

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031519\
 Data File : VL033317.D
 Acq On : 15 Mar 2019 2:55
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Quant Time: Mar 15 04:24:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 04:20:36 2019
 QLast Update : Fri Mar 15 04:20:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	870285	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	1999073	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2230993	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1634140	9.58	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	1372731	8.940	ppbv	100
3) Chlorodifluoromethane	3.01	51	931004	8.406	ppbv	100
4) Chloromethane	3.17	50	495200	8.289	ppbv	100
5) Vinyl Chloride	3.29	62	492136	8.126	ppbv	100
6) Bromomethane	3.51	94	320473	8.842	ppbv	100
7) Chloroethane	3.60	64	188990	8.800	ppbv	100
8) Dichlorotetrafluoroethane	3.22	85	1219302	8.465	ppbv	100
9) Propene	3.04	41	408324	8.241	ppbv	100
10) Heptane	8.25	43	1115648	9.078	ppbv	100
11) Trichlorofluoromethane	4.00	101	1407333	8.837	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	924367	8.604	ppbv	100
13) Ethanol	3.65	45	98644	6.350	ppbv	100
14) Bromoethene	3.79	108	412502	9.209	ppbv	100
15) Acetone	3.90	43	912706	7.697	ppbv	100
16) 1,3-Butadiene	3.36	39	414839	8.723	ppbv	100
17) tert-Butyl alcohol	4.35	59	185829	9.007	ppbv	100
18) 1,1-Dichloroethene	4.35	96	419868	8.915	ppbv	100
19) Isopropyl Alcohol	4.02	45	635862	8.726	ppbv	100
20) Methylene Chloride	4.41	84	356760	7.485	ppbv	100
21) Allyl Chloride	4.48	41	648848	9.161	ppbv	100
22) trans-1,2-Dichloroethene	4.96	96	418165	8.828	ppbv	100
23) Vinyl Acetate	5.16	43	1500815	8.937	ppbv	100
24) 1,1-Dichloroethane	5.09	63	1041861	8.585	ppbv	100
25) Ethyl Acetate	5.77	43	1858212	8.691	ppbv	100
26) Hexane	5.78	57	820942	8.213	ppbv	100
27) Carbon Disulfide	4.62	76	1040920	9.793	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1235289	8.799	ppbv	100
29) Chloroform	5.85	83	1382587	8.860	ppbv	100
30) Cyclohexane	7.25	84	690094	8.957	ppbv	100
31) cis-1,2-Dichloroethene	5.64	61	862937	9.059	ppbv	100
32) 1,1,1-Trichloroethane	6.62	97	1378025	9.044	ppbv	100
34) 2-Butanone	5.33	43	1178489	8.751	ppbv	100
35) Carbon Tetrachloride	7.14	117	1441635	9.416	ppbv	100
36) Benzene	7.01	78	1748146	9.032	ppbv	100
37) 1,2-Dichloroethane	6.42	62	1070614	9.149	ppbv	100
38) Trichloroethene	7.97	130	669608	8.670	ppbv	100
39) 1,2-Dichloropropane	7.74	63	660227	8.880	ppbv	100
40) 1,4-Dioxane	7.96	88	229602	8.607	ppbv #	100
41) Tetrahydrofuran	6.15	42	711135	9.366	ppbv	100
42) Bromodichloromethane	7.92	83	1591121	9.702	ppbv	100
43) Methyl Methacrylate	8.14	69	721428	9.352	ppbv	100

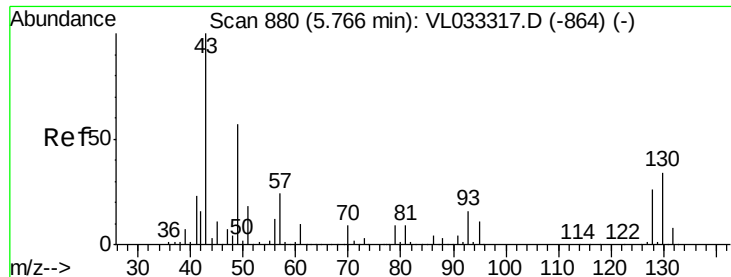
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031519\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2920325	8.797	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	978700	10.811	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	1088915	9.988	ppbv	100
47) 1,1,2-Trichloroethane	9.62	97	720558	9.063	ppbv	100
48) Dibromochloromethane	10.46	129	1424446	10.610	ppbv	100
49) Bromoform	13.21	173	1278778	11.240	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1803715	9.095	ppbv	100
51) 2-Hexanone	10.27	43	1493051	9.781	ppbv #	100
52) Tetrachloroethene	11.38	164	710324	8.902	ppbv	100
53) Toluene	9.95	91	2066480	9.334	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1278597	9.839	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.28	131	1001000	9.927	ppbv	98
57) Chlorobenzene	12.31	112	1678353	9.282	ppbv	100
58) Ethyl Benzene	12.87	91	3187406	9.912	ppbv	100
59) m/p-Xylene	13.16	91	1538740	5.692	ppbv #	1
60) o-Xylene	13.86	91	2590821	9.898	ppbv	100
61) Styrene	13.69	104	1943025	10.607	ppbv	100
62) Isopropylbenzene	14.83	105	3612058	9.829	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1785219	9.473	ppbv	100
64) n-propylbenzene	15.73	120	936851	10.249	ppbv	100
65) tert-Butylbenzene	16.91	119	3196162	10.267	ppbv	100
66) Benzyl Chloride	17.16	91	1747889	13.826	ppbv	100
67) sec-Butylbenzene	17.46	105	4577000	10.206	ppbv	100
69) p-Isopropyltoluene	17.82	119	3786733	10.557	ppbv	100
70) n-Butylbenzene	18.72	91	4026164	10.714	ppbv	100
71) 2-Chlorotoluene	15.62	91	2811276	10.207	ppbv	100
72) 4-Ethyltoluene	16.01	105	3042737	10.807	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	2923719	11.052	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	2960007	10.955	ppbv	100
75) 1,3-Dichlorobenzene	17.17	146	1700713	10.055	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1707914	10.334	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1683646	10.189	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	890127	7.844	ppbv	100
79) Naphthalene	22.42	128	2907341	13.236	ppbv	100
80) Naphthalene,2-methyl-	25.12	142	1453817	22.884	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	1463849	11.714	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. 0.00 min

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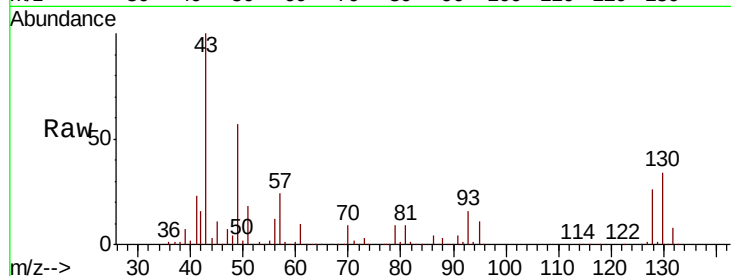
Tgt Ion: 49 Resp: 870285

Ion Ratio Lower Upper

49 100

128 46.4 23.2 69.6

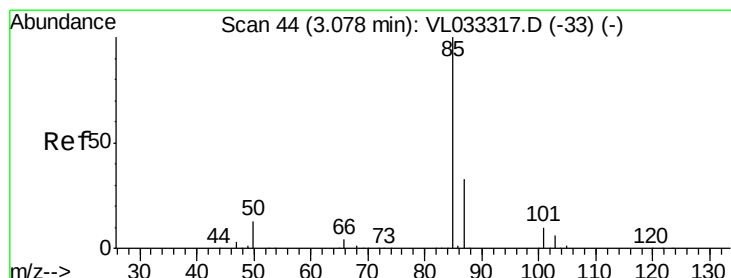
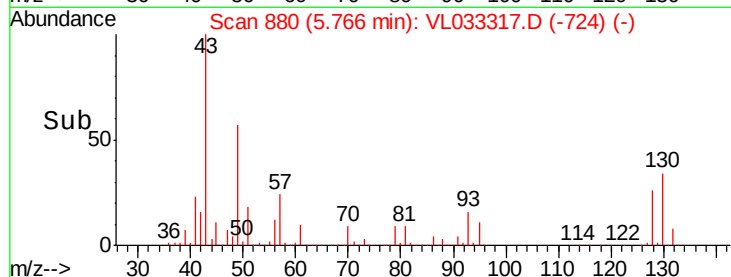
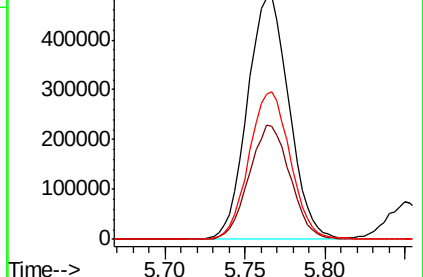
130 60.3 30.1 90.5



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: 8.940 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033317.D

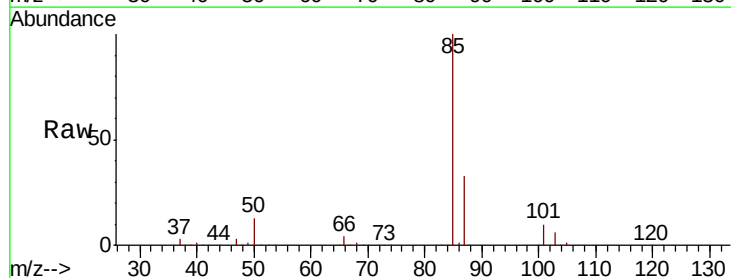
Acq: 15 Mar 2019 2:55

Tgt Ion: 85 Resp: 1372731

Ion Ratio Lower Upper

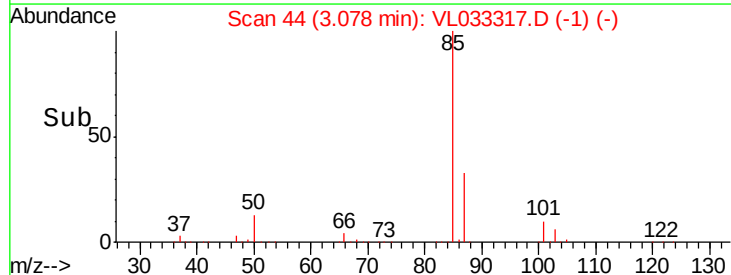
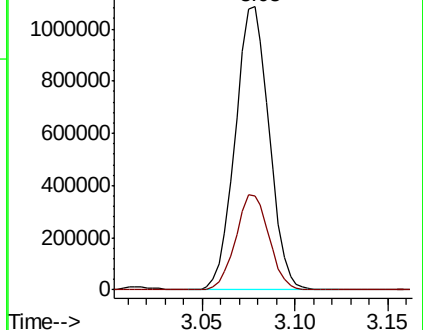
85 100

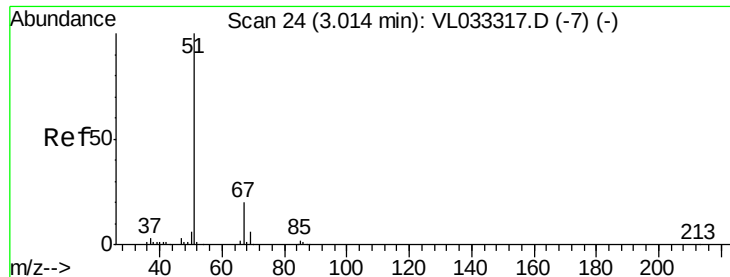
87 33.0 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

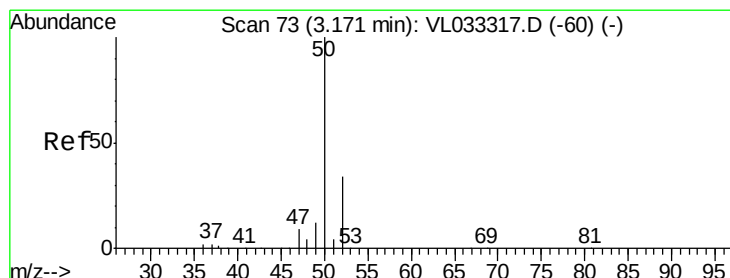
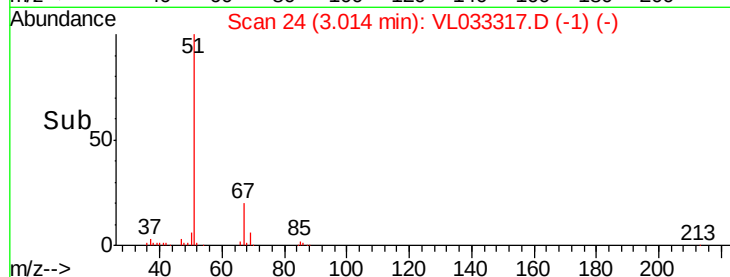
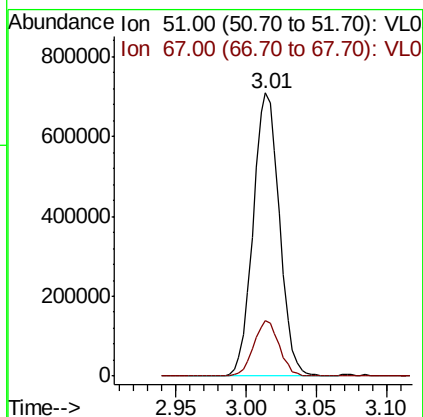
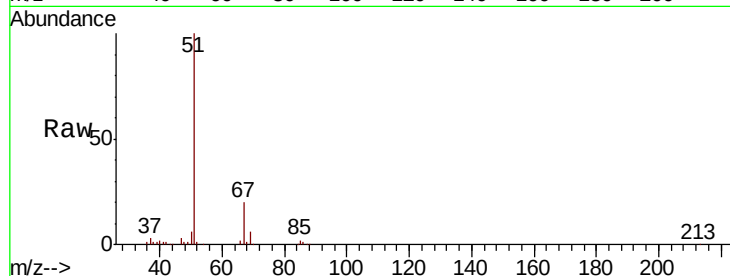




#3
Chlorodifluoromethane
Concen: 8.406 ppbv
RT: 3.01 min Scan# 24
Delta R.T. 0.00 min
Lab File: VL033317.D
Acq: 15 Mar 2019 2:55

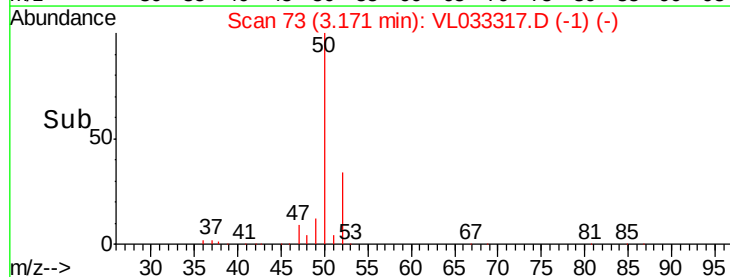
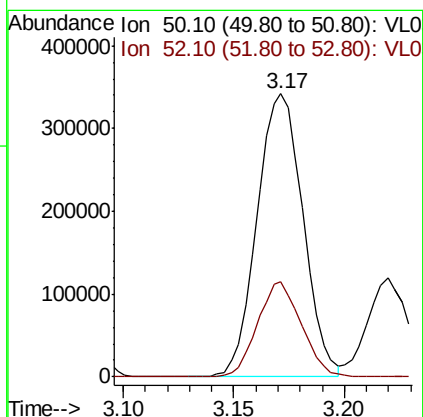
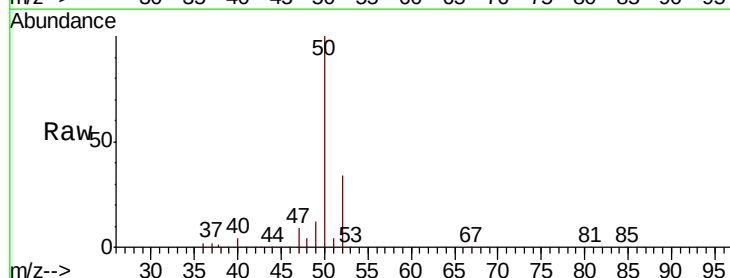
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

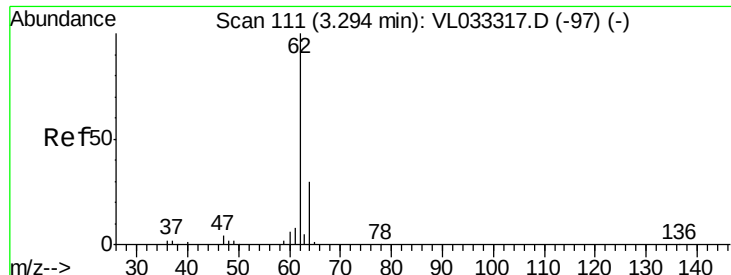
Tgt Ion: 51 Resp: 931004
Ion Ratio Lower Upper
51 100
67 18.9 15.1 22.7



#4
Chloromethane
Concen: 8.289 ppbv
RT: 3.17 min Scan# 73
Delta R.T. 0.00 min
Lab File: VL033317.D
Acq: 15 Mar 2019 2:55

Tgt Ion: 50 Resp: 495200
Ion Ratio Lower Upper
50 100
52 33.5 26.8 40.2





#5

Vinyl Chloride

Concen: 8.126 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

Instrument :

MSVOA_L

ClientSampleId :

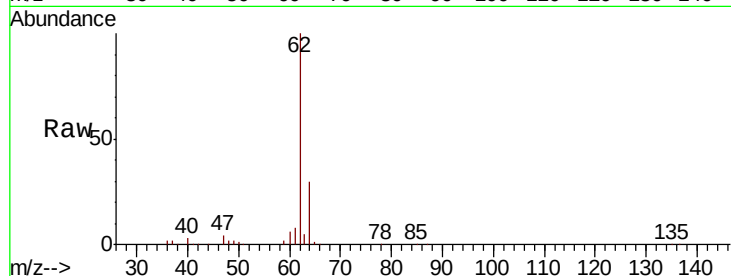
VSTDICCC010

Tgt Ion: 62 Resp: 492136

Ion Ratio Lower Upper

62 100

64 30.4 24.3 36.5



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.29

400000

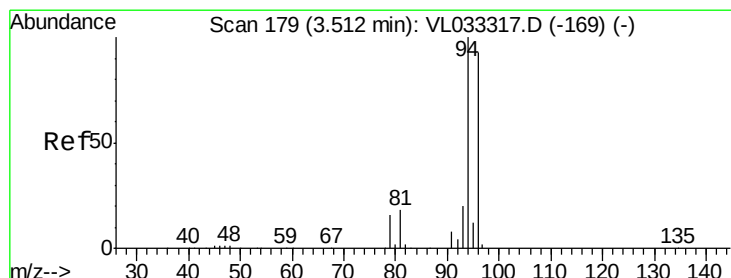
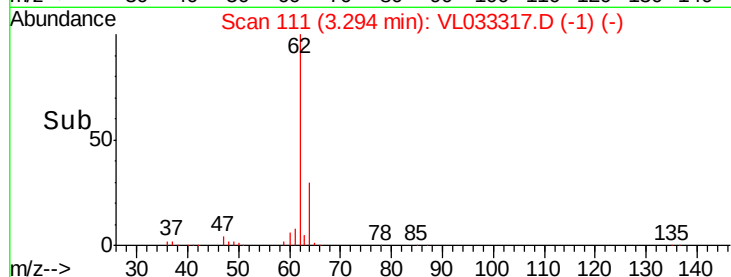
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 8.842 ppbv

RT: 3.51 min Scan# 179

Delta R.T. 0.00 min

Lab File: VL033317.D

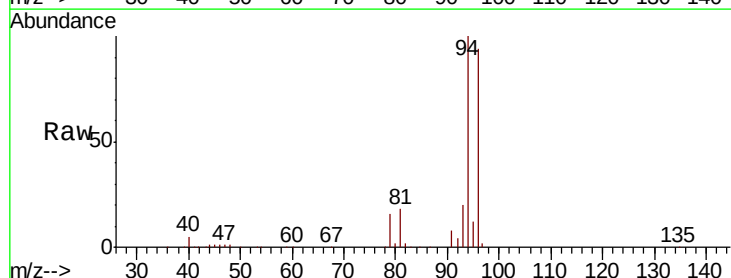
Acq: 15 Mar 2019 2:55

Tgt Ion: 94 Resp: 320473

Ion Ratio Lower Upper

94 100

96 93.5 74.8 112.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.51

250000

200000

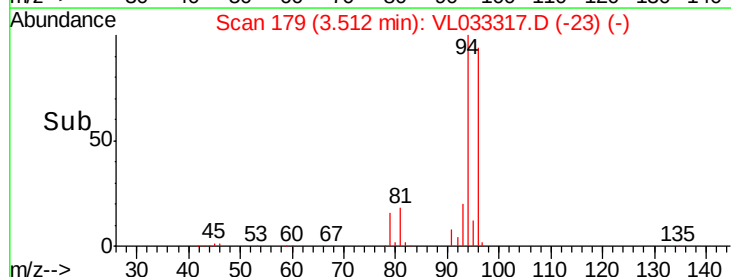
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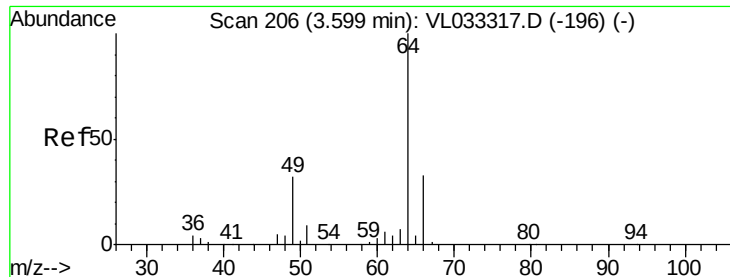
100000

50000

0

Time-->





#7

Chloroethane

Concen: 8.800 ppbv

RT: 3.60 min Scan# 206

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

Instrument :

MSVOA_L

ClientSampleId :

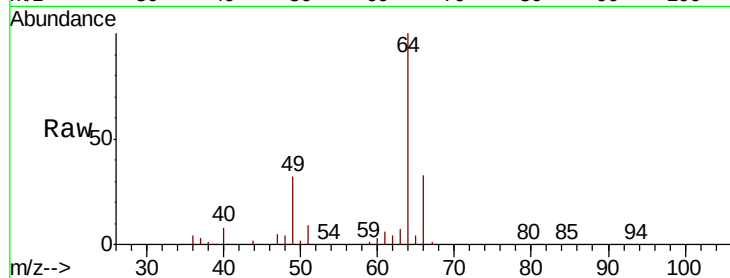
VSTDICCC010

Tgt Ion: 64 Resp: 188990

Ion Ratio Lower Upper

64 100

66 33.2 26.6 39.8



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.60

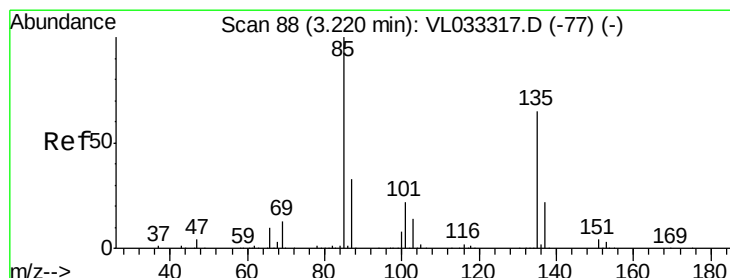
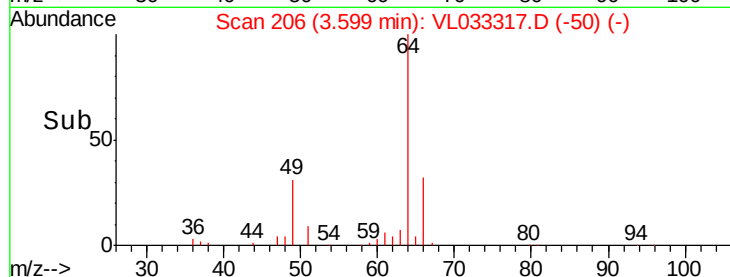
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.465 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033317.D

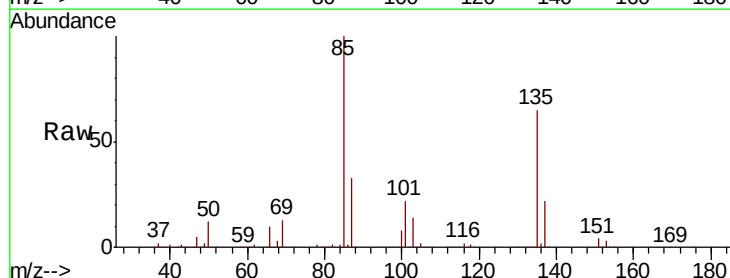
Acq: 15 Mar 2019 2:55

Tgt Ion: 85 Resp: 1219302

Ion Ratio Lower Upper

85 100

135 65.8 52.6 79.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.22

1000000

800000

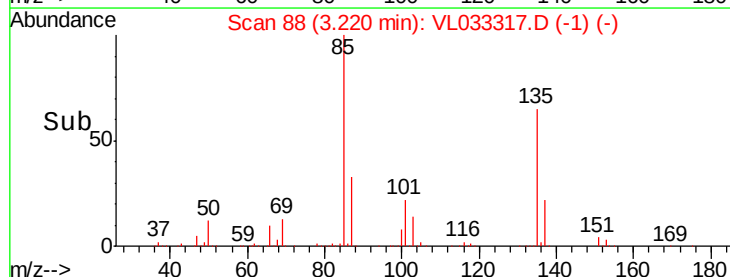
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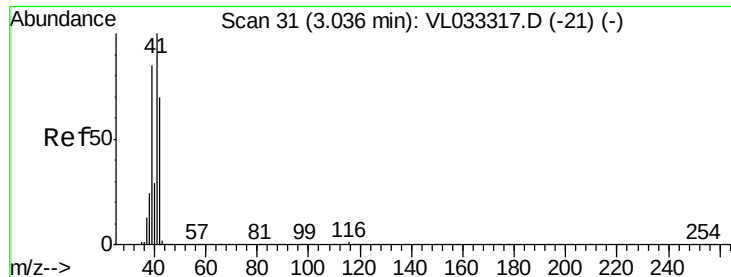
400000

200000

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Time-->





#9

Propene

Concen: 8.241 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

Instrument :

MSVOA_L

ClientSampleId :

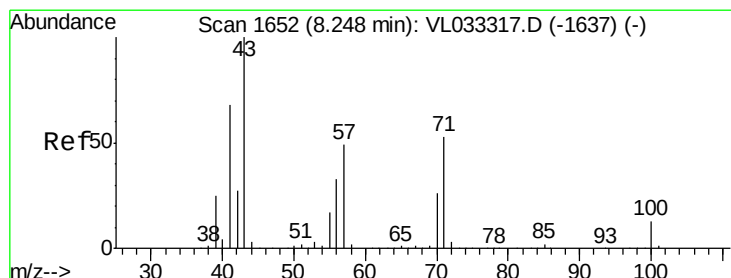
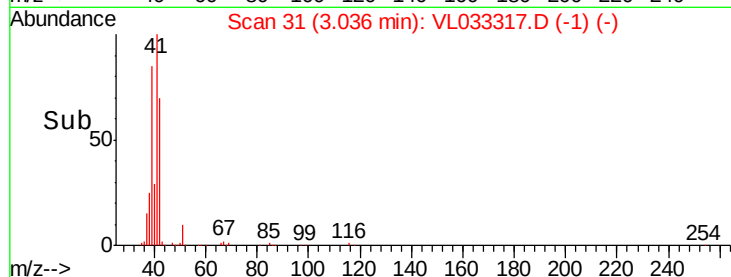
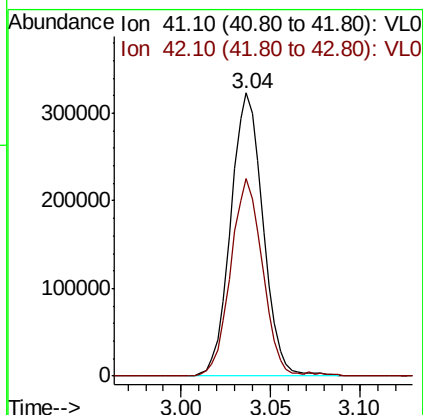
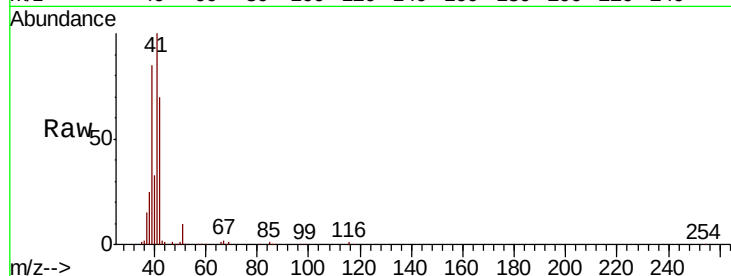
VSTDICCC010

Tgt Ion: 41 Resp: 408324

Ion Ratio Lower Upper

41 100

42 69.4 55.5 83.3



#10

Heptane

Concen: 9.078 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. 0.00 min

Lab File: VL033317.D

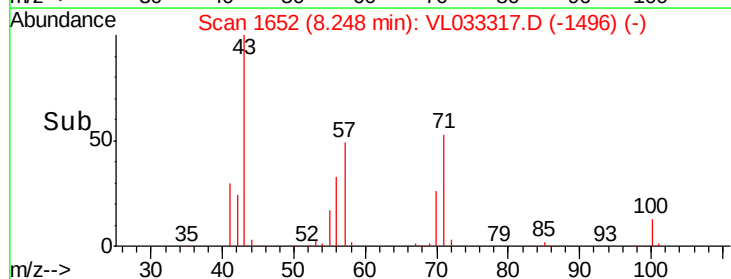
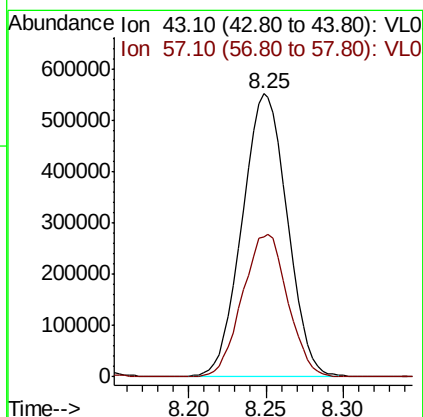
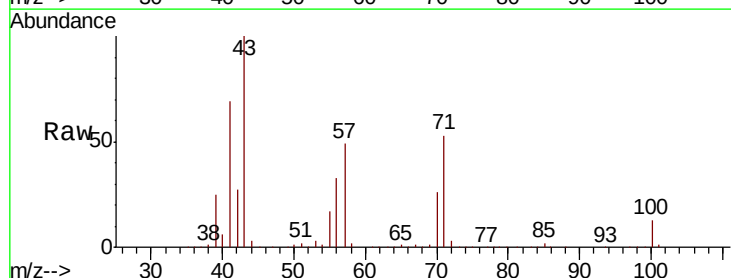
Acq: 15 Mar 2019 2:55

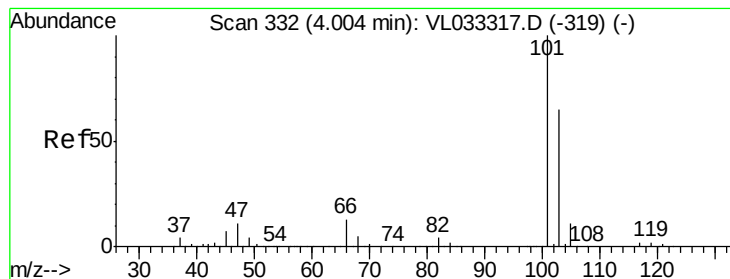
Tgt Ion: 43 Resp: 1115648

Ion Ratio Lower Upper

43 100

57 50.6 40.6 61.0





#11

Trichlorofluoromethane

Concen: 8.837 ppbv

RT: 4.00 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

Instrument :

MSVOA_L

ClientSampleId :

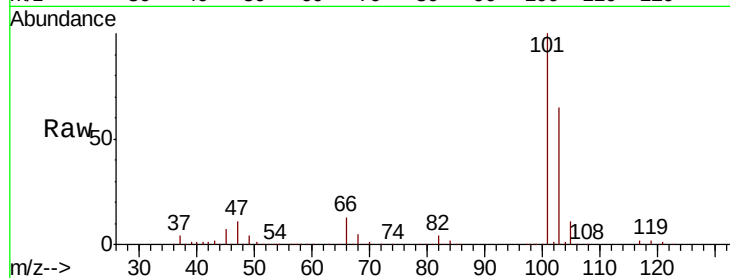
VSTDICCC010

Tgt Ion:101 Resp: 1407333

Ion Ratio Lower Upper

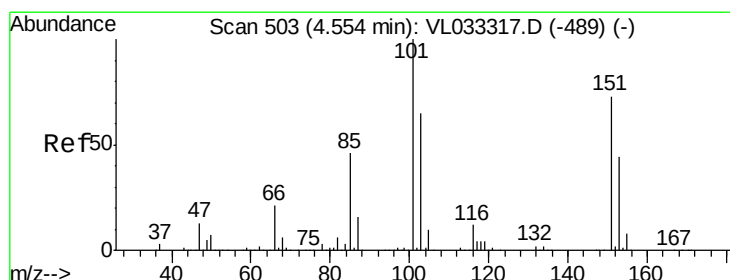
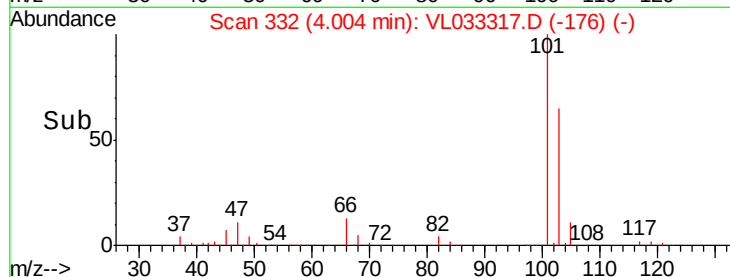
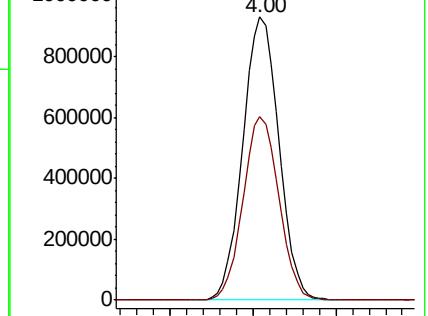
101 100

103 64.7 51.8 77.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.604 ppbv

RT: 4.55 min Scan# 503

Delta R.T. 0.00 min

Lab File: VL033317.D

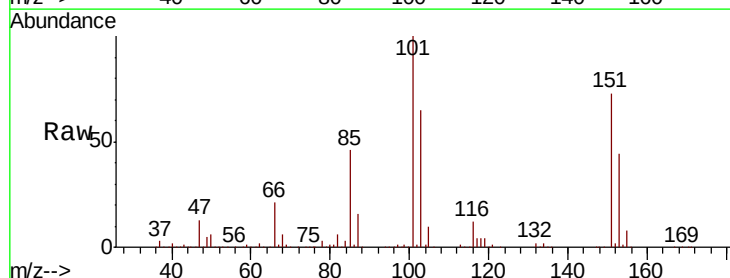
Acq: 15 Mar 2019 2:55

Tgt Ion:101 Resp: 924367

Ion Ratio Lower Upper

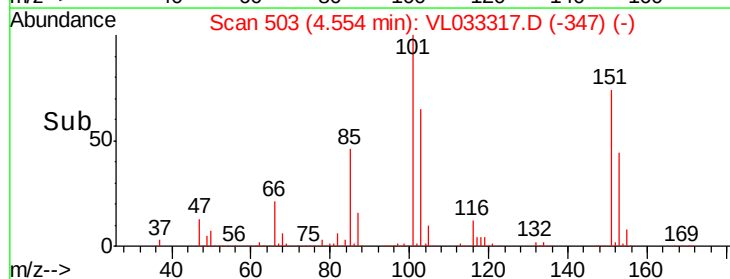
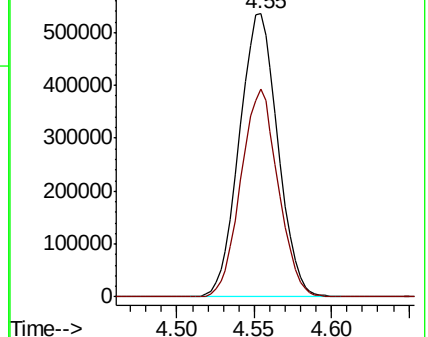
101 100

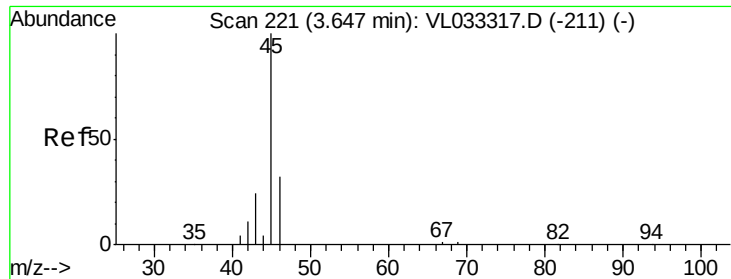
151 71.5 57.2 85.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 6.350 ppbv

RT: 3.65 min Scan# 221

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

Instrument :

MSVOA_L

ClientSampleId :

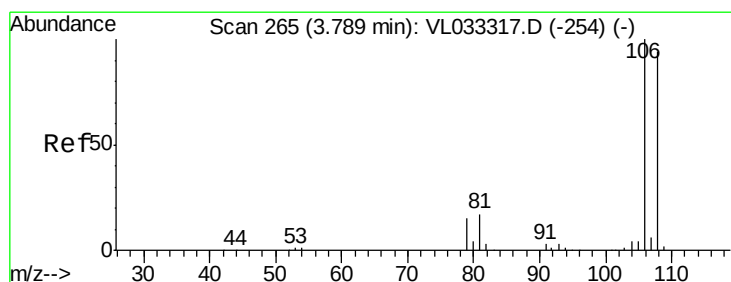
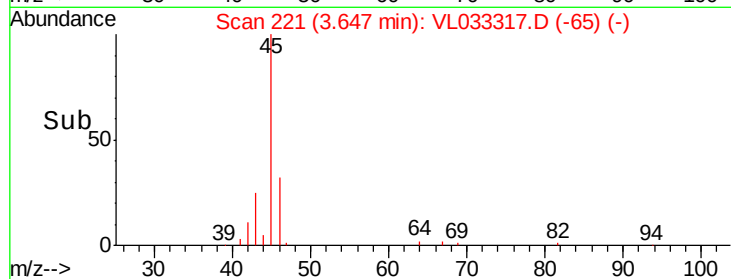
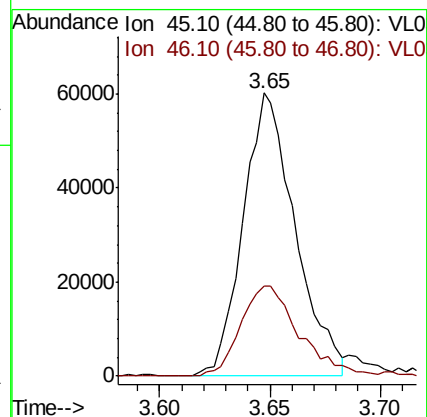
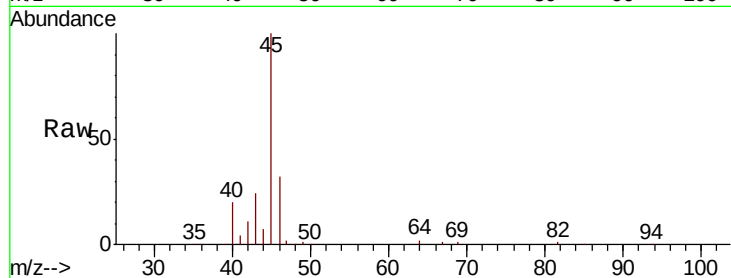
VSTDICCC010

Tgt Ion: 45 Resp: 98644

Ion Ratio Lower Upper

45 100

46 37.0 14.7 58.9



#14

Bromoethene

Concen: 9.209 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

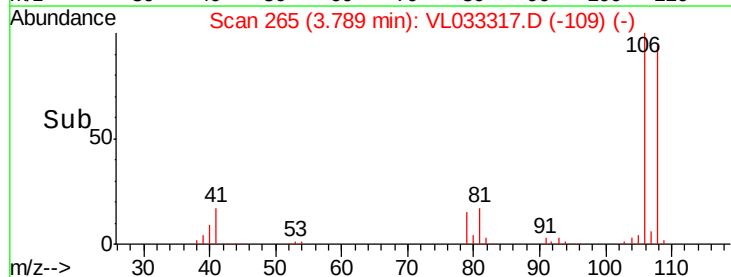
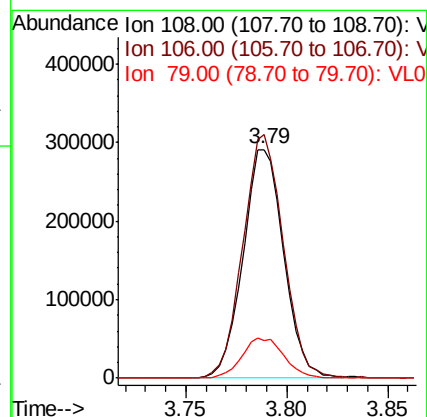
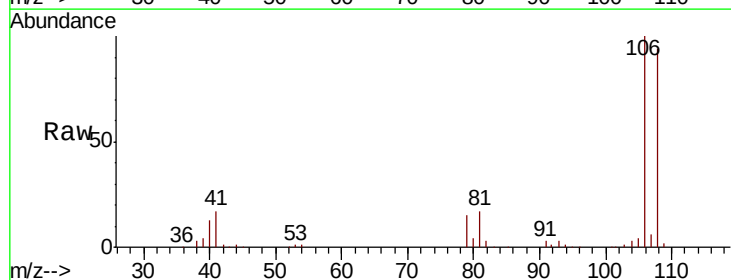
Tgt Ion: 108 Resp: 412502

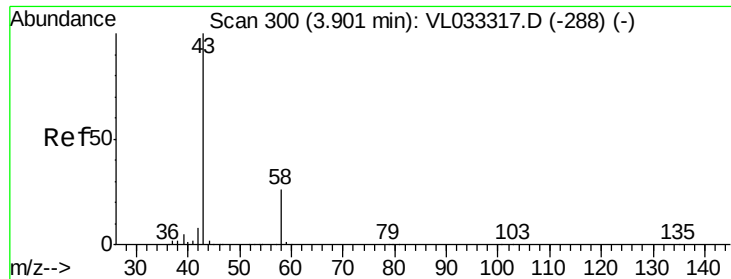
Ion Ratio Lower Upper

108 100

106 106.4 85.1 127.7

79 18.3 14.6 22.0





#15

Acetone

Concen: 7.697 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

Instrument :

MSVOA_L

ClientSampleId :

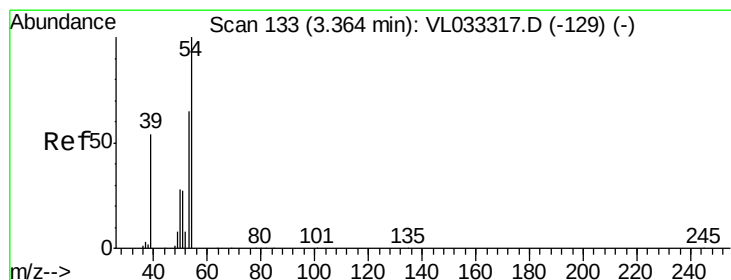
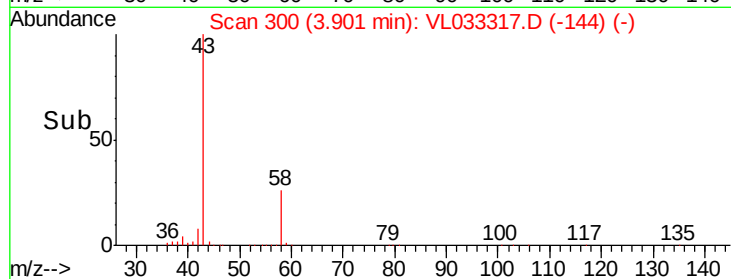
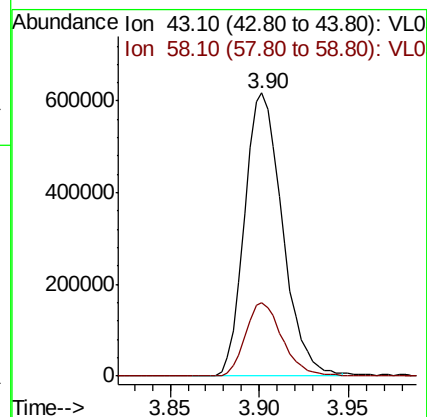
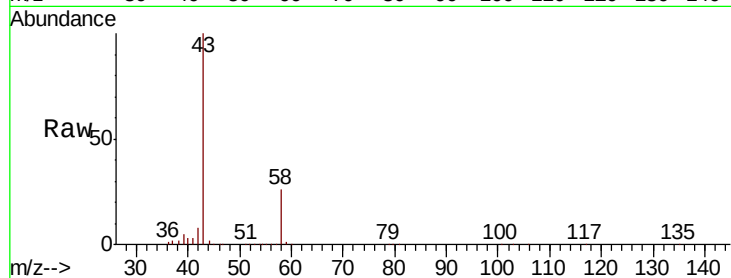
VSTDICCC010

Tgt Ion: 43 Resp: 912706

Ion Ratio Lower Upper

43 100

58 25.4 20.3 30.5



#16

1,3-Butadiene

Concen: 8.723 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033317.D

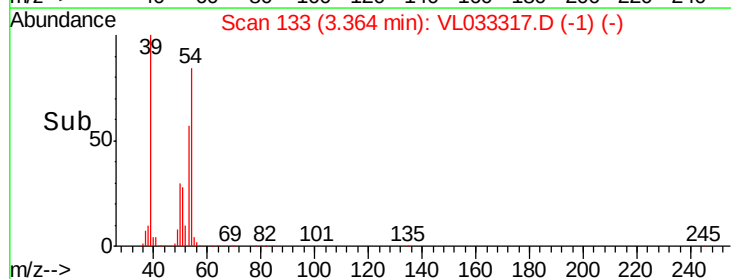
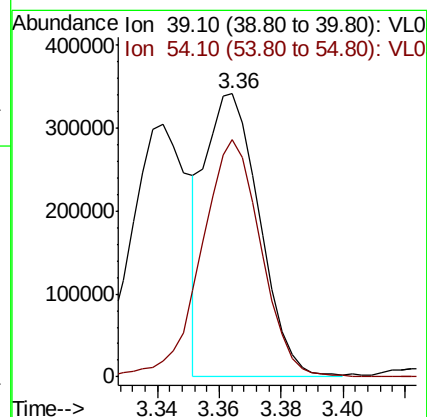
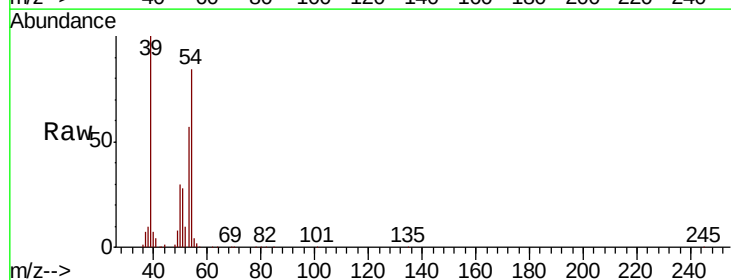
Acq: 15 Mar 2019 2:55

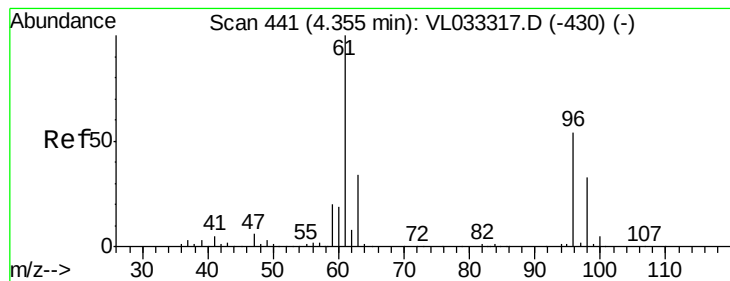
Tgt Ion: 39 Resp: 414839

Ion Ratio Lower Upper

39 100

54 93.0 74.4 111.6





#17

tert-Butyl alcohol

Concen: 9.007 ppbv

RT: 4.35 min Scan# 441

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

Instrument :

MSVOA_L

ClientSampleId :

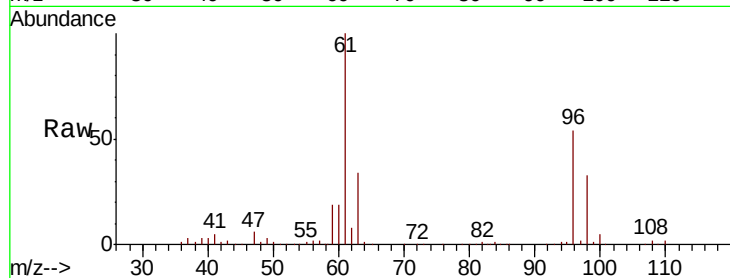
VSTDICCC010

Tgt Ion: 59 Resp: 185829

Ion Ratio Lower Upper

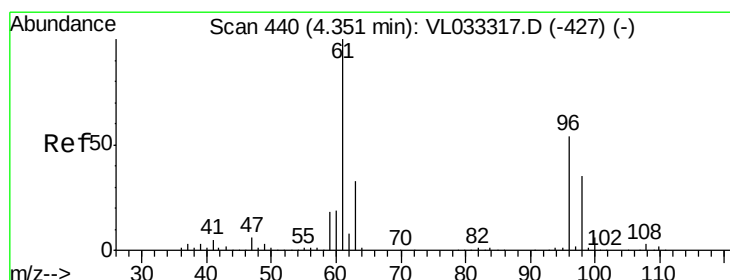
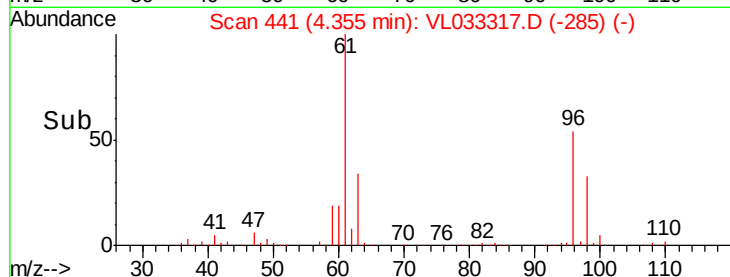
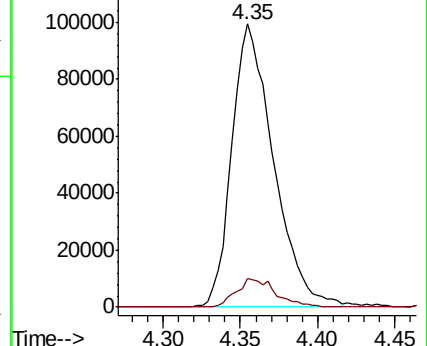
59 100

57 9.8 7.8 11.8



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 8.915 ppbv

RT: 4.35 min Scan# 440

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

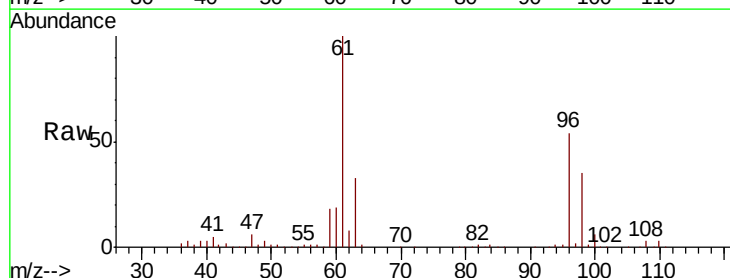
Tgt Ion: 96 Resp: 419868

Ion Ratio Lower Upper

96 100

61 186.1 148.9 223.3

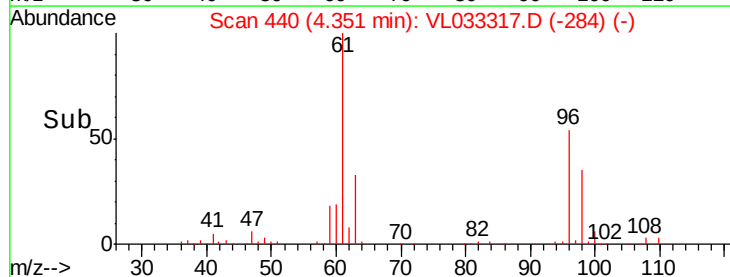
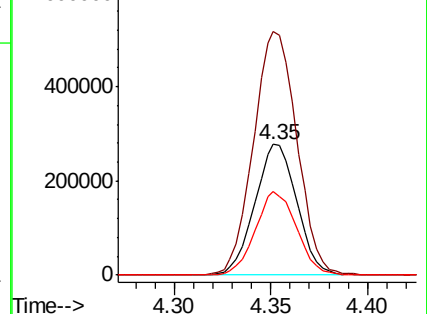
98 64.2 51.4 77.0

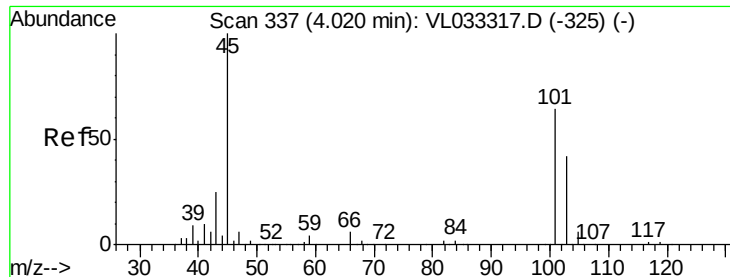


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 8.726 ppbv

RT: 4.02 min Scan# 337

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

Instrument :

MSVOA_L

ClientSampleId :

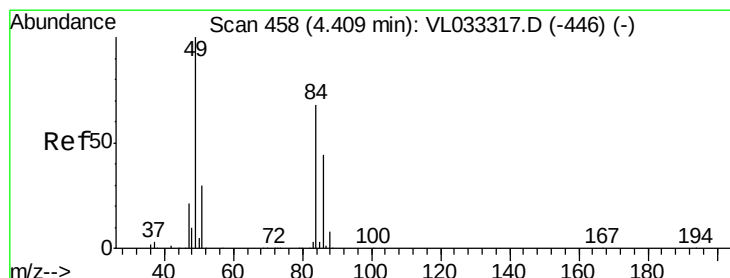
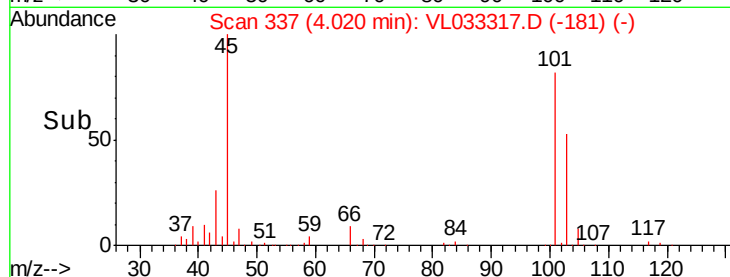
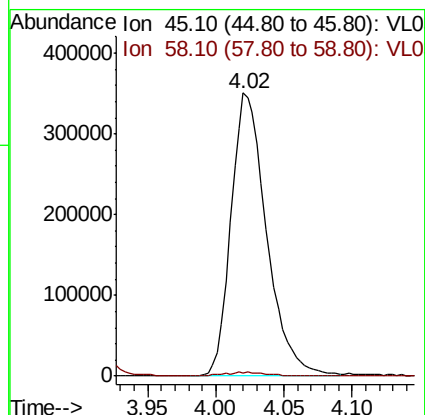
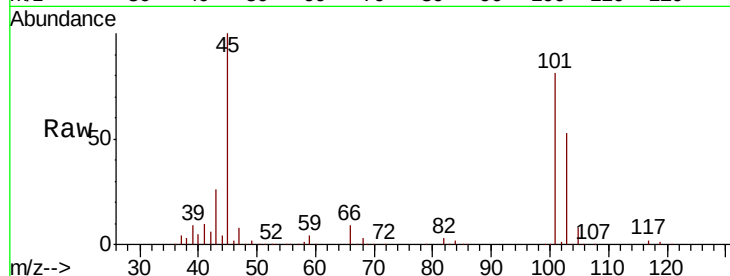
VSTDICCC010

Tgt Ion: 45 Resp: 635862

Ion Ratio Lower Upper

45 100

58 1.9 1.6 2.4



#20

Methylene Chloride

Concen: 7.485 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

Tgt Ion: 84 Resp: 356760

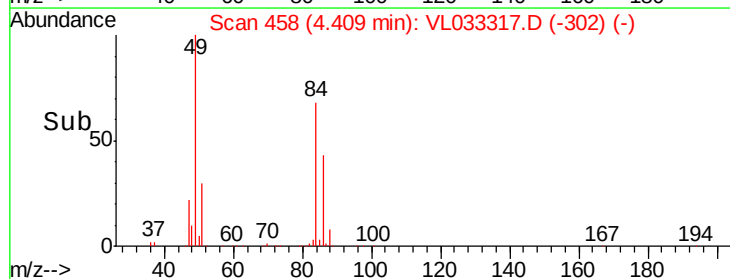
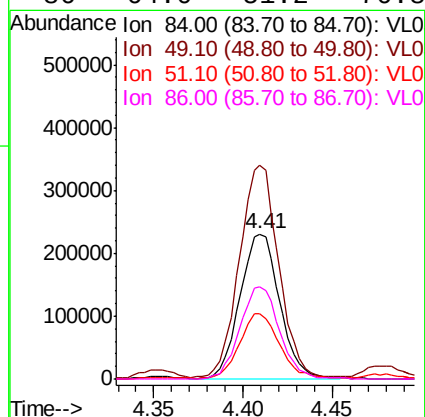
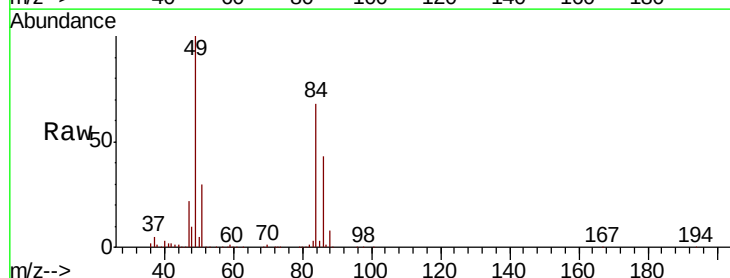
Ion Ratio Lower Upper

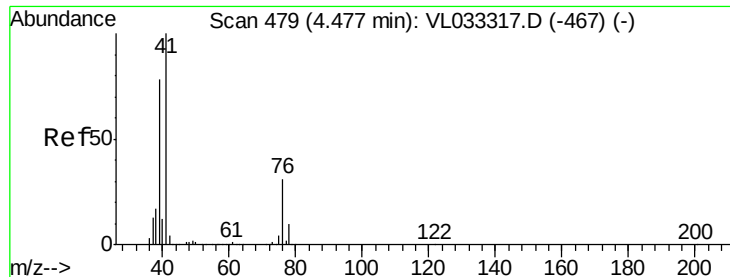
84 100

49 146.3 117.0 175.6

51 44.1 35.3 52.9

86 64.0 51.2 76.8

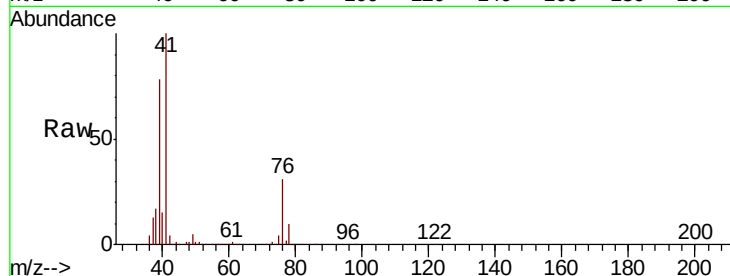




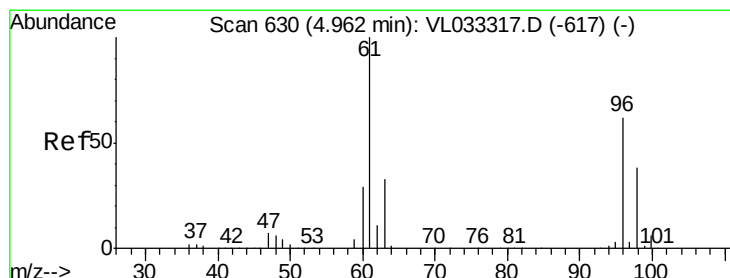
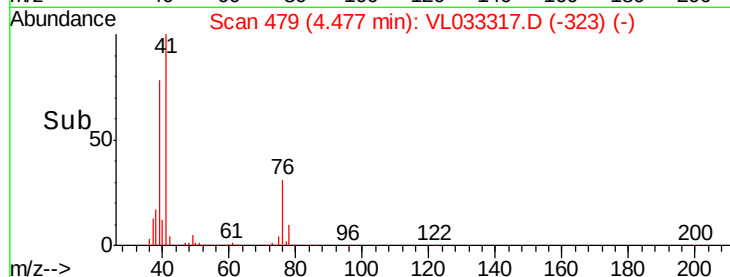
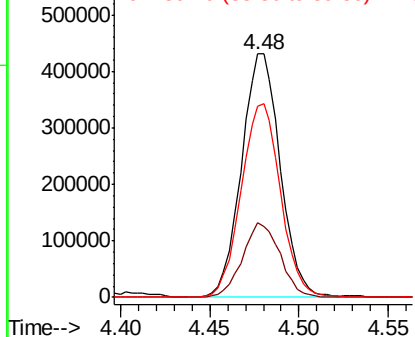
#21
 Allyl Chloride
 Concen: 9.161 ppbv
 RT: 4.48 min Scan# 479
 Delta R.T. 0.00 min
 Lab File: VL033317.D
 Acq: 15 Mar 2019 2:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 41 Resp: 648848
 Ion Ratio Lower Upper
 41 100
 76 30.1 24.1 36.1
 39 81.1 65.0 97.4

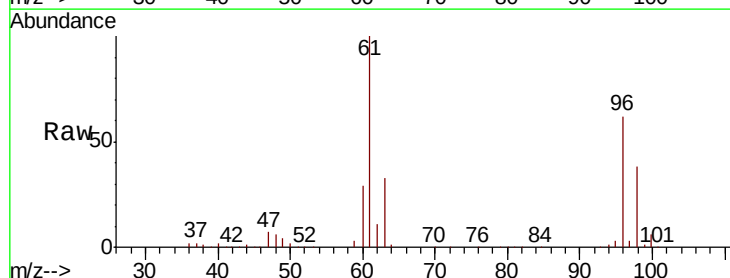


Abundance Ion 41.10 (40.80 to 41.80): VL0
 Ion 76.10 (75.80 to 76.80): VL0
 Ion 39.10 (38.80 to 39.80): VL0

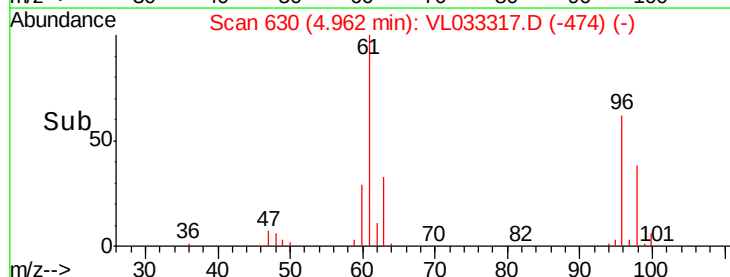
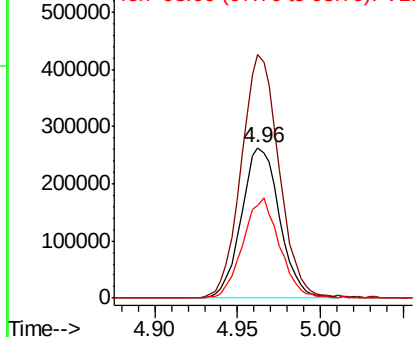


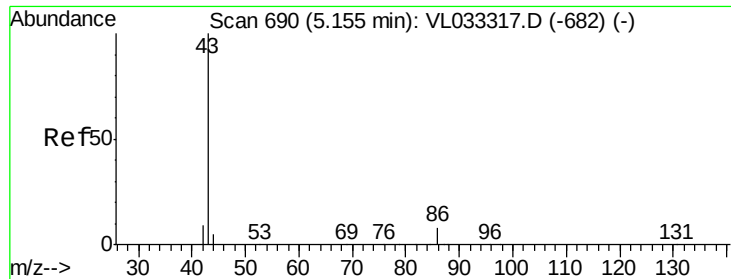
#22
 trans-1,2-Dichloroethene
 Concen: 8.828 ppbv
 RT: 4.96 min Scan# 630
 Delta R.T. 0.00 min
 Lab File: VL033317.D
 Acq: 15 Mar 2019 2:55

Tgt Ion: 96 Resp: 418165
 Ion Ratio Lower Upper
 96 100
 61 162.3 129.8 194.8
 98 61.5 49.2 73.8



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





#23

Vinyl Acetate

Concen: 8.937 ppbv

RT: 5.16 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 43 Resp: 1500815

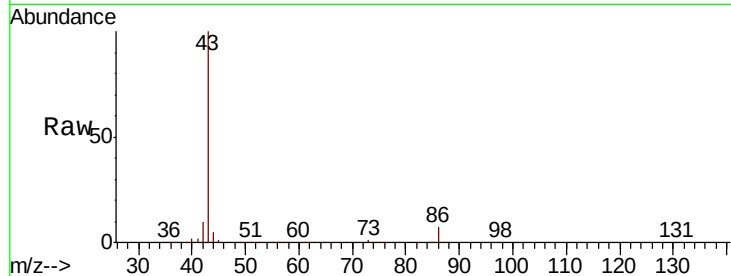
Ion Ratio Lower Upper

43 100

86 7.0 5.6 8.4

42 9.7 7.8 11.6

44 5.3 4.2 6.4

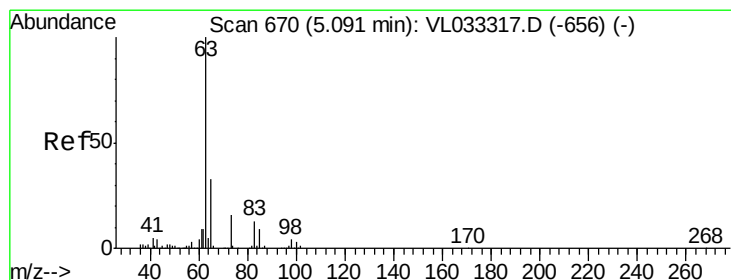
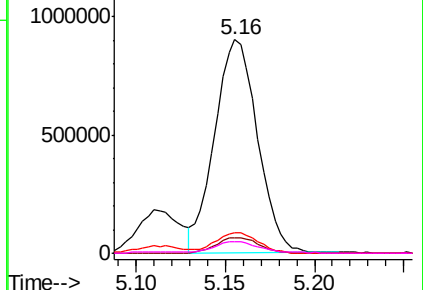
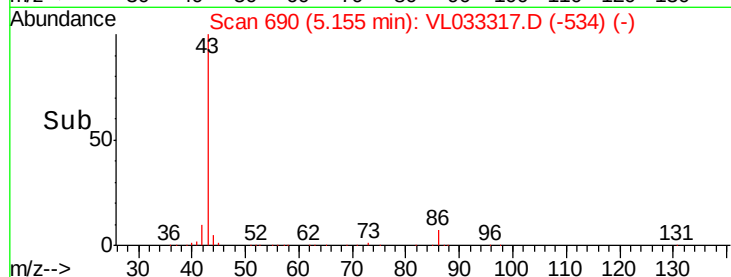


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 8.585 ppbv

RT: 5.09 min Scan# 670

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

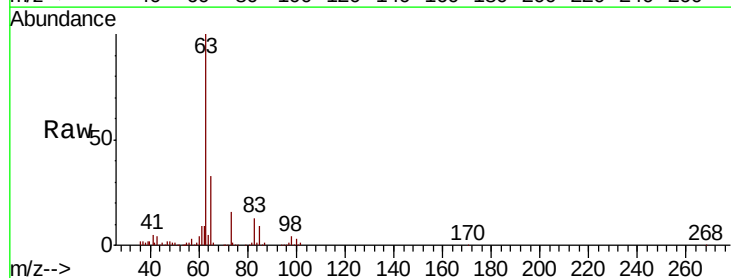
Tgt Ion: 63 Resp: 1041861

Ion Ratio Lower Upper

63 100

98 4.1 2.1 6.2

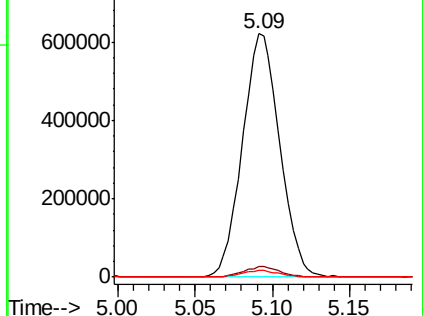
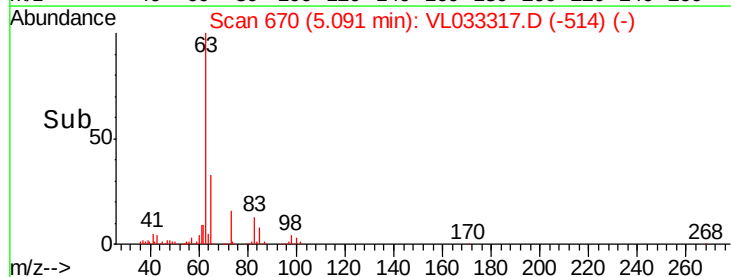
100 2.6 1.3 3.9

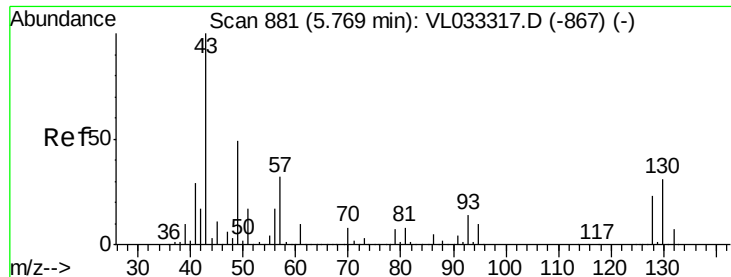


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



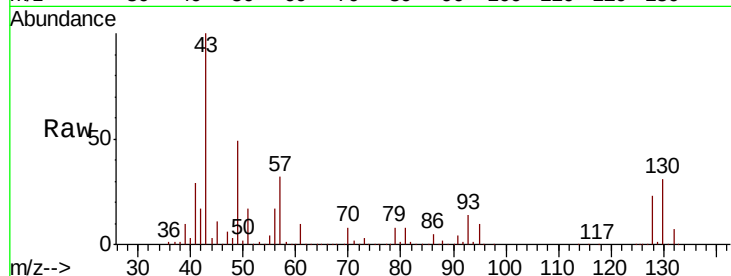


#25
Ethyl Acetate
Concen: 8.691 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.00 min
Lab File: VL033317.D
Acq: 15 Mar 2019 2:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 1858212

Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.8	11.8
61	8.9	7.1	10.7
70	7.1	5.7	8.5



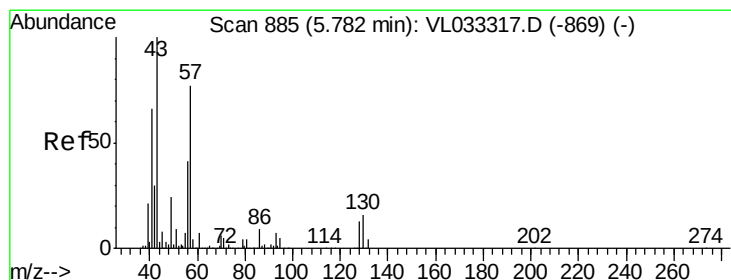
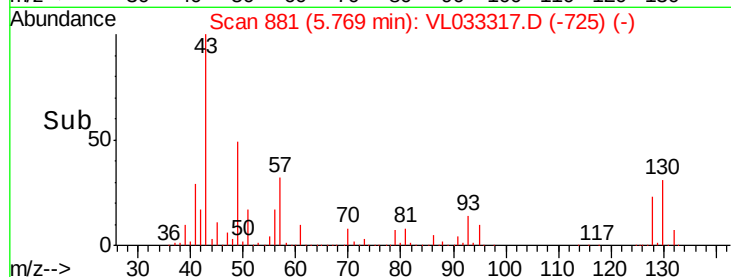
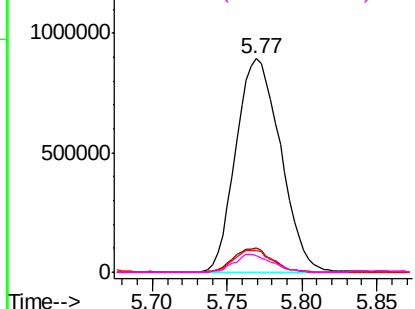
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 8.213 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.00 min
Lab File: VL033317.D
Acq: 15 Mar 2019 2:55

Tgt Ion: 57 Resp: 820942

Ion	Ratio	Lower	Upper
57	100		
41	89.7	71.8	107.6
43	227.6	182.1	273.1
56	52.7	42.2	63.2

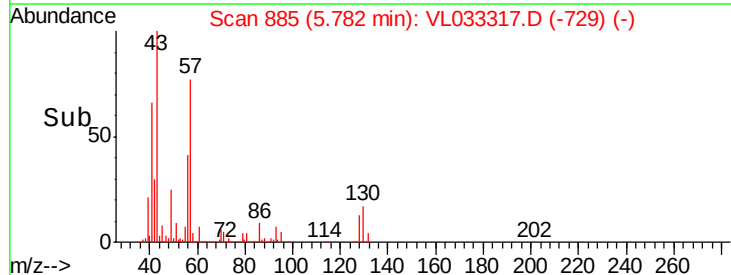
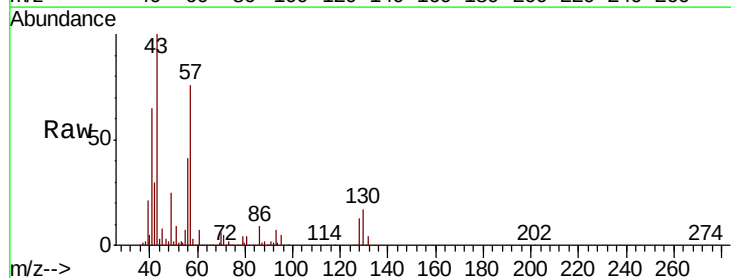
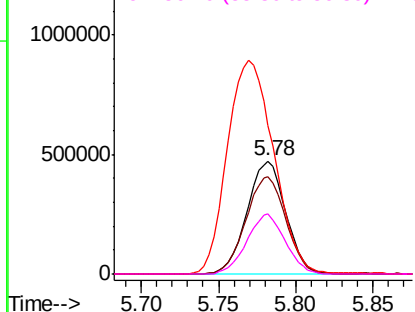
Abundance

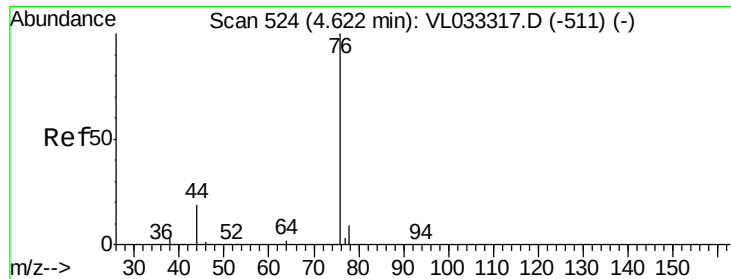
Ion 57.10 (56.80 to 57.80): VL0

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: 9.793 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

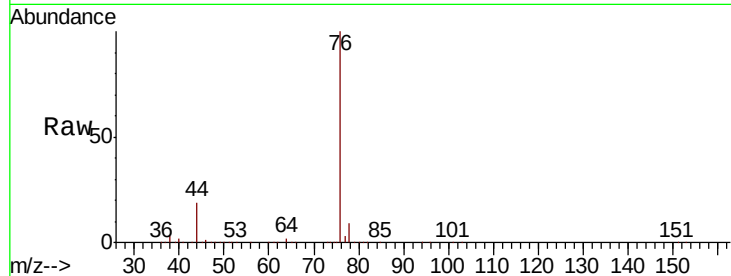
Tgt Ion: 76 Resp: 1040920

Ion Ratio Lower Upper

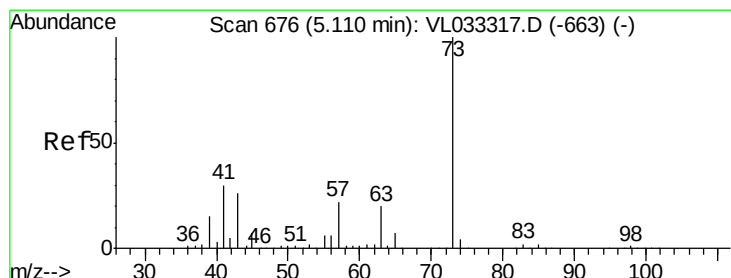
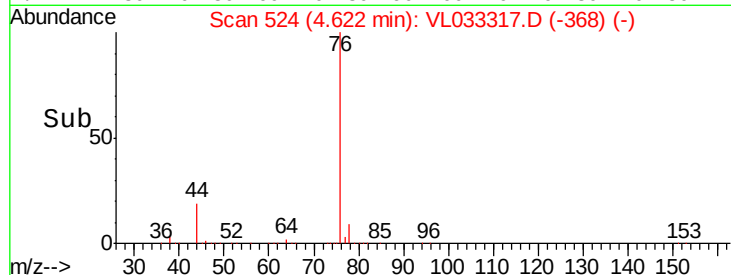
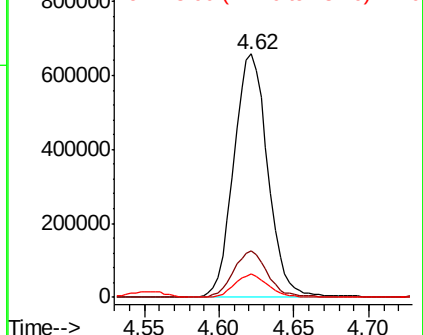
76 100

44 18.8 15.0 22.6

78 9.3 7.4 11.2



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: 8.799 ppbv

RT: 5.11 min Scan# 676

Delta R.T. 0.00 min

Lab File: VL033317.D

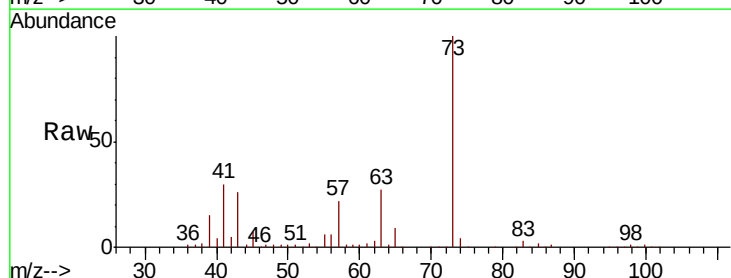
Acq: 15 Mar 2019 2:55

Tgt Ion: 73 Resp: 1235289

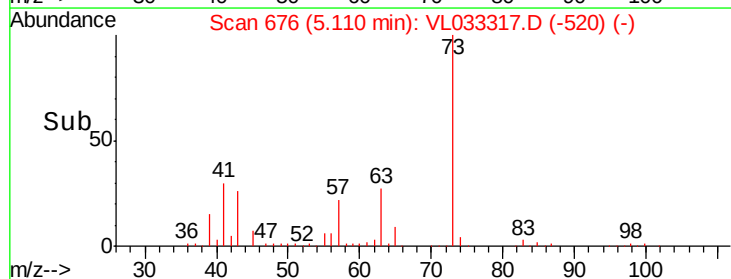
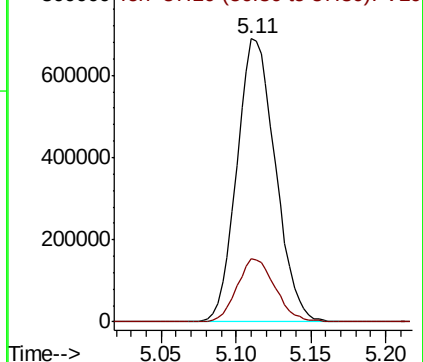
Ion Ratio Lower Upper

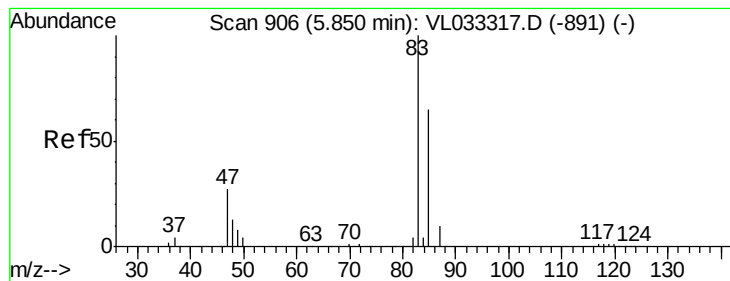
73 100

57 22.2 17.8 26.6



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





#29

Chloroform

Concen: 8.860 ppbv

RT: 5.85 min Scan# 906

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

Instrument :

MSVOA_L

ClientSampleId :

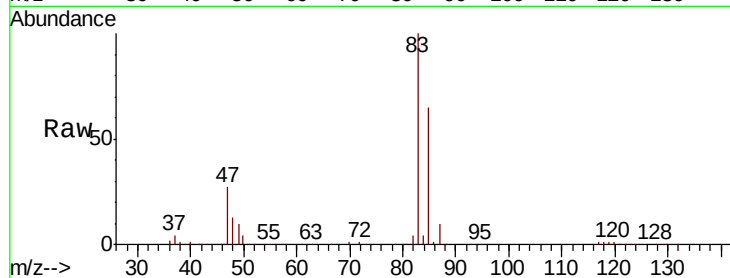
VSTDICCC010

Tgt Ion: 83 Resp: 1382587

Ion Ratio Lower Upper

83 100

85 64.8 51.8 77.8



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

800000

600000

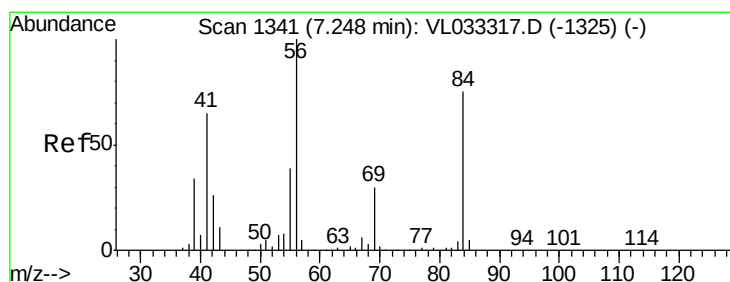
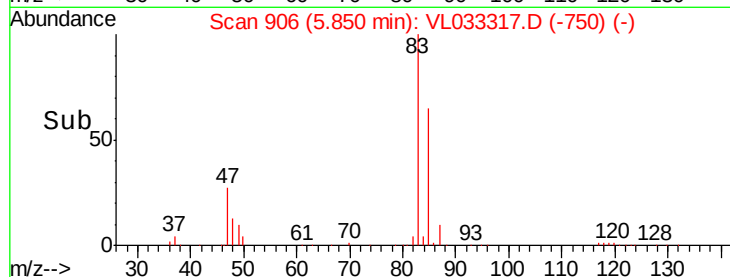
400000

200000

0

5.75 5.80 5.85 5.90

Time-->



#30

Cyclohexane

Concen: 8.957 ppbv

RT: 7.25 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

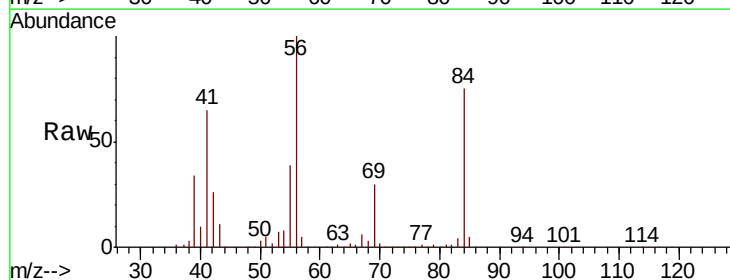
Tgt Ion: 84 Resp: 690094

Ion Ratio Lower Upper

84 100

56 138.9 111.0 166.6

41 86.4 69.1 103.7



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

600000

500000

400000

300000

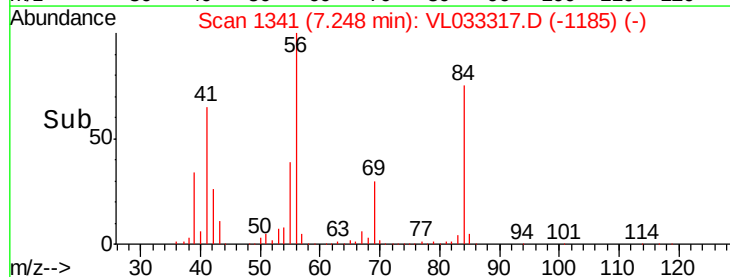
200000

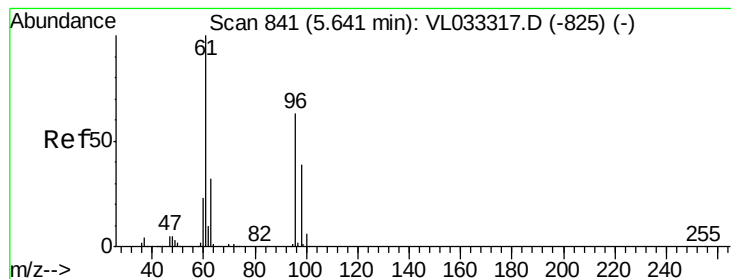
100000

0

7.15 7.20 7.25 7.30

Time-->





#31

cis-1,2-Dichloroethene

Concen: 9.059 ppbv

RT: 5.64 min Scan# 841

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

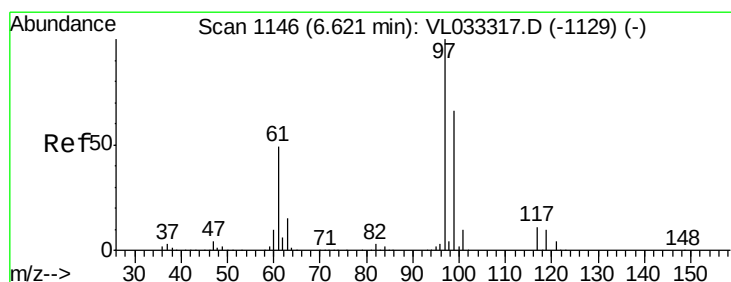
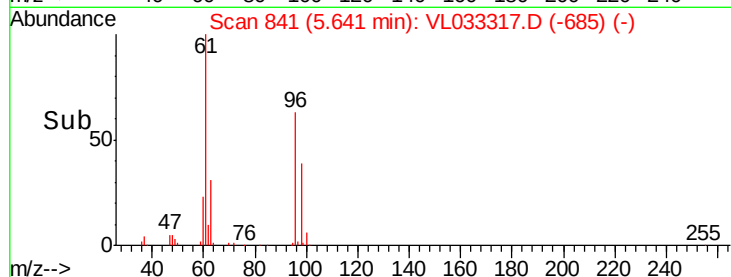
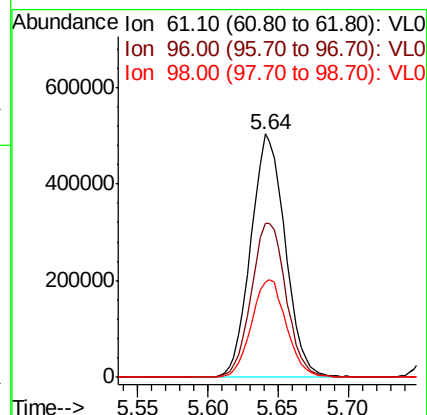
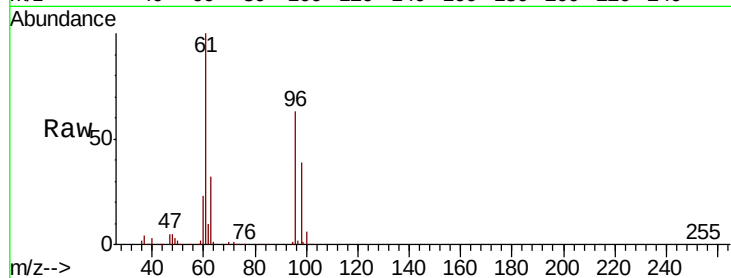
Tgt Ion: 61 Resp: 862937

Ion Ratio Lower Upper

61 100

96 63.1 50.5 75.7

98 38.9 31.1 46.7



#32

1,1,1-Trichloroethane

Concen: 9.044 ppbv

RT: 6.62 min Scan# 1146

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

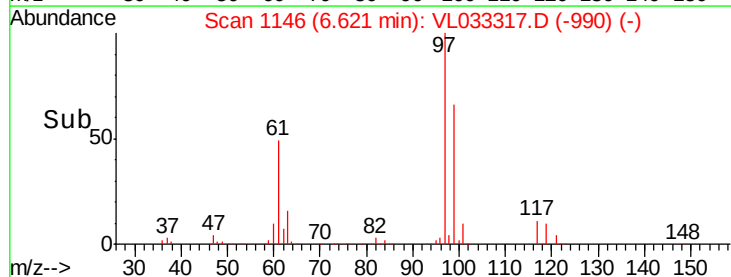
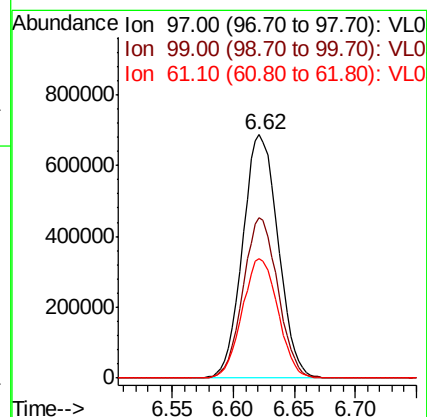
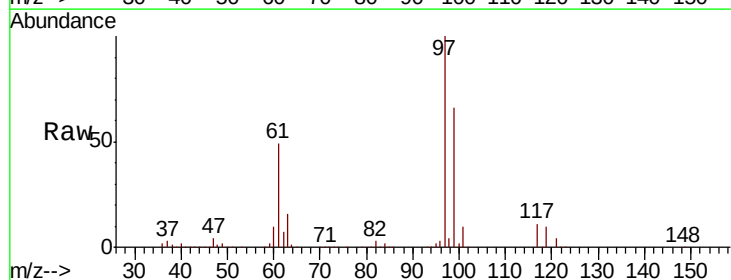
Tgt Ion: 97 Resp: 1378025

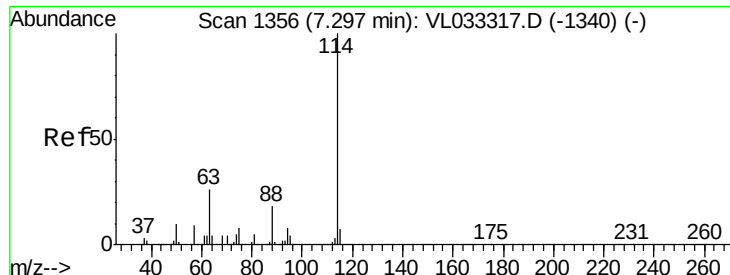
Ion Ratio Lower Upper

97 100

99 64.8 51.8 77.8

61 49.6 39.6 59.4

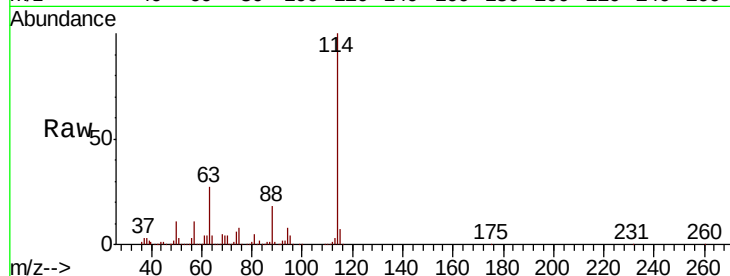




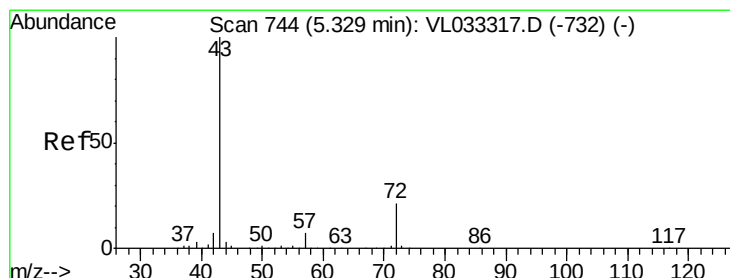
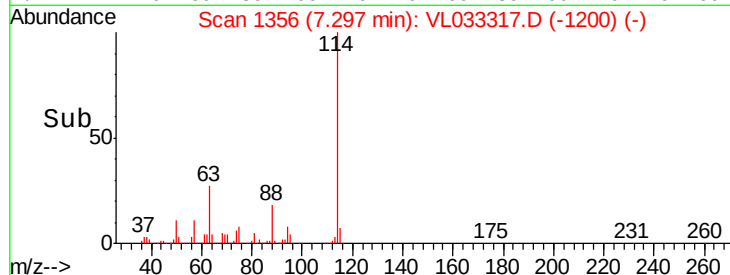
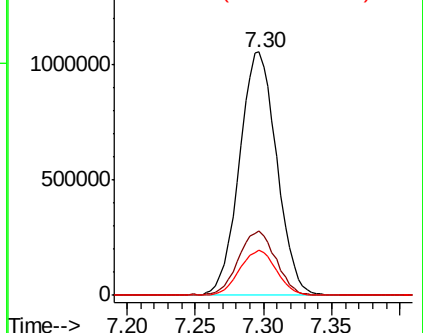
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. 0.00 min
 Lab File: VL033317.D
 Acq: 15 Mar 2019 2:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion:114 Resp: 1999073
 Ion Ratio Lower Upper
 114 100
 63 26.9 21.5 32.3
 88 18.4 14.6 22.0

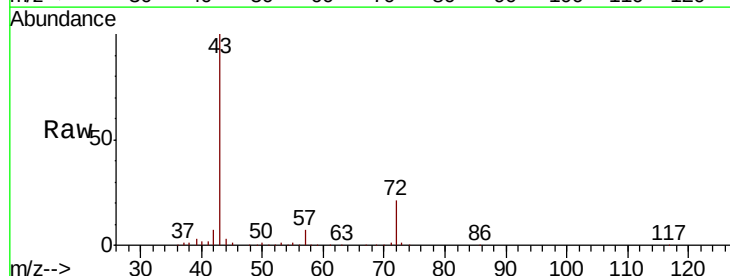


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

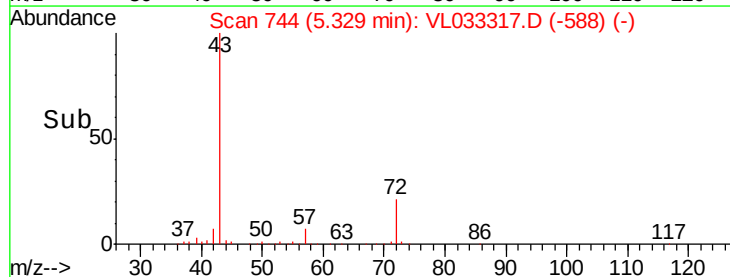
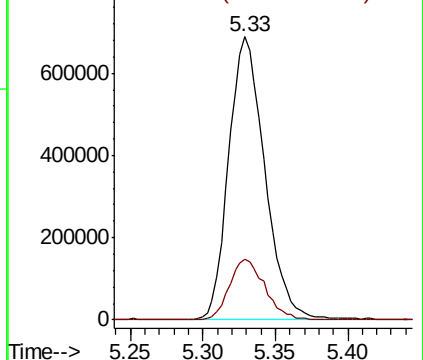


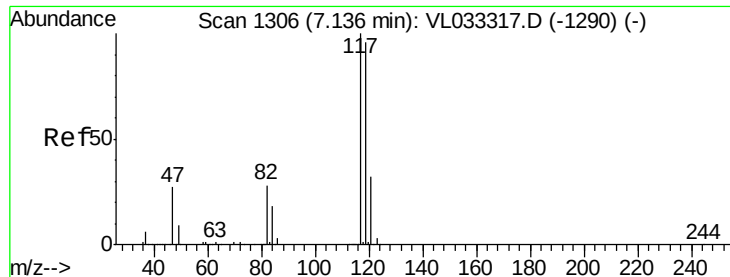
#34
 2-Butanone
 Concen: 8.751 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. 0.00 min
 Lab File: VL033317.D
 Acq: 15 Mar 2019 2:55

Tgt Ion: 43 Resp: 1178489
 Ion Ratio Lower Upper
 43 100
 72 21.3 17.1 25.7



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





#35

Carbon Tetrachloride

Concen: 9.416 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

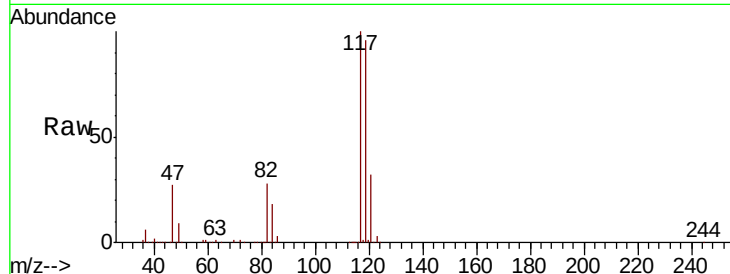
Tgt Ion:117 Resp: 1441635

Ion Ratio Lower Upper

117 100

119 96.0 76.8 115.2

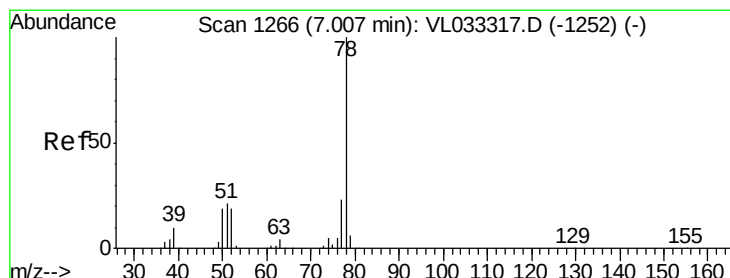
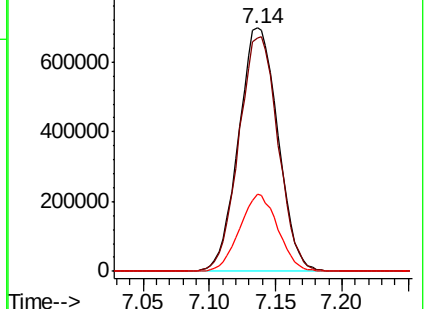
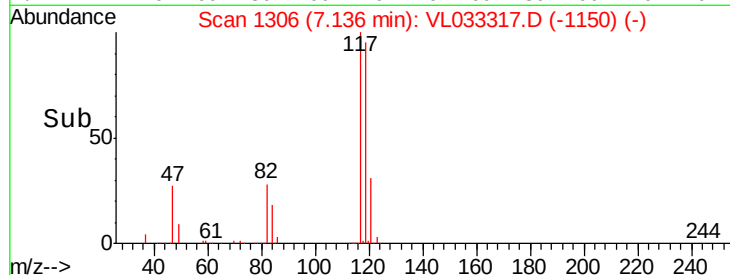
121 31.5 25.2 37.8



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: 9.032 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

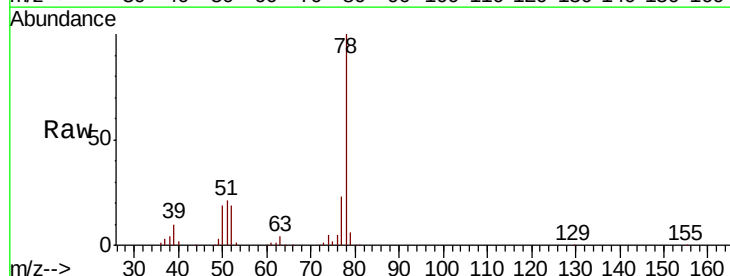
Tgt Ion: 78 Resp: 1748146

Ion Ratio Lower Upper

78 100

77 22.5 18.0 27.0

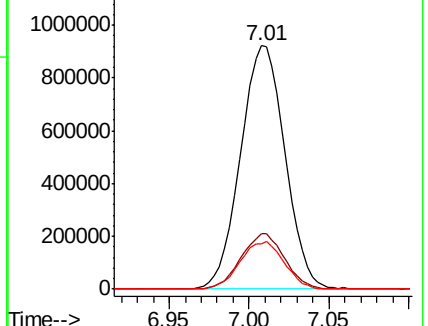
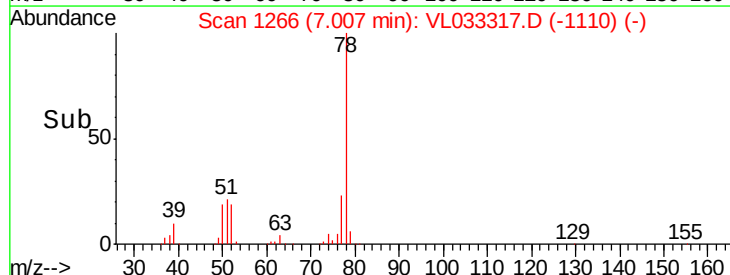
50 18.7 15.0 22.4

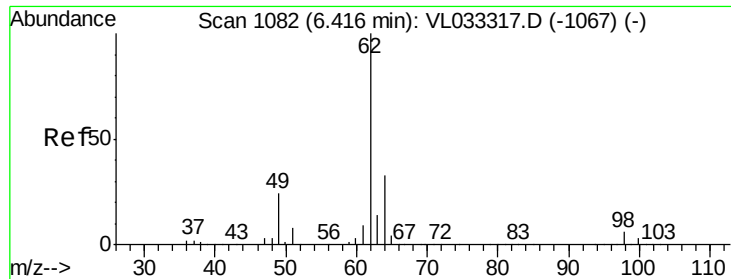


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

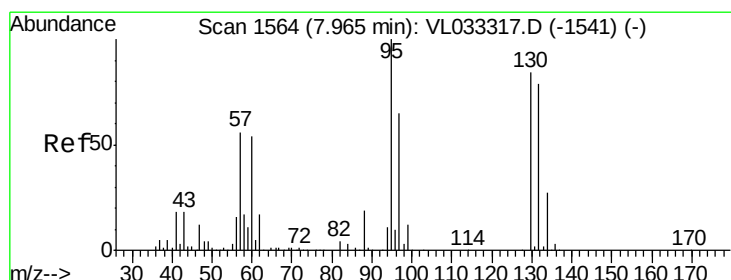
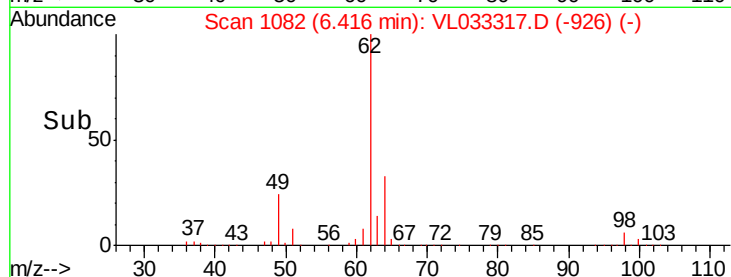
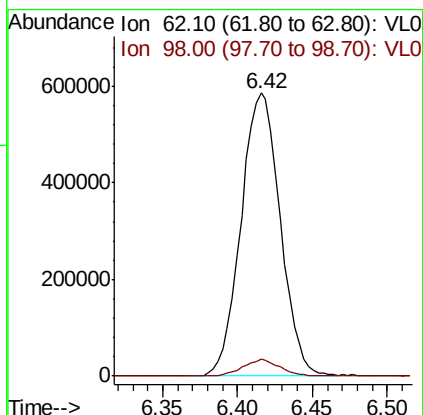
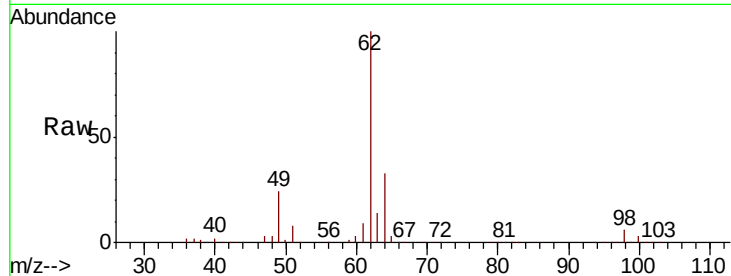




#37
 1,2-Dichloroethane
 Concen: 9.149 ppbv
 RT: 6.42 min Scan# 1082
 Delta R.T. 0.00 min
 Lab File: VL033317.D
 Acq: 15 Mar 2019 2:55

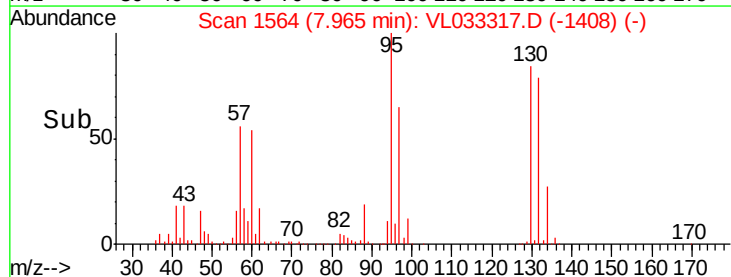
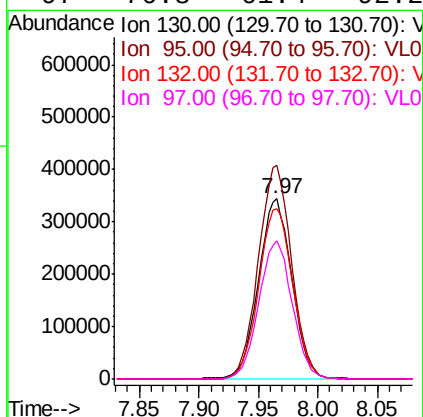
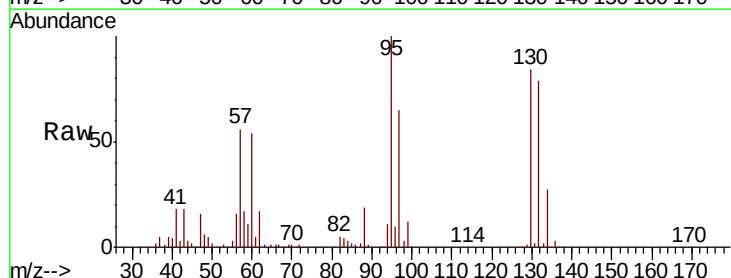
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

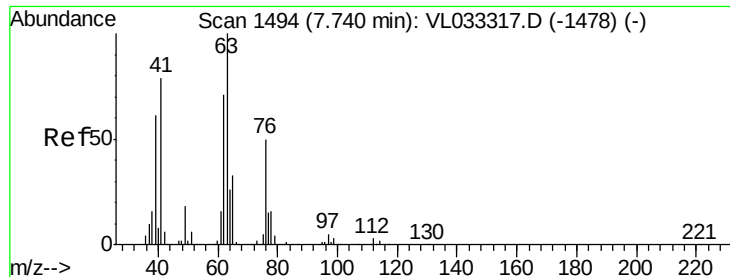
Tgt Ion: 62 Resp: 1070614
 Ion Ratio Lower Upper
 62 100
 98 5.7 4.6 6.8



#38
 Trichloroethene
 Concen: 8.670 ppbv
 RT: 7.97 min Scan# 1564
 Delta R.T. 0.00 min
 Lab File: VL033317.D
 Acq: 15 Mar 2019 2:55

Tgt Ion: 130 Resp: 669608
 Ion Ratio Lower Upper
 130 100
 95 118.6 94.9 142.3
 132 94.2 75.4 113.0
 97 76.8 61.4 92.2





#39

1,2-Dichloropropane

Concen: 8.880 ppbv

RT: 7.74 min Scan# 1494

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

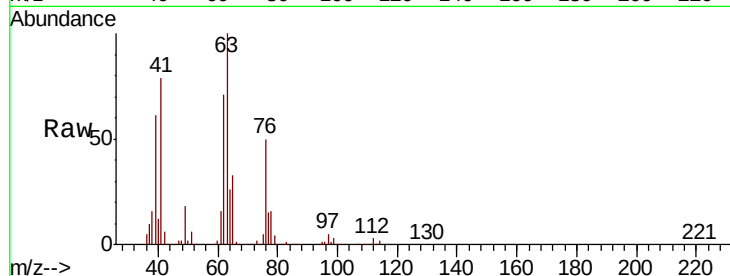
Tgt Ion: 63 Resp: 660227

Ion Ratio Lower Upper

63 100

41 79.4 63.5 95.3

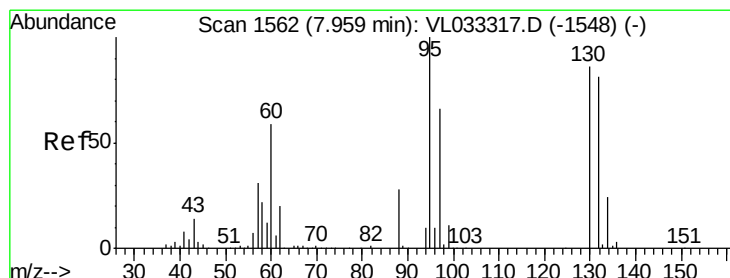
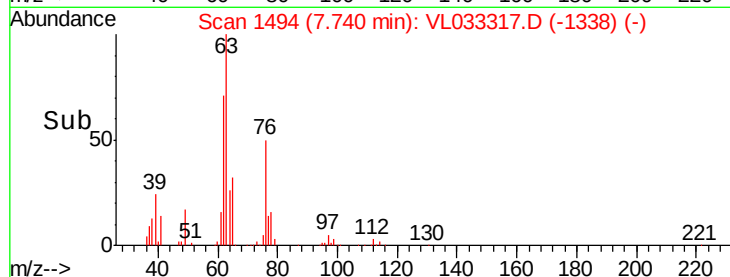
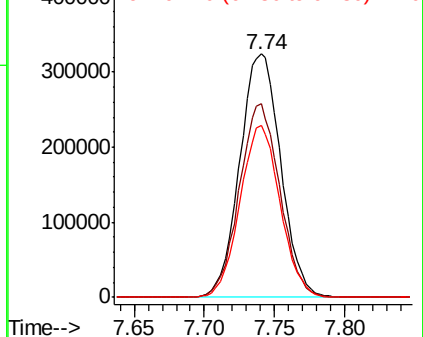
62 70.6 56.5 84.7



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: 8.607 ppbv

RT: 7.96 min Scan# 1562

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

Tgt Ion: 88 Resp: 229602

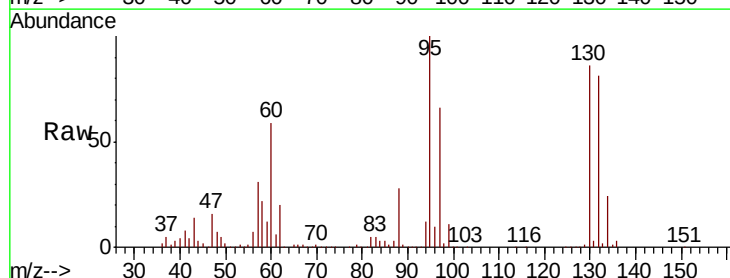
Ion Ratio Lower Upper

88 100

58 135.9 108.7 163.1

43 0.0 0.0 0.0

57 0.0 0.0 0.0

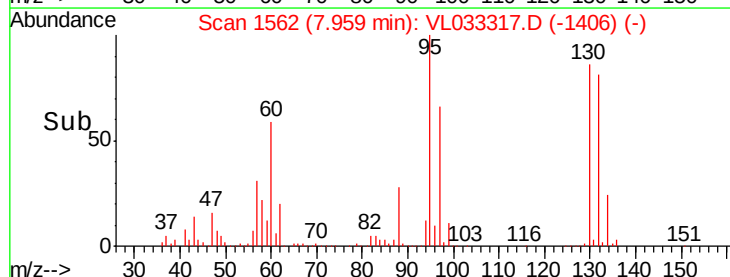
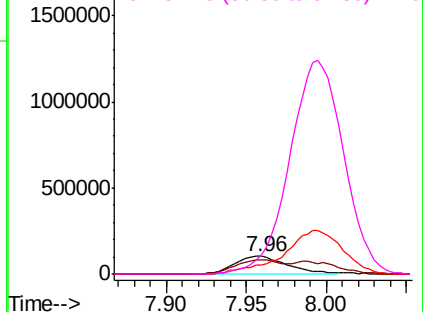


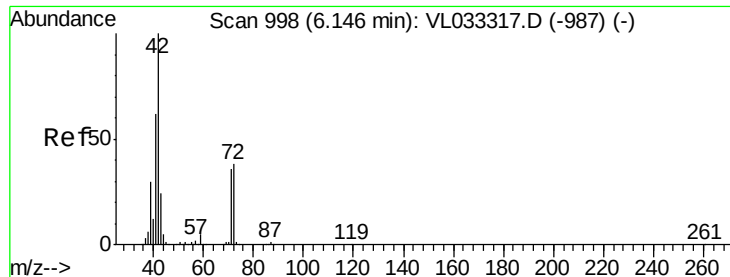
Abundance Ion 88.10 (87.80 to 88.80): VL0

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: 9.366 ppbv

RT: 6.15 min Scan# 998

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

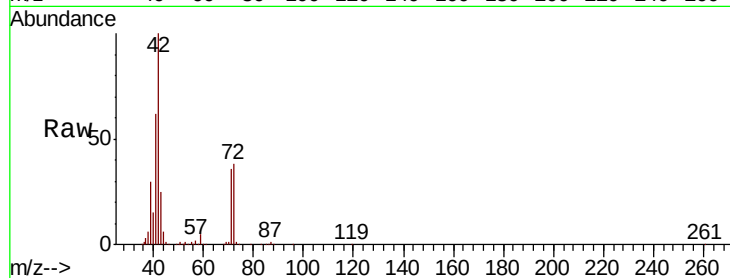
Tgt Ion: 42 Resp: 711135

Ion Ratio Lower Upper

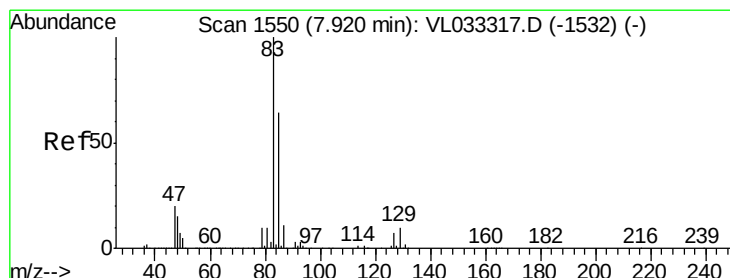
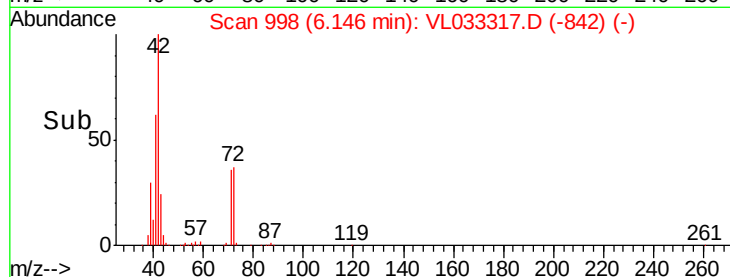
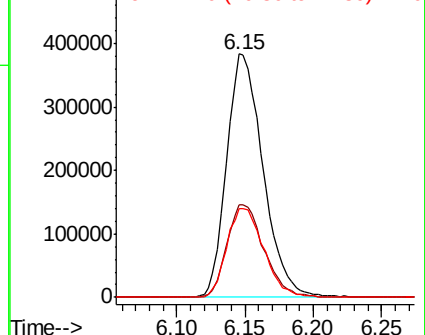
42 100

72 38.9 31.2 46.8

71 37.4 29.9 44.9



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: 9.702 ppbv

RT: 7.92 min Scan# 1550

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

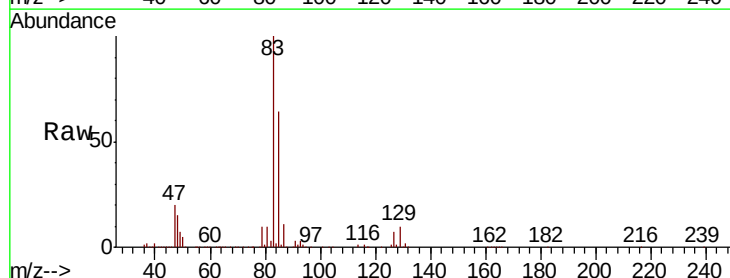
Tgt Ion: 83 Resp: 1591121

Ion Ratio Lower Upper

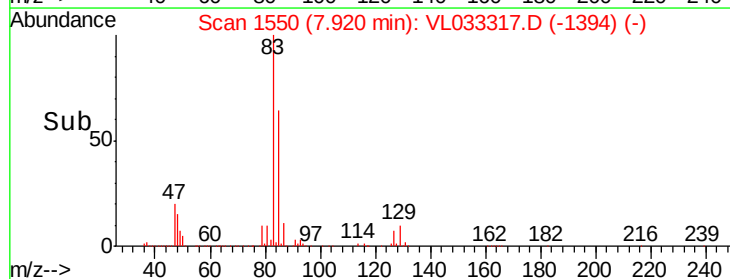
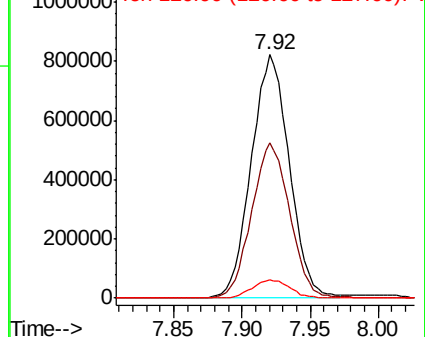
83 100

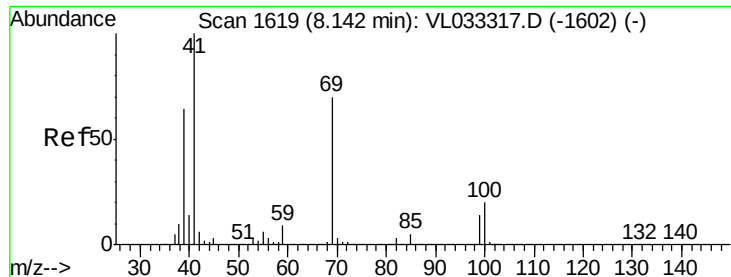
85 63.9 51.1 76.7

127 7.5 6.0 9.0



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

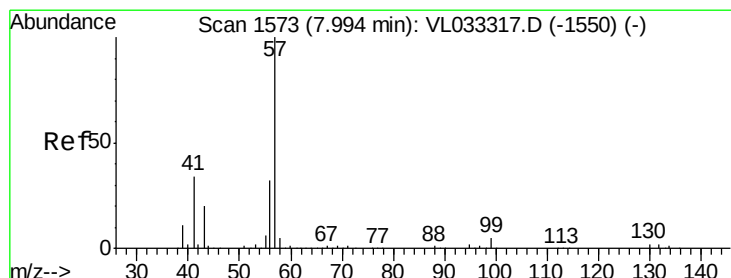
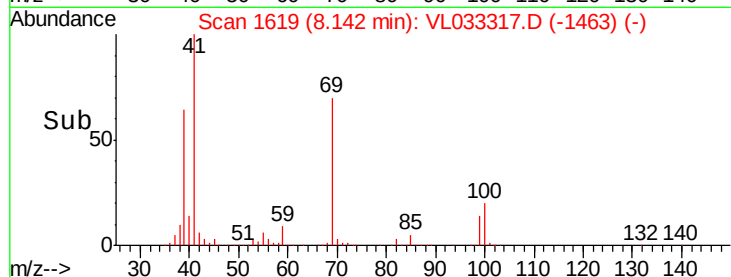
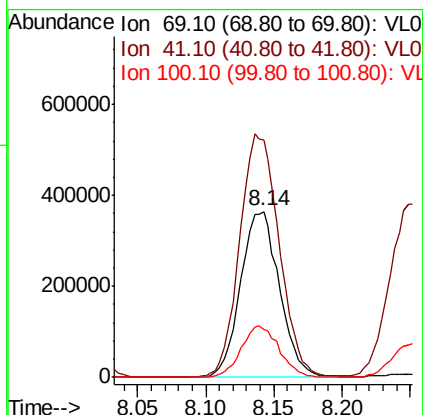
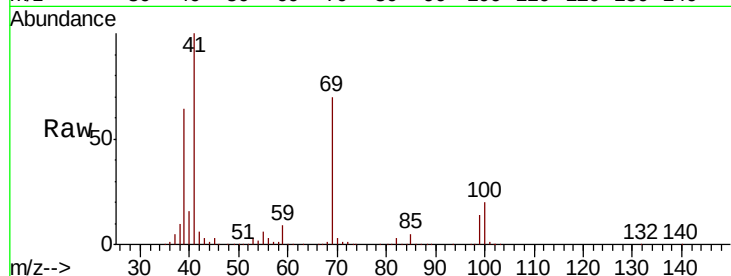




#43
Methyl Methacrylate
Concen: 9.352 ppbv
RT: 8.14 min Scan# 1619
Delta R.T. 0.00 min
Lab File: VL033317.D
Acq: 15 Mar 2019 2:55

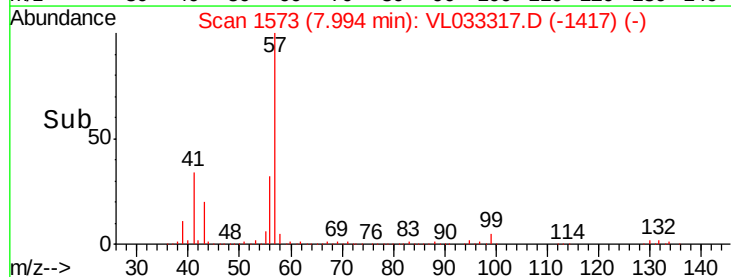
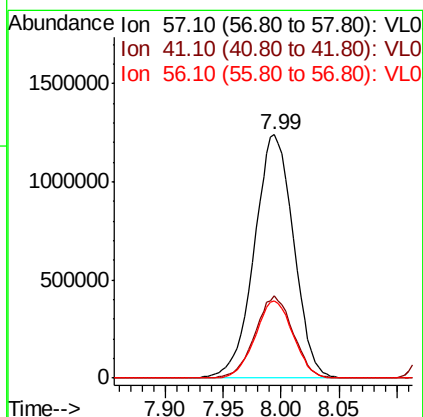
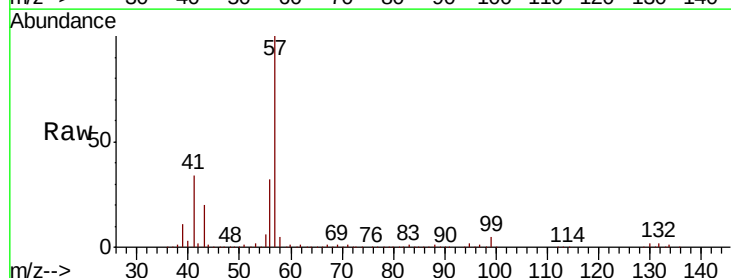
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

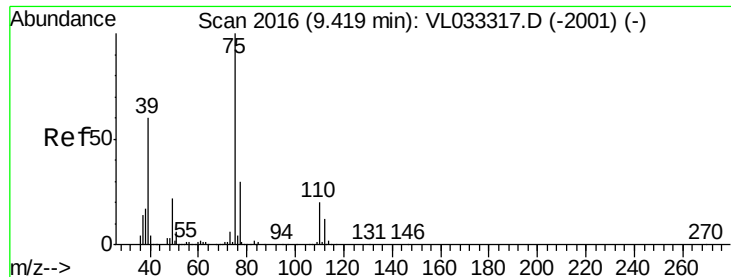
Tgt Ion: 69 Resp: 721428
Ion Ratio Lower Upper
69 100
41 148.9 119.0 178.4
100 30.3 24.3 36.5



#44
2,2,4-Trimethylpentane
Concen: 8.797 ppbv
RT: 7.99 min Scan# 1573
Delta R.T. 0.00 min
Lab File: VL033317.D
Acq: 15 Mar 2019 2:55

Tgt Ion: 57 Resp: 2920325
Ion Ratio Lower Upper
57 100
41 32.6 26.1 39.1
56 30.9 24.7 37.1





#45

t-1,3-Dichloropropene

Concen: 10.811 ppbv

RT: 9.42 min Scan# 2016

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

Instrument :

MSVOA_L

ClientSampleId :

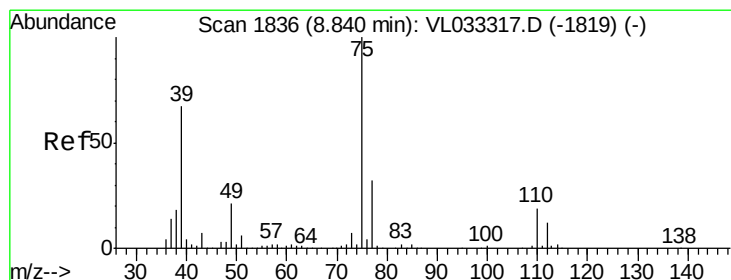
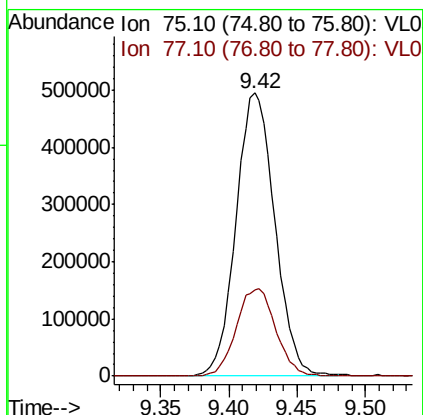
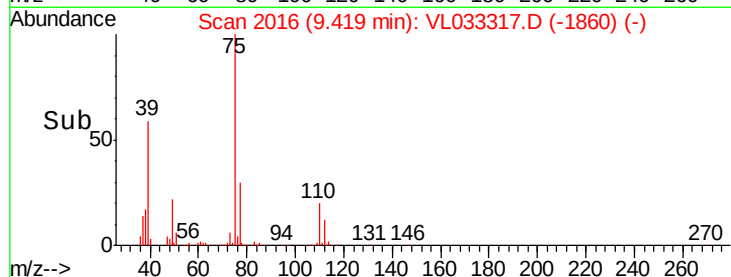
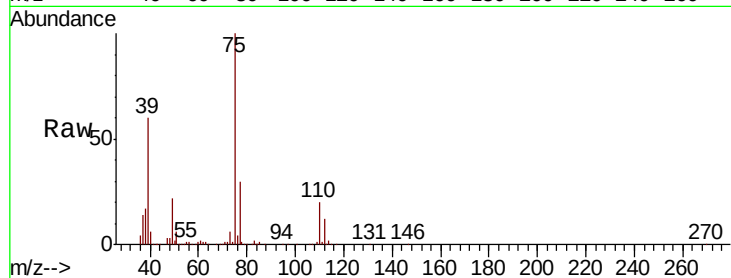
VSTDICCC010

Tgt Ion: 75 Resp: 978700

Ion Ratio Lower Upper

75 100

77 30.3 24.2 36.4



#46

cis-1,3-Dichloropropene

Concen: 9.988 ppbv

RT: 8.84 min Scan# 1836

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

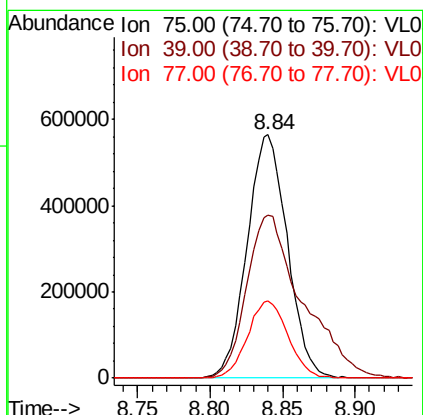
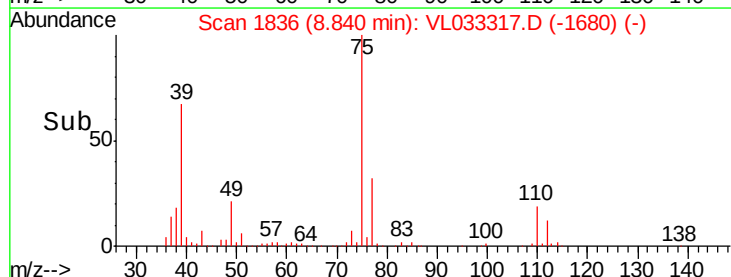
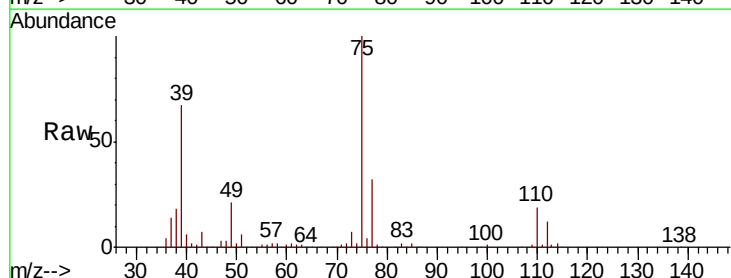
Tgt Ion: 75 Resp: 1088915

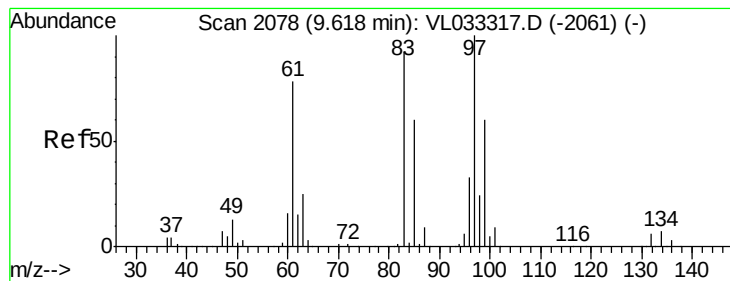
Ion Ratio Lower Upper

75 100

39 67.1 53.7 80.5

77 31.9 25.5 38.3





#47

1,1,2-Trichloroethane

Concen: 9.063 ppbv

RT: 9.62 min Scan# 2078

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 97 Resp: 720558

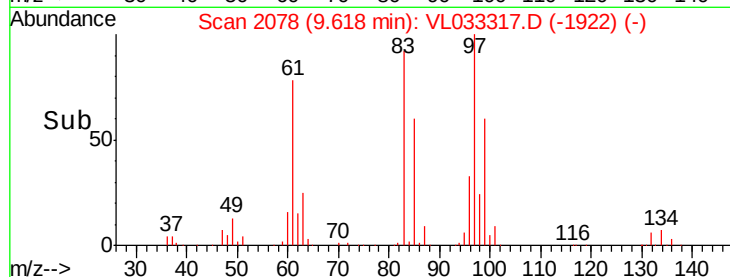
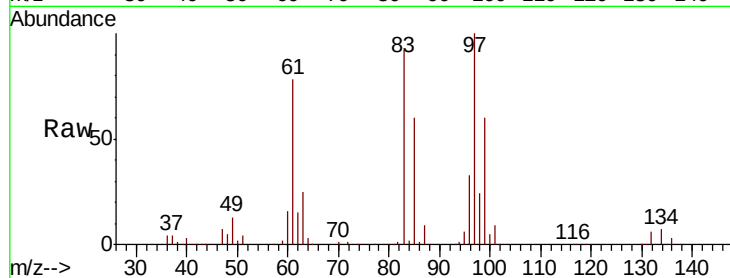
Ion Ratio Lower Upper

97 100

83 92.0 73.6 110.4

85 60.0 48.0 72.0

99 60.1 48.1 72.1



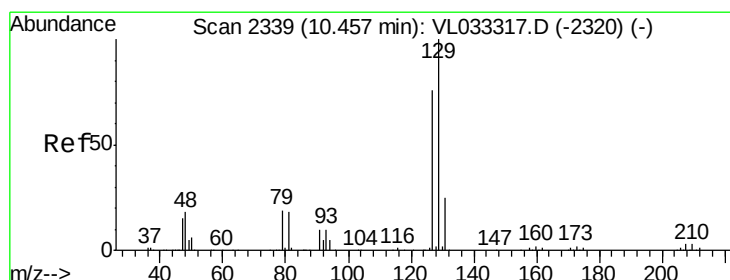
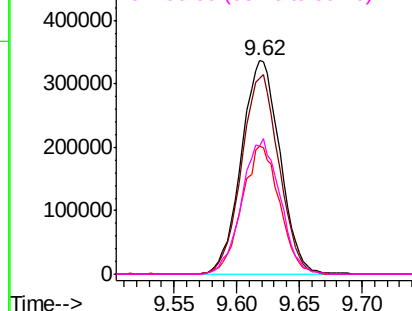
Abundance

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: 10.610 ppbv

RT: 10.46 min Scan# 2339

Delta R.T. 0.00 min

Lab File: VL033317.D

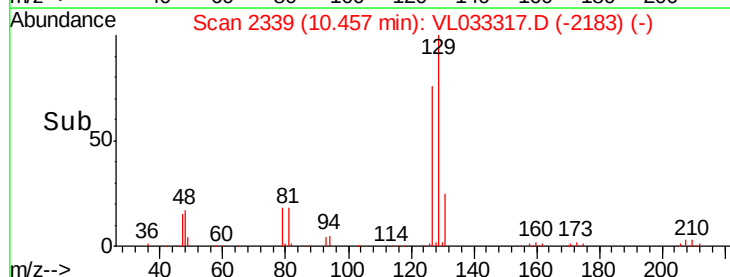
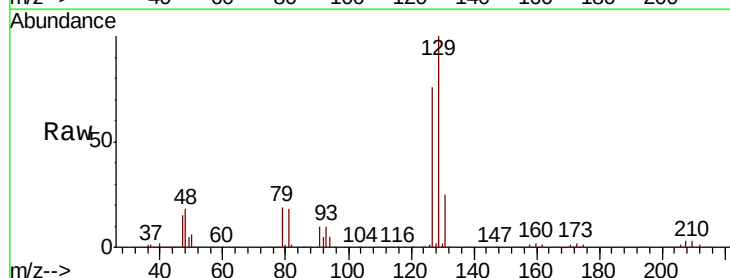
Acq: 15 Mar 2019 2:55

Tgt Ion: 129 Resp: 1424446

Ion Ratio Lower Upper

129 100

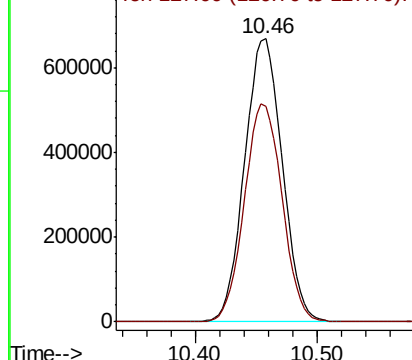
127 77.4 38.7 116.1

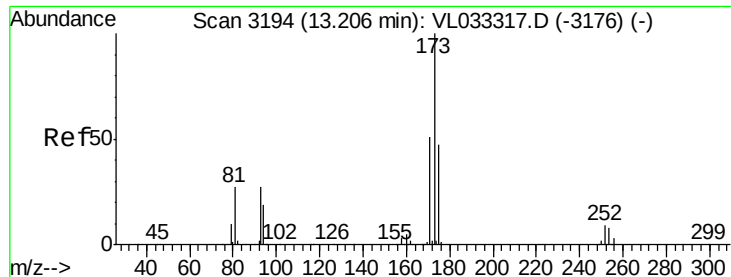


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 11.240 ppbv

RT: 13.21 min Scan# 3194

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

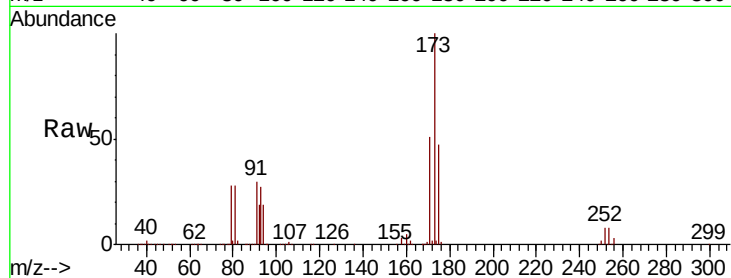
Tgt Ion:173 Resp: 1278778

Ion Ratio Lower Upper

173 100

175 48.2 38.6 58.0

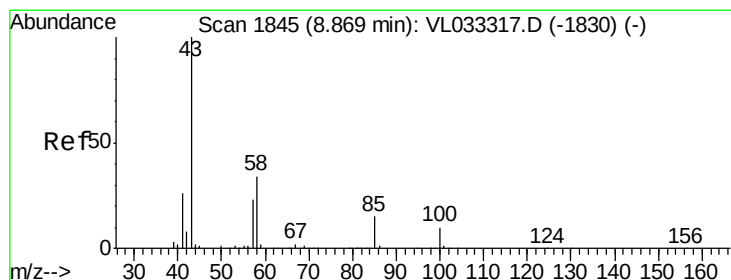
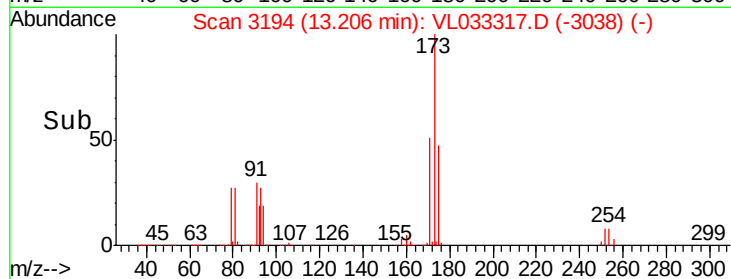
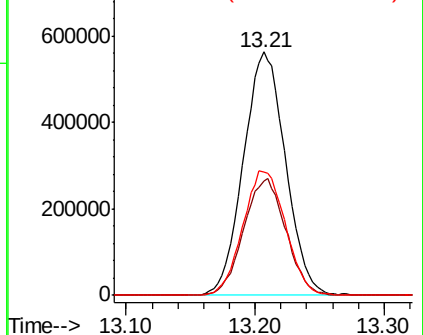
171 51.9 41.5 62.3



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.095 ppbv

RT: 8.87 min Scan# 1845

Delta R.T. 0.00 min

Lab File: VL033317.D

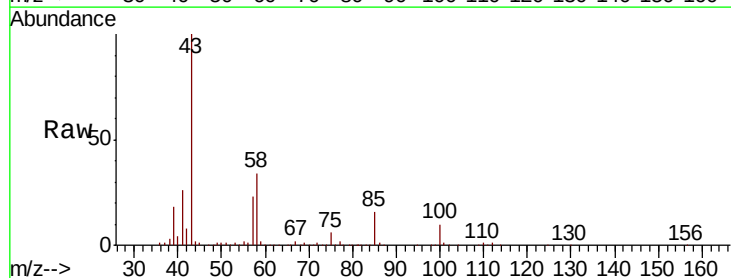
Acq: 15 Mar 2019 2:55

Tgt Ion: 43 Resp: 1803715

Ion Ratio Lower Upper

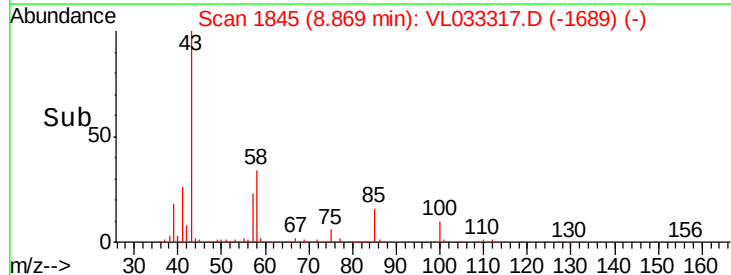
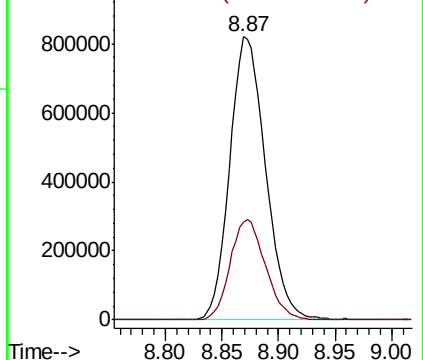
43 100

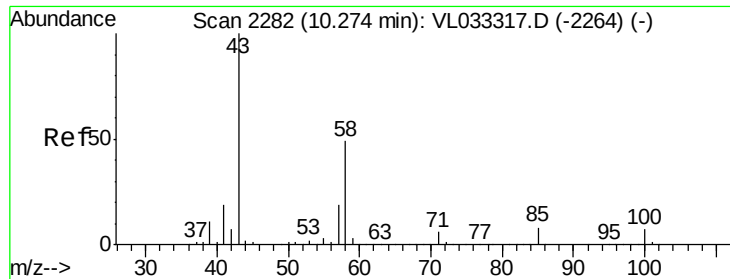
58 35.2 28.2 42.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

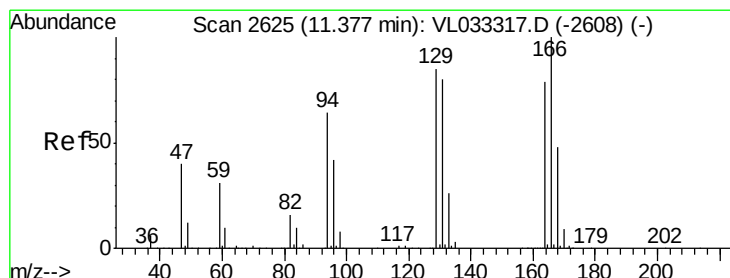
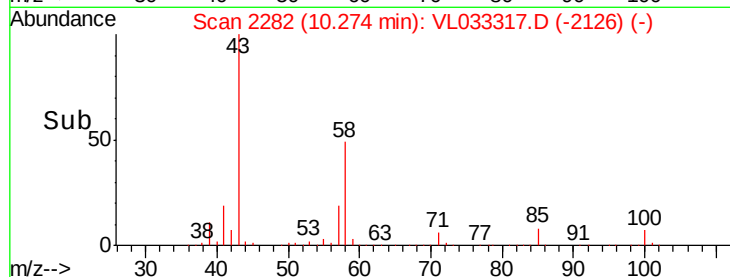
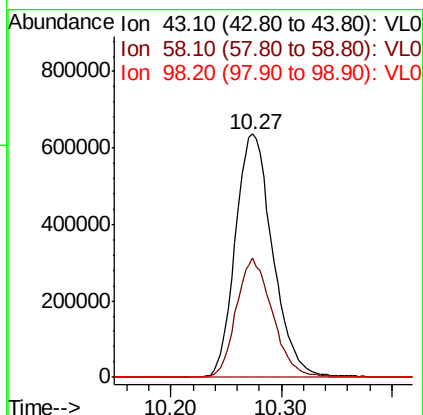
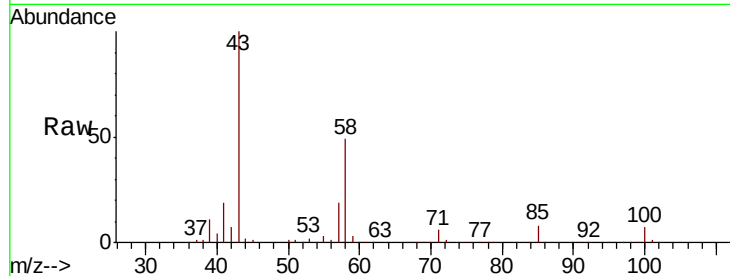




#51
2-Hexanone
Concen: 9.781 ppbv
RT: 10.27 min Scan# 2282
Delta R.T. 0.00 min
Lab File: VL033317.D
Acq: 15 Mar 2019 2:55

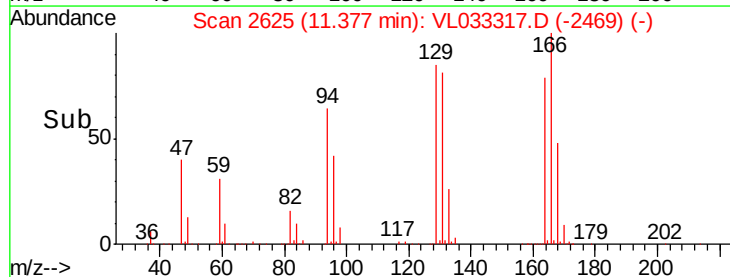
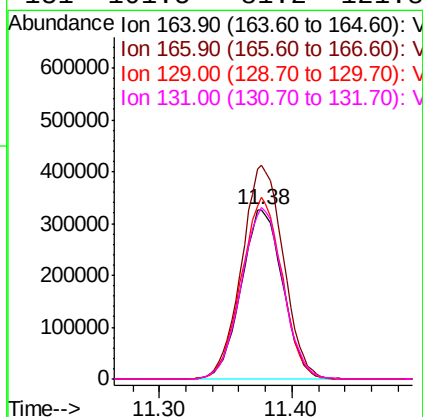
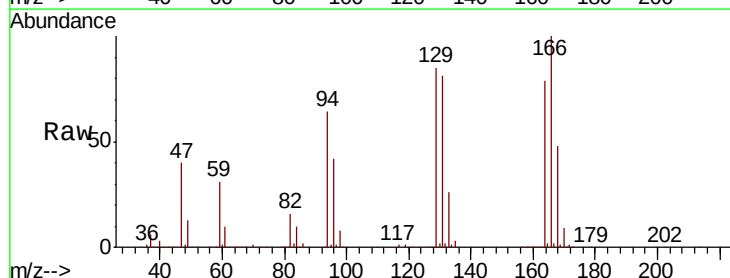
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

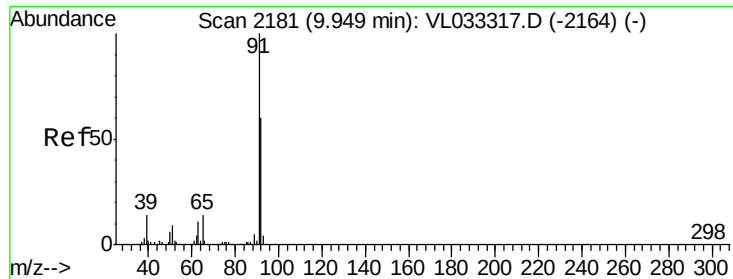
Tgt Ion: 43 Resp: 1493051
Ion Ratio Lower Upper
43 100
58 47.3 38.0 57.0
98 0.2 0.1 0.1#



#52
Tetrachloroethene
Concen: 8.902 ppbv
RT: 11.38 min Scan# 2625
Delta R.T. 0.00 min
Lab File: VL033317.D
Acq: 15 Mar 2019 2:55

Tgt Ion: 164 Resp: 710324
Ion Ratio Lower Upper
164 100
166 126.1 100.9 151.3
129 107.5 86.0 129.0
131 101.5 81.2 121.8





#53

Toluene

Concen: 9.334 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

Instrument :

MSVOA_L

ClientSampleId :

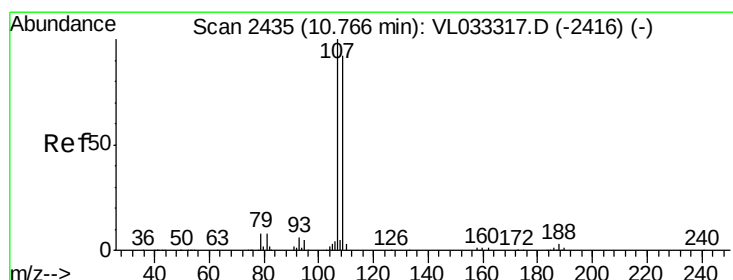
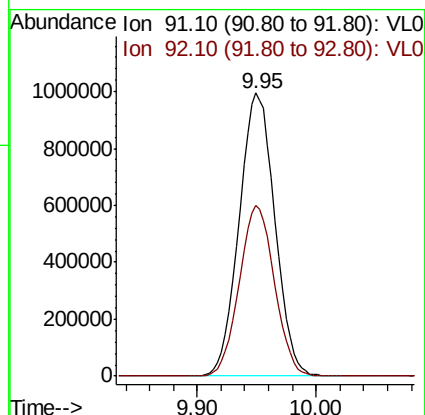
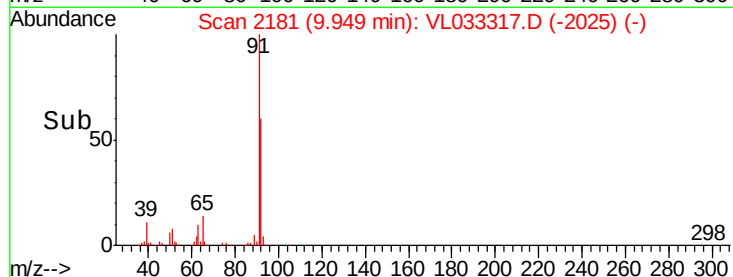
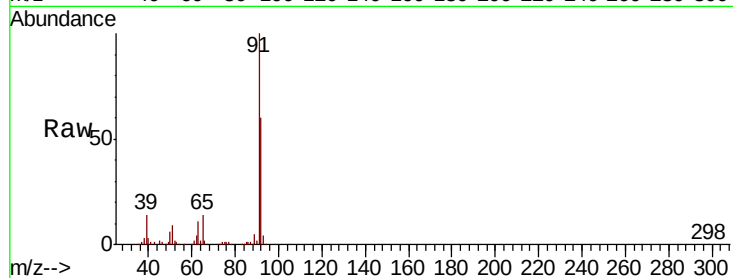
VSTDICCC010

Tgt Ion: 91 Resp: 2066480

Ion Ratio Lower Upper

91 100

92 59.5 47.5 71.3



#54

1,2-Dibromoethane

Concen: 9.839 ppbv

RT: 10.77 min Scan# 2435

Delta R.T. 0.00 min

Lab File: VL033317.D

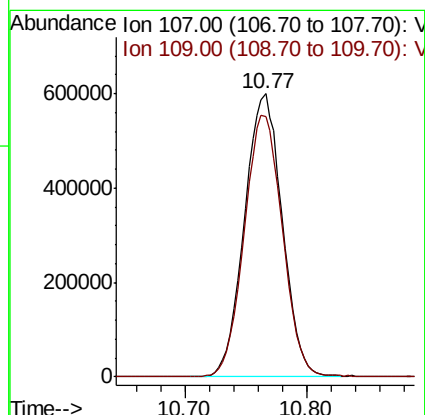
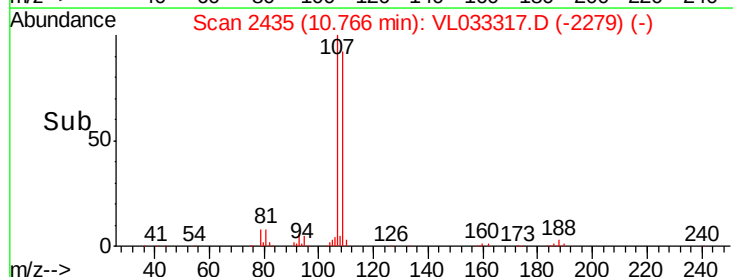
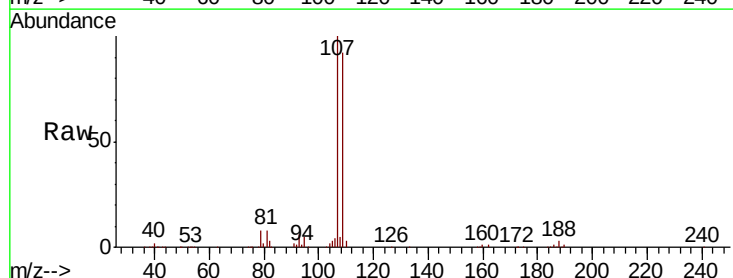
Acq: 15 Mar 2019 2:55

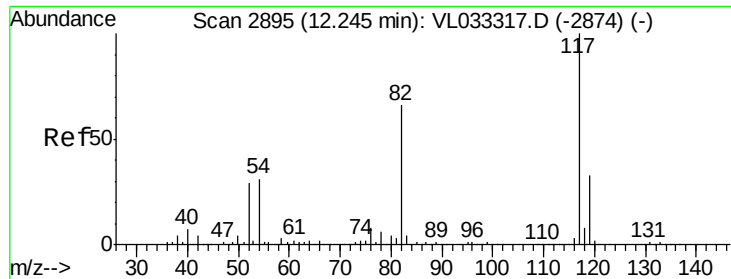
Tgt Ion: 107 Resp: 1278597

Ion Ratio Lower Upper

107 100

109 92.0 73.6 110.4

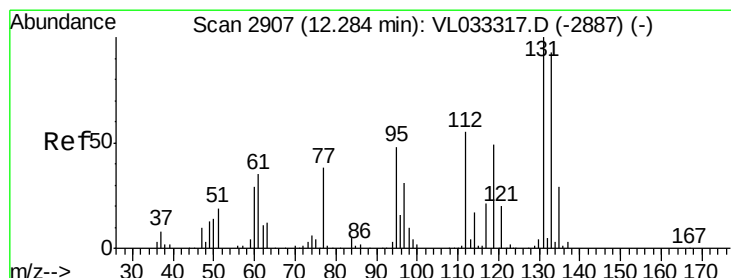
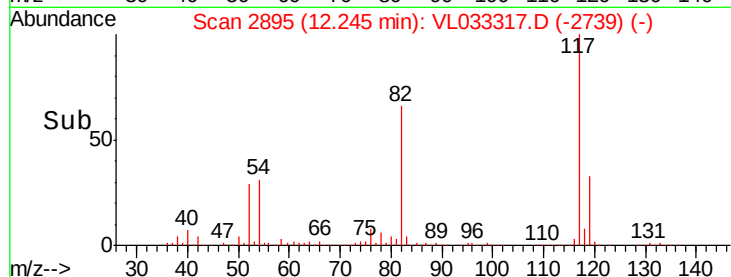
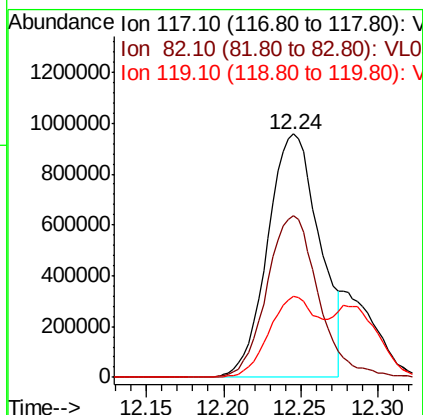
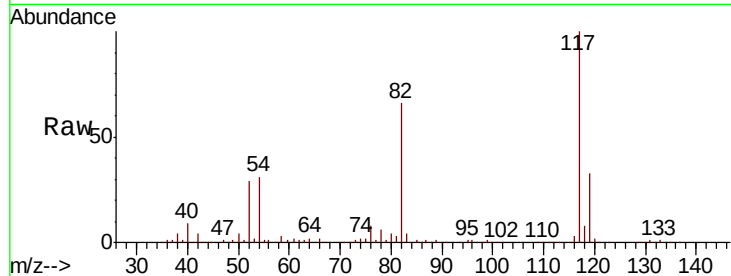




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2895
Delta R.T. 0.00 min
Lab File: VL033317.D
Acq: 15 Mar 2019 2:55

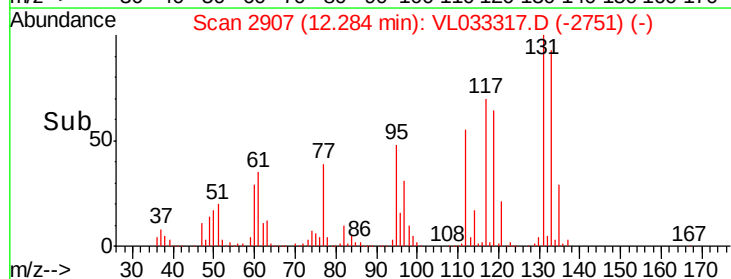
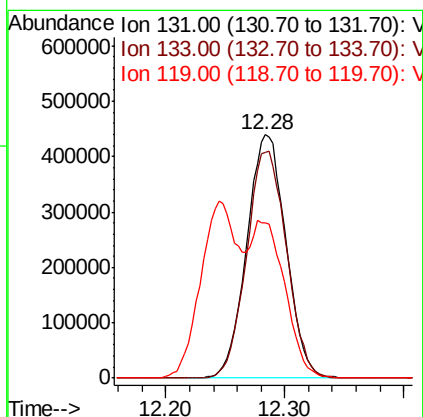
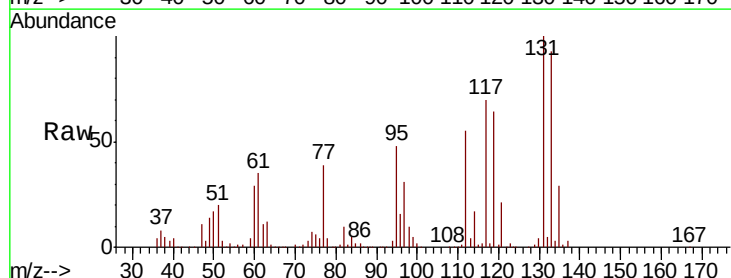
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

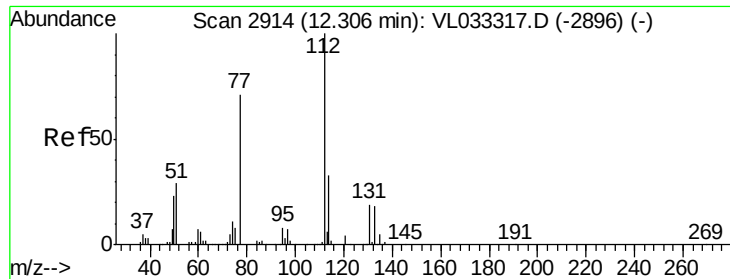
Tgt Ion:117 Resp: 2230993
Ion Ratio Lower Upper
117 100
82 66.5 53.3 79.9
119 30.6 27.7 41.5



#56
1,1,1,2-Tetrachloroethane
Concen: 9.927 ppbv
RT: 12.28 min Scan# 2907
Delta R.T. 0.00 min
Lab File: VL033317.D
Acq: 15 Mar 2019 2:55

Tgt Ion:131 Resp: 1001000
Ion Ratio Lower Upper
131 100
133 95.2 76.2 114.2
119 56.4 48.5 72.7

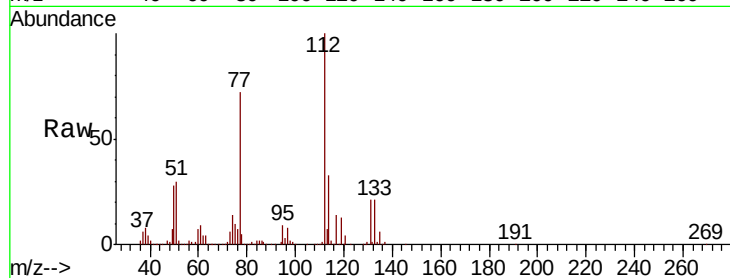




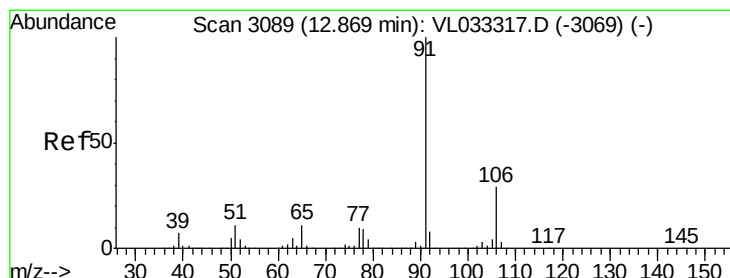
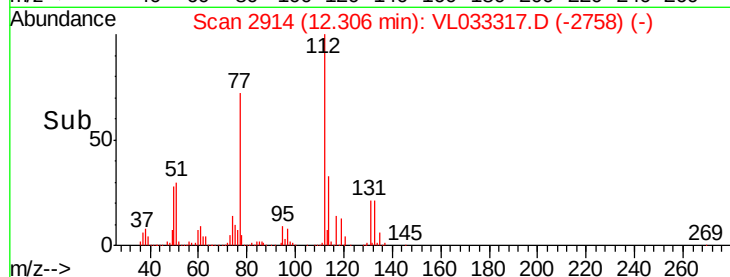
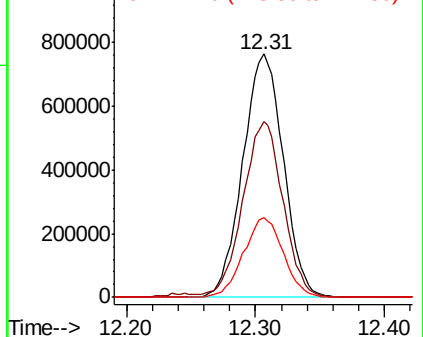
#57
Chlorobenzene
Concen: 9.282 ppbv
RT: 12.31 min Scan# 2914
Delta R.T. 0.00 min
Lab File: VL033317.D
Acq: 15 Mar 2019 2:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 112 Resp: 1678353
Ion Ratio Lower Upper
112 100
77 71.9 57.5 86.3
114 33.0 29.7 36.3

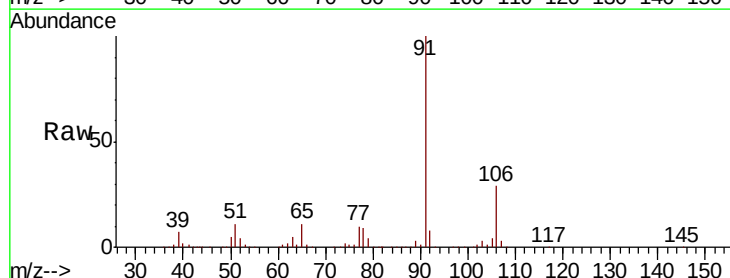


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

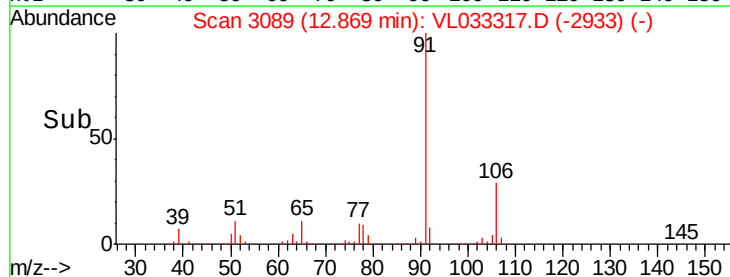
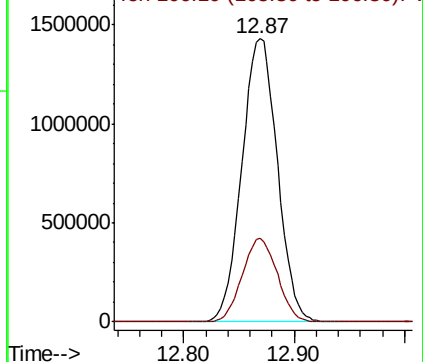


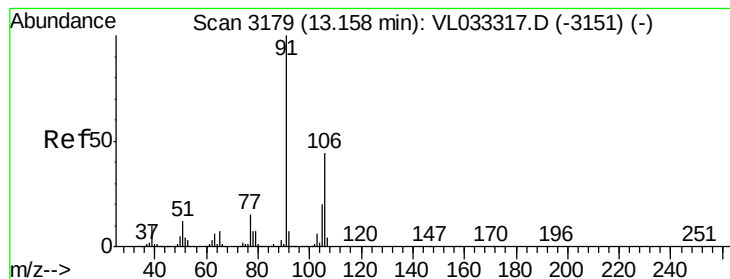
#58
Ethyl Benzene
Concen: 9.912 ppbv
RT: 12.87 min Scan# 3089
Delta R.T. 0.00 min
Lab File: VL033317.D
Acq: 15 Mar 2019 2:55

Tgt Ion: 91 Resp: 3187406
Ion Ratio Lower Upper
91 100
106 29.5 23.6 35.4



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





#59

m/p-Xylene

Concen: 5.692 ppbv

RT: 13.16 min Scan# 3179

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

Instrument :

MSVOA_L

ClientSampleId :

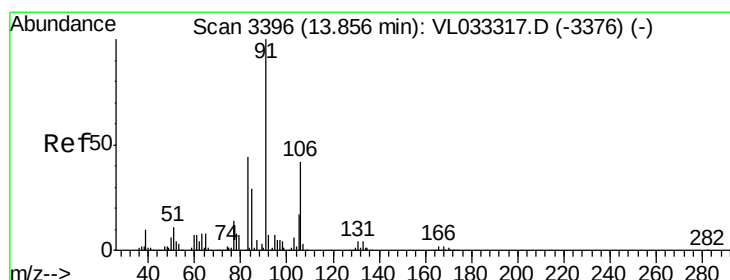
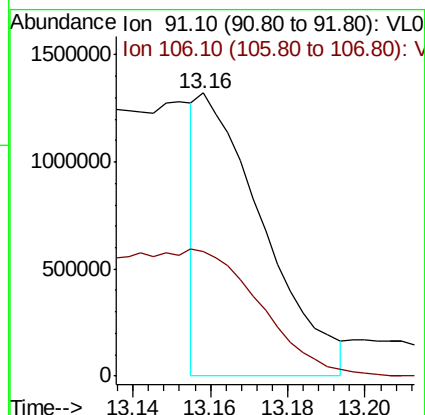
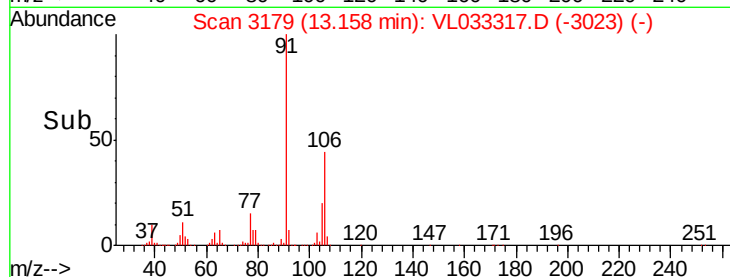
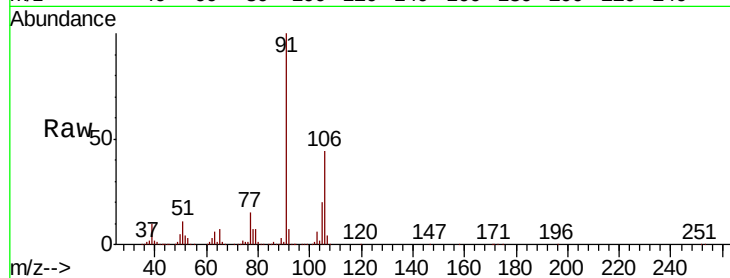
VSTDICCC010

Tgt Ion: 91 Resp: 1538740

Ion Ratio Lower Upper

91 100

106 153.0 35.6 53.4#



#60

o-Xylene

Concen: 9.898 ppbv

RT: 13.86 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VL033317.D

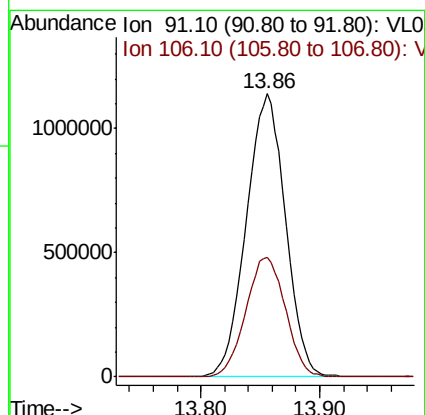
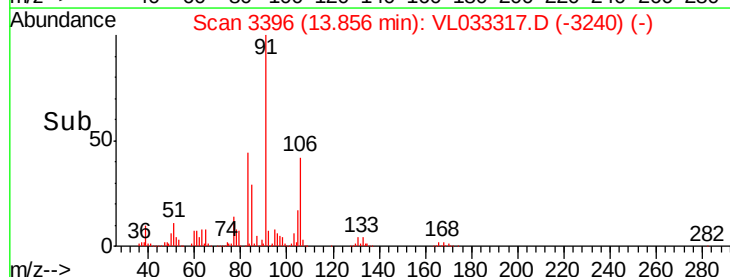
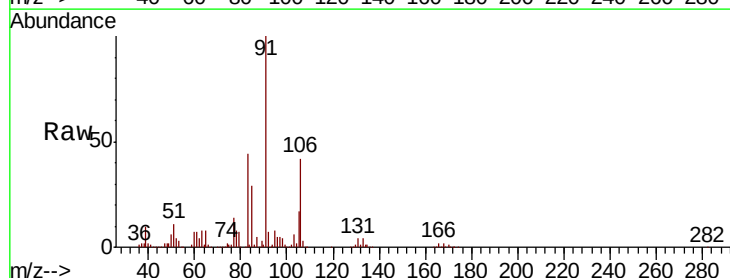
Acq: 15 Mar 2019 2:55

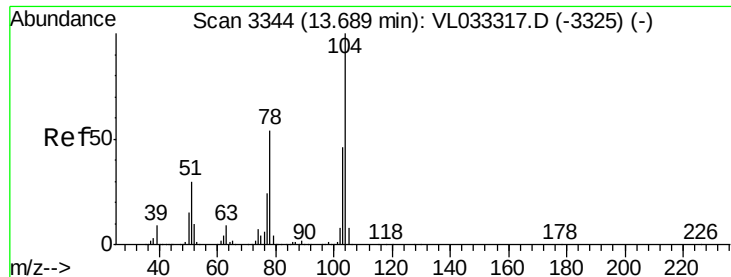
Tgt Ion: 91 Resp: 2590821

Ion Ratio Lower Upper

91 100

106 43.0 21.5 64.5





#61

Styrene

Concen: 10.607 ppbv

RT: 13.69 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

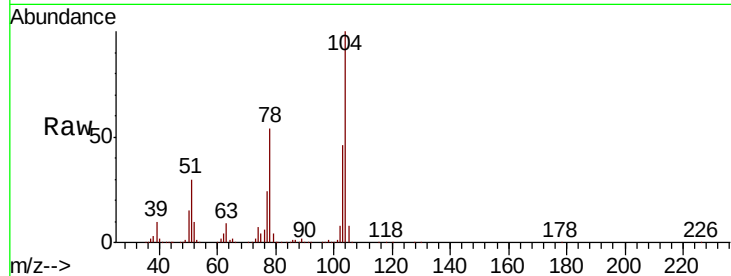
Tgt Ion:104 Resp: 1943025

Ion Ratio Lower Upper

104 100

78 54.2 43.4 65.0

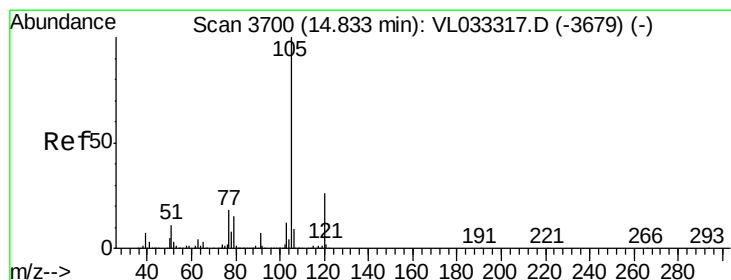
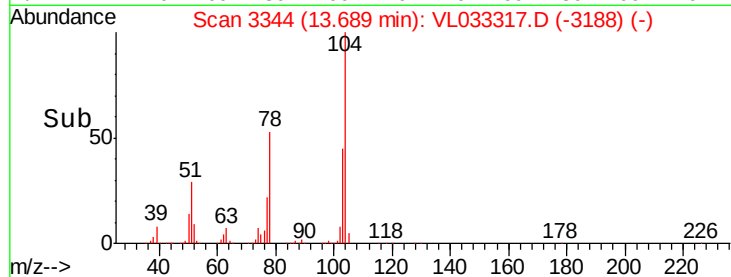
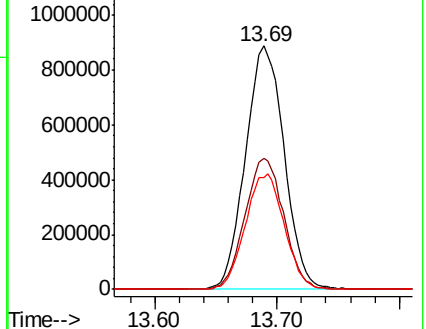
103 47.8 38.2 57.4



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.829 ppbv

RT: 14.83 min Scan# 3700

Delta R.T. 0.00 min

Lab File: VL033317.D

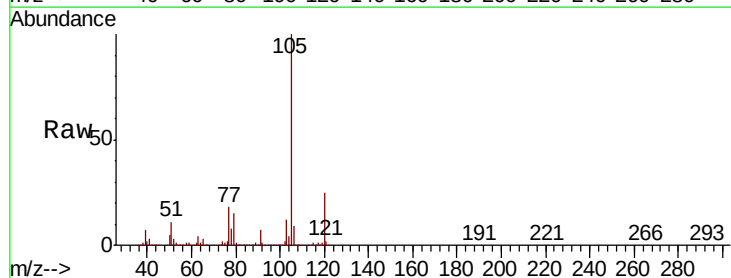
Acq: 15 Mar 2019 2:55

Tgt Ion:105 Resp: 3612058

Ion Ratio Lower Upper

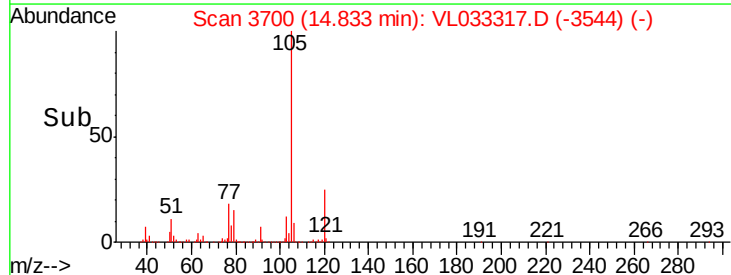
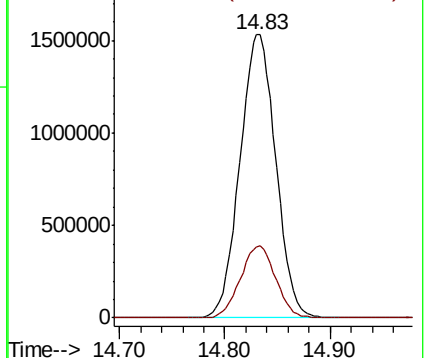
105 100

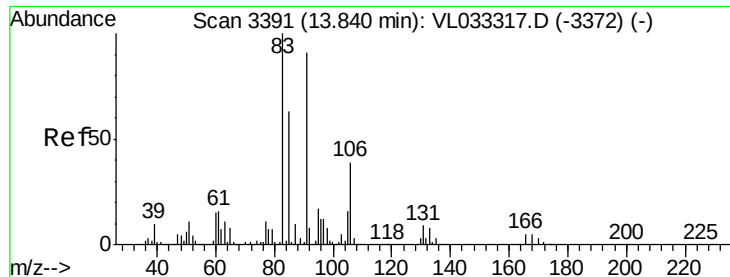
120 25.1 20.1 30.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

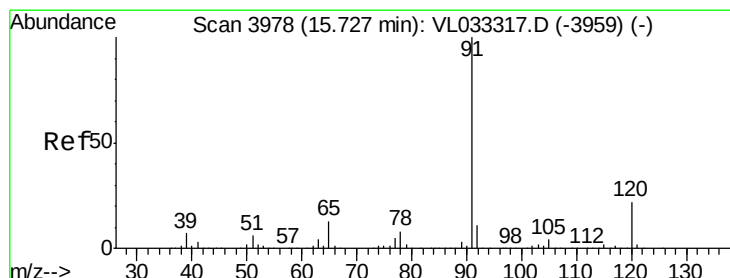
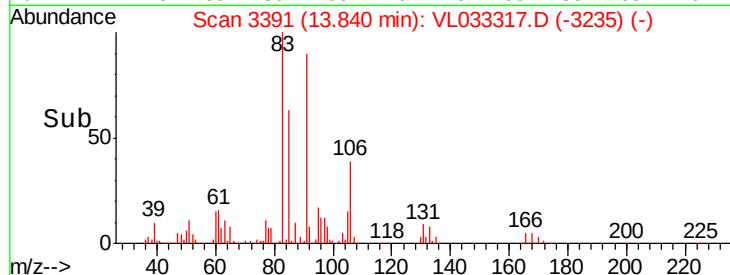
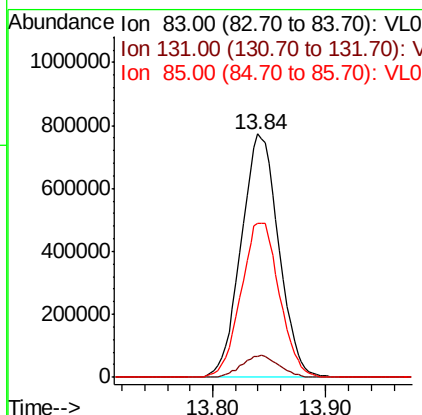
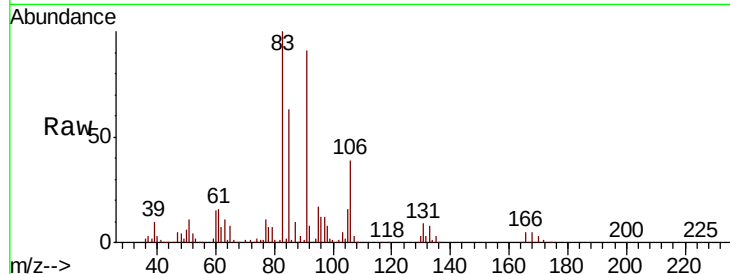




#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.473 ppbv
 RT: 13.84 min Scan# 3391
 Delta R.T. 0.00 min
 Lab File: VL033317.D
 Acq: 15 Mar 2019 2:55

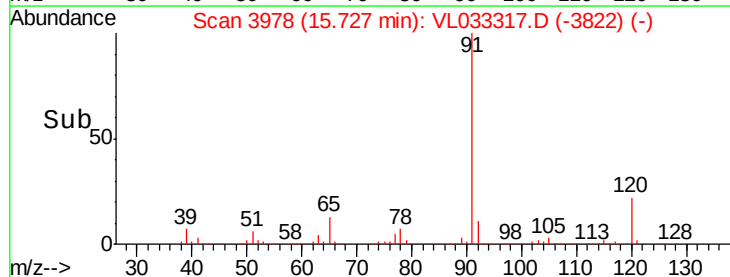
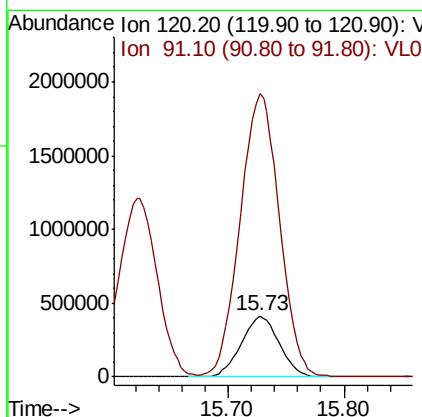
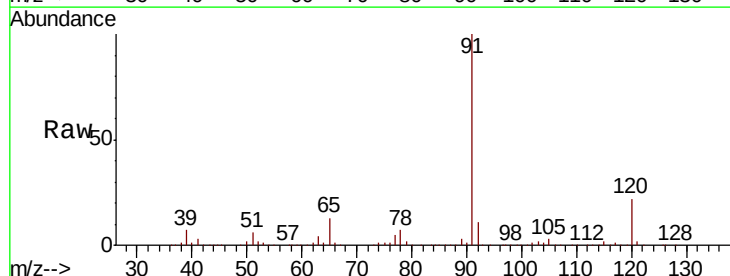
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

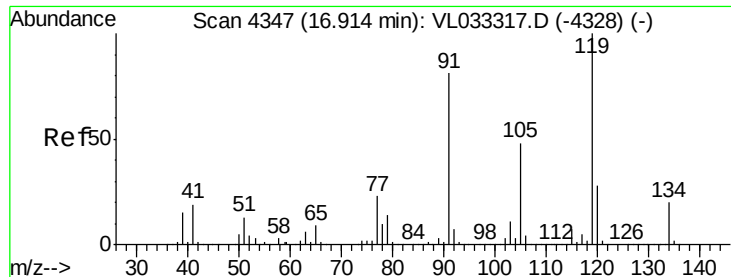
Tgt Ion: 83 Resp: 1785219
 Ion Ratio Lower Upper
 83 100
 131 9.0 4.5 13.5
 85 65.0 32.5 97.5



#64
 n-propylbenzene
 Concen: 10.249 ppbv
 RT: 15.73 min Scan# 3978
 Delta R.T. 0.00 min
 Lab File: VL033317.D
 Acq: 15 Mar 2019 2:55

Tgt Ion: 120 Resp: 936851
 Ion Ratio Lower Upper
 120 100
 91 484.0 387.4 581.0

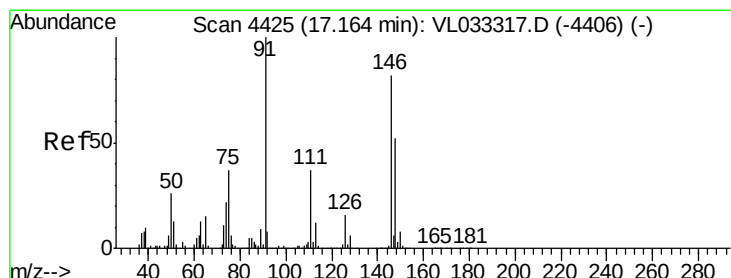
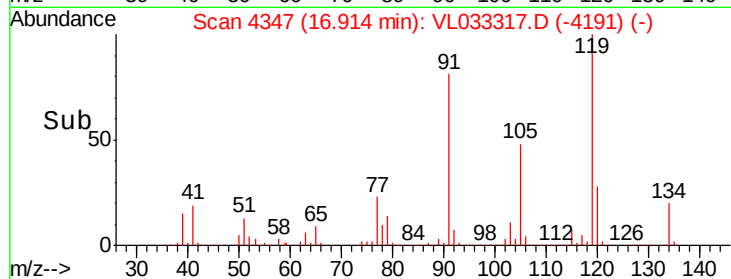
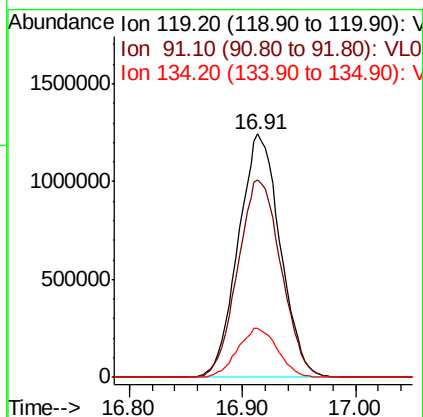
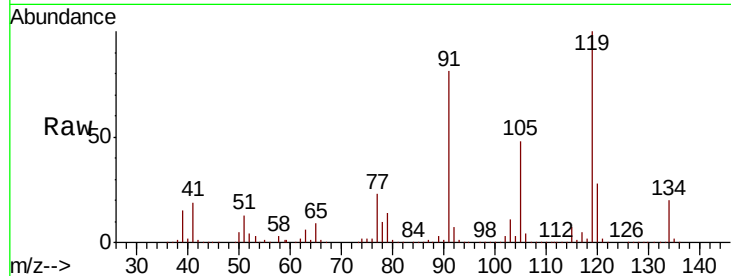




#65
 tert-Butylbenzene
 Concen: 10.267 ppbv
 RT: 16.91 min Scan# 4347
 Delta R.T. 0.00 min
 Lab File: VL033317.D
 Acq: 15 Mar 2019 2:55

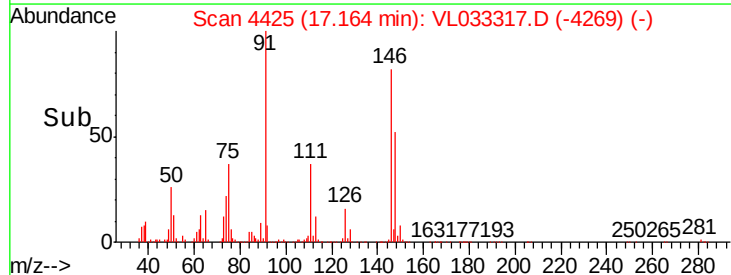
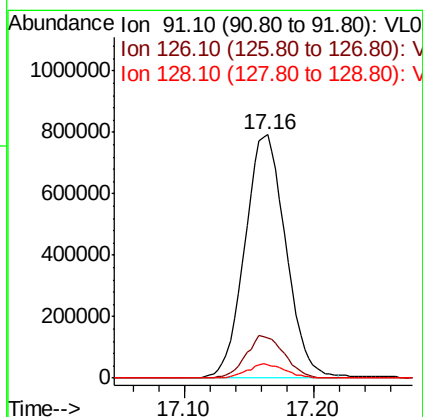
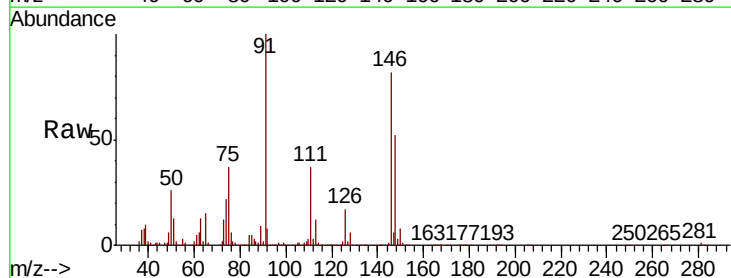
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

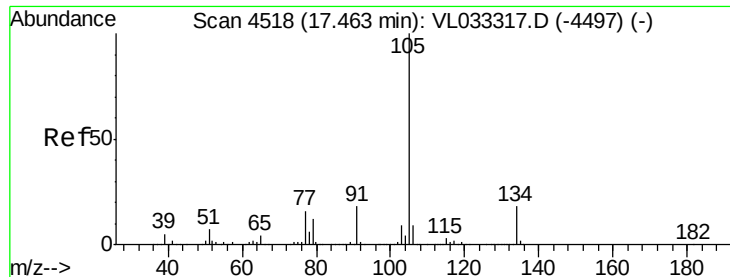
Tgt Ion: 119 Resp: 3196162
 Ion Ratio Lower Upper
 119 100
 91 84.4 67.5 101.3
 134 19.4 15.5 23.3



#66
 Benzyl Chloride
 Concen: 13.826 ppbv
 RT: 17.16 min Scan# 4425
 Delta R.T. 0.00 min
 Lab File: VL033317.D
 Acq: 15 Mar 2019 2:55

Tgt Ion: 91 Resp: 1747889
 Ion Ratio Lower Upper
 91 100
 126 16.7 13.4 20.0
 128 5.4 4.3 6.5





#67

sec-Butylbenzene

Concen: 10.206 ppbv

RT: 17.46 min Scan# 4518

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

Instrument :

MSVOA_L

ClientSampleId :

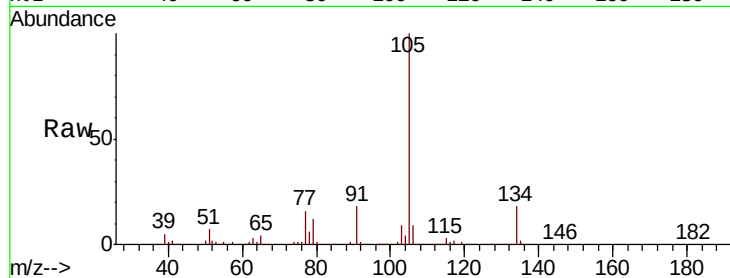
VSTDICCC010

Tgt Ion: 105 Resp: 4577000

Ion Ratio Lower Upper

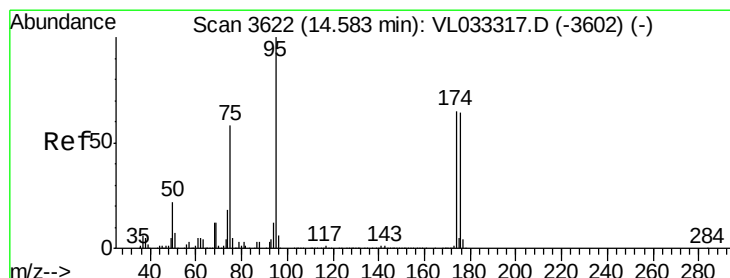
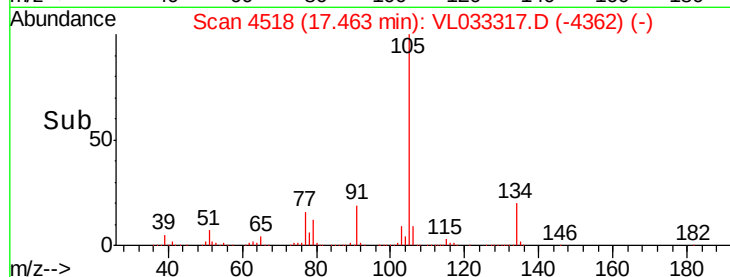
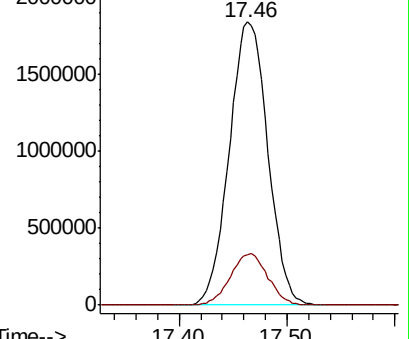
105 100

134 17.8 14.2 21.4



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: 9.579 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

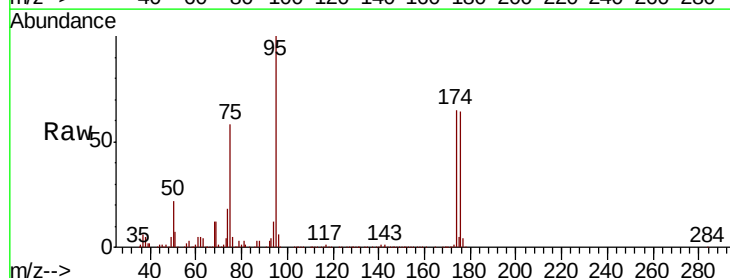
Tgt Ion: 95 Resp: 1634140

Ion Ratio Lower Upper

95 100

174 64.9 52.2 78.4

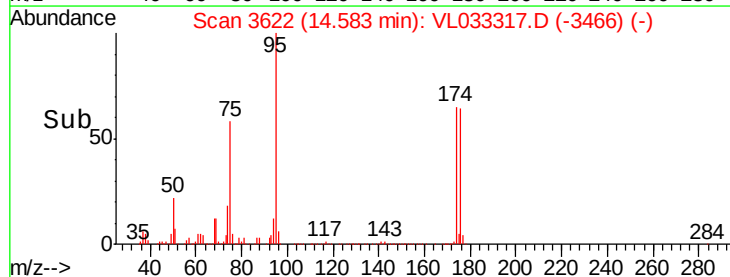
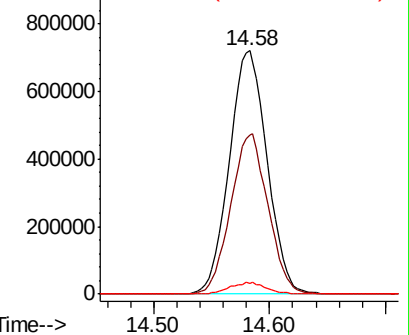
175 4.8 3.8 5.6

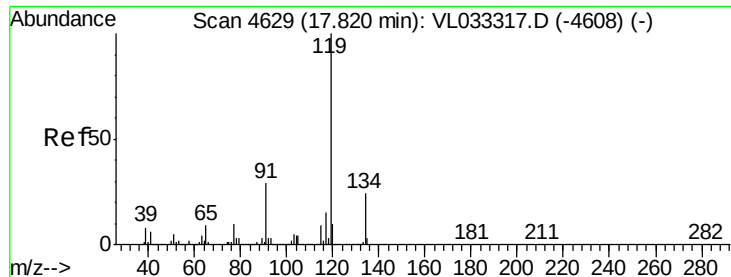


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

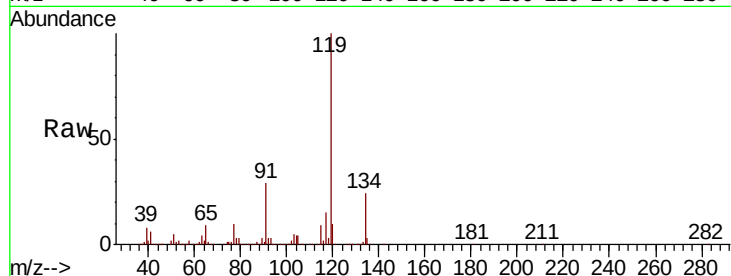




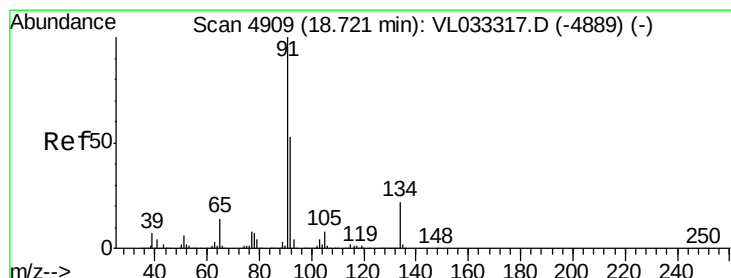
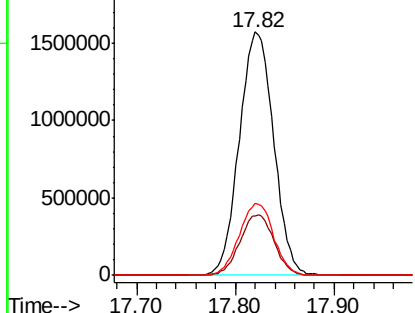
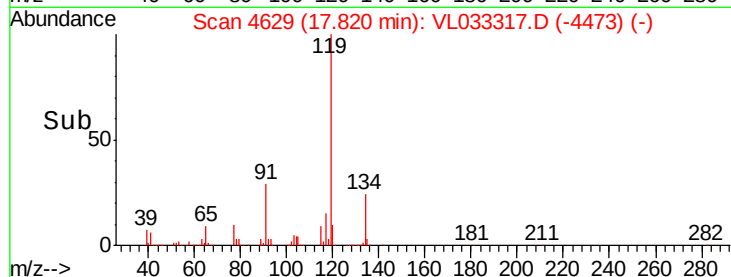
#69
 p-Isopropyltoluene
 Concen: 10.557 ppbv
 RT: 17.82 min Scan# 4629
 Delta R.T. 0.00 min
 Lab File: VL033317.D
 Acq: 15 Mar 2019 2:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 119 Resp: 3786733
 Ion Ratio Lower Upper
 119 100
 134 24.9 19.9 29.9
 91 29.7 23.7 35.5

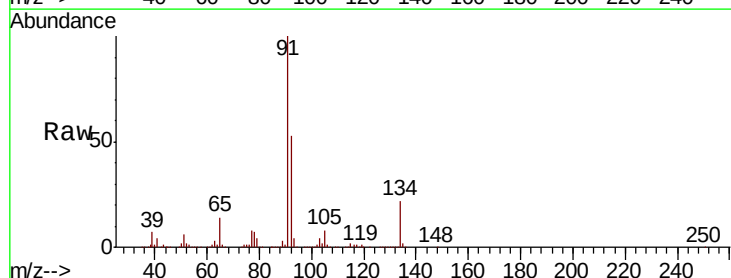


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

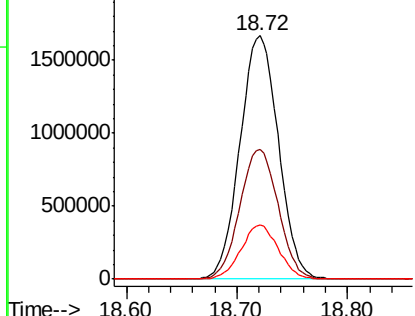
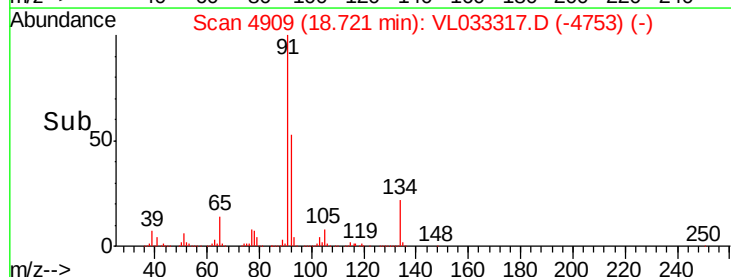


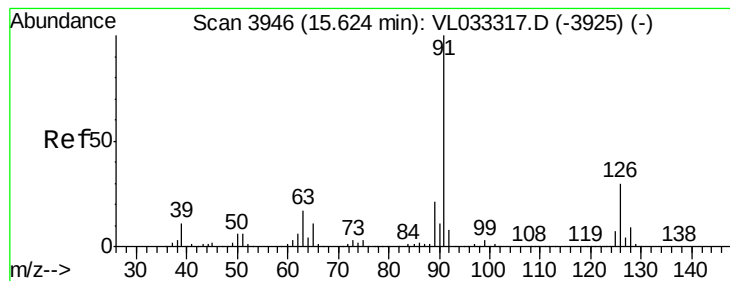
#70
 n-Butylbenzene
 Concen: 10.714 ppbv
 RT: 18.72 min Scan# 4909
 Delta R.T. 0.00 min
 Lab File: VL033317.D
 Acq: 15 Mar 2019 2:55

Tgt Ion: 91 Resp: 4026164
 Ion Ratio Lower Upper
 91 100
 92 53.4 42.7 64.1
 134 21.7 17.4 26.0



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





#71

2-Chlorotoluene

Concen: 10.207 ppbv

RT: 15.62 min Scan# 3946

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

Instrument :

MSVOA_L

ClientSampleId :

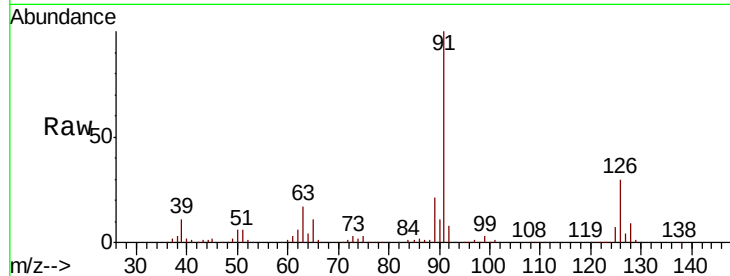
VSTDICCC010

Tgt Ion: 91 Resp: 2811276

Ion Ratio Lower Upper

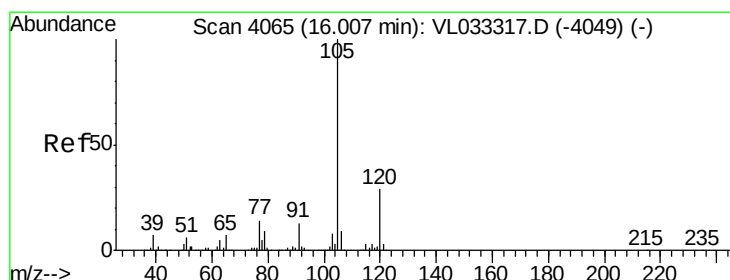
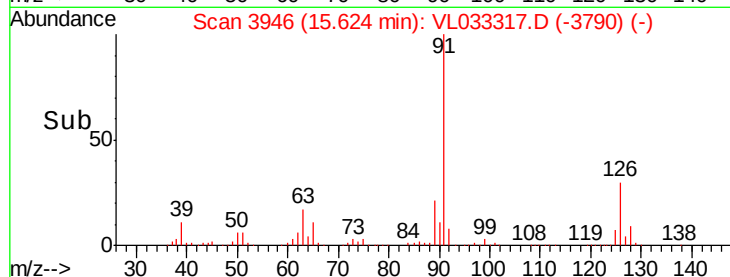
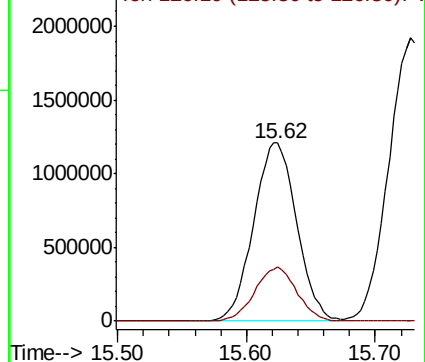
91 100

126 29.5 11.8 47.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 10.807 ppbv

RT: 16.01 min Scan# 4065

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

Tgt Ion:105 Resp: 3042737

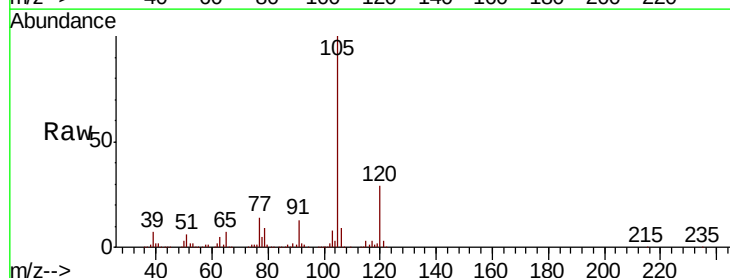
Ion Ratio Lower Upper

105 100

120 28.1 22.6 33.8

91 13.1 10.4 15.6

77 14.0 11.2 16.8

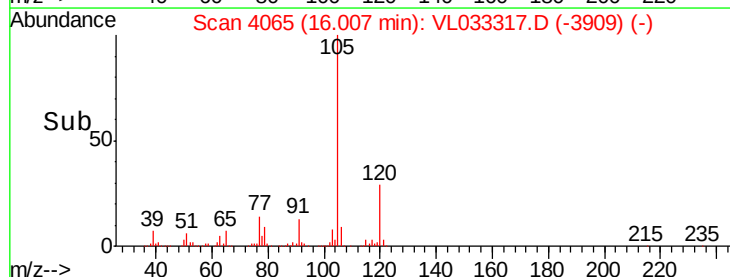
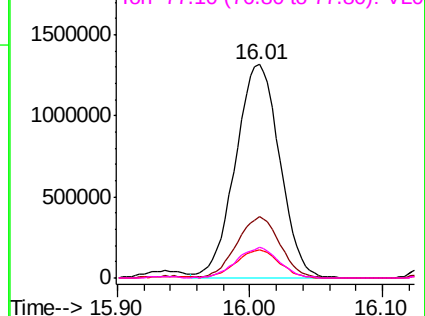


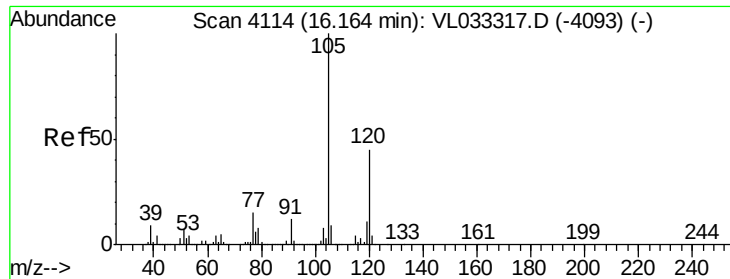
Abundance Ion 105.10 (104.80 to 105.80): V

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

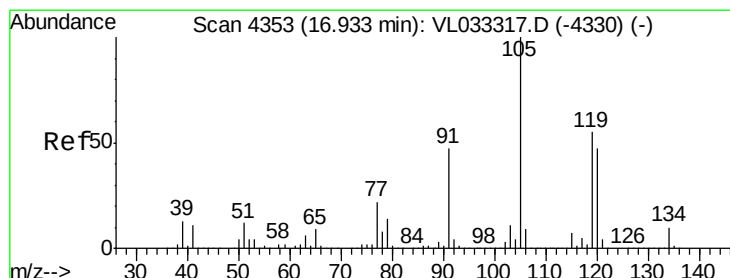
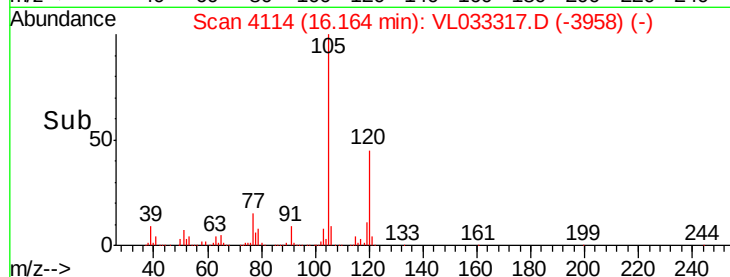
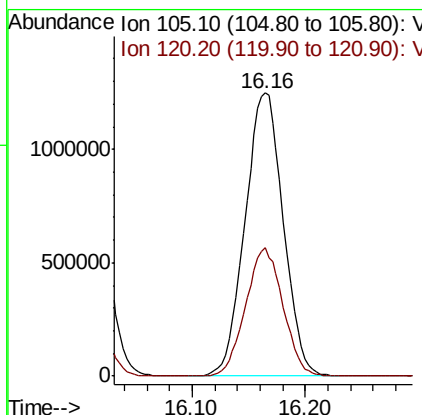
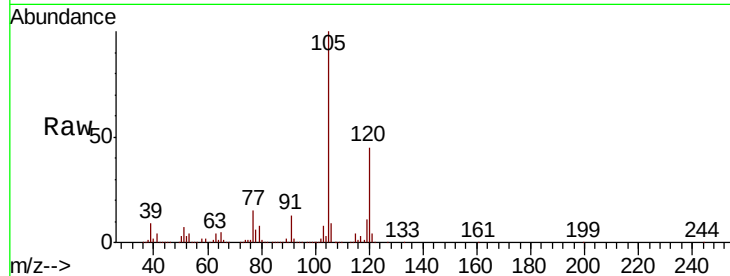




#73
 1,3,5-Trimethylbenzene
 Concen: 11.052 ppbv
 RT: 16.16 min Scan# 4114
 Delta R.T. 0.00 min
 Lab File: VL033317.D
 Acq: 15 Mar 2019 2:55

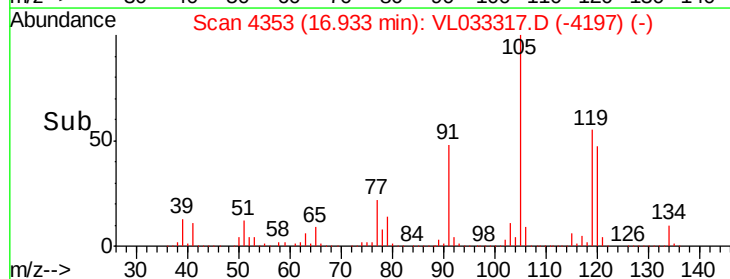
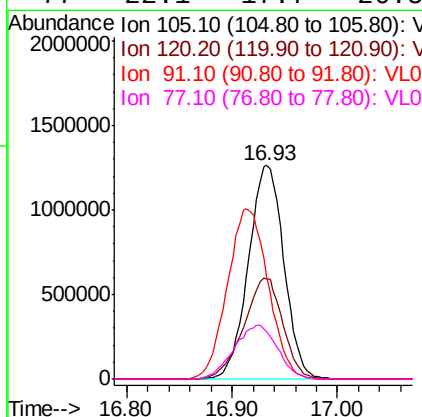
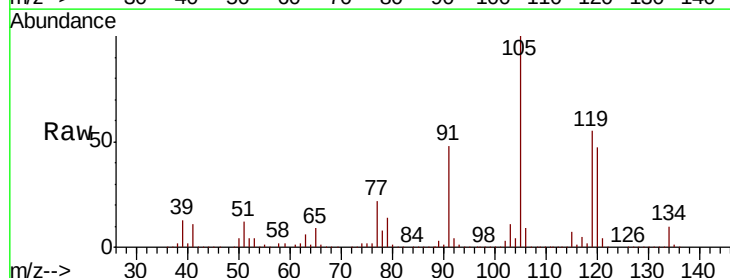
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

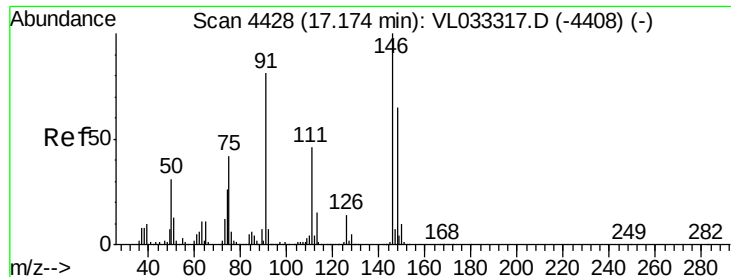
Tgt Ion:105 Resp: 2923719
 Ion Ratio Lower Upper
 105 100
 120 45.2 36.2 54.2



#74
 1,2,4-Trimethylbenzene
 Concen: 10.955 ppbv
 RT: 16.93 min Scan# 4353
 Delta R.T. 0.00 min
 Lab File: VL033317.D
 Acq: 15 Mar 2019 2:55

Tgt Ion:105 Resp: 2960007
 Ion Ratio Lower Upper
 105 100
 120 46.5 37.2 55.8
 91 47.6 38.1 57.1
 77 22.1 17.7 26.5





#75

1,3-Dichlorobenzene

Concen: 10.055 ppbv

RT: 17.17 min Scan# 4428

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

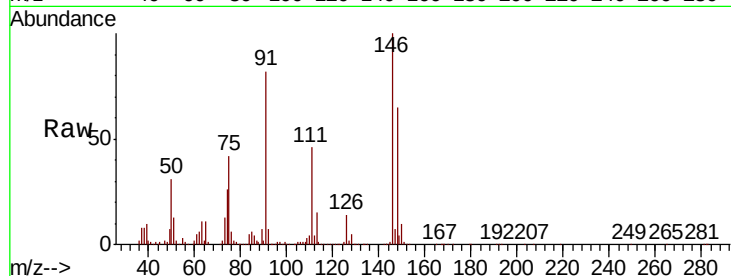
Tgt Ion:146 Resp: 1700713

Ion Ratio Lower Upper

146 100

111 45.8 22.9 68.7

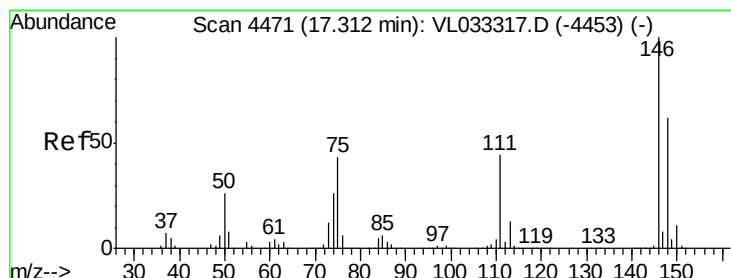
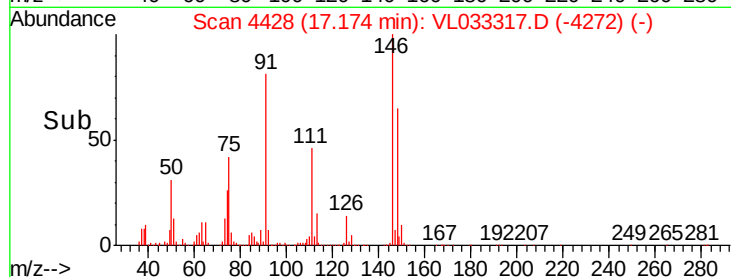
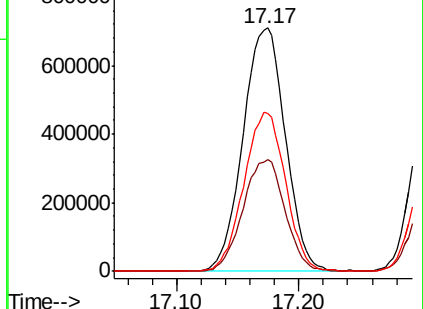
148 64.4 32.2 96.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 10.334 ppbv

RT: 17.31 min Scan# 4471

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

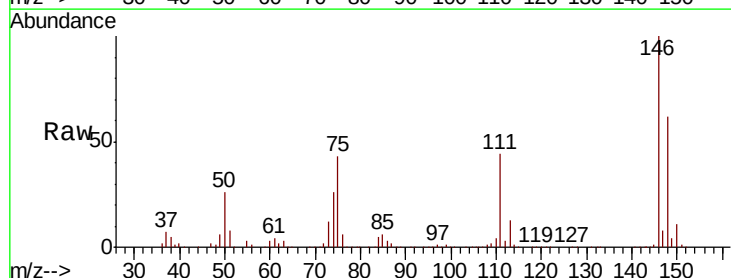
Tgt Ion:146 Resp: 1707914

Ion Ratio Lower Upper

146 100

111 44.9 22.5 67.5

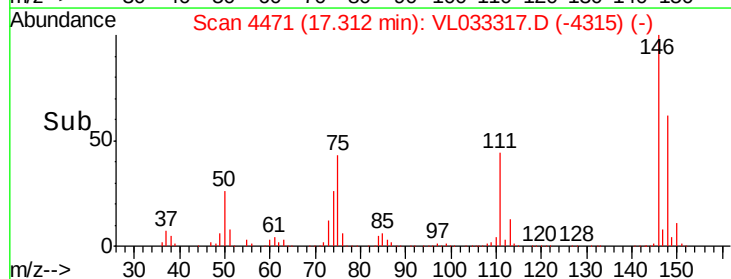
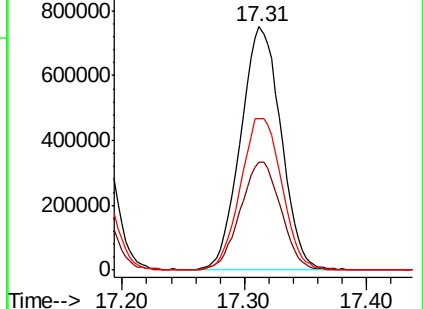
148 64.5 32.3 96.8

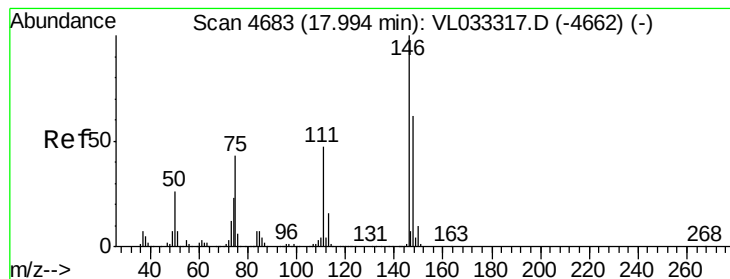


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 10.189 ppbv

RT: 17.99 min Scan# 4683

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

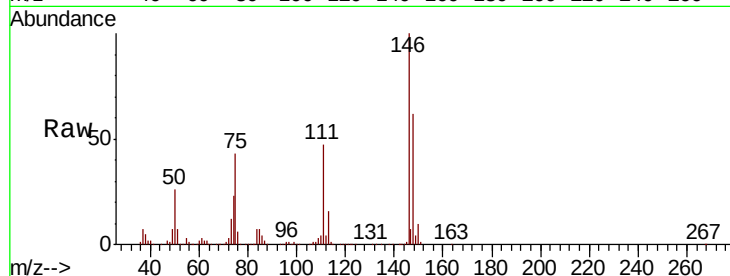
Tgt Ion:146 Resp: 1683646

Ion Ratio Lower Upper

146 100

111 47.3 23.6 71.0

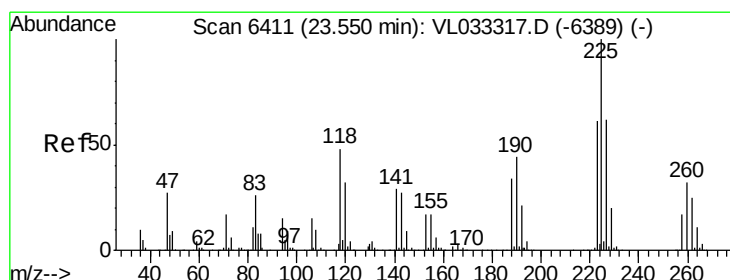
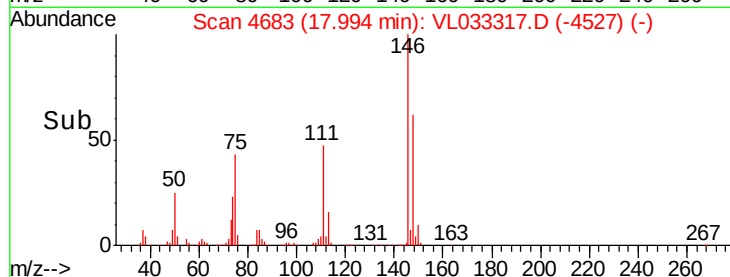
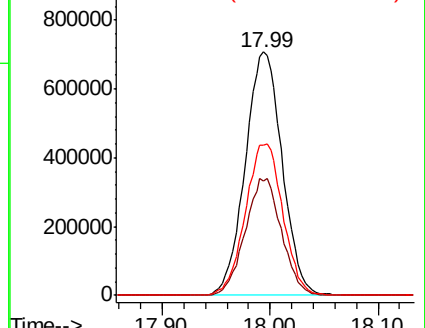
148 63.3 31.6 95.0



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



#78

Hexachloro-1,3-Butadiene

Concen: 7.844 ppbv

RT: 23.55 min Scan# 6411

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

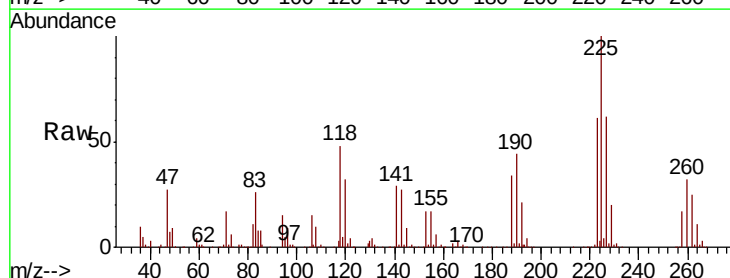
Tgt Ion:225 Resp: 890127

Ion Ratio Lower Upper

225 100

223 63.1 50.5 75.7

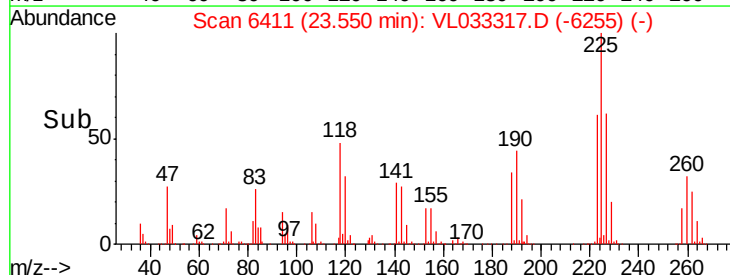
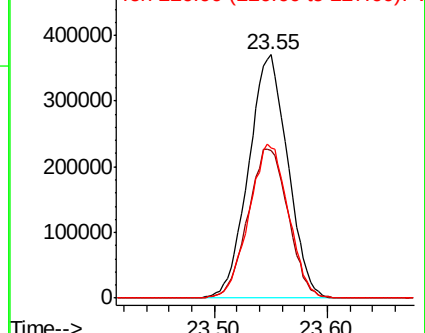
227 63.7 50.9 76.3

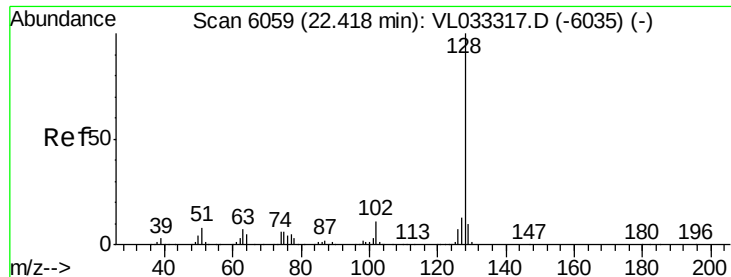


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 13.236 ppbv

RT: 22.42 min Scan# 6059

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

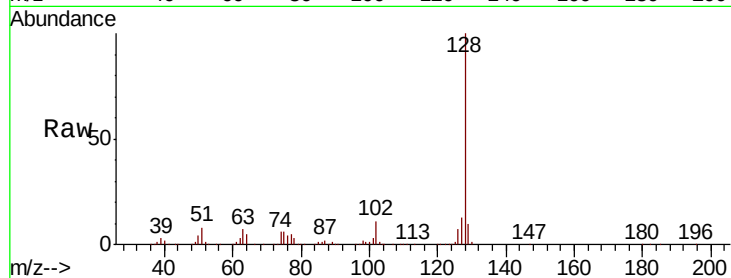
Tgt Ion:128 Resp: 2907341

Ion Ratio Lower Upper

128 100

127 13.1 10.5 15.7

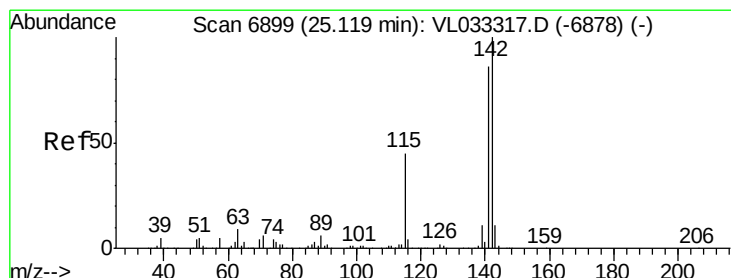
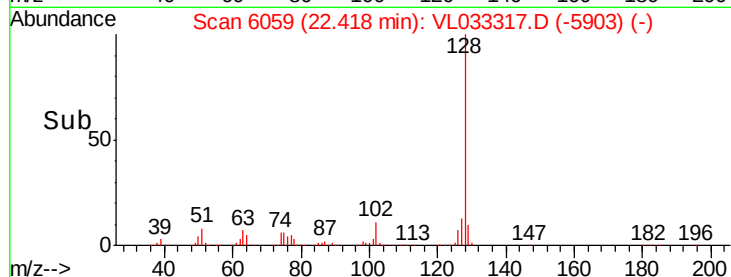
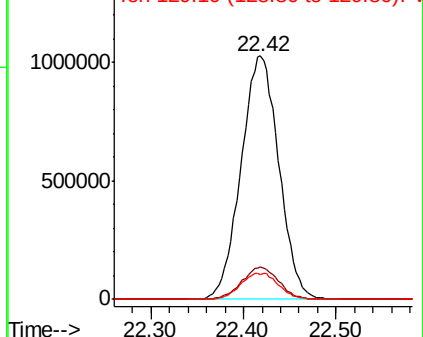
129 10.4 8.3 12.5



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 22.884 ppbv

RT: 25.12 min Scan# 6899

Delta R.T. 0.00 min

Lab File: VL033317.D

Acq: 15 Mar 2019 2:55

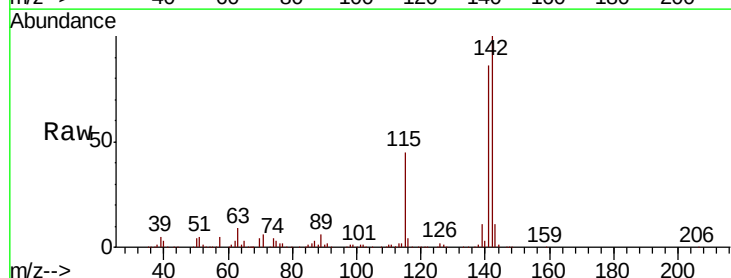
Tgt Ion:142 Resp: 1453817

Ion Ratio Lower Upper

142 100

141 84.2 67.4 101.0

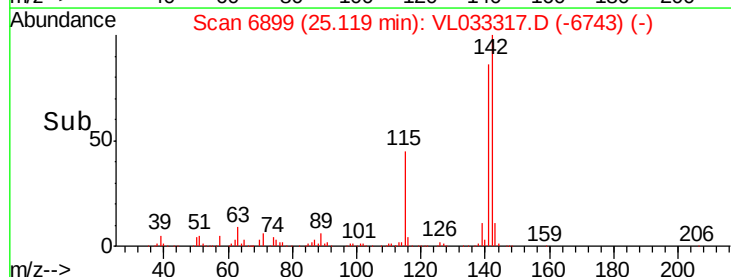
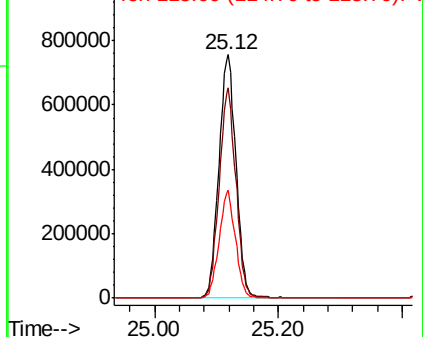
115 42.1 33.8 50.8

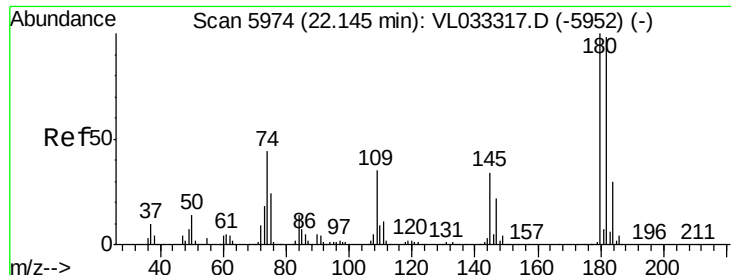


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 11.714 ppbv
 RT: 22.14 min Scan# 5974
 Delta R.T. 0.00 min
 Lab File: VL033317.D
 Acq: 15 Mar 2019 2:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion:180 Resp: 1463849
 Ion Ratio Lower Upper
 180 100
 182 95.9 76.6 114.8
 184 30.4 24.3 36.5

