

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032119\
 Data File : VL033421.D
 Acq On : 21 Mar 2019 17:39
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 22 08:45:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	806429	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1921275	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2414639	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1507221	8.42	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	84.20%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	1088422	7.675	ppbv 98
3) Chlorodifluoromethane	3.01	51	954183	10.309	ppbv 100
4) Chloromethane	3.17	50	516076	10.297	ppbv 98
5) Vinyl Chloride	3.29	62	497522	9.622	ppbv 98
6) Bromomethane	3.51	94	317135	10.318	ppbv 97
7) Chloroethane	3.60	64	182447	10.098	ppbv 97
8) Dichlorotetrafluoroethane	3.22	85	1240221	10.273	ppbv 98
9) Propene	3.03	41	417823	10.112	ppbv 99
10) Heptane	8.25	43	1105181	10.784	ppbv 99
11) Trichlorofluoromethane	4.00	101	1390170	9.844	ppbv 96
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1183004	12.626	ppbv 97
13) Ethanol	3.64	45	94020	4.773	ppbv 98
14) Bromoethene	3.79	108	405032	10.372	ppbv 99
15) Acetone	3.90	43	883689	7.049	ppbv 98
16) 1,3-Butadiene	3.36	39	390714	9.596	ppbv 95
17) tert-Butyl alcohol	4.35	59	178488	10.118	ppbv 99
18) 1,1-Dichloroethene	4.35	96	422865	9.871	ppbv 99
19) Isopropyl Alcohol	4.02	45	622472	10.439	ppbv 100
20) Methylene Chloride	4.41	84	347037	8.488	ppbv 95
21) Allyl Chloride	4.48	41	637424	10.482	ppbv 99
22) trans-1,2-Dichloroethene	4.96	96	692599	16.682	ppbv 98
23) Vinyl Acetate	5.15	43	1547529	10.669	ppbv 99
24) 1,1-Dichloroethane	5.09	63	1094761	10.451	ppbv 99
25) Ethyl Acetate	5.77	43	1864832	10.234	ppbv 100
26) Hexane	5.78	57	817436	10.034	ppbv 99
27) Carbon Disulfide	4.62	76	1647139	17.563	ppbv 99
28) Methyl tert-Butyl Ether	5.11	73	1321541	10.921	ppbv 100
29) Chloroform	5.85	83	1401323	10.505	ppbv 99
30) Cyclohexane	7.25	84	713149	10.918	ppbv 96
31) cis-1,2-Dichloroethene	5.64	61	878648	10.787	ppbv 98
32) 1,1,1-Trichloroethane	6.62	97	1392771	10.634	ppbv 99
34) 2-Butanone	5.33	43	1205550	9.554	ppbv 100
35) Carbon Tetrachloride	7.13	117	1457461	10.760	ppbv 97
36) Benzene	7.00	78	1757742	10.223	ppbv 99
37) 1,2-Dichloroethane	6.41	62	1083842	9.969	ppbv 100
38) Trichloroethene	7.96	130	679671	10.446	ppbv 97
39) 1,2-Dichloropropane	7.74	63	679592	10.554	ppbv 98
40) 1,4-Dioxane	7.95	88	243749	10.750	ppbv 86
41) Tetrahydrofuran	6.14	42	708749	10.526	ppbv 98
42) Bromodichloromethane	7.92	83	1546322	10.608	ppbv 99
43) Methyl Methacrylate	8.14	69	726812	10.856	ppbv 97

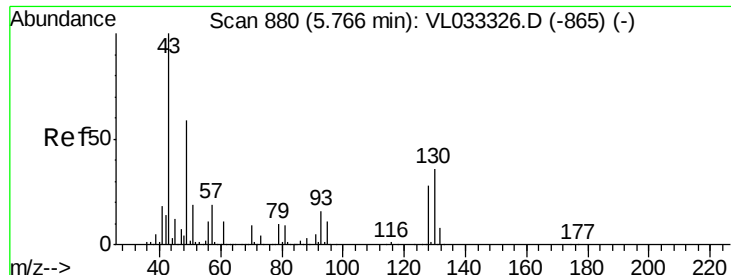
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032119\
 Data File : VL033421.D
 Acq On : 21 Mar 2019 17:39
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 22 08:45:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2938551	10.318	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	965360	11.679	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	1096569	11.267	ppbv	99
47) 1,1,2-Trichloroethane	9.61	97	732875	10.301	ppbv	95
48) Dibromochloromethane	10.45	129	1293633	10.842	ppbv	100
49) Bromoform	13.21	173	1184930	10.469	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1798783	10.093	ppbv	99
51) 2-Hexanone	10.27	43	1379652	10.034	ppbv #	99
52) Tetrachloroethene	11.37	164	659399	9.205	ppbv	99
53) Toluene	9.95	91	2098406	10.740	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1165915	9.694	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	913982	8.462	ppbv	97
57) Chlorobenzene	12.30	112	1531216	8.007	ppbv	99
58) Ethyl Benzene	12.87	91	2950673	8.638	ppbv	99
59) m/p-Xylene	13.13	91	2121320	7.226	ppbv #	100
60) o-Xylene	13.85	91	2433471	8.497	ppbv	99
61) Styrene	13.69	104	1799383	8.974	ppbv	100
62) Isopropylbenzene	14.83	105	3383720	8.499	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1673936	8.086	ppbv	100
64) n-propylbenzene	15.73	120	852660	8.463	ppbv	99
65) tert-Butylbenzene	16.91	119	3050201	8.509	ppbv	99
66) Benzyl Chloride	17.16	91	1551753	10.476	ppbv	99
67) sec-Butylbenzene	17.46	105	4327361	8.520	ppbv	100
69) p-Isopropyltoluene	17.82	119	3580843	8.629	ppbv	100
70) n-Butylbenzene	18.72	91	3677959	8.312	ppbv	100
71) 2-Chlorotoluene	15.62	91	2608981	8.418	ppbv	100
72) 4-Ethyltoluene	16.00	105	2784636	8.562	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	2737108	8.639	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	2775638	8.272	ppbv #	91
75) 1,3-Dichlorobenzene	17.17	146	1611281	8.147	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1601854	8.366	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1559811	8.328	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1106150	9.850	ppbv	98
79) Naphthalene	22.41	128	2481863	7.675	ppbv	100
80) Naphthalene, 2-methyl-	25.12	142	1042402	6.799	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	1287964	7.811	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

ClientSampleId :

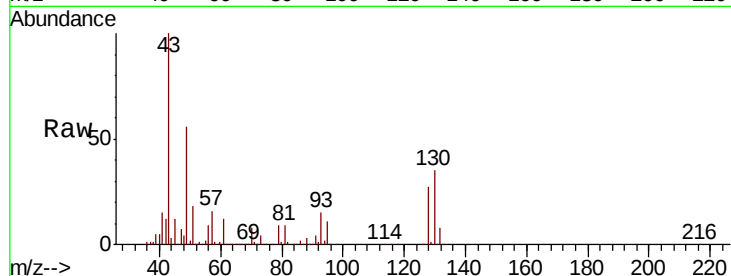
Tot Ion: 49 Resp: 806429

Ion Ratio Lower Upper

49 100

128 47.6 23.5 70.6

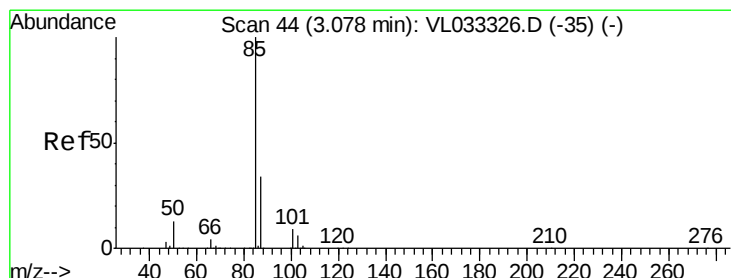
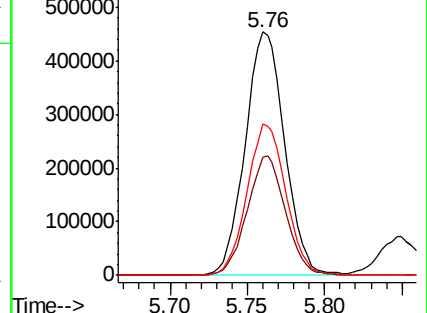
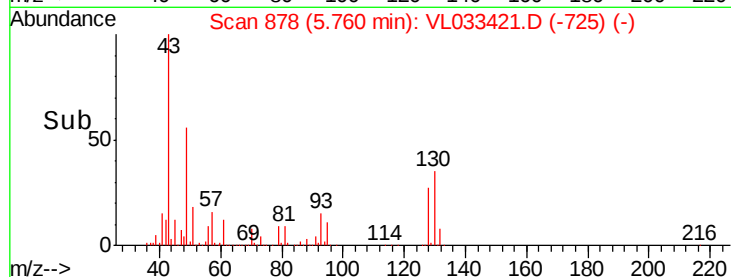
130 61.5 30.1 90.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 7.675 ppbv

RT: 3.07 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033421.D

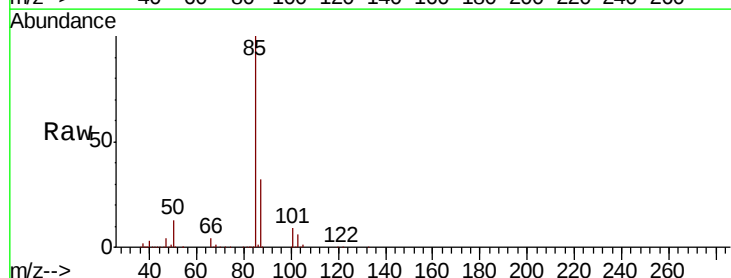
Acq: 21 Mar 2019 17:39

Tgt Ion: 85 Resp: 1088422

Ion Ratio Lower Upper

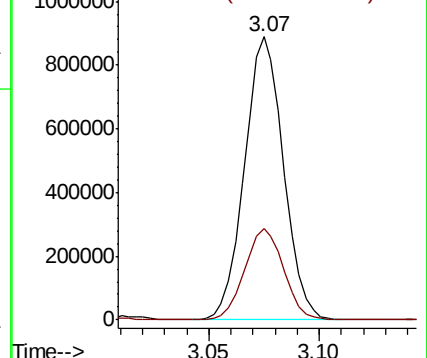
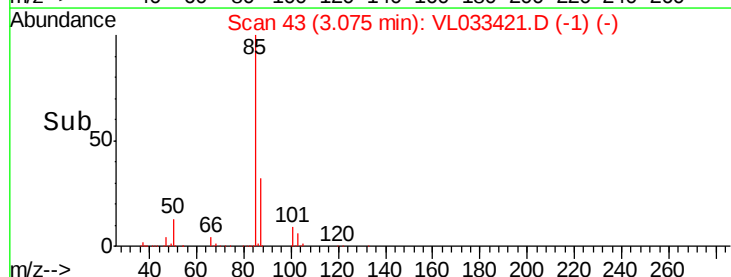
85 100

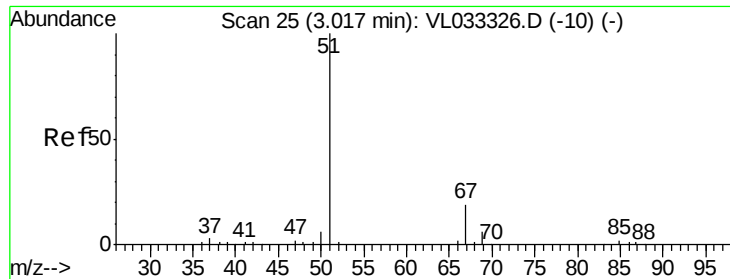
87 32.4 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 10.309 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

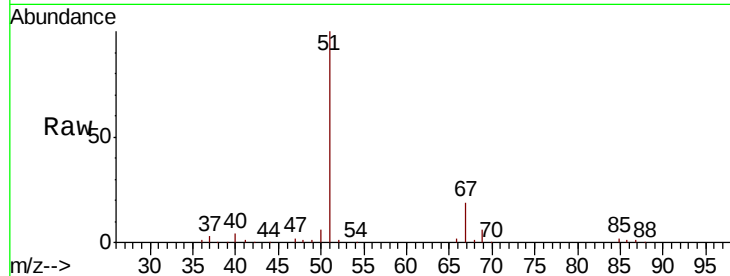
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 51 Resp: 954183

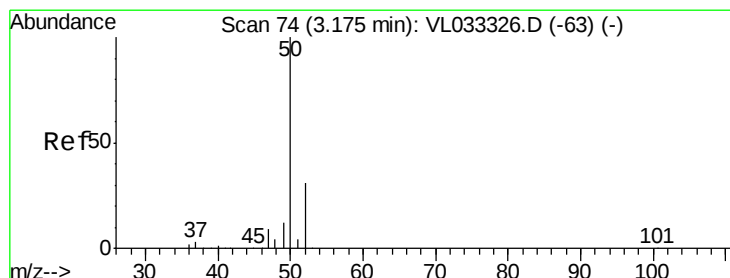
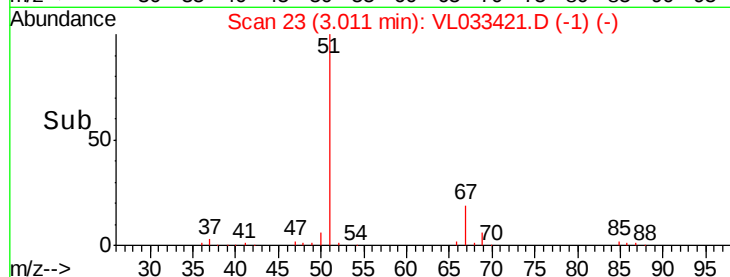
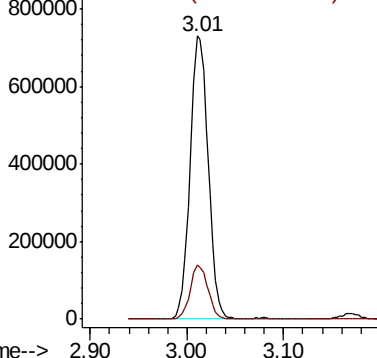
Ion Ratio Lower Upper

51 100

67 18.7 14.9 22.3



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 10.297 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.01 min

Lab File: VL033421.D

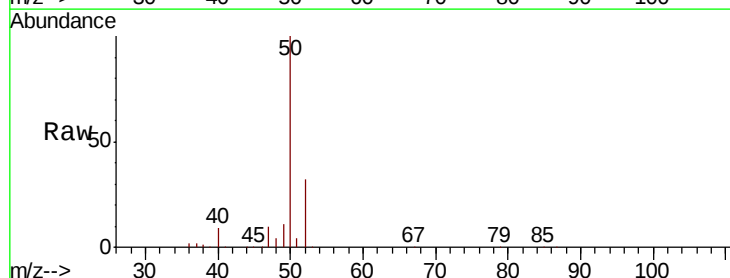
Acq: 21 Mar 2019 17:39

Tgt Ion: 50 Resp: 516076

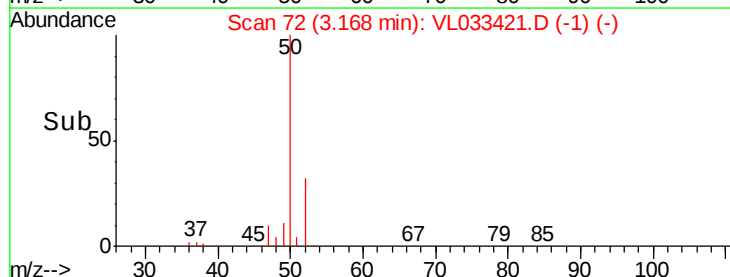
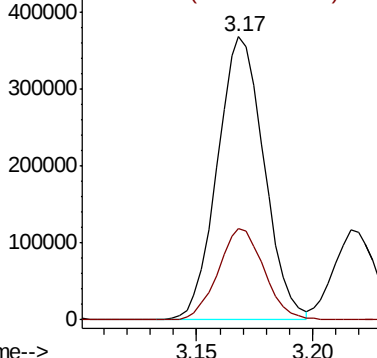
Ion Ratio Lower Upper

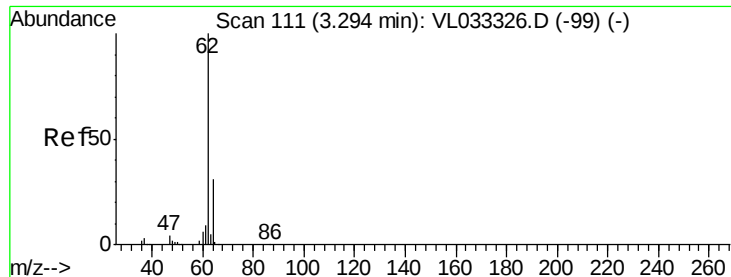
50 100

52 32.4 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.622 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

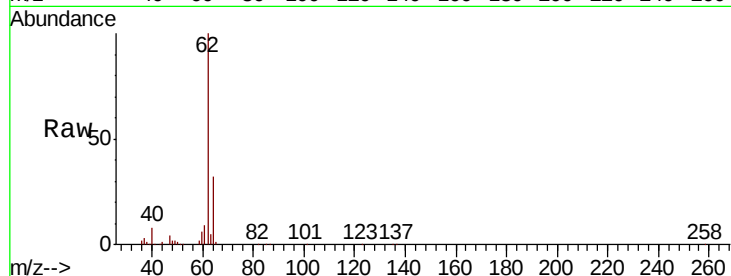
ClientSampleId :

Tot Ion: 62 Resp: 497522

Ion Ratio Lower Upper

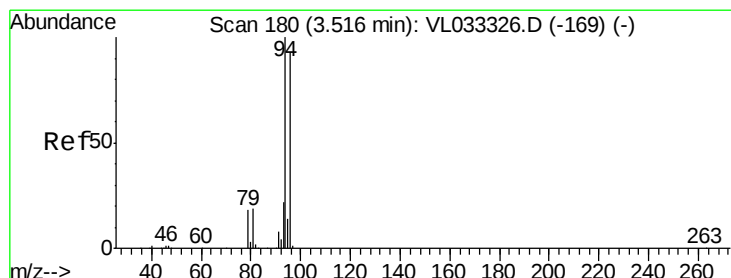
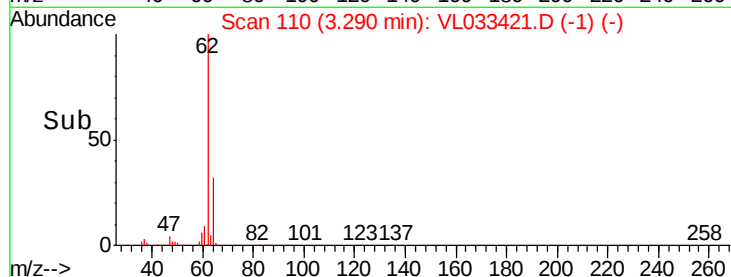
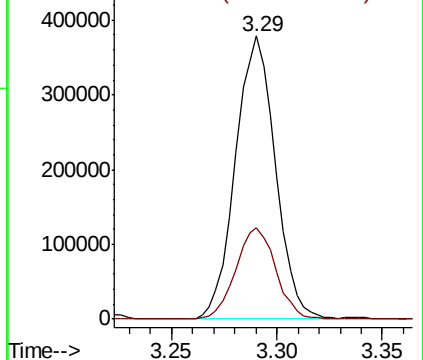
62 100

64 32.2 25.0 37.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.318 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033421.D

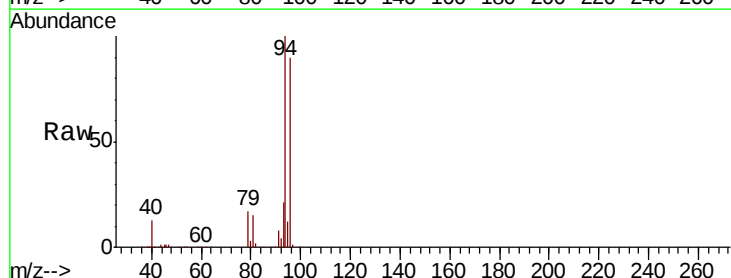
Acq: 21 Mar 2019 17:39

Tgt Ion: 94 Resp: 317135

Ion Ratio Lower Upper

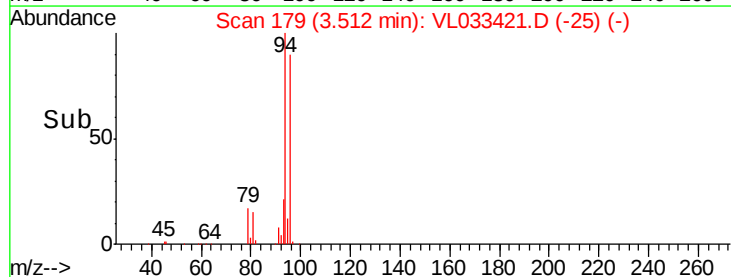
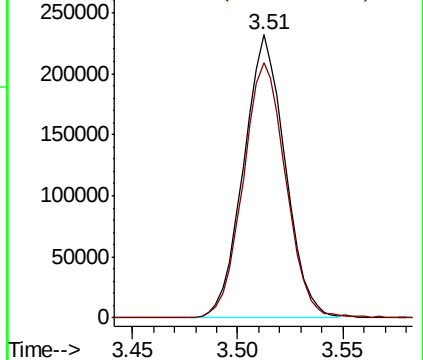
94 100

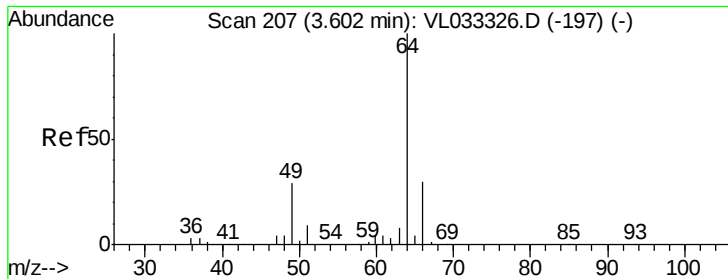
96 90.2 74.6 111.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.098 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

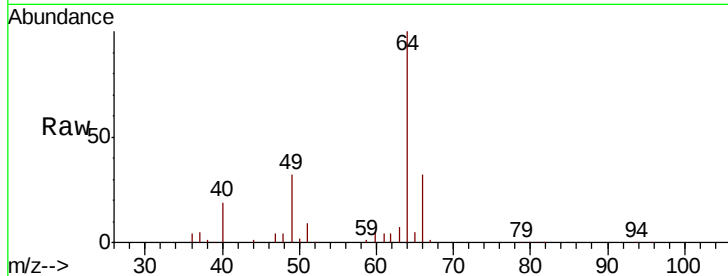
ClientSampleId :

Tot Ion: 64 Resp: 182447

Ion Ratio Lower Upper

64 100

66 31.9 24.0 36.0



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.60

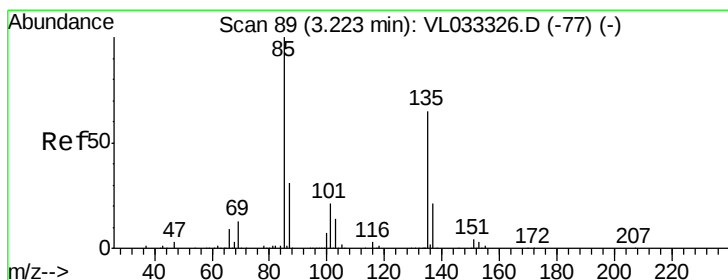
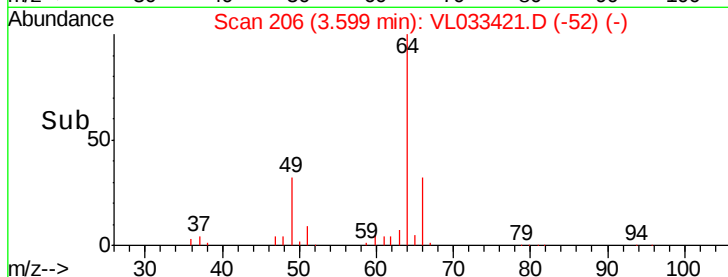
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 10.273 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033421.D

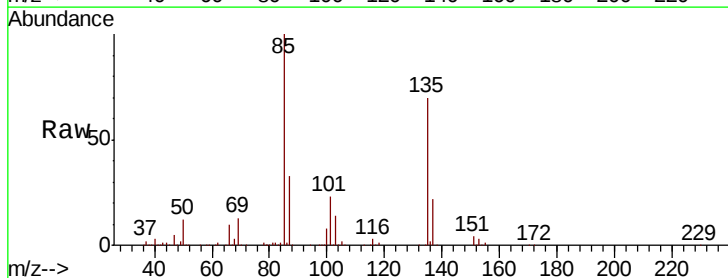
Acq: 21 Mar 2019 17:39

Tgt Ion: 85 Resp: 1240221

Ion Ratio Lower Upper

85 100

135 68.3 53.4 80.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.22

1000000

800000

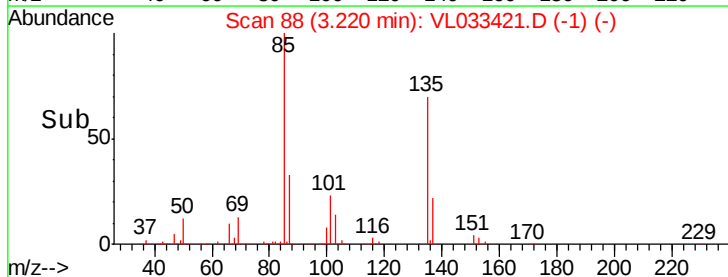
600000

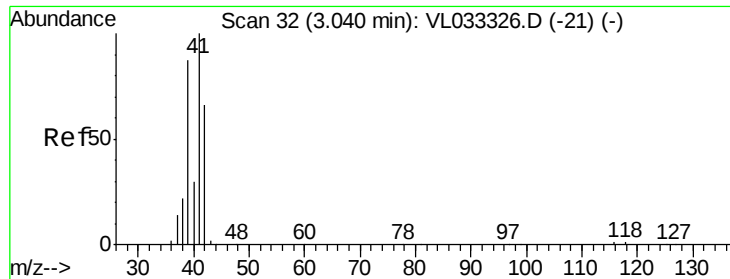
400000

200000

0

Time-->





#9

Propene

Concen: 10.112 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

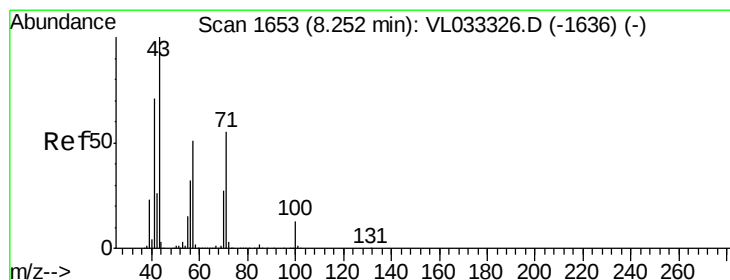
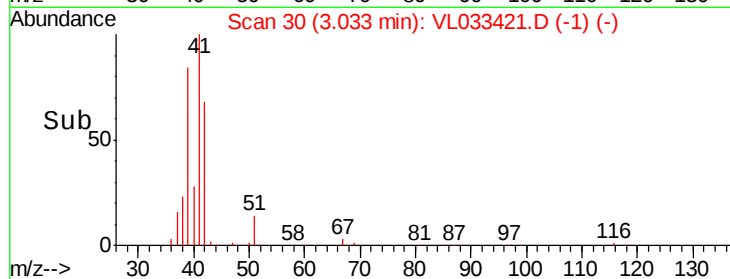
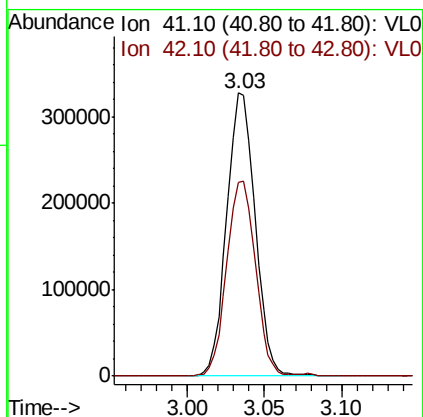
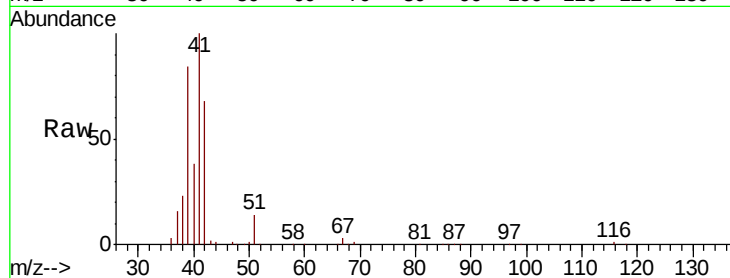
ClientSampleId :

Tot Ion: 41 Resp: 417823

Ion Ratio Lower Upper

41 100

42 70.1 55.2 82.8



#10

Heptane

Concen: 10.784 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. -0.00 min

Lab File: VL033421.D

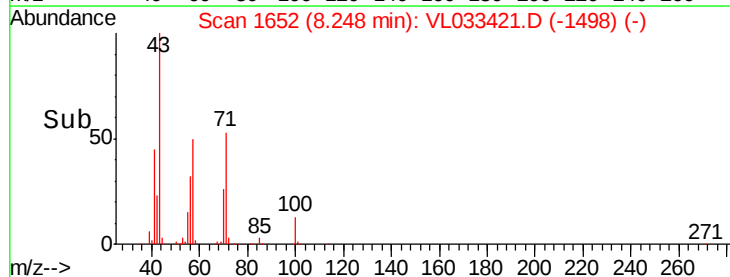
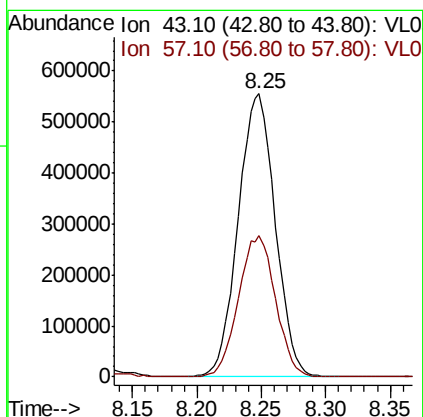
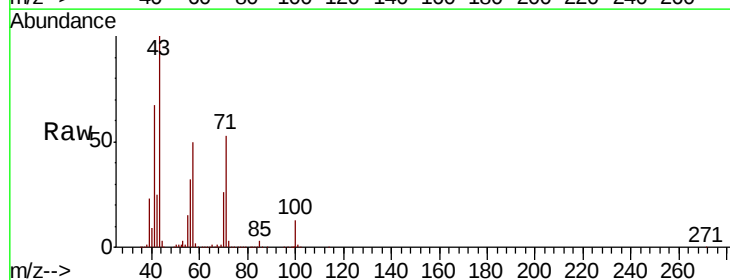
Acq: 21 Mar 2019 17:39

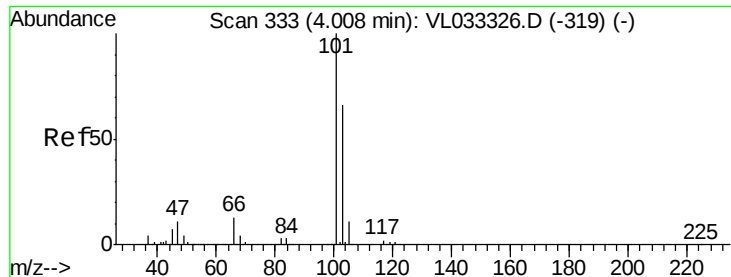
Tgt Ion: 43 Resp: 1105181

Ion Ratio Lower Upper

43 100

57 50.1 40.4 60.6

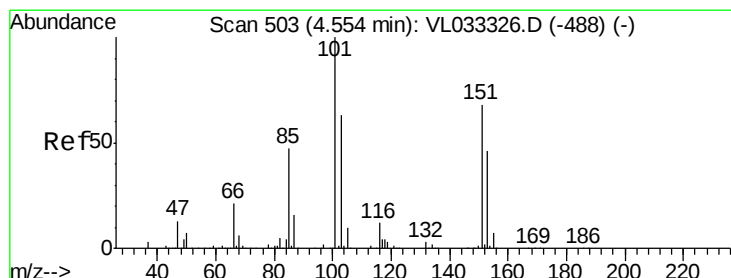
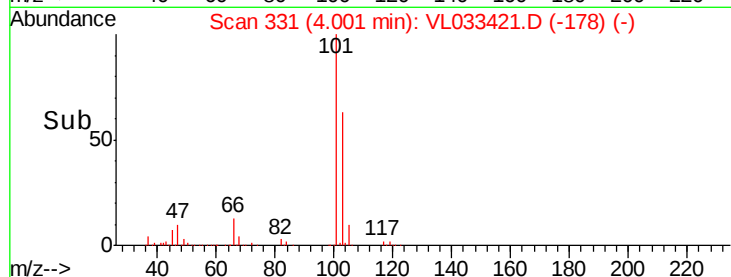
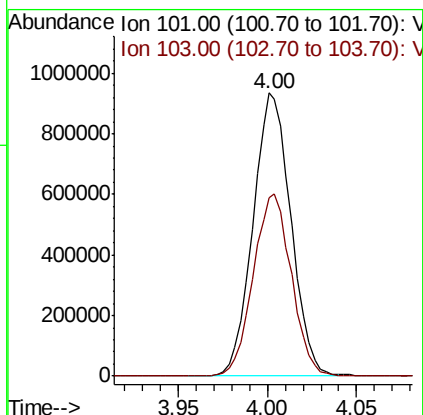
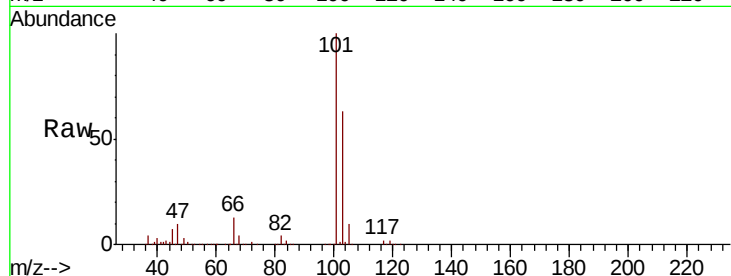




#11
 Trichlorofluoromethane
 Concen: 9.844 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. -0.01 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

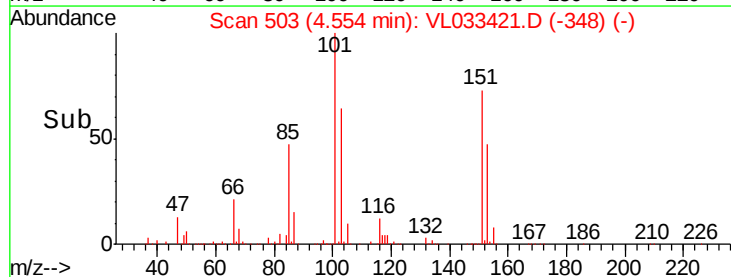
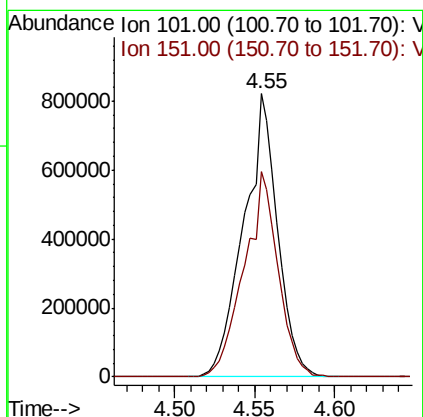
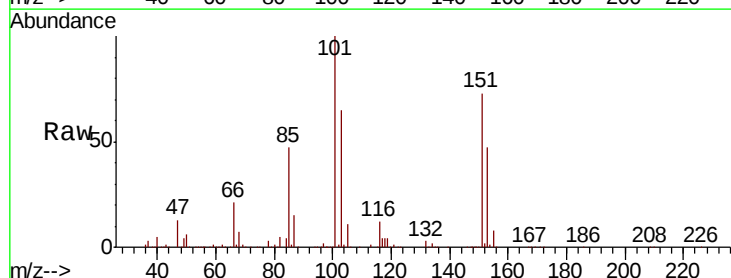
Instrument :
 MSVOA_L
 ClientSampled :

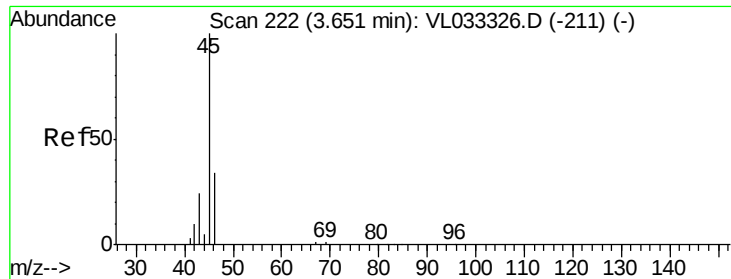
Tot Ion:101 Resp: 1390170
 Ion Ratio Lower Upper
 101 100
 103 63.1 52.9 79.3



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 12.626 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. -0.00 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

Tgt Ion:101 Resp: 1183004
 Ion Ratio Lower Upper
 101 100
 151 73.2 56.3 84.5





#13

Ethanol

Concen: 4.773 ppbv

RT: 3.64 min Scan# 220

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

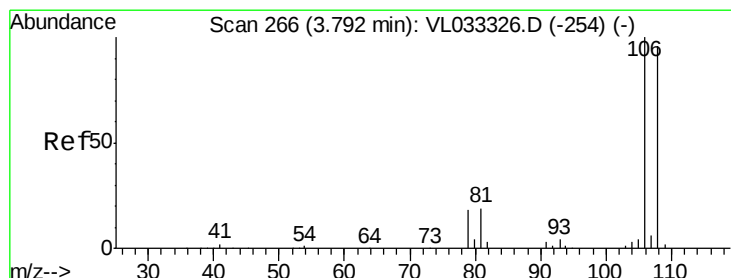
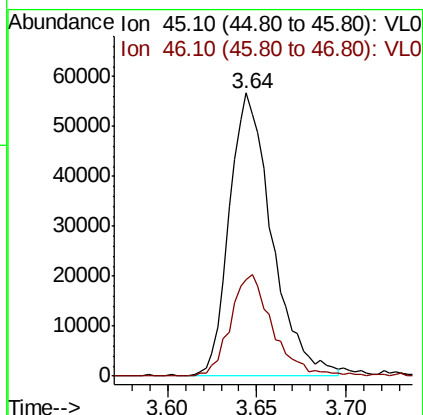
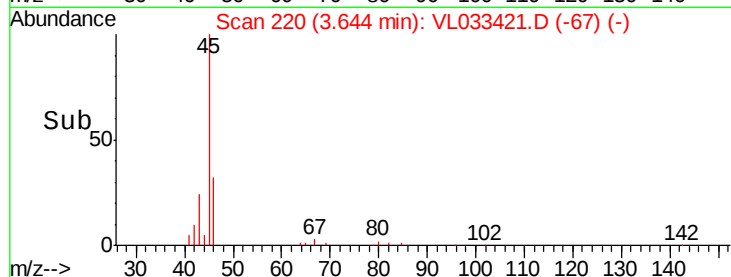
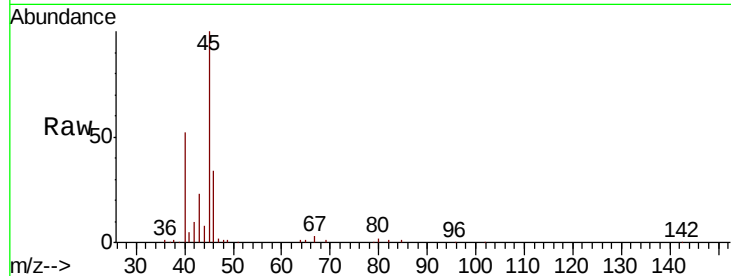
ClientSampleId :

Tot Ion: 45 Resp: 94020

Ion Ratio Lower Upper

45 100

46 36.2 14.9 59.7



#14

Bromoethene

Concen: 10.372 ppbv

RT: 3.79 min Scan# 264

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

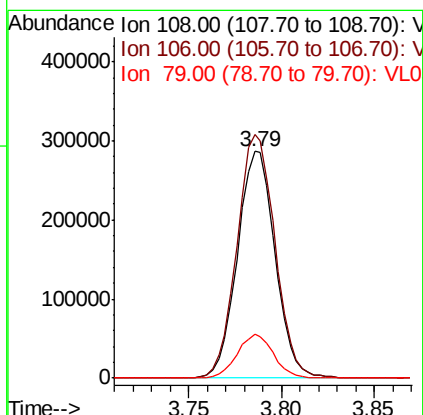
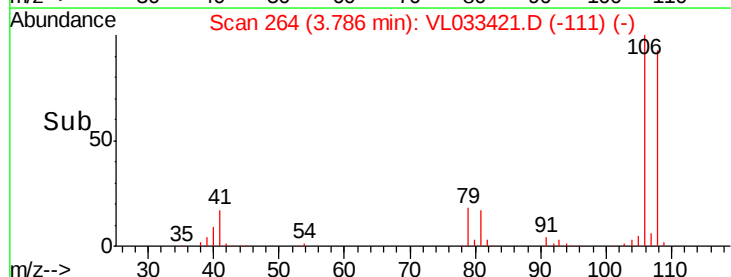
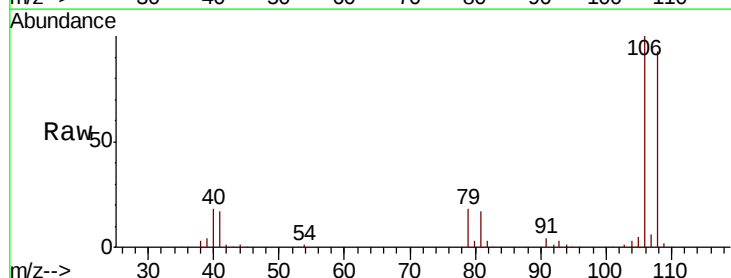
Tgt Ion: 108 Resp: 405032

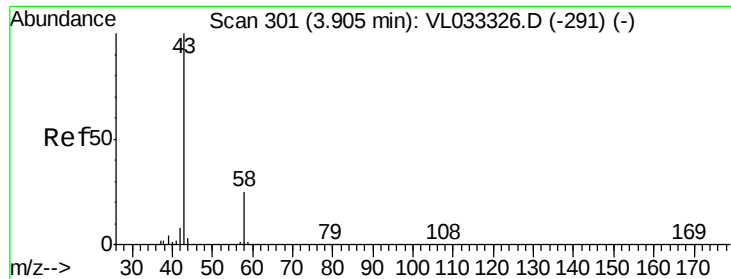
Ion Ratio Lower Upper

108 100

106 108.9 86.2 129.2

79 19.0 15.4 23.2





#15

Acetone

Concen: 7.049 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

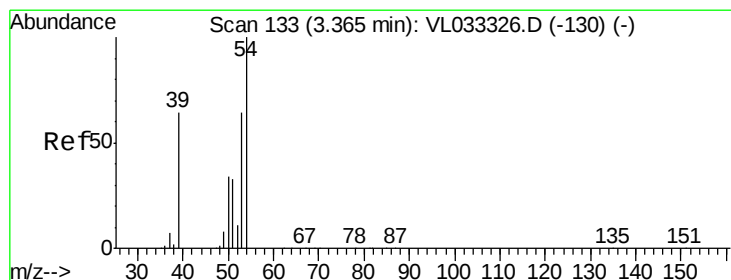
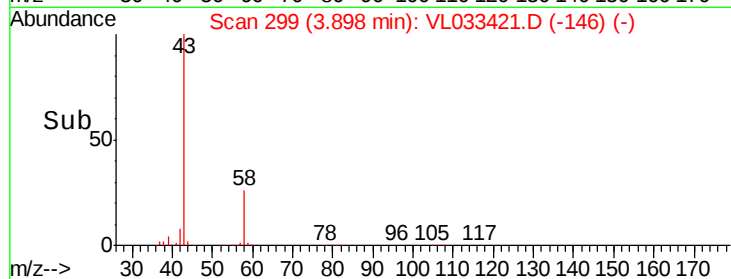
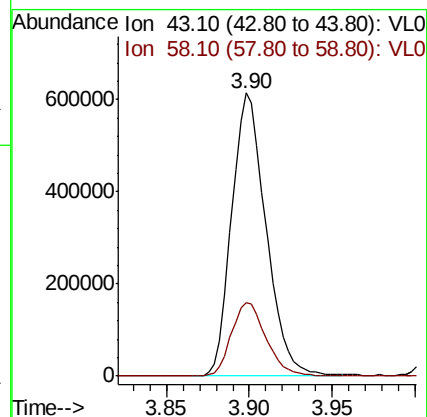
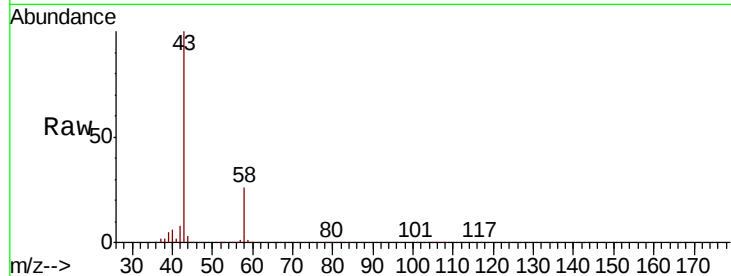
ClientSampleId :

Tot Ion: 43 Resp: 883689

Ion Ratio Lower Upper

43 100

58 26.4 20.4 30.6



#16

1,3-Butadiene

Concen: 9.596 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033421.D

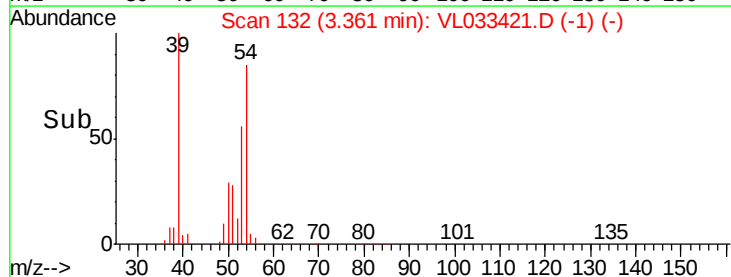
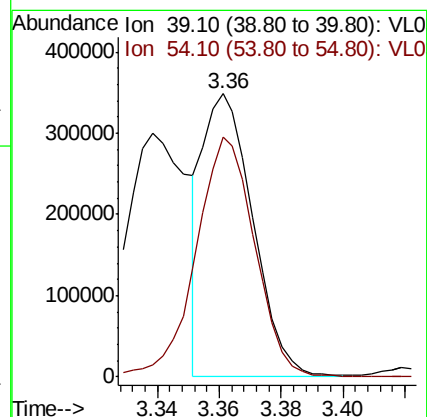
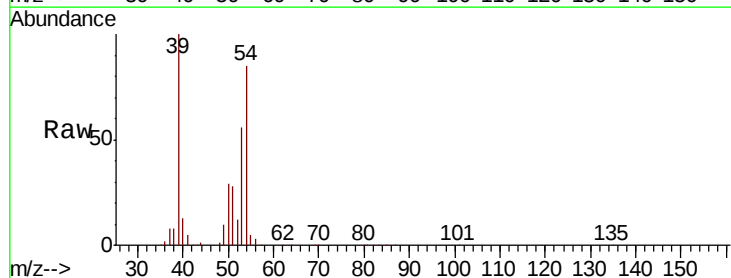
Acq: 21 Mar 2019 17:39

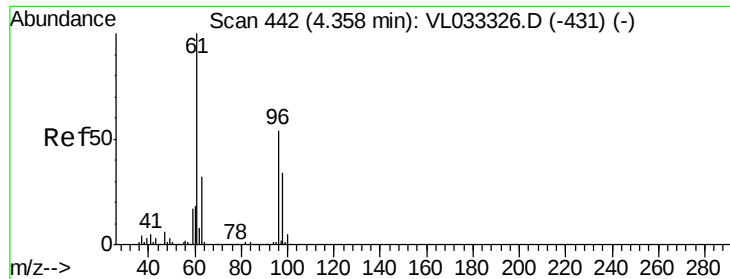
Tgt Ion: 39 Resp: 390714

Ion Ratio Lower Upper

39 100

54 100.5 76.8 115.2



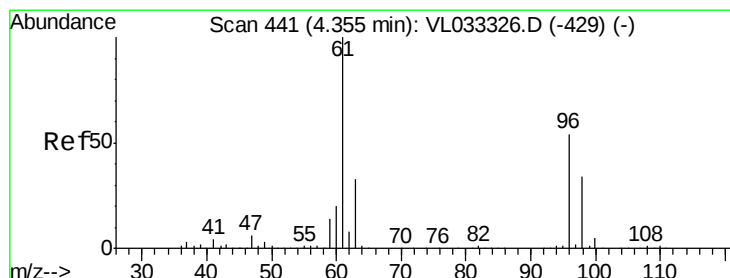
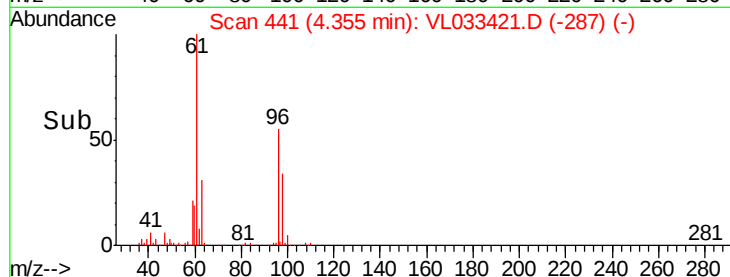
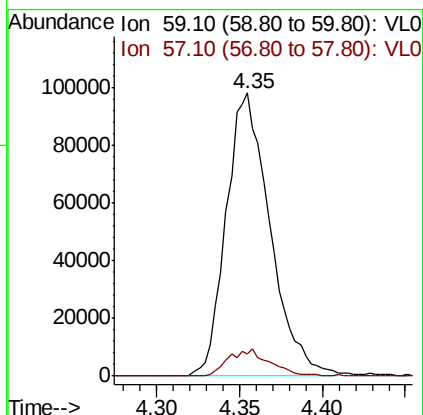
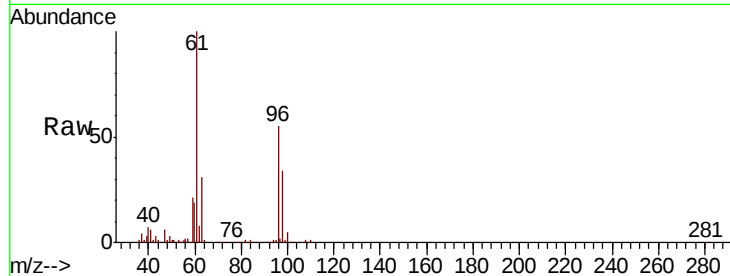


#17

tert-Butyl alcohol
 Concen: 10.118 ppbv
 RT: 4.35 min Scan# 441
 Delta R.T. -0.00 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

Instrument :
 MSVOA_L
 ClientSampled :

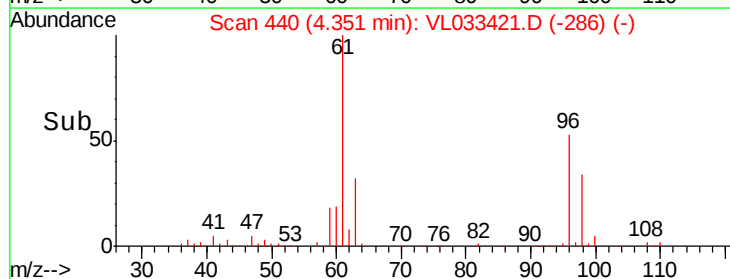
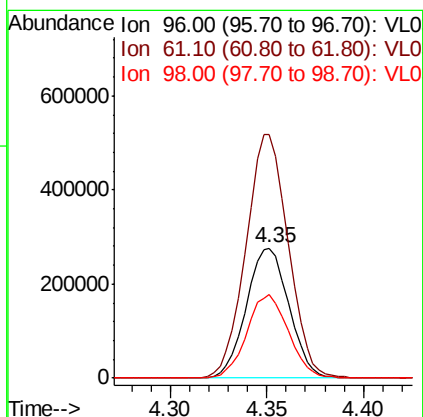
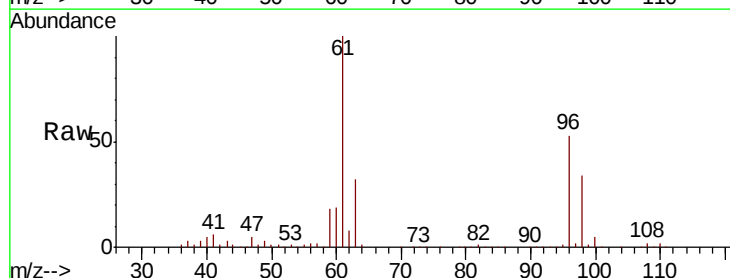
Tot Ion: 59 Resp: 178488
 Ion Ratio Lower Upper
 59 100
 57 9.2 7.7 11.5

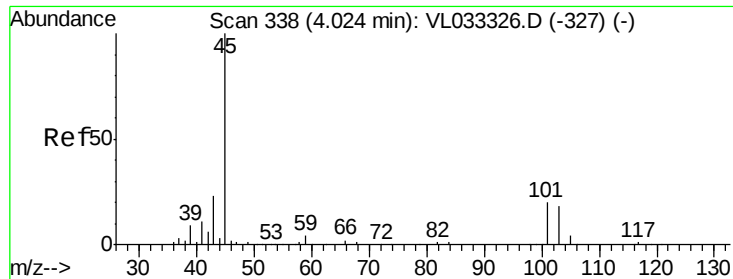


#18

1,1-Dichloroethene
 Concen: 9.871 ppbv
 RT: 4.35 min Scan# 440
 Delta R.T. -0.00 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

Tgt Ion: 96 Resp: 422865
 Ion Ratio Lower Upper
 96 100
 61 187.5 148.6 222.8
 98 64.4 50.3 75.5



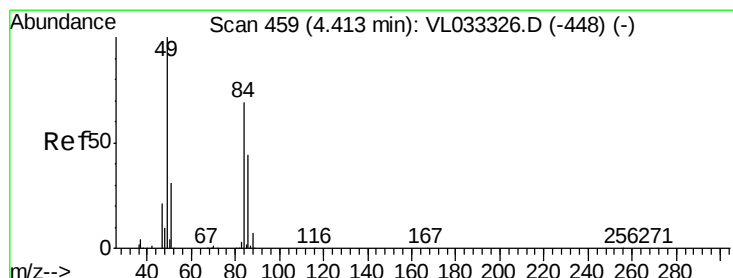
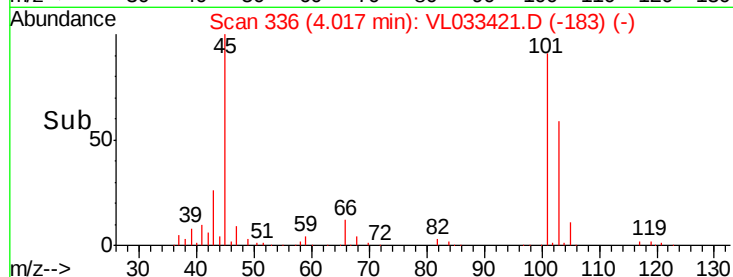
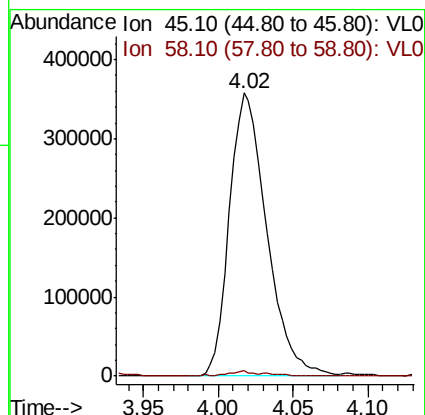
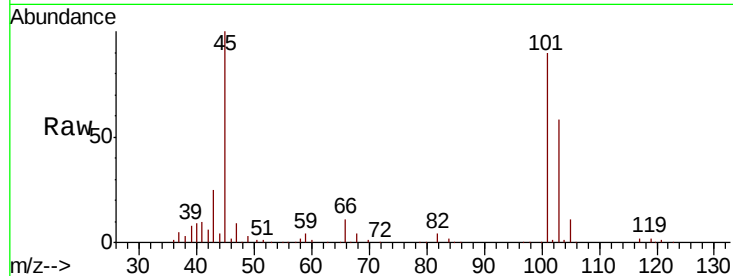


#19

Isopropyl Alcohol
 Concen: 10.439 ppbv
 RT: 4.02 min Scan# 336
 Delta R.T. -0.01 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

Instrument :
 MSVOA_L
 ClientSampleId :

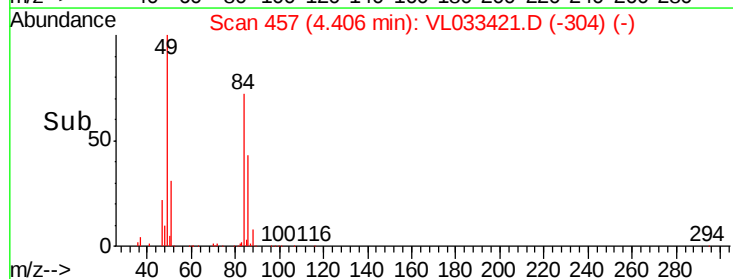
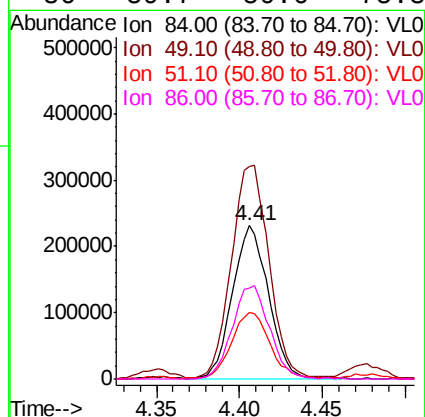
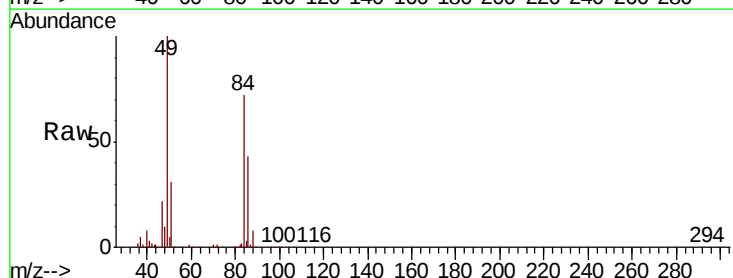
Tot Ion: 45 Resp: 622472
 Ion Ratio Lower Upper
 45 100
 58 1.9 1.5 2.3

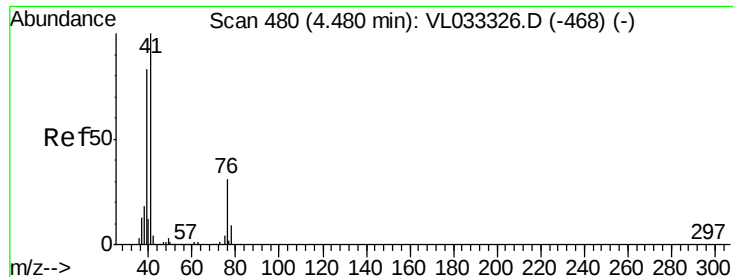


#20

Methylene Chloride
 Concen: 8.488 ppbv
 RT: 4.41 min Scan# 457
 Delta R.T. -0.01 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

Tgt Ion: 84 Resp: 347037
 Ion Ratio Lower Upper
 84 100
 49 137.7 115.4 173.0
 51 42.8 35.8 53.6
 86 59.7 50.6 75.8





#21

Allvl Chloride

Concen: 10.482 ppbv

RT: 4.48 min Scan# 479

Delta R.T. -0.00 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

ClientSampled :

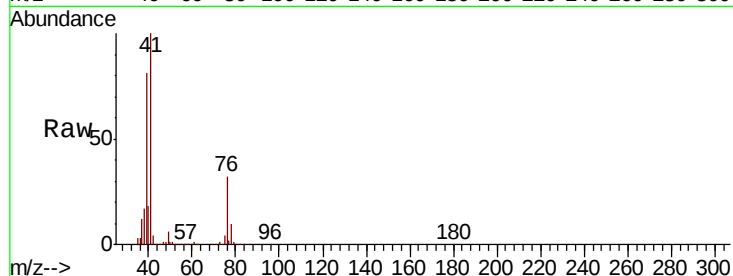
Tot Ion: 41 Resp: 637424

Ion Ratio Lower Upper

41 100

76 31.7 25.0 37.4

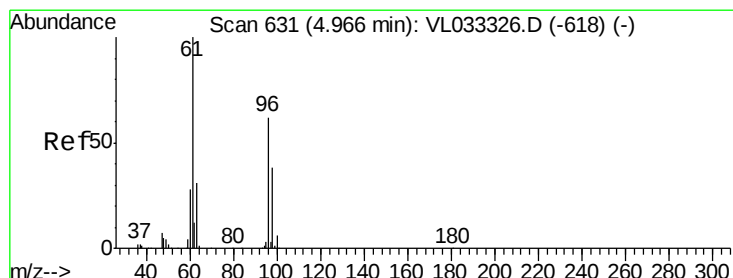
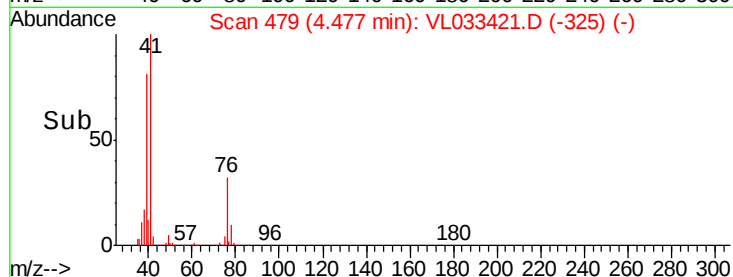
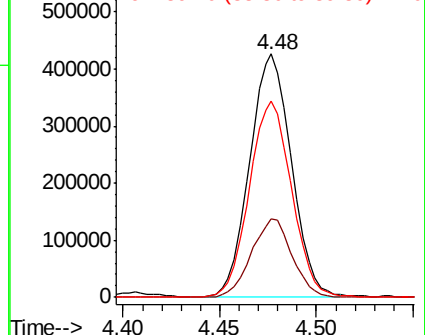
39 82.0 65.9 98.9



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: 16.682 ppbv

RT: 4.96 min Scan# 629

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

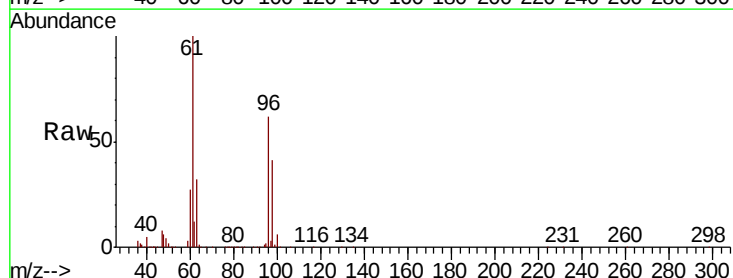
Tgt Ion: 96 Resp: 692599

Ion Ratio Lower Upper

96 100

61 160.1 130.0 195.0

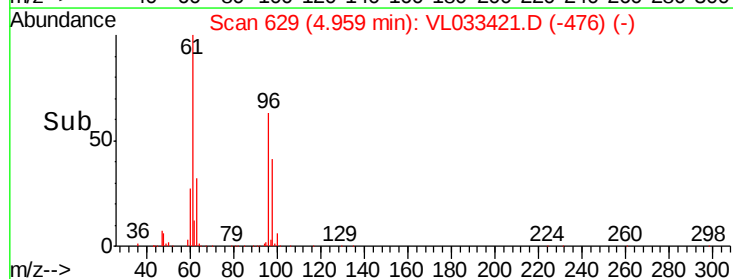
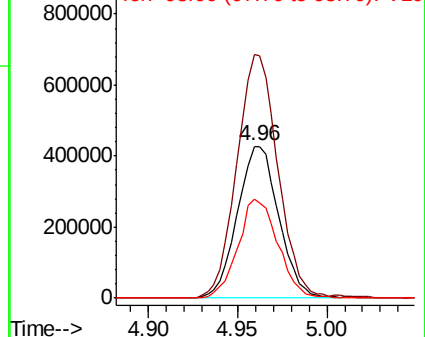
98 64.9 50.0 75.0

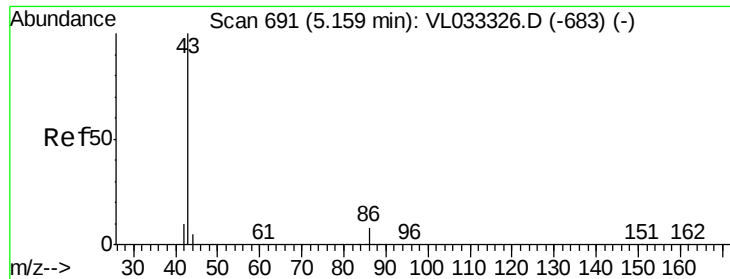


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 10.669 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

ClientSampled :

Tot Ion: 43 Resp: 1547529

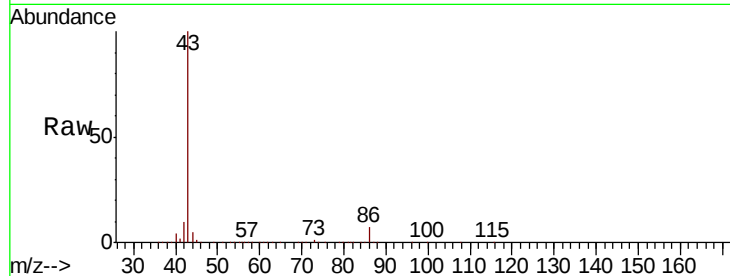
Ion Ratio Lower Upper

43 100

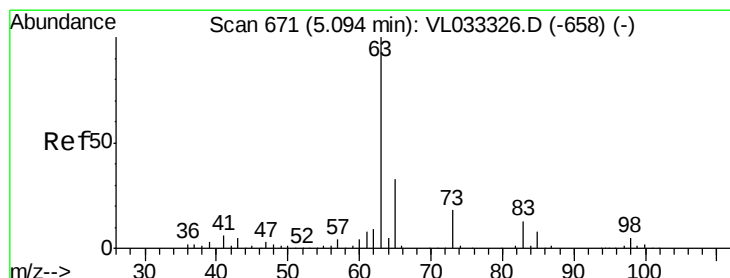
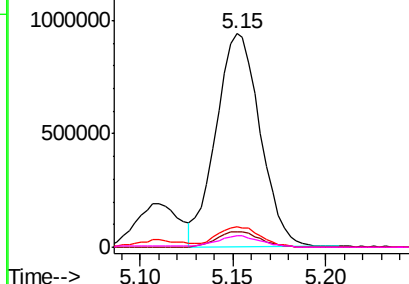
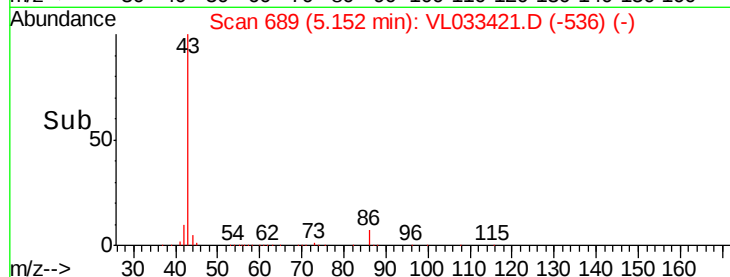
86 7.1 6.2 9.2

42 9.8 8.1 12.1

44 5.1 4.1 6.1



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: 10.451 ppbv

RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

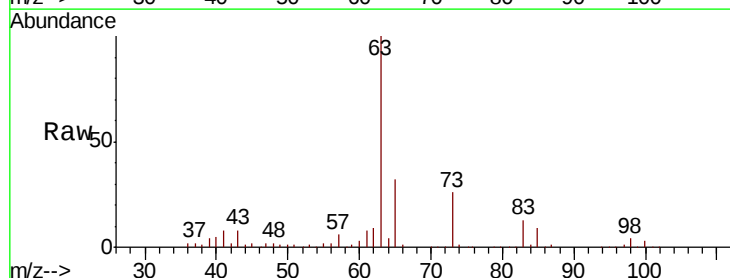
Tgt Ion: 63 Resp: 1094761

Ion Ratio Lower Upper

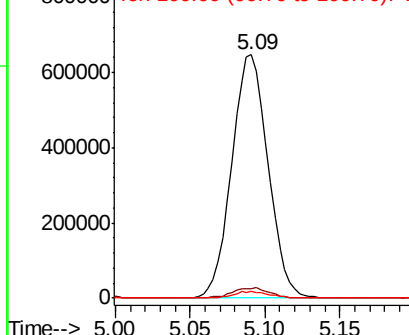
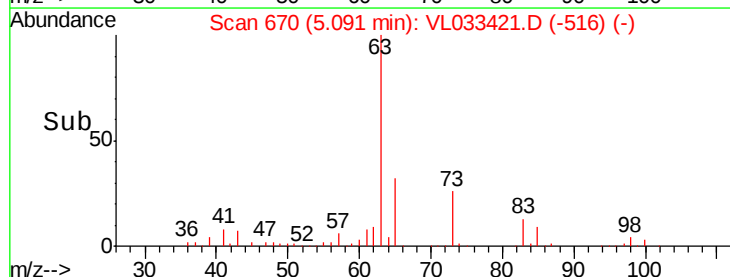
63 100

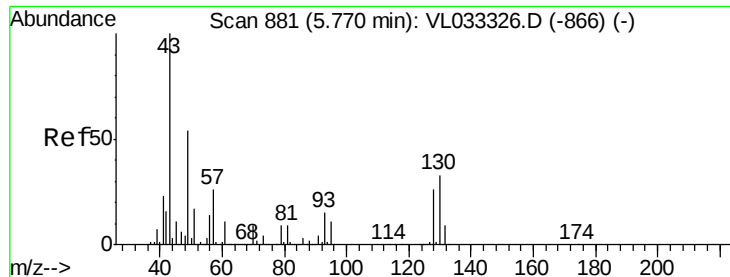
98 4.1 2.4 7.1

100 2.6 1.3 3.8



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



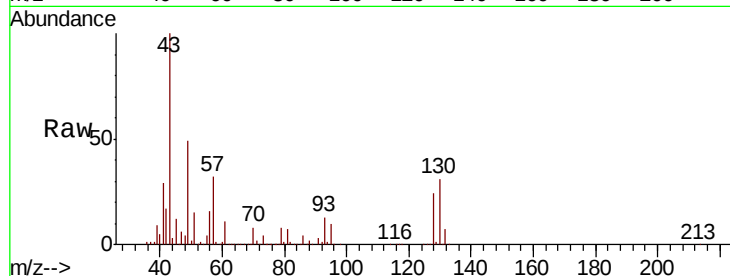


#25
Ethyl Acetate
Concen: 10.234 ppbv
RT: 5.77 min Scan# 880
Delta R.T. -0.00 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 1864832

Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.9	11.9
61	9.5	7.4	11.2
70	7.0	5.7	8.5



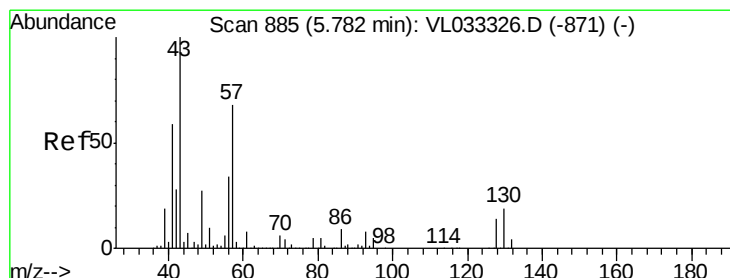
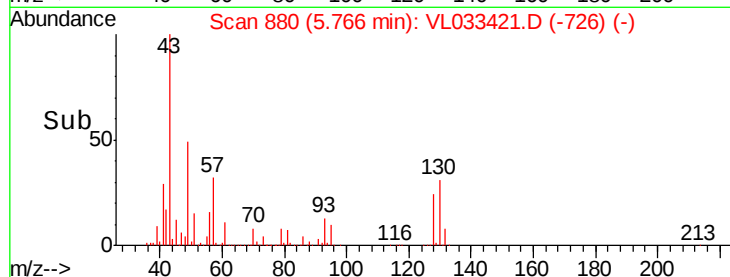
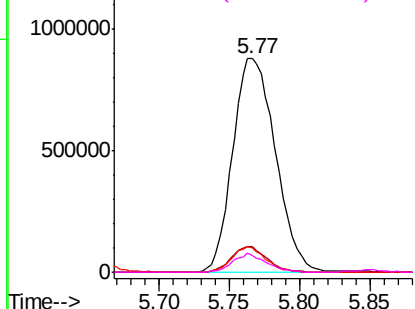
Abundance

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

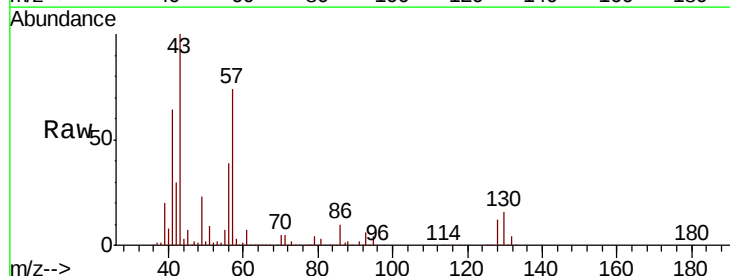
Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 10.034 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Tgt Ion: 57 Resp: 817436

Ion	Ratio	Lower	Upper
57	100		
41	89.9	70.5	105.7
43	229.4	181.8	272.8
56	53.7	42.2	63.2



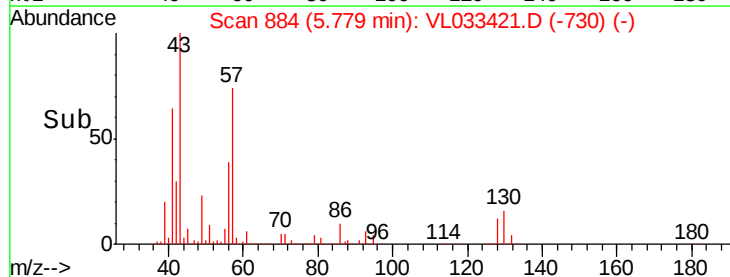
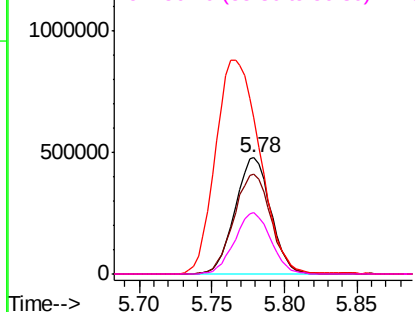
Abundance

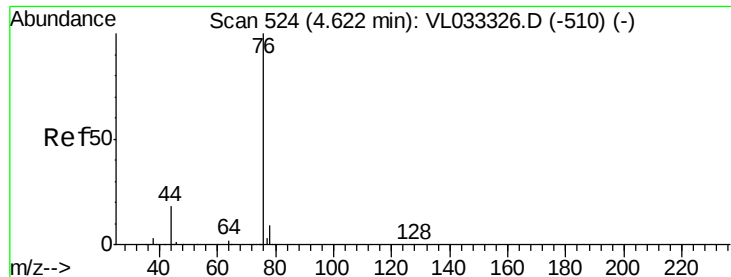
Ion 57.10 (56.80 to 57.80): VL0

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: 17.563 ppbv

RT: 4.62 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

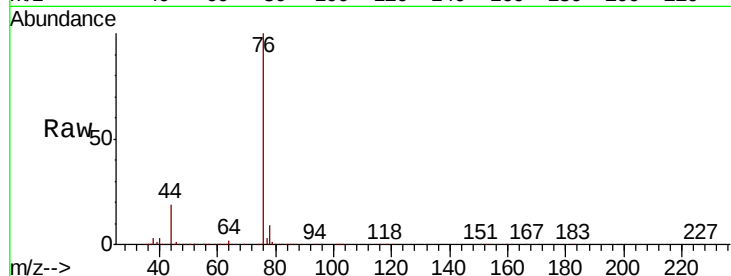
Instrument :

MSVOA_L

ClientSampled :

Tot Ion: 76 Resp: 1647139

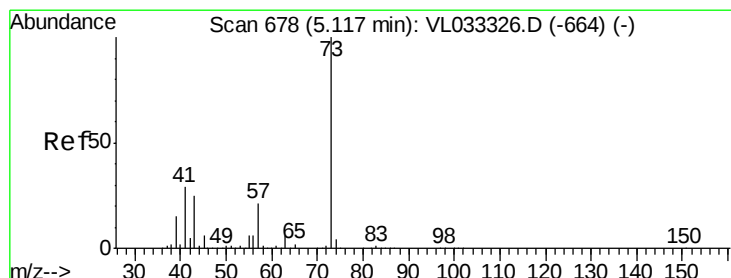
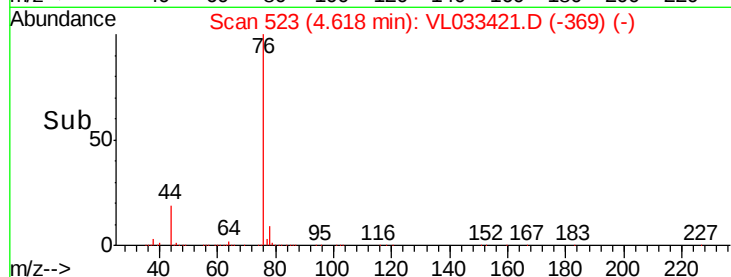
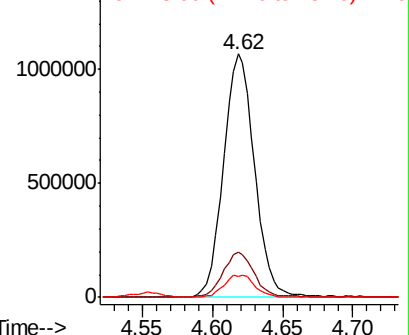
Ion	Ratio	Lower	Upper
76	100		
44	18.6	15.2	22.8
78	9.4	7.2	10.8



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.921 ppbv

RT: 5.11 min Scan# 676

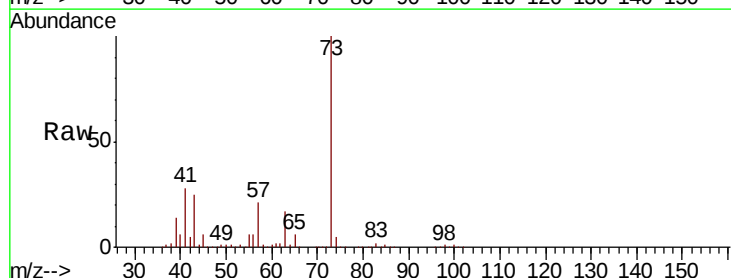
Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

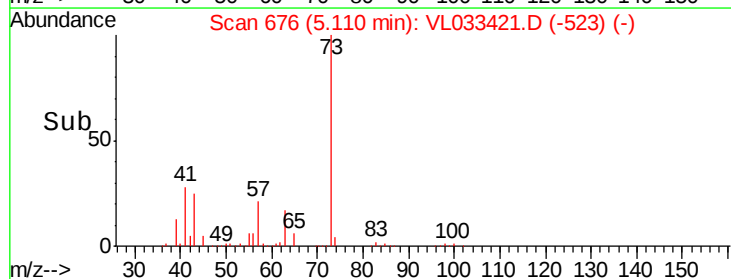
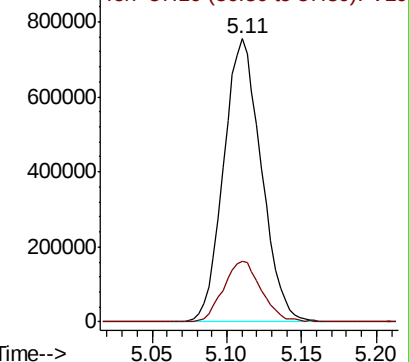
Tgt Ion: 73 Resp: 1321541

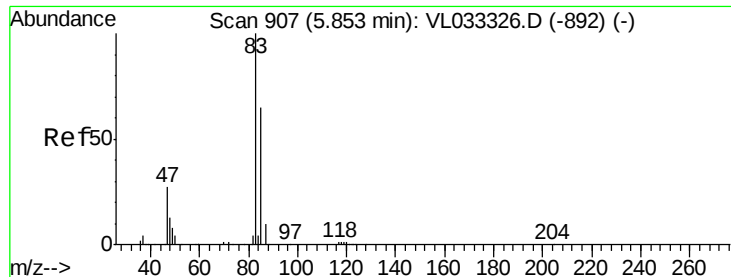
Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.4	26.0



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 10.505 ppbv

RT: 5.85 min Scan# 905

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

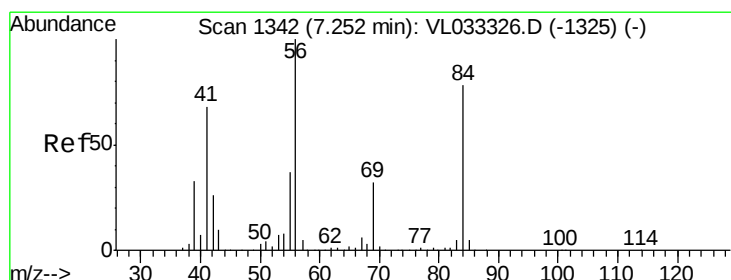
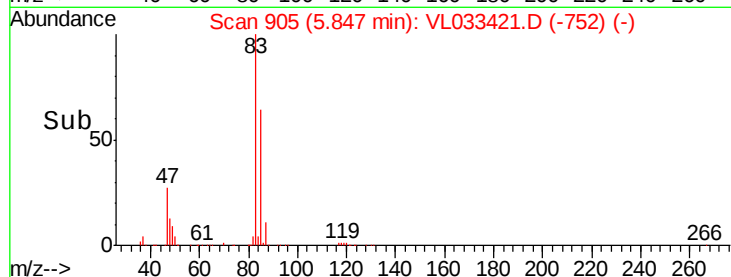
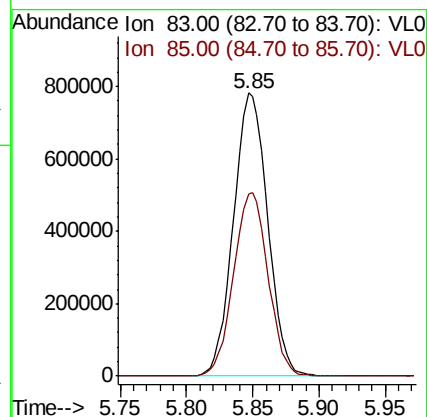
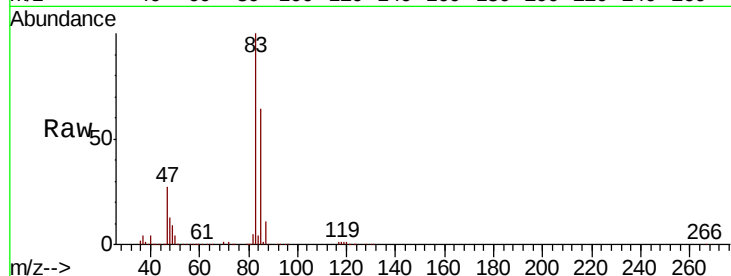
ClientSampleId :

Tot Ion: 83 Resp: 1401323

Ion Ratio Lower Upper

83 100

85 64.4 52.0 78.0



#30

Cyclohexane

Concen: 10.918 ppbv

RT: 7.25 min Scan# 1340

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

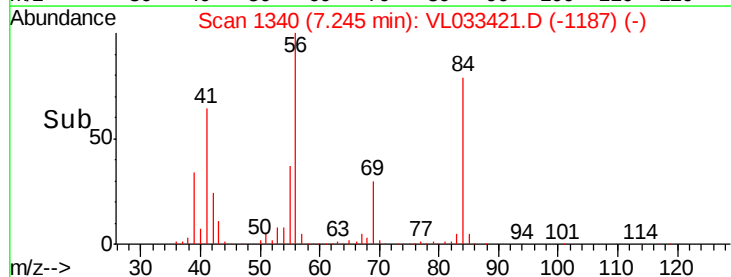
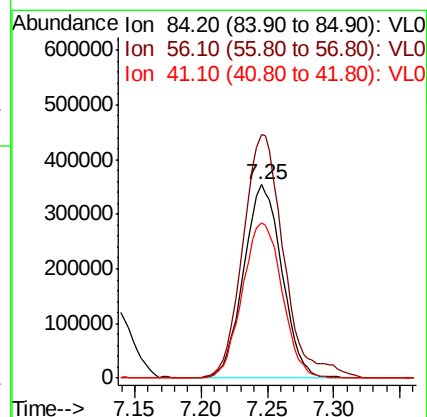
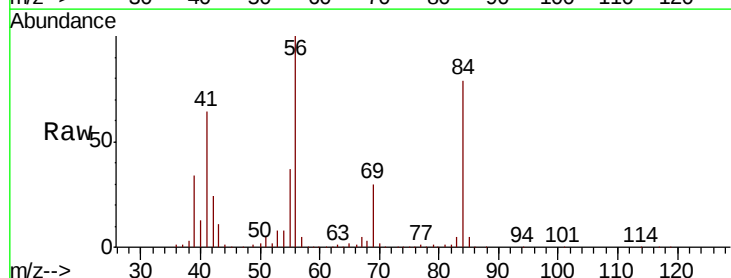
Tgt Ion: 84 Resp: 713149

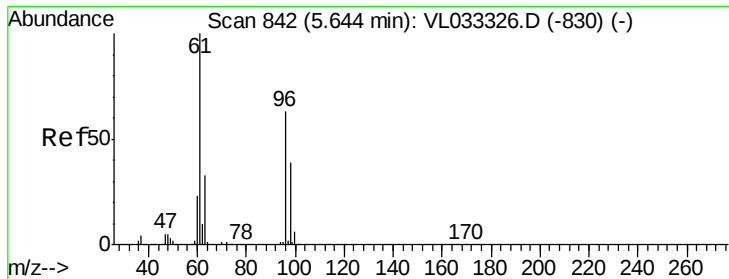
Ion Ratio Lower Upper

84 100

56 133.9 111.3 166.9

41 83.4 69.6 104.4



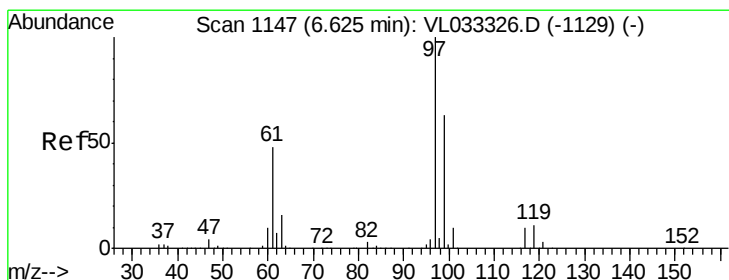
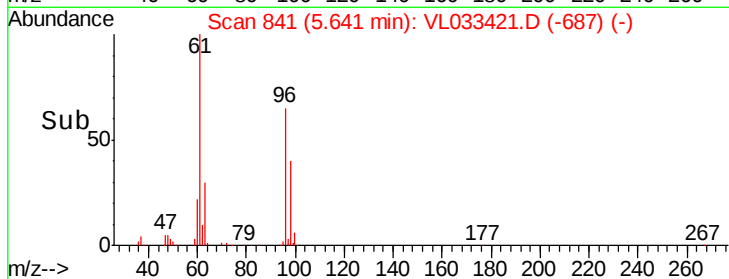
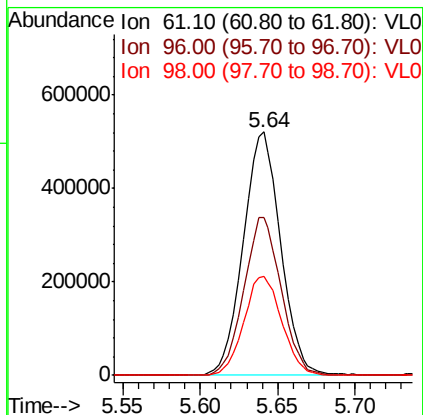
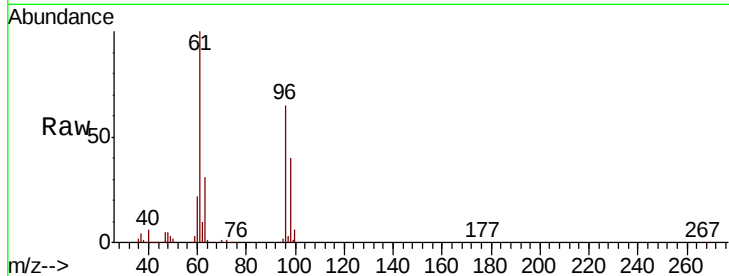


#31

cis-1,2-Dichloroethene
 Concen: 10.787 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. -0.00 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

Instrument :
 MSVOA_L
 ClientSampleId :

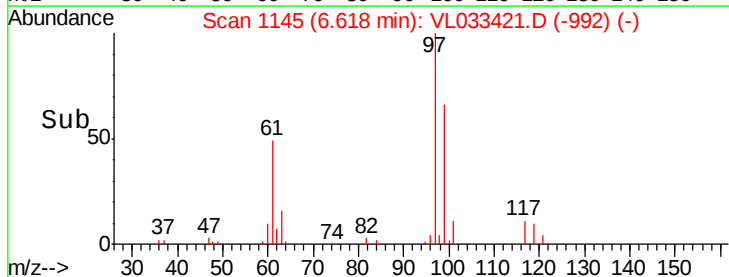
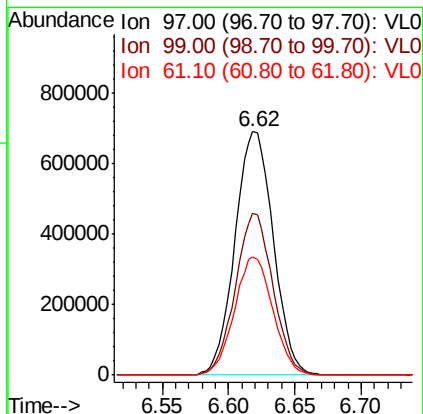
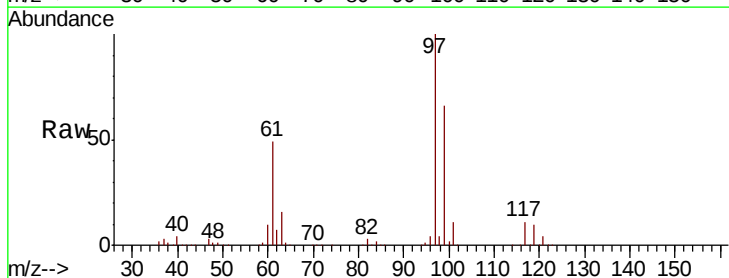
Tot Ion	61	Resp	878648
Ion Ratio	Lower	Upper	
61	100		
96	64.9	50.3	75.5
98	40.4	31.5	47.3

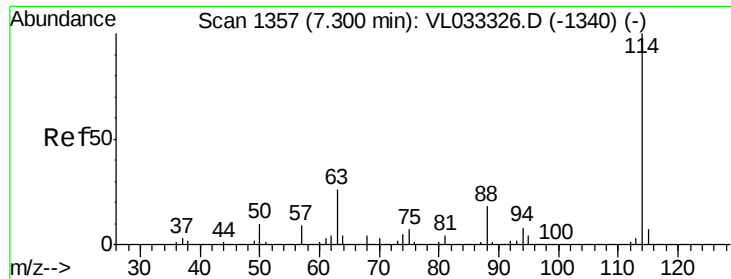


#32

1,1,1-Trichloroethane
 Concen: 10.634 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. -0.01 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

Tgt Ion	97	Resp	1392771
Ion Ratio	Lower	Upper	
97	100		
99	64.8	51.0	76.6
61	48.7	39.3	58.9

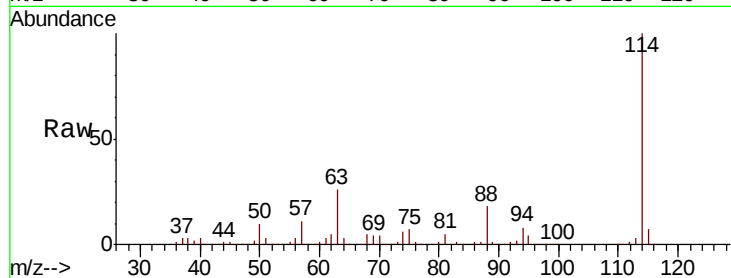




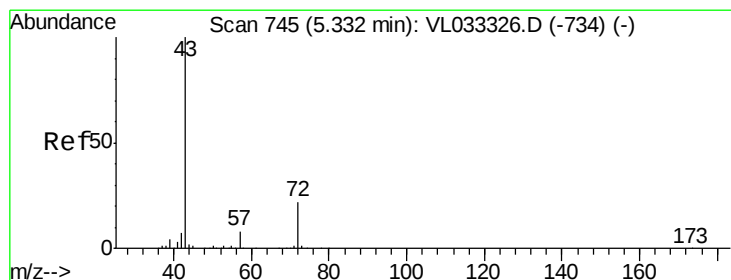
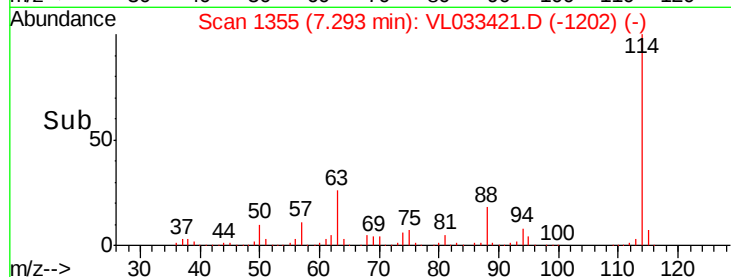
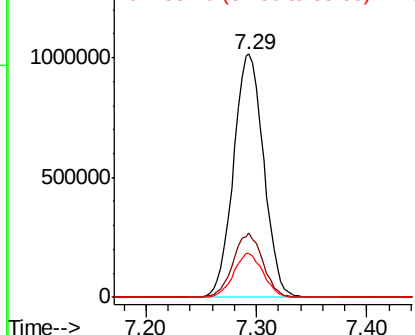
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.01 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

Instrument :
 MSVOA_L
 ClientSampleID :

Tot Ion:114 Resp: 1921275
 Ion Ratio Lower Upper
 114 100
 63 26.3 21.4 32.2
 88 17.7 14.5 21.7

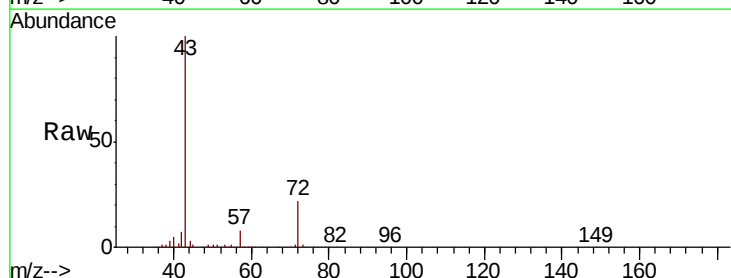


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

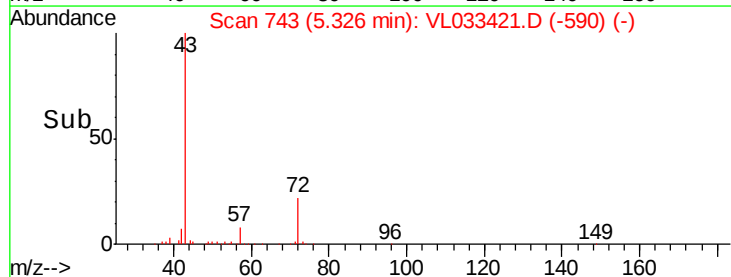
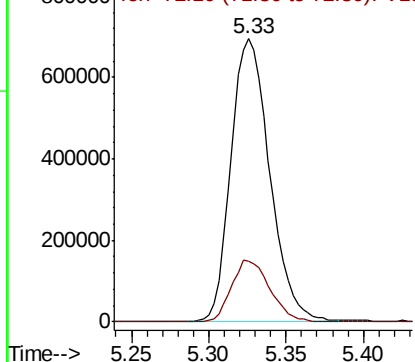


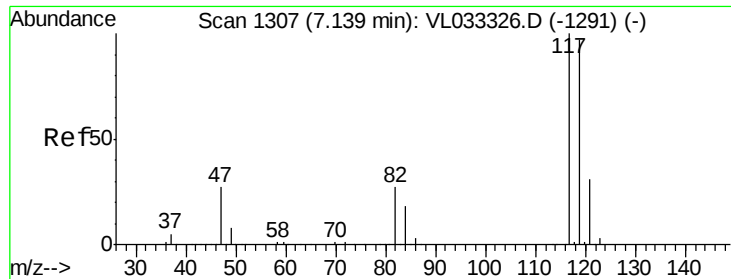
#34
 2-Butanone
 Concen: 9.554 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. -0.01 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

Tgt Ion: 43 Resp: 1205550
 Ion Ratio Lower Upper
 43 100
 72 21.9 17.7 26.5



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





#35

Carbon Tetrachloride

Concen: 10.760 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

ClientSampleId :

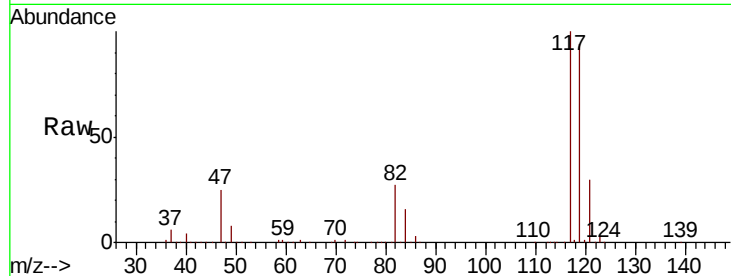
Tot Ion:117 Resp: 1457461

Ion Ratio Lower Upper

117 100

119 93.7 77.4 116.0

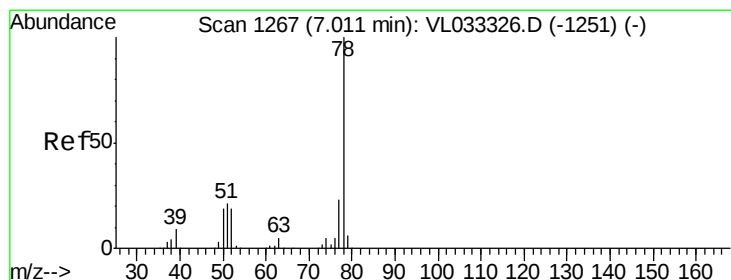
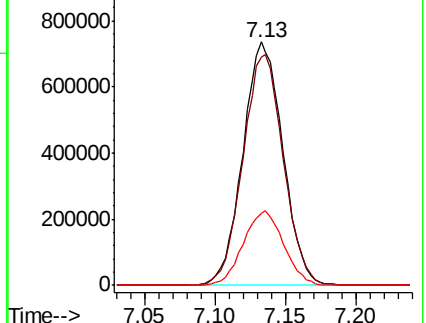
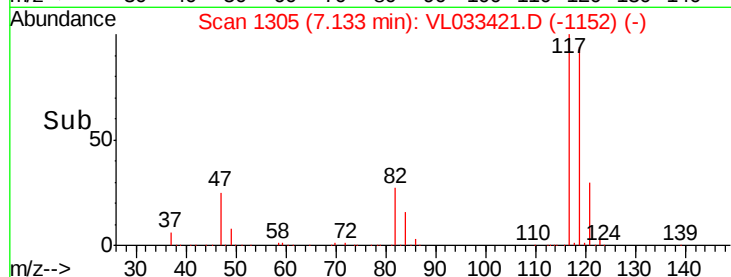
121 29.9 24.9 37.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.223 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

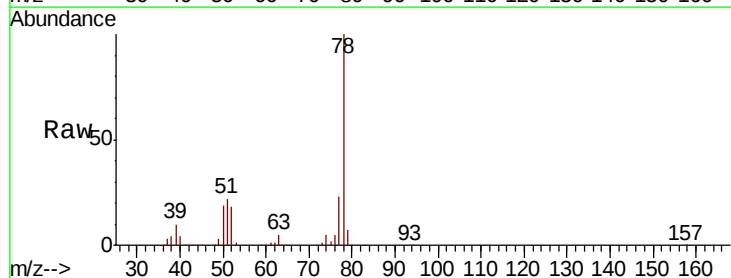
Tgt Ion: 78 Resp: 1757742

Ion Ratio Lower Upper

78 100

77 23.2 18.1 27.1

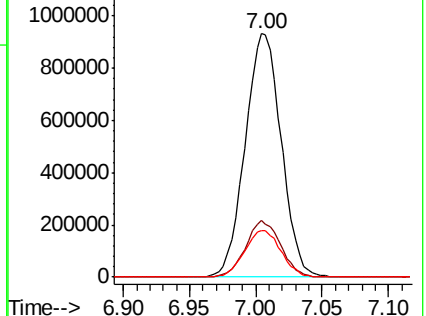
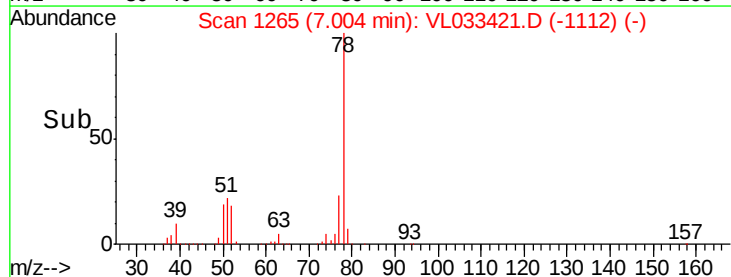
50 19.1 15.2 22.8

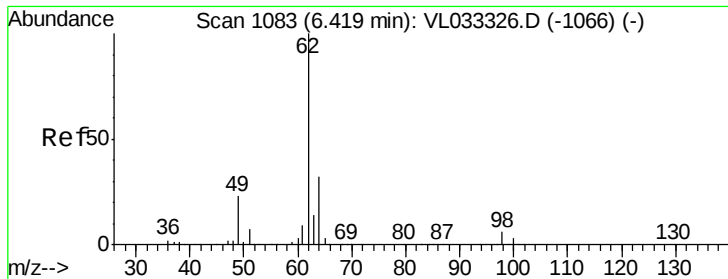


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

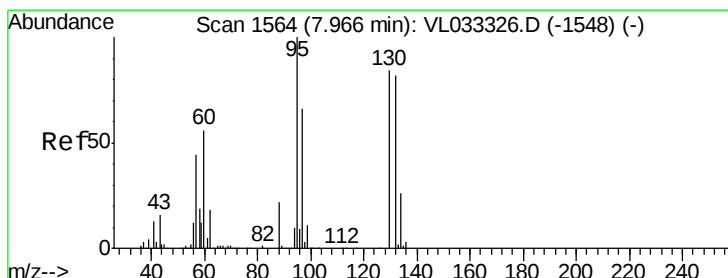
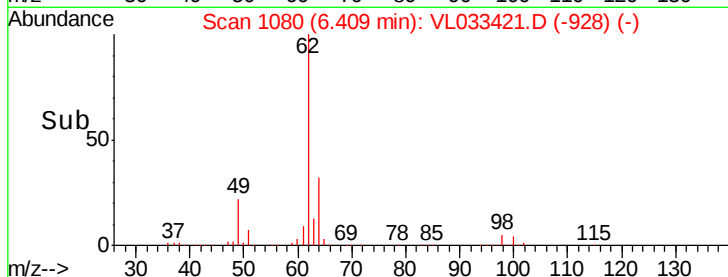
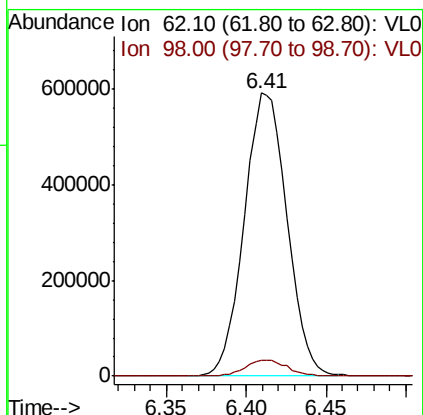
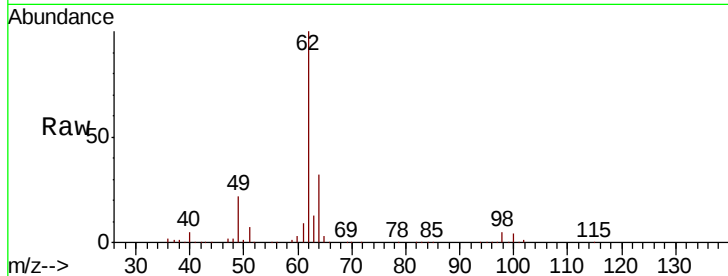




#37
 1,2-Dichloroethane
 Concen: 9.969 ppbv
 RT: 6.41 min Scan# 1080
 Delta R.T. -0.01 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

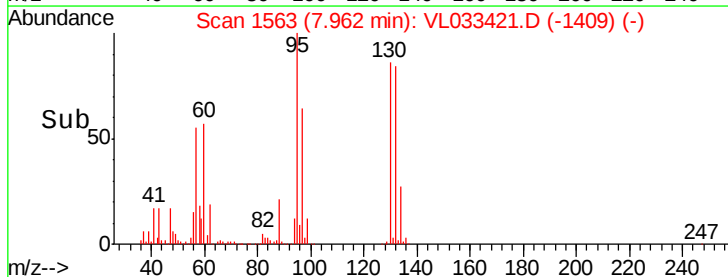
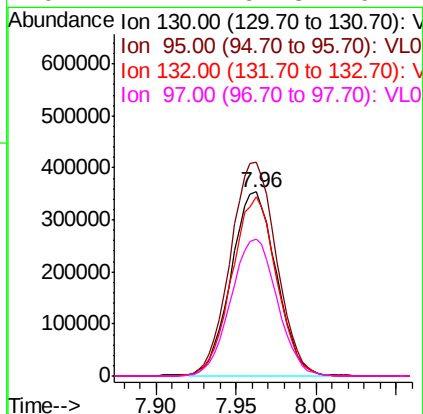
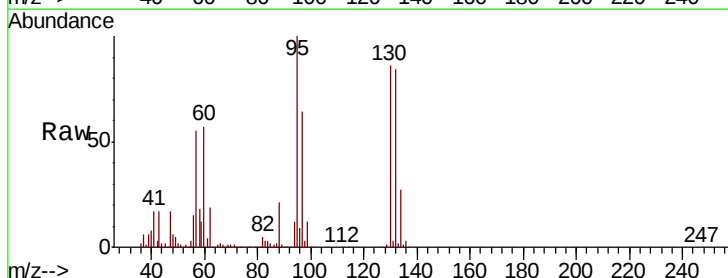
Instrument :
 MSVOA_L
 ClientSampleId :

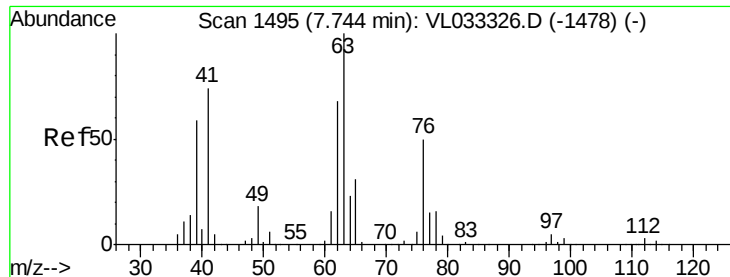
Tot Ion: 62 Resp: 1083842
 Ion Ratio Lower Upper
 62 100
 98 5.6 4.5 6.7



#38
 Trichloroethene
 Concen: 10.446 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. -0.00 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

Tgt Ion:130 Resp: 679671
 Ion Ratio Lower Upper
 130 100
 95 115.9 95.2 142.8
 132 97.4 77.7 116.5
 97 74.1 62.8 94.2





#39

1,2-Dichloropropane

Concen: 10.554 ppbv

RT: 7.74 min Scan# 1493

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

ClientSampleId :

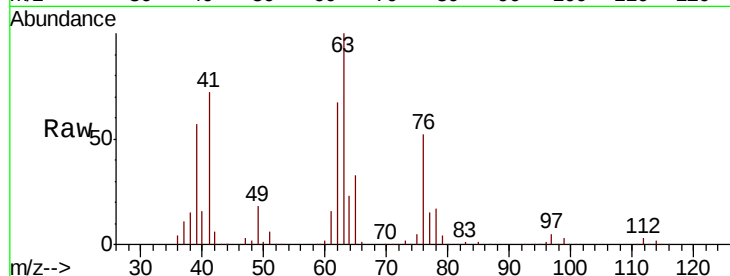
Tot Ion: 63 Resp: 679592

Ion Ratio Lower Upper

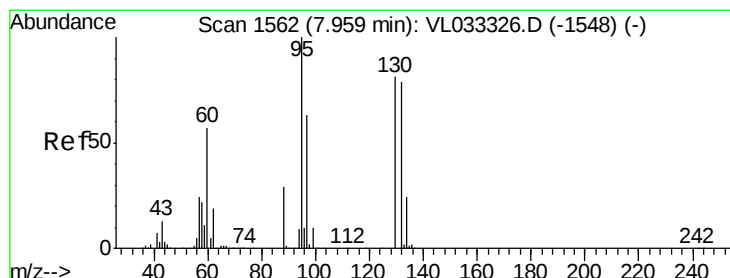
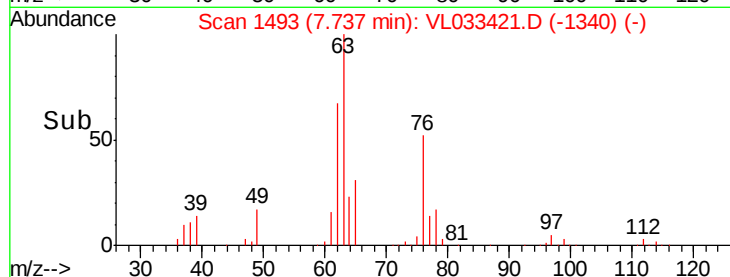
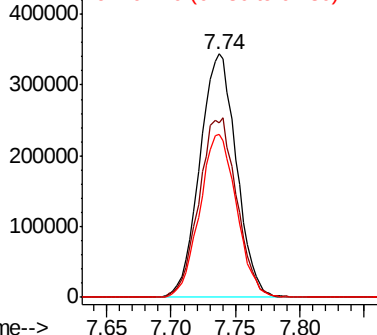
63 100

41 71.8 59.5 89.3

62 67.0 54.7 82.1



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: 10.750 ppbv

RT: 7.95 min Scan# 1559

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Tgt Ion: 88 Resp: 243749

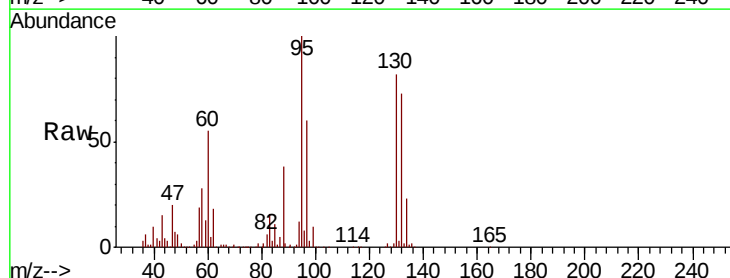
Ion Ratio Lower Upper

88 100

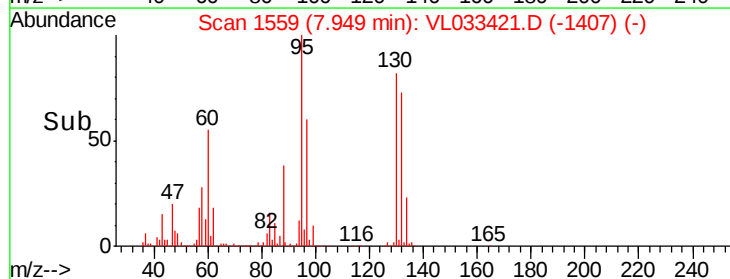
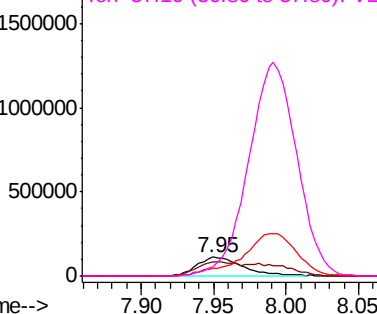
58 129.3 107.9 161.9

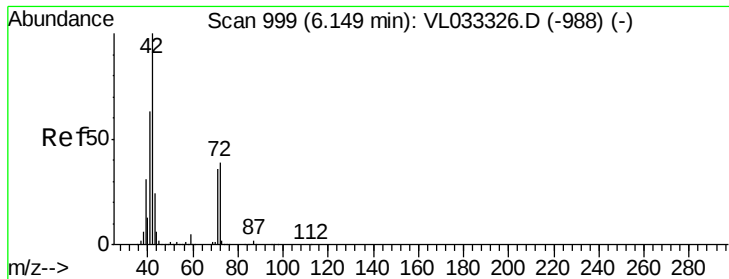
43 270.4 230.8 346.2

57 1206.1 1035.3 1552.9



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: 10.526 ppbv

RT: 6.14 min Scan# 997

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

ClientSampleId :

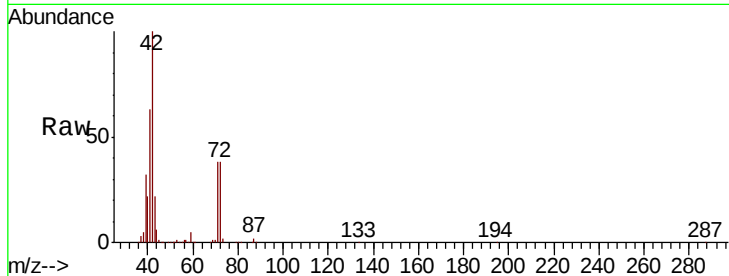
Tot Ion: 42 Resp: 708749

Ion Ratio Lower Upper

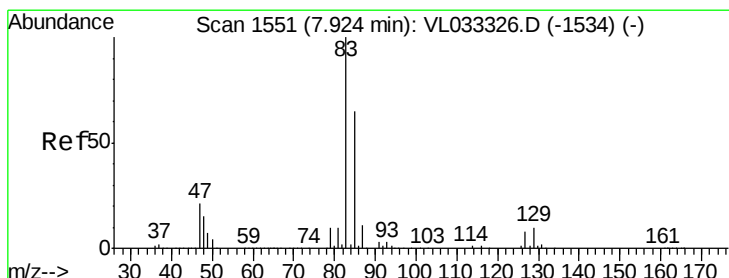
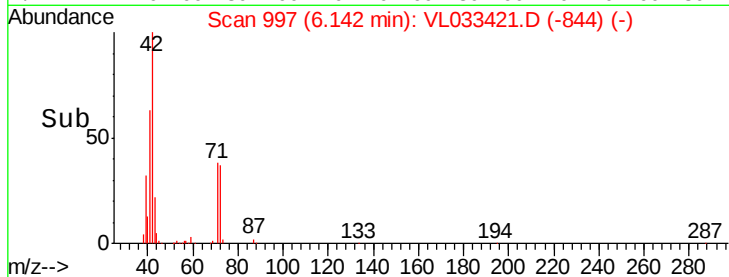
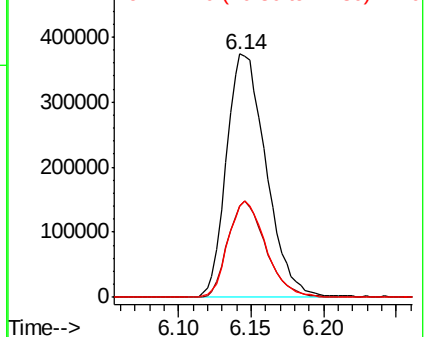
42 100

72 37.9 31.6 47.4

71 38.0 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: 10.608 ppbv

RT: 7.92 min Scan# 1549

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

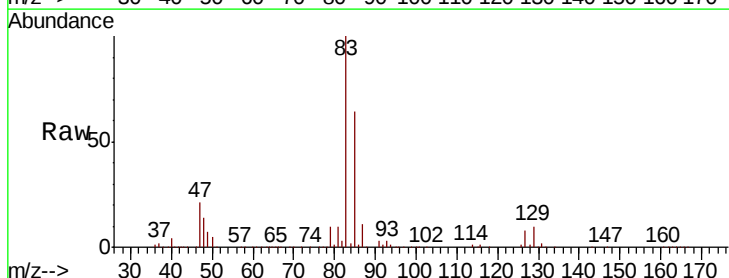
Tgt Ion: 83 Resp: 1546322

Ion Ratio Lower Upper

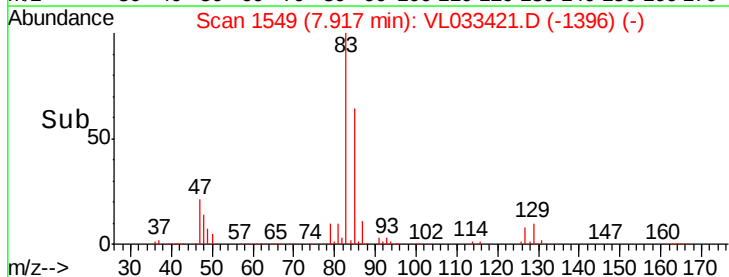
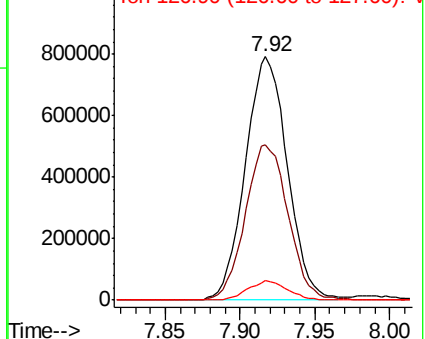
83 100

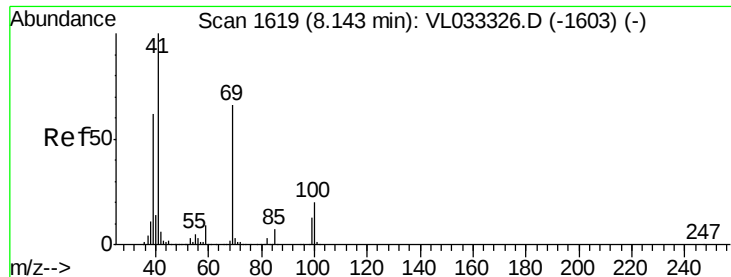
85 63.7 51.8 77.6

127 8.1 6.2 9.2



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

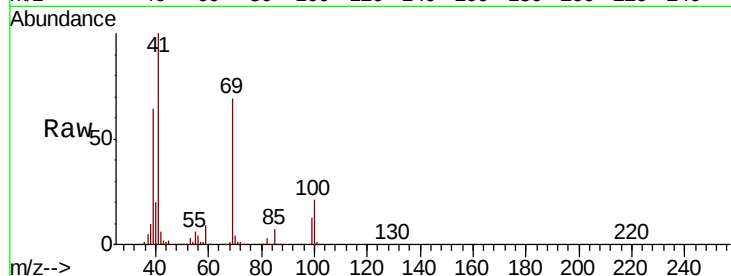




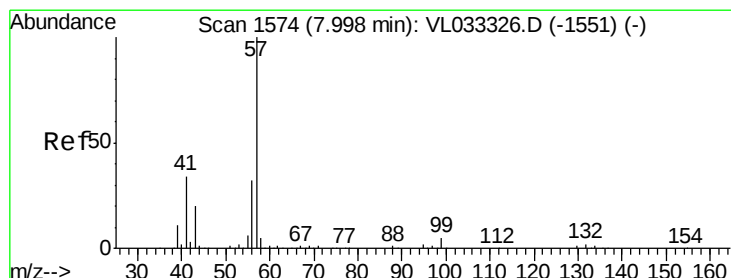
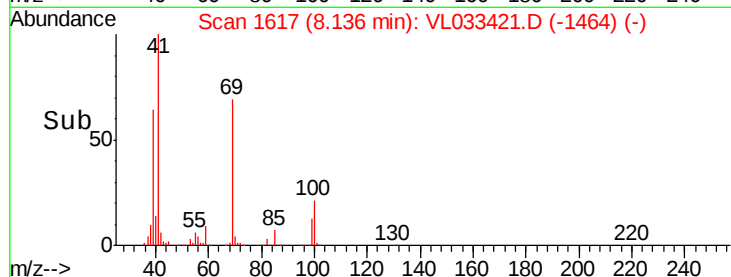
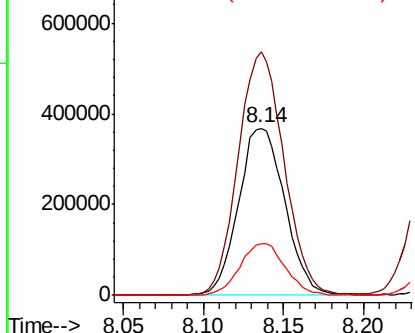
#43
Methyl Methacrylate
Concen: 10.856 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. -0.01 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 69 Resp: 726812
Ion Ratio Lower Upper
69 100
41 144.5 119.5 179.3
100 30.5 24.4 36.6

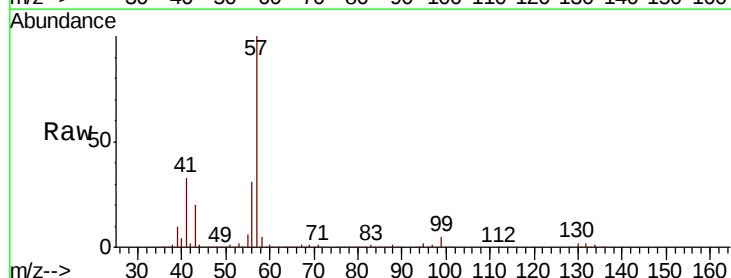


Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0

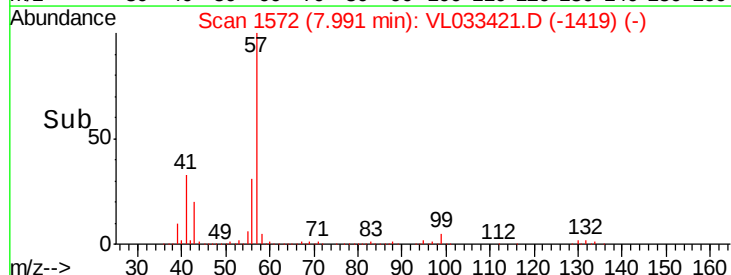
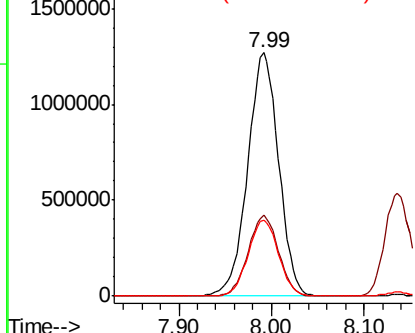


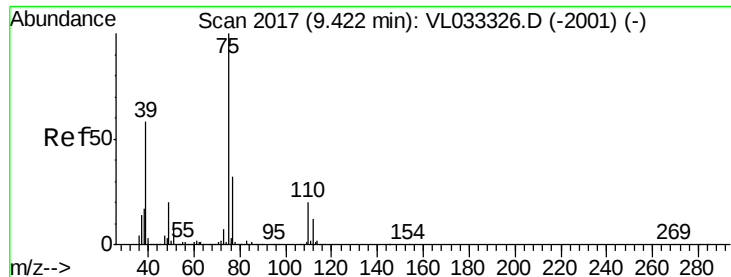
#44
2,2,4-Trimethylpentane
Concen: 10.318 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.01 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Tgt Ion: 57 Resp: 2938551
Ion Ratio Lower Upper
57 100
41 32.5 26.0 39.0
56 30.8 24.6 36.8



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#45

t-1,3-Dichloropropene

Concen: 11.679 ppbv

RT: 9.42 min Scan# 2015

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

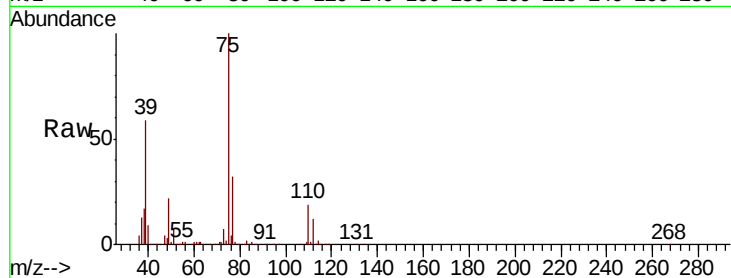
ClientSampled :

Tot Ion: 75 Resp: 965360

Ion Ratio Lower Upper

75 100

77 32.1 25.5 38.3



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.42

500000

400000

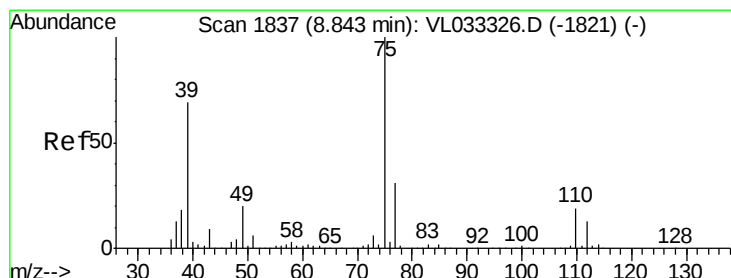
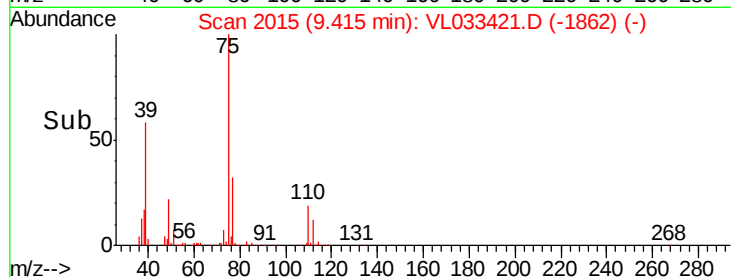
300000

200000

100000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 11.267 ppbv

RT: 8.84 min Scan# 1835

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

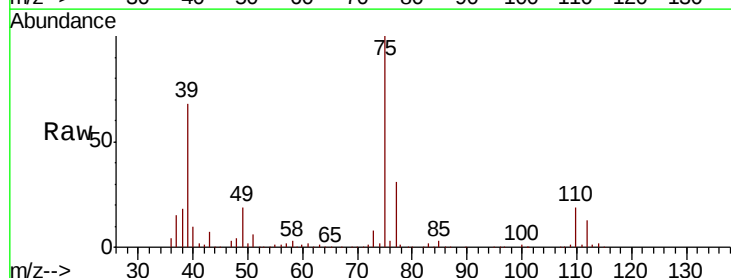
Tgt Ion: 75 Resp: 1096569

Ion Ratio Lower Upper

75 100

39 68.3 55.0 82.6

77 31.4 24.5 36.7



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

8.84

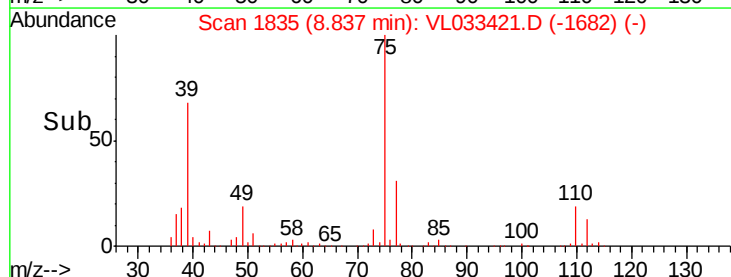
600000

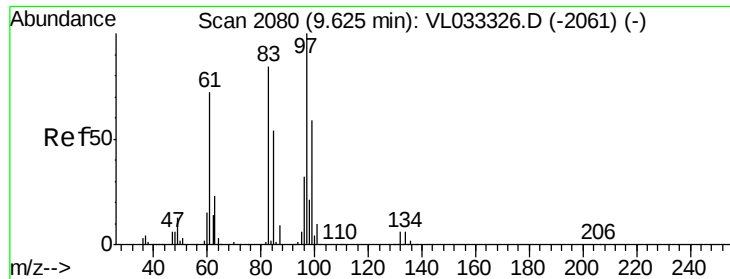
400000

200000

0

Time-->

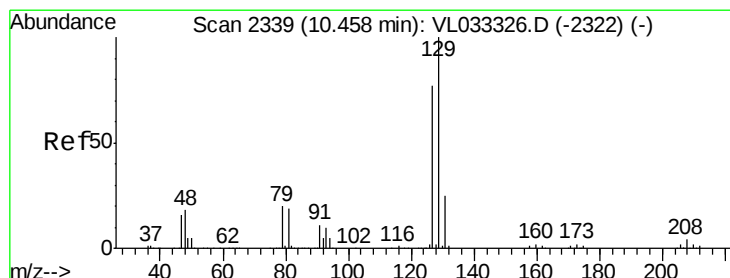
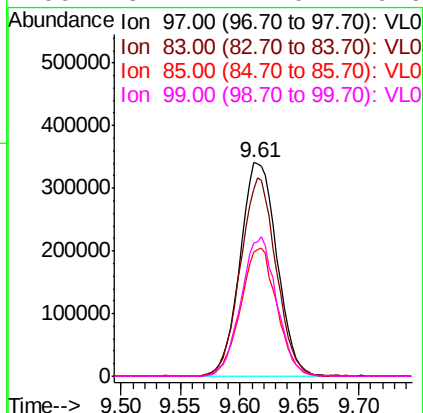
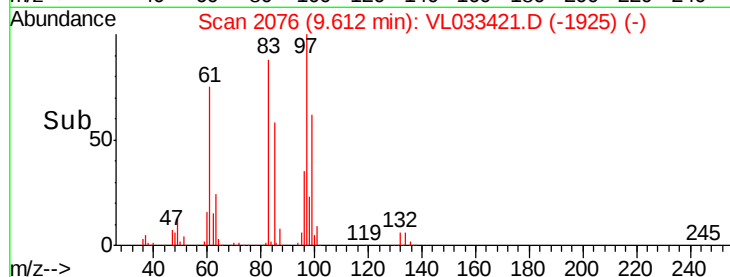
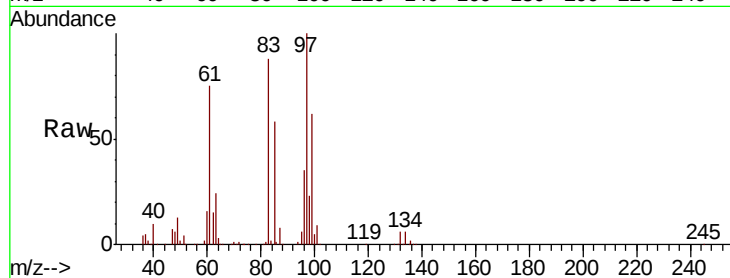




#47
 1,1,2-Trichloroethane
 Concen: 10.301 ppbv
 RT: 9.61 min Scan# 2076
 Delta R.T. -0.01 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

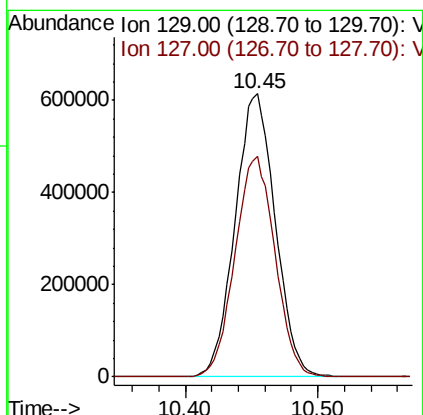
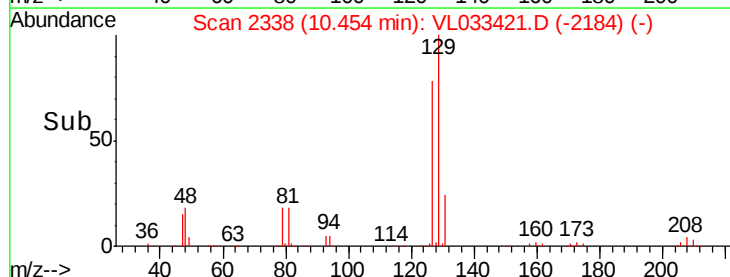
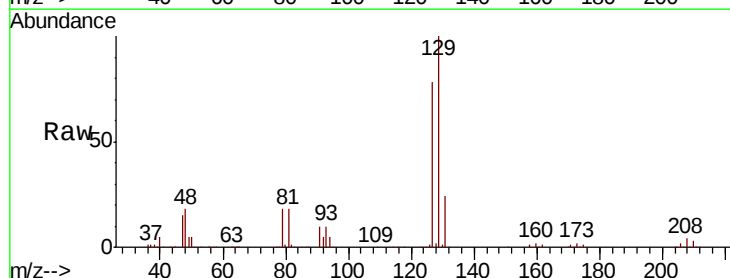
Instrument :
 MSVOA_L
 ClientSampled :

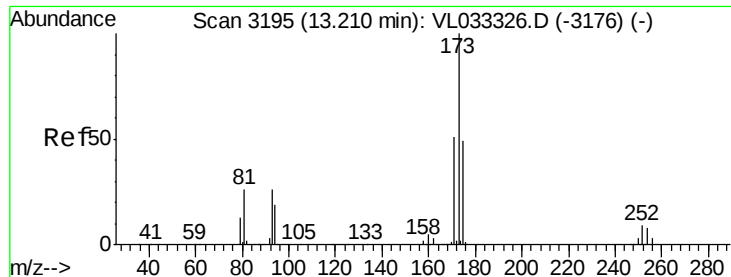
Tot Ion: 97 Resp: 732875
 Ion Ratio Lower Upper
 97 100
 83 87.7 67.4 101.0
 85 58.4 43.0 64.4
 99 62.4 47.0 70.6



#48
 Dibromochloromethane
 Concen: 10.842 ppbv
 RT: 10.45 min Scan# 2338
 Delta R.T. -0.00 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

Tgt Ion: 129 Resp: 1293633
 Ion Ratio Lower Upper
 129 100
 127 77.8 38.9 116.6





#49

Bromoform

Concen: 10.469 ppbv

RT: 13.21 min Scan# 3194

Delta R.T. -0.00 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

ClientSampleId :

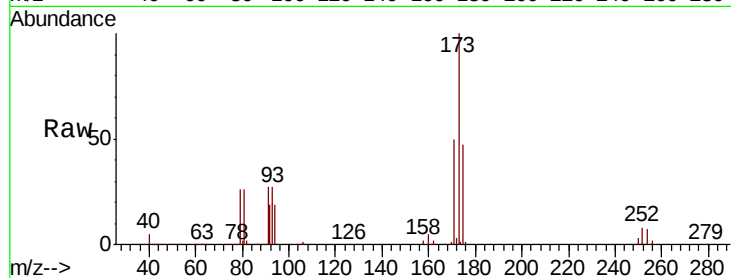
Tot Ion:173 Resp: 1184930

Ion Ratio Lower Upper

173 100

175 48.6 39.0 58.6

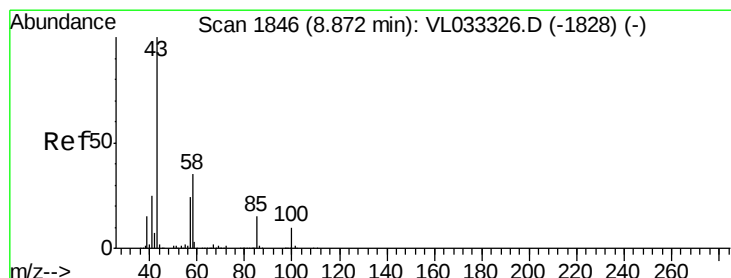
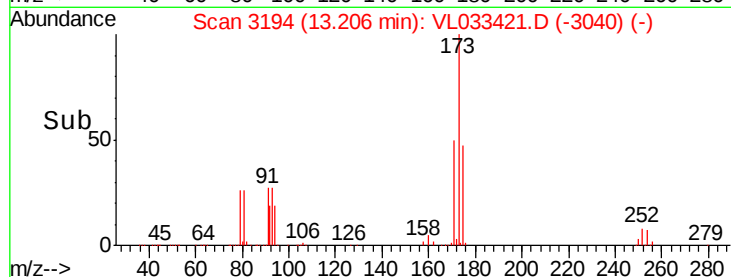
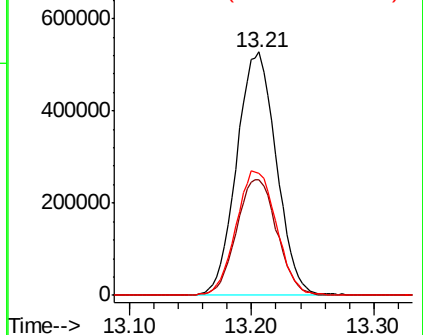
171 52.3 41.7 62.5



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.093 ppbv

RT: 8.87 min Scan# 1845

Delta R.T. -0.00 min

Lab File: VL033421.D

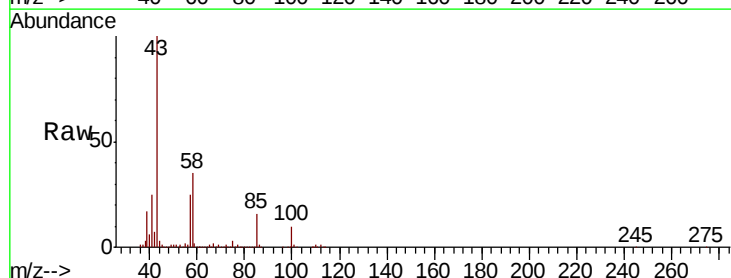
Acq: 21 Mar 2019 17:39

Tgt Ion: 43 Resp: 1798783

Ion Ratio Lower Upper

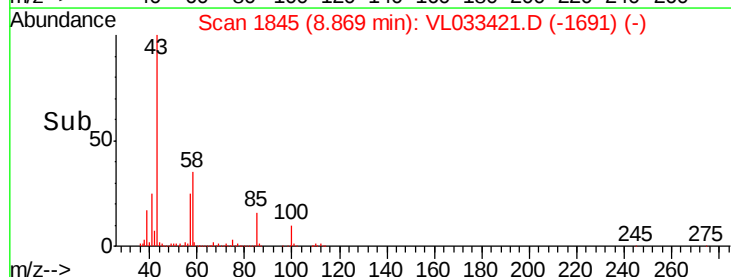
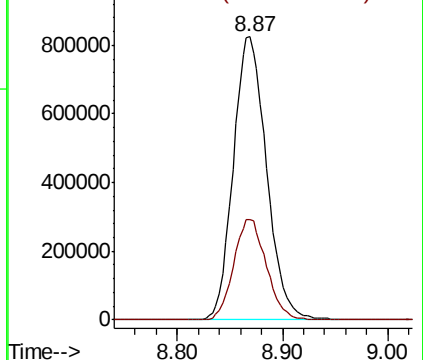
43 100

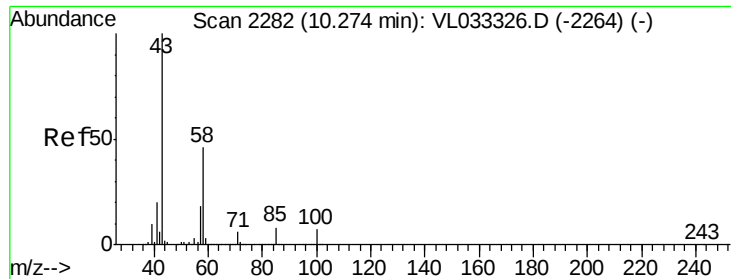
58 35.1 28.4 42.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

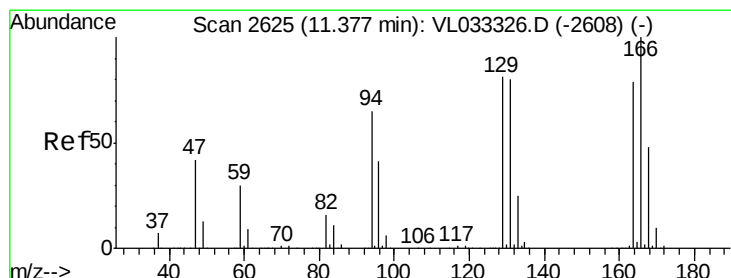
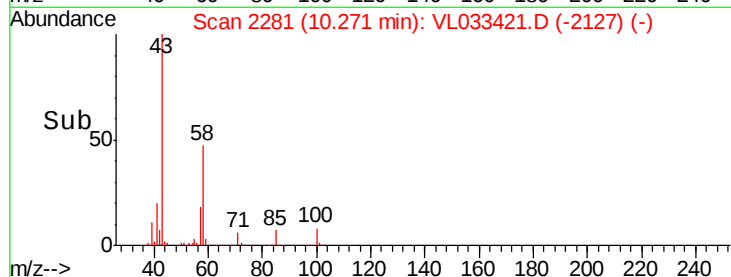
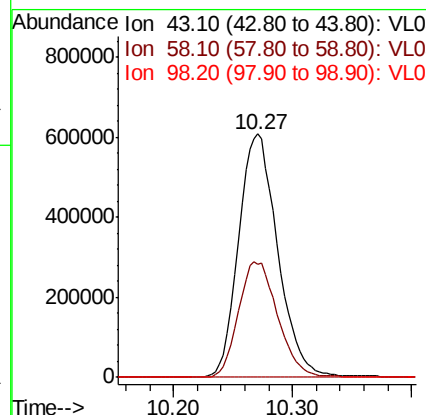
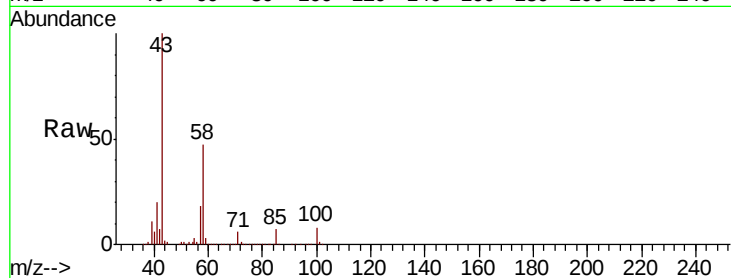




#51
2-Hexanone
Concen: 10.034 ppbv
RT: 10.27 min Scan# 2281
Delta R.T. -0.00 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

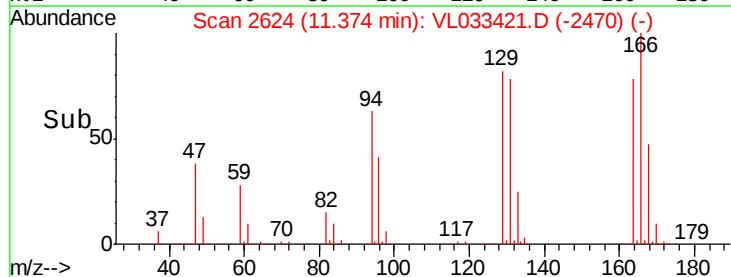
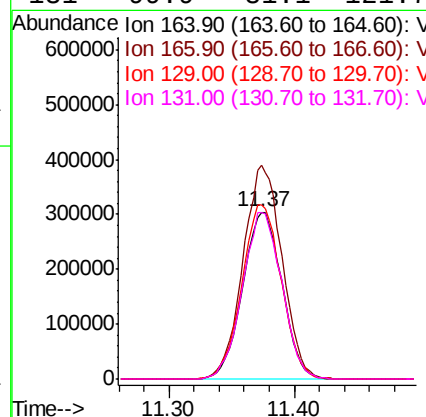
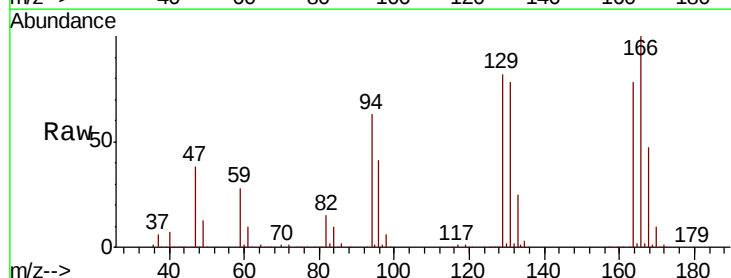
Instrument :
MSVOA_L
ClientSampleId :

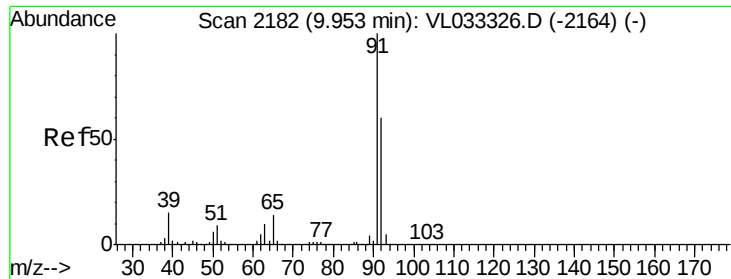
Tot Ion: 43 Resp: 1379652
Ion Ratio Lower Upper
43 100
58 48.0 38.0 57.0
98 0.2 0.1 0.1#



#52
Tetrachloroethene
Concen: 9.205 ppbv
RT: 11.37 min Scan# 2624
Delta R.T. -0.00 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Tgt Ion:164 Resp: 659399
Ion Ratio Lower Upper
164 100
166 128.0 101.5 152.3
129 104.6 82.2 123.2
131 99.9 81.1 121.7





#53

Toluene

Concen: 10.740 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.00 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

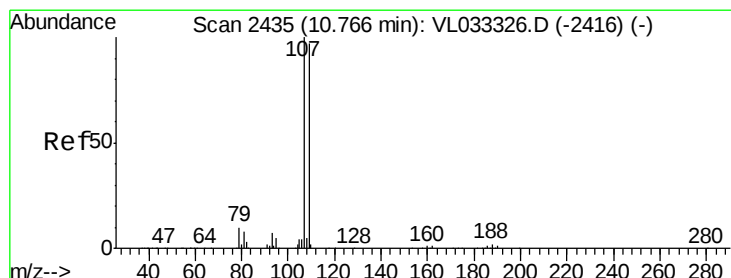
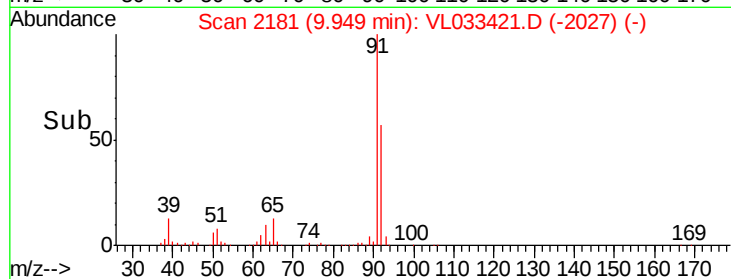
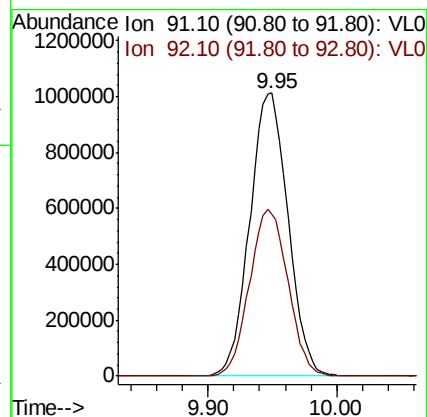
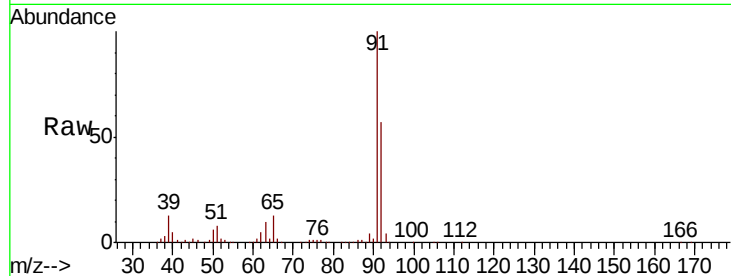
ClientSampleId :

Tot Ion: 91 Resp: 2098406

Ion Ratio Lower Upper

91 100

92 59.4 47.4 71.0



#54

1,2-Dibromoethane

Concen: 9.694 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. -0.01 min

Lab File: VL033421.D

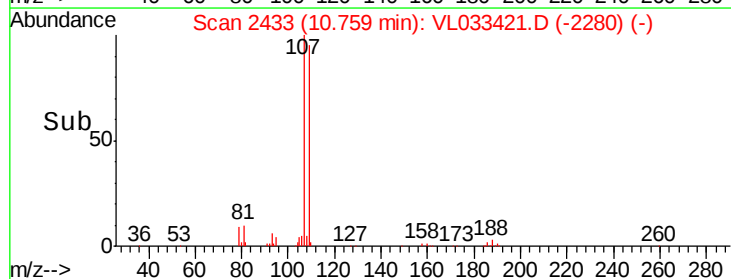
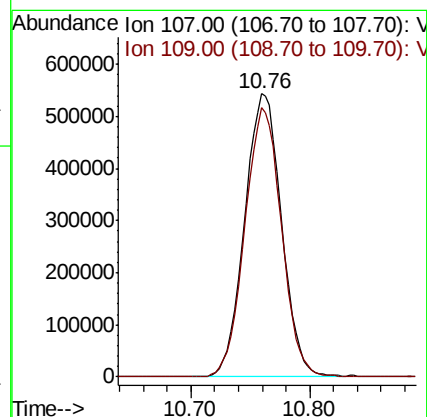
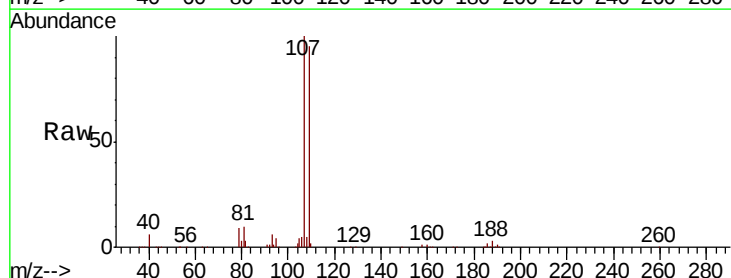
Acq: 21 Mar 2019 17:39

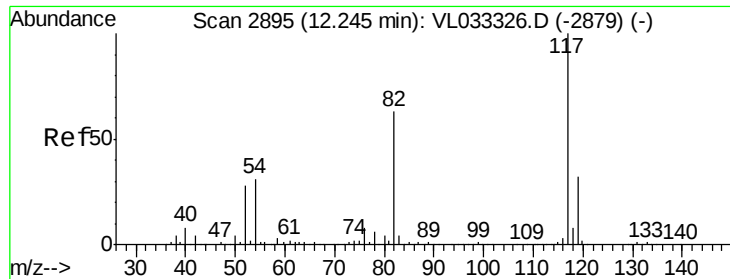
Tgt Ion: 107 Resp: 1165915

Ion Ratio Lower Upper

107 100

109 95.2 77.2 115.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2894

Delta R.T. -0.00 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

ClientSampleId :

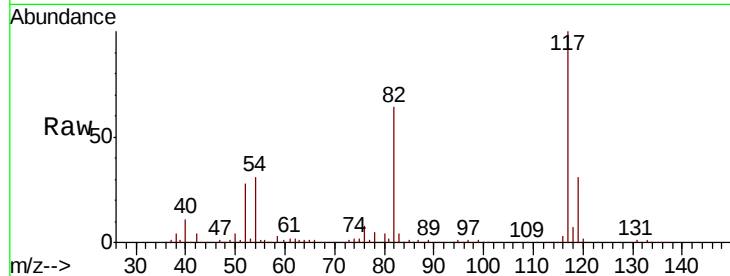
Tot Ion:117 Resp: 2414639

Ion Ratio Lower Upper

117 100

82 52.7 53.4 80.2#

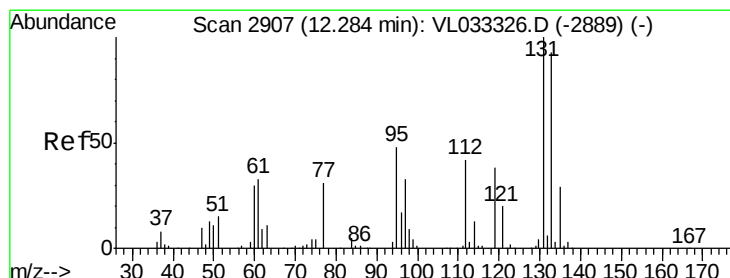
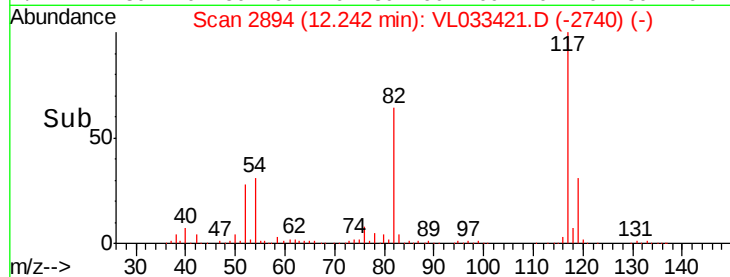
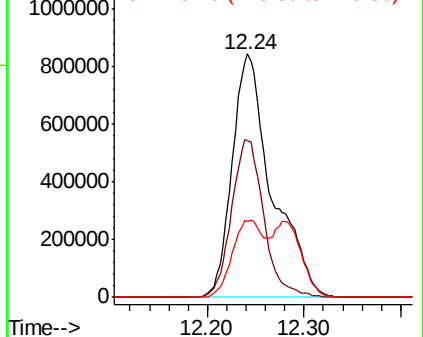
119 26.3 27.3 40.9#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 8.462 ppbv

RT: 12.28 min Scan# 2906

Delta R.T. -0.00 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

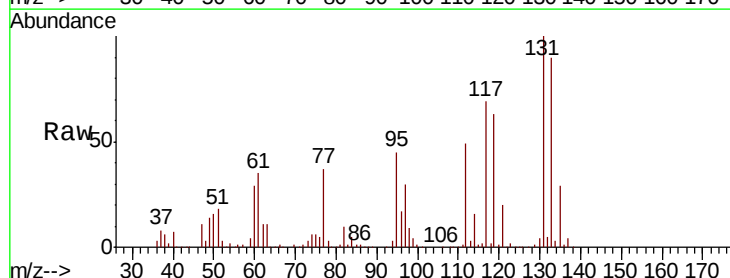
Tgt Ion:131 Resp: 913982

Ion Ratio Lower Upper

131 100

133 96.2 76.7 115.1

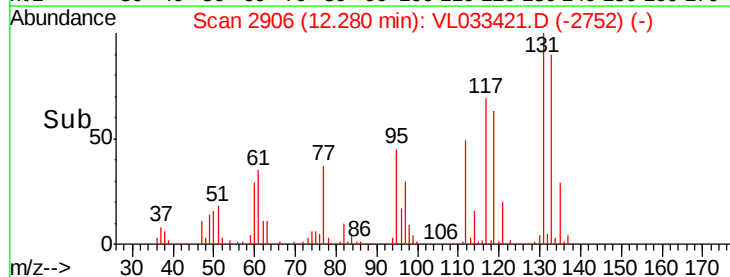
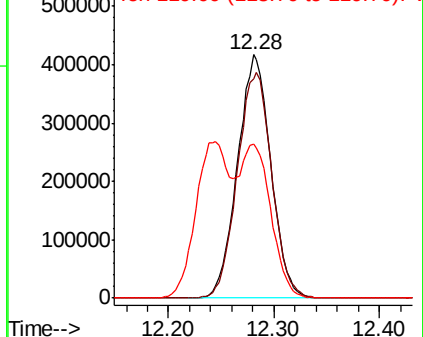
119 57.1 40.3 60.5

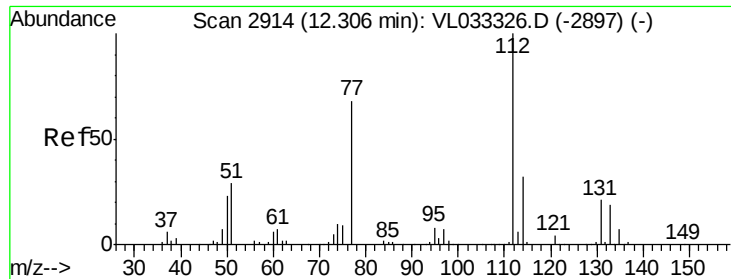


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

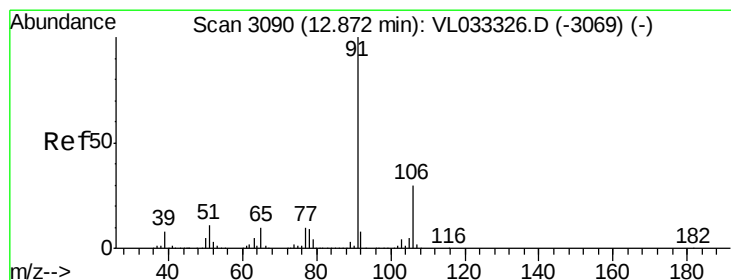
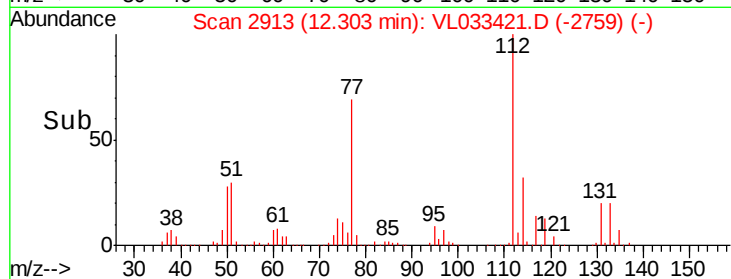
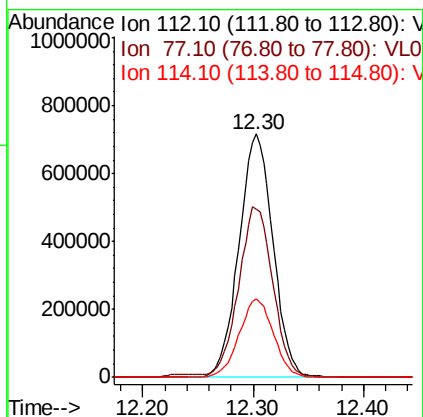
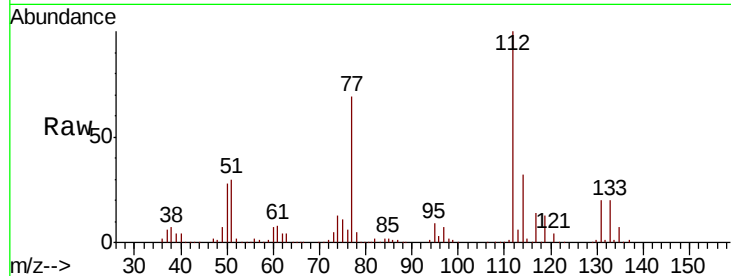




#57
Chlorobenzene
Concen: 8.007 ppbv
RT: 12.30 min Scan# 2913
Delta R.T. -0.00 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

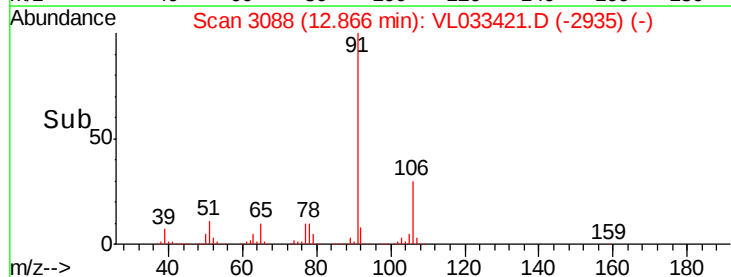
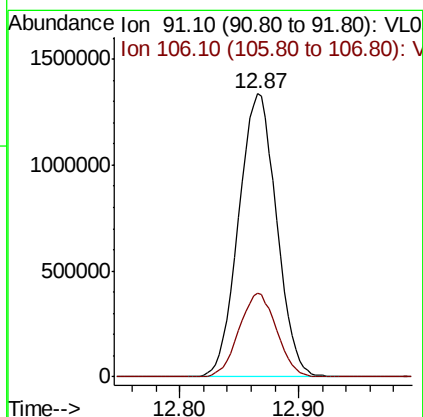
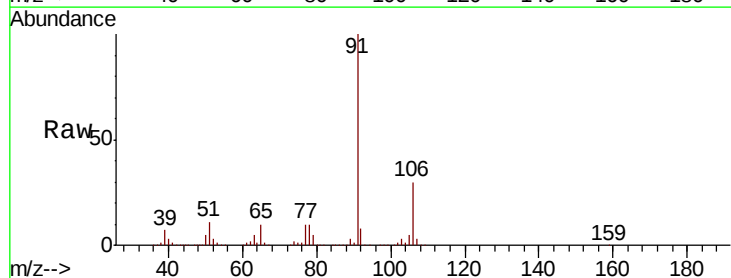
Instrument :
MSVOA_L
ClientSampled :

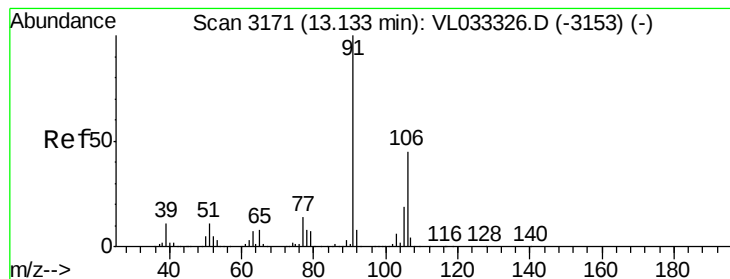
Tot Ion:112 Resp: 1531216
Ion Ratio Lower Upper
112 100
77 69.0 55.8 83.6
114 32.1 28.6 35.0



#58
Ethyl Benzene
Concen: 8.638 ppbv
RT: 12.87 min Scan# 3088
Delta R.T. -0.01 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Tgt Ion: 91 Resp: 2950673
Ion Ratio Lower Upper
91 100
106 29.8 24.2 36.2





#59

m/p-Xylene

Concen: 7.226 ppbv

RT: 13.13 min Scan# 3169

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

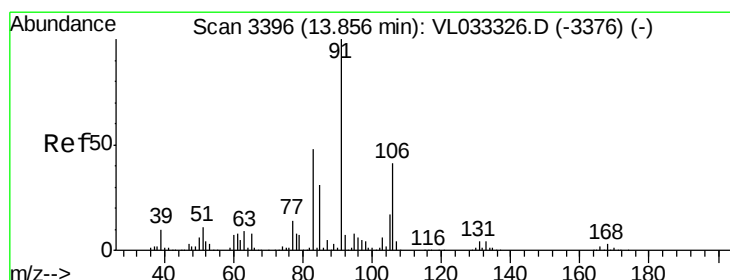
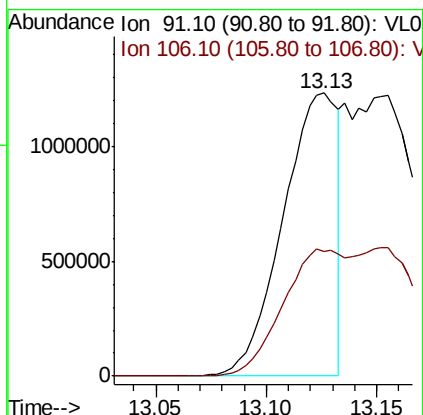
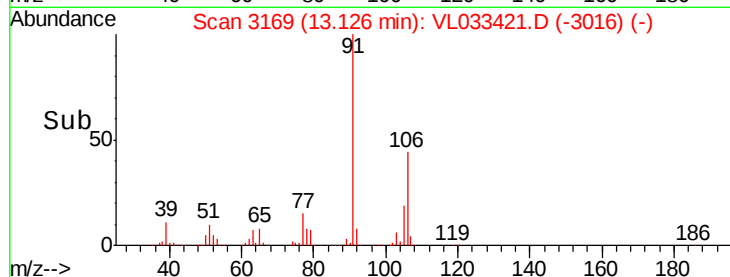
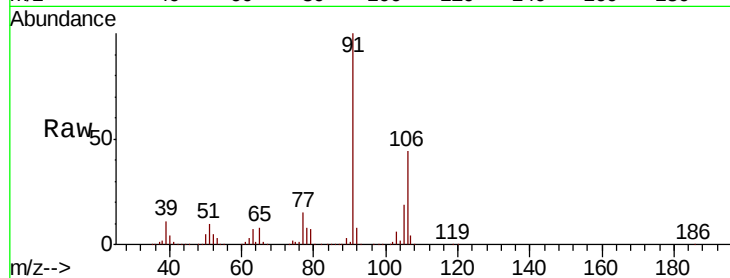
ClientSampled :

Tot Ion: 91 Resp: 2121320

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0



#60

o-Xylene

Concen: 8.497 ppbv

RT: 13.85 min Scan# 3395

Delta R.T. -0.00 min

Lab File: VL033421.D

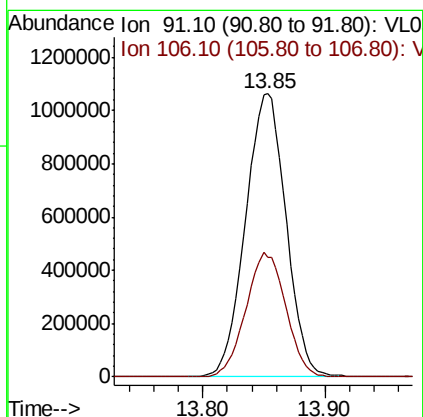
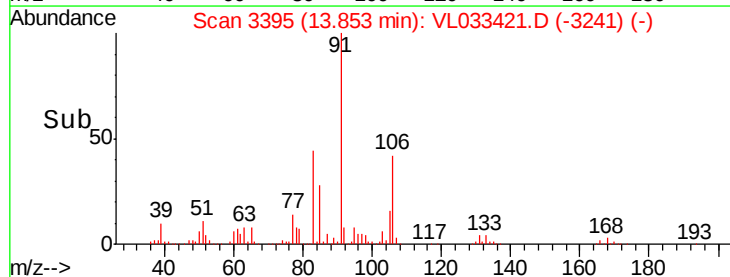
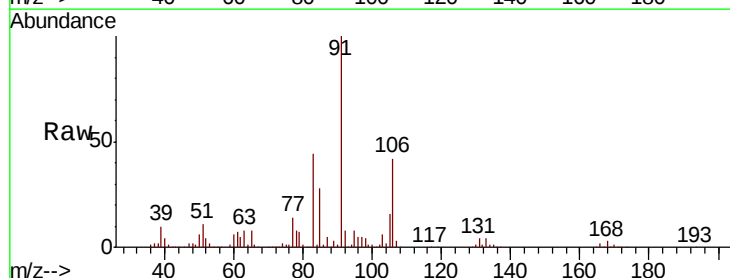
Acq: 21 Mar 2019 17:39

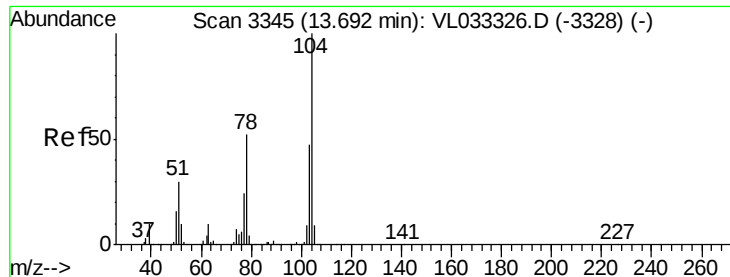
Tgt Ion: 91 Resp: 2433471

Ion Ratio Lower Upper

91 100

106 43.3 21.3 63.9

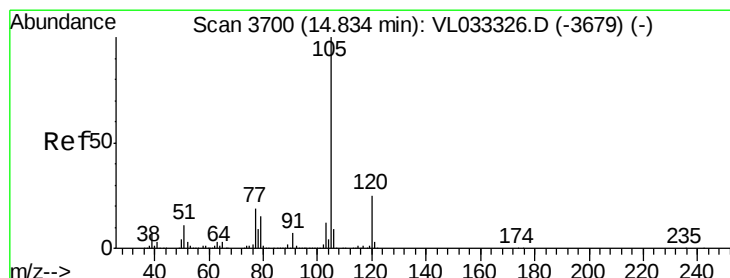
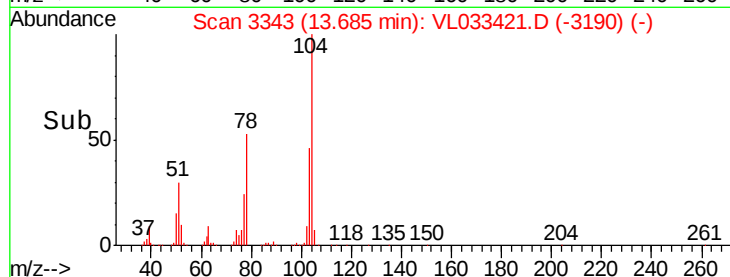
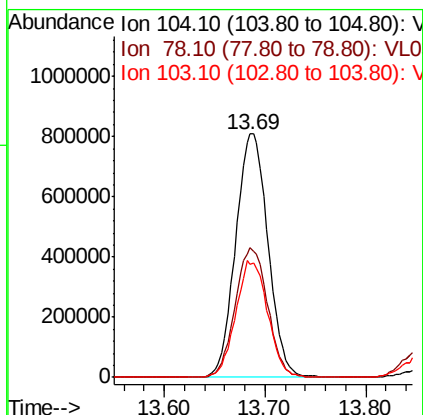
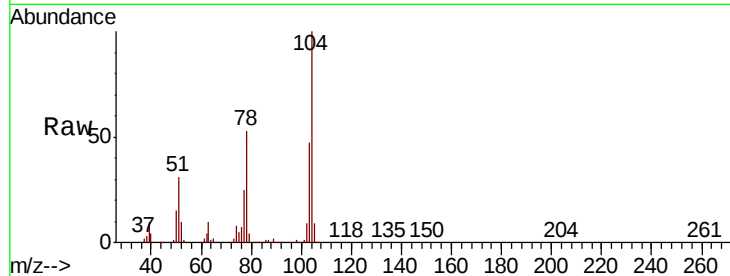




#61
Stvrene
Concen: 8.974 ppbv
RT: 13.69 min Scan# 3343
Delta R.T. -0.01 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

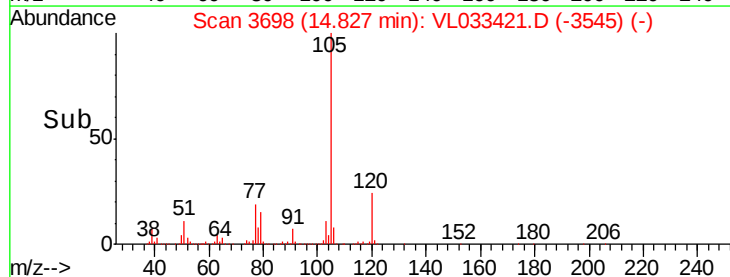
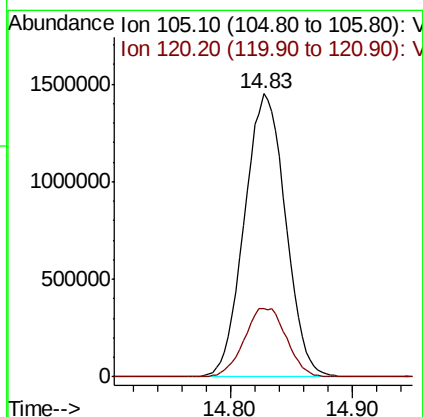
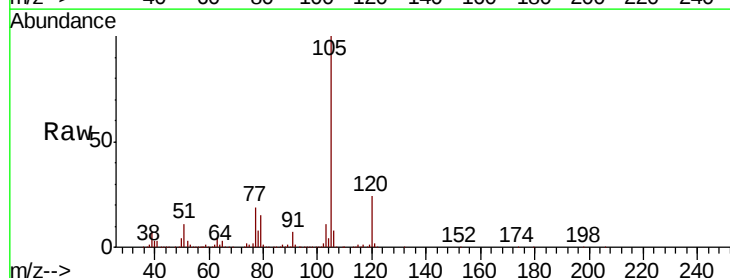
Instrument :
MSVOA_L
ClientSampled :

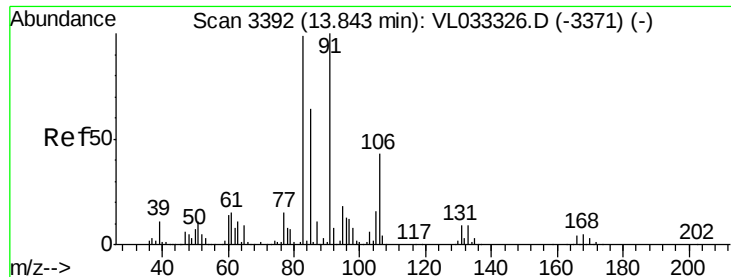
Tot Ion:104 Resp: 1799383
Ion Ratio Lower Upper
104 100
78 53.5 42.7 64.1
103 47.3 38.0 57.0



#62
Isopropylbenzene
Concen: 8.499 ppbv
RT: 14.83 min Scan# 3698
Delta R.T. -0.01 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Tgt Ion:105 Resp: 3383720
Ion Ratio Lower Upper
105 100
120 25.0 19.9 29.9

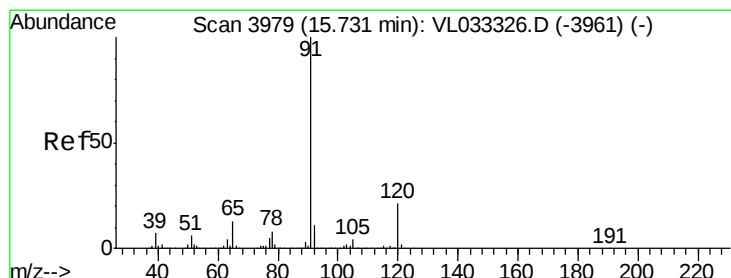
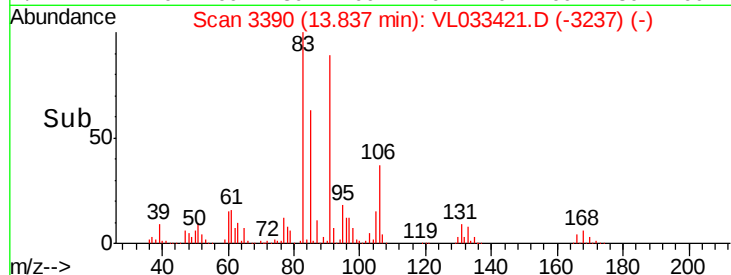
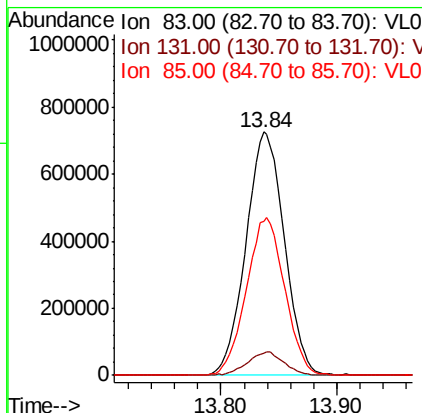
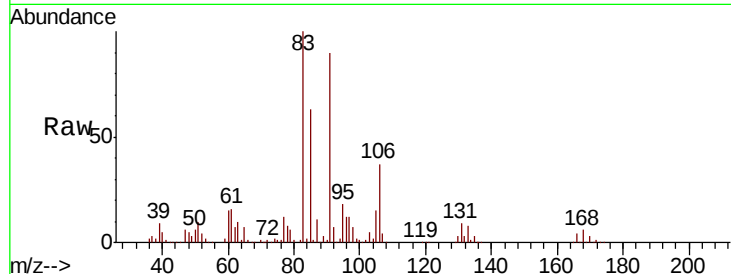




#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.086 ppbv
 RT: 13.84 min Scan# 3390
 Delta R.T. -0.01 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

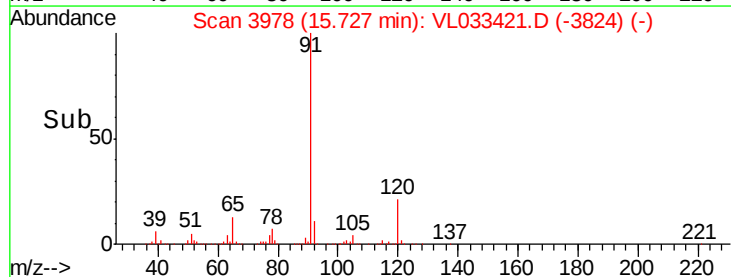
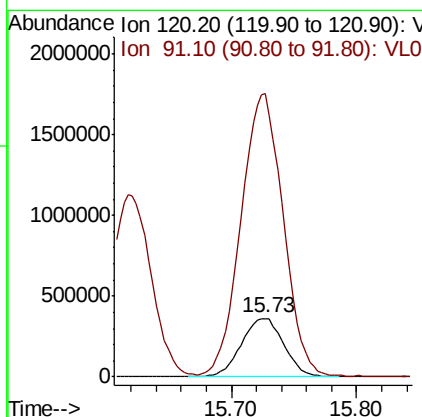
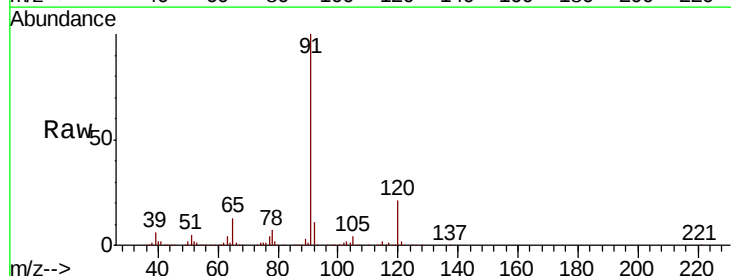
Instrument :
 MSVOA_L
 ClientSampled :

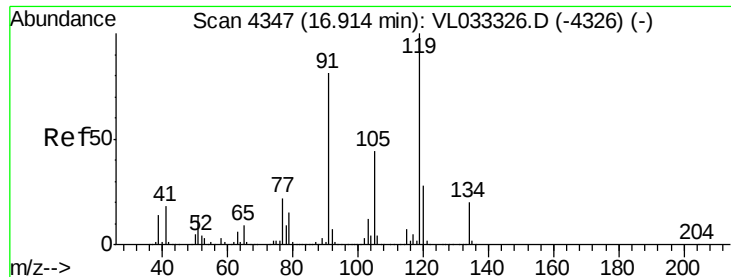
Tot Ion: 83 Resp: 1673936
 Ion Ratio Lower Upper
 83 100
 131 9.3 4.7 14.0
 85 64.7 32.5 97.4



#64
 n-propylbenzene
 Concen: 8.463 ppbv
 RT: 15.73 min Scan# 3978
 Delta R.T. -0.00 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

Tgt Ion:120 Resp: 852660
 Ion Ratio Lower Upper
 120 100
 91 484.0 389.8 584.6

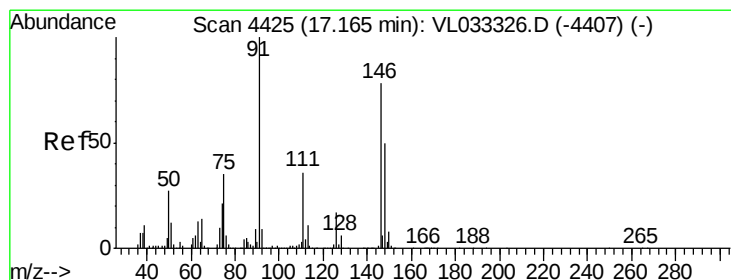
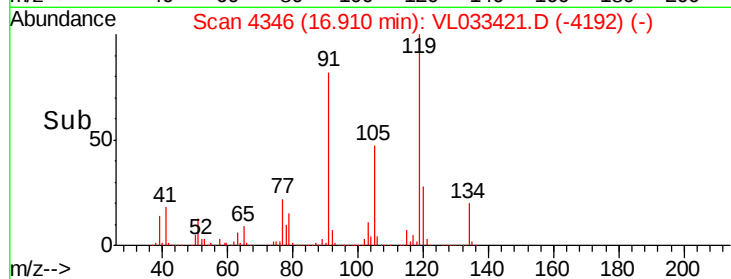
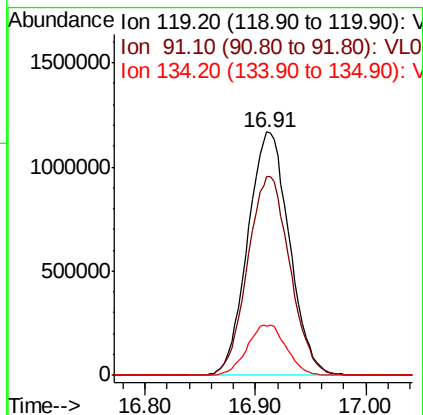
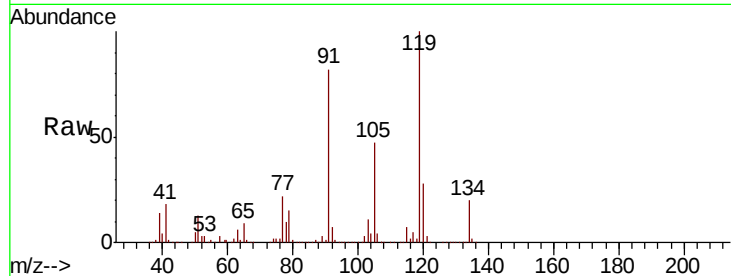




#65
tert-Butylbenzene
Concen: 8.509 ppbv
RT: 16.91 min Scan# 4346
Delta R.T. -0.00 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

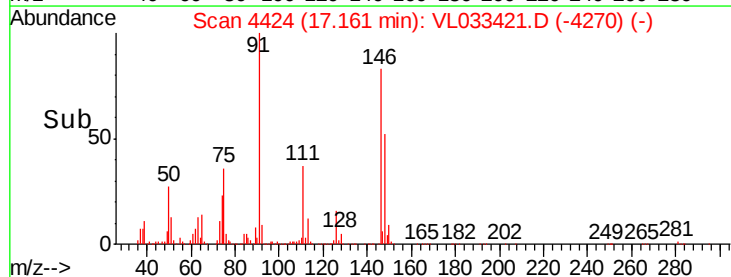
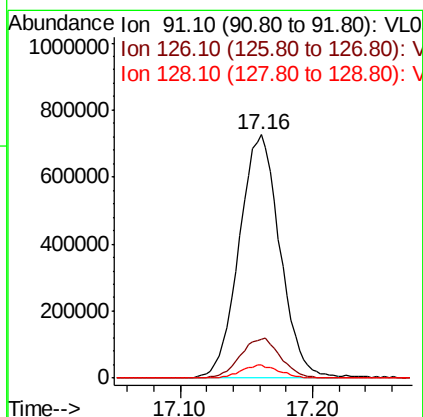
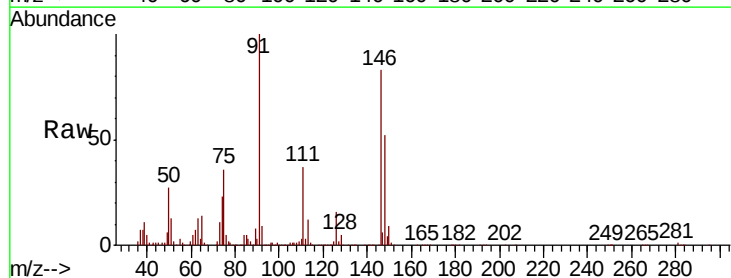
Instrument :
MSVOA_L
ClientSampleId :

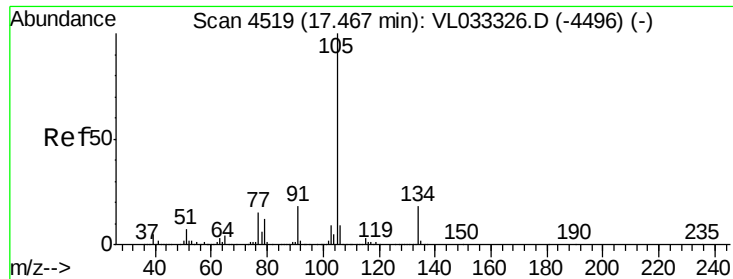
Tot Ion:119 Resp: 3050201
Ion Ratio Lower Upper
119 100
91 83.1 67.2 100.8
134 19.6 15.4 23.2



#66
Benzyl Chloride
Concen: 10.476 ppbv
RT: 17.16 min Scan# 4424
Delta R.T. -0.00 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Tgt Ion: 91 Resp: 1551753
Ion Ratio Lower Upper
91 100
126 16.2 13.2 19.8
128 5.1 4.2 6.4





#67

sec-Butylbenzene

Concen: 8.520 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

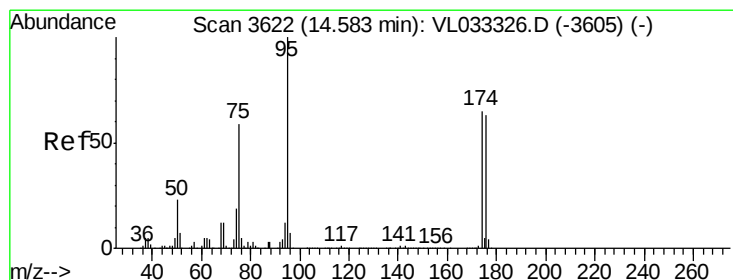
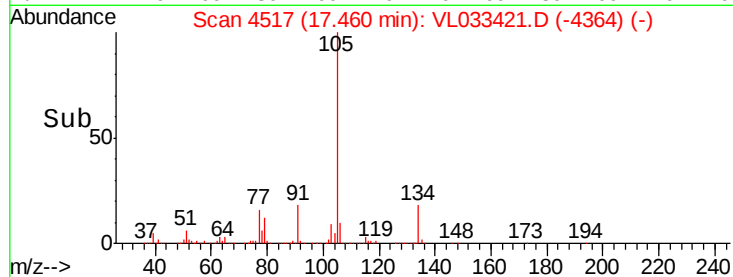
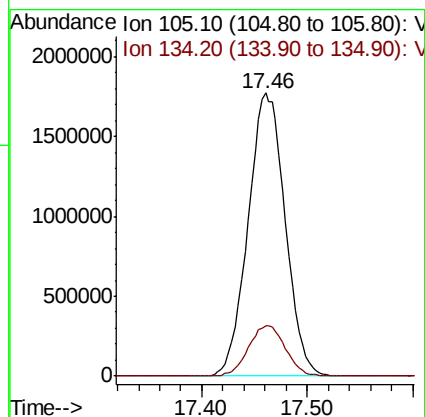
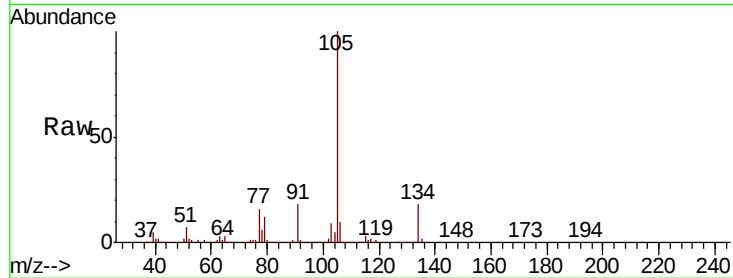
ClientSampleId :

Tot Ion:105 Resp: 4327361

Ion Ratio Lower Upper

105 100

134 17.9 14.2 21.4



#68

1-Bromo-4-Fluorobenzene

Concen: 8.424 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.00 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

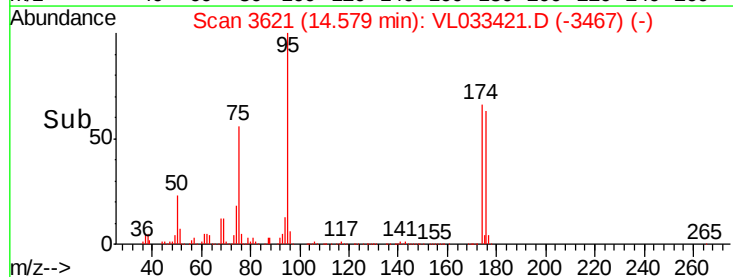
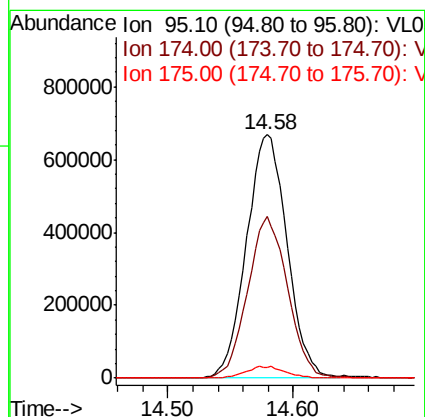
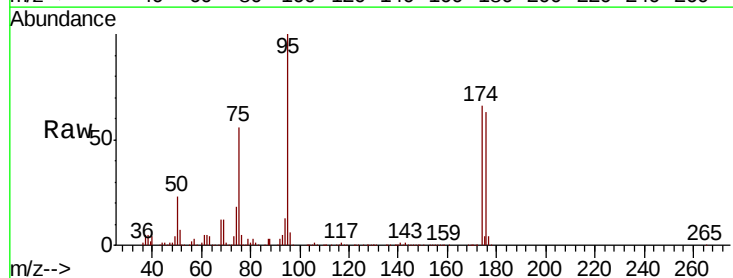
Tgt Ion: 95 Resp: 1507221

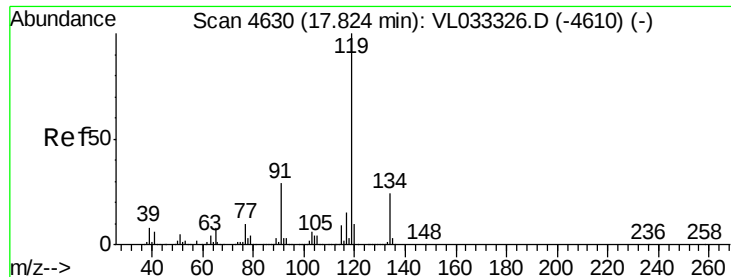
Ion Ratio Lower Upper

95 100

174 65.7 51.5 77.3

175 4.8 3.8 5.6

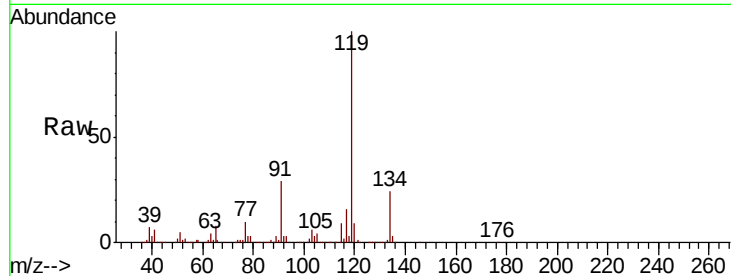




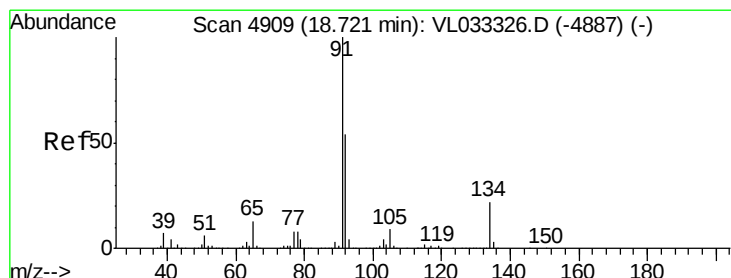
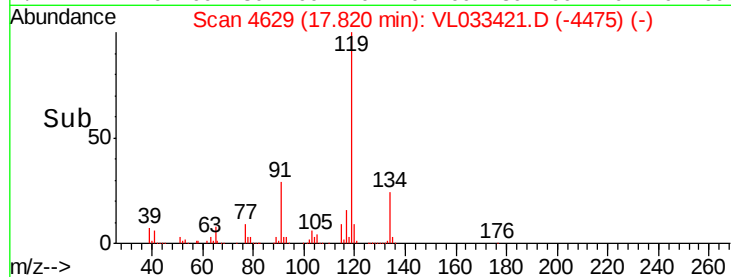
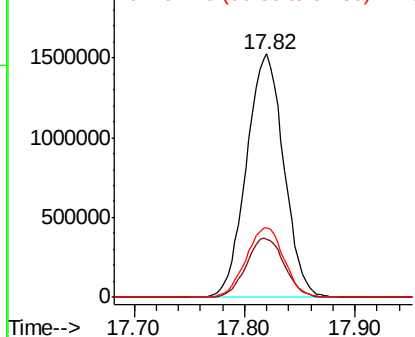
#69
 p-Isopropyltoluene
 Concen: 8.629 ppbv
 RT: 17.82 min Scan# 4629
 Delta R.T. -0.00 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion: 119 Resp: 3580843
 Ion Ratio Lower Upper
 119 100
 134 24.7 19.8 29.6
 91 29.3 23.4 35.2

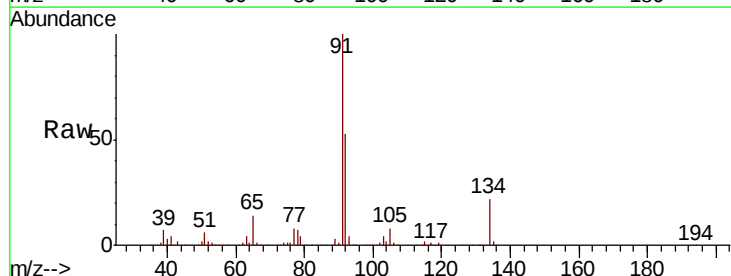


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

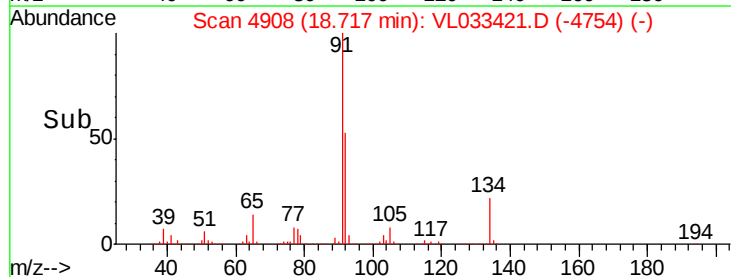
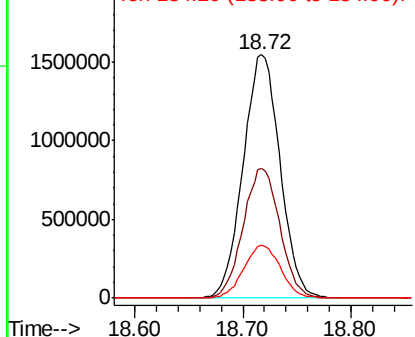


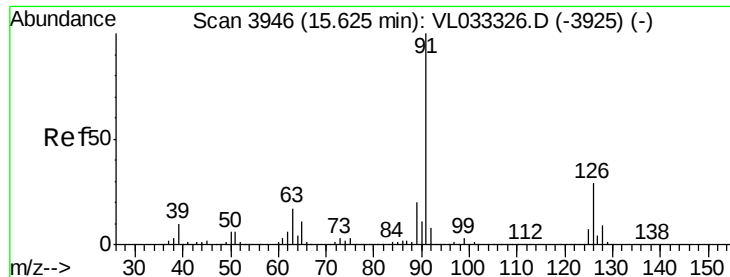
#70
 n-Butylbenzene
 Concen: 8.312 ppbv
 RT: 18.72 min Scan# 4908
 Delta R.T. -0.00 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

Tgt Ion: 91 Resp: 3677959
 Ion Ratio Lower Upper
 91 100
 92 53.1 42.8 64.2
 134 21.8 17.4 26.0



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





#71

2-Chlorotoluene

Concen: 8.418 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

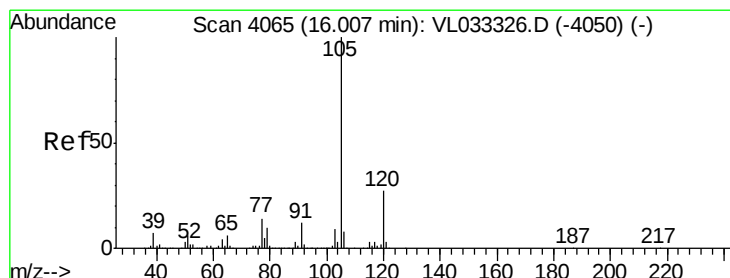
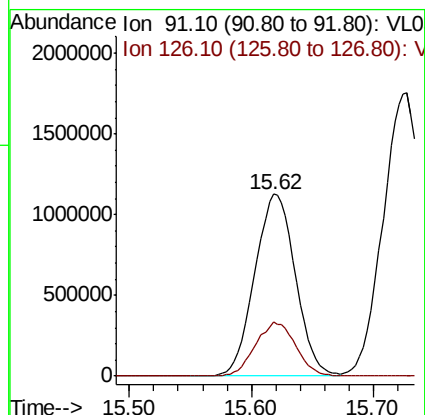
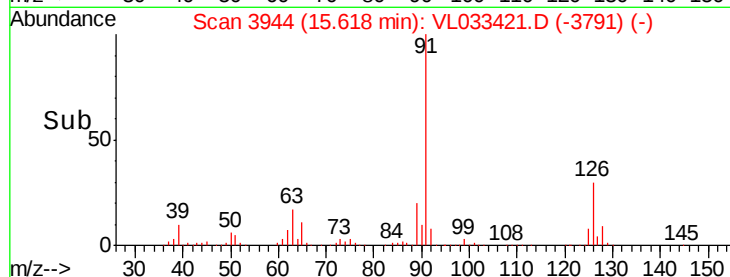
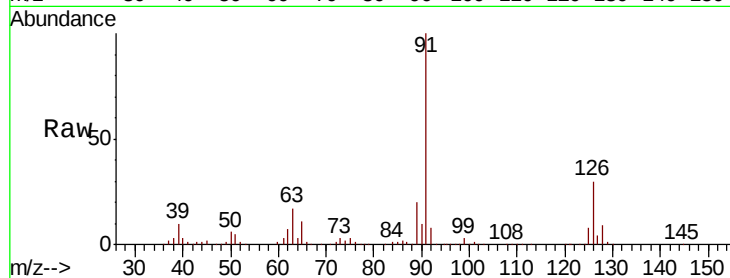
ClientSampleId :

Tot Ion: 91 Resp: 2608981

Ion Ratio Lower Upper

91 100

126 29.3 11.6 46.6



#72

4-Ethyltoluene

Concen: 8.562 ppbv

RT: 16.00 min Scan# 4064

Delta R.T. -0.00 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Tgt Ion:105 Resp: 2784636

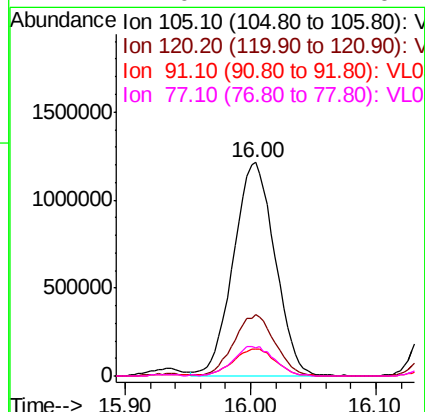
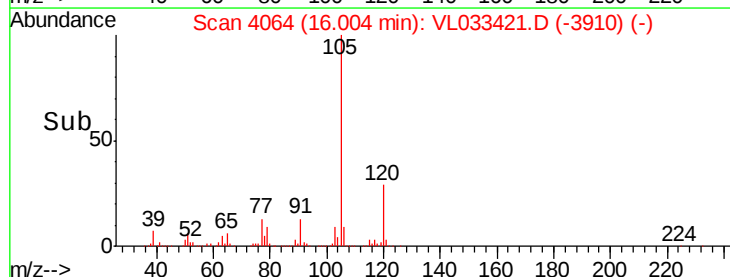
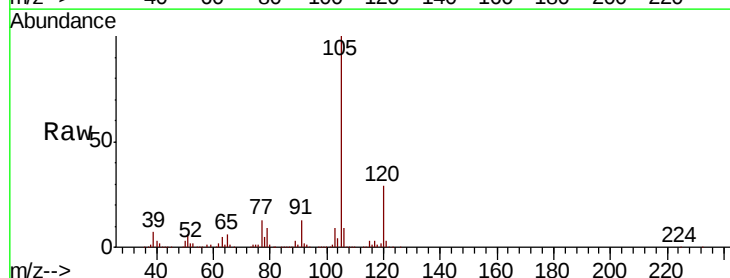
Ion Ratio Lower Upper

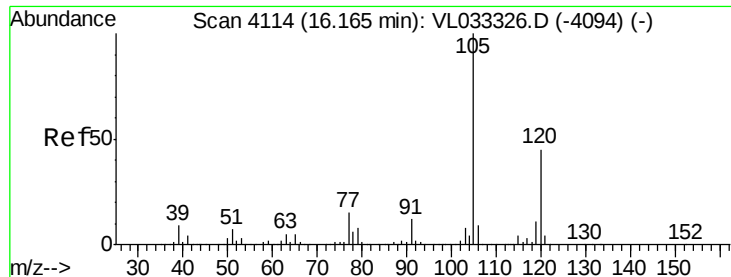
105 100

120 28.5 22.9 34.3

91 12.8 10.2 15.2

77 14.0 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 8.639 ppbv

RT: 16.16 min Scan# 4113

Delta R.T. -0.00 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

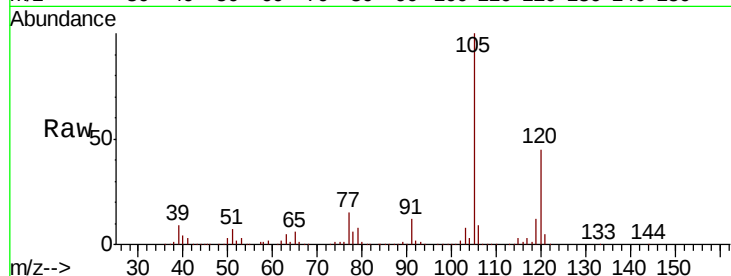
ClientSampleId :

Tot Ion:105 Resp: 2737108

Ion Ratio Lower Upper

105 100

120 44.9 36.2 54.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

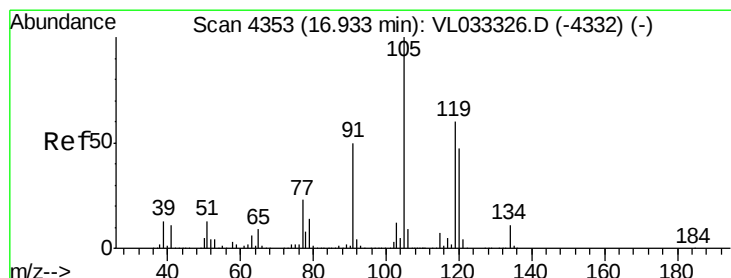
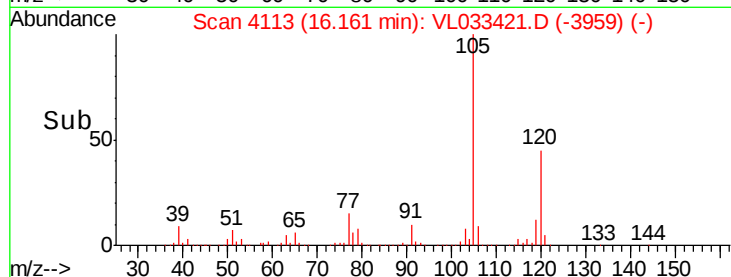
16.16

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 8.272 ppbv

RT: 16.93 min Scan# 4353

Delta R.T. -0.00 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Tgt Ion:105 Resp: 2775638

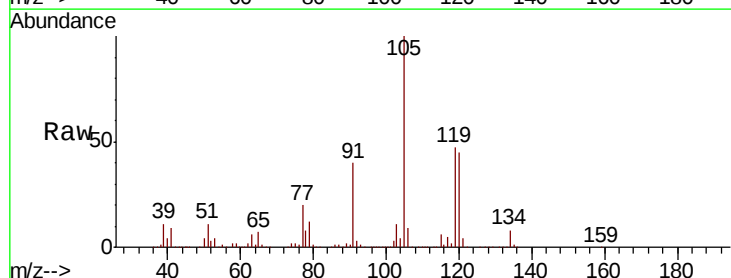
Ion Ratio Lower Upper

105 100

120 45.2 37.4 56.2

91 39.9 41.0 61.4#

77 19.9 18.5 27.7



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

16.93

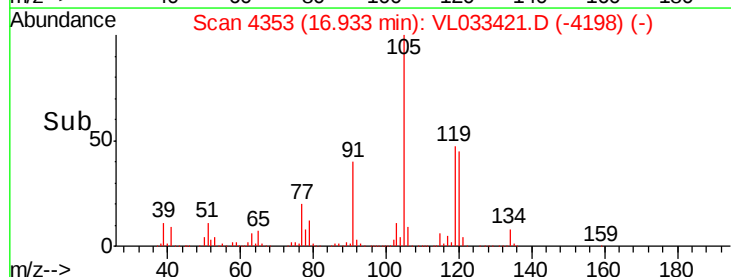
1500000

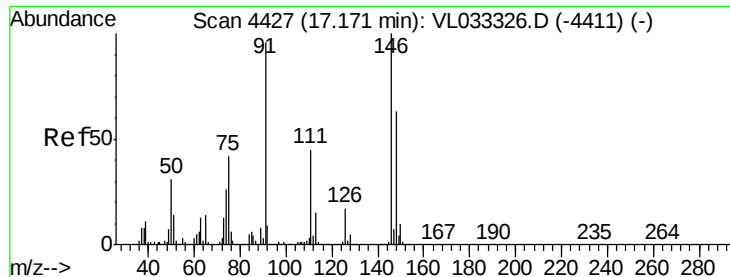
1000000

500000

0

Time-->





#75

1,3-Dichlorobenzene

Concen: 8.147 ppbv

RT: 17.17 min Scan# 4426

Delta R.T. -0.00 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

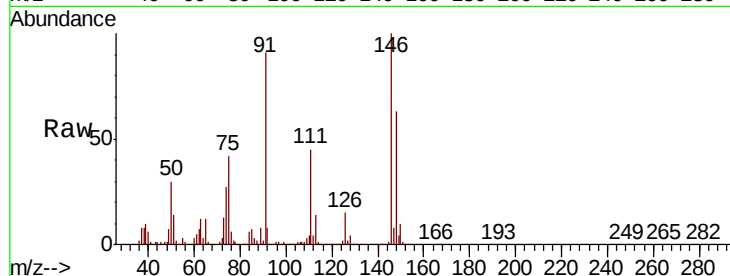
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:146 Resp: 1611281

Ion	Ratio	Lower	Upper
146	100		
111	45.2	22.8	68.3
148	63.5	31.9	95.7

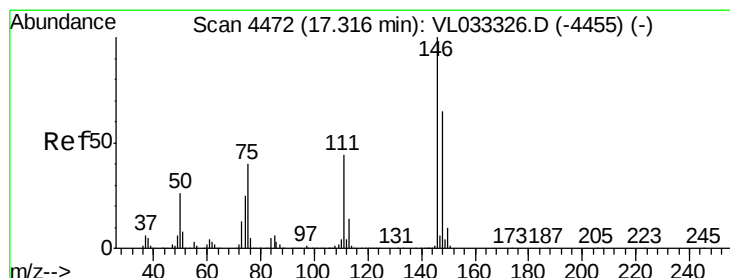
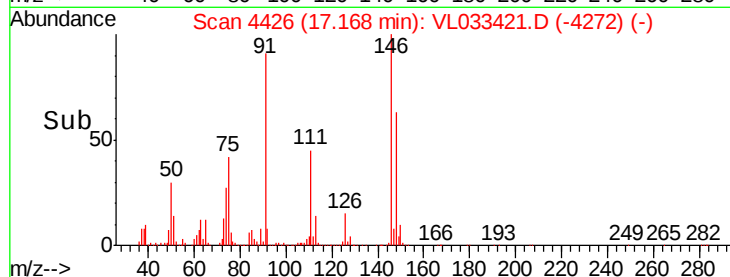
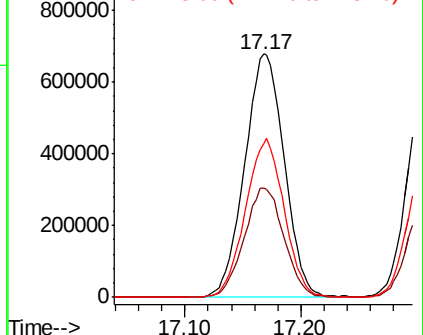


Abundance

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: 8.366 ppbv

RT: 17.31 min Scan# 4470

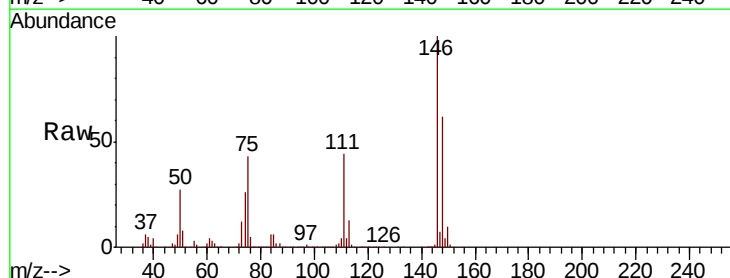
Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Tgt Ion:146 Resp: 1601854

Ion	Ratio	Lower	Upper
146	100		
111	44.3	21.9	65.7
148	63.7	32.1	96.5

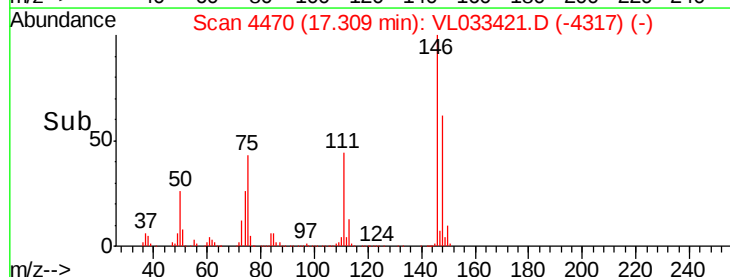
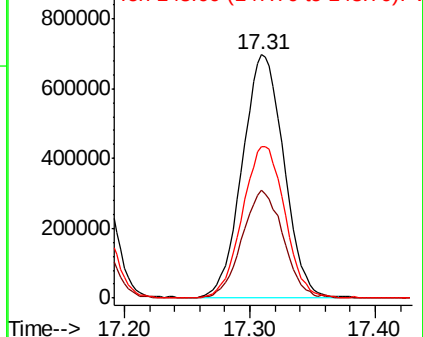


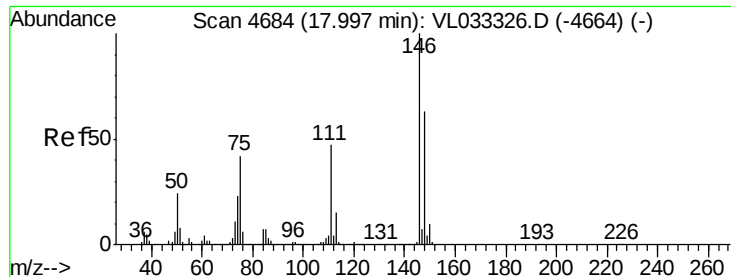
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 8.328 ppbv

RT: 17.99 min Scan# 4681

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

ClientSampled :

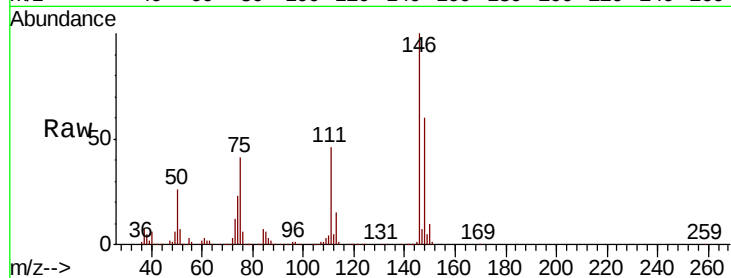
Tot Ion:146 Resp: 1559811

Ion Ratio Lower Upper

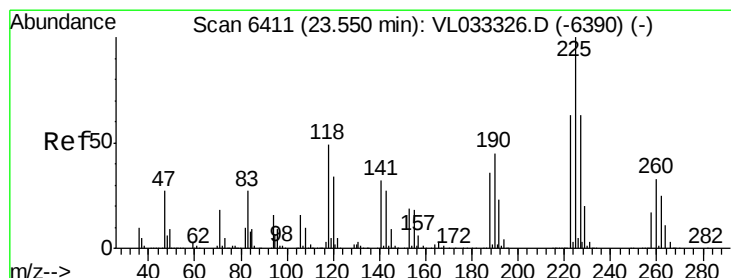
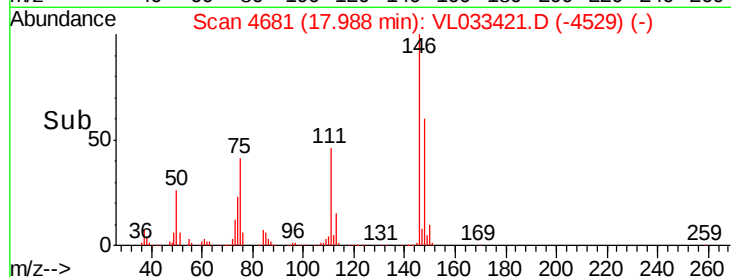
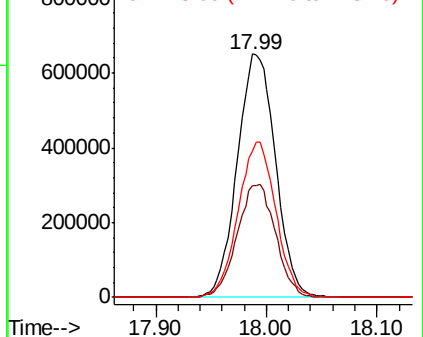
146 100

111 46.7 23.5 70.6

148 62.9 31.9 95.9



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: 9.850 ppbv

RT: 23.55 min Scan# 6411

Delta R.T. -0.00 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

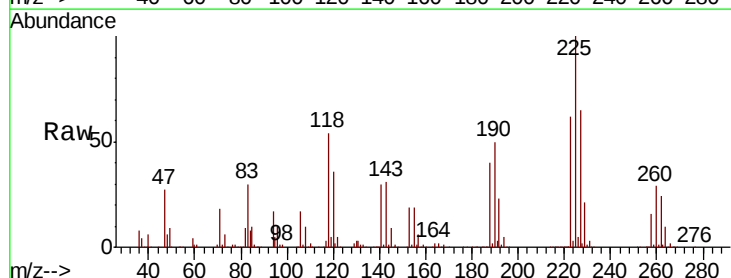
Tgt Ion:225 Resp: 1106150

Ion Ratio Lower Upper

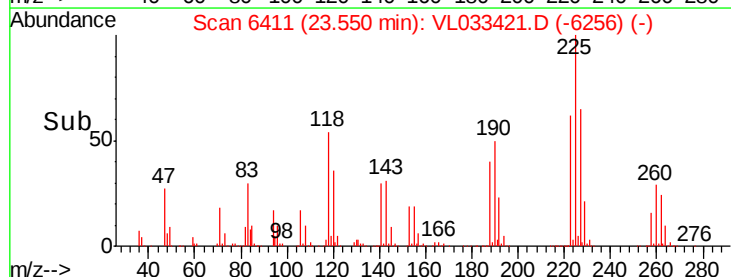
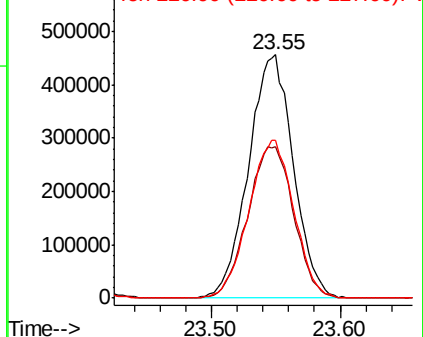
225 100

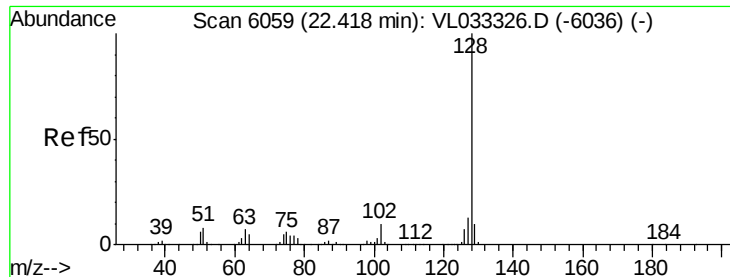
223 63.9 50.4 75.6

227 65.1 50.5 75.7



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: 7.675 ppbv

RT: 22.41 min Scan# 6058

Delta R.T. -0.00 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

ClientSampleId :

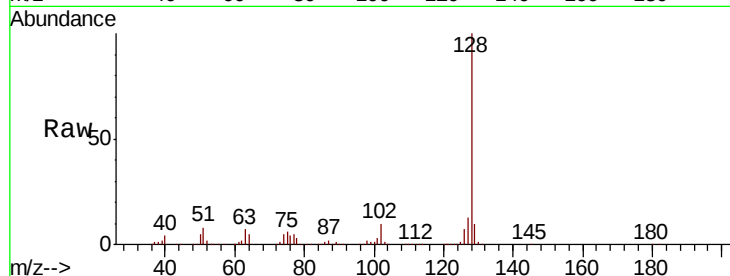
Tot Ion:128 Resp: 2481863

Ion Ratio Lower Upper

128 100

127 12.5 10.1 15.1

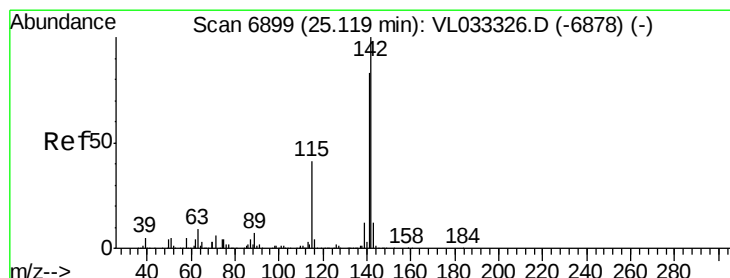
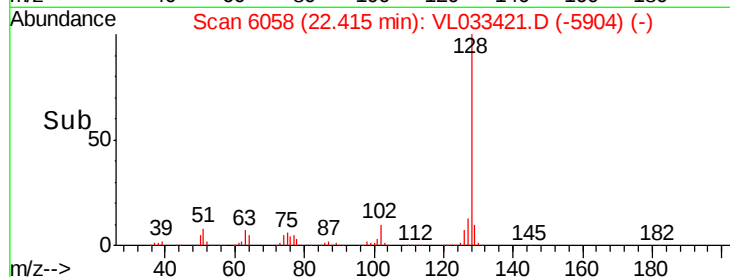
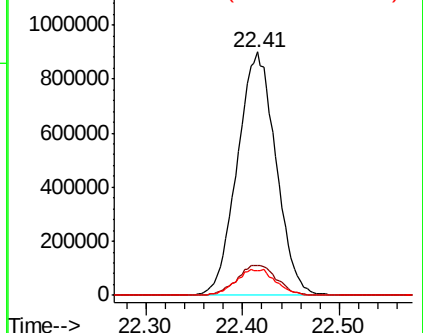
129 10.1 8.2 12.2



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 6.799 ppbv

RT: 25.12 min Scan# 6898

Delta R.T. -0.00 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

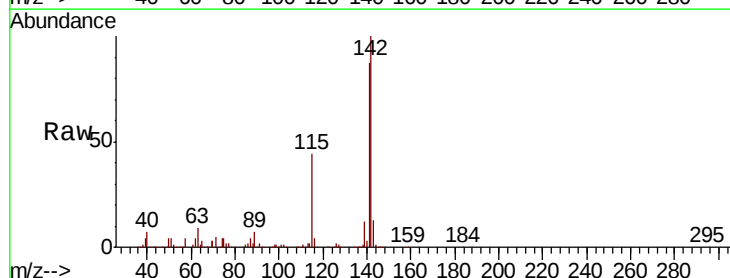
Tgt Ion:142 Resp: 1042402

Ion Ratio Lower Upper

142 100

141 83.9 67.1 100.7

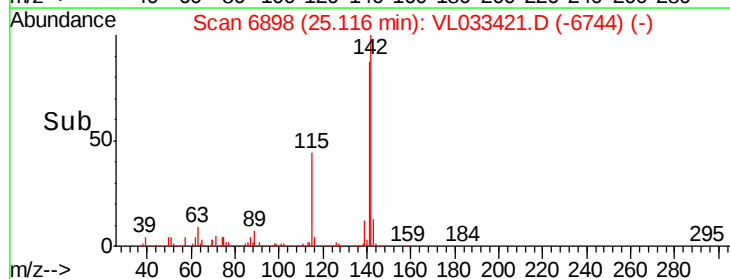
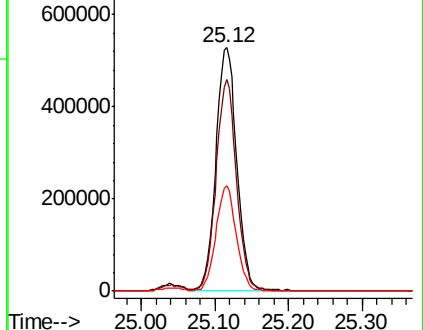
115 42.3 33.8 50.6

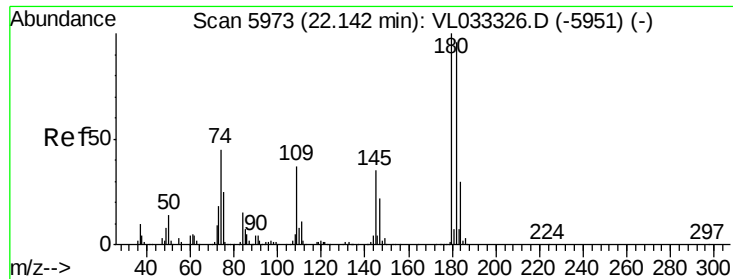


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 7.811 ppbv
 RT: 22.14 min Scan# 5972
 Delta R.T. -0.00 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:180 Resp: 1287964
 Ion Ratio Lower Upper
 180 100
 182 96.3 76.1 114.1
 184 30.8 24.6 37.0

