

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082018\
 Data File : VL032406.D
 Acq On : 20 Aug 2018 14:05
 Operator : SY/AP
 Sample : VSTDCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 21 01:41:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 15 14:58:02 2018
 QLast Update : Wed Aug 15 14:58:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.81	49	1868128	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	3638959	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.30	117	4601047	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.64	95	2854018	8.13	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	81.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.11	85	1541303	10.298	ppbv 97
3) Chlorodifluoromethane	3.04	51	1650408	9.537	ppbv 100
4) Chloromethane	3.20	50	1004044	9.749	ppbv 99
5) Vinyl Chloride	3.32	62	961903	9.798	ppbv 95
6) Bromomethane	3.55	94	541922	10.296	ppbv 97
7) Chloroethane	3.64	64	350738	10.188	ppbv 99
8) Dichlorotetrafluoroethane	3.25	85	2007917	9.512	ppbv 98
9) Propene	3.07	41	772729	10.433	ppbv 100
10) Heptane	8.30	43	2440537	10.941	ppbv 100
11) Trichlorofluoromethane	4.04	101	1991648	9.532	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.59	101	1349863	9.594	ppbv 98
13) Ethanol	3.68	45	209700	11.024	ppbv 97
14) Bromoethene	3.83	108	623821	10.252	ppbv 99
15) Acetone	3.94	43	1563871	8.811	ppbv 100
16) 1,3-Butadiene	3.40	39	784128	10.700	ppbv 90
17) tert-Butyl alcohol	4.40	59	302618	10.161	ppbv 99
18) 1,1-Dichloroethene	4.39	96	654683	9.987	ppbv 96
19) Isopropyl Alcohol	4.06	45	1234513	10.329	ppbv 100
20) Methylene Chloride	4.45	84	572903	8.546	ppbv 92
21) Allyl Chloride	4.52	41	1175722	10.495	ppbv 100
22) trans-1,2-Dichloroethene	5.01	96	631648	9.555	ppbv 99
23) Vinyl Acetate	5.20	43	2907176	9.485	ppbv 99
24) 1,1-Dichloroethane	5.13	63	2023698	9.145	ppbv 99
25) Ethyl Acetate	5.82	43	3939986	10.358	ppbv 99
26) Hexane	5.83	57	1822405	10.747	ppbv 99
27) Carbon Disulfide	4.66	76	1703337	10.762	ppbv 99
28) Methyl tert-Butyl Ether	5.16	73	2221261	9.871	ppbv 99
29) Chloroform	5.90	83	2641078	10.628	ppbv 98
30) Cyclohexane	7.30	84	1369688	10.604	ppbv 99
31) cis-1,2-Dichloroethene	5.69	61	1670416	10.069	ppbv 100
32) 1,1,1-Trichloroethane	6.67	97	2471513	10.220	ppbv 99
34) 2-Butanone	5.38	43	2552720	10.307	ppbv 99
35) Carbon Tetrachloride	7.19	117	2332130	10.869	ppbv 96
36) Benzene	7.06	78	3551679	11.512	ppbv 100
37) 1,2-Dichloroethane	6.47	62	1971177	10.531	ppbv 99
38) Trichloroethene	8.02	130	1211696	11.198	ppbv 97
39) 1,2-Dichloropropane	7.79	63	1420087	11.019	ppbv 97
40) 1,4-Dioxane	8.01	88	437966	11.188	ppbv # 1
41) Tetrahydrofuran	6.20	42	1527692	11.490	ppbv 100
42) Bromodichloromethane	7.97	83	2708188	11.050	ppbv 98
43) Methyl Methacrylate	8.19	69	1457772	11.859	ppbv 98

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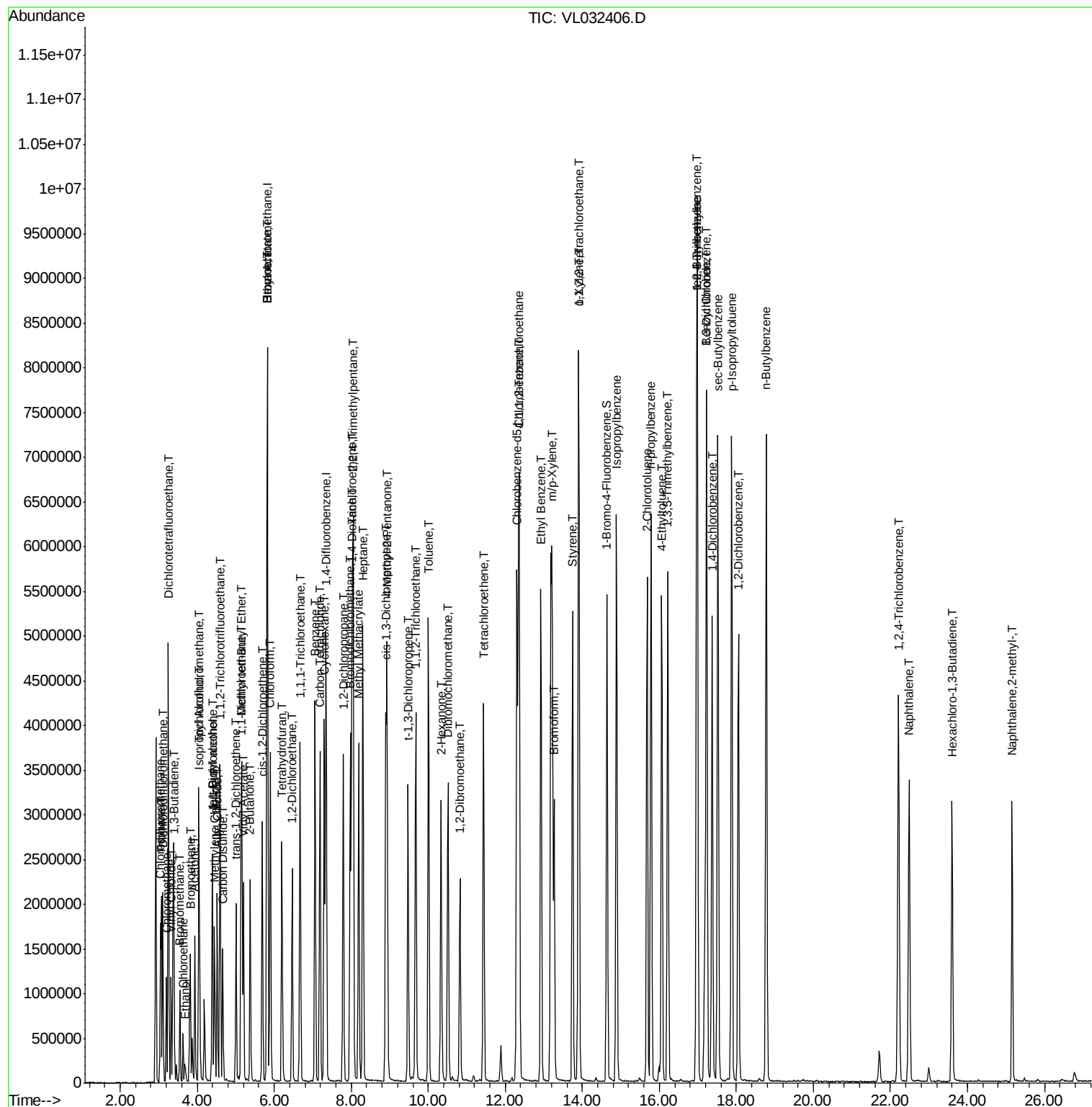
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.05	57	6181511	11.112	ppbv	100
45) t-1,3-Dichloropropene	9.48	75	2001997	12.876	ppbv	100
46) cis-1,3-Dichloropropene	8.89	75	2374493	12.735	ppbv	99
47) 1,1,2-Trichloroethane	9.67	97	1488501	10.494	ppbv	98
48) Dibromochloromethane	10.51	129	2129430	11.230	ppbv	99
49) Bromoform	13.27	173	1837500	11.666	ppbv	99
50) 4-Methyl-2-Pentanone	8.93	43	4082867	11.415	ppbv	100
51) 2-Hexanone	10.33	43	2960672	11.787	ppbv #	99
52) Tetrachloroethene	11.44	164	1047325	11.511	ppbv	95
53) Toluene	10.01	91	4104856	12.138	ppbv	99
54) 1,2-Dibromoethane	10.82	107	1963610	10.778	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.34	131	1567435	8.235	ppbv #	57
57) Chlorobenzene	12.36	112	2812025	8.119	ppbv	98
58) Ethyl Benzene	12.93	91	5151038	9.305	ppbv	99
59) m/p-Xylene	13.21	91	4186249	8.902	ppbv #	30
60) o-Xylene	13.91	91	4039294	8.739	ppbv	100
61) Styrene	13.75	104	3138658	9.716	ppbv	100
62) Isopropylbenzene	14.89	105	5738175	8.722	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.90	83	3063219	7.882	ppbv	100
64) n-propylbenzene	15.78	120	1520901	8.932	ppbv	98
65) tert-Butylbenzene	16.97	119	4781469	8.508	ppbv	100
66) Benzyl Chloride	17.22	91	3245999	9.755	ppbv	99
67) sec-Butylbenzene	17.52	105	7364983	8.813	ppbv	100
69) p-Isopropyltoluene	17.88	119	5897929	9.221	ppbv	100
70) n-Butylbenzene	18.78	91	6419008	9.154	ppbv	99
71) 2-Chlorotoluene	15.68	91	4605905	9.045	ppbv	100
72) 4-Ethyltoluene	16.06	105	4802544	9.316	ppbv	99
73) 1,3,5-Trimethylbenzene	16.22	105	4579007	9.235	ppbv	100
74) 1,2,4-Trimethylbenzene	16.99	105	4509088	8.546	ppbv	99
75) 1,3-Dichlorobenzene	17.23	146	2589022	8.166	ppbv	100
76) 1,4-Dichlorobenzene	17.37	146	2623228	8.734	ppbv	100
77) 1,2-Dichlorobenzene	18.05	146	2607072	8.605	ppbv	99
78) Hexachloro-1,3-Butadiene	23.60	225	784132	7.711	ppbv	99
79) Naphthalene	22.49	128	4270226	8.698	ppbv	99
80) Naphthalene, 2-methyl-	25.16	142	1700044	16.150	ppbv	99
81) 1,2,4-Trichlorobenzene	22.21	180	2051008	10.053	ppbv	100

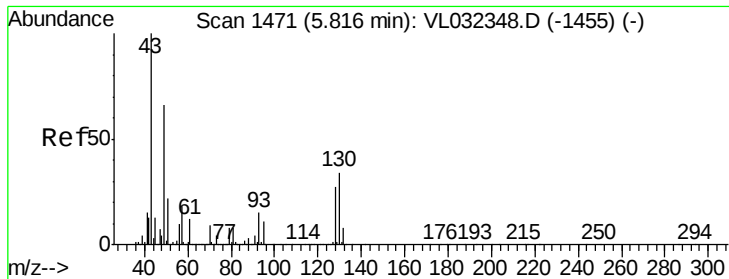
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.81 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

ClientSampleId :

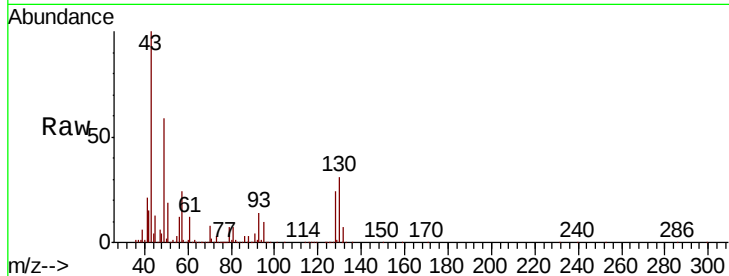
Tot Ion: 49 Resp: 1868128

Ion Ratio Lower Upper

49 100

128 40.9 20.5 61.6

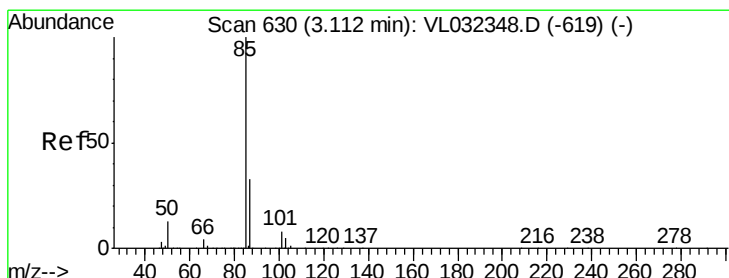
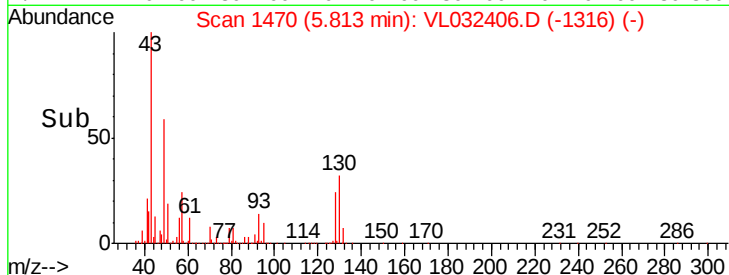
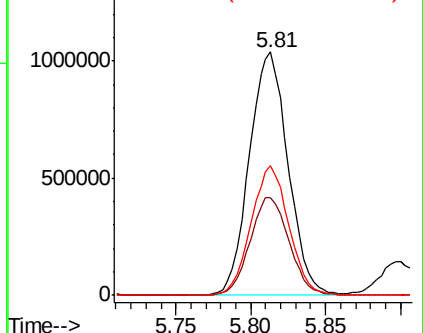
130 52.5 26.2 78.5



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: 10.298 ppbv

RT: 3.11 min Scan# 629

Delta R.T. -0.00 min

Lab File: VL032406.D

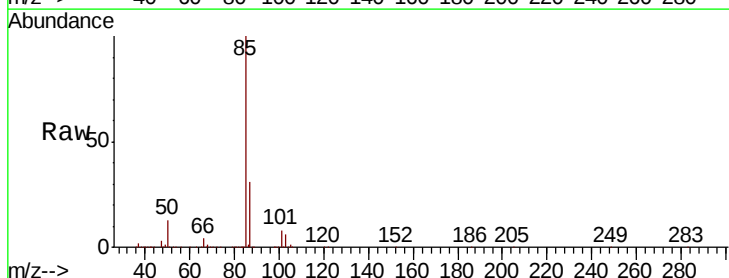
Acq: 20 Aug 2018 14:05

Tgt Ion: 85 Resp: 1541303

Ion Ratio Lower Upper

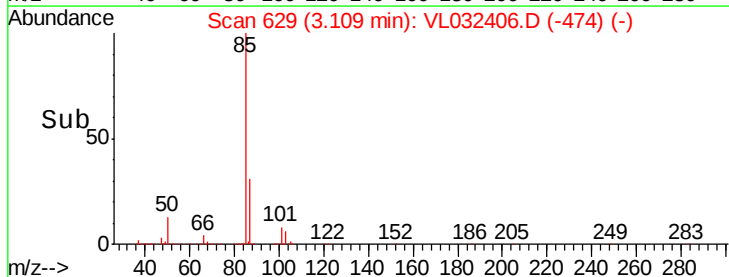
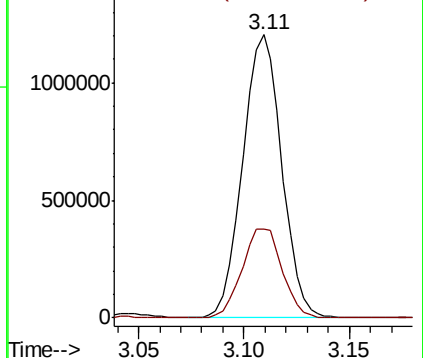
85 100

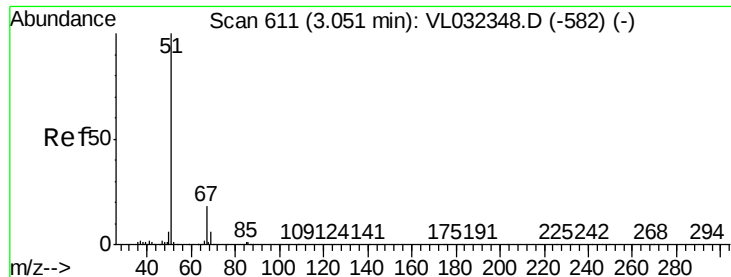
87 31.4 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

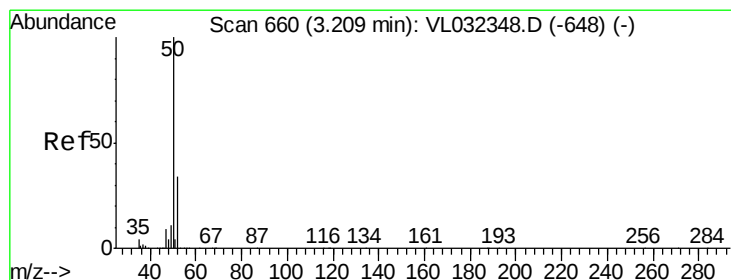
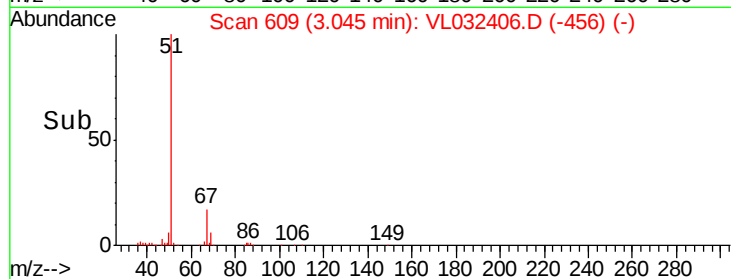
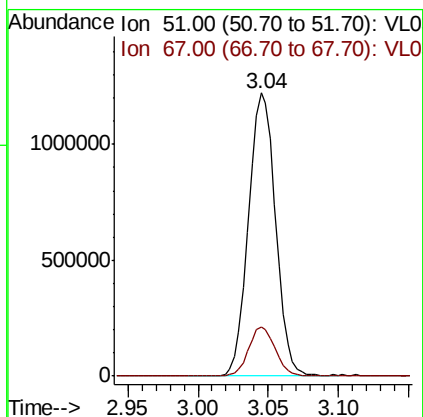
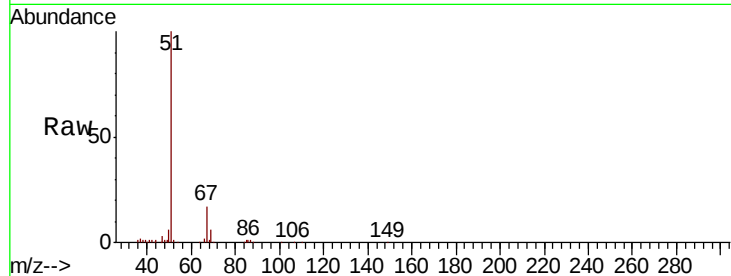




#3
 Chlorodifluoromethane
 Concen: 9.537 ppbv
 RT: 3.04 min Scan# 609
 Delta R.T. -0.01 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

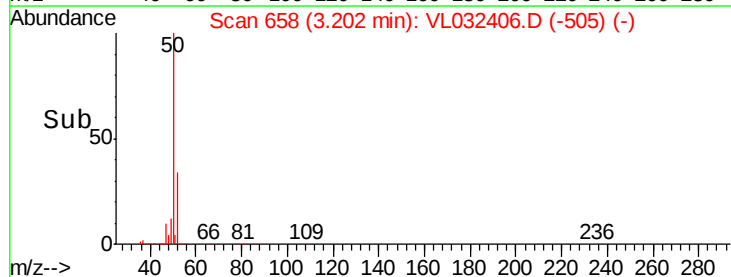
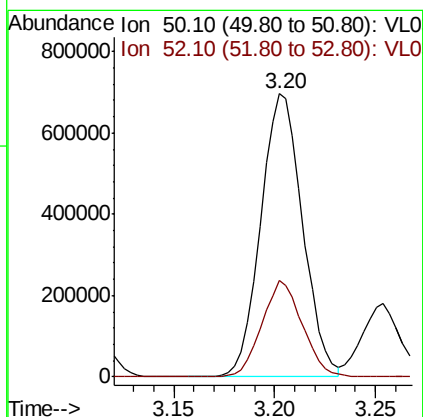
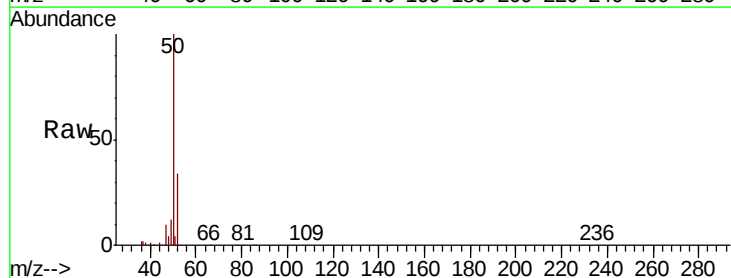
Instrument :
 MSVOA_L
 ClientSampleId :

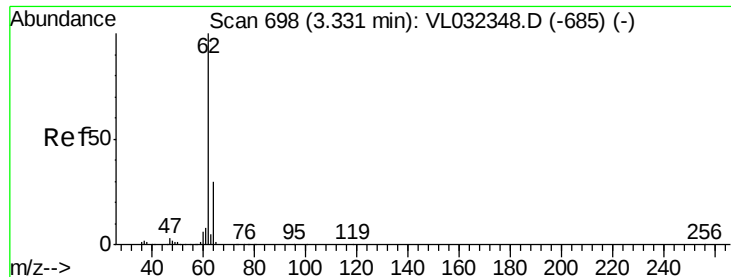
Tot Ion: 51 Resp: 1650408
 Ion Ratio Lower Upper
 51 100
 67 17.0 13.7 20.5



#4
 Chloromethane
 Concen: 9.749 ppbv
 RT: 3.20 min Scan# 658
 Delta R.T. -0.01 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

Tgt Ion: 50 Resp: 1004044
 Ion Ratio Lower Upper
 50 100
 52 34.0 26.8 40.2





#5

Vinyl Chloride

Concen: 9.798 ppbv

RT: 3.32 min Scan# 696

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

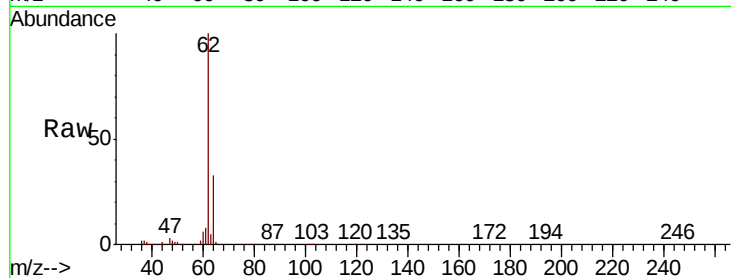
ClientSampleId :

Tot Ion: 62 Resp: 961903

Ion Ratio Lower Upper

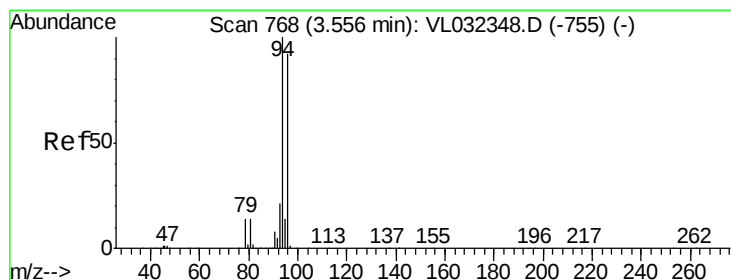
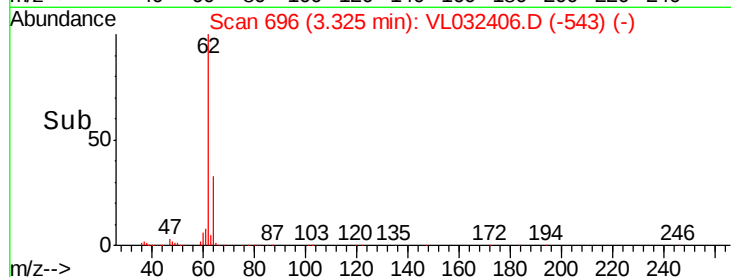
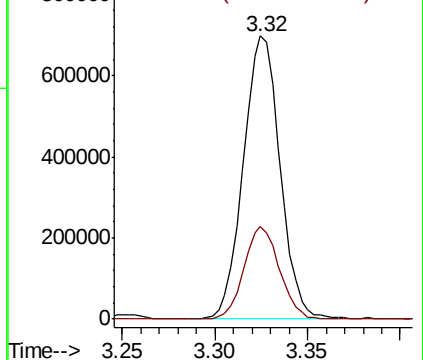
62 100

64 32.7 24.2 36.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.296 ppbv

RT: 3.55 min Scan# 766

Delta R.T. -0.01 min

Lab File: VL032406.D

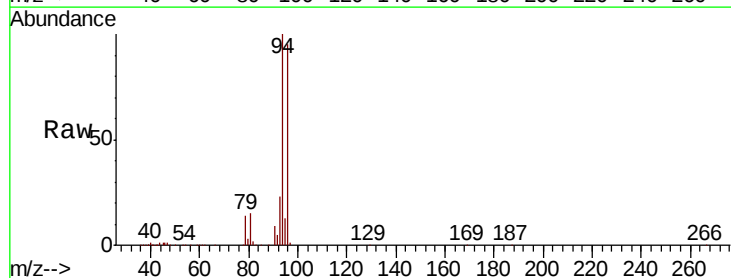
Acq: 20 Aug 2018 14:05

Tgt Ion: 94 Resp: 541922

Ion Ratio Lower Upper

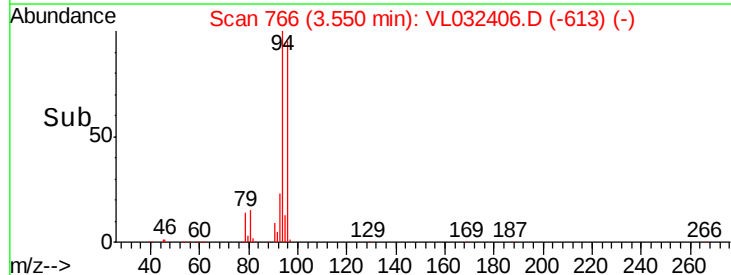
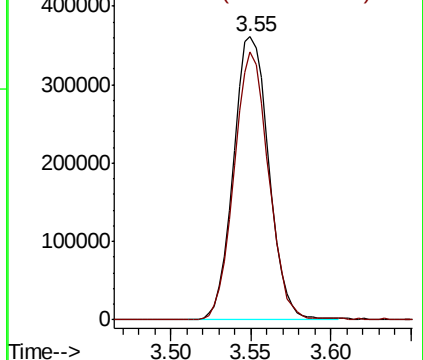
94 100

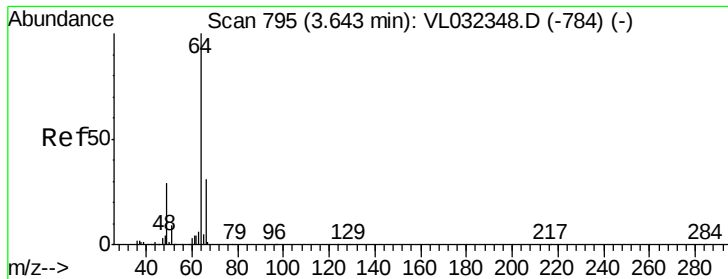
96 94.6 73.7 110.5



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.188 ppbv

RT: 3.64 min Scan# 793

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

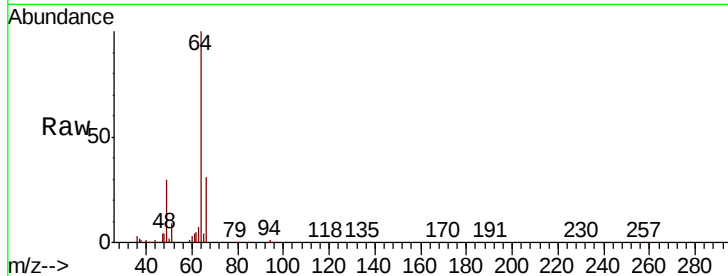
ClientSampleId :

Tot Ion: 64 Resp: 350738

Ion Ratio Lower Upper

64 100

66 31.2 24.6 36.8



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.64

250000

200000

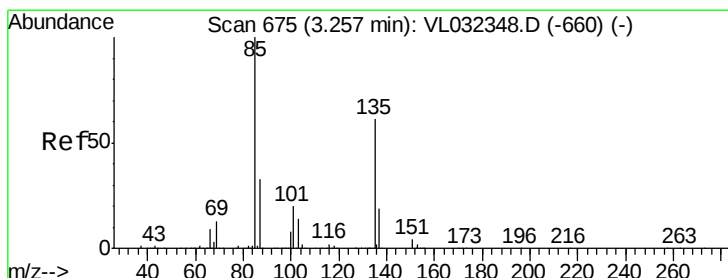
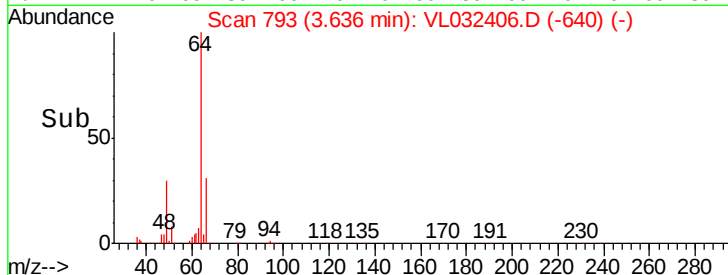
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.512 ppbv

RT: 3.25 min Scan# 674

Delta R.T. -0.00 min

Lab File: VL032406.D

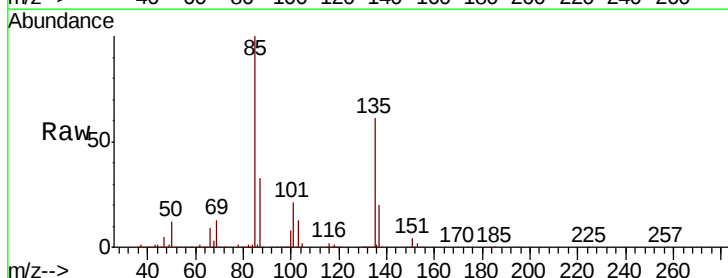
Acq: 20 Aug 2018 14:05

Tgt Ion: 85 Resp: 2007917

Ion Ratio Lower Upper

85 100

135 60.0 49.0 73.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.25

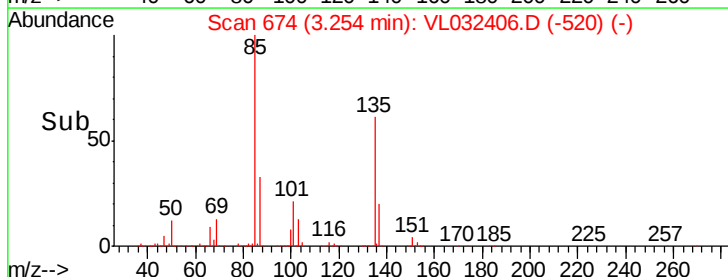
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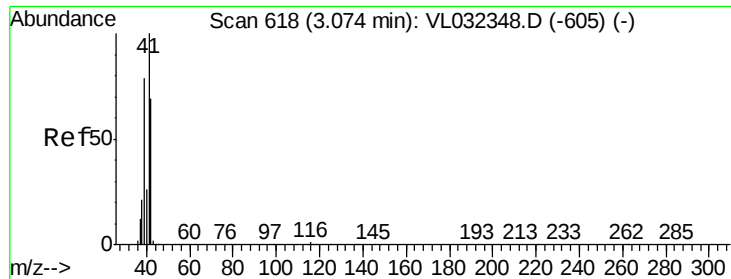
1000000

500000

0

Time-->





#9

Propene

Concen: 10.433 ppbv

RT: 3.07 min Scan# 616

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

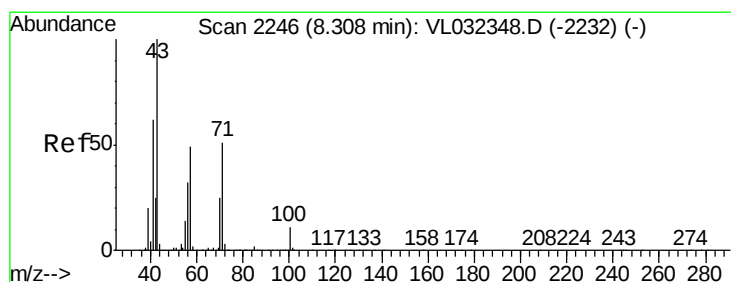
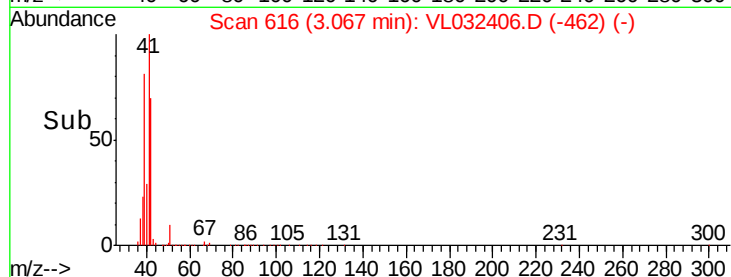
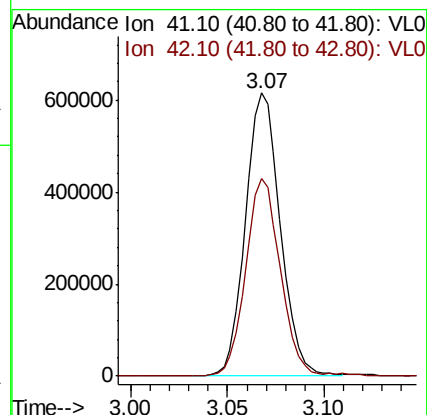
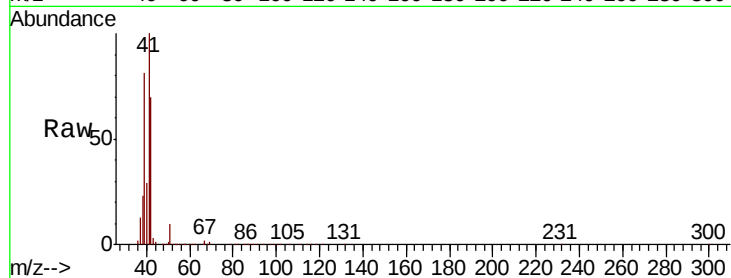
ClientSampleId :

Tot Ion: 41 Resp: 772729

Ion Ratio Lower Upper

41 100

42 70.0 55.9 83.9



#10

Heptane

Concen: 10.941 ppbv

RT: 8.30 min Scan# 2244

Delta R.T. -0.01 min

Lab File: VL032406.D

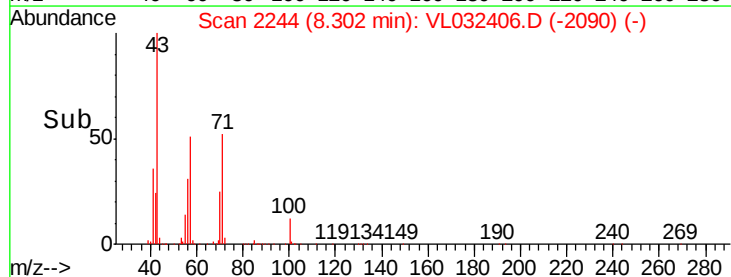
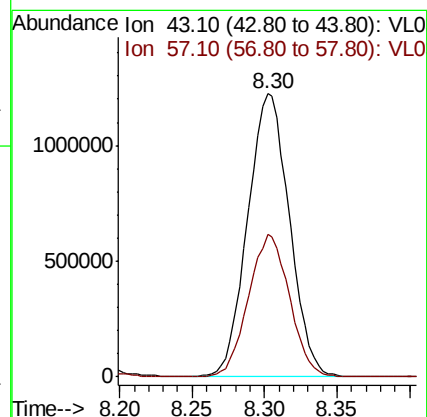
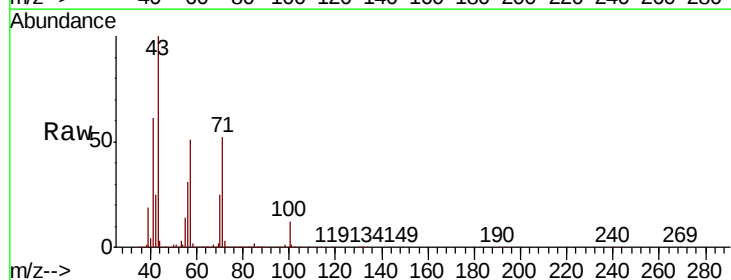
Acq: 20 Aug 2018 14:05

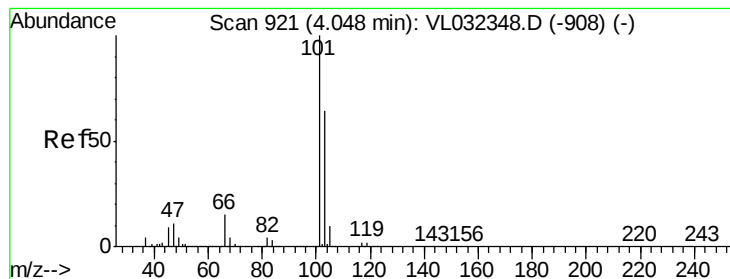
Tgt Ion: 43 Resp: 2440537

Ion Ratio Lower Upper

43 100

57 49.4 39.5 59.3





#11

Trichlorofluoromethane

Concen: 9.532 ppbv

RT: 4.04 min Scan# 919

Delta R.T. -0.01 min

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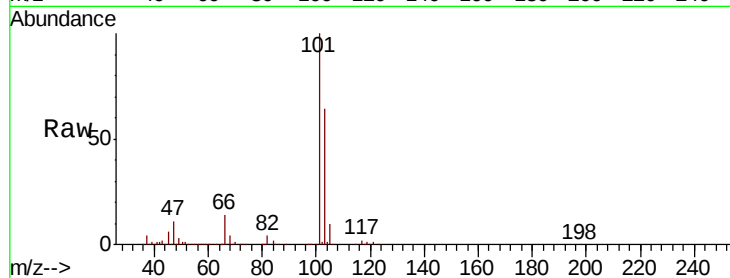
ClientSampled :

Tot Ion:101 Resp: 1991648

Ion Ratio Lower Upper

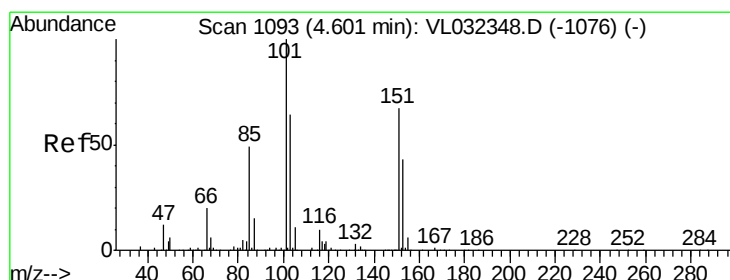
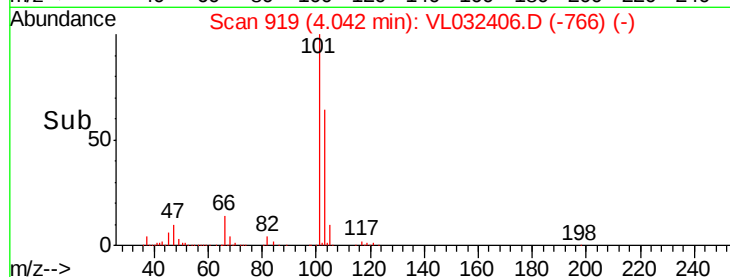
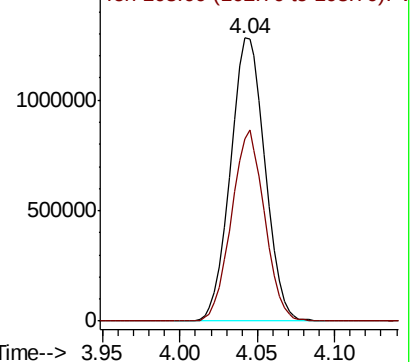
101 100

103 64.3 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.594 ppbv

RT: 4.59 min Scan# 1091

Delta R.T. -0.01 min

Lab File: VL032406.D

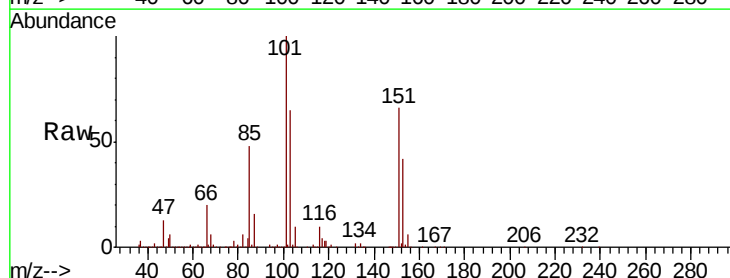
Acq: 20 Aug 2018 14:05

Tgt Ion:101 Resp: 1349863

Ion Ratio Lower Upper

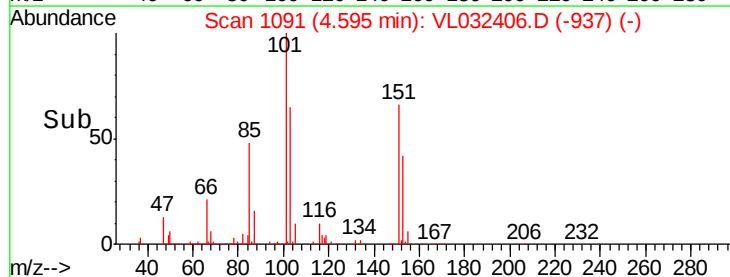
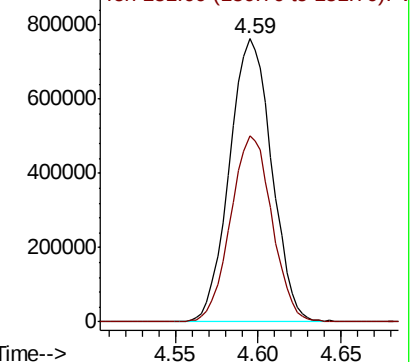
101 100

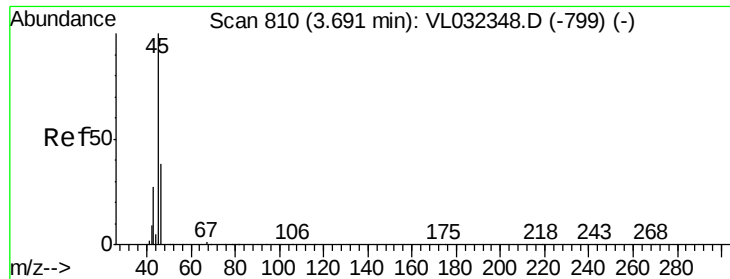
151 64.7 53.1 79.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 11.024 ppbv

RT: 3.68 min Scan# 808

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

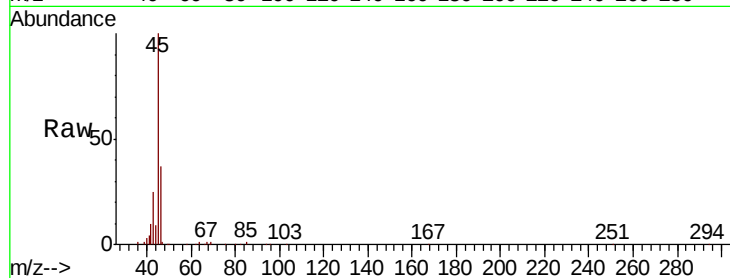
ClientSampled :

Tot Ion: 45 Resp: 209700

Ion Ratio Lower Upper

45 100

46 37.3 15.6 62.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

3.68

120000

100000

80000

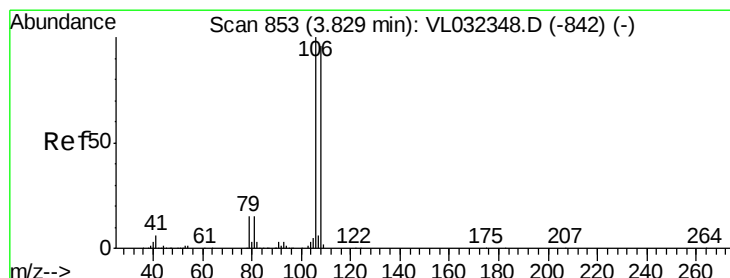
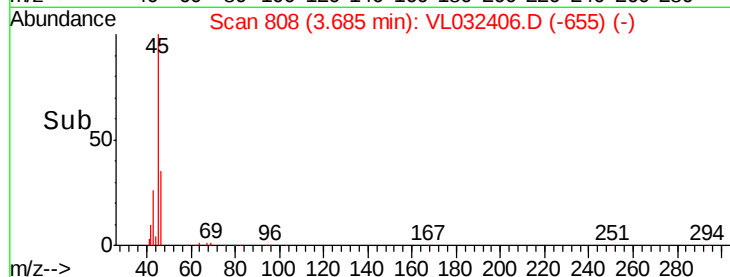
60000

40000

20000

0

Time-->



#14

Bromoethene

Concen: 10.252 ppbv

RT: 3.83 min Scan# 852

Delta R.T. -0.00 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

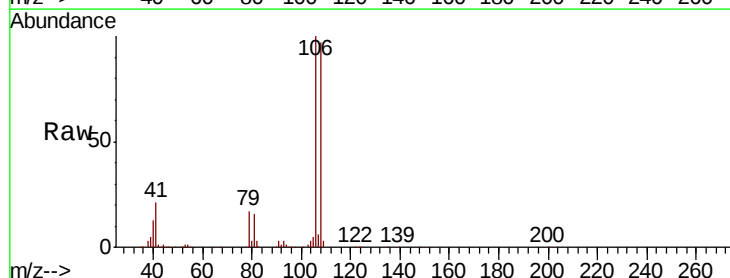
Tgt Ion: 108 Resp: 623821

Ion Ratio Lower Upper

108 100

106 107.9 85.7 128.5

79 17.1 13.1 19.7



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0

600000

500000

400000

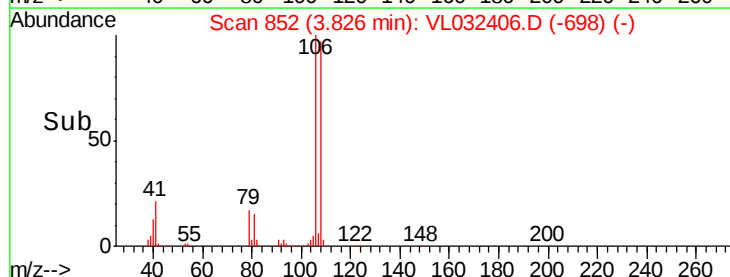
300000

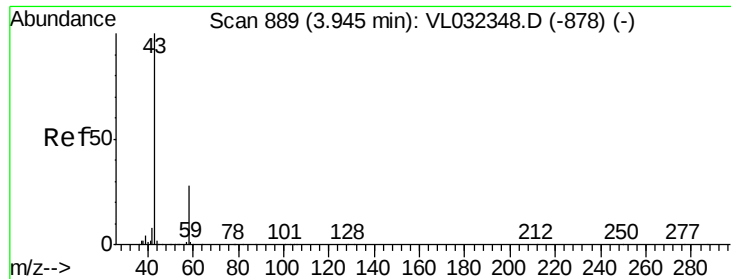
200000

100000

0

Time-->





#15

Acetone

Concen: 8.811 ppbv

RT: 3.94 min Scan# 887

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

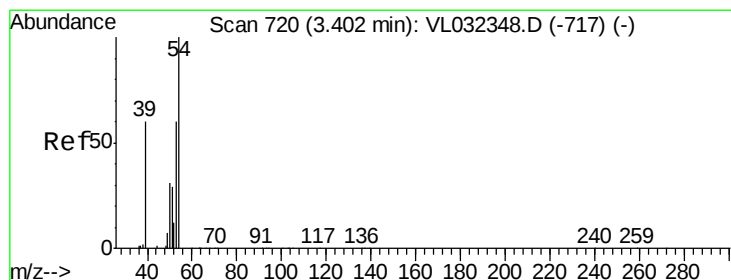
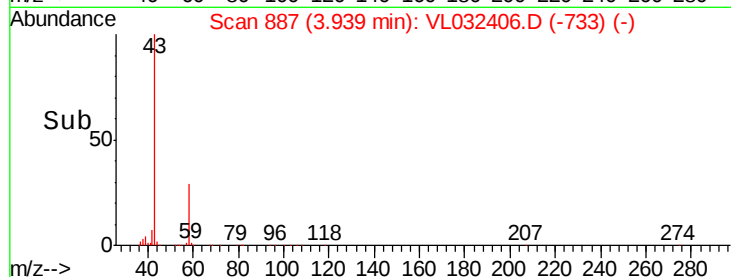
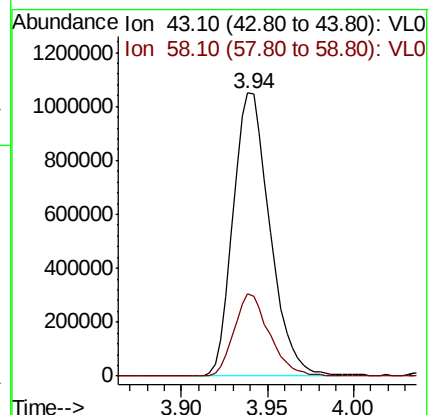
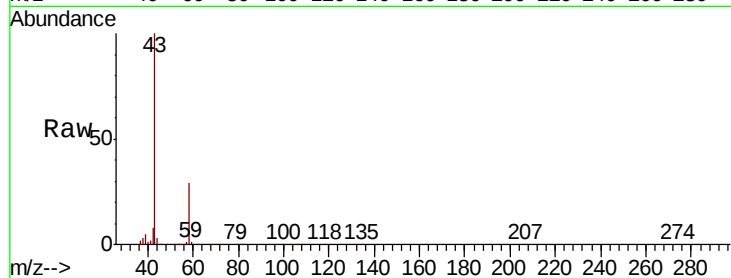
ClientSampled :

Tot Ion: 43 Resp: 1563871

Ion Ratio Lower Upper

43 100

58 28.2 22.4 33.6



#16

1,3-Butadiene

Concen: 10.700 ppbv

RT: 3.40 min Scan# 719

Delta R.T. -0.00 min

Lab File: VL032406.D

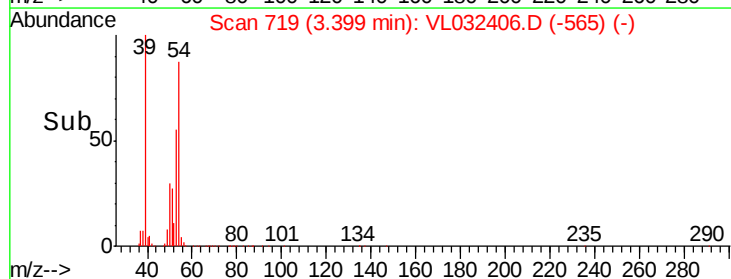
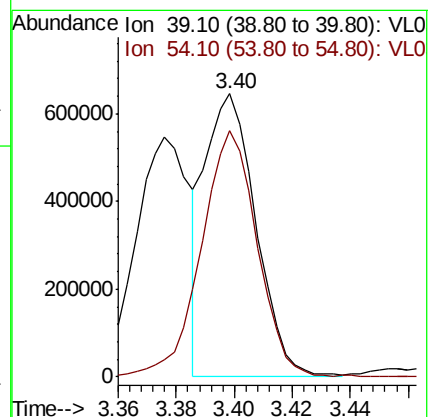
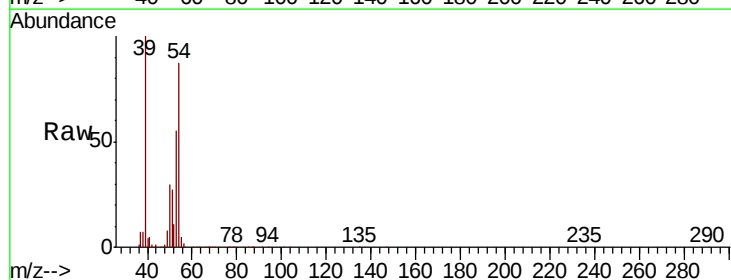
Acq: 20 Aug 2018 14:05

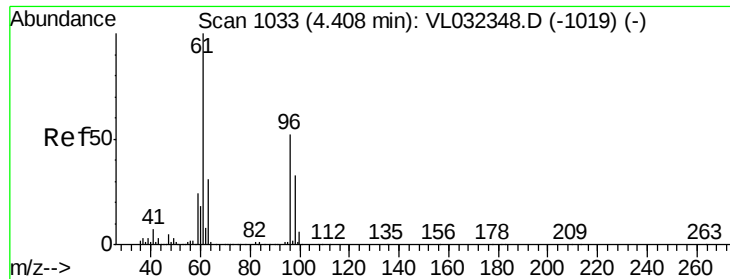
Tgt Ion: 39 Resp: 784128

Ion Ratio Lower Upper

39 100

54 96.8 85.5 128.3

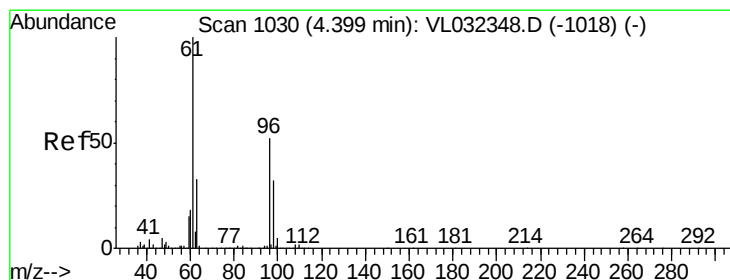
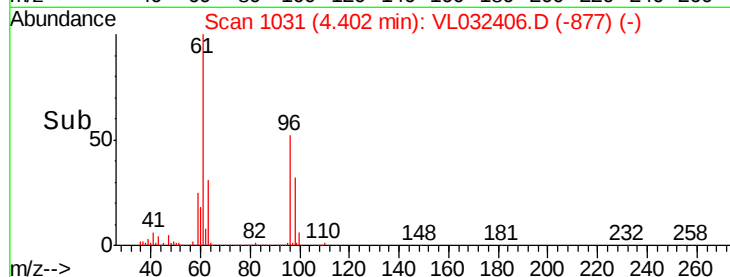
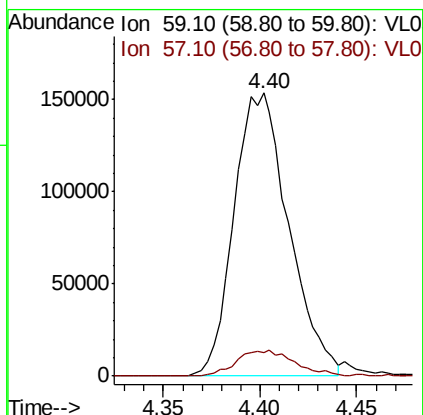
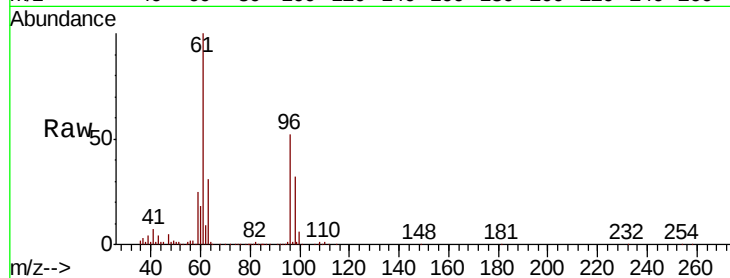




#17
 tert-Butyl alcohol
 Concen: 10.161 ppbv
 RT: 4.40 min Scan# 1031
 Delta R.T. -0.01 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

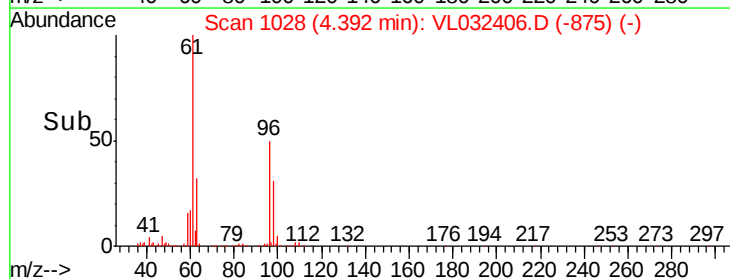
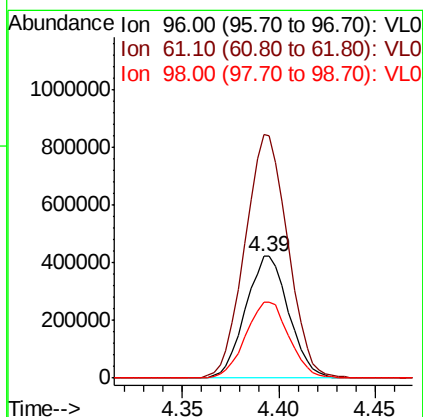
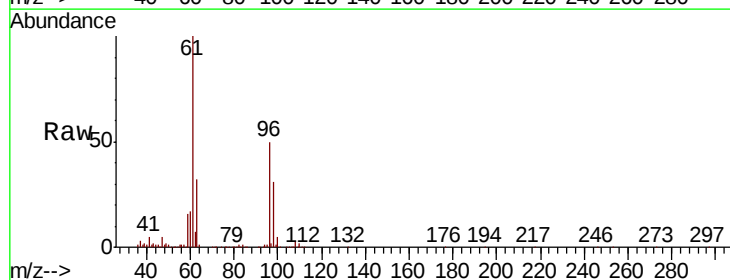
Instrument :
 MSVOA_L
 ClientSampleId :

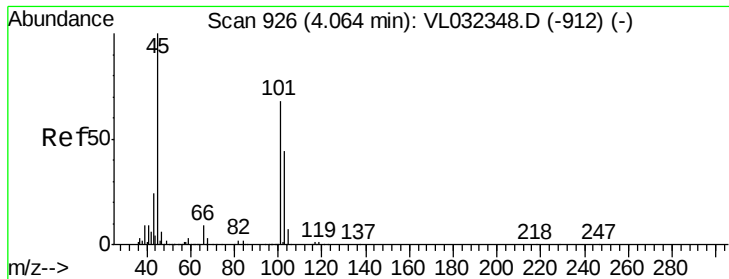
Tot Ion: 59 Resp: 302618
 Ion Ratio Lower Upper
 59 100
 57 9.9 7.6 11.4



#18
 1,1-Dichloroethene
 Concen: 9.987 ppbv
 RT: 4.39 min Scan# 1028
 Delta R.T. -0.01 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

Tgt Ion: 96 Resp: 654683
 Ion Ratio Lower Upper
 96 100
 61 199.9 154.6 231.8
 98 62.1 50.1 75.1





#19

Isopropyl Alcohol

Concen: 10.329 ppbv

RT: 4.06 min Scan# 925

Delta R.T. -0.00 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

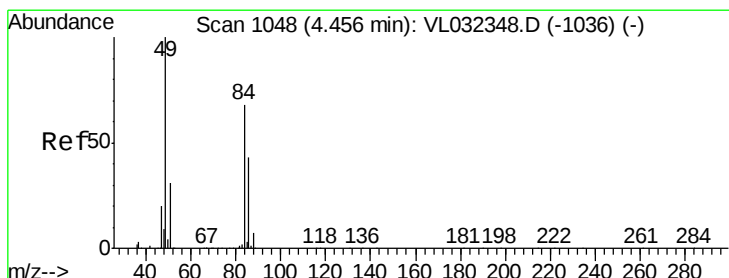
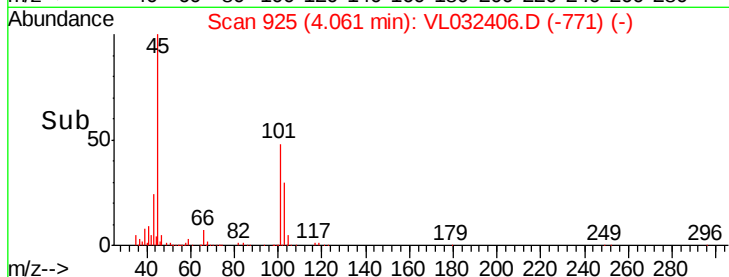
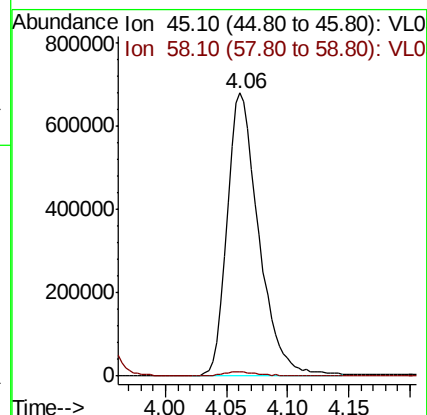
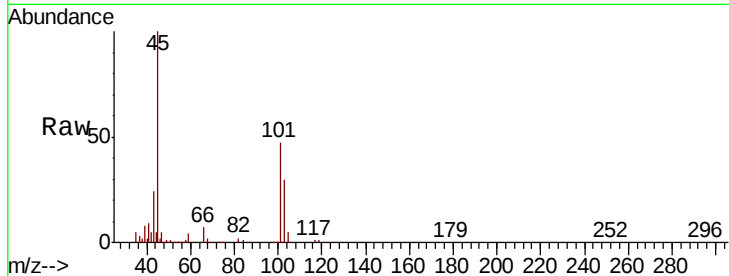
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 45 Resp: 1234513

Ion Ratio Lower Upper

45 100

58 1.8 1.4 2.0



#20

Methylene Chloride

Concen: 8.546 ppbv

RT: 4.45 min Scan# 1046

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Tgt Ion: 84 Resp: 572903

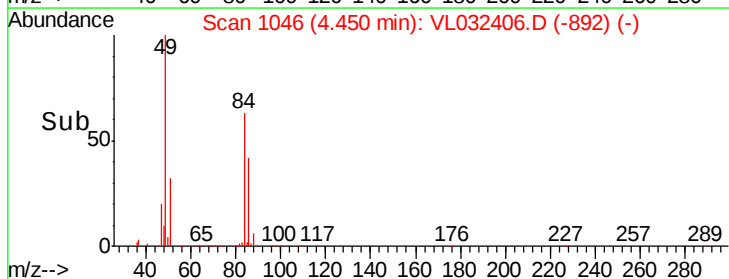
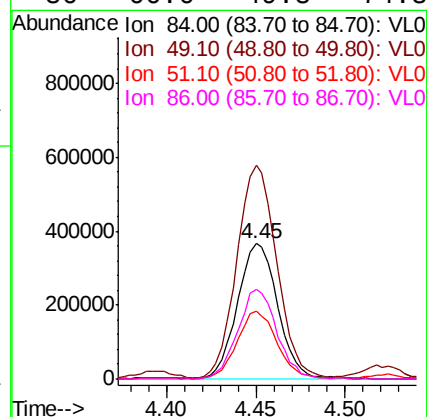
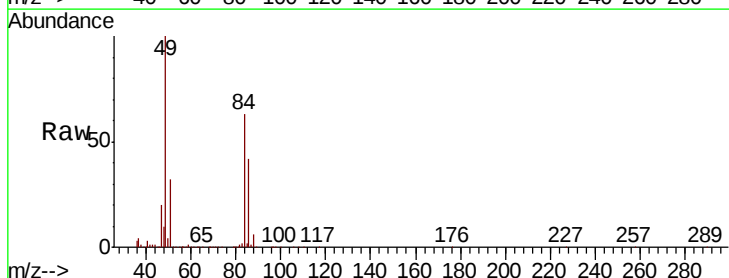
Ion Ratio Lower Upper

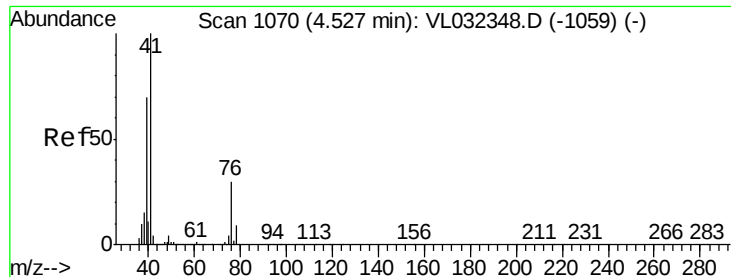
84 100

49 157.4 117.3 175.9

51 50.4 36.6 55.0

86 66.6 49.8 74.8

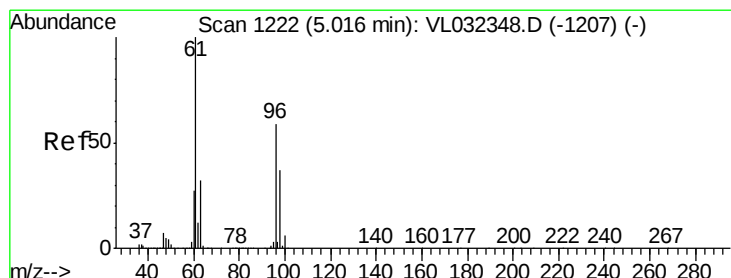
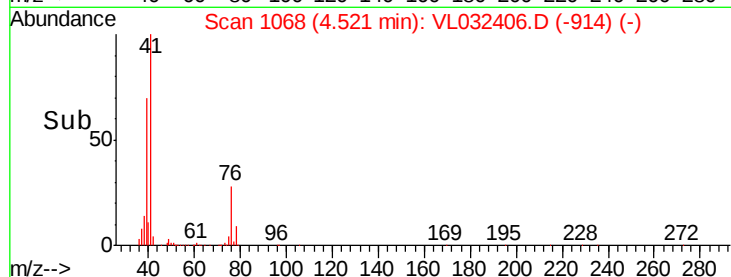
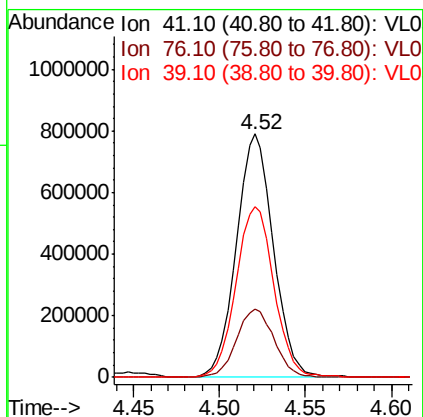
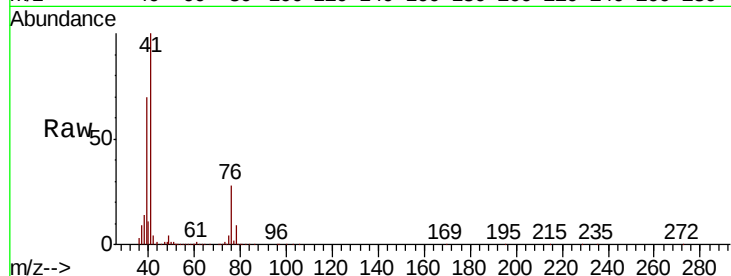




#21
 Allvl Chloride
 Concen: 10.495 ppbv
 RT: 4.52 min Scan# 1068
 Delta R.T. -0.01 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

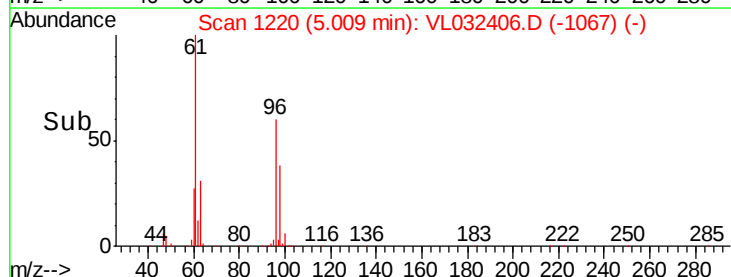
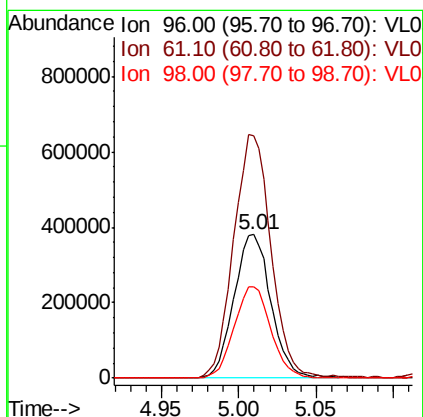
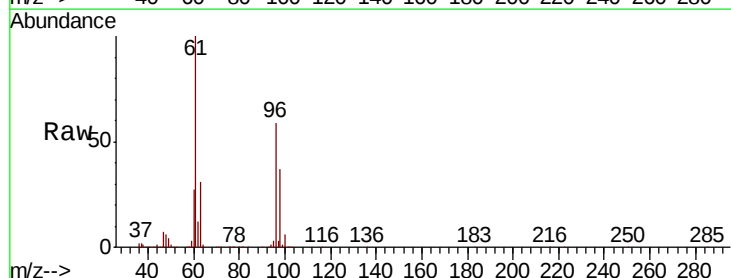
Instrument :
 MSVOA_L
 ClientSampleId :

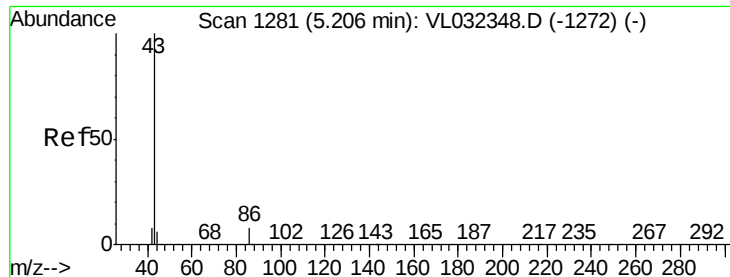
Tot Ion: 41 Resp: 1175722
 Ion Ratio Lower Upper
 41 100
 76 28.8 22.9 34.3
 39 72.4 57.6 86.4



#22
 trans-1,2-Dichloroethene
 Concen: 9.555 ppbv
 RT: 5.01 min Scan# 1220
 Delta R.T. -0.01 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

Tgt Ion: 96 Resp: 631648
 Ion Ratio Lower Upper
 96 100
 61 169.1 136.6 205.0
 98 63.3 50.6 76.0





#23

Vinyl Acetate

Concen: 9.485 ppbv

RT: 5.20 min Scan# 1280

Delta R.T. -0.00 min

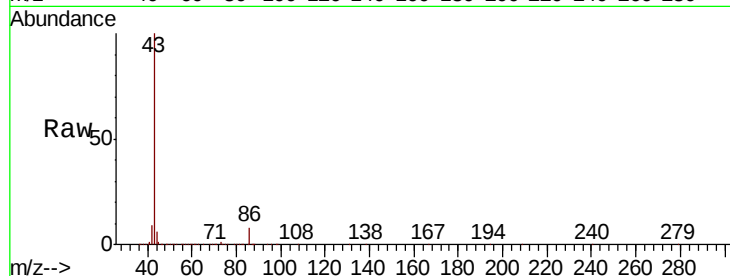
Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

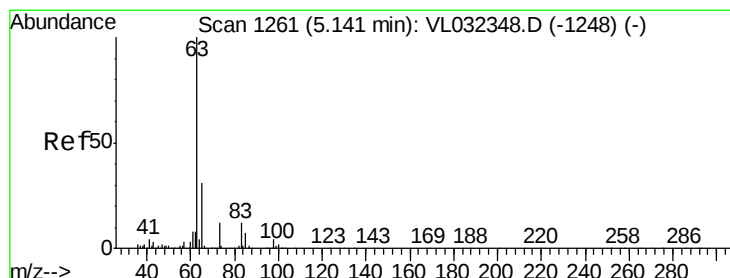
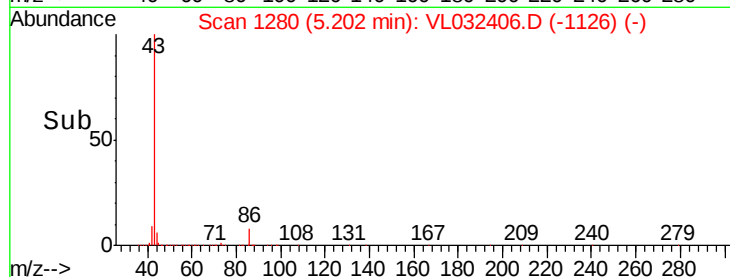
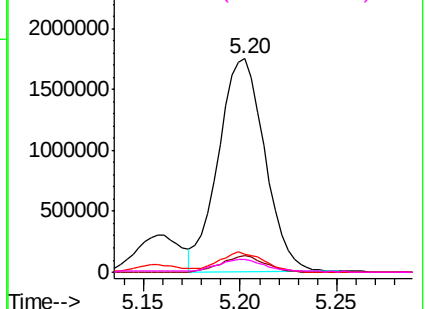
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 2907176

Ion	Ratio	Lower	Upper
43	100		
86	7.6	5.5	8.3
42	8.6	7.0	10.6
44	5.6	4.6	6.8



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: 9.145 ppbv

RT: 5.13 min Scan# 1259

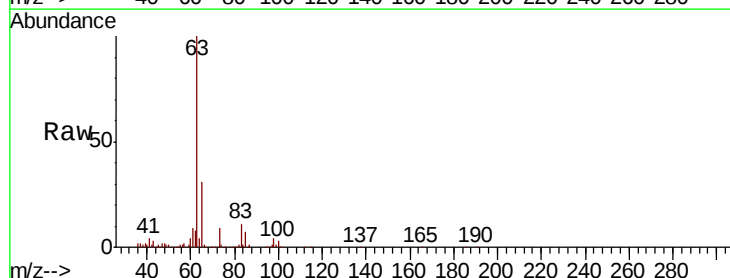
Delta R.T. -0.01 min

Lab File: VL032406.D

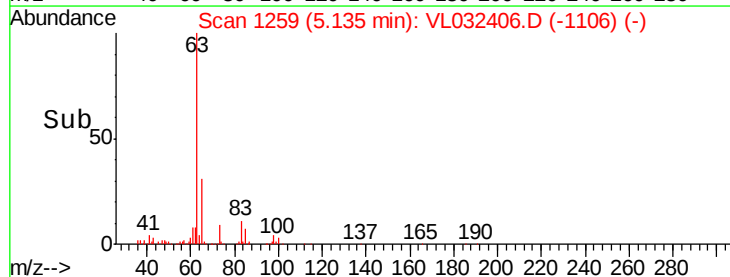
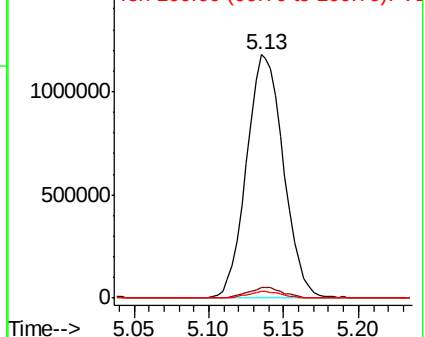
Acq: 20 Aug 2018 14:05

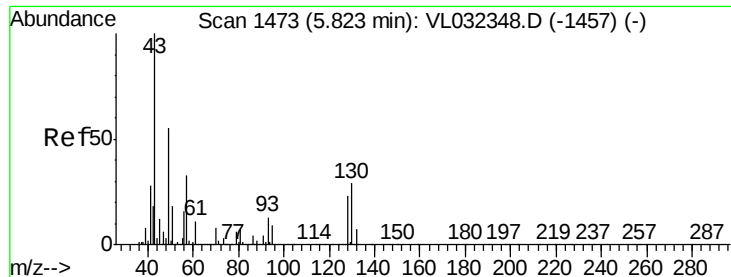
Tgt Ion: 63 Resp: 2023698

Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.1	6.3
100	2.6	1.2	3.6



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



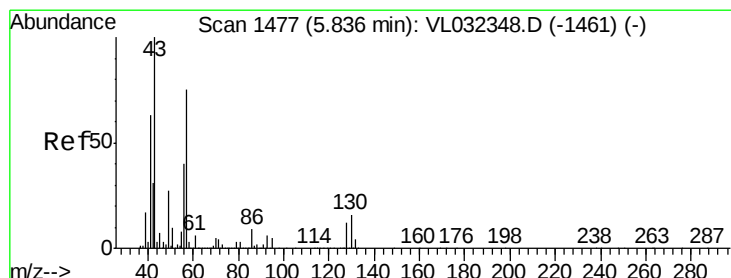
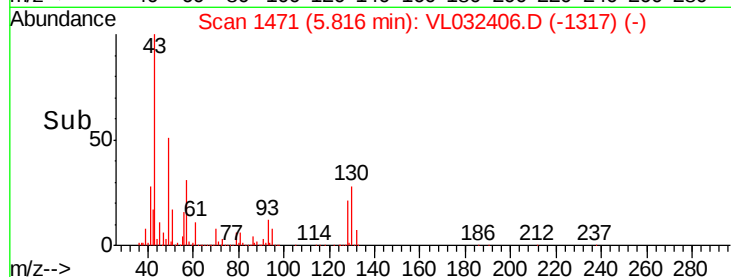
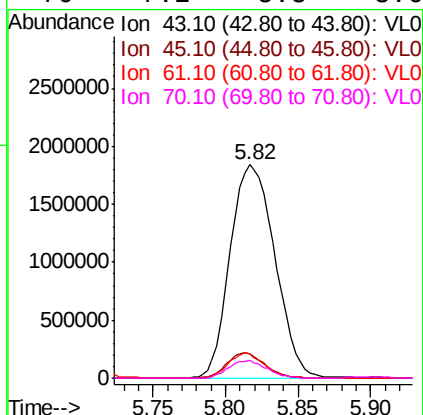
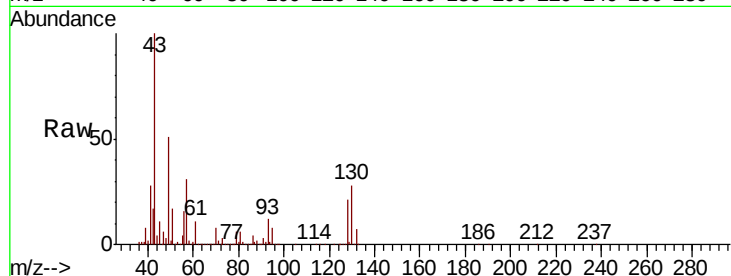


#25
Ethyl Acetate
Concen: 10.358 ppbv
RT: 5.82 min Scan# 1471
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 3939986

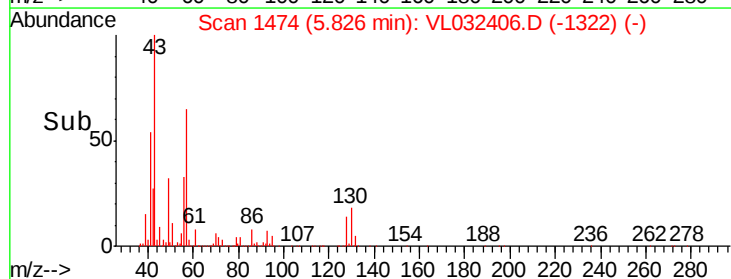
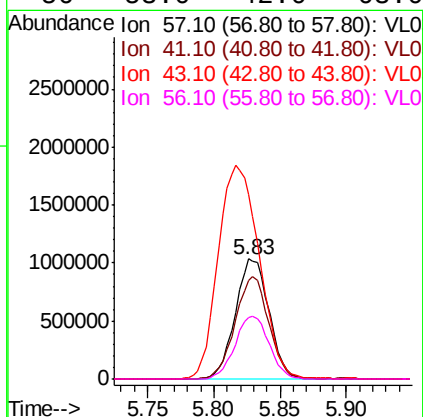
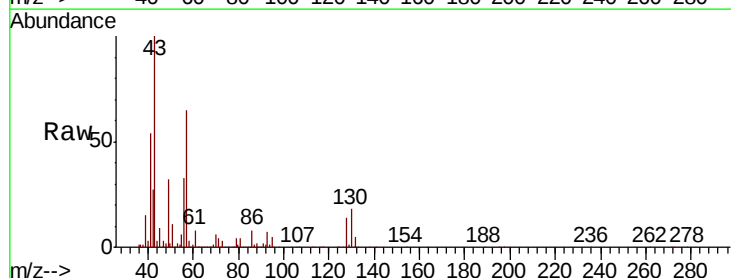
Ion	Ratio	Lower	Upper
43	100		
45	10.3	7.9	11.9
61	9.5	7.4	11.2
70	7.2	5.8	8.6

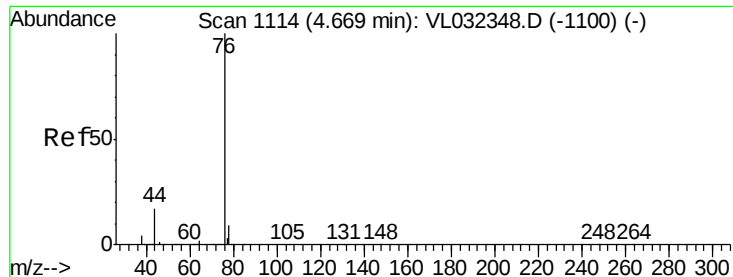


#26
Hexane
Concen: 10.747 ppbv
RT: 5.83 min Scan# 1474
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

Tgt Ion: 57 Resp: 1822405

Ion	Ratio	Lower	Upper
57	100		
41	85.5	68.0	102.0
43	217.6	175.3	262.9
56	53.0	42.0	63.0





#27

Carbon Disulfide

Concen: 10.762 ppbv

RT: 4.66 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

ClientSampleId :

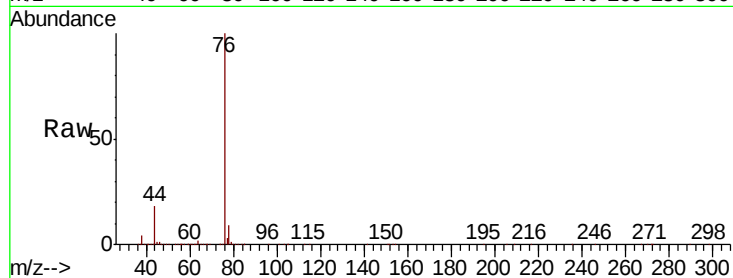
Tot Ion: 76 Resp: 1703337

Ion	Ratio	Lower	Upper
76	100		
44	17.7	14.4	21.6
78	9.5	7.4	11.0

76 100

44 17.7 14.4 21.6

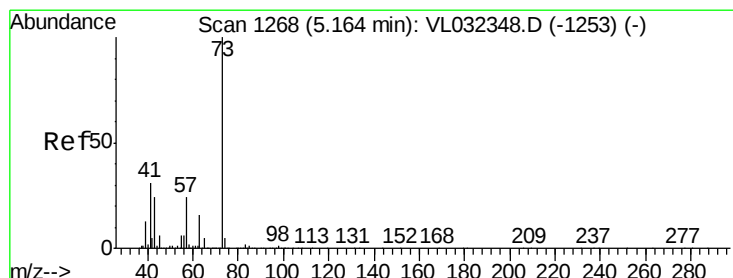
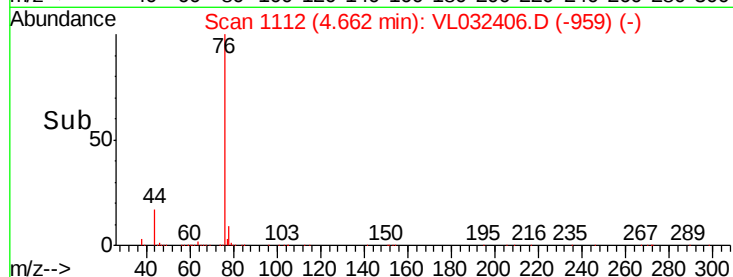
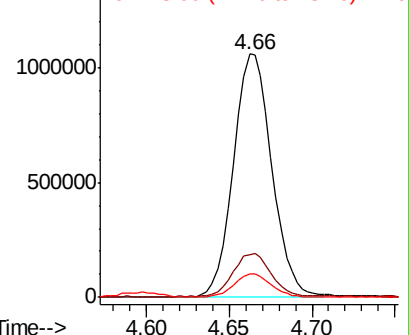
78 9.5 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.871 ppbv

RT: 5.16 min Scan# 1266

Delta R.T. -0.01 min

Lab File: VL032406.D

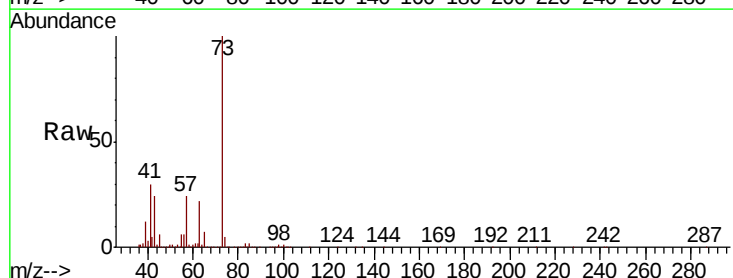
Acq: 20 Aug 2018 14:05

Tgt Ion: 73 Resp: 2221261

Ion	Ratio	Lower	Upper
73	100		
57	23.8	19.3	28.9

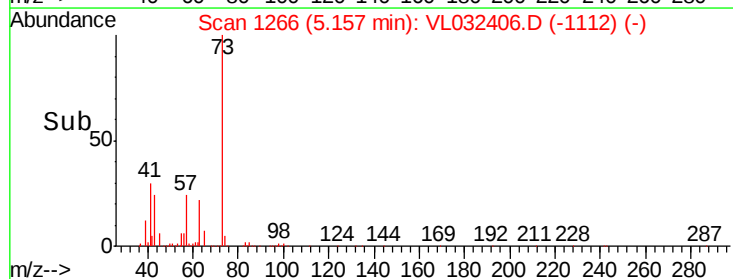
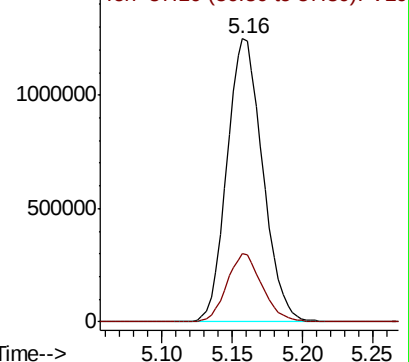
73 100

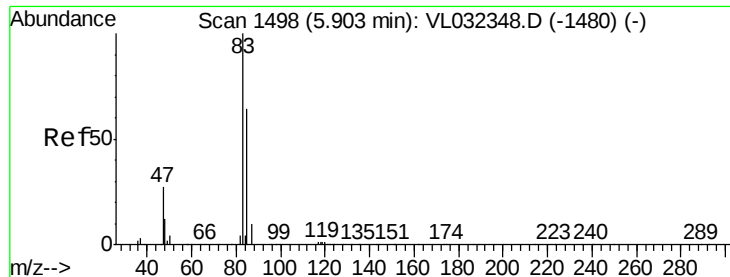
57 23.8 19.3 28.9



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 10.628 ppbv

RT: 5.90 min Scan# 1497

Delta R.T. -0.00 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

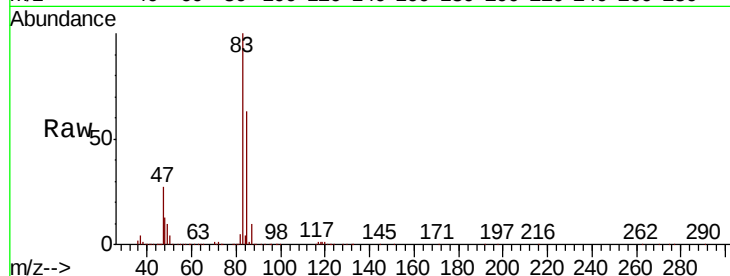
ClientSampleId :

Tot Ion: 83 Resp: 2641078

Ion Ratio Lower Upper

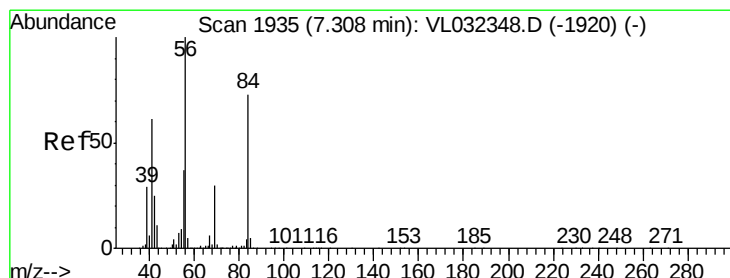
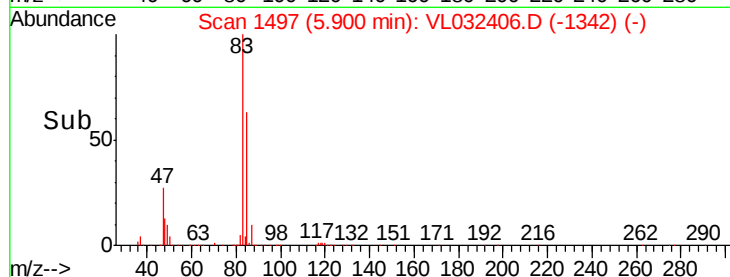
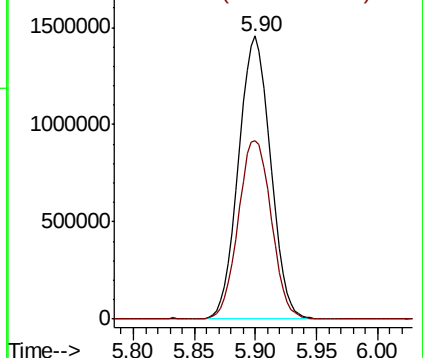
83 100

85 63.1 51.6 77.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 10.604 ppbv

RT: 7.30 min Scan# 1933

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

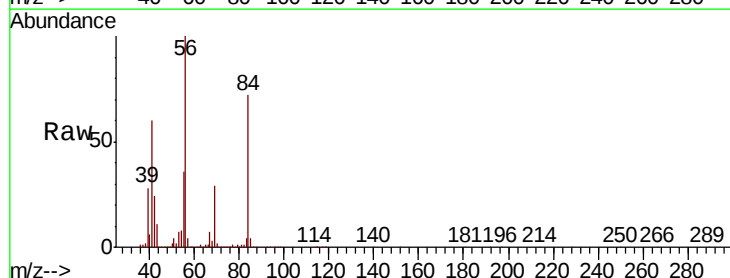
Tgt Ion: 84 Resp: 1369688

Ion Ratio Lower Upper

84 100

56 144.5 115.7 173.5

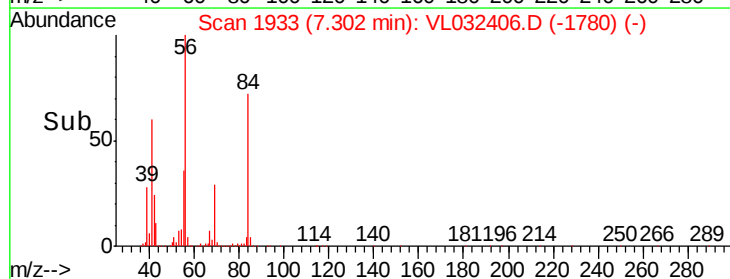
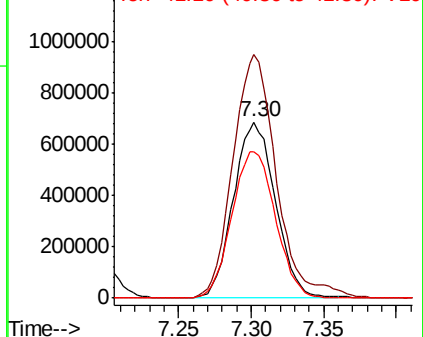
41 86.9 67.9 101.9

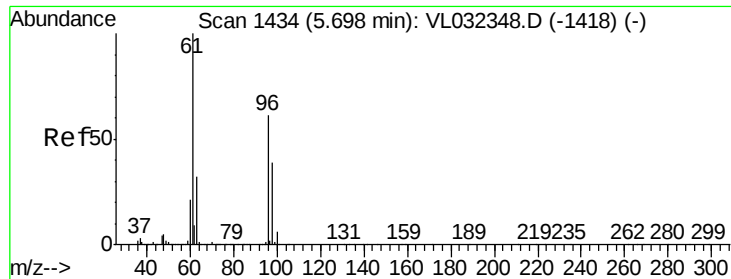


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

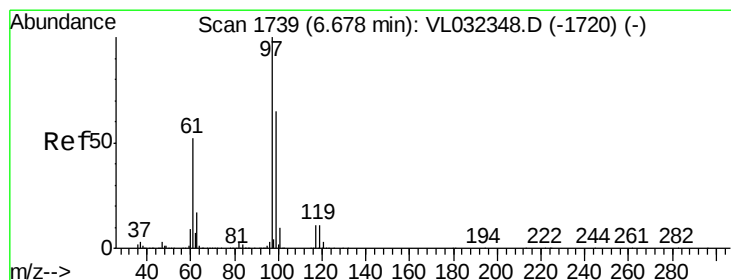
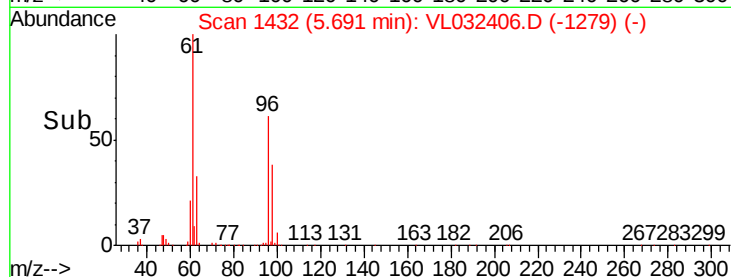
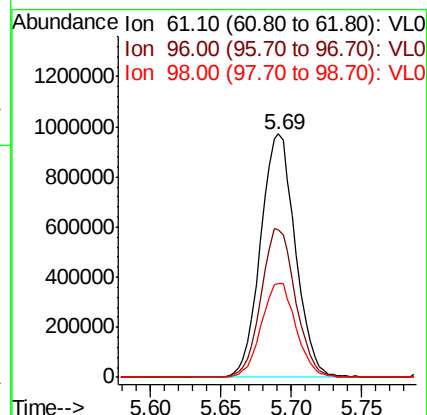
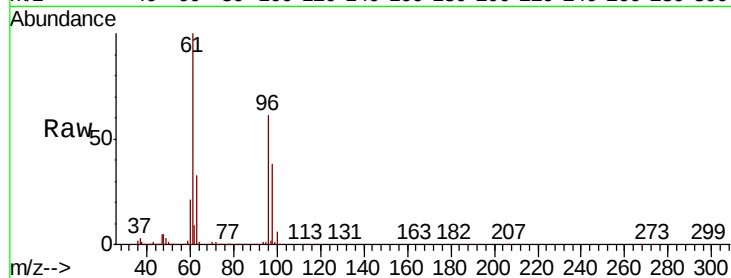




#31
 cis-1,2-Dichloroethene
 Concen: 10.069 ppbv
 RT: 5.69 min Scan# 1432
 Delta R.T. -0.01 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

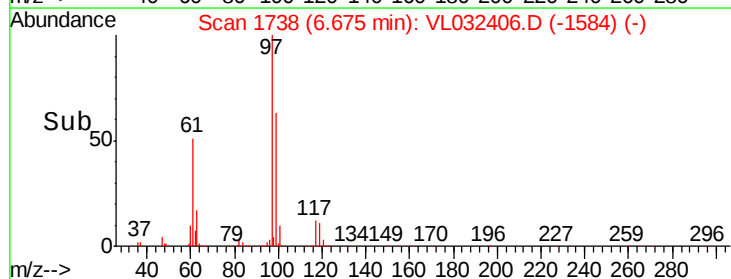
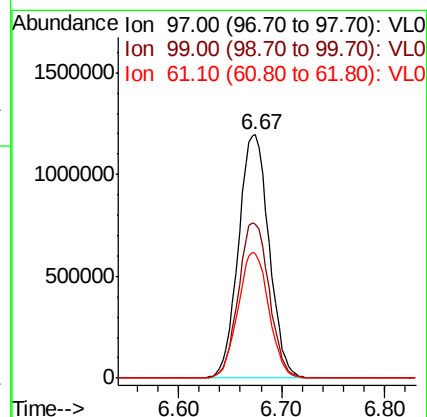
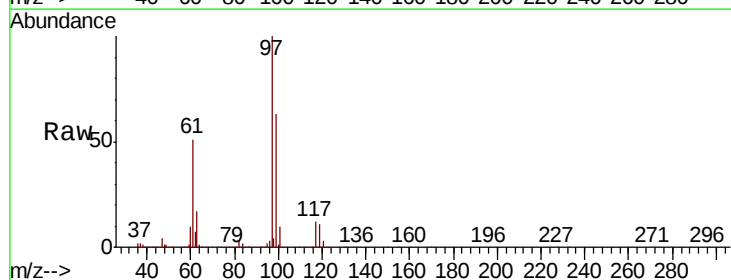
Instrument :
 MSVOA_L
 ClientSampleId :

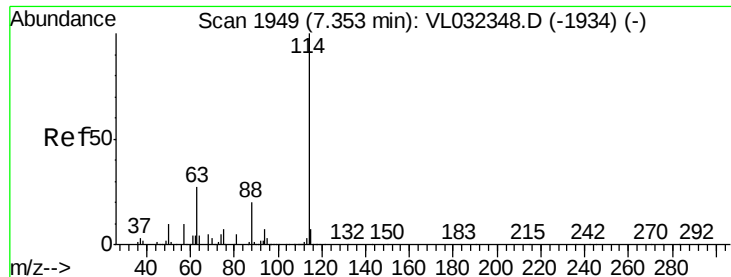
Tot Ion: 61 Resp: 1670416
 Ion Ratio Lower Upper
 61 100
 96 60.8 48.5 72.7
 98 38.4 31.0 46.4



#32
 1,1,1-Trichloroethane
 Concen: 10.220 ppbv
 RT: 6.67 min Scan# 1738
 Delta R.T. -0.00 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

Tgt Ion: 97 Resp: 2471513
 Ion Ratio Lower Upper
 97 100
 99 64.4 51.1 76.7
 61 52.1 41.1 61.7

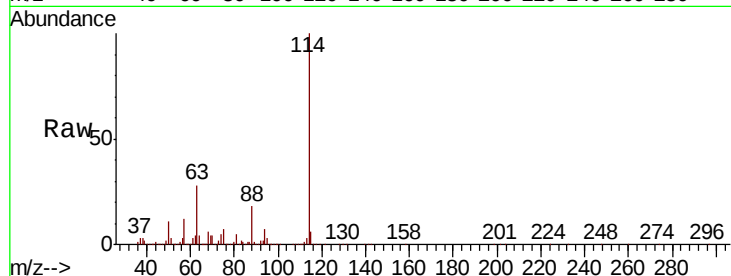




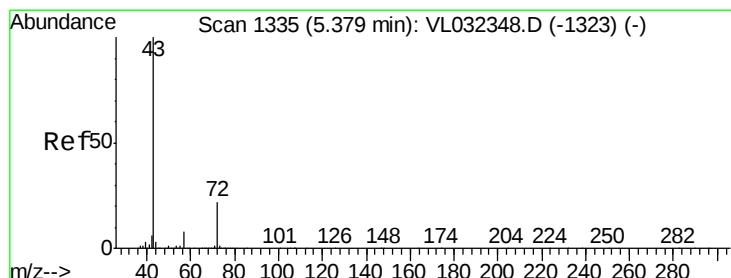
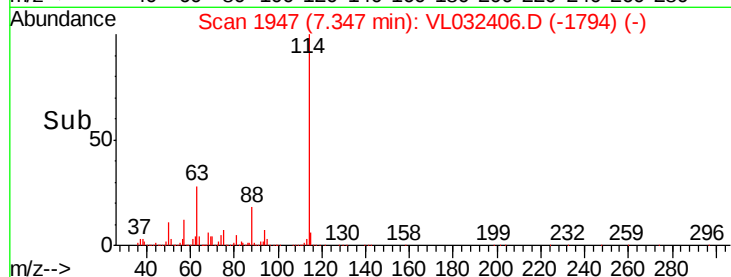
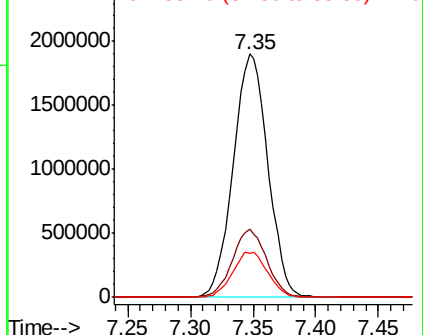
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.35 min Scan# 1947
 Delta R.T. -0.01 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion:114 Resp: 3638959
 Ion Ratio Lower Upper
 114 100
 63 27.9 22.0 33.0
 88 18.9 15.3 22.9

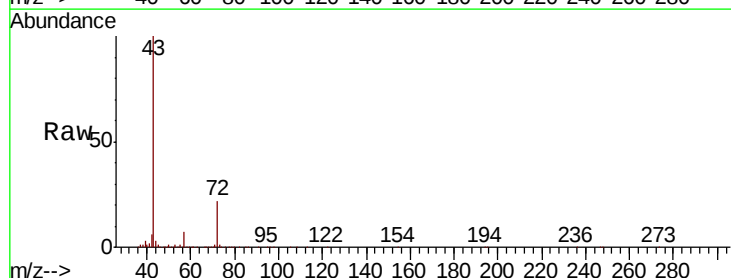


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

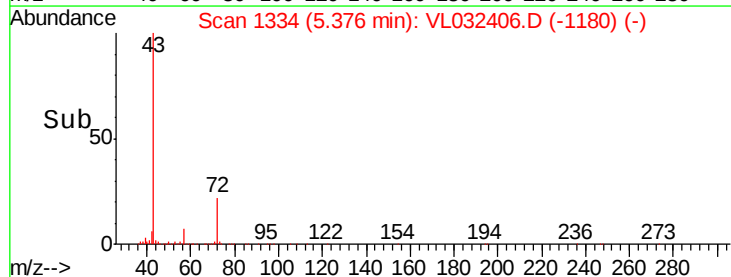
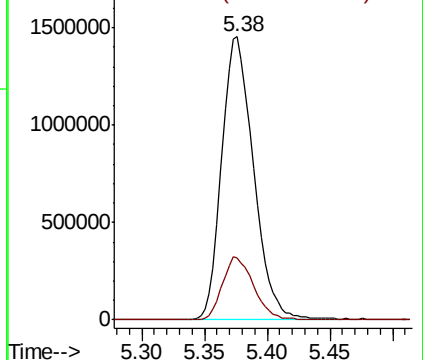


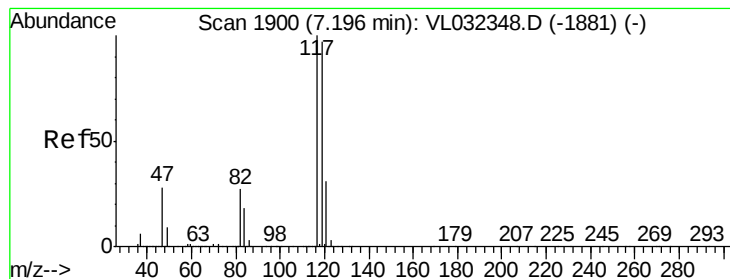
#34
 2-Butanone
 Concen: 10.307 ppbv
 RT: 5.38 min Scan# 1334
 Delta R.T. -0.00 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

Tgt Ion: 43 Resp: 2552720
 Ion Ratio Lower Upper
 43 100
 72 21.8 17.9 26.9



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





#35

Carbon Tetrachloride

Concen: 10.869 ppbv

RT: 7.19 min Scan# 1898

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

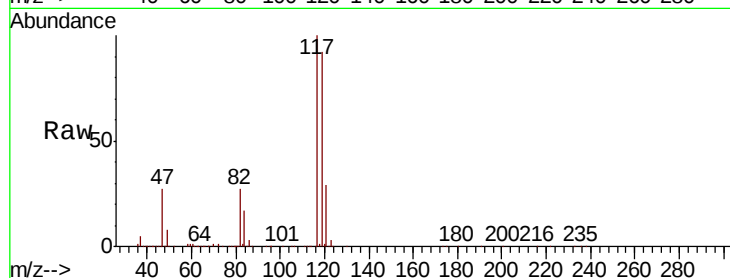
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:117 Resp: 2332130

Ion	Ratio	Lower	Upper
117	100		
119	92.4	77.2	115.8
121	29.3	25.1	37.7

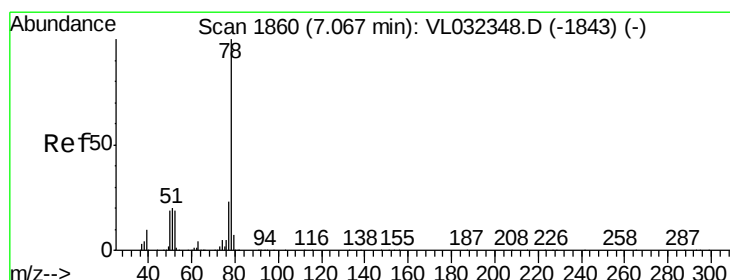
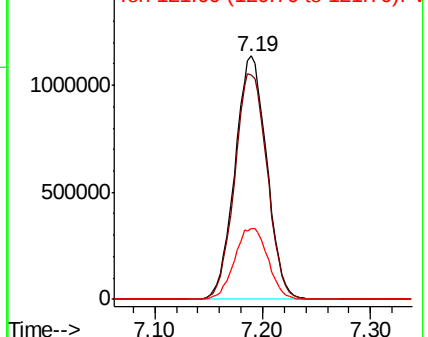
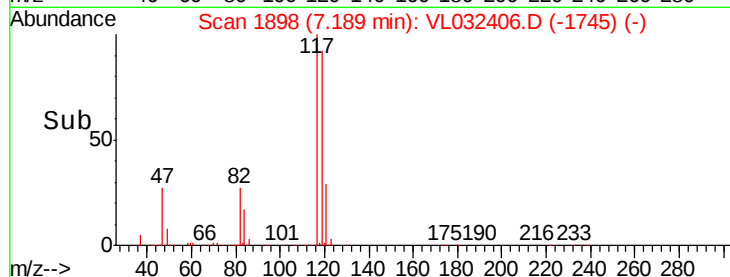


Abundance

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: 11.512 ppbv

RT: 7.06 min Scan# 1858

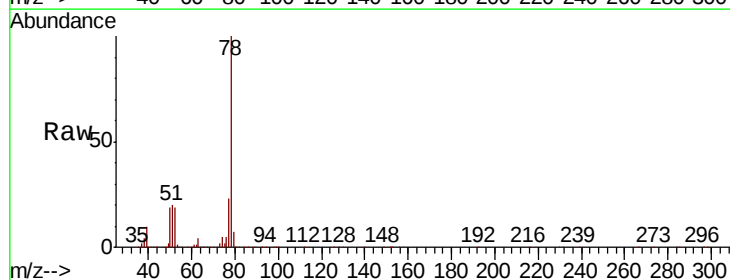
Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Tgt Ion: 78 Resp: 3551679

Ion	Ratio	Lower	Upper
78	100		
77	22.5	18.0	27.0
50	18.7	15.1	22.7

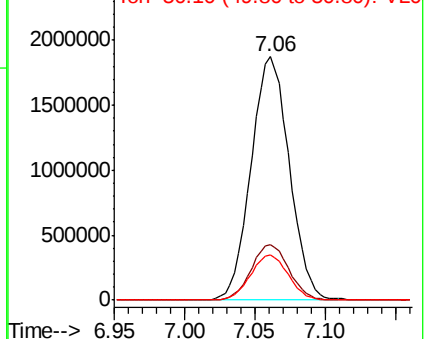
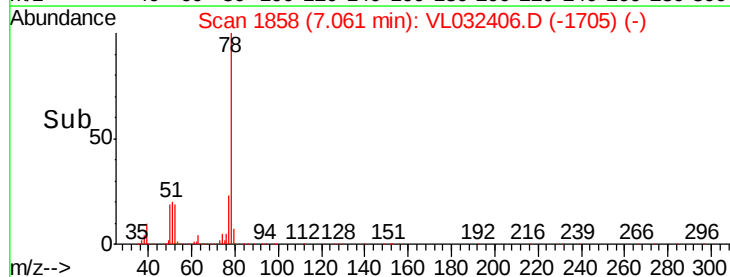


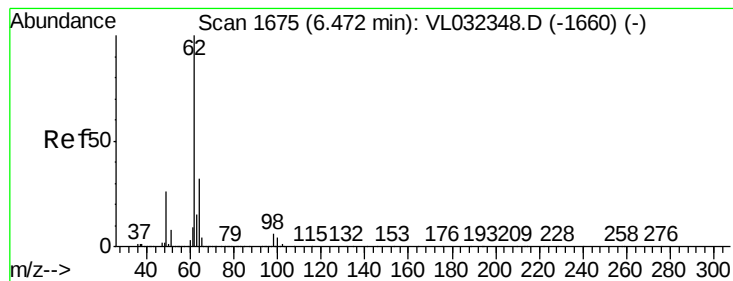
Abundance

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: 10.531 ppbv

RT: 6.47 min Scan# 1673

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

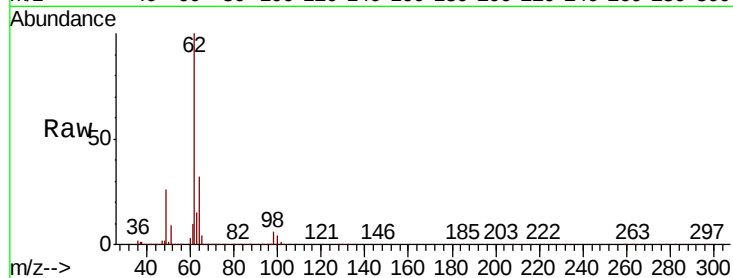
ClientSampleId :

Tot Ion: 62 Resp: 1971177

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

6.47

1200000

1000000

800000

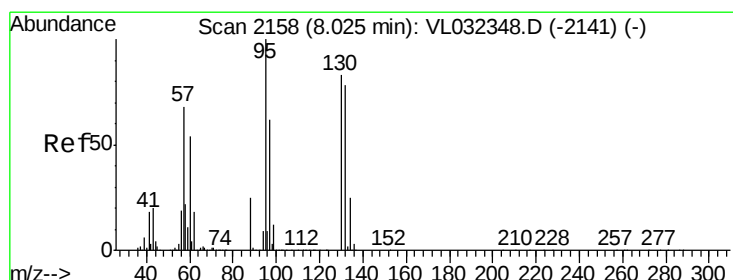
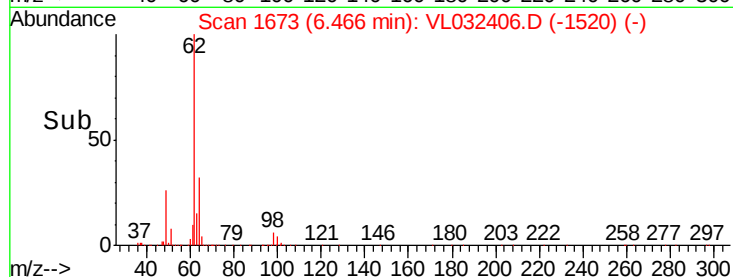
600000

400000

200000

0

Time-->



#38

Trichloroethene

Concen: 11.198 ppbv

RT: 8.02 min Scan# 2156

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Tgt Ion:130 Resp: 1211696

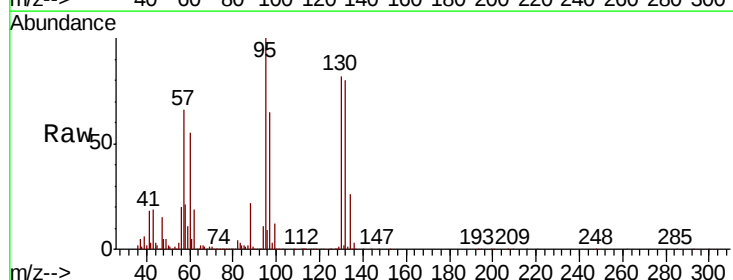
Ion Ratio Lower Upper

130 100

95 121.9 96.6 144.8

132 97.8 75.5 113.3

97 78.8 59.8 89.6



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

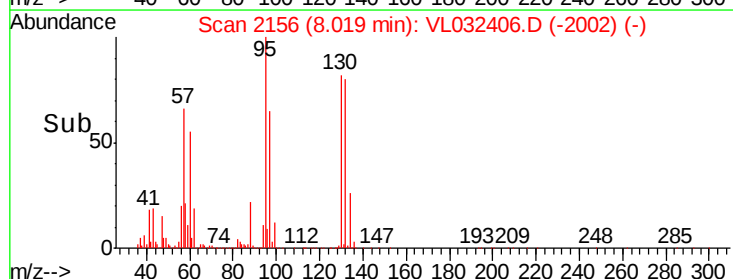
600000

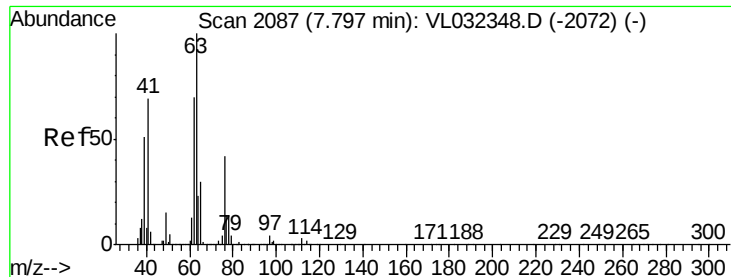
400000

200000

0

Time-->





#39

1,2-Dichloropropane

Concen: 11.019 ppbv

RT: 7.79 min Scan# 2086

Delta R.T. -0.00 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

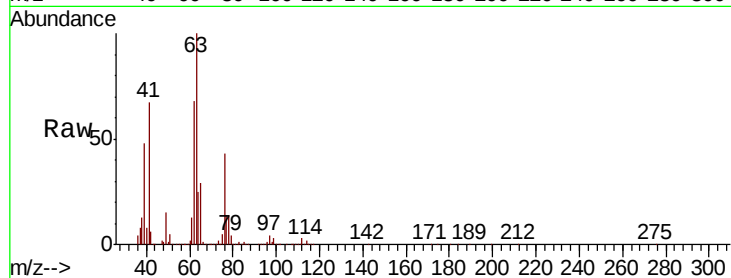
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 63 Resp: 1420087

Ion	Ratio	Lower	Upper
63	100		
41	67.2	55.5	83.3
62	68.2	56.3	84.5

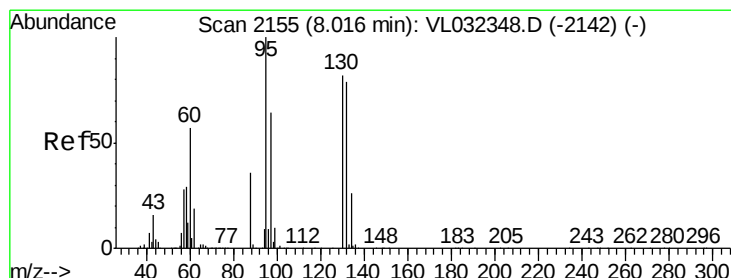
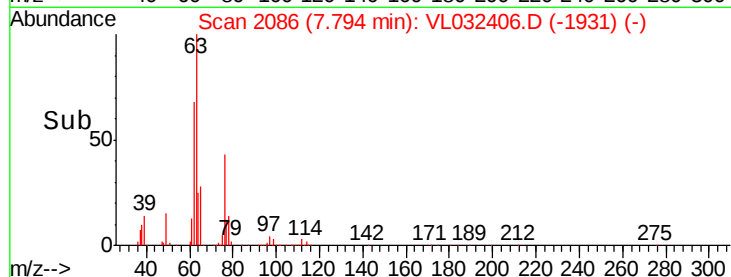
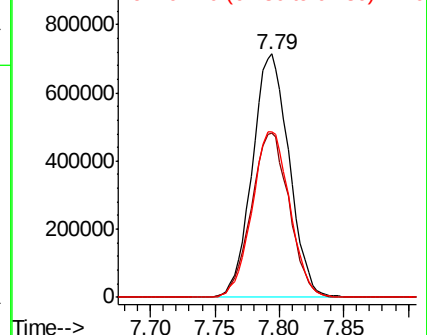


Abundance

Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 11.188 ppbv

RT: 8.01 min Scan# 2153

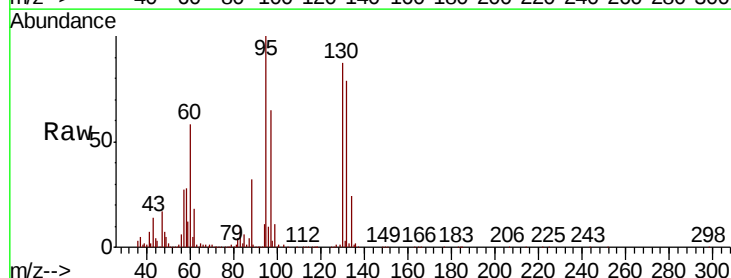
Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Tgt Ion: 88 Resp: 437966

Ion	Ratio	Lower	Upper
88	100		
58	152.0	113.7	170.5
43	0.0	224.0	336.0#
57	0.0	1013.0	1519.6#



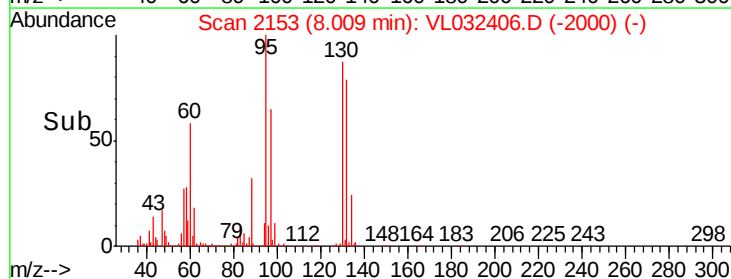
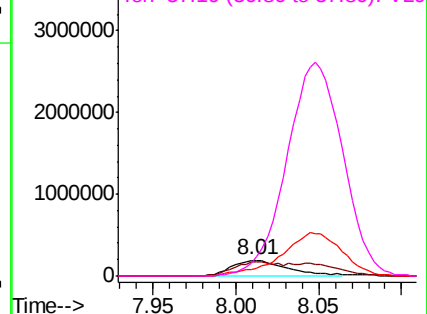
Abundance

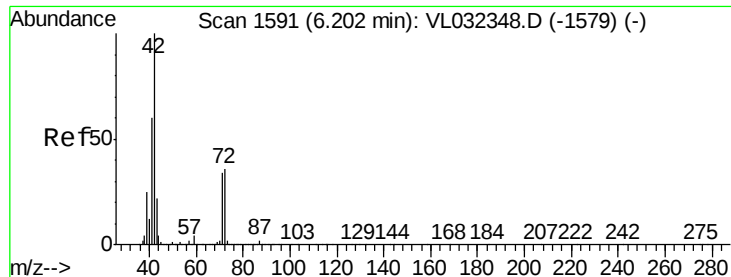
Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 11.490 ppbv

RT: 6.20 min Scan# 1589

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

ClientSampled :

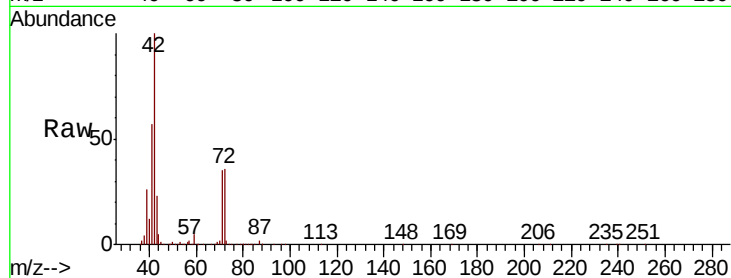
Tot Ion: 42 Resp: 1527692

Ion Ratio Lower Upper

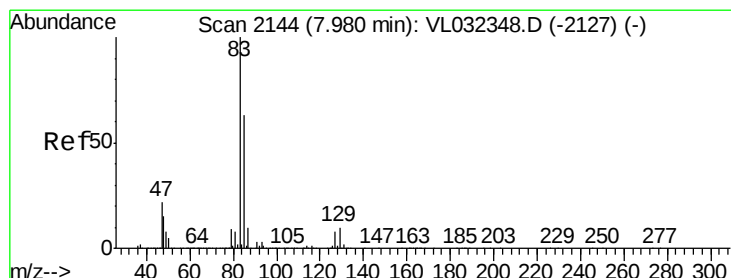
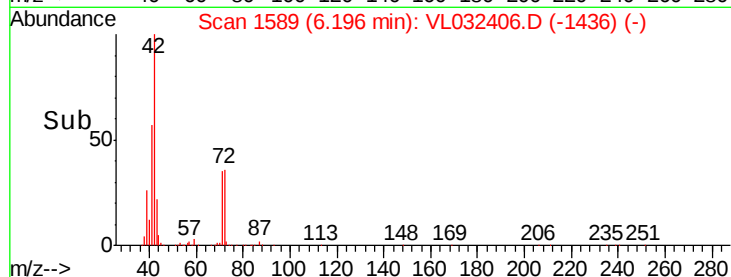
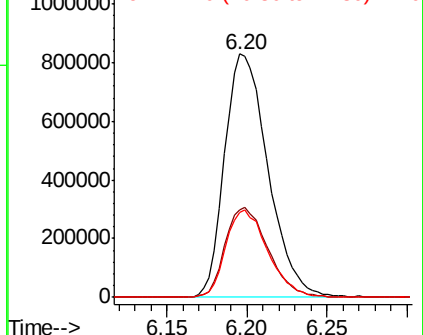
42 100

72 36.9 29.8 44.6

71 35.2 28.2 42.2



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 11.050 ppbv

RT: 7.97 min Scan# 2142

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

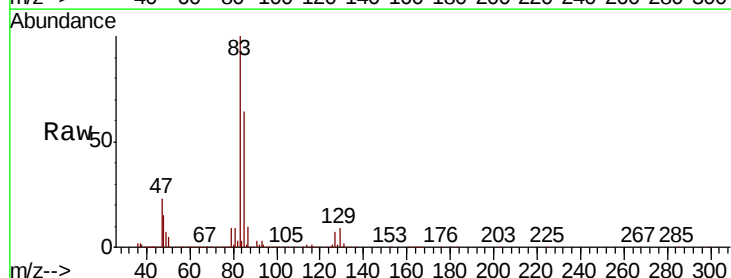
Tgt Ion: 83 Resp: 2708188

Ion Ratio Lower Upper

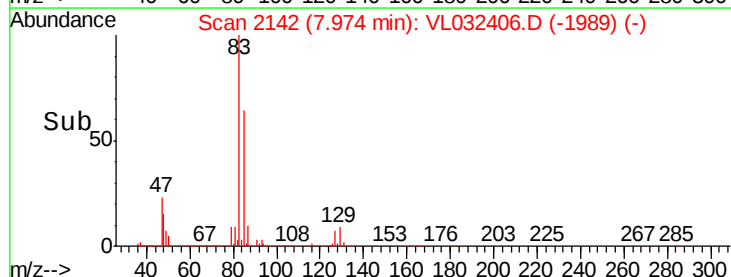
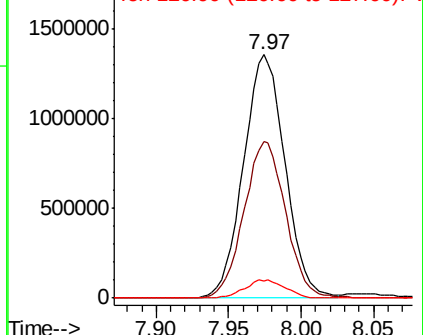
83 100

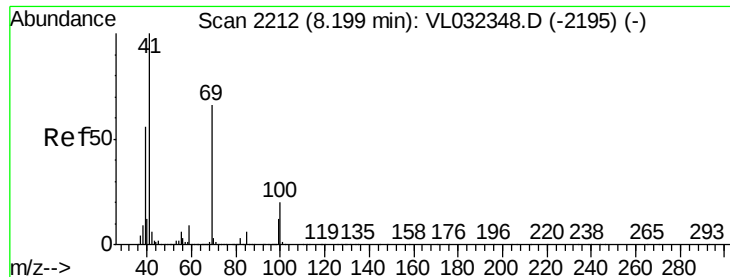
85 64.3 50.4 75.6

127 6.8 6.1 9.1



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





#43

Methyl Methacrylate

Concen: 11.859 ppbv

RT: 8.19 min Scan# 2210

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

ClientSampled :

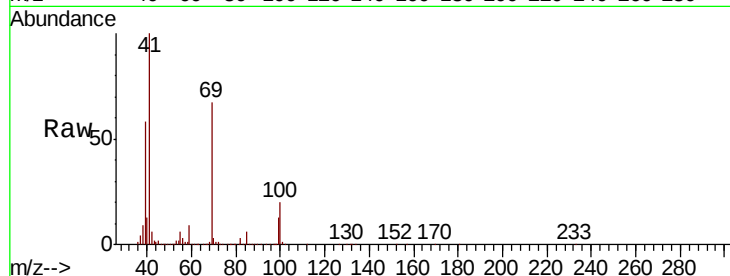
Tot Ion: 69 Resp: 1457772

Ion Ratio Lower Upper

69 100

41 150.9 118.6 177.8

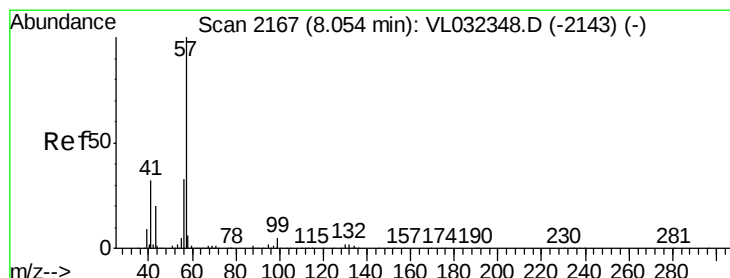
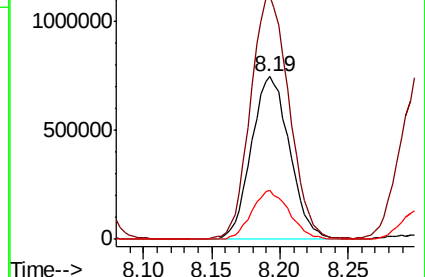
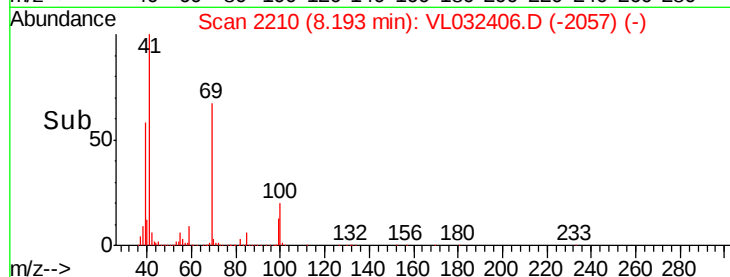
100 29.7 23.4 35.2



Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 11.112 ppbv

RT: 8.05 min Scan# 2165

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

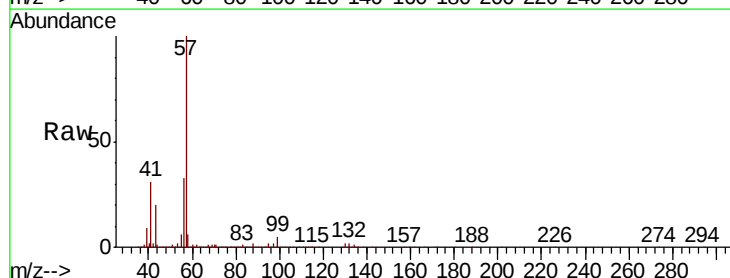
Tgt Ion: 57 Resp: 6181511

Ion Ratio Lower Upper

57 100

41 30.1 24.3 36.5

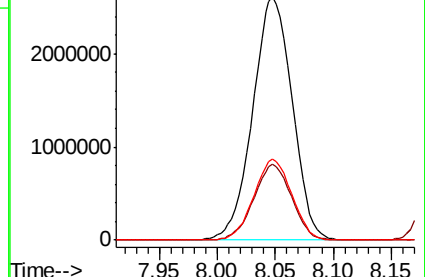
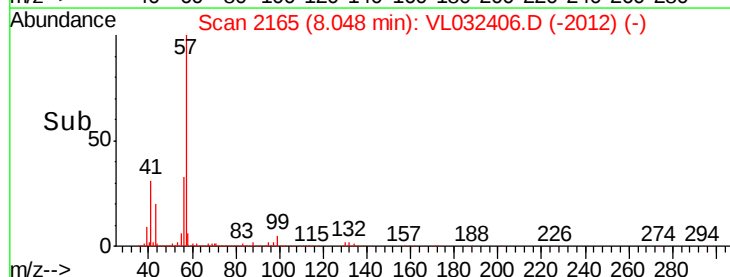
56 32.1 25.7 38.5

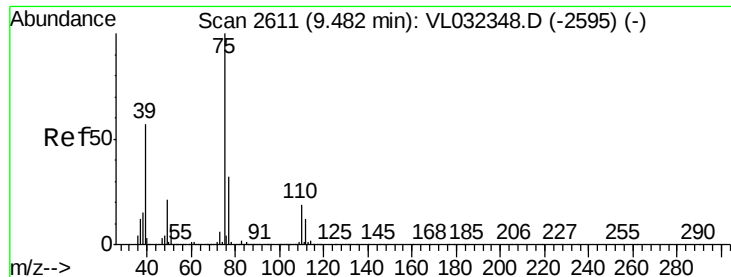


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

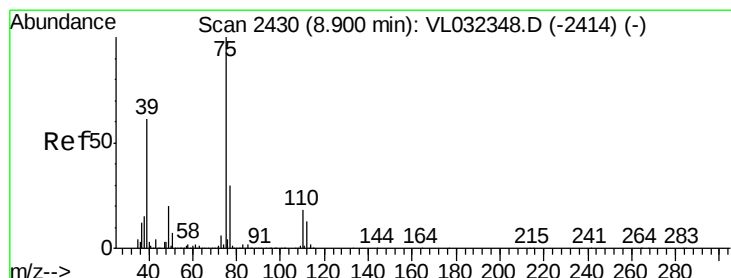
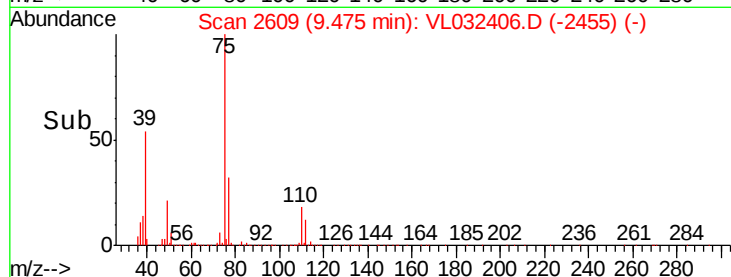
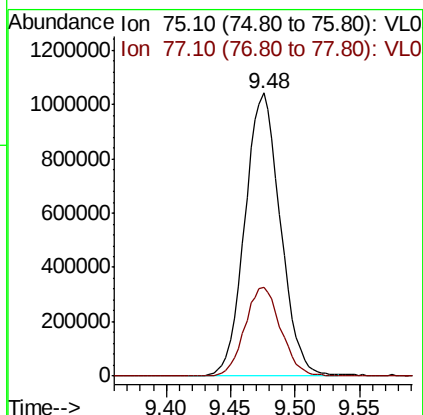
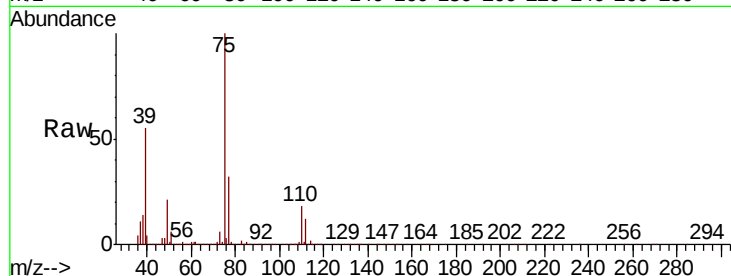




#45
 t-1,3-Dichloropropene
 Concen: 12.876 ppbv
 RT: 9.48 min Scan# 2609
 Delta R.T. -0.01 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

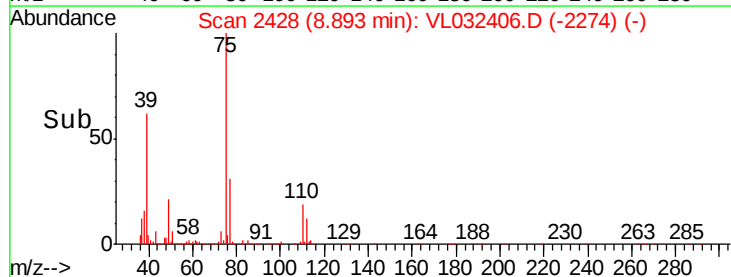
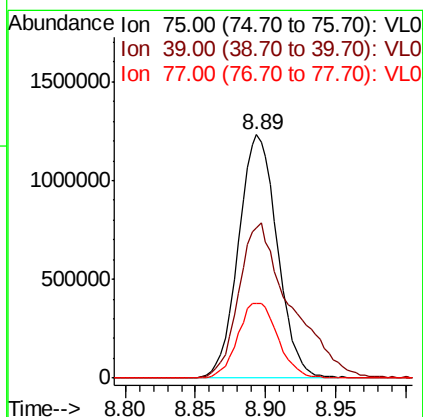
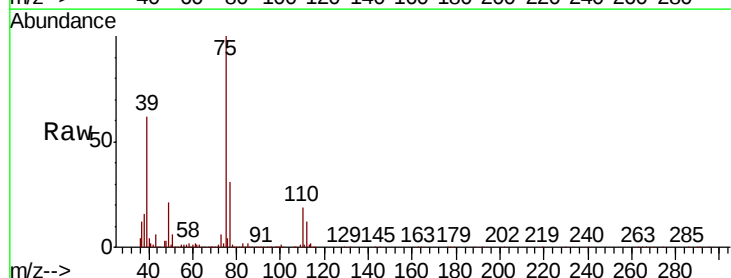
Instrument :
 MSVOA_L
 ClientSampled :

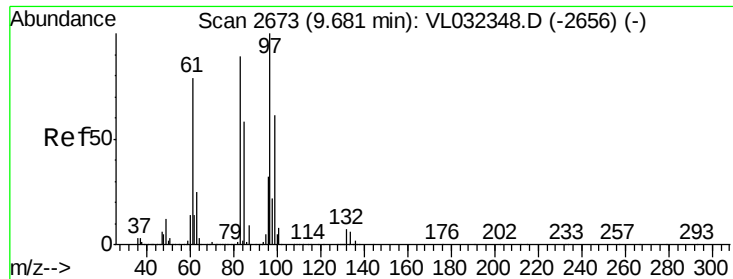
Tot Ion: 75 Resp: 2001997
 Ion Ratio Lower Upper
 75 100
 77 31.6 25.4 38.2



#46
 cis-1,3-Dichloropropene
 Concen: 12.735 ppbv
 RT: 8.89 min Scan# 2428
 Delta R.T. -0.01 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

Tgt Ion: 75 Resp: 2374493
 Ion Ratio Lower Upper
 75 100
 39 61.7 48.5 72.7
 77 30.7 24.3 36.5



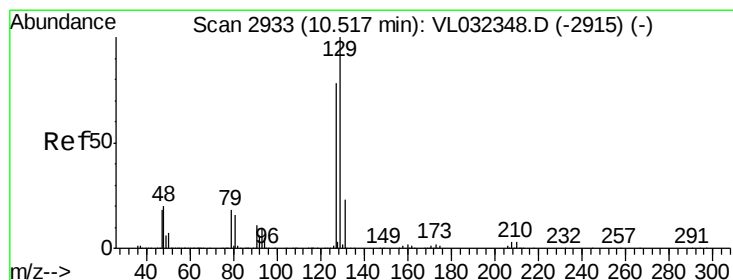
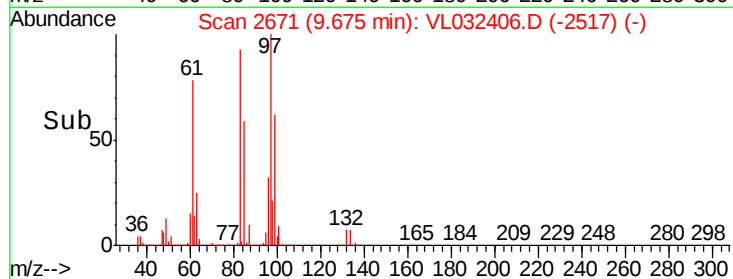
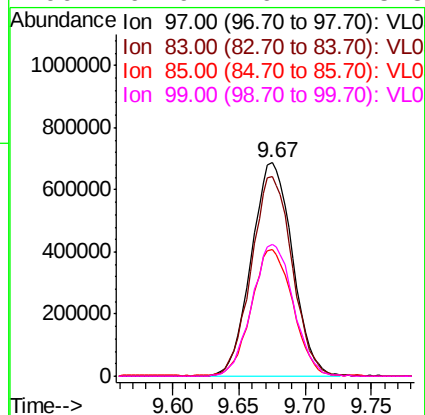
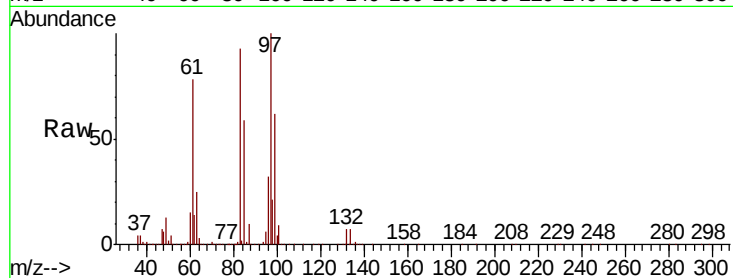


#47
 1,1,2-Trichloroethane
 Concen: 10.494 ppbv
 RT: 9.67 min Scan# 2671
 Delta R.T. -0.01 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 97 Resp: 1488501

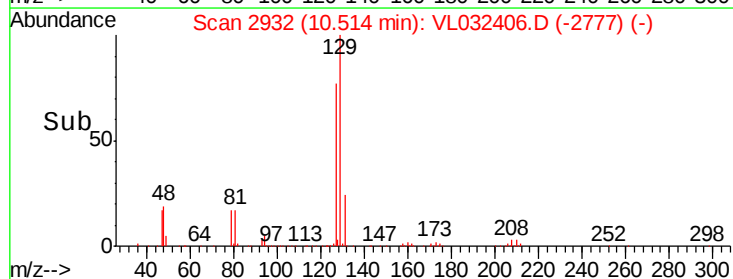
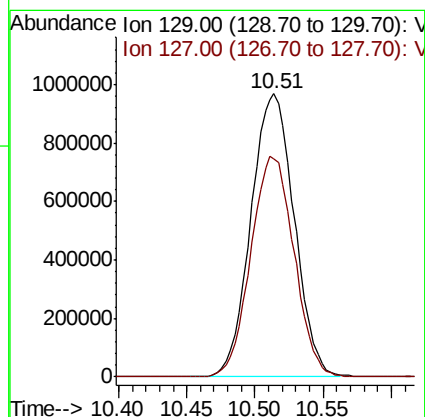
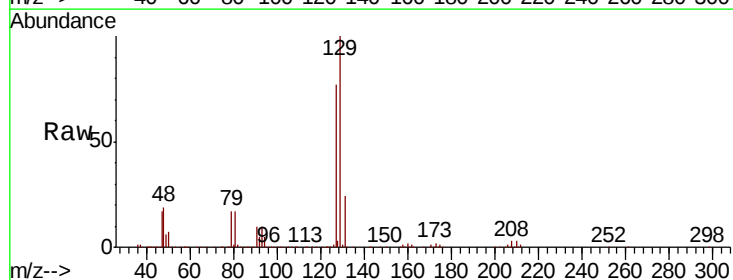
Ion	Ratio	Lower	Upper
97	100		
83	93.2	71.2	106.8
85	58.9	46.6	69.8
99	61.9	49.2	73.8

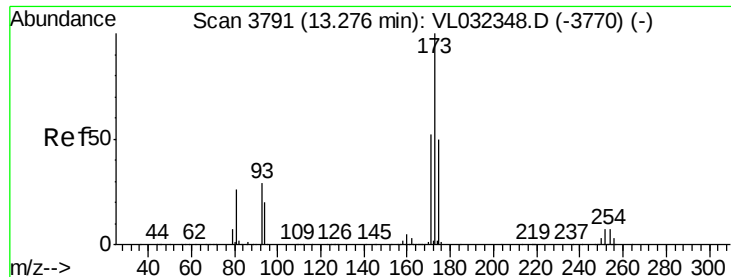


#48
 Dibromochloromethane
 Concen: 11.230 ppbv
 RT: 10.51 min Scan# 2932
 Delta R.T. -0.00 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

Tgt Ion: 129 Resp: 2129430

Ion	Ratio	Lower	Upper
129	100		
127	78.0	39.3	117.9





#49

Bromoform

Concen: 11.666 ppbv

RT: 13.27 min Scan# 3788

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

ClientSampleId :

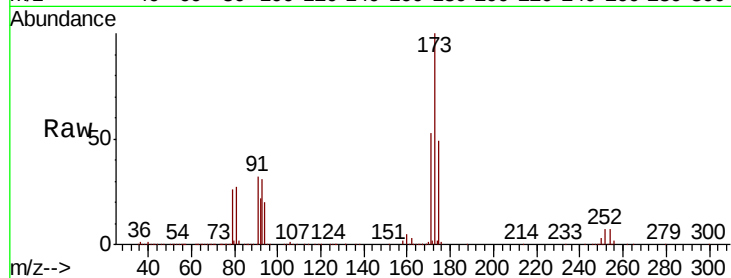
Tot Ion:173 Resp: 1837500

Ion Ratio Lower Upper

173 100

175 48.4 39.3 58.9

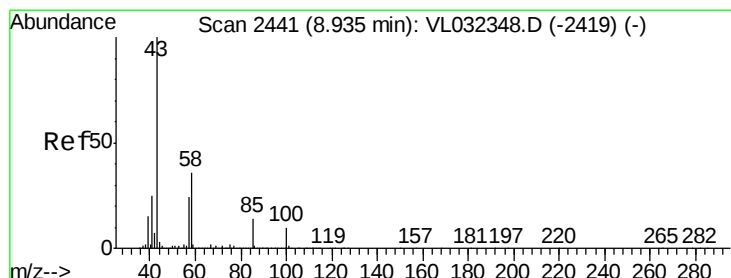
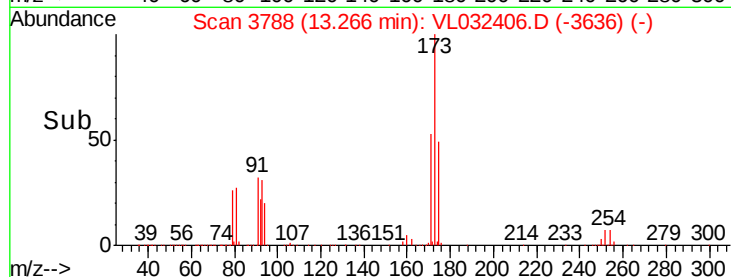
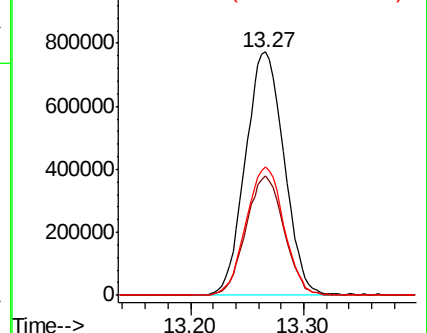
171 52.0 41.9 62.9



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: 11.415 ppbv

RT: 8.93 min Scan# 2439

Delta R.T. -0.01 min

Lab File: VL032406.D

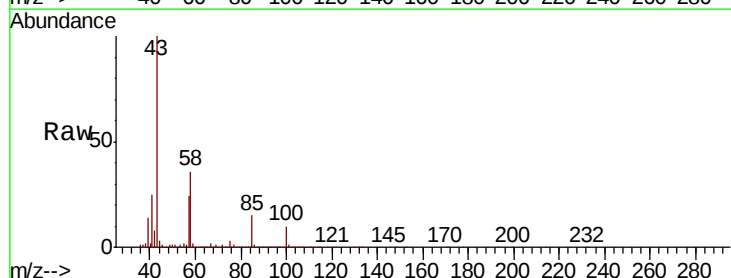
Acq: 20 Aug 2018 14:05

Tgt Ion: 43 Resp: 4082867

Ion Ratio Lower Upper

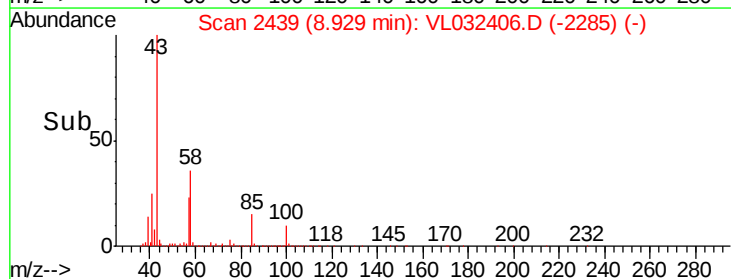
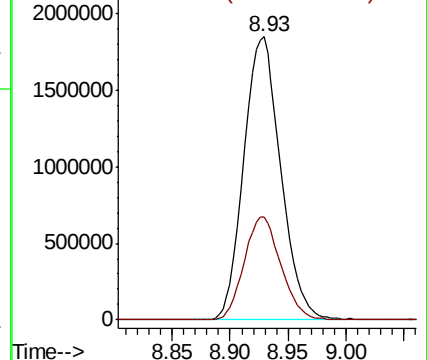
43 100

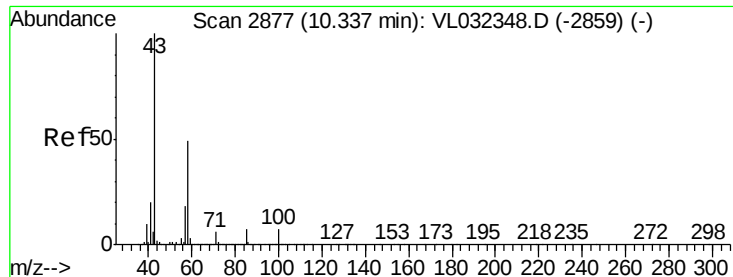
58 36.2 28.9 43.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

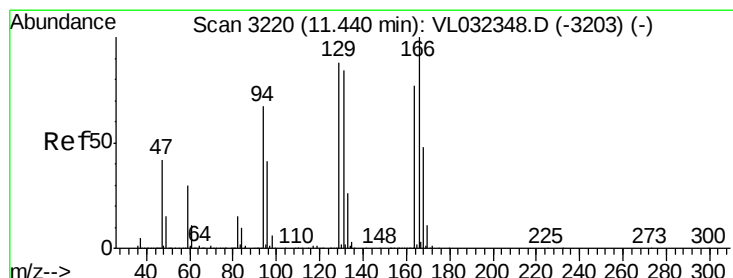
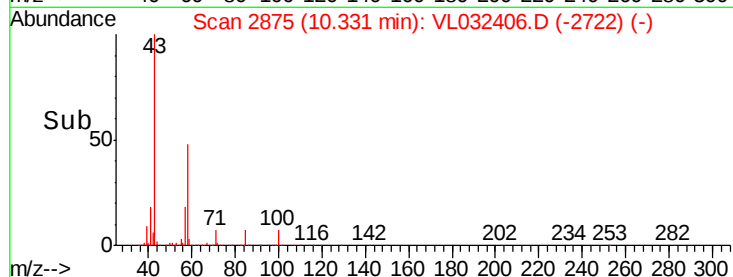
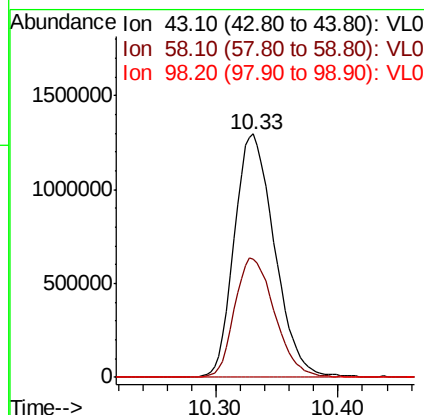
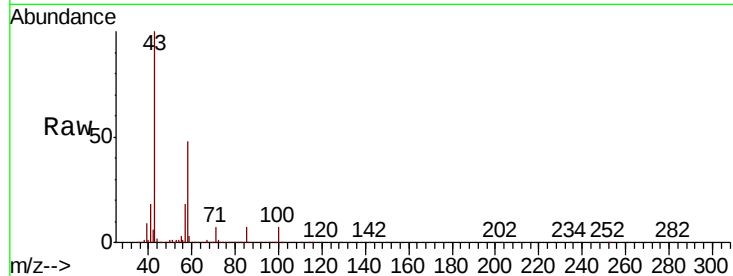




#51
2-Hexanone
Concen: 11.787 ppbv
RT: 10.33 min Scan# 2875
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

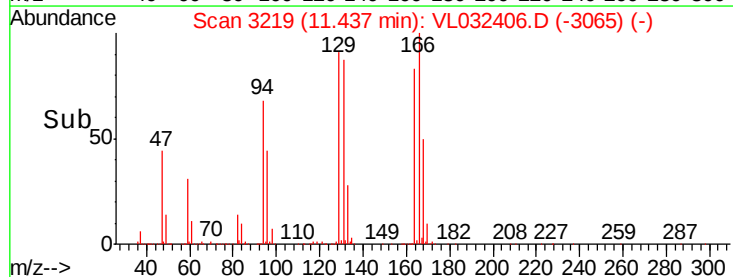
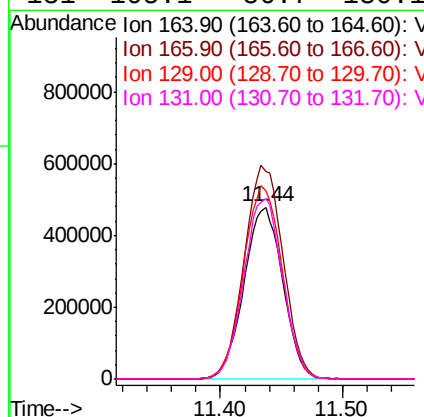
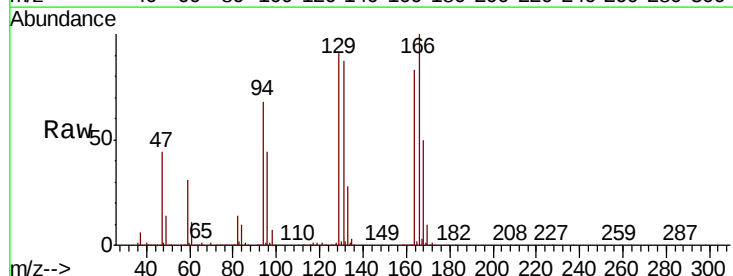
Instrument :
MSVOA_L
ClientSampleId :

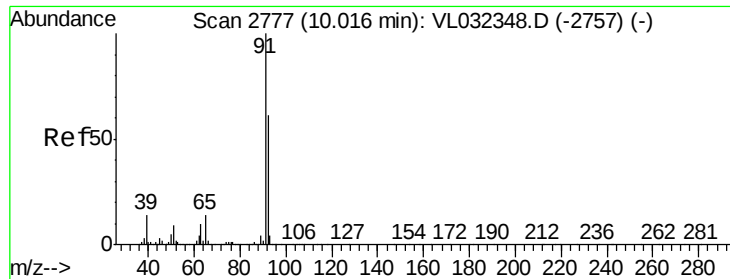
Tot Ion: 43 Resp: 2960672
Ion Ratio Lower Upper
43 100
58 49.0 39.5 59.3
98 0.3 0.3 0.5#



#52
Tetrachloroethene
Concen: 11.511 ppbv
RT: 11.44 min Scan# 3219
Delta R.T. -0.00 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

Tgt Ion:164 Resp: 1047325
Ion Ratio Lower Upper
164 100
166 120.8 103.5 155.3
129 109.7 90.9 136.3
131 105.1 86.7 130.1





#53

Toluene

Concen: 12.138 ppbv

RT: 10.01 min Scan# 2774

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

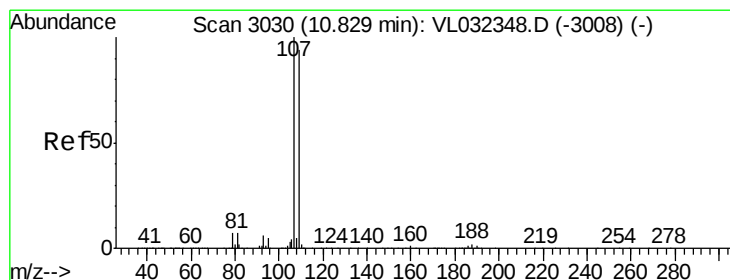
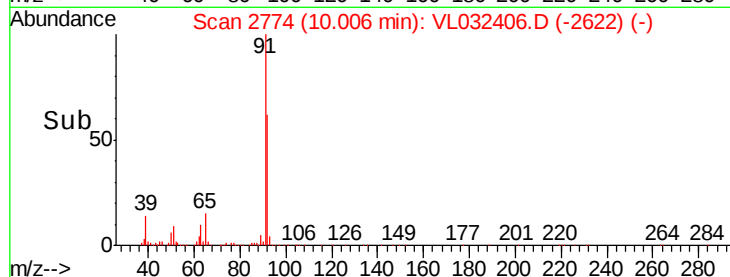
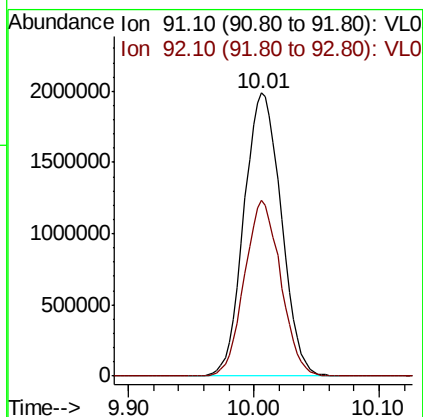
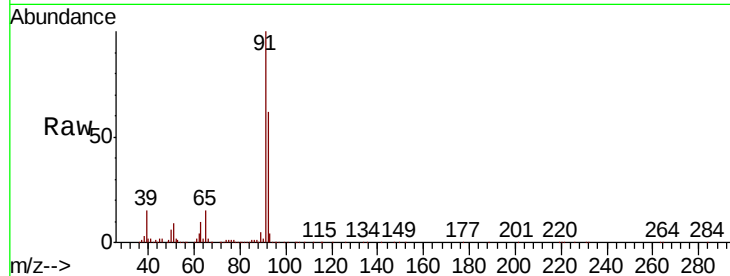
ClientSampled :

Tot Ion: 91 Resp: 4104856

Ion Ratio Lower Upper

91 100

92 60.5 48.7 73.1



#54

1,2-Dibromoethane

Concen: 10.778 ppbv

RT: 10.82 min Scan# 3027

Delta R.T. -0.01 min

Lab File: VL032406.D

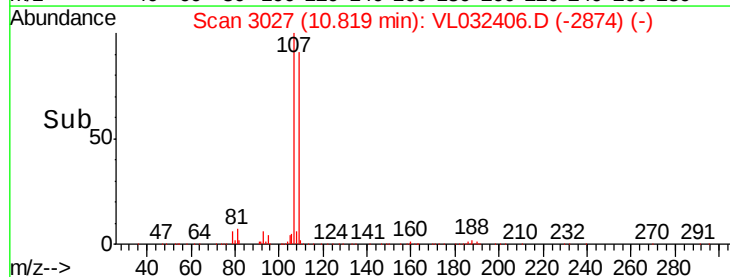
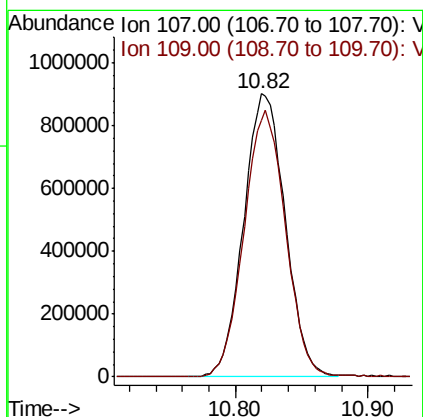
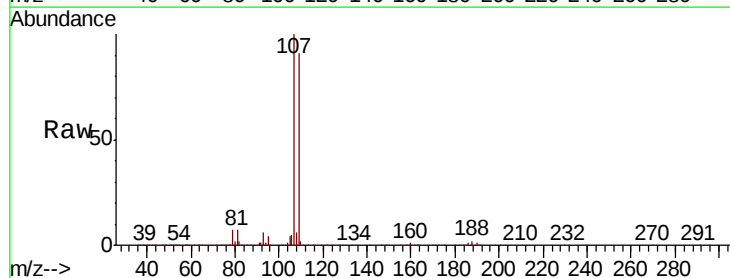
Acq: 20 Aug 2018 14:05

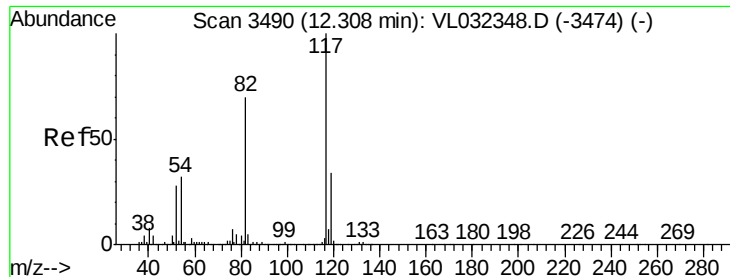
Tgt Ion: 107 Resp: 1963610

Ion Ratio Lower Upper

107 100

109 90.5 74.9 112.3

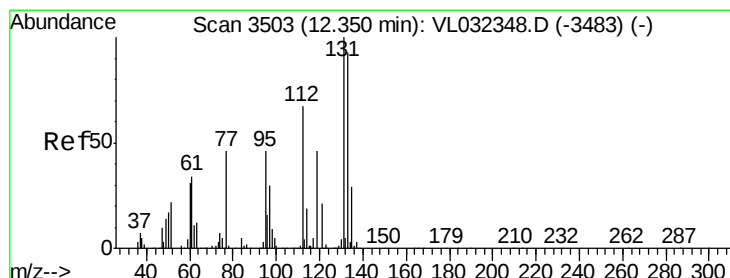
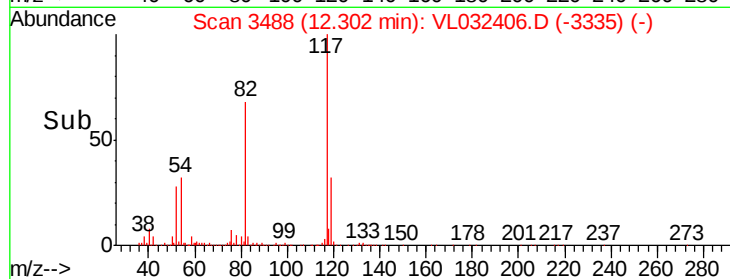
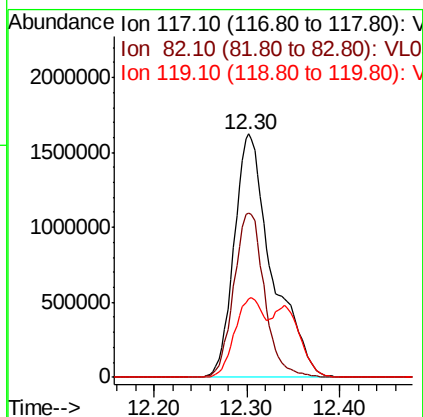
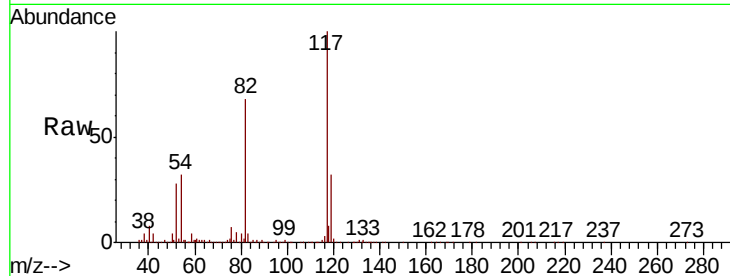




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.30 min Scan# 3488
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

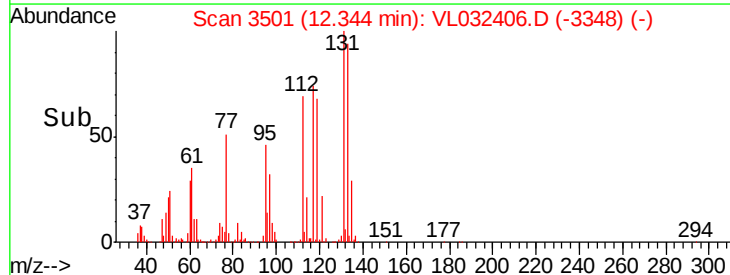
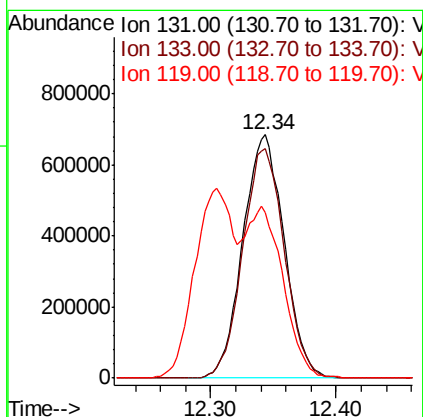
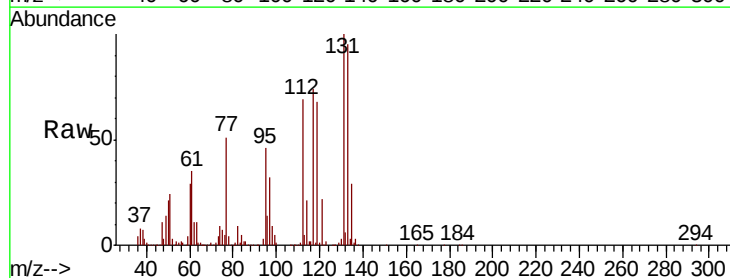
Instrument :
MSVOA_L
ClientSampleId :

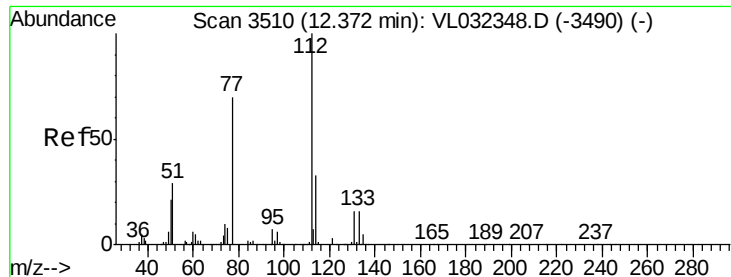
Tot Ion:117 Resp: 4601047
Ion Ratio Lower Upper
117 100
82 54.9 55.1 82.7#
119 28.0 46.0 69.0#



#56
1,1,1,2-Tetrachloroethane
Concen: 8.235 ppbv
RT: 12.34 min Scan# 3501
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

Tgt Ion:131 Resp: 1567435
Ion Ratio Lower Upper
131 100
133 95.1 75.7 113.5
119 56.8 116.0 174.0#

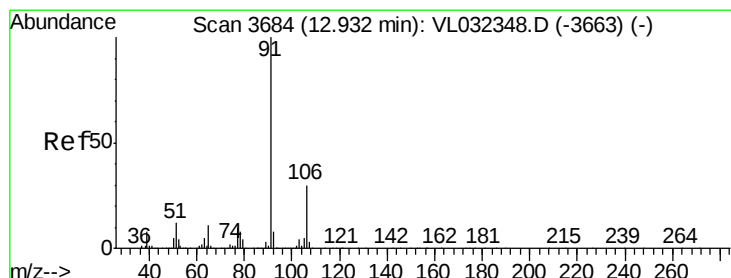
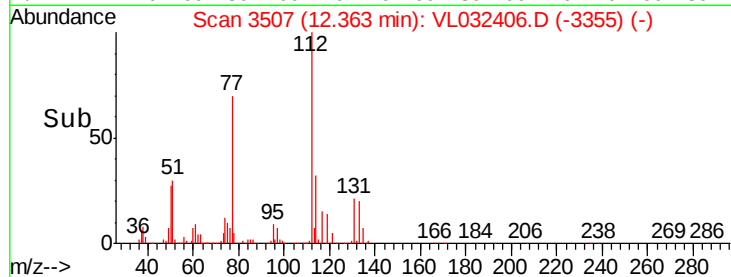
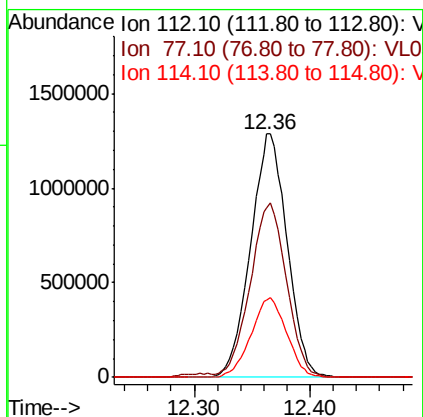
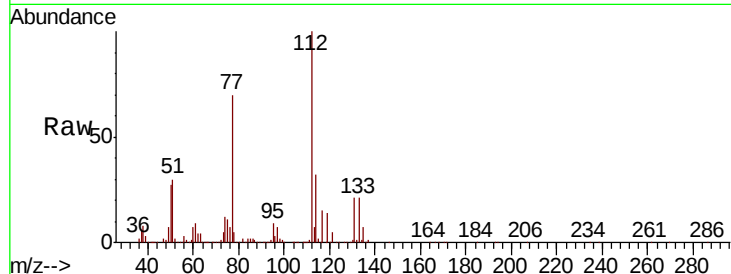




#57
Chlorobenzene
Concen: 8.119 ppbv
RT: 12.36 min Scan# 3507
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

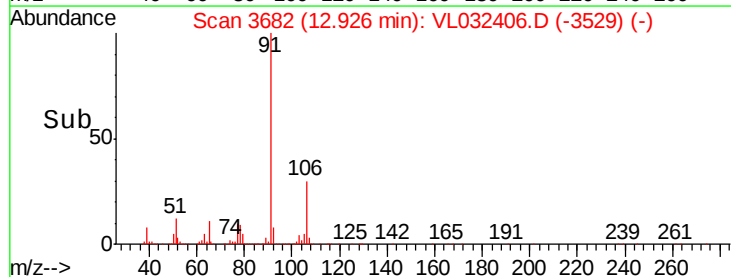
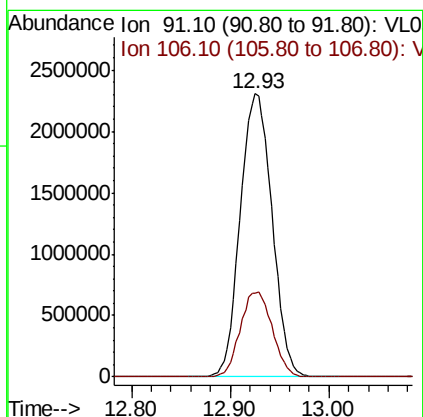
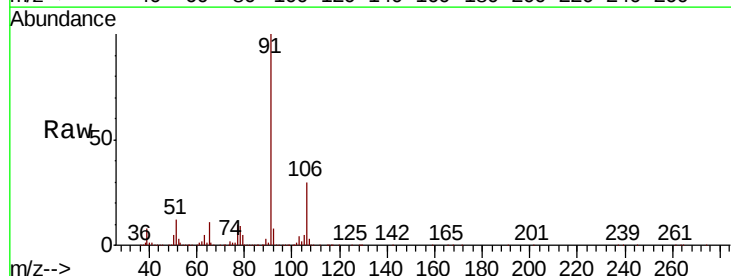
Instrument :
MSVOA_L
ClientSampleId :

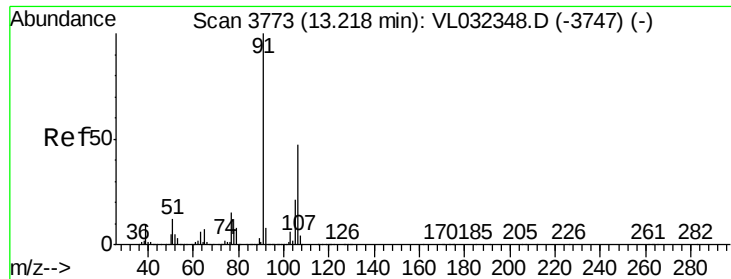
Tot Ion:112 Resp: 2812025
Ion Ratio Lower Upper
112 100
77 69.4 56.6 84.8
114 31.7 29.4 36.0



#58
Ethyl Benzene
Concen: 9.305 ppbv
RT: 12.93 min Scan# 3682
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

Tgt Ion: 91 Resp: 5151038
Ion Ratio Lower Upper
91 100
106 29.7 24.3 36.5

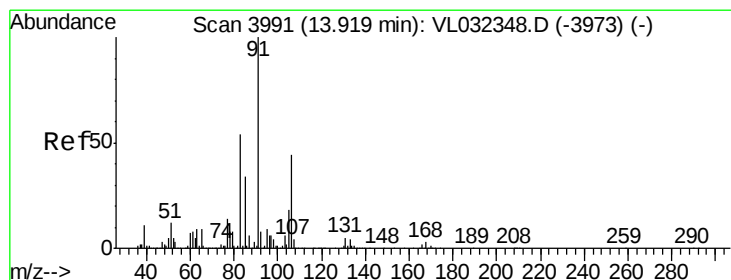
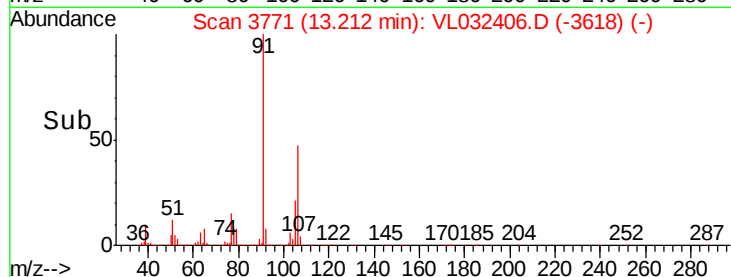
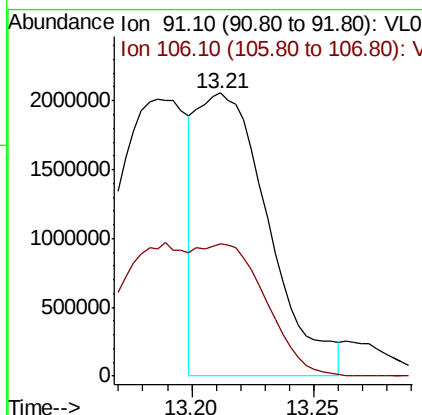
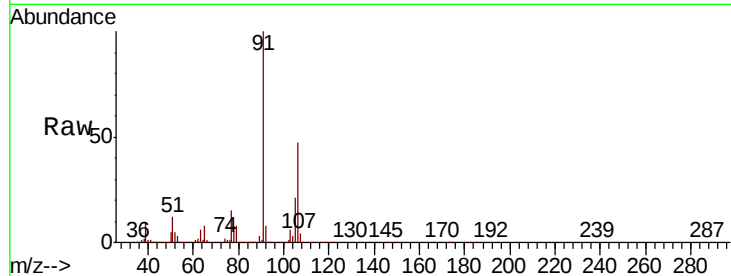




#59
m/p-Xylene
Concen: 8.902 ppbv
RT: 13.21 min Scan# 3771
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

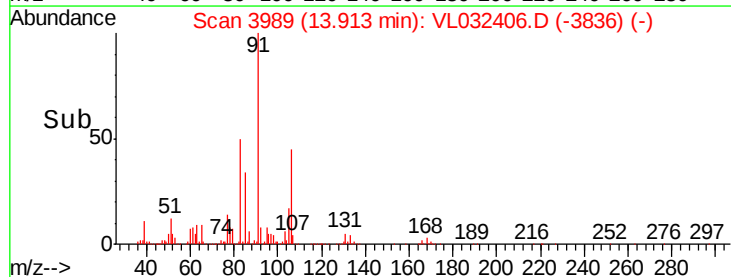
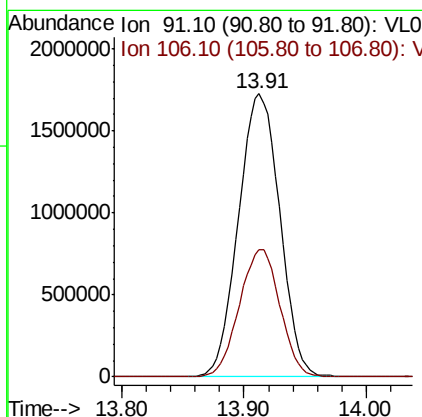
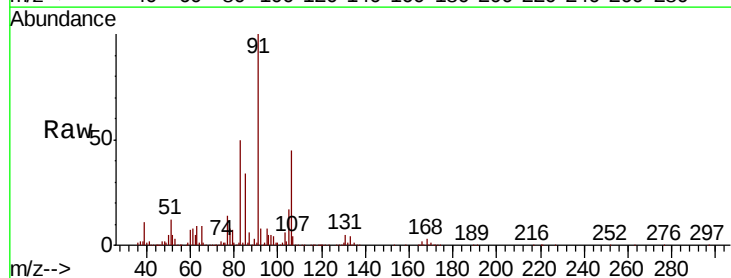
Instrument :
MSVOA_L
ClientSampleId :

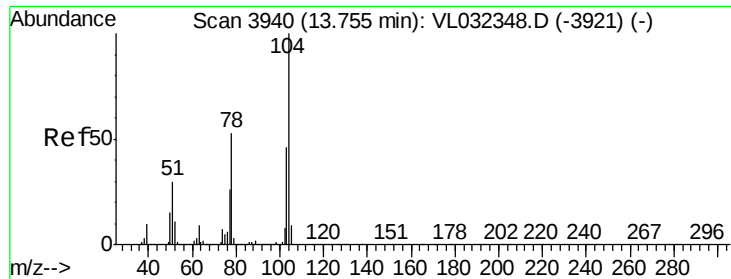
Tot Ion: 91 Resp: 4186249
Ion Ratio Lower Upper
91 100
106 0.0 37.0 55.4#



#60
o-Xylene
Concen: 8.739 ppbv
RT: 13.91 min Scan# 3989
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

Tgt Ion: 91 Resp: 4039294
Ion Ratio Lower Upper
91 100
106 44.4 22.3 66.8

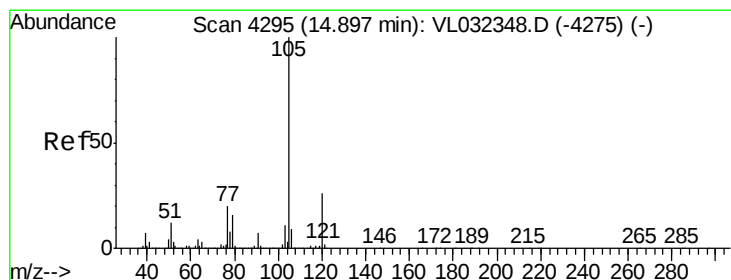
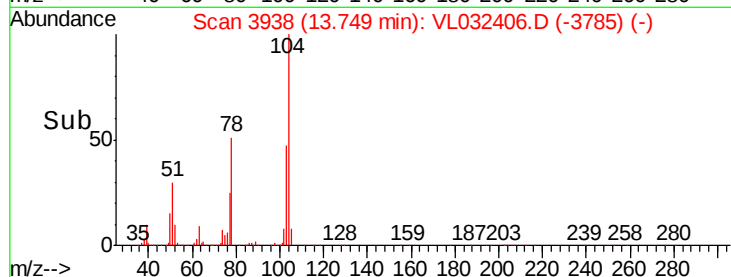
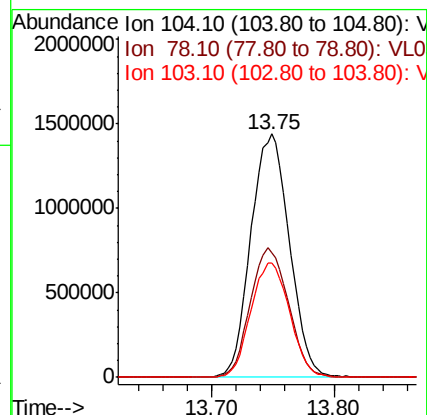
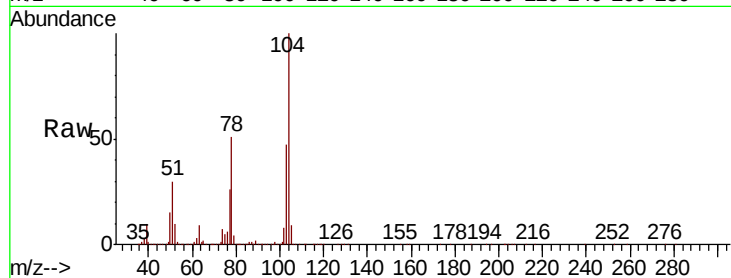




#61
Stvrene
Concen: 9.716 ppbv
RT: 13.75 min Scan# 3938
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

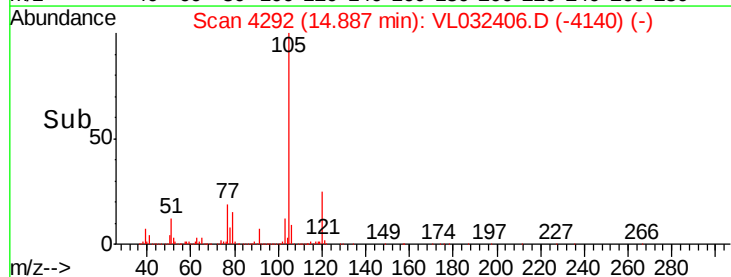
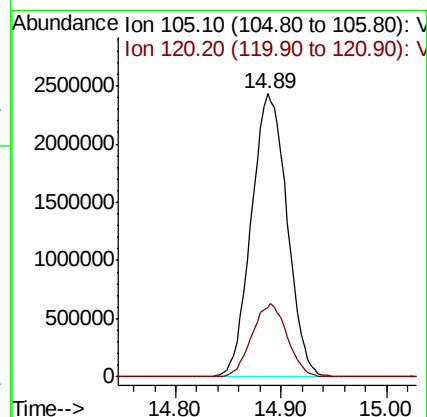
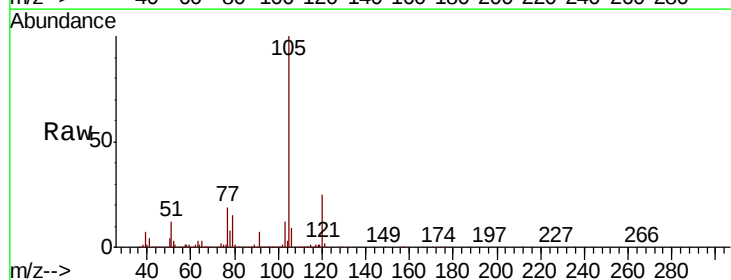
Instrument :
MSVOA_L
ClientSampleId :

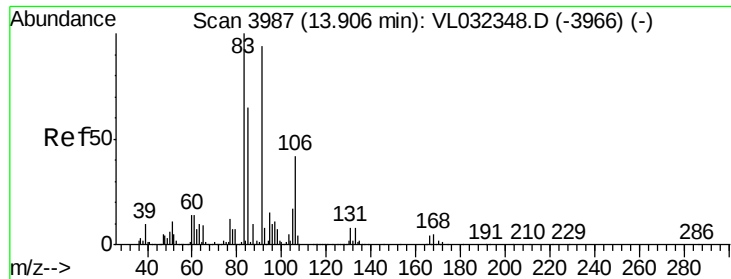
Tot Ion:104 Resp: 3138658
Ion Ratio Lower Upper
104 100
78 52.9 42.6 64.0
103 47.4 38.0 57.0



#62
Isopropylbenzene
Concen: 8.722 ppbv
RT: 14.89 min Scan# 4292
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

Tgt Ion:105 Resp: 5738175
Ion Ratio Lower Upper
105 100
120 25.5 20.6 30.8





#63

1,1,2,2-Tetrachloroethane

Concen: 7.882 ppbv

RT: 13.90 min Scan# 3985

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

ClientSampleId :

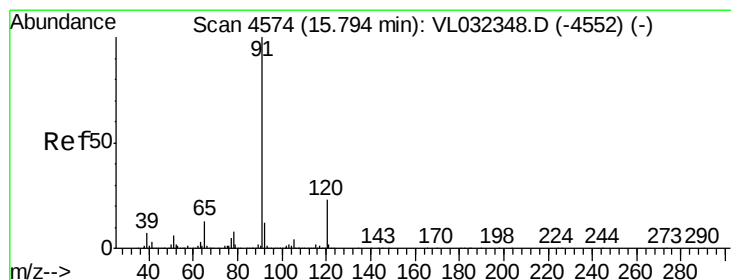
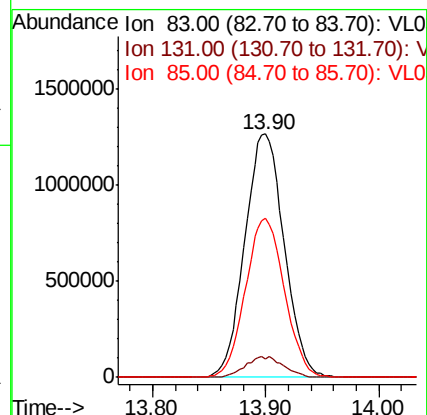
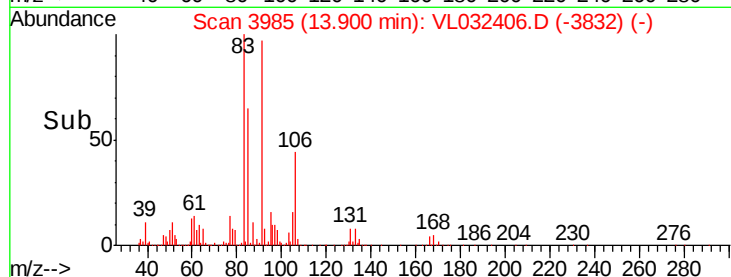
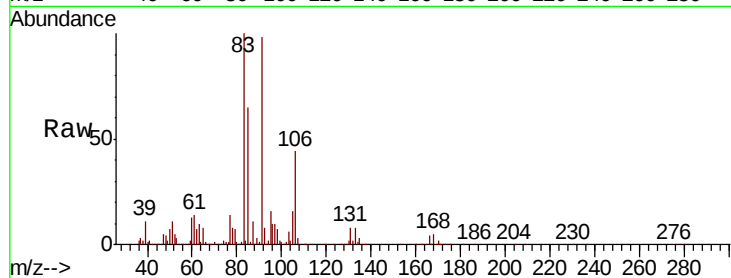
Tot Ion: 83 Resp: 3063219

Ion	Ratio	Lower	Upper
83	100		
131	8.4	4.3	12.8
85	65.0	32.4	97.2

83 100

131 8.4 4.3 12.8

85 65.0 32.4 97.2



#64

n-propylbenzene

Concen: 8.932 ppbv

RT: 15.78 min Scan# 4571

Delta R.T. -0.01 min

Lab File: VL032406.D

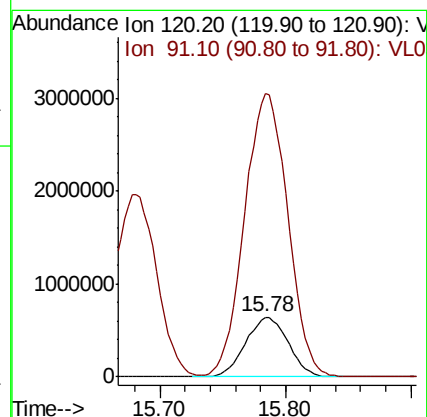
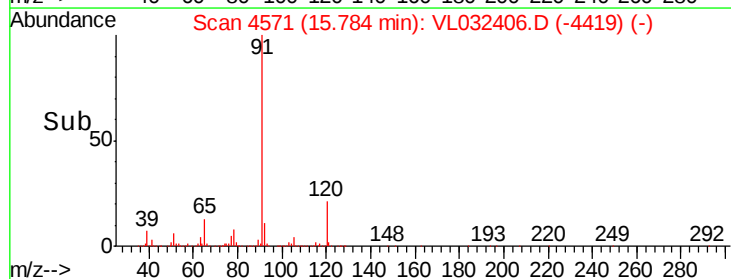
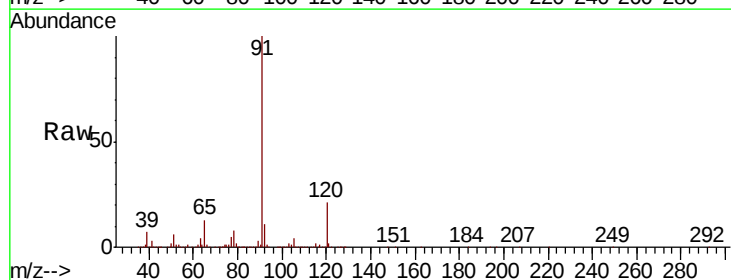
Acq: 20 Aug 2018 14:05

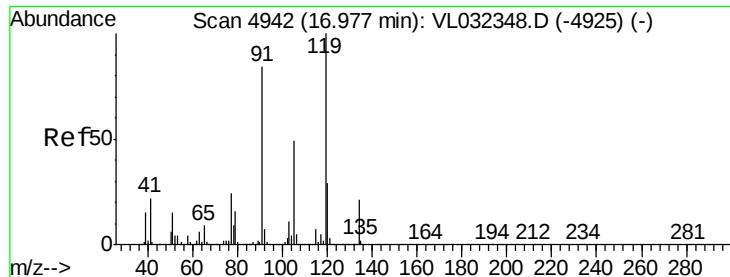
Tgt Ion: 120 Resp: 1520901

Ion	Ratio	Lower	Upper
120	100		
91	482.2	382.2	573.2

120 100

91 482.2 382.2 573.2





#65

tert-Butylbenzene

Concen: 8.508 ppbv

RT: 16.97 min Scan# 4940

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

ClientSampleId :

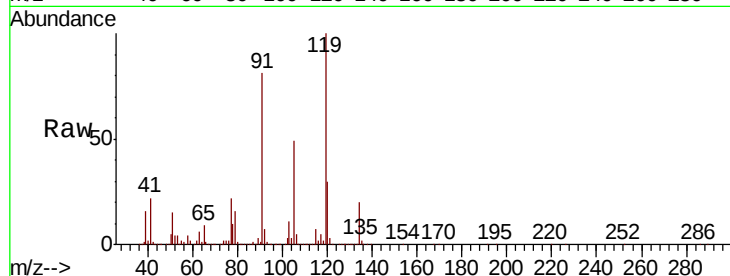
Tot Ion:119 Resp: 4781469

Ion Ratio Lower Upper

119 100

91 83.9 67.4 101.0

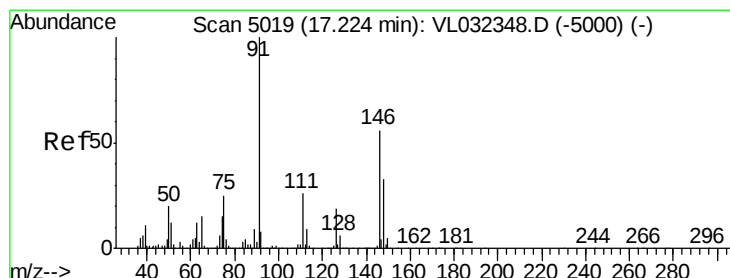
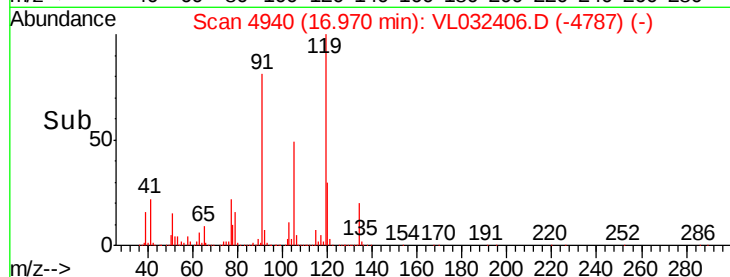
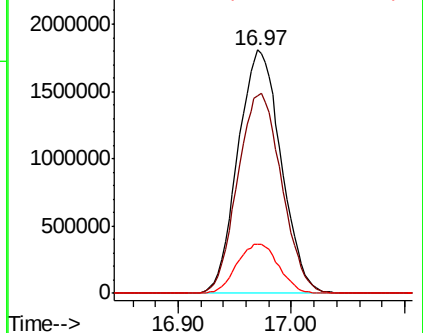
134 19.7 15.8 23.6



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 9.755 ppbv

RT: 17.22 min Scan# 5018

Delta R.T. -0.00 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

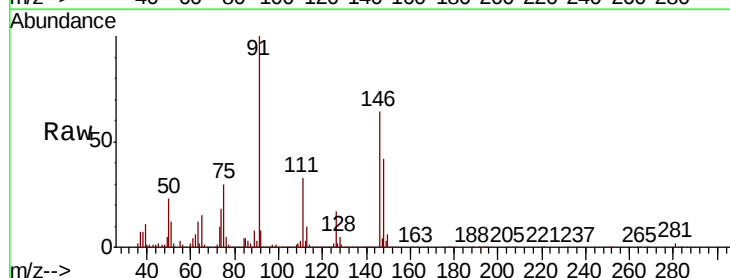
Tgt Ion: 91 Resp: 3245999

Ion Ratio Lower Upper

91 100

126 17.3 14.2 21.4

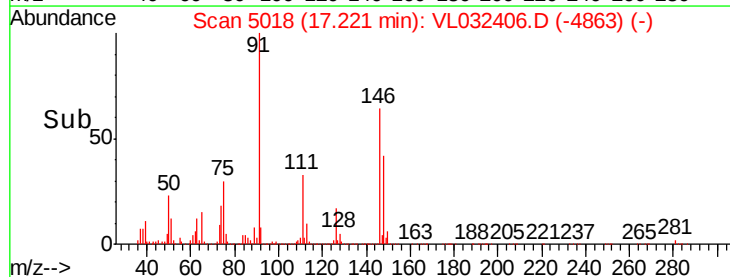
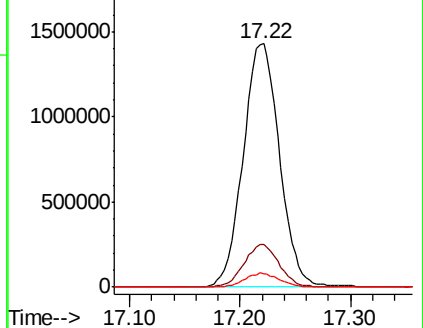
128 5.5 4.5 6.7

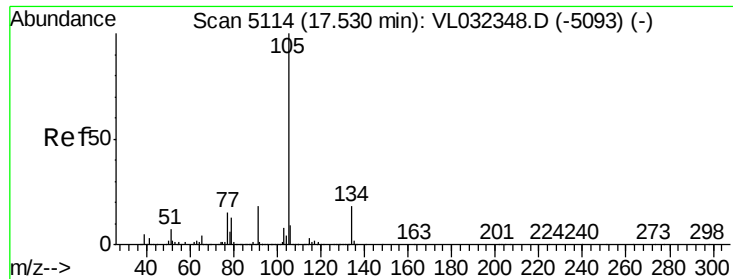


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.813 ppbv

RT: 17.52 min Scan# 5111

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

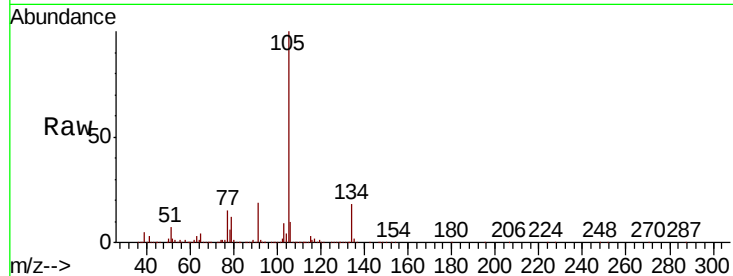
ClientSampleId :

Tot Ion:105 Resp: 7364983

Ion Ratio Lower Upper

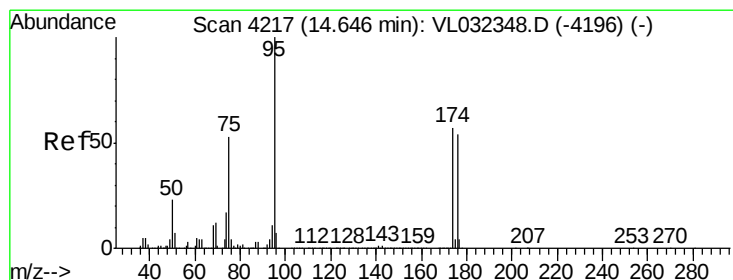
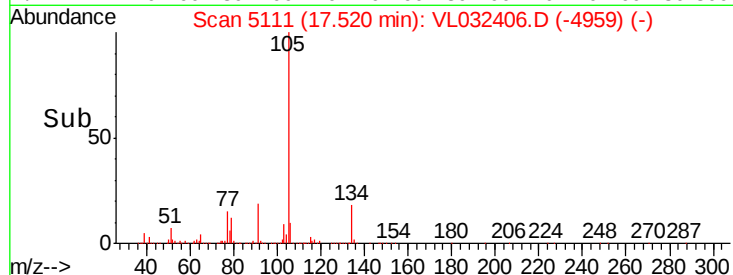
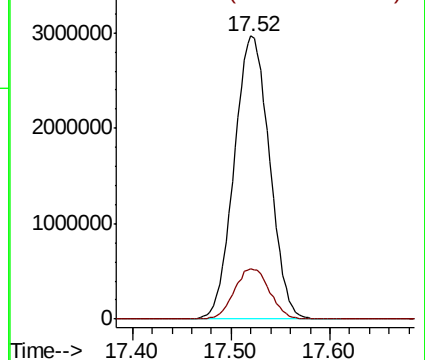
105 100

134 17.8 14.4 21.6



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: 8.130 ppbv

RT: 14.64 min Scan# 4216

Delta R.T. -0.00 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

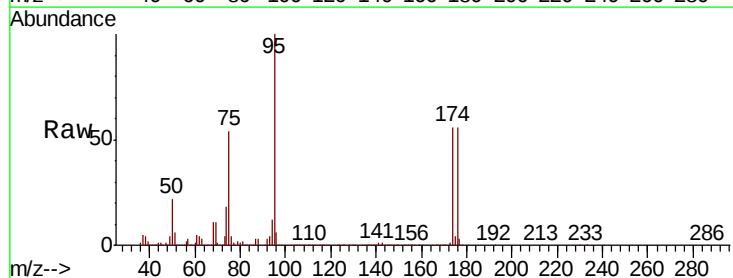
Tgt Ion: 95 Resp: 2854018

Ion Ratio Lower Upper

95 100

174 58.0 46.2 69.4

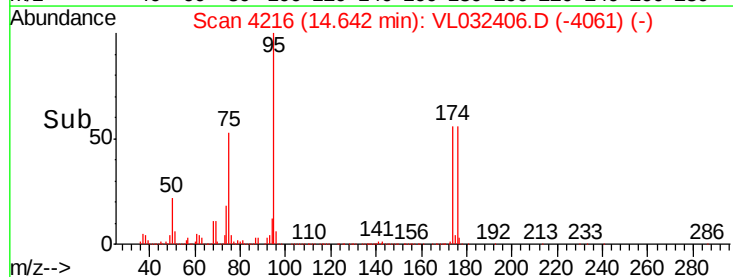
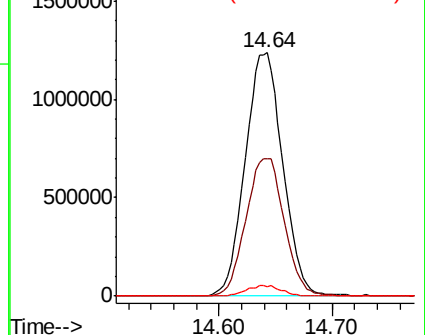
175 4.1 3.4 5.0

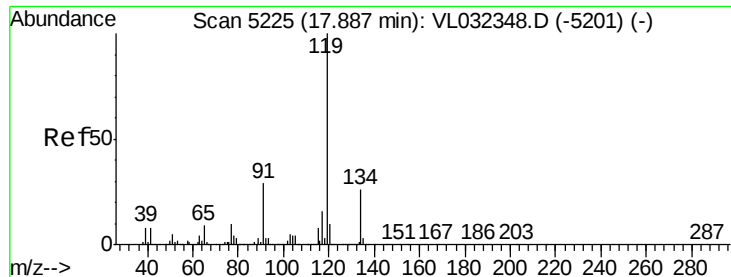


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

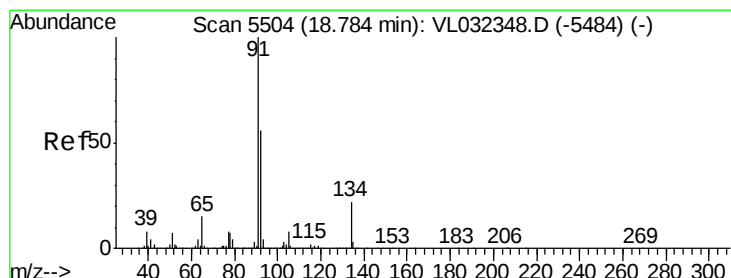
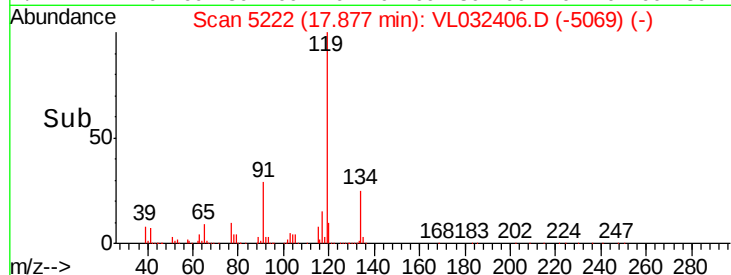
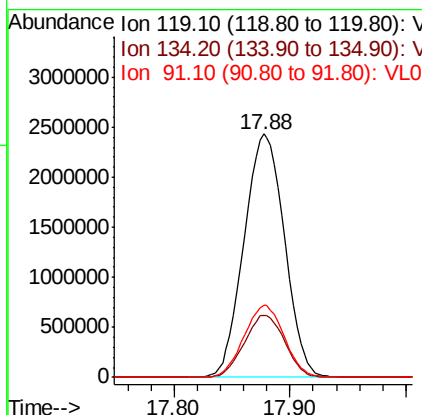
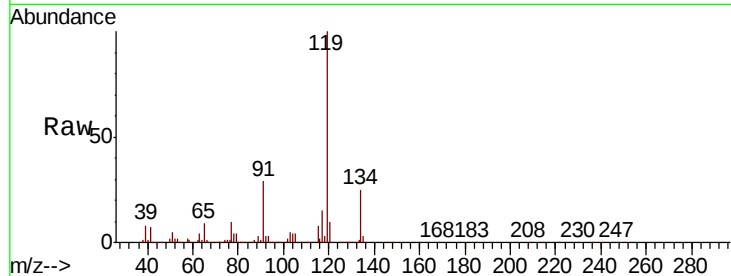




#69
 p-Isopropyltoluene
 Concen: 9.221 ppbv
 RT: 17.88 min Scan# 5222
 Delta R.T. -0.01 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

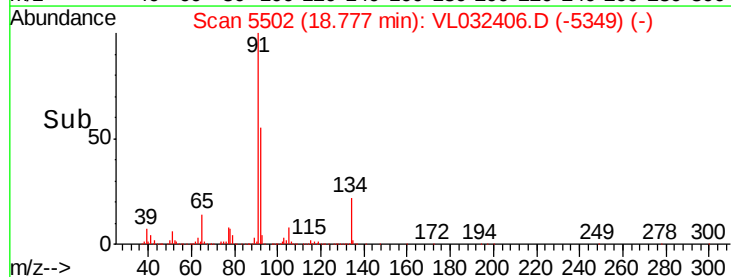
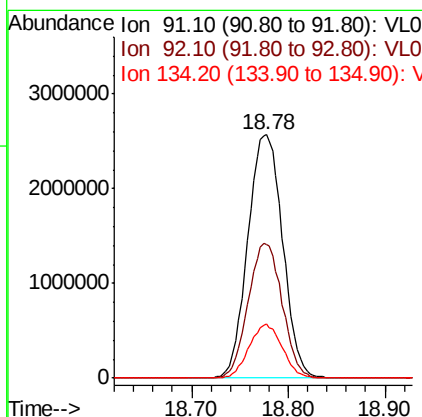
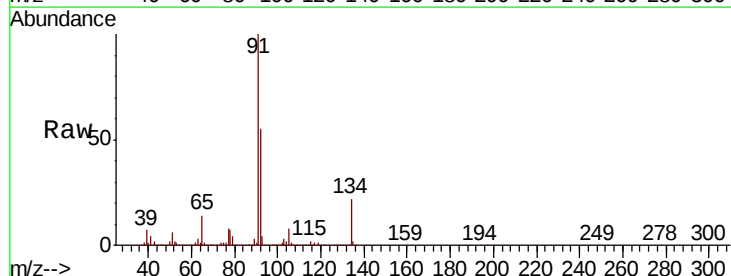
Instrument :
 MSVOA_L
 ClientSampleId :

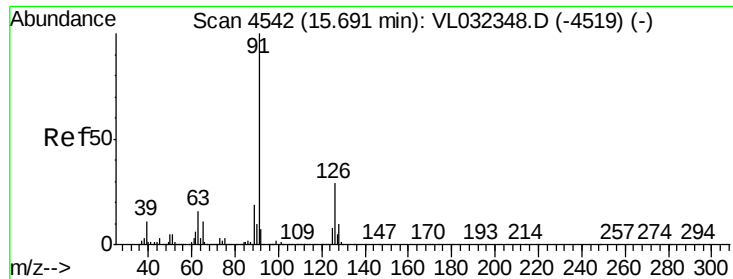
Tot Ion:119 Resp: 5897929
 Ion Ratio Lower Upper
 119 100
 134 25.5 20.4 30.6
 91 29.4 23.6 35.4



#70
 n-Butylbenzene
 Concen: 9.154 ppbv
 RT: 18.78 min Scan# 5502
 Delta R.T. -0.01 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

Tgt Ion: 91 Resp: 6419008
 Ion Ratio Lower Upper
 91 100
 92 54.2 43.9 65.9
 134 21.3 17.3 25.9





#71

2-Chlorotoluene

Concen: 9.045 ppbv

RT: 15.68 min Scan# 4539

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

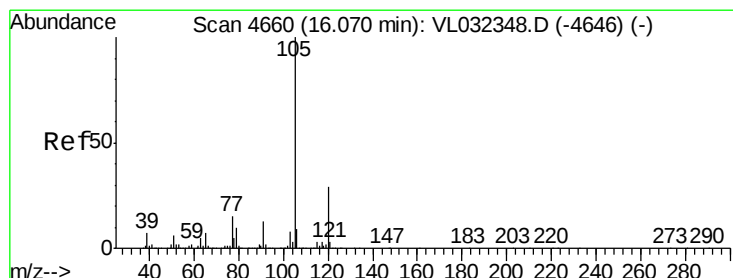
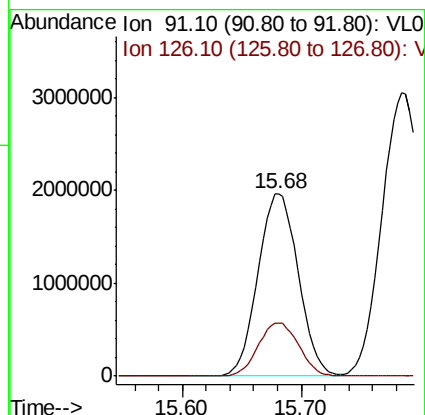
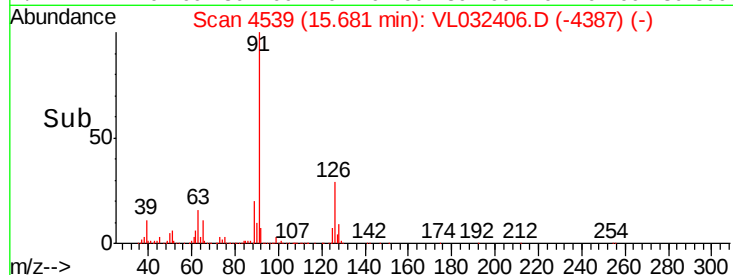
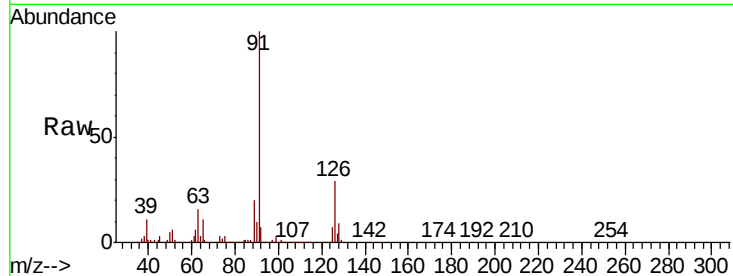
ClientSampleId :

Tot Ion: 91 Resp: 4605905

Ion Ratio Lower Upper

91 100

126 29.4 11.8 47.2



#72

4-Ethyltoluene

Concen: 9.316 ppbv

RT: 16.06 min Scan# 4658

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Tgt Ion: 105 Resp: 4802544

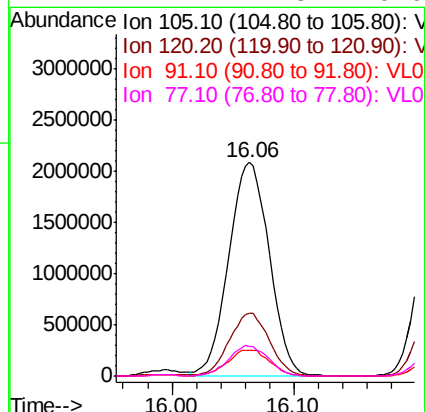
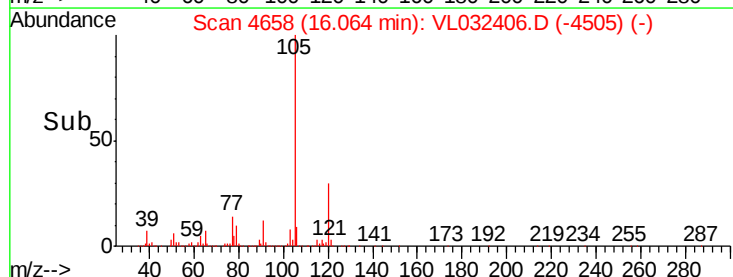
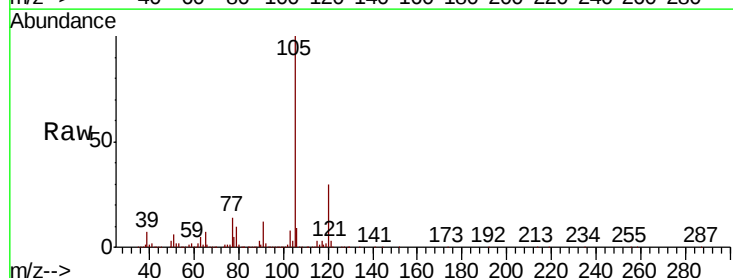
Ion Ratio Lower Upper

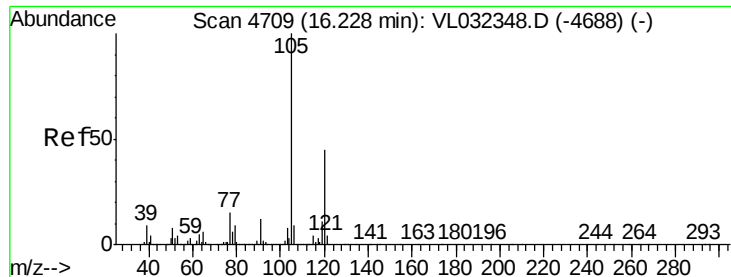
105 100

120 30.0 23.4 35.0

91 12.6 10.0 15.0

77 14.1 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 9.235 ppbv

RT: 16.22 min Scan# 4706

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

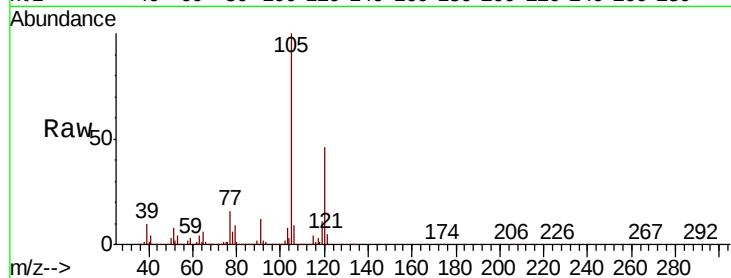
ClientSampled :

Tot Ion:105 Resp: 4579007

Ion Ratio Lower Upper

105 100

120 45.7 36.3 54.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.22

2000000

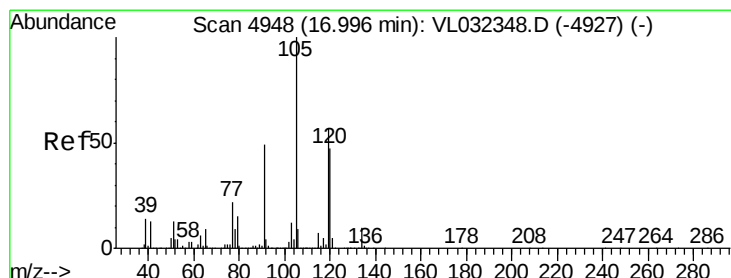
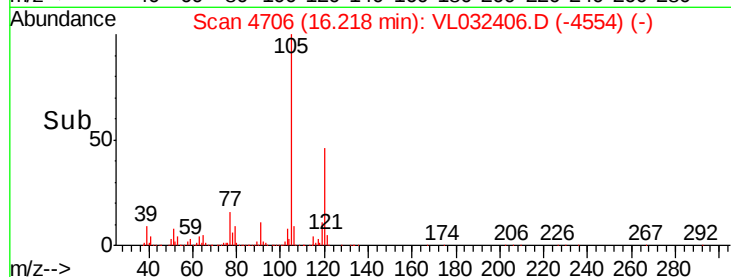
1500000

1000000

500000

0

Time--> 16.10 16.20 16.30



#74

1,2,4-Trimethylbenzene

Concen: 8.546 ppbv

RT: 16.99 min Scan# 4946

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Tgt Ion:105 Resp: 4509088

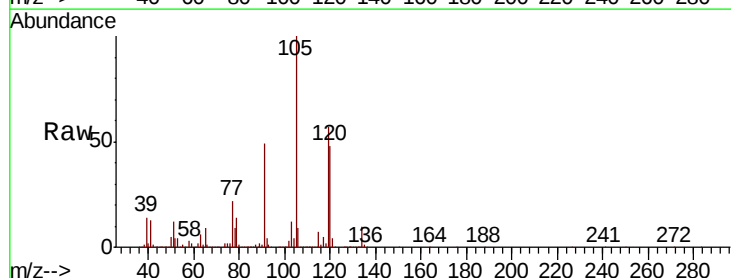
Ion Ratio Lower Upper

105 100

120 48.3 37.6 56.4

91 49.2 39.9 59.9

77 21.7 17.8 26.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

3000000

2500000

2000000

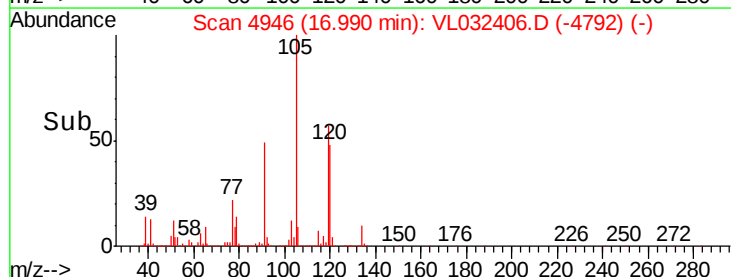
1500000

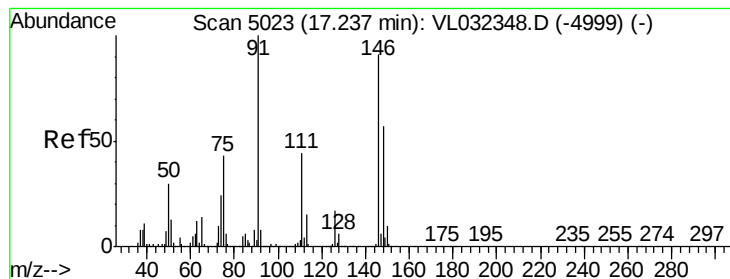
1000000

500000

0

Time--> 16.90 17.00 17.10





#75

1,3-Dichlorobenzene

Concen: 8.166 ppbv

RT: 17.23 min Scan# 5021

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

ClientSampleId :

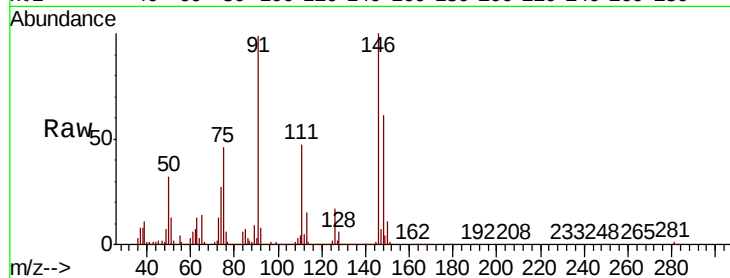
Tot Ion:146 Resp: 2589022

Ion Ratio Lower Upper

146 100

111 49.1 24.6 73.8

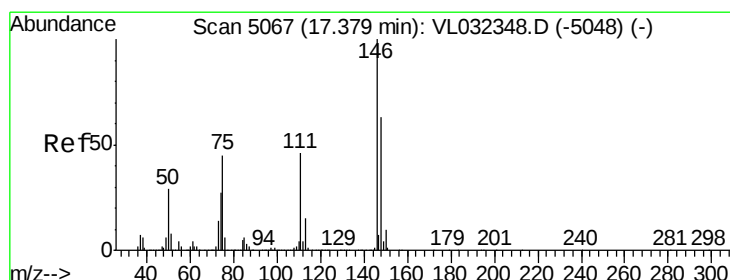
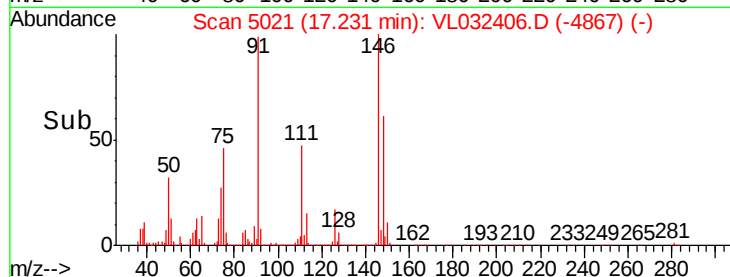
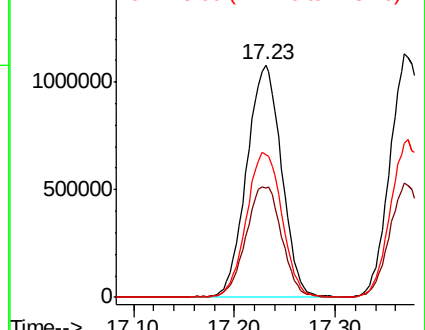
148 63.6 32.0 96.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 8.734 ppbv

RT: 17.37 min Scan# 5064

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

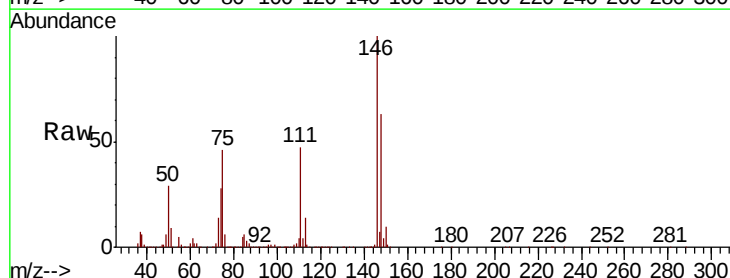
Tgt Ion:146 Resp: 2623228

Ion Ratio Lower Upper

146 100

111 47.4 23.8 71.4

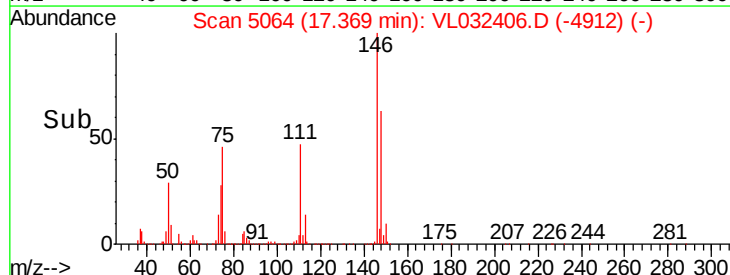
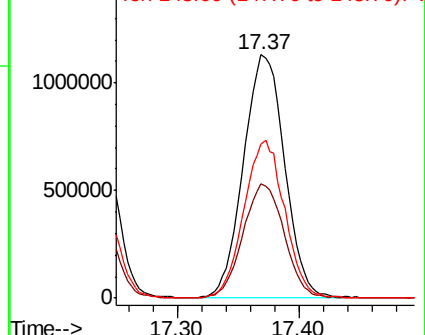
148 64.2 32.2 96.6

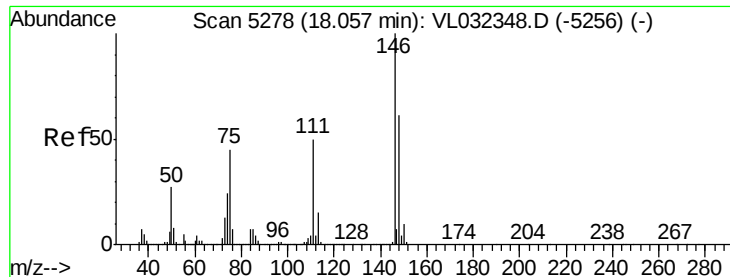


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 8.605 ppbv

RT: 18.05 min Scan# 5276

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

ClientSampled :

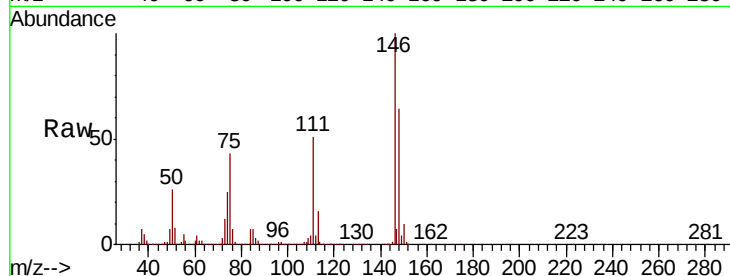
Tot Ion:146 Resp: 2607072

Ion Ratio Lower Upper

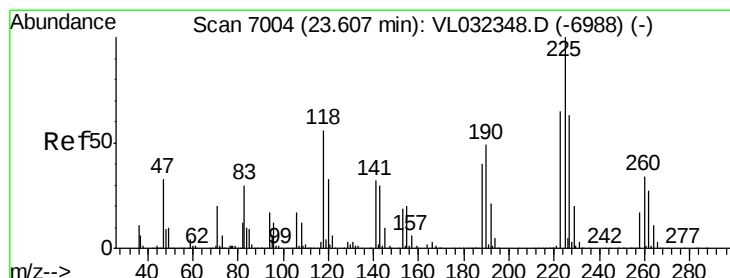
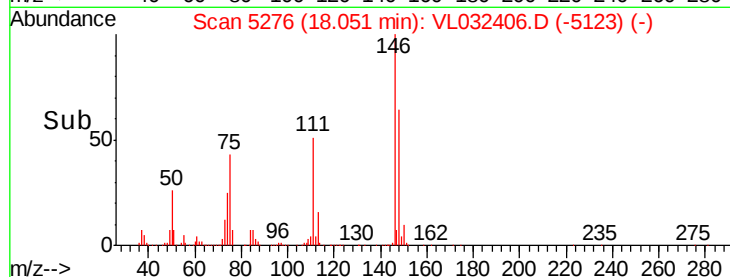
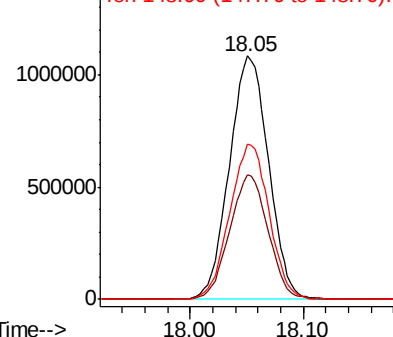
146 100

111 50.2 25.2 75.6

148 64.2 31.8 95.4



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: 7.711 ppbv

RT: 23.60 min Scan# 7003

Delta R.T. -0.00 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

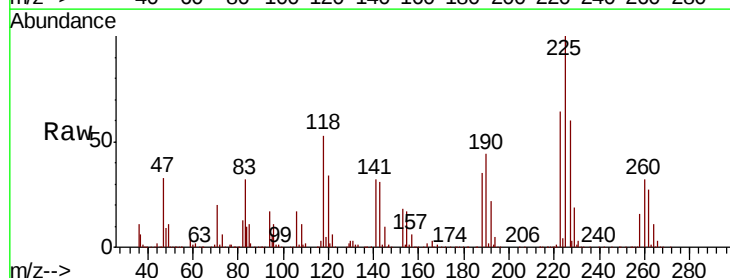
Tgt Ion:225 Resp: 784132

Ion Ratio Lower Upper

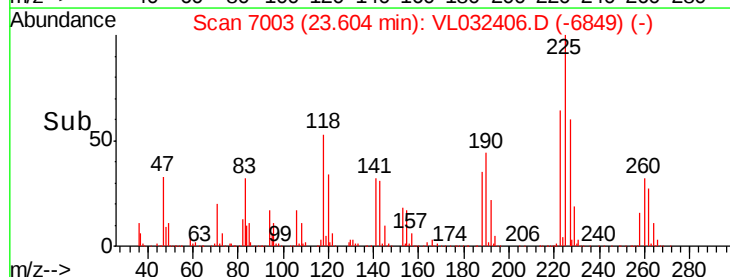
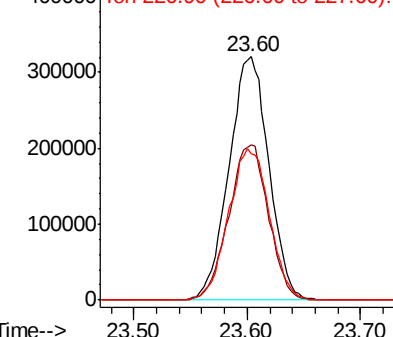
225 100

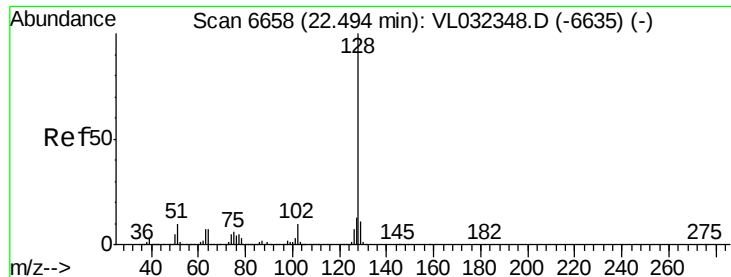
223 64.0 50.6 76.0

227 64.0 51.0 76.6



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: 8.698 ppbv

RT: 22.49 min Scan# 6656

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

ClientSampleId :

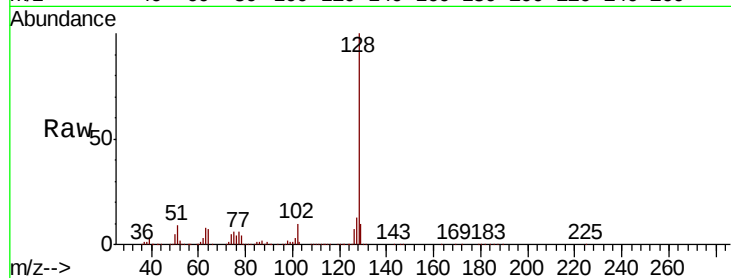
Tot Ion:128 Resp: 4270226

Ion Ratio Lower Upper

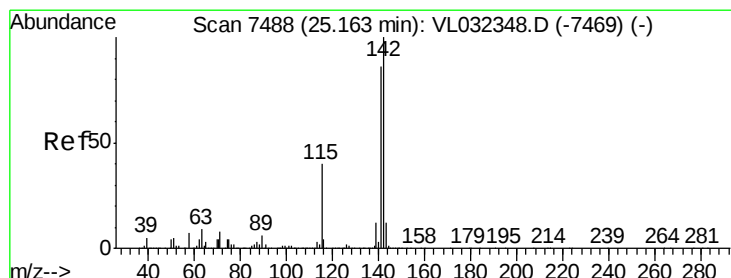
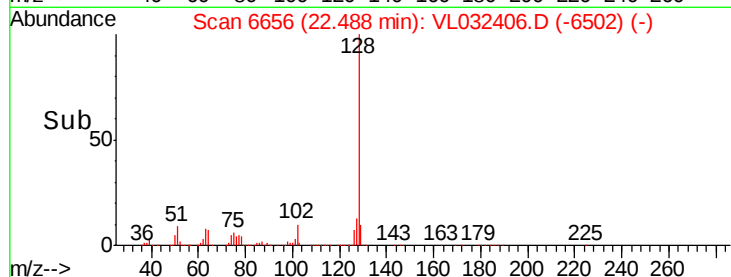
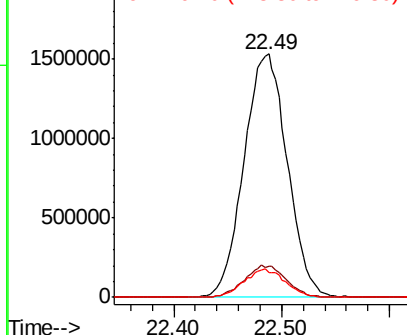
128 100

127 12.7 10.3 15.5

129 10.2 8.6 13.0



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 16.150 ppbv

RT: 25.16 min Scan# 7488

Delta R.T. -0.00 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

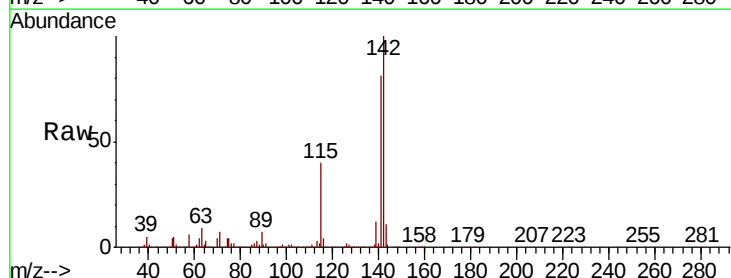
Tgt Ion:142 Resp: 1700044

Ion Ratio Lower Upper

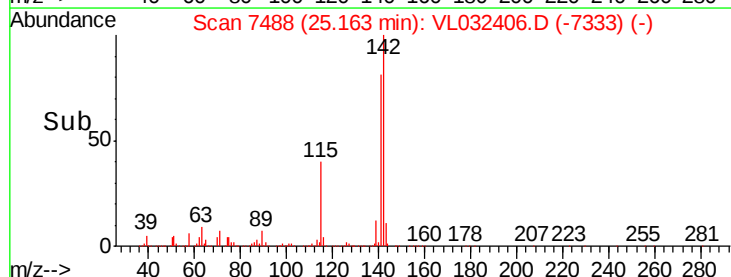
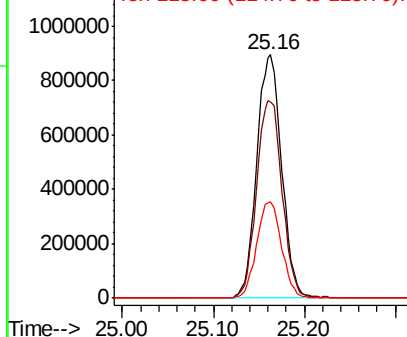
142 100

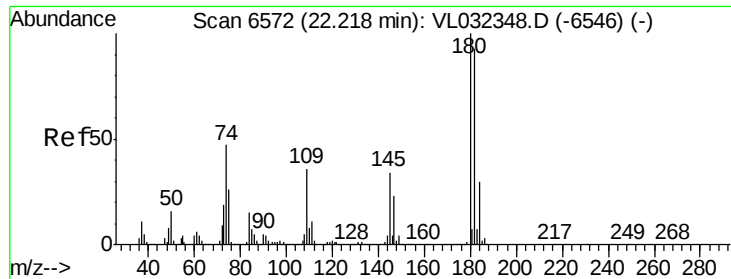
141 83.4 66.7 100.1

115 39.7 31.0 46.6



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V

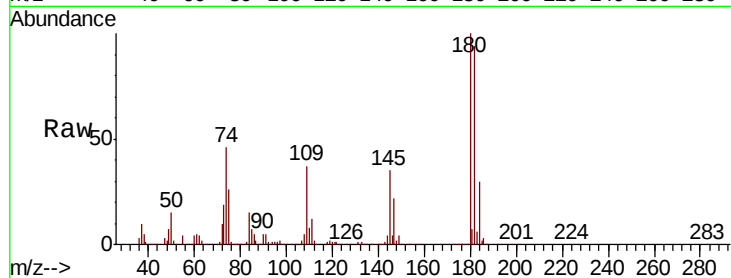




#81
 1,2,4-Trichlorobenzene
 Concen: 10.053 ppbv
 RT: 22.21 min Scan# 6570
 Delta R.T. -0.01 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:180 Resp: 2051008
 Ion Ratio Lower Upper
 180 100
 182 95.3 76.1 114.1
 184 30.5 24.2 36.2



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

