972023

Ion Ratio Lower Upper

73 100

57 23.5 19.3 28.9





#29

Chloroform

Concen: 9.575 ppbv

RT: 5.88 min Scan# 916

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

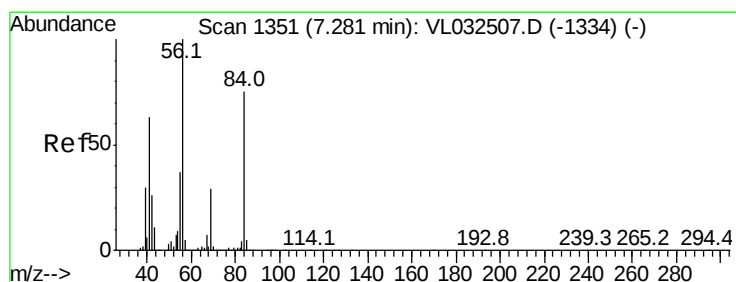
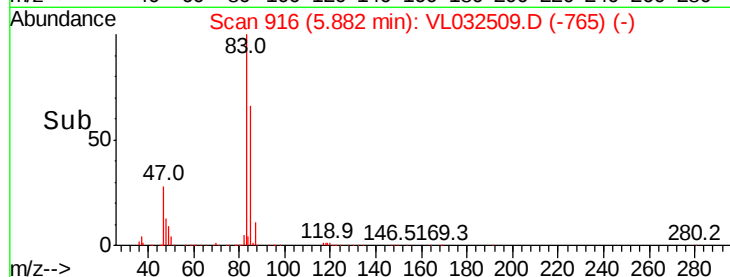
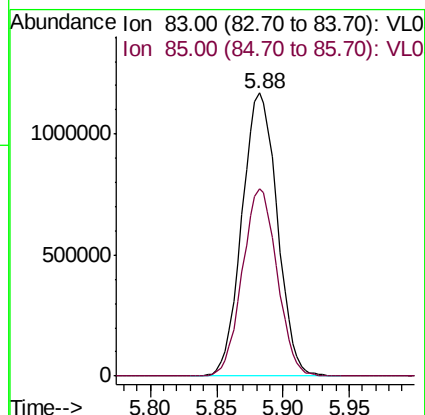
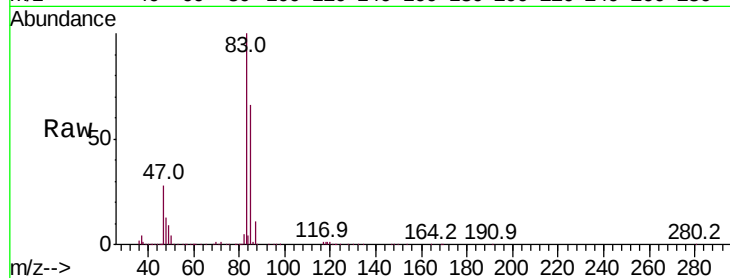
ClientSampleId :

Tot Ion: 83 Resp: 2163603

Ion Ratio Lower Upper

83 100

85 66.0 52.5 78.7



#30

Cyclohexane

Concen: 11.758 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

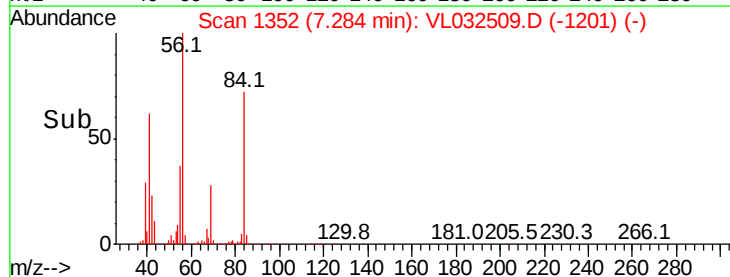
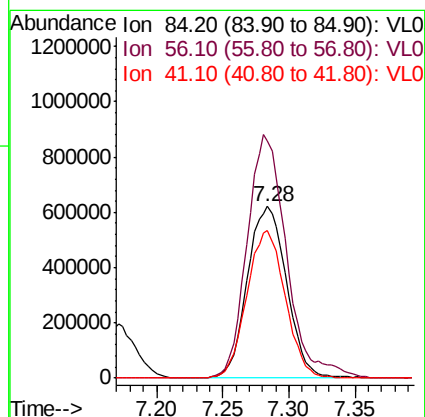
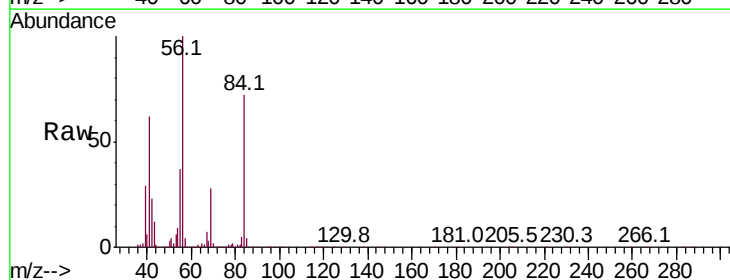
Tgt Ion: 84 Resp: 1275994

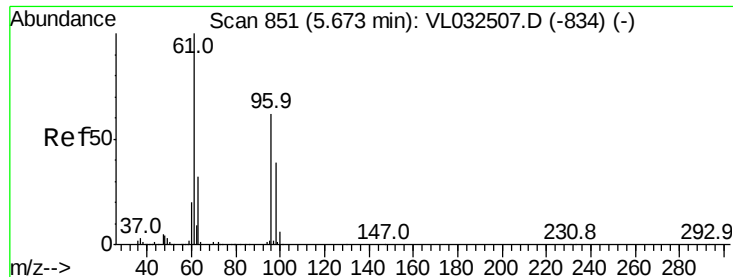
Ion Ratio Lower Upper

84 100

56 142.8 113.5 170.3

41 84.4 68.1 102.1



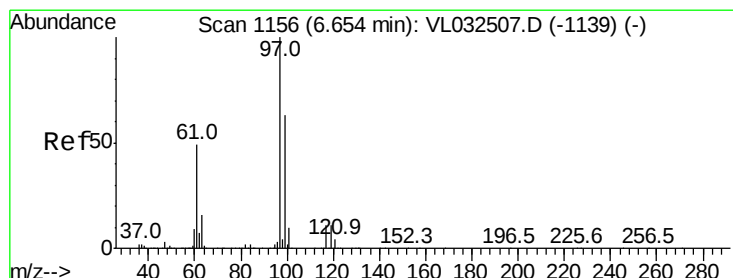
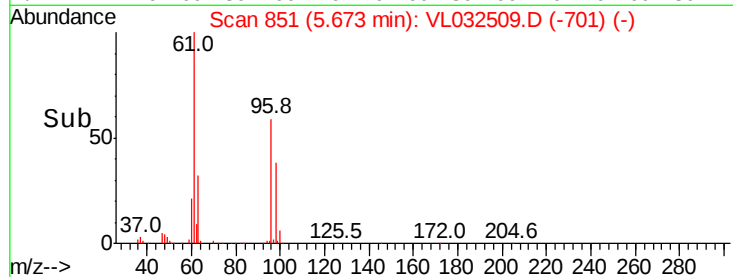
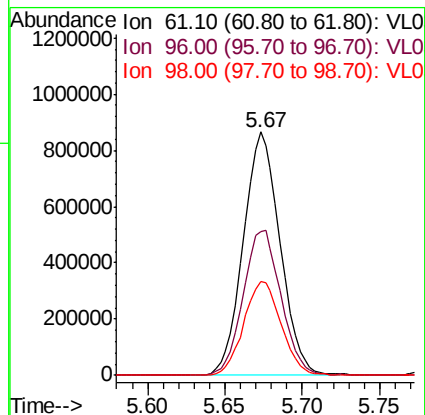
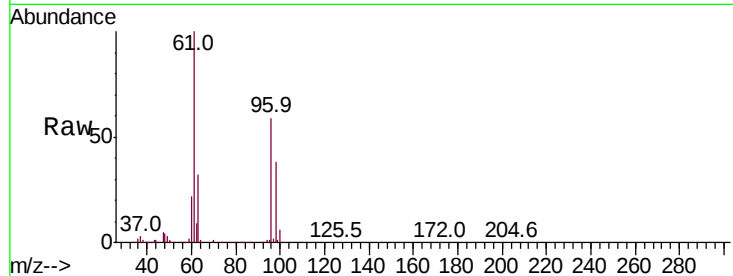


#31

cis-1,2-Dichloroethene
 Concen: 10.667 ppbv
 RT: 5.67 min Scan# 851
 Delta R.T. -0.02 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Instrument :
 MSVOA_L
 ClientSampleId :

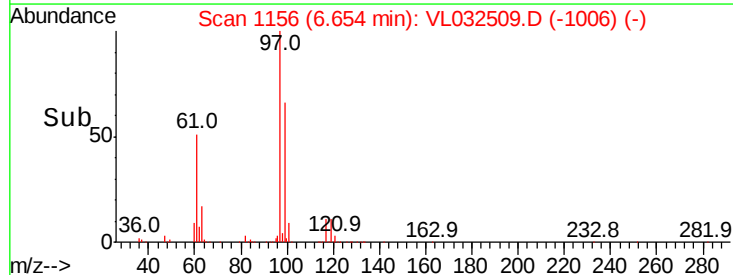
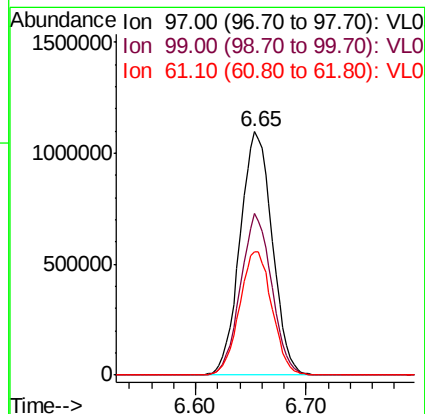
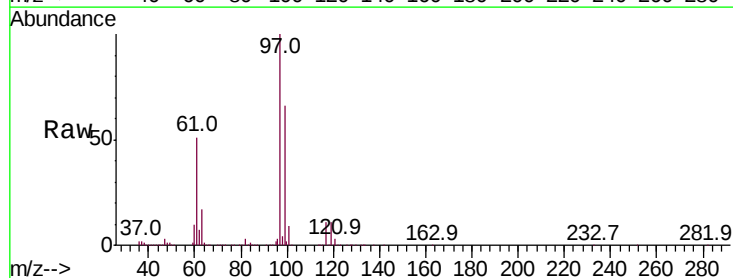
Tot Ion: 61 Resp: 1431495
 Ion Ratio Lower Upper
 61 100
 96 59.2 49.2 73.8
 98 38.3 30.7 46.1

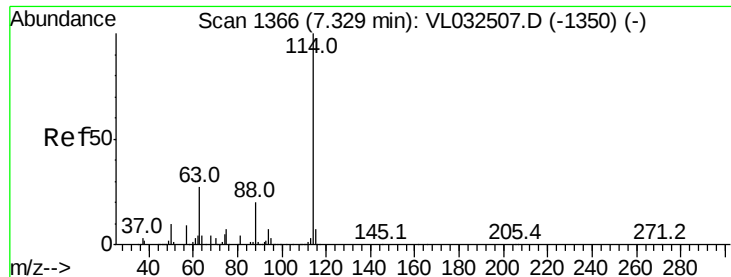


#32

1,1,1-Trichloroethane
 Concen: 10.532 ppbv
 RT: 6.65 min Scan# 1156
 Delta R.T. -0.02 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Tgt Ion: 97 Resp: 2218377
 Ion Ratio Lower Upper
 97 100
 99 64.3 52.1 78.1
 61 51.2 42.5 63.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.33 min Scan# 1366

Delta R.T. -0.02 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

ClientSampled :

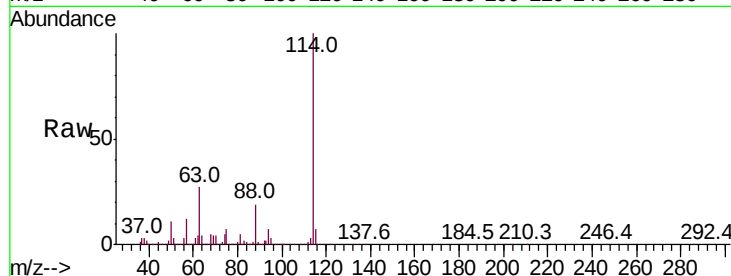
Tot Ion:114 Resp: 3570957

Ion Ratio Lower Upper

114 100

63 27.2 22.2 33.4

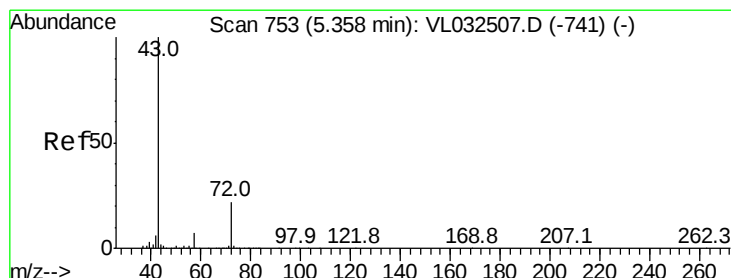
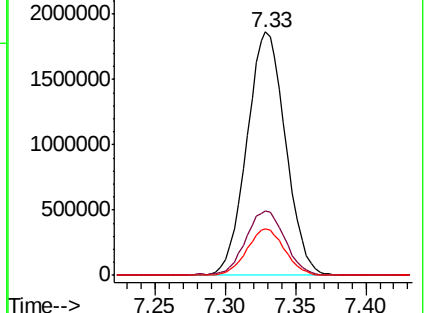
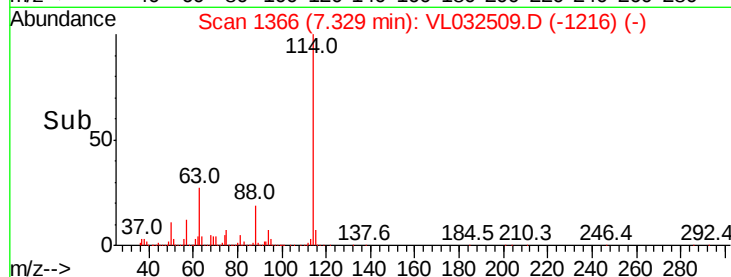
88 18.8 15.0 22.4



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: 8.796 ppbv

RT: 5.36 min Scan# 753

Delta R.T. -0.01 min

Lab File: VL032509.D

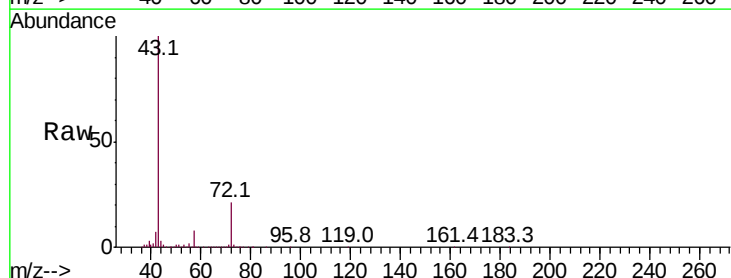
Acq: 20 Sep 2018 16:07

Tgt Ion: 43 Resp: 2086362

Ion Ratio Lower Upper

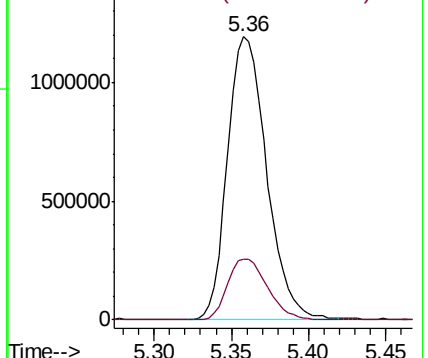
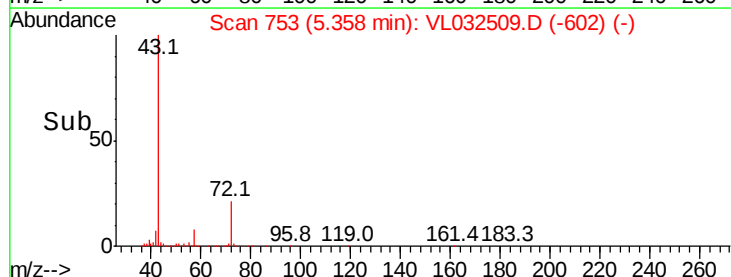
43 100

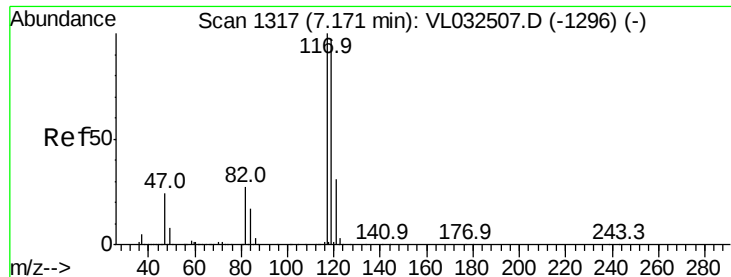
72 22.1 17.8 26.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.349 ppbv

RT: 7.17 min Scan# 1316

Delta R.T. -0.02 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

ClientSampled :

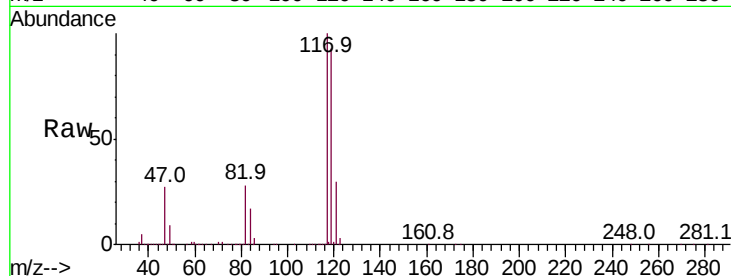
Tot Ion:117 Resp: 2243920

Ion Ratio Lower Upper

117 100

119 93.4 76.6 115.0

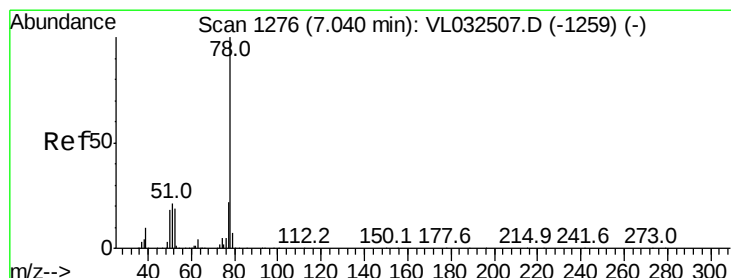
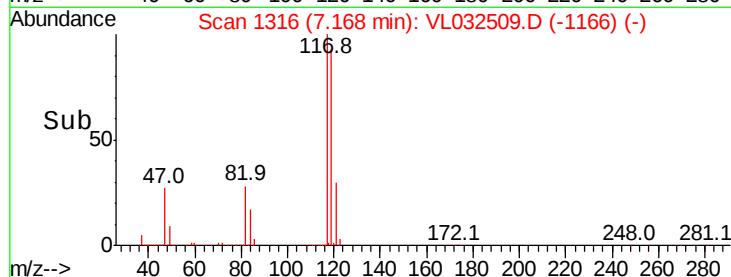
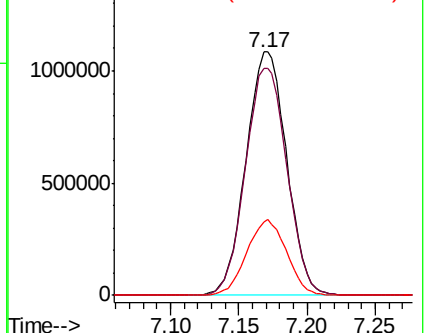
121 29.9 24.6 36.8



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: 9.776 ppbv

RT: 7.04 min Scan# 1277

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

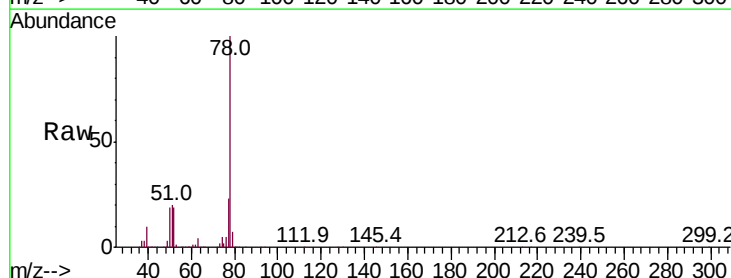
Tgt Ion: 78 Resp: 2970797

Ion Ratio Lower Upper

78 100

77 22.7 18.4 27.6

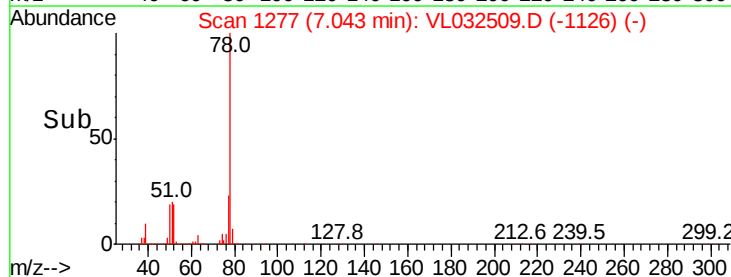
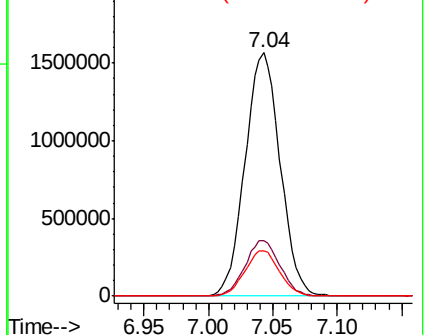
50 18.5 14.4 21.6

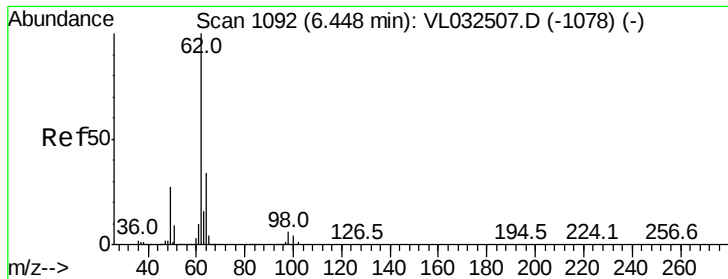


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 9.081 ppbv

RT: 6.45 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

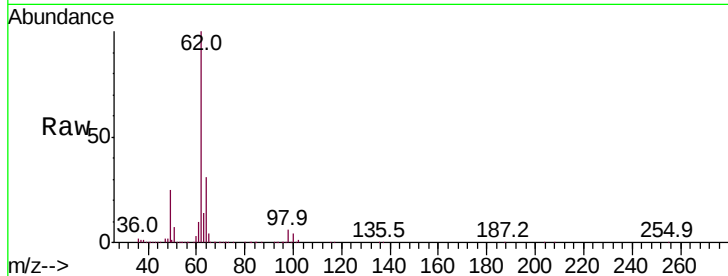
ClientSampleId :

Tot Ion: 62 Resp: 1691054

Ion Ratio Lower Upper

62 100

98 6.1 5.0 7.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.45

1000000

800000

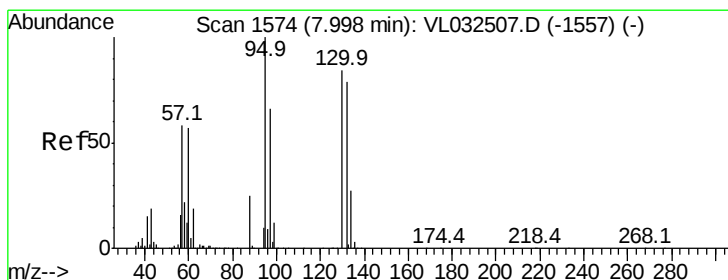
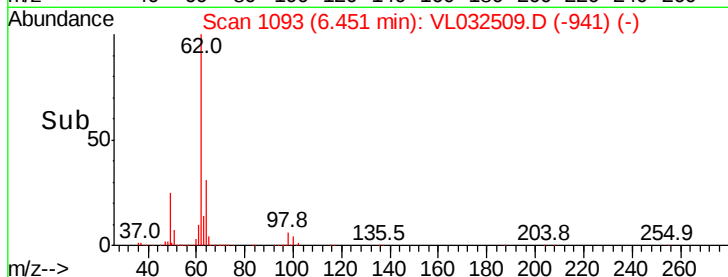
600000

400000

200000

0

Time--> 6.35 6.40 6.45 6.50



#38

Trichloroethene

Concen: 9.511 ppbv

RT: 8.00 min Scan# 1575

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Tgt Ion:130 Resp: 1097897

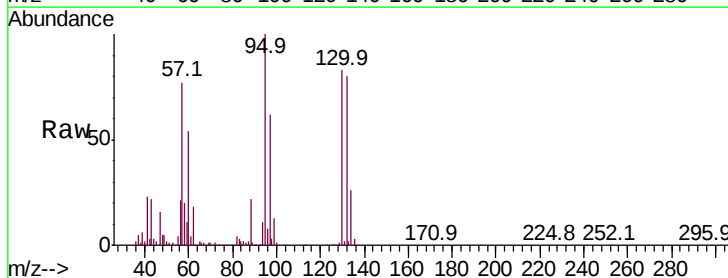
Ion Ratio Lower Upper

130 100

95 120.9 94.2 141.4

132 96.1 76.2 114.4

97 75.5 60.8 91.2



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

1000000

800000

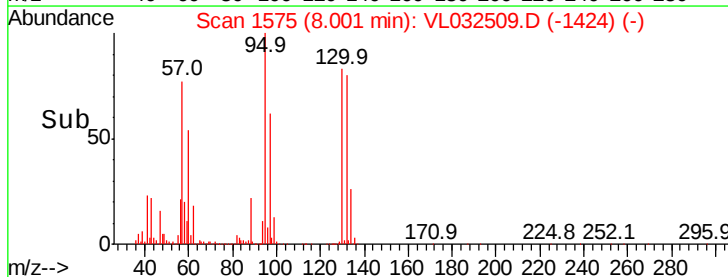
600000

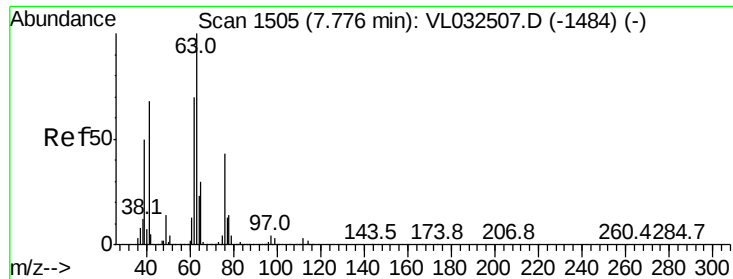
400000

200000

0

Time--> 7.90 7.95 8.00 8.05 8.10



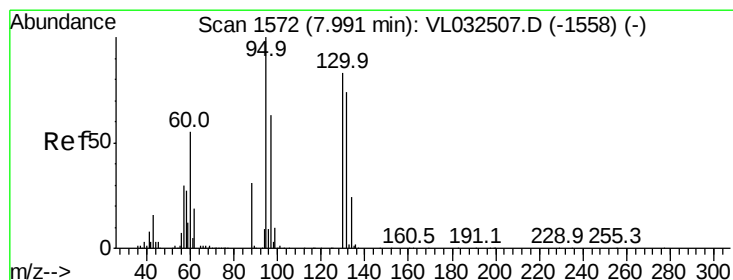
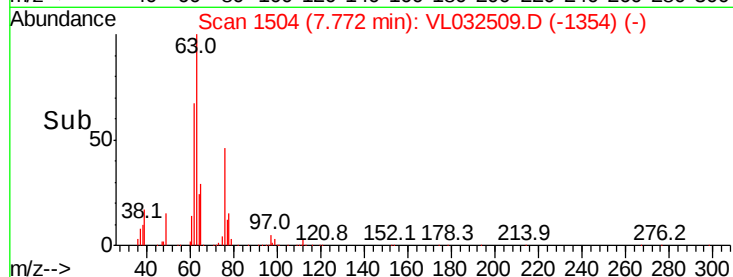
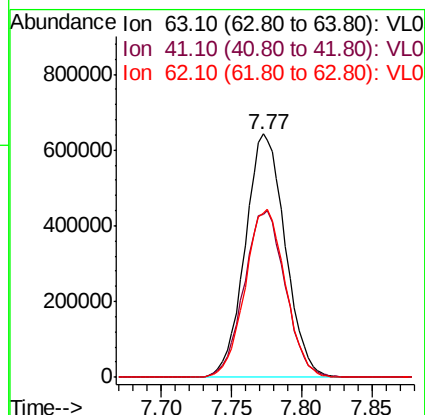
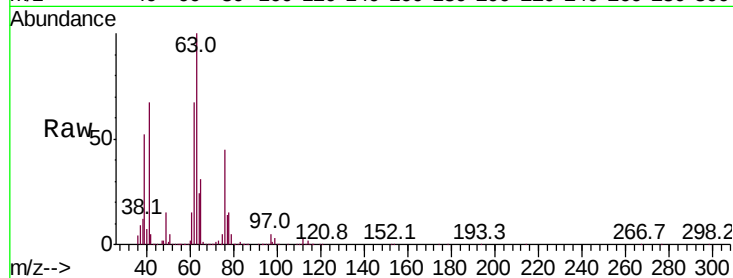


#39
 1,2-Dichloropropane
 Concen: 9.822 ppbv
 RT: 7.77 min Scan# 1504
 Delta R.T. -0.02 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 63 Resp: 1277057

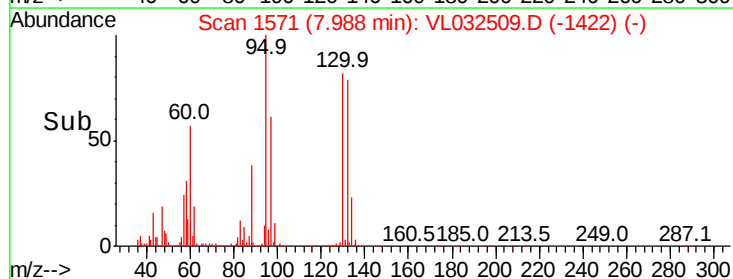
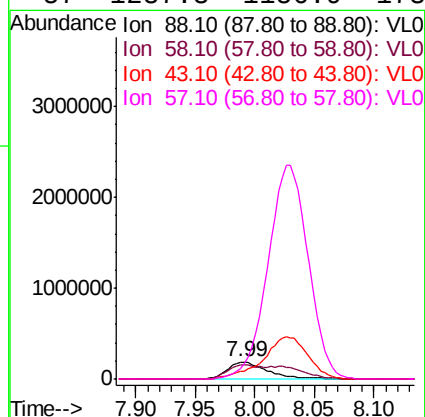
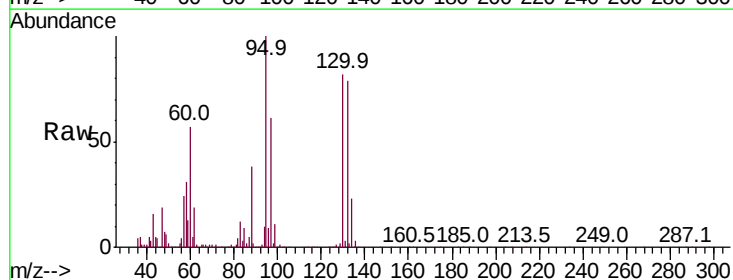
Ion	Ratio	Lower	Upper
63	100		
41	67.1	55.4	83.0
62	67.1	55.4	83.0

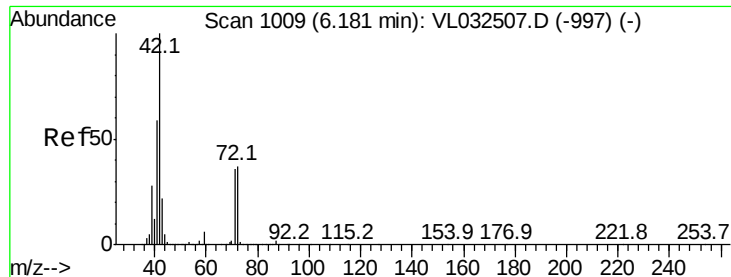


#40
 1,4-Dioxane
 Concen: 11.027 ppbv
 RT: 7.99 min Scan# 1571
 Delta R.T. -0.02 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Tgt Ion: 88 Resp: 430135

Ion	Ratio	Lower	Upper
88	100		
58	140.0	119.7	179.5
43	280.3	253.0	379.4
57	1287.3	1156.9	1735.3





#41

Tetrahydrofuran

Concen: 10.036 ppbv

RT: 6.18 min Scan# 1009

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

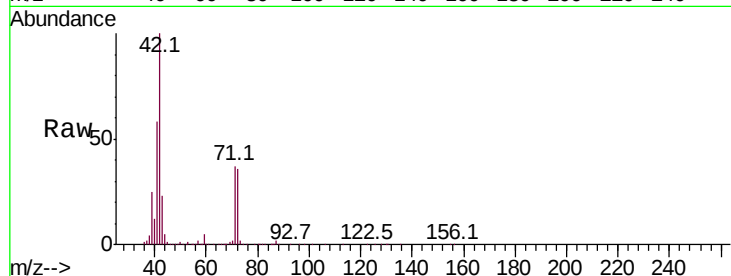
Instrument :

MSVOA_L

ClientSampled :

Tot Ion: 42 Resp: 1295892

Ion	Ratio	Lower	Upper
42	100		
72	37.5	29.5	44.3
71	35.9	28.3	42.5

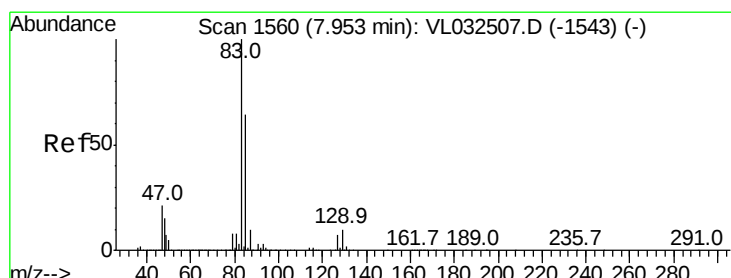
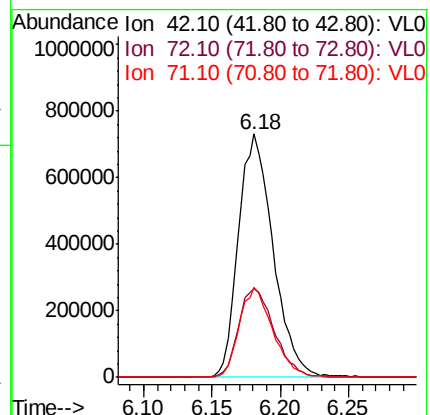
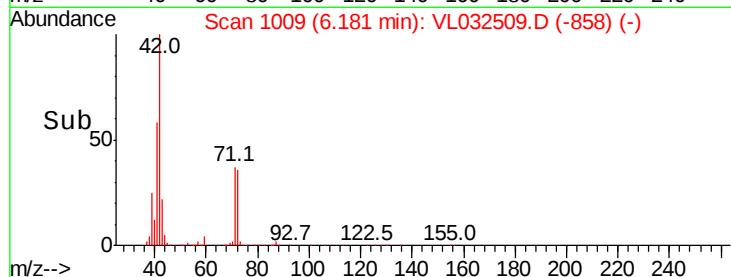


Abundance

Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 9.645 ppbv

RT: 7.96 min Scan# 1561

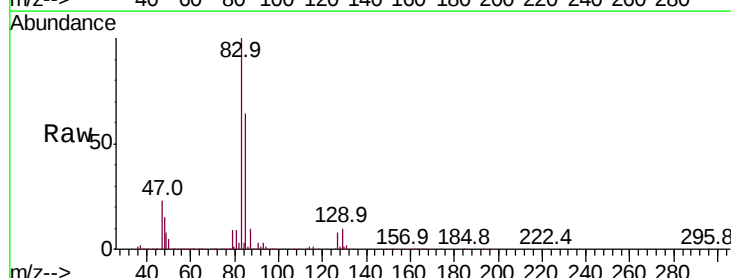
Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Tgt Ion: 83 Resp: 2477287

Ion	Ratio	Lower	Upper
83	100		
85	64.1	51.1	76.7
127	7.8	5.8	8.8

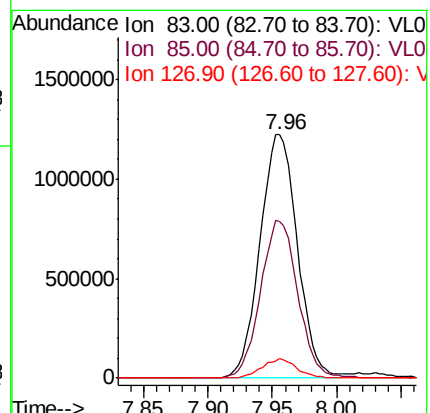
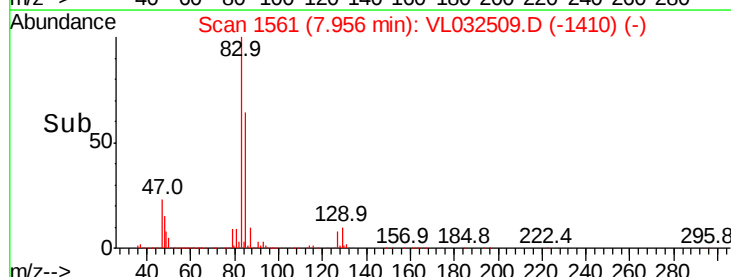


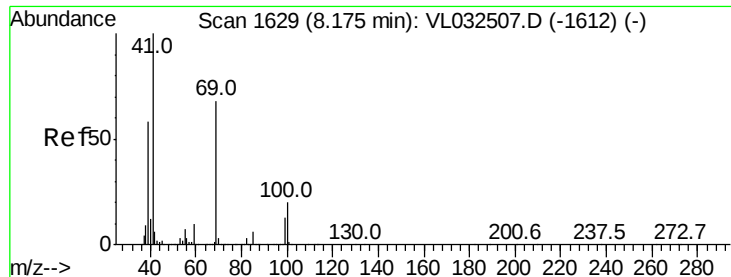
Abundance

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0





#43

Methyl Methacrylate

Concen: 9.986 ppbv

RT: 8.17 min Scan# 1629

Delta R.T. -0.01 min

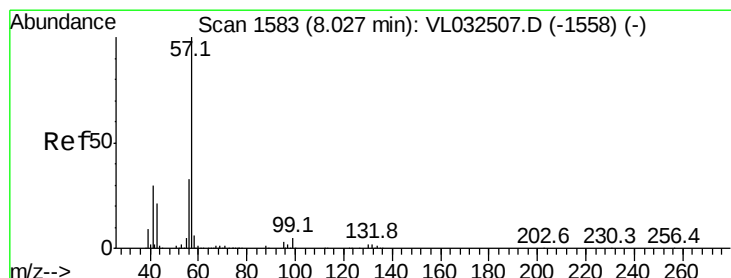
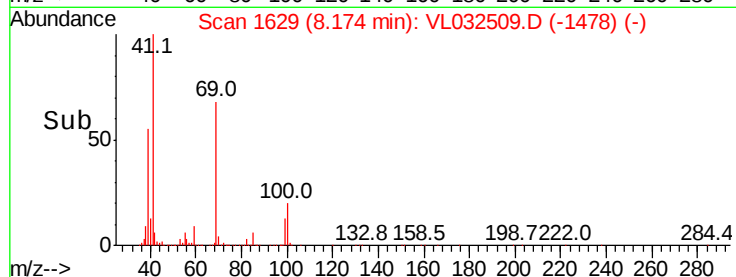
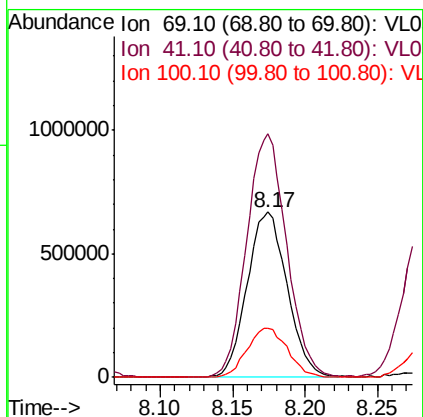
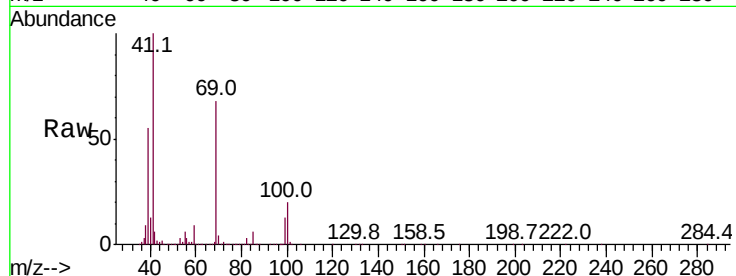
Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 69 Resp: 1287374

Ion	Ratio	Lower	Upper
69	100		
41	146.9	117.1	175.7
100	30.1	23.4	35.2



#44

2,2,4-Trimethylpentane

Concen: 9.415 ppbv

RT: 8.03 min Scan# 1584

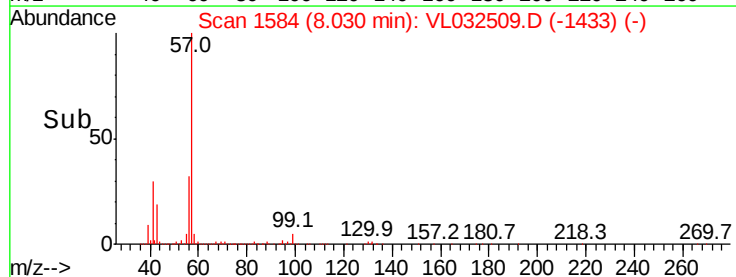
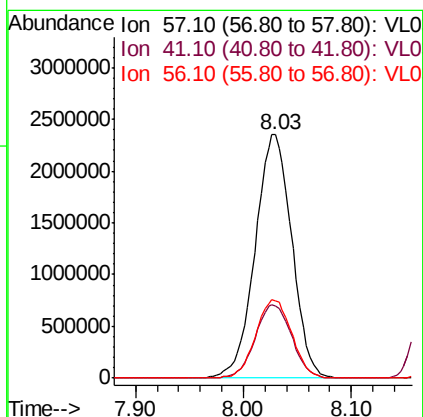
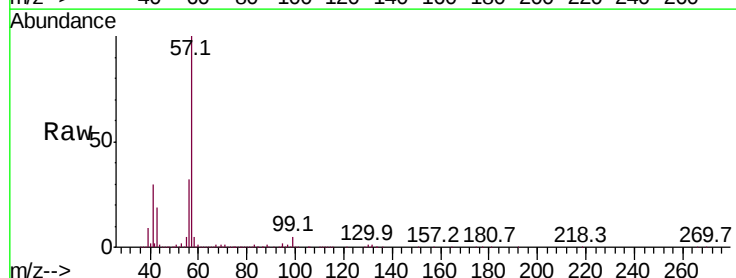
Delta R.T. -0.01 min

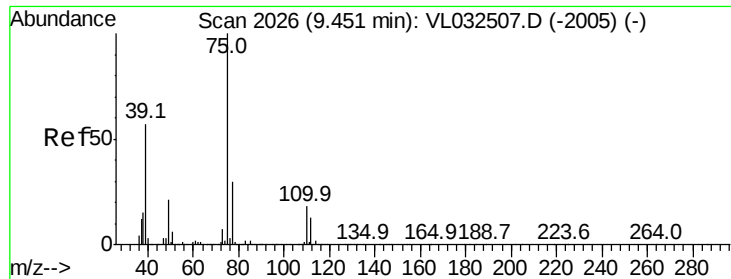
Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Tgt Ion: 57 Resp: 5531473

Ion	Ratio	Lower	Upper
57	100		
41	30.1	24.4	36.6
56	31.7	25.7	38.5





#45

t-1,3-Dichloropropene

Concen: 12.804 ppbv

RT: 9.45 min Scan# 2027

Delta R.T. -0.02 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

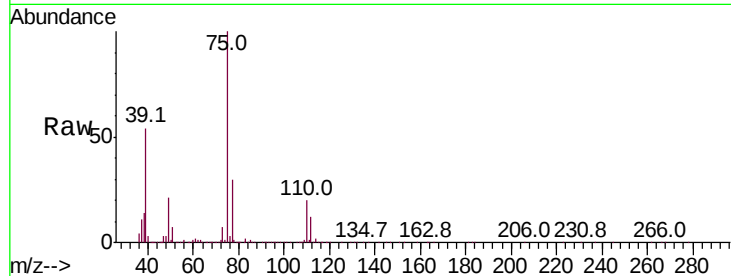
ClientSampled :

Tot Ion: 75 Resp: 1766434

Ion Ratio Lower Upper

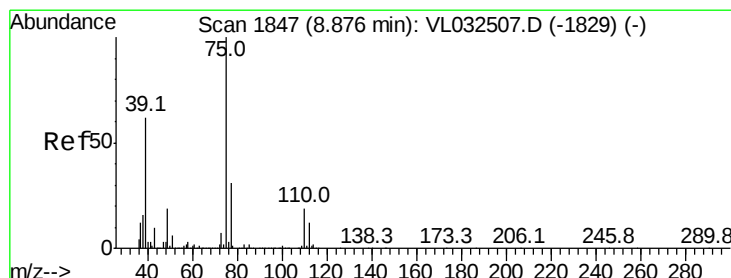
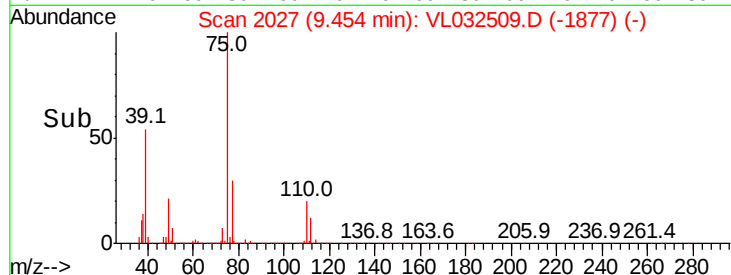
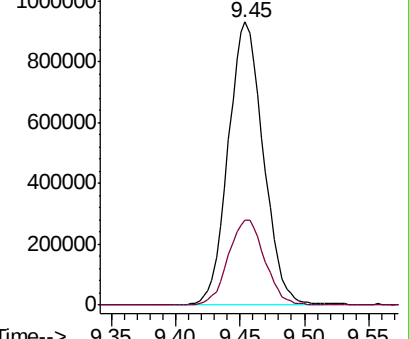
75 100

77 30.2 26.2 39.2



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 10.672 ppbv

RT: 8.88 min Scan# 1847

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

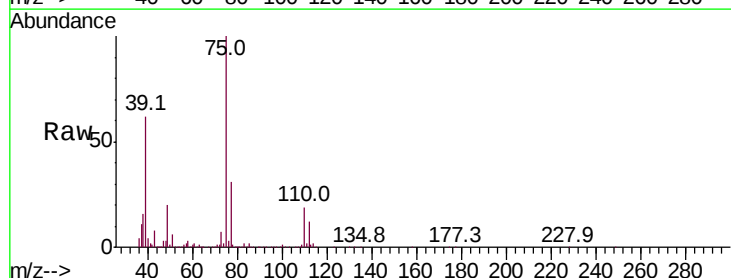
Tgt Ion: 75 Resp: 1881337

Ion Ratio Lower Upper

75 100

39 61.7 48.9 73.3

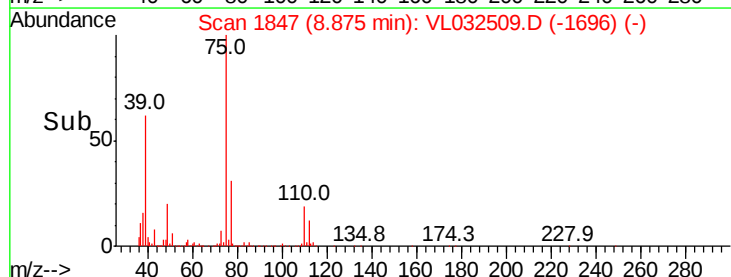
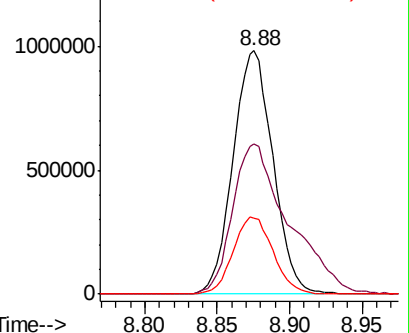
77 30.9 25.4 38.0

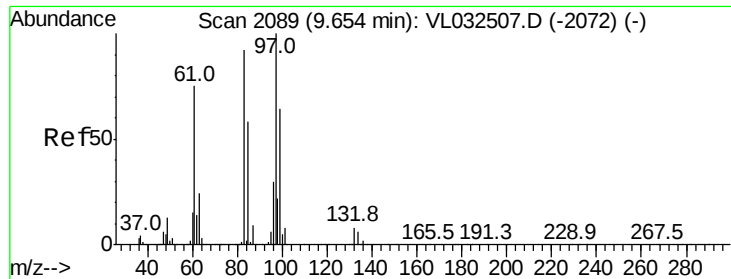


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0



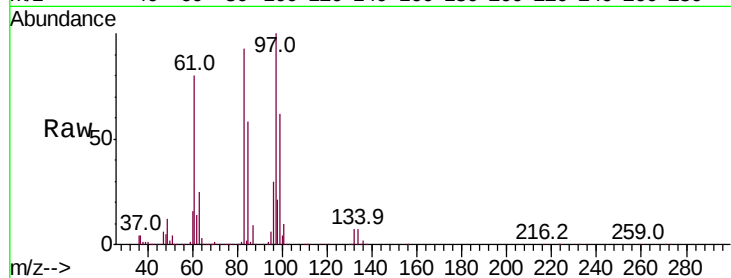


#47
 1,1,2-Trichloroethane
 Concen: 9.864 ppbv
 RT: 9.65 min Scan# 2089
 Delta R.T. -0.02 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 97 Resp: 1363565

Ion	Ratio	Lower	Upper
97	100		
83	92.5	75.0	112.4
85	58.1	47.5	71.3
99	61.6	49.0	73.6



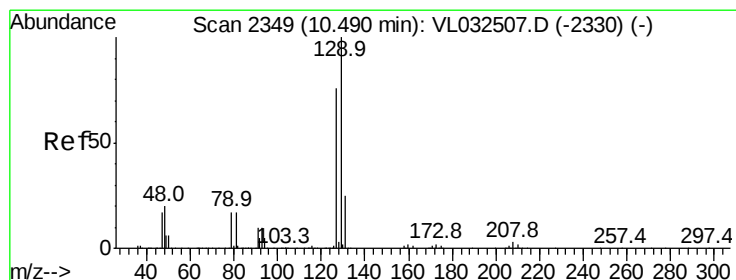
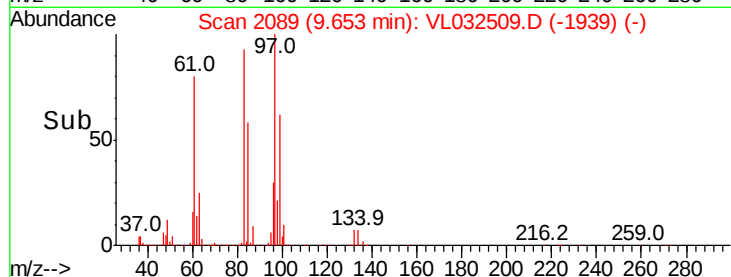
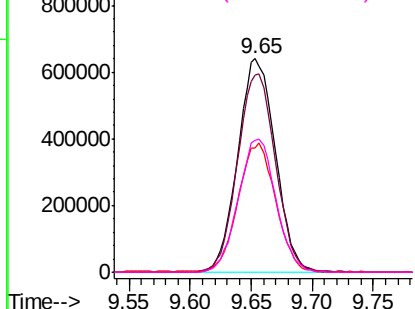
Abundance

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

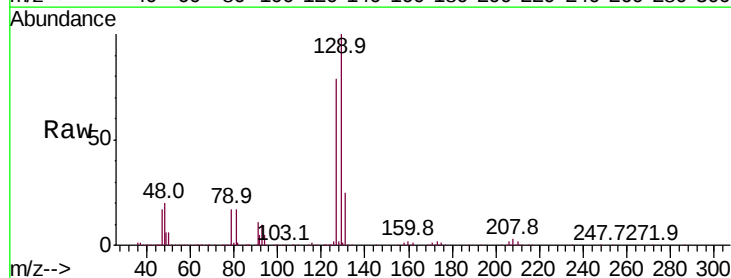
Ion 99.00 (98.70 to 99.70): VL0



#48
 Dibromochloromethane
 Concen: 11.668 ppbv
 RT: 10.49 min Scan# 2350
 Delta R.T. -0.01 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Tgt Ion: 129 Resp: 2233930

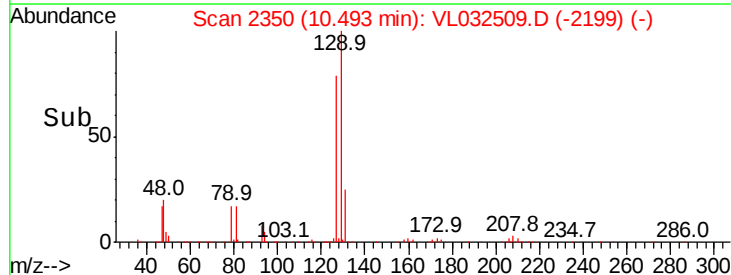
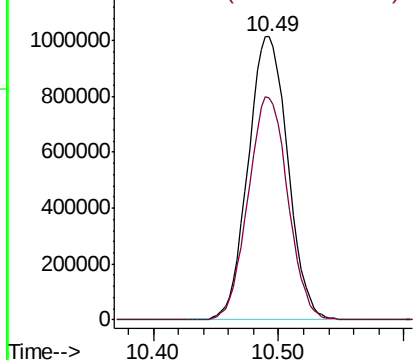
Ion	Ratio	Lower	Upper
129	100		
127	78.9	39.5	118.3

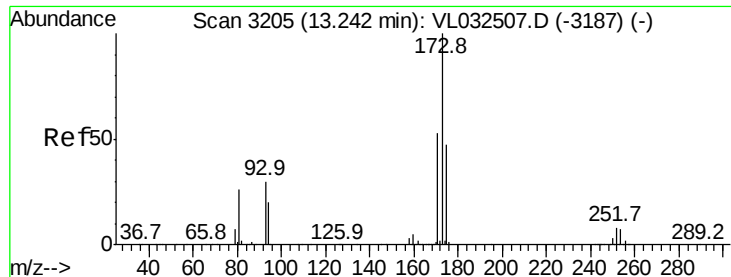


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.183 ppbv

RT: 13.24 min Scan# 3206

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

ClientSampleId :

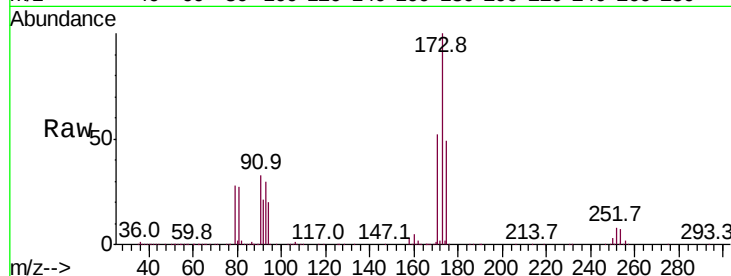
Tot Ion:173 Resp: 1694496

Ion Ratio Lower Upper

173 100

175 49.1 38.9 58.3

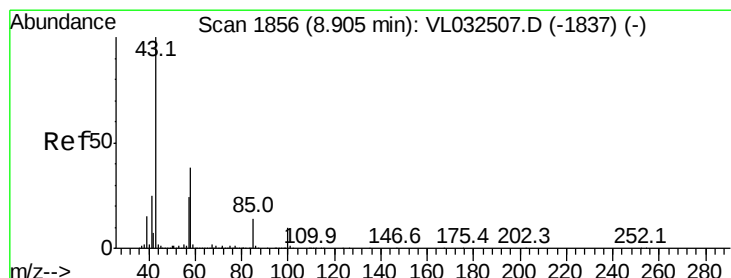
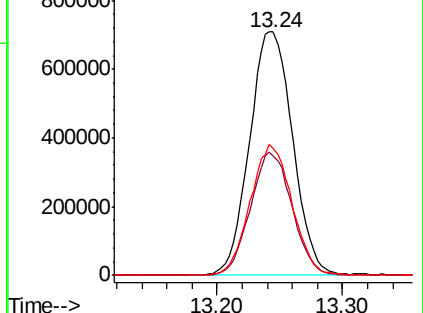
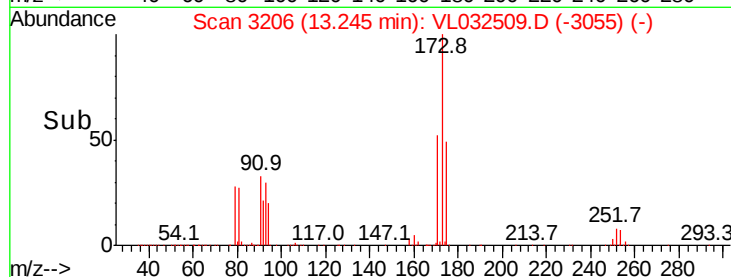
171 52.1 41.6 62.4



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: 9.278 ppbv

RT: 8.91 min Scan# 1857

Delta R.T. -0.01 min

Lab File: VL032509.D

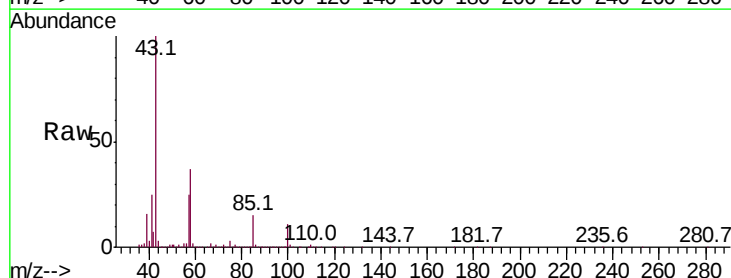
Acq: 20 Sep 2018 16:07

Tgt Ion: 43 Resp: 3315053

Ion Ratio Lower Upper

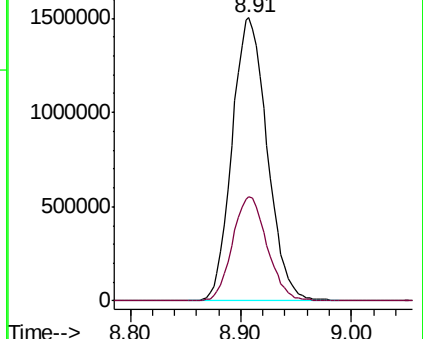
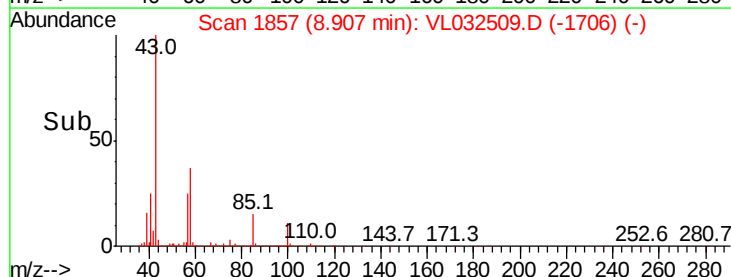
43 100

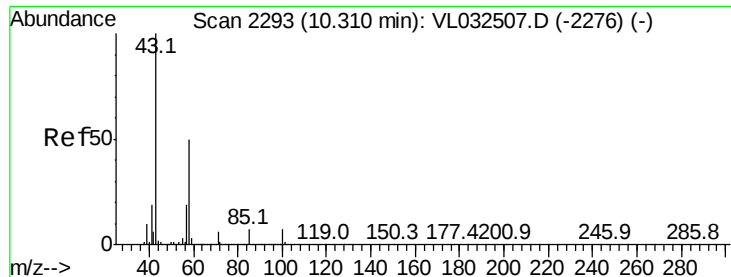
58 36.4 29.0 43.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 12.951 ppbv

RT: 10.31 min Scan# 2293

Delta R.T. -0.02 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

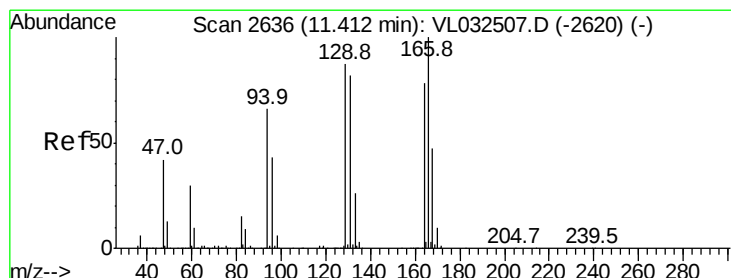
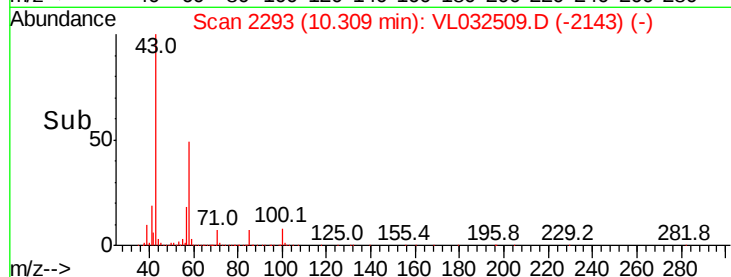
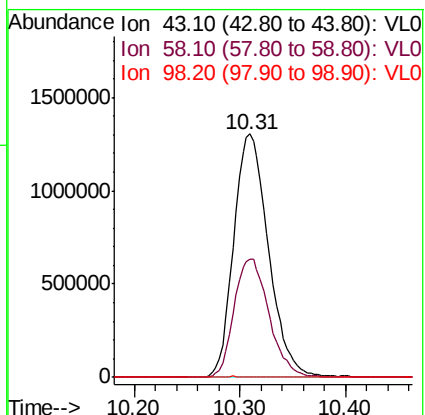
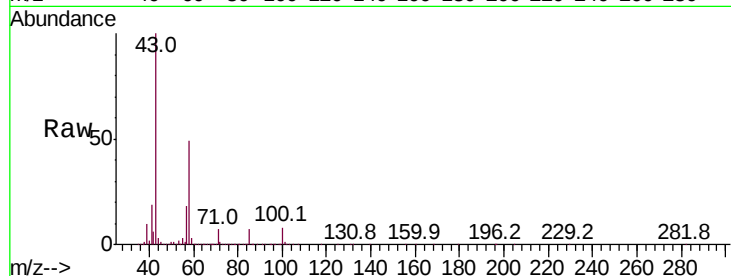
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 2980716

Ion	Ratio	Lower	Upper
43	100		
58	49.2	39.2	58.8
98	0.5	0.4	0.6



#52

Tetrachloroethene

Concen: 10.282 ppbv

RT: 11.41 min Scan# 2636

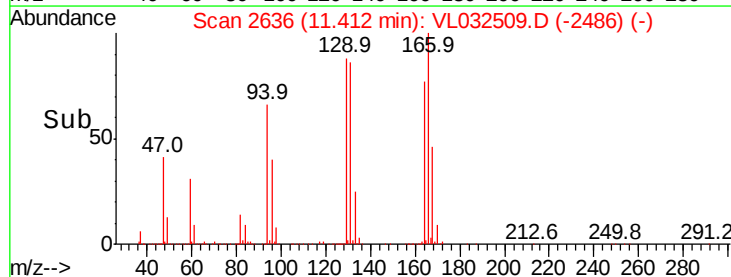
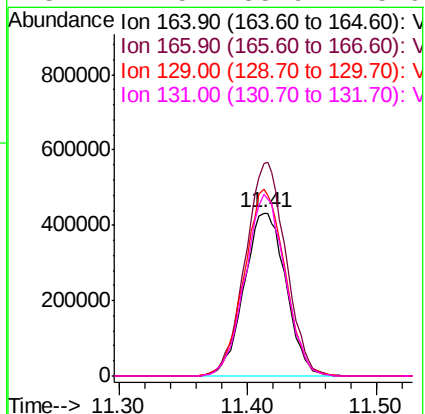
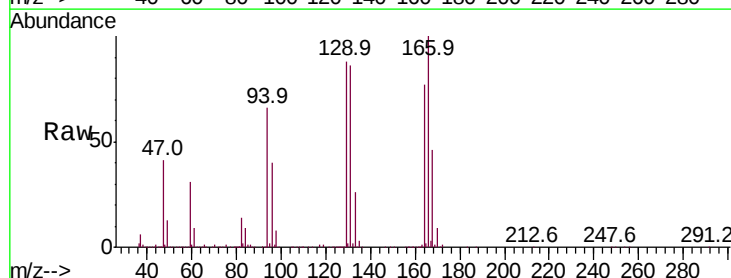
Delta R.T. -0.02 min

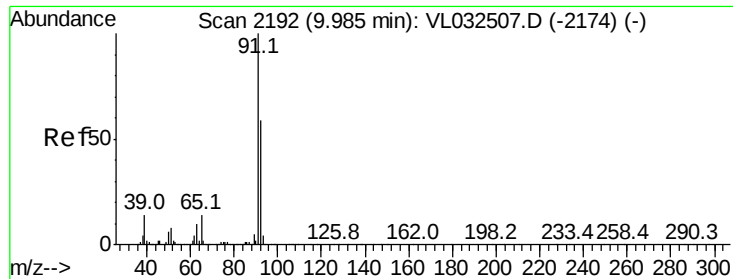
Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Tgt Ion: 164 Resp: 968883

Ion	Ratio	Lower	Upper
164	100		
166	130.1	100.6	150.8
129	114.5	89.9	134.9
131	111.5	85.9	128.9





#53

Toluene

Concen: 11.988 ppbv

RT: 9.99 min Scan# 2193

Delta R.T. -0.02 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

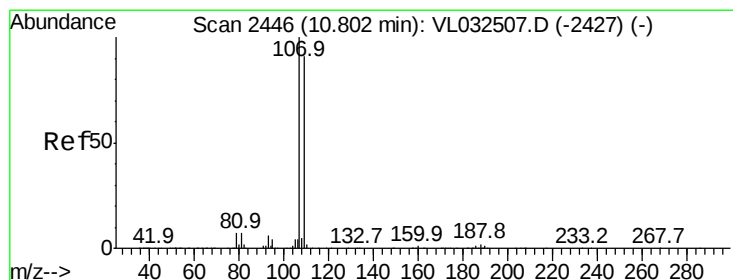
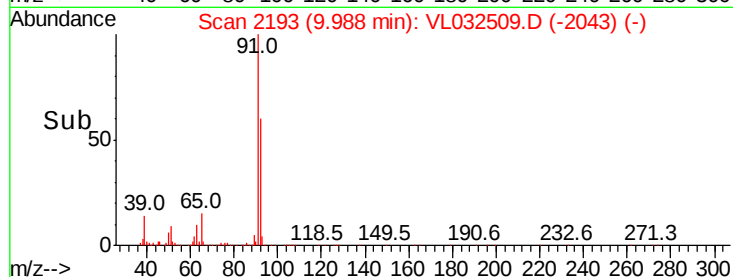
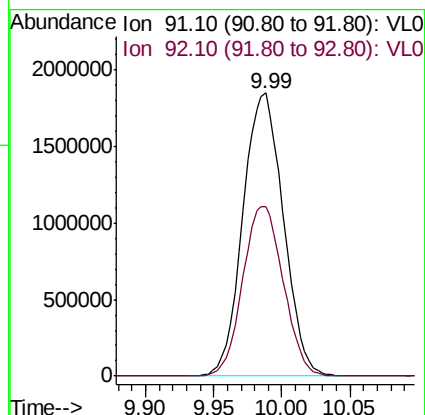
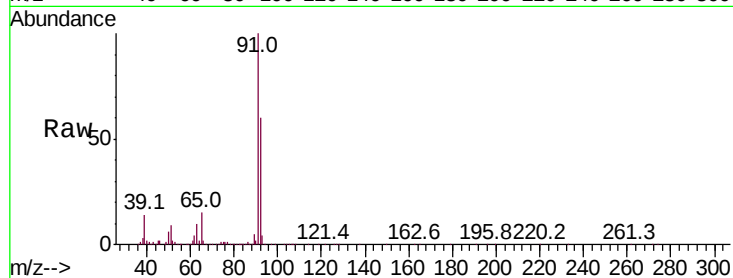
ClientSampleId :

Tot Ion: 91 Resp: 3807930

Ion Ratio Lower Upper

91 100

92 60.4 48.1 72.1



#54

1,2-Dibromoethane

Concen: 11.021 ppbv

RT: 10.80 min Scan# 2446

Delta R.T. -0.01 min

Lab File: VL032509.D

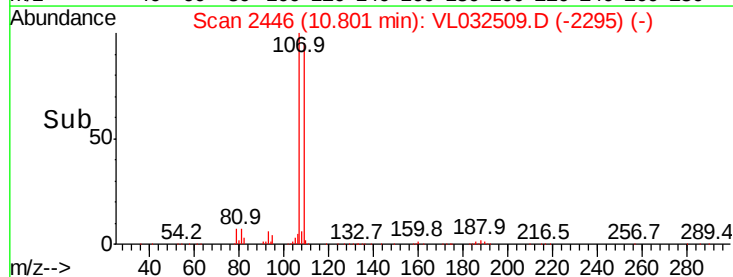
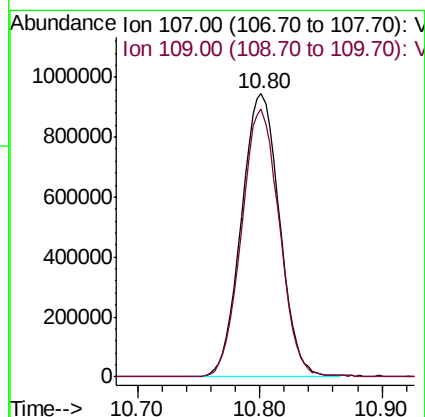
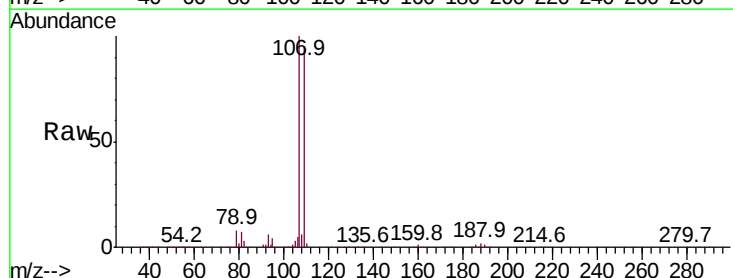
Acq: 20 Sep 2018 16:07

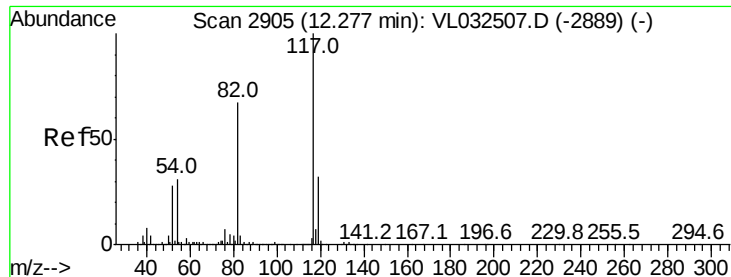
Tgt Ion: 107 Resp: 2045580

Ion Ratio Lower Upper

107 100

109 94.5 73.9 110.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.28 min Scan# 2906

Delta R.T. -0.02 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

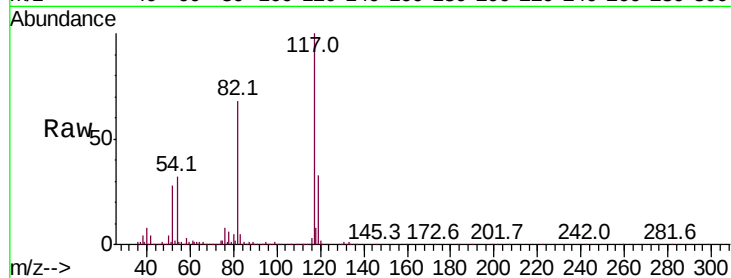
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:117 Resp: 4487697

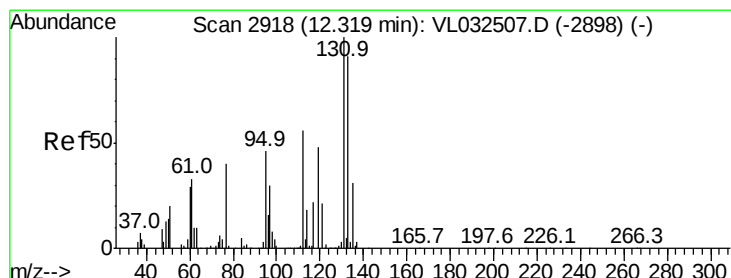
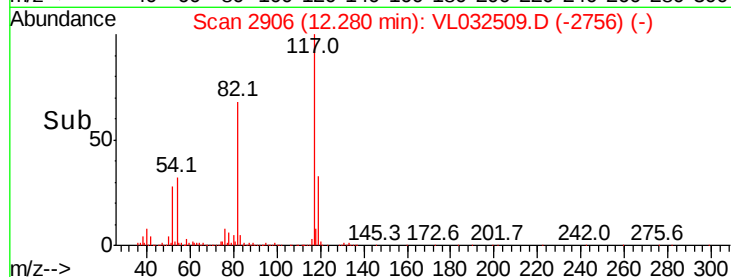
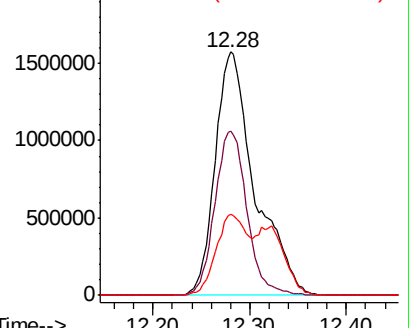
Ion	Ratio	Lower	Upper
117	100		
82	54.5	53.0	79.6
119	47.0	45.9	68.9



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 7.351 ppbv

RT: 12.32 min Scan# 2918

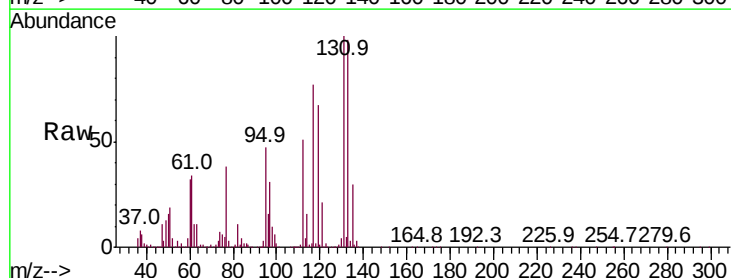
Delta R.T. -0.02 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Tgt Ion:131 Resp: 1487171

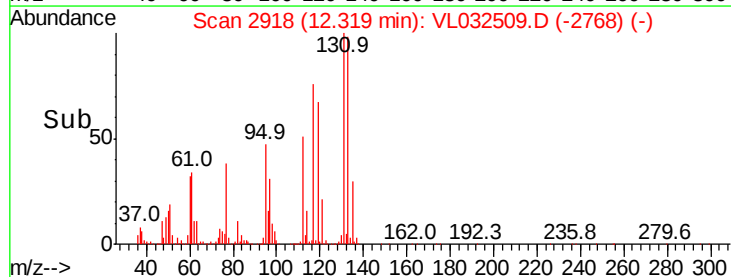
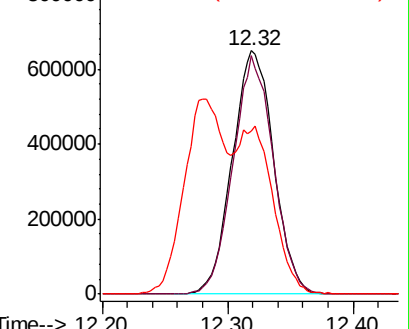
Ion	Ratio	Lower	Upper
131	100		
133	95.4	77.0	115.4
119	60.8	114.2	171.2#

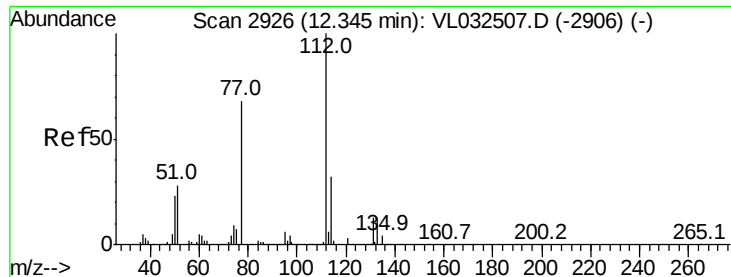


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 7.356 ppbv

RT: 12.34 min Scan# 2925

Delta R.T. -0.02 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

ClientSampleId :

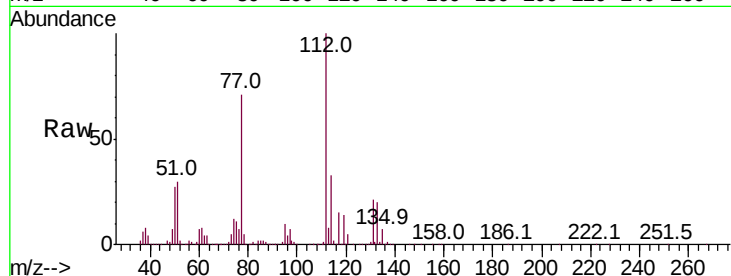
Tot Ion:112 Resp: 2638390

Ion	Ratio	Lower	Upper
112	100		
77	70.4	56.1	84.1
114	32.8	27.8	34.0

112 100

77 70.4 56.1 84.1

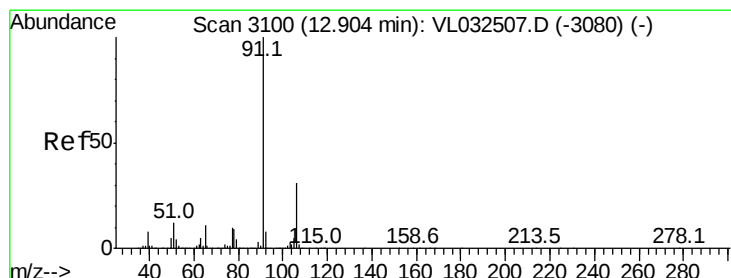
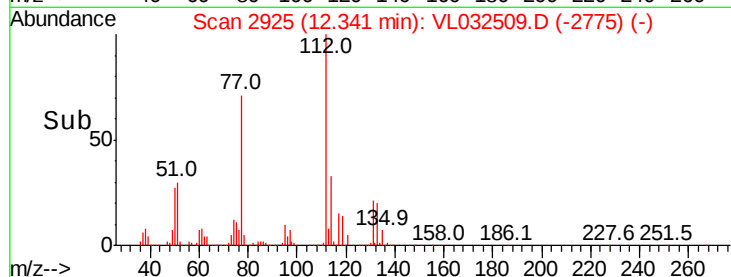
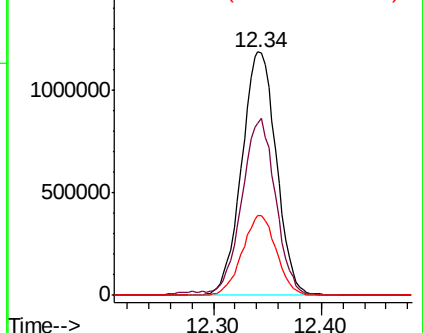
114 32.8 27.8 34.0



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: 8.842 ppbv

RT: 12.91 min Scan# 3101

Delta R.T. -0.01 min

Lab File: VL032509.D

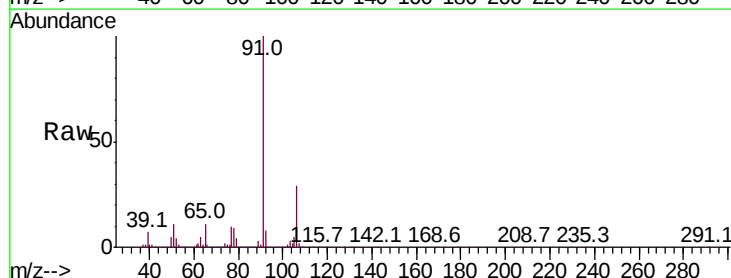
Acq: 20 Sep 2018 16:07

Tgt Ion: 91 Resp: 4748299

Ion	Ratio	Lower	Upper
91	100		
106	29.4	24.8	37.2

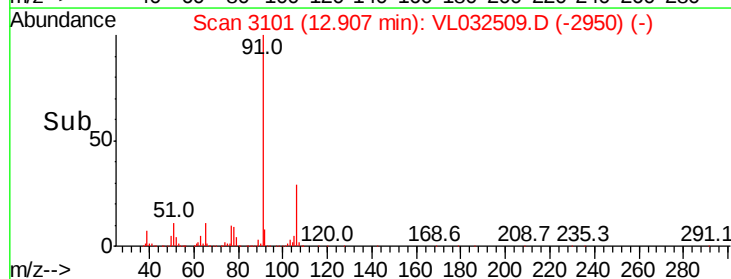
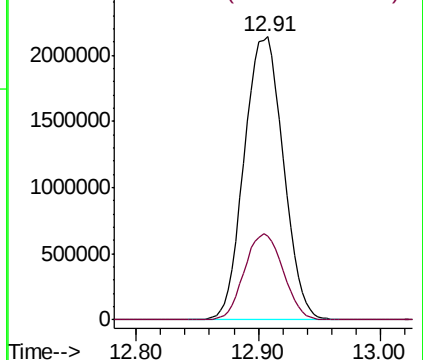
91 100

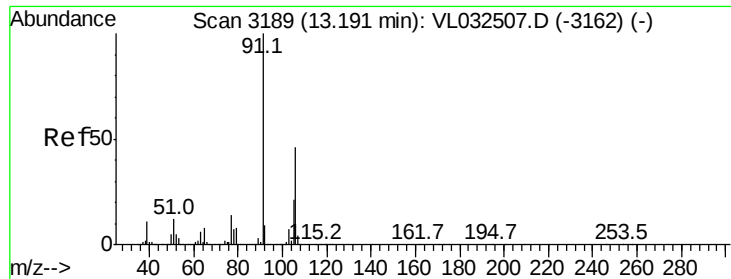
106 29.4 24.8 37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 7.844 ppbv

RT: 13.19 min Scan# 3189

Delta R.T. -0.02 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

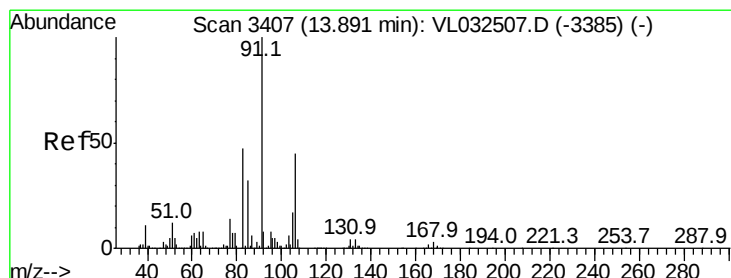
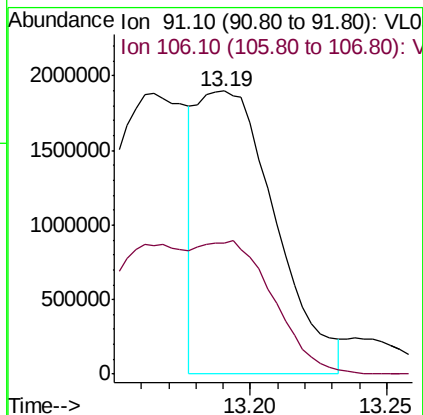
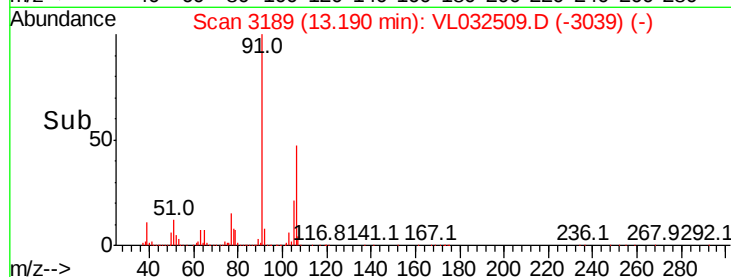
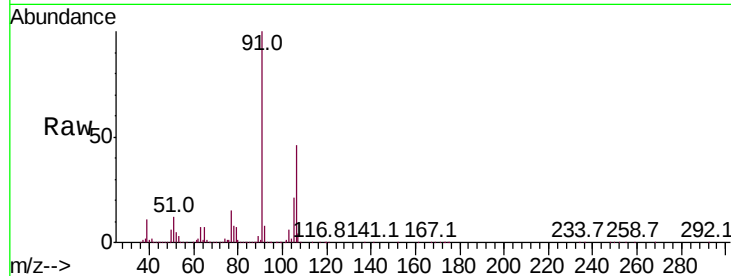
ClientSampleId :

Tot Ion: 91 Resp: 3755625

Ion Ratio Lower Upper

91 100

106 94.6 36.6 55.0#



#60

o-Xylene

Concen: 8.045 ppbv

RT: 13.89 min Scan# 3407

Delta R.T. -0.02 min

Lab File: VL032509.D

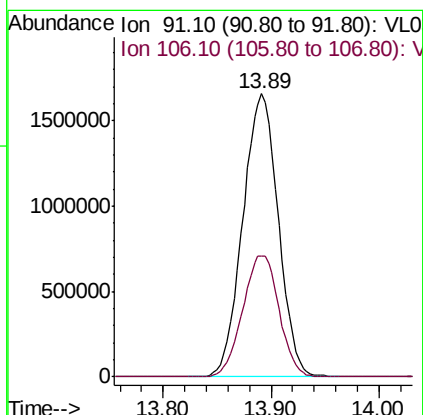
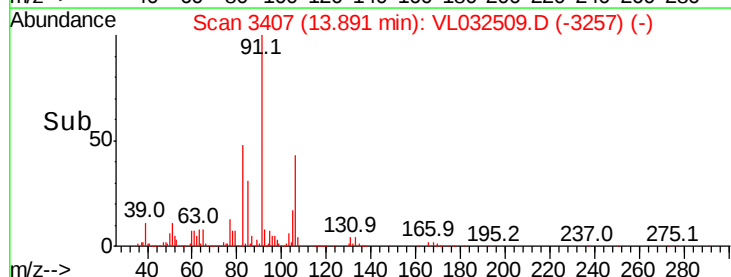
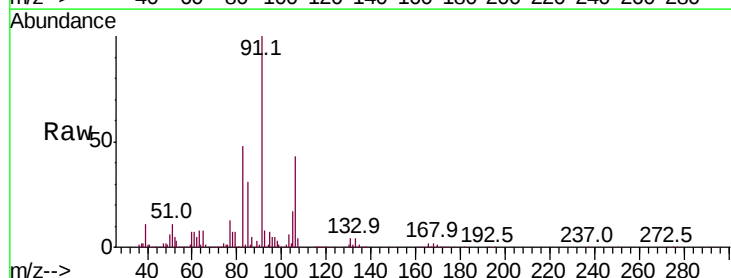
Acq: 20 Sep 2018 16:07

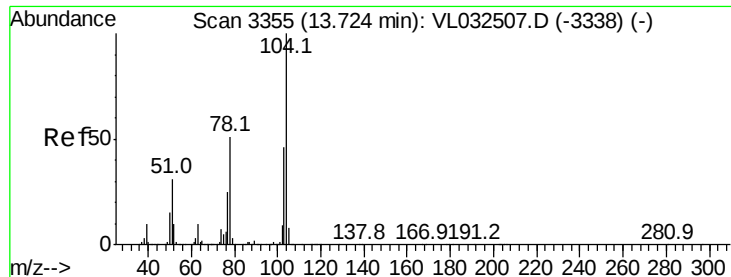
Tgt Ion: 91 Resp: 3783471

Ion Ratio Lower Upper

91 100

106 43.8 21.9 65.7





#61

Stvrene

Concen: 9.278 ppbv

RT: 13.73 min Scan# 3356

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

ClientSampleId :

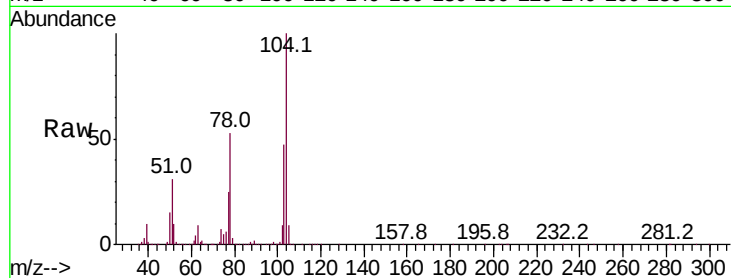
Tot Ion:104 Resp: 2824777

Ion	Ratio	Lower	Upper
104	100		
78	53.1	41.8	62.8
103	46.9	38.0	57.0

104 100

78 53.1 41.8 62.8

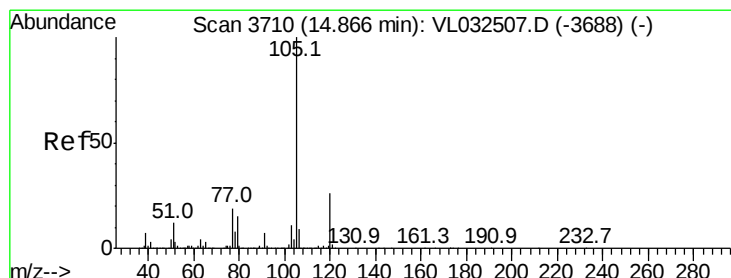
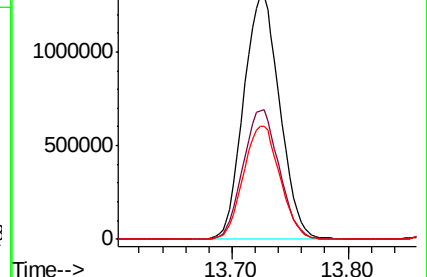
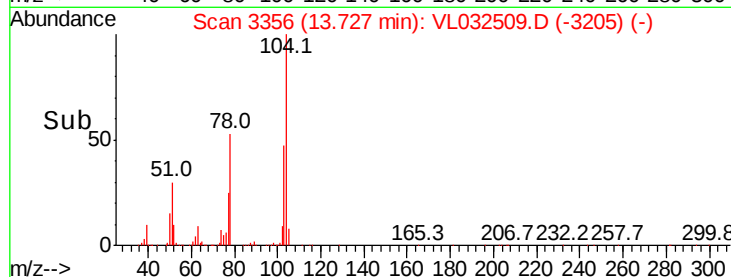
103 46.9 38.0 57.0



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: 8.122 ppbv

RT: 14.87 min Scan# 3711

Delta R.T. -0.02 min

Lab File: VL032509.D

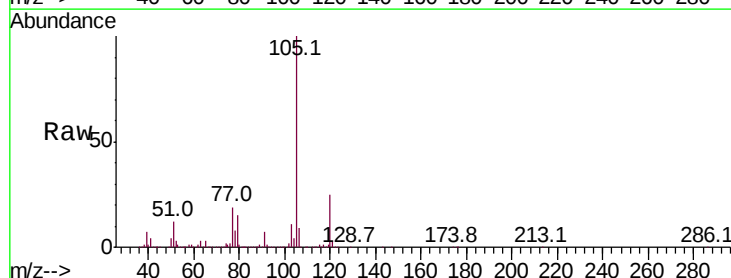
Acq: 20 Sep 2018 16:07

Tgt Ion:105 Resp: 5369694

Ion	Ratio	Lower	Upper
105	100		
120	25.4	20.6	31.0

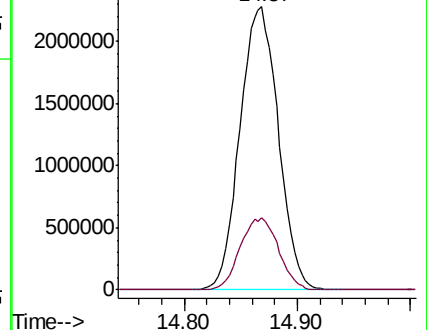
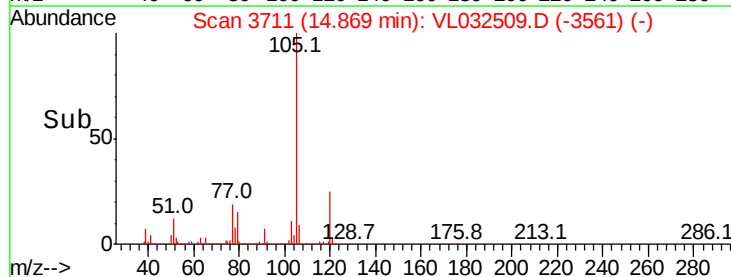
105 100

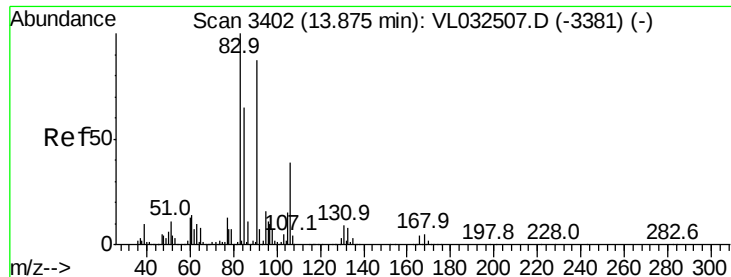
120 25.4 20.6 31.0



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: 6.747 ppbv

RT: 13.88 min Scan# 3403

Delta R.T. -0.02 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

ClientSampleId :

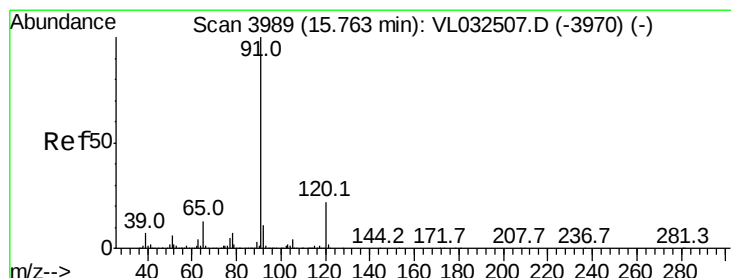
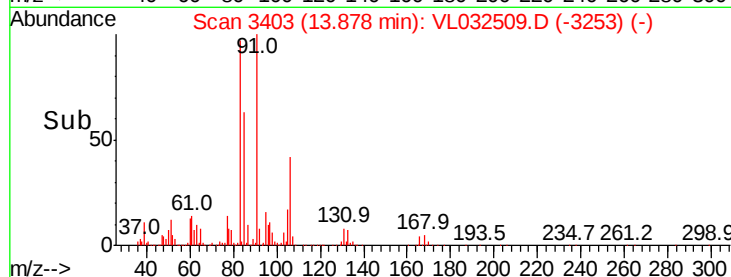
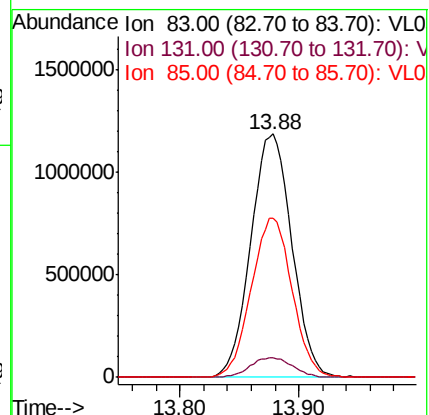
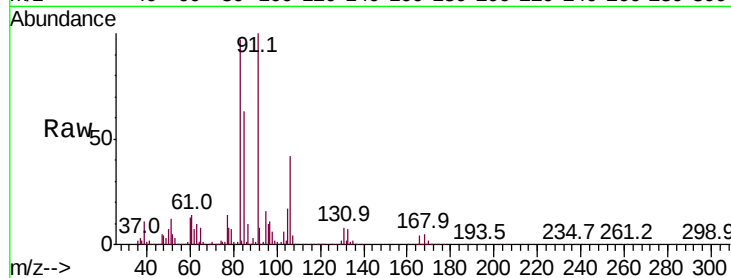
Tot Ion: 83 Resp: 2837169

Ion	Ratio	Lower	Upper
83	100		
131	8.4	4.3	12.8
85	65.3	32.3	96.8

83 100

131 8.4 4.3 12.8

85 65.3 32.3 96.8



#64

n-propylbenzene

Concen: 7.984 ppbv

RT: 15.76 min Scan# 3988

Delta R.T. -0.02 min

Lab File: VL032509.D

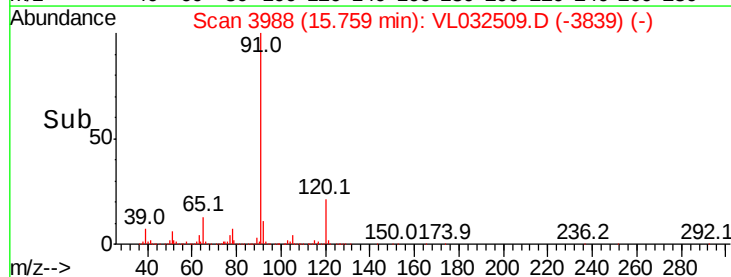
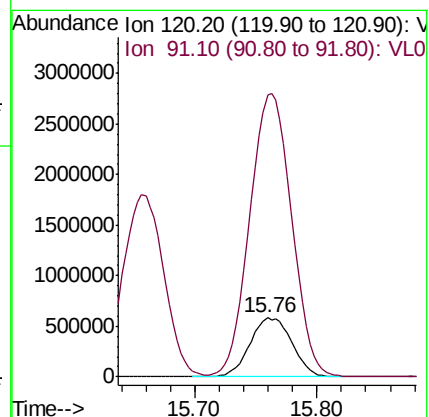
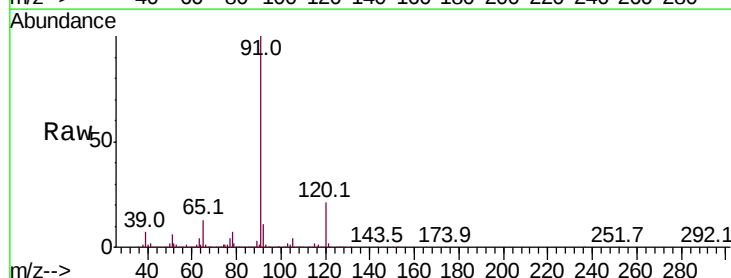
Acq: 20 Sep 2018 16:07

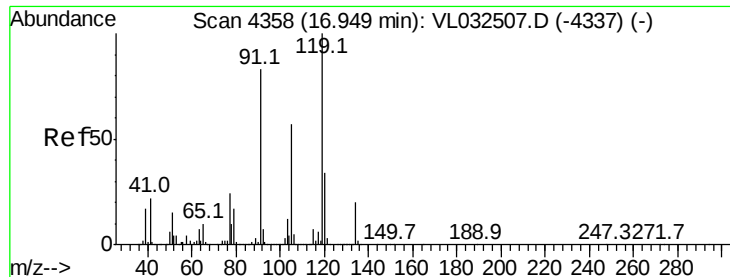
Tgt Ion:120 Resp: 1380041

Ion	Ratio	Lower	Upper
120	100		
91	482.6	381.8	572.6

120 100

91 482.6 381.8 572.6

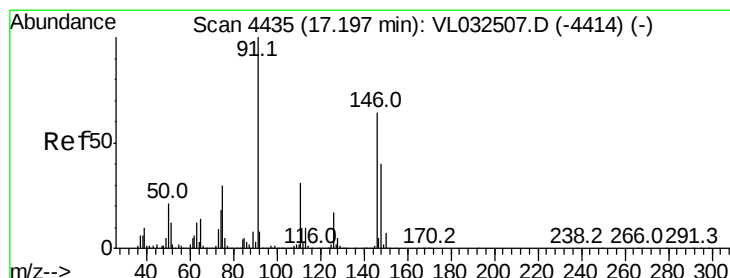
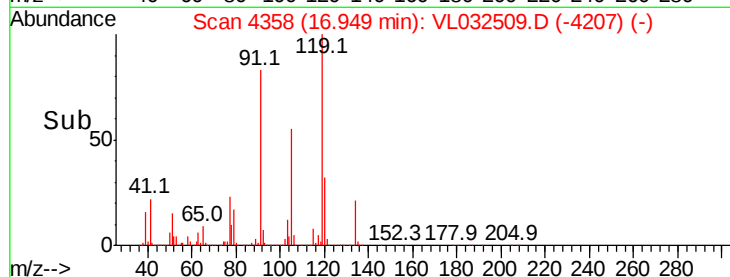
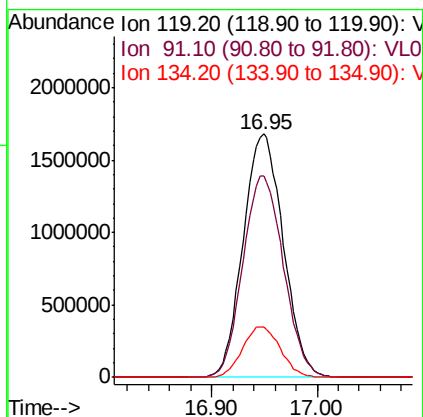
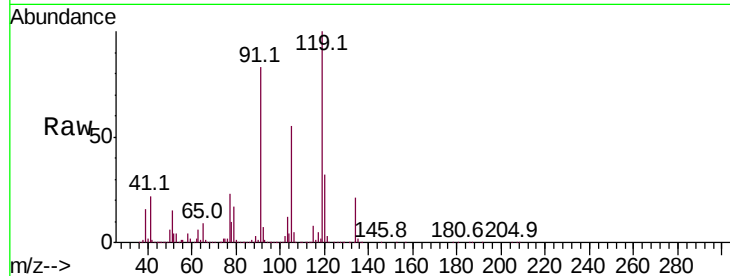




#65
tert-Butylbenzene
Concen: 7.801 ppbv
RT: 16.95 min Scan# 4358
Delta R.T. -0.01 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

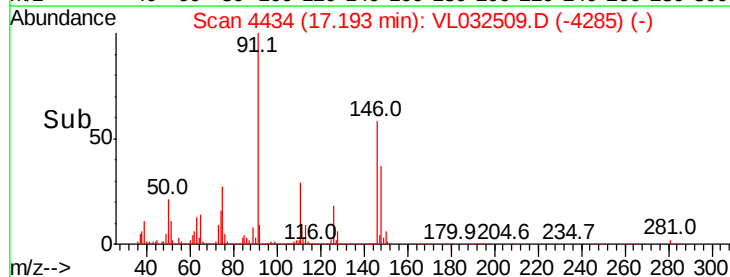
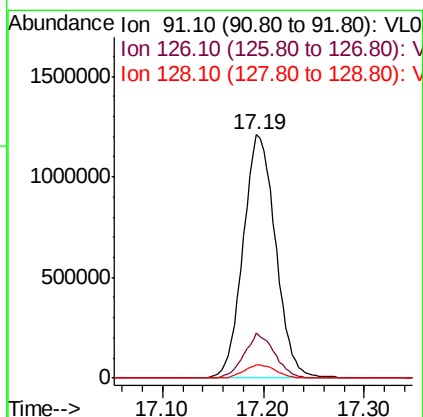
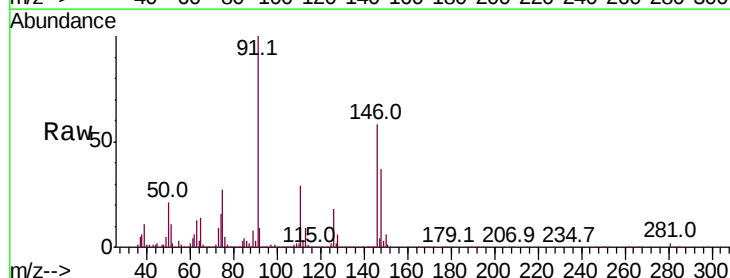
Instrument :
MSVOA_L
ClientSampled :

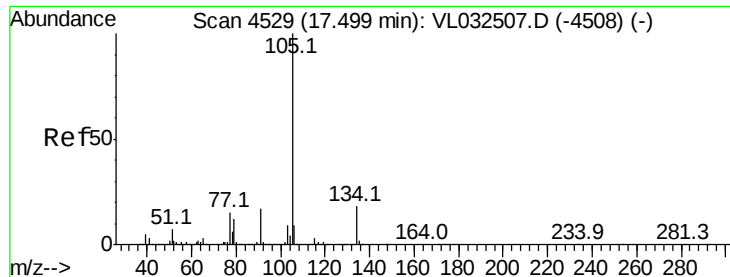
Tot Ion:119 Resp: 4444309
Ion Ratio Lower Upper
119 100
91 84.0 66.5 99.7
134 19.8 16.0 24.0



#66
Benzyl Chloride
Concen: 8.477 ppbv
RT: 17.19 min Scan# 4434
Delta R.T. -0.02 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Tgt Ion: 91 Resp: 2690505
Ion Ratio Lower Upper
91 100
126 17.4 13.8 20.8
128 5.5 4.4 6.6

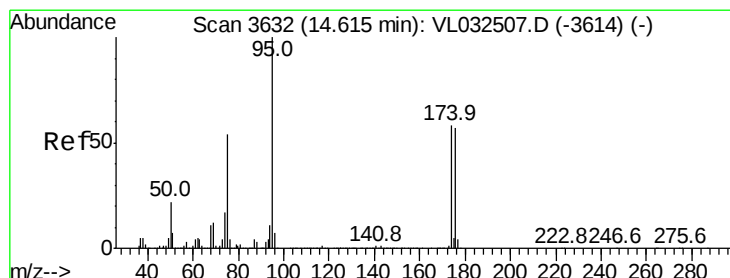
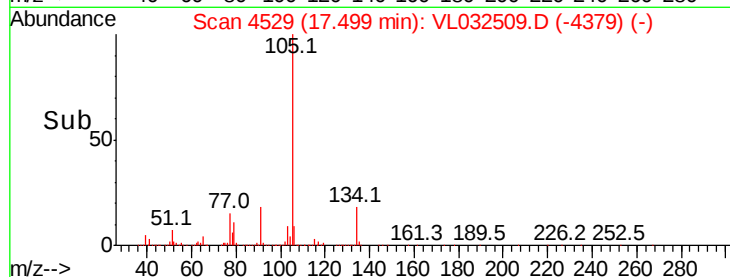
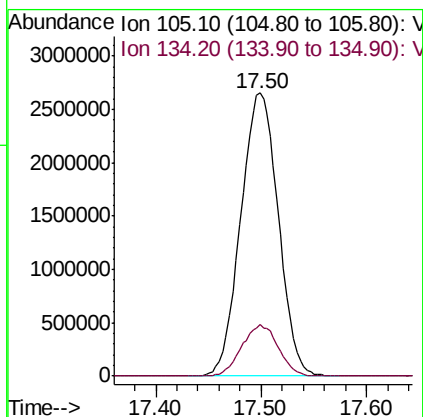
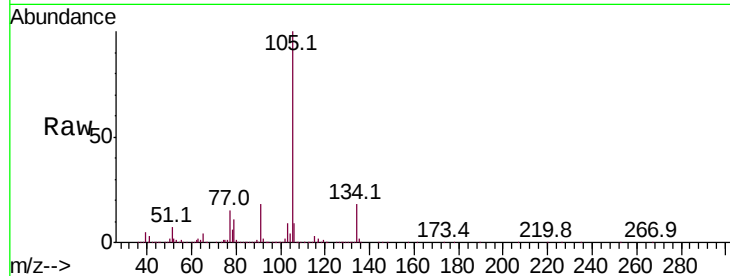




#67
 sec-Butylbenzene
 Concen: 7.663 ppbv
 RT: 17.50 min Scan# 4529
 Delta R.T. -0.02 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

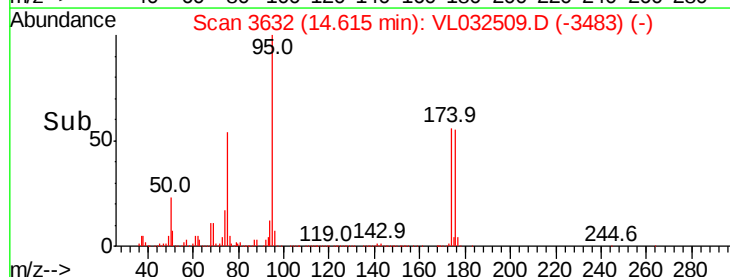
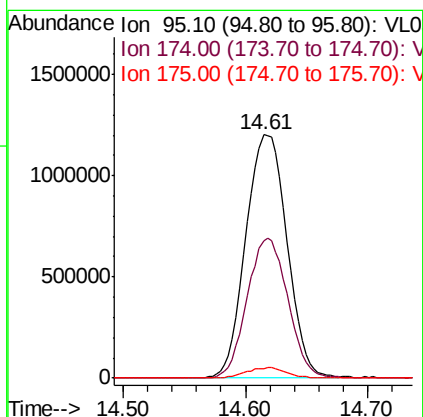
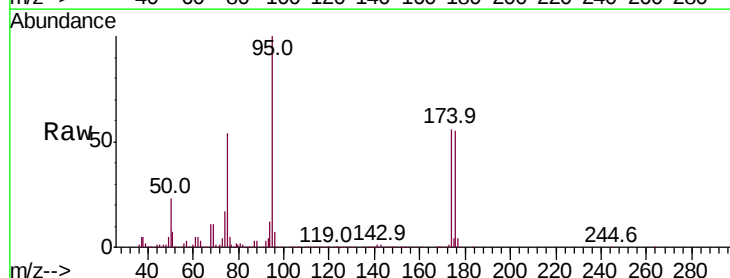
Instrument :
 MSVOA_L
 ClientSampled :

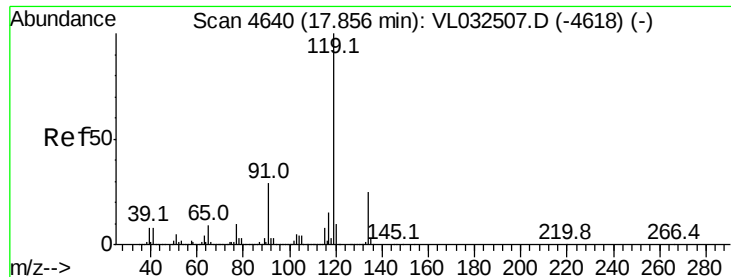
Tot Ion:105 Resp: 6565276
 Ion Ratio Lower Upper
 105 100
 134 17.7 14.4 21.6



#68
 1-Bromo-4-Fluorobenzene
 Concen: 8.457 ppbv
 RT: 14.61 min Scan# 3632
 Delta R.T. -0.02 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Tgt Ion: 95 Resp: 2817822
 Ion Ratio Lower Upper
 95 100
 174 57.0 46.3 69.5
 175 4.2 3.4 5.0

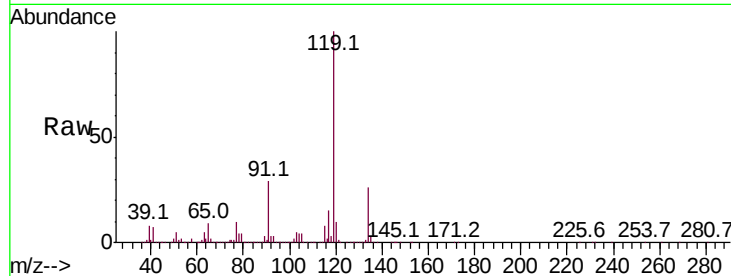




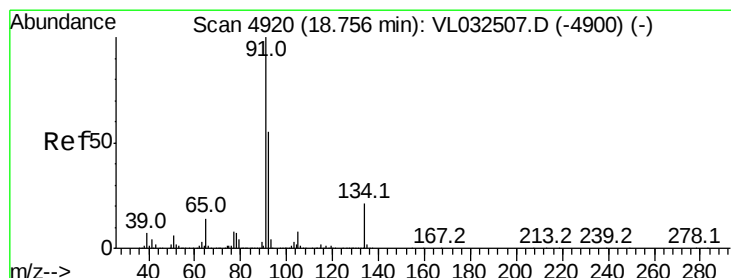
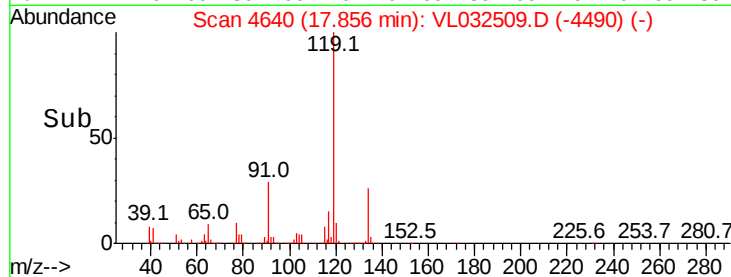
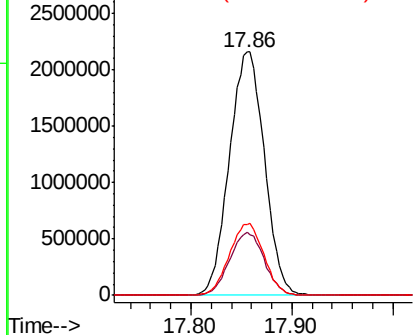
#69
 p-Isopropyltoluene
 Concen: 7.856 ppbv
 RT: 17.86 min Scan# 4640
 Delta R.T. -0.02 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion:119 Resp: 5216831
 Ion Ratio Lower Upper
 119 100
 134 25.6 20.4 30.6
 91 29.2 23.4 35.2

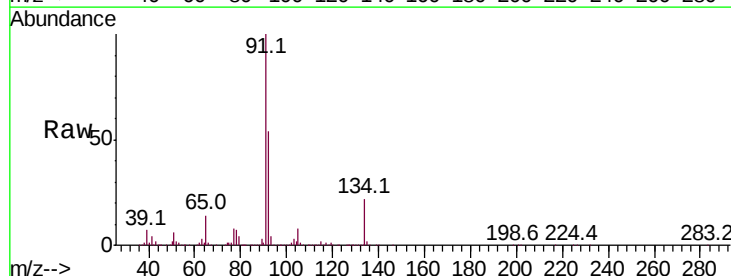


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

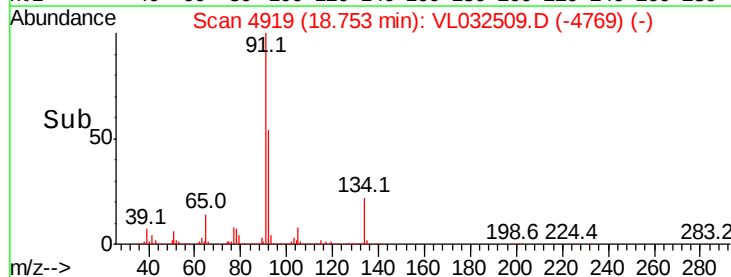
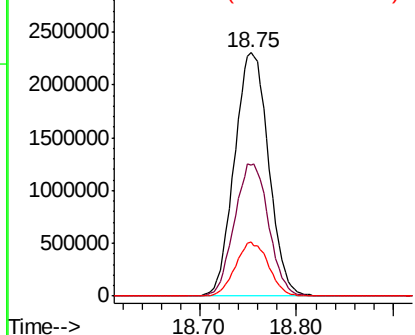


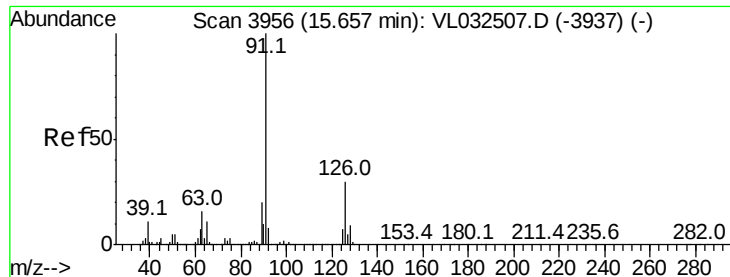
#70
 n-Butylbenzene
 Concen: 7.506 ppbv
 RT: 18.75 min Scan# 4919
 Delta R.T. -0.02 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Tgt Ion: 91 Resp: 5649958
 Ion Ratio Lower Upper
 91 100
 92 54.2 43.8 65.8
 134 21.4 17.4 26.0



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V

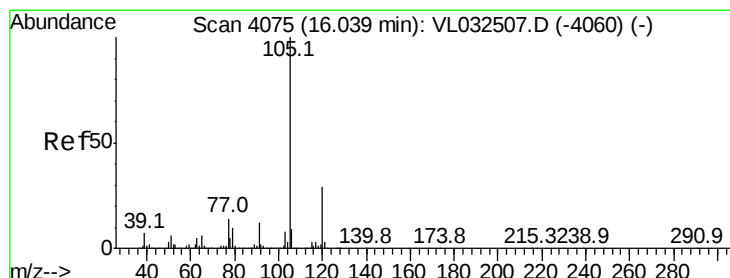
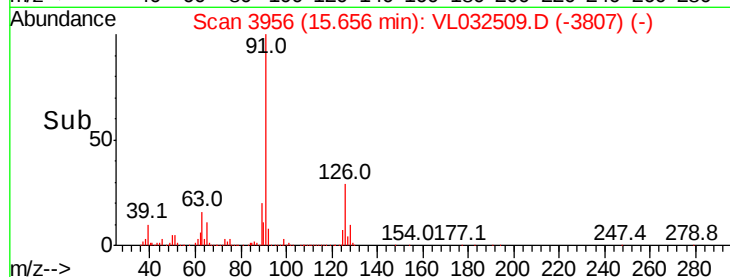
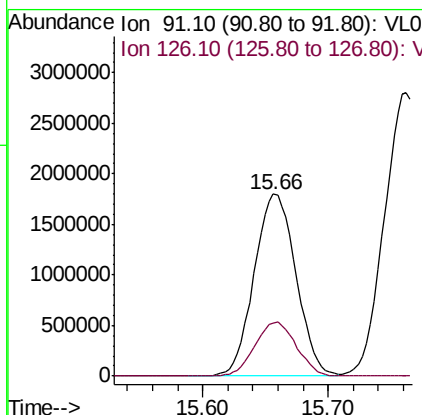
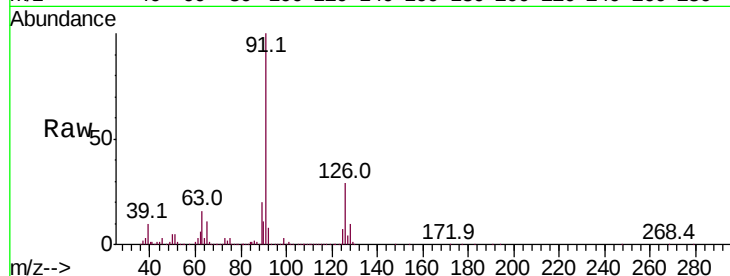




#71
2-Chlorotoluene
Concen: 8.272 ppbv
RT: 15.66 min Scan# 3956
Delta R.T. -0.02 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

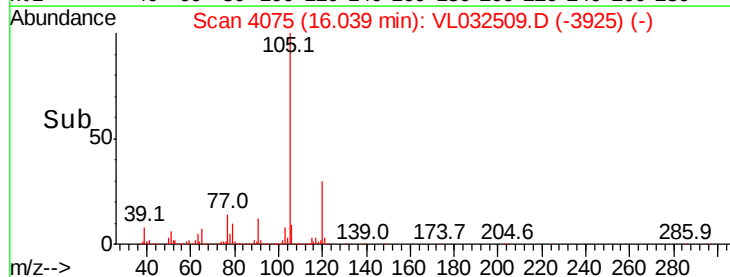
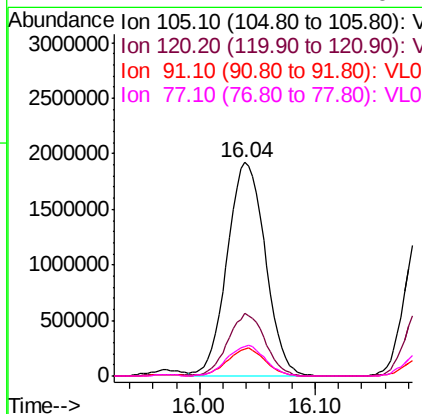
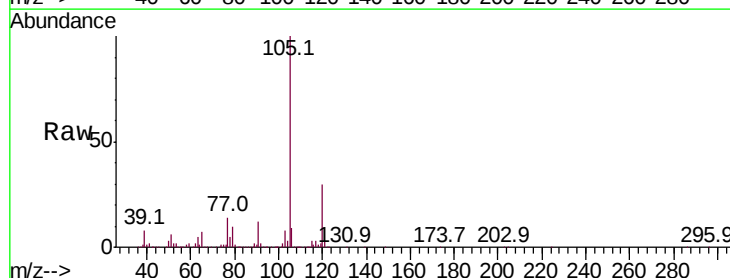
Instrument :
MSVOA_L
ClientSampleId :

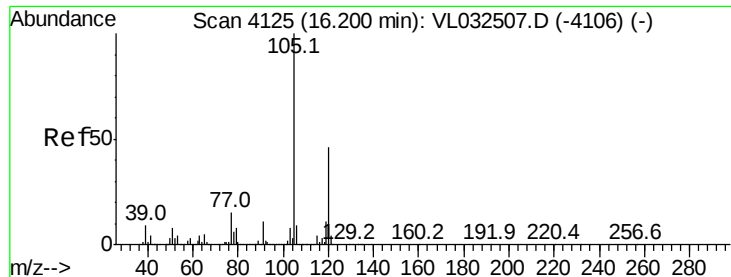
Tot Ion: 91 Resp: 4178220
Ion Ratio Lower Upper
91 100
126 29.5 11.9 47.7



#72
4-Ethyltoluene
Concen: 8.560 ppbv
RT: 16.04 min Scan# 4075
Delta R.T. -0.02 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Tgt Ion:105 Resp: 4395142
Ion Ratio Lower Upper
105 100
120 28.6 23.5 35.3
91 12.7 10.2 15.2
77 14.1 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 8.052 ppbv

RT: 16.20 min Scan# 4124

Delta R.T. -0.02 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

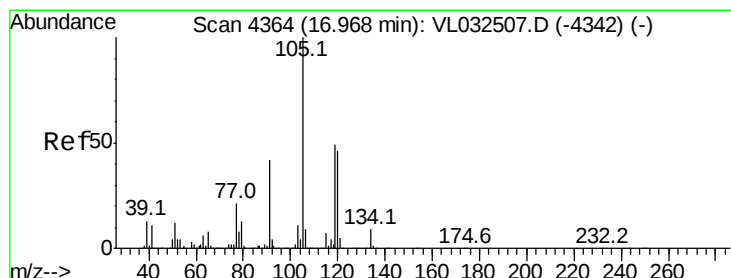
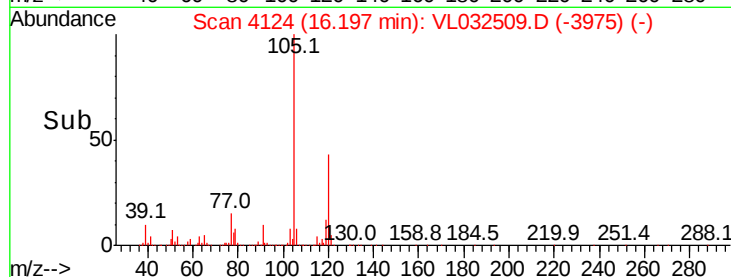
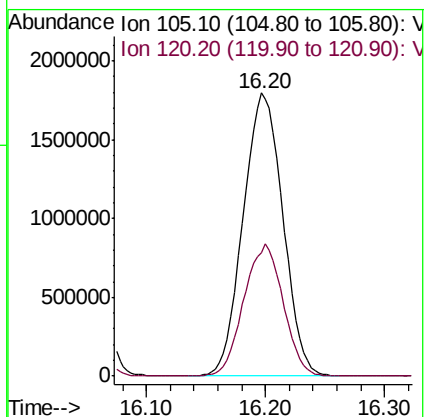
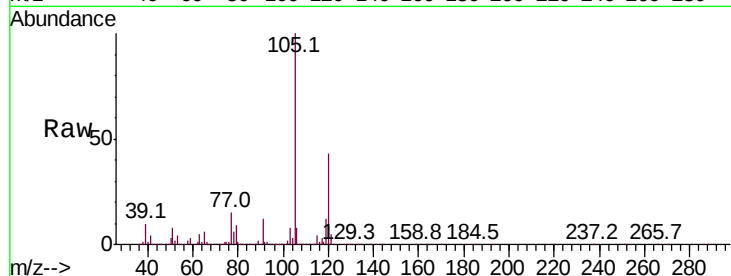
ClientSampleId :

Tot Ion:105 Resp: 4142536

Ion Ratio Lower Upper

105 100

120 43.5 37.9 56.9



#74

1,2,4-Trimethylbenzene

Concen: 7.345 ppbv

RT: 16.97 min Scan# 4364

Delta R.T. -0.01 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Tgt Ion:105 Resp: 4131130

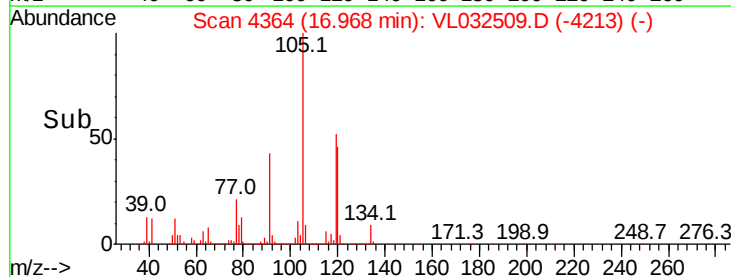
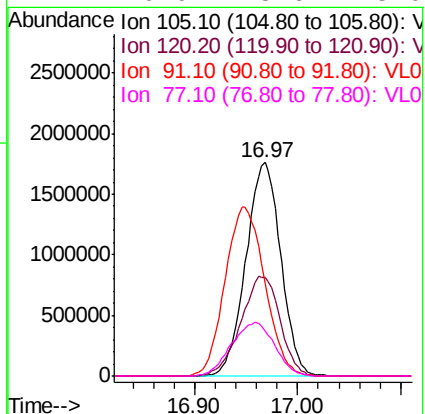
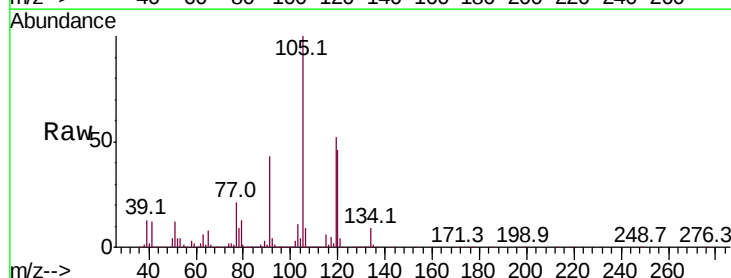
Ion Ratio Lower Upper

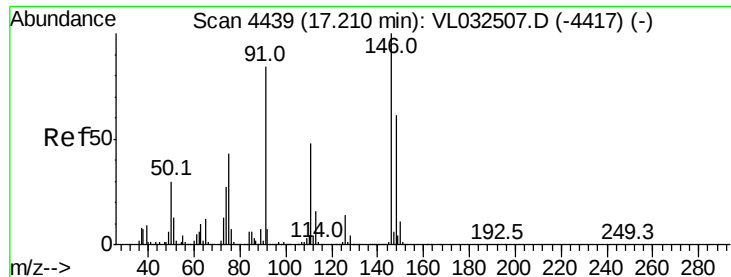
105 100

120 46.0 37.8 56.8

91 43.0 41.4 62.0

77 20.9 18.6 28.0





#75

1,3-Dichlorobenzene

Concen: 6.886 ppbv

RT: 17.21 min Scan# 4438

Delta R.T. -0.02 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

Instrument :

MSVOA_L

ClientSampleId :

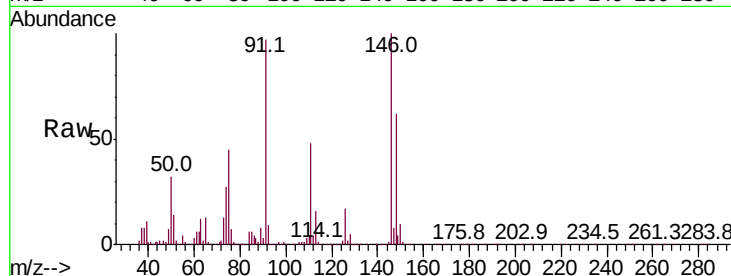
Tot Ion:146 Resp: 2297824

Ion Ratio Lower Upper

146 100

111 48.4 24.5 73.5

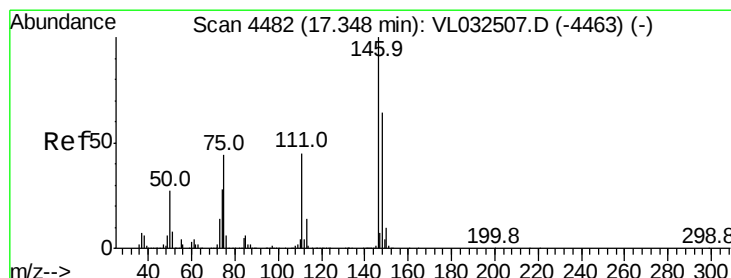
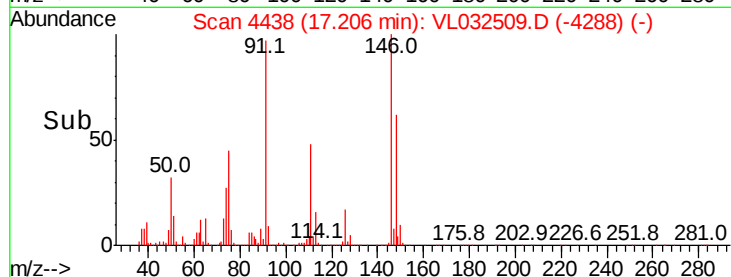
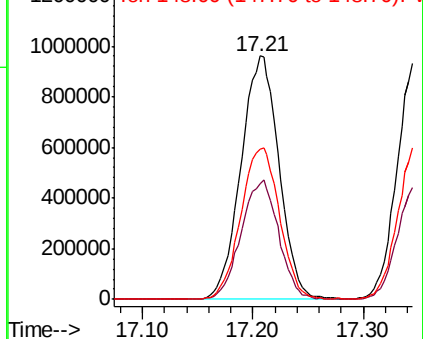
148 63.5 32.0 96.2



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: 7.288 ppbv

RT: 17.35 min Scan# 4482

Delta R.T. -0.02 min

Lab File: VL032509.D

Acq: 20 Sep 2018 16:07

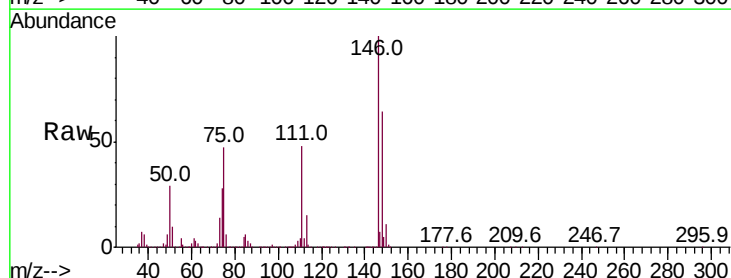
Tgt Ion:146 Resp: 2256495

Ion Ratio Lower Upper

146 100

111 47.0 23.4 70.2

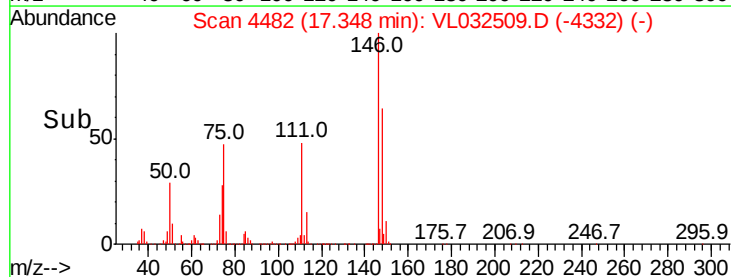
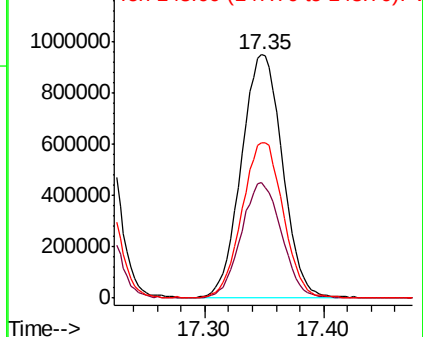
148 64.3 32.0 96.2

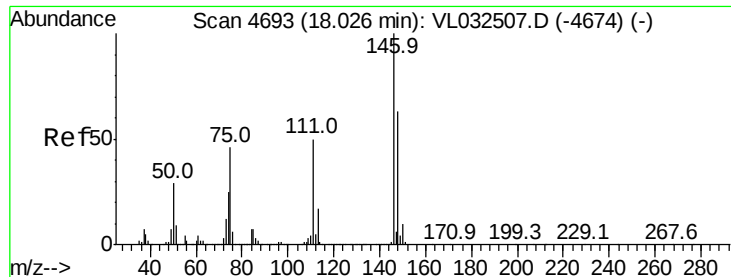


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

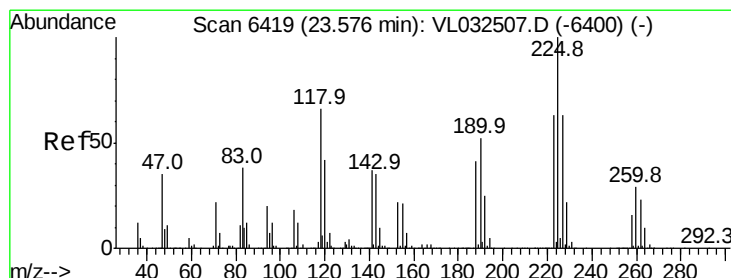
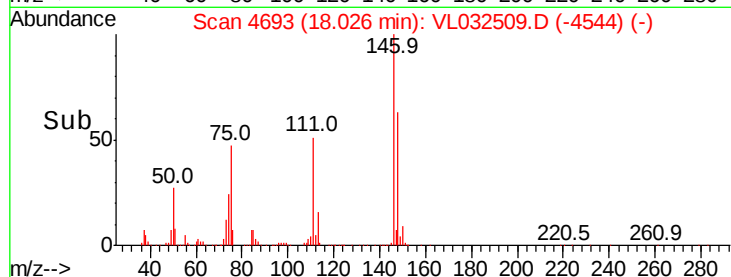
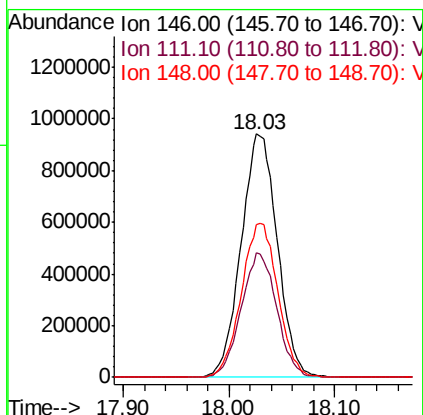
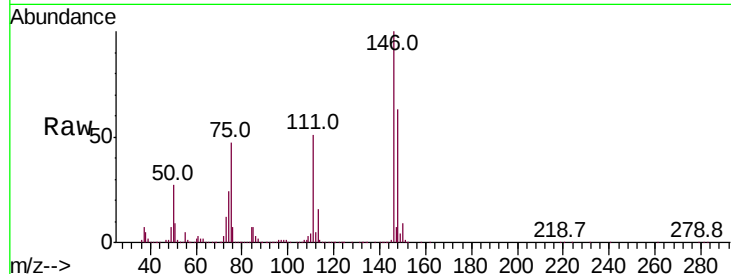




#77
 1,2-Dichlorobenzene
 Concen: 6.988 ppbv
 RT: 18.03 min Scan# 4693
 Delta R.T. -0.02 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

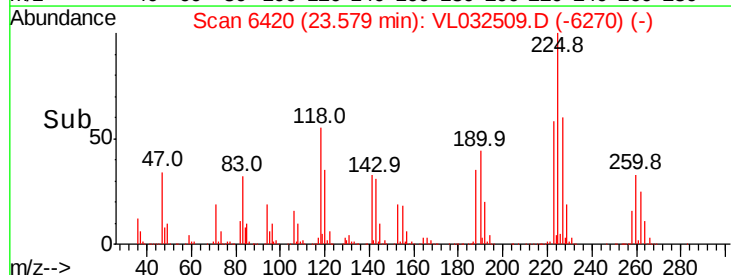
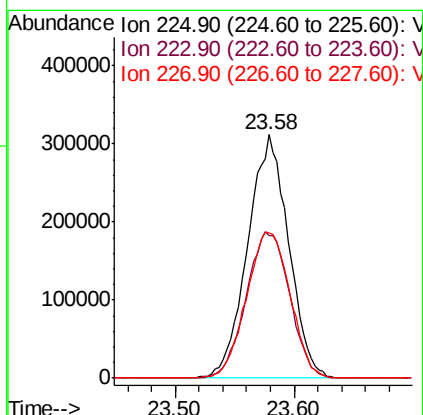
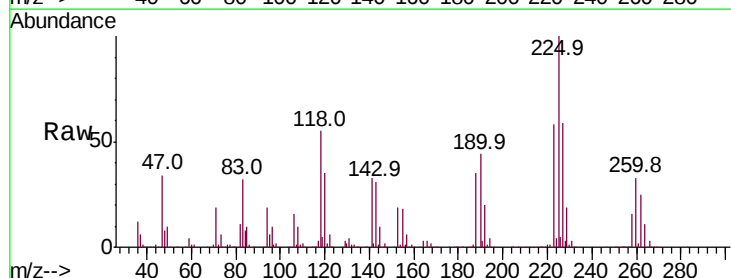
Instrument :
 MSVOA_L
 ClientSampleId :

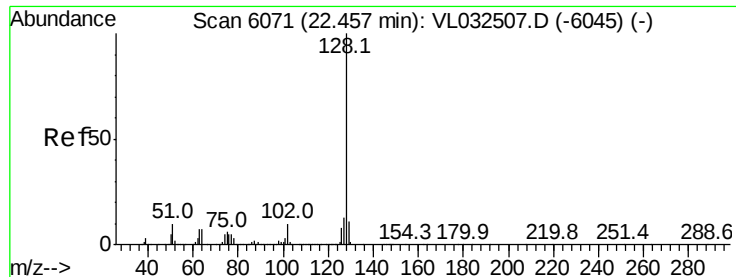
Tot Ion:146 Resp: 2250021
 Ion Ratio Lower Upper
 146 100
 111 50.3 24.9 74.8
 148 63.9 32.0 96.0



#78
 Hexachloro-1,3-Butadiene
 Concen: 6.151 ppbv
 RT: 23.58 min Scan# 6420
 Delta R.T. -0.02 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Tgt Ion:225 Resp: 739929
 Ion Ratio Lower Upper
 225 100
 223 63.8 50.6 76.0
 227 64.3 51.2 76.8

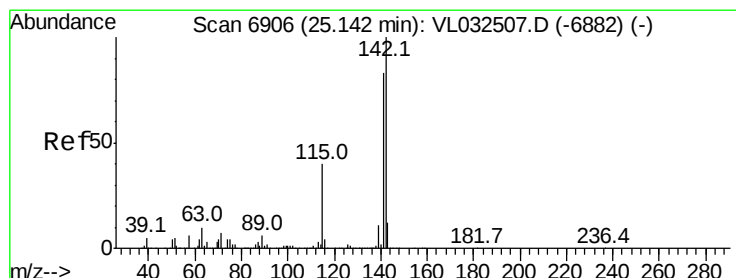
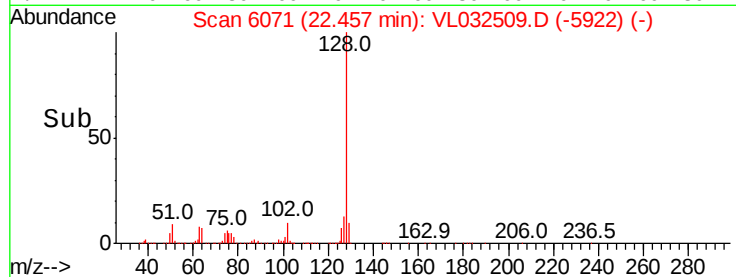
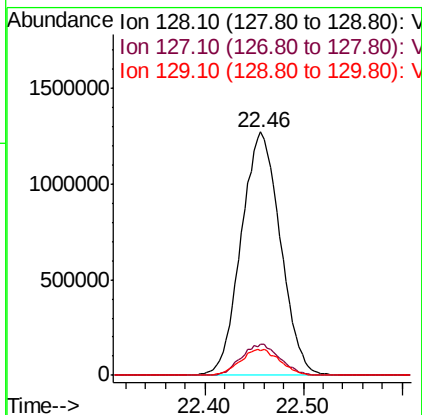
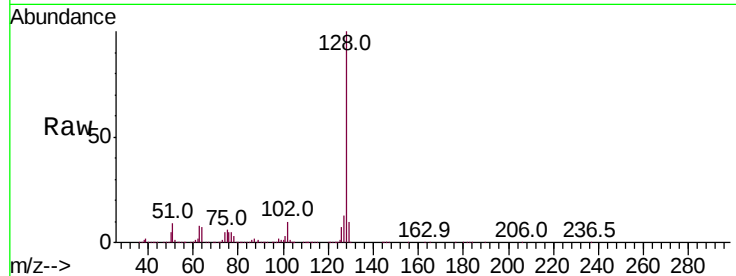




#79
Naphthalene
Concen: 7.626 ppbv
RT: 22.46 min Scan# 6071
Delta R.T. -0.02 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

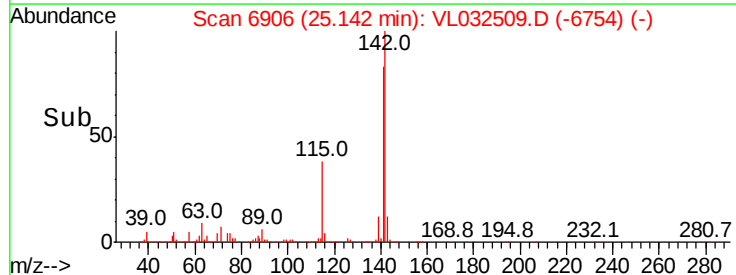
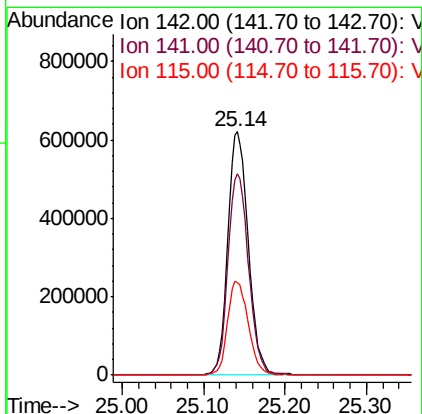
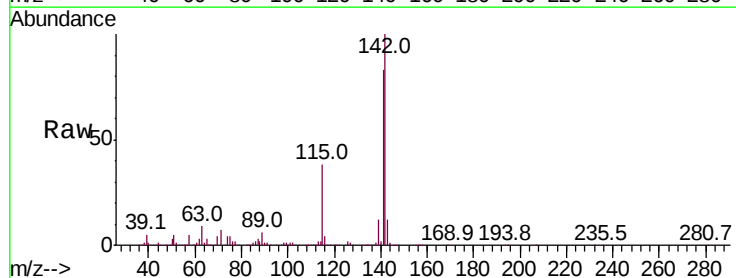
Instrument :
MSVOA_L
ClientSampleId :

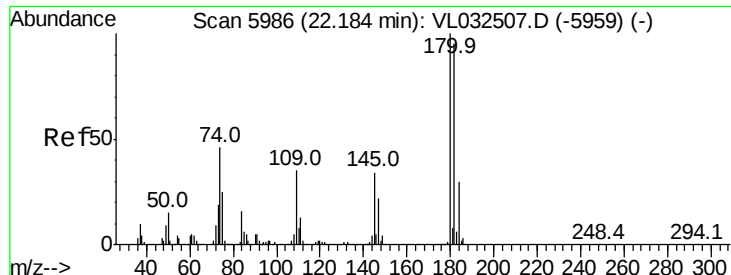
Tot Ion:128 Resp: 3487659
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.2
129 10.4 8.5 12.7



#80
Naphthalene, 2-methyl-
Concen: 9.073 ppbv
RT: 25.14 min Scan# 6906
Delta R.T. -0.01 min
Lab File: VL032509.D
Acq: 20 Sep 2018 16:07

Tgt Ion:142 Resp: 1104116
Ion Ratio Lower Upper
142 100
141 84.0 67.0 100.6
115 39.1 31.3 46.9

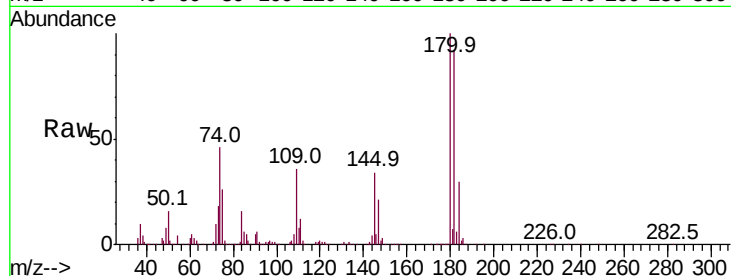




#81
 1,2,4-Trichlorobenzene
 Concen: 7.207 ppbv
 RT: 22.18 min Scan# 5985
 Delta R.T. -0.02 min
 Lab File: VL032509.D
 Acq: 20 Sep 2018 16:07

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.1	114.1
184	30.5	23.8	35.8



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

