

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052019\
 Data File : VL033721.D
 Acq On : 20 May 2019 11:21
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Quant Time: May 21 01:40:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 08:15:41 2019
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	942024	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2397094	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2553360m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1980032	9.57	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.07	85	1389734m	7.000	ppbv
3) Chlorodifluoromethane	3.01	51	1196525	11.089	ppbv 100
4) Chloromethane	3.17	50	641569	10.395	ppbv 99
5) Vinyl Chloride	3.29	62	642334	10.217	ppbv 99
6) Bromomethane	3.51	94	391646	10.210	ppbv 99
7) Chloroethane	3.60	64	225724	10.103	ppbv 96
8) Dichlorotetrafluoroethane	3.22	85	1613638	10.082	ppbv 100
9) Propene	3.03	41	515633	11.235	ppbv 99
10) Heptane	8.25	43	1203084	9.257	ppbv 100
11) Trichlorofluoromethane	4.00	101	1777700	9.382	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1168857	8.834	ppbv 100
13) Ethanol	3.65	45	132343	8.921	ppbv 98
14) Bromoethene	3.79	108	508495	10.454	ppbv 98
15) Acetone	3.90	43	1160134	8.876	ppbv 100
16) 1,3-Butadiene	3.36	39	541085	10.396	ppbv 99
17) tert-Butyl alcohol	4.35	59	1113463	10.535	ppbv 100
18) 1,1-Dichloroethene	4.35	96	540999	9.687	ppbv 100
19) Isopropyl Alcohol	4.02	45	817433	9.700	ppbv 100
20) Methylene Chloride	4.41	84	461566	9.172	ppbv 98
21) Allyl Chloride	4.47	41	774548	9.501	ppbv 99
22) trans-1,2-Dichloroethene	4.96	96	530793	9.272	ppbv 88
23) Vinyl Acetate	5.15	43	1755843	10.189	ppbv 98
24) 1,1-Dichloroethane	5.09	63	1200766	9.166	ppbv 99
25) Ethyl Acetate	5.77	43	2035257	8.864	ppbv 99
26) Hexane	5.78	57	895085	9.068	ppbv 99
27) Carbon Disulfide	4.62	76	1303311	9.624	ppbv 99
28) Methyl tert-Butyl Ether	5.11	73	1620181	10.069	ppbv 100
29) Chloroform	5.85	83	1521751	8.370	ppbv 100
30) Cyclohexane	7.24	84	828226	9.981	ppbv 98
31) cis-1,2-Dichloroethene	5.64	61	948206	9.689	ppbv 96
32) 1,1,1-Trichloroethane	6.62	97	1558859	8.587	ppbv 99
34) 2-Butanone	5.33	43	1380947	9.294	ppbv 100
35) Carbon Tetrachloride	7.13	117	1732896	9.025	ppbv 100
36) Benzene	7.01	78	1977064	9.067	ppbv 99
37) 1,2-Dichloroethane	6.41	62	1149957	8.176	ppbv 99
38) Trichloroethene	7.96	130	799478	9.881	ppbv 97
39) 1,2-Dichloropropane	7.73	63	764307	9.402	ppbv 97
40) 1,4-Dioxane	7.95	88	289445	8.511	ppbv # 98
41) Tetrahydrofuran	6.15	42	760226	9.132	ppbv 99
42) Bromodichloromethane	7.92	83	1746320	9.069	ppbv 98
43) Methyl Methacrylate	8.14	69	796348	9.924	ppbv 99

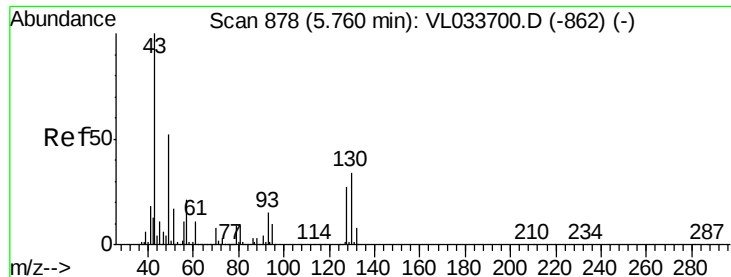
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052019\
 Data File : VL033721.D
 Acq On : 20 May 2019 11:21
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3250311	8.820	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1113226	10.943	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	1222585	10.263	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	826431	8.948	ppbv	98
48) Dibromochloromethane	10.45	129	1508441	9.426	ppbv	100
49) Bromoform	13.20	173	1353730	10.054	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2072087	9.067	ppbv	99
51) 2-Hexanone	10.27	43	1752072	9.823	ppbv	100
52) Tetrachloroethene	11.37	164	761883	9.940	ppbv	98
53) Toluene	9.95	91	2332469	9.917	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1340109	9.508	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1020966	8.641	ppbv	99
57) Chlorobenzene	12.30	112	1794070	8.536	ppbv	97
58) Ethyl Benzene	12.87	91	3248279	9.607	ppbv	99
59) m/p-Xylene	13.15	91	5325508m	18.017	ppbv	
60) o-Xylene	13.85	91	2675763	8.980	ppbv	99
61) Styrene	13.69	104	2062859	10.283	ppbv	99
62) Isopropylbenzene	14.82	105	3666174	9.137	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1826374	8.429	ppbv	100
64) n-propylbenzene	15.72	120	1057470	10.188	ppbv	100
65) tert-Butylbenzene	16.91	119	3690097	10.072	ppbv	100
66) Benzyl Chloride	17.15	91	2189758	12.549	ppbv	100
67) sec-Butylbenzene	17.46	105	5189840	10.121	ppbv	100
69) p-Isopropyltoluene	17.81	119	4342807	10.247	ppbv	100
70) n-Butylbenzene	18.71	91	4517179	9.939	ppbv	100
71) 2-Chlorotoluene	15.62	91	2788973	9.368	ppbv	100
72) 4-Ethyltoluene	16.00	105	3553294	10.430	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	3350999	10.081	ppbv	98
74) 1,2,4-Trimethylbenzene	16.93	105	3518304	9.726	ppbv	99
75) 1,3-Dichlorobenzene	17.16	146	2071726	9.346	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	2067467	9.813	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1989983	9.554	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1511742	9.599	ppbv	99
79) Naphthalene	22.41	128	3164599	9.418	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1274271	9.981	ppbv	99
81) 1,2,4-Trichlorobenzene	22.13	180	1731585	8.801	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. 0.00 min

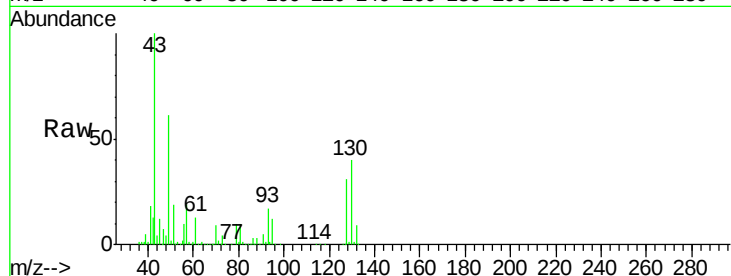
Lab File: VL033721.D

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Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 49 Resp: 942024

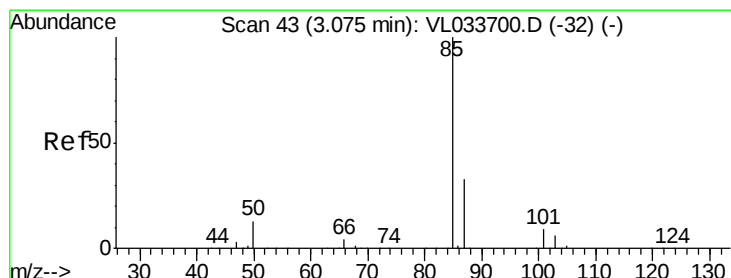
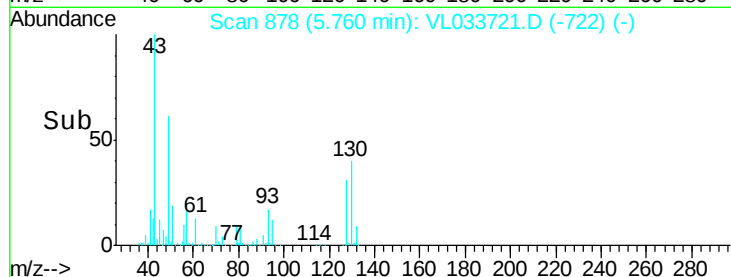
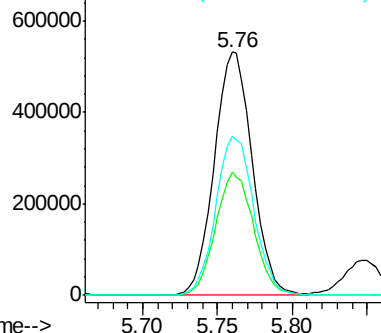
Ion	Ratio	Lower	Upper
49	100		
128	50.9	25.2	75.6
130	65.6	32.5	97.5



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: 7.000 ppbv m

RT: 3.07 min Scan# 43

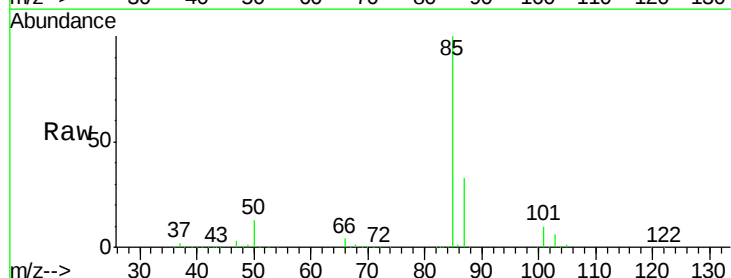
Delta R.T. -0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

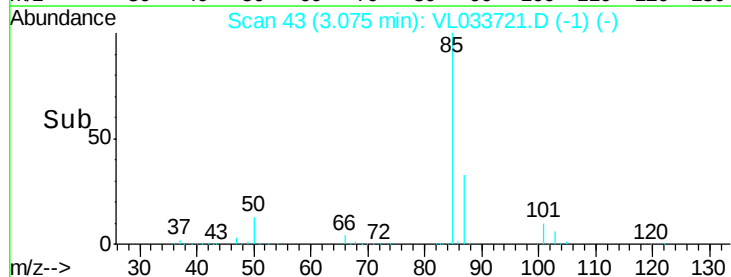
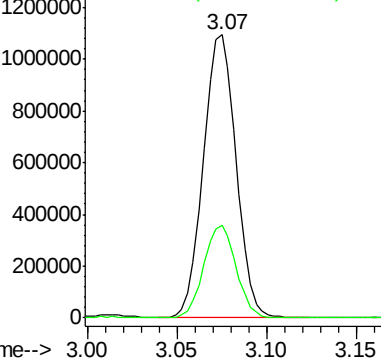
Tgt Ion: 85 Resp: 1389734

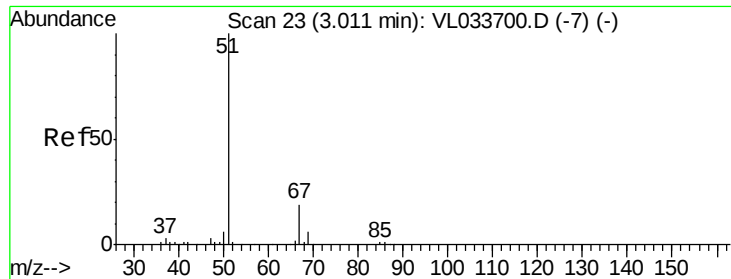
Ion	Ratio	Lower	Upper
85	100		
87	32.5	26.3	39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

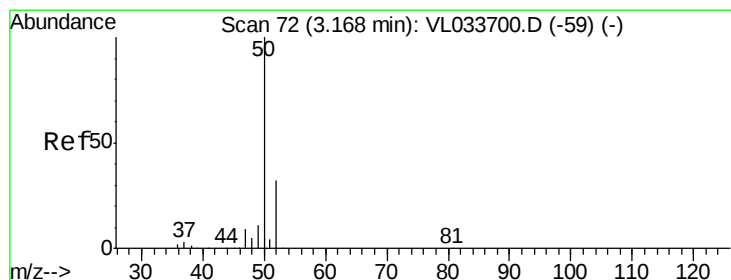
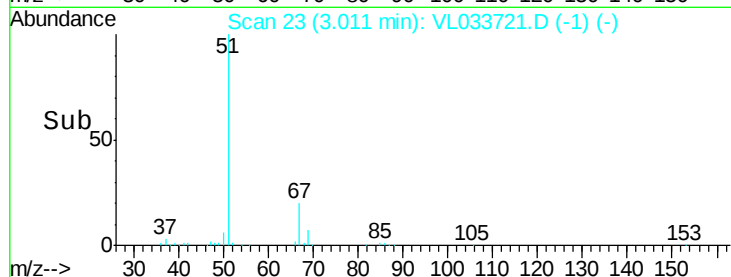
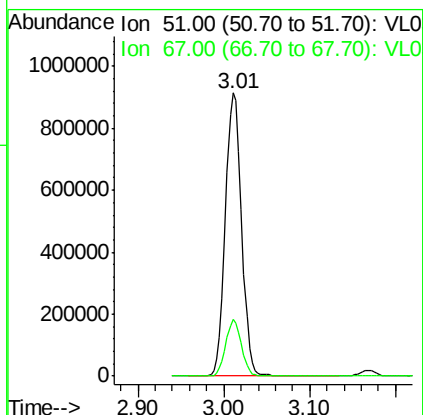
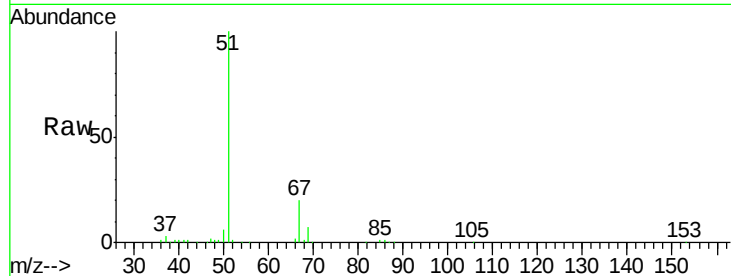




#3
 Chlorodifluoromethane
 Concen: 11.089 ppbv
 RT: 3.01 min Scan# 23
 Delta R.T. 0.00 min
 Lab File: VL033721.D
 Acq: 20 May 2019 11:21

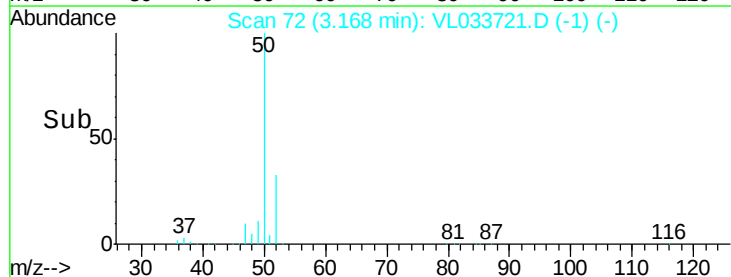
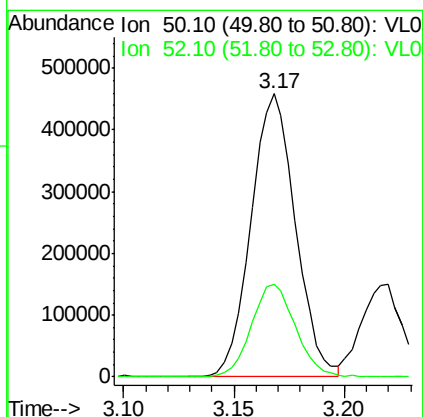
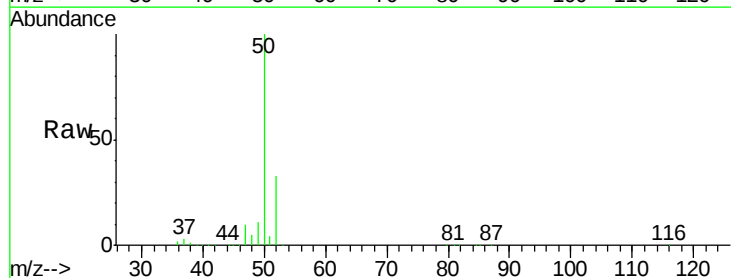
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

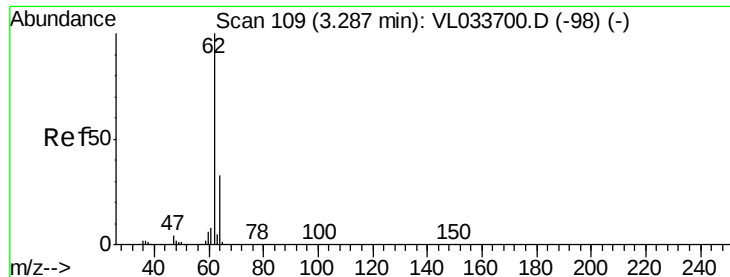
Tot Ion: 51 Resp: 1196525
 Ion Ratio Lower Upper
 51 100
 67 19.5 15.6 23.4



#4
 Chloromethane
 Concen: 10.395 ppbv
 RT: 3.17 min Scan# 72
 Delta R.T. 0.00 min
 Lab File: VL033721.D
 Acq: 20 May 2019 11:21

Tgt Ion: 50 Resp: 641569
 Ion Ratio Lower Upper
 50 100
 52 32.6 25.7 38.5





#5

Vinyl Chloride

Concen: 10.217 ppbv

RT: 3.29 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

Instrument :

MSVOA_L

ClientSampleId :

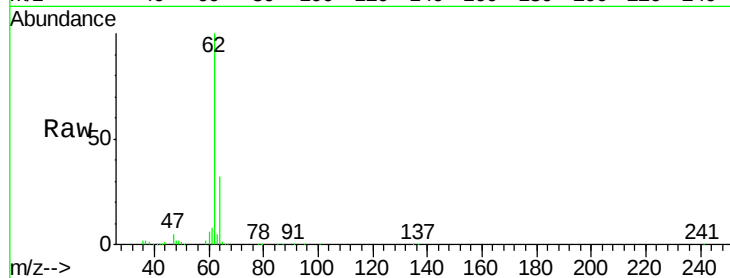
VSTDCCC010

Tot Ion: 62 Resp: 642334

Ion Ratio Lower Upper

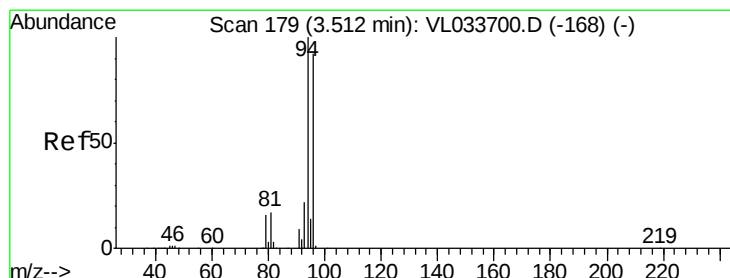
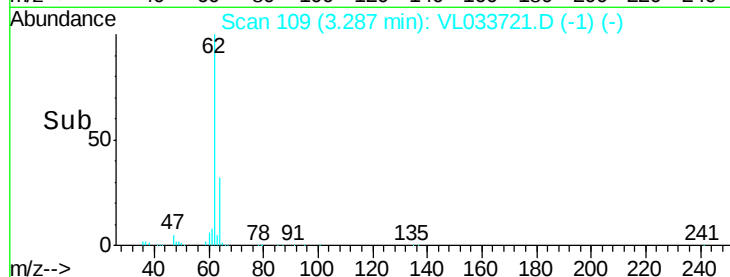
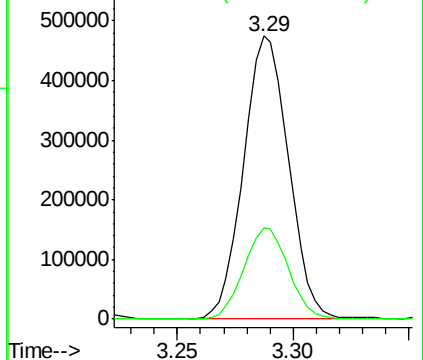
62 100

64 32.2 26.4 39.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.210 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033721.D

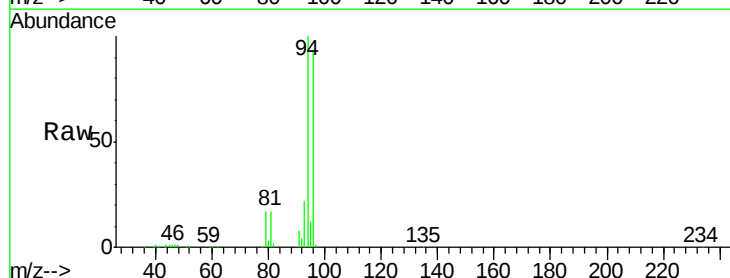
Acq: 20 May 2019 11:21

Tgt Ion: 94 Resp: 391646

Ion Ratio Lower Upper

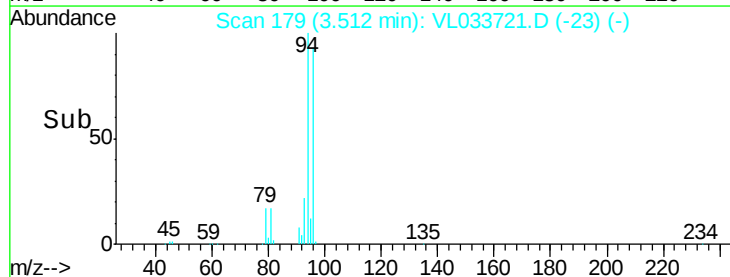
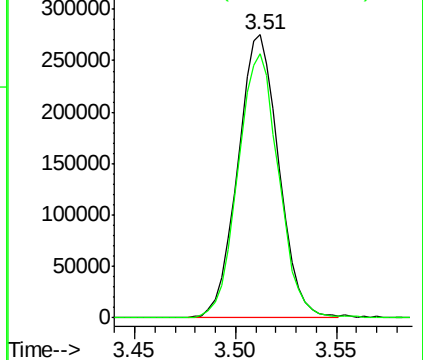
94 100

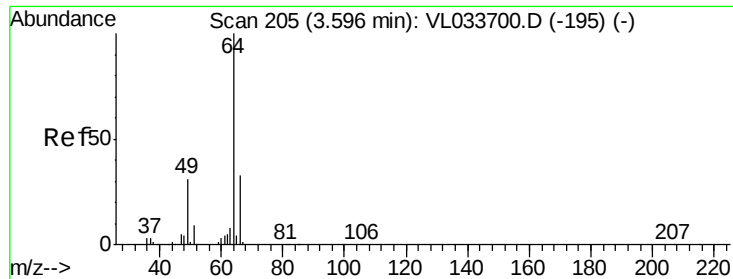
96 93.3 73.6 110.4



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.103 ppbv

RT: 3.60 min Scan# 206

Delta R.T. 0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

Instrument :

MSVOA_L

ClientSampleId :

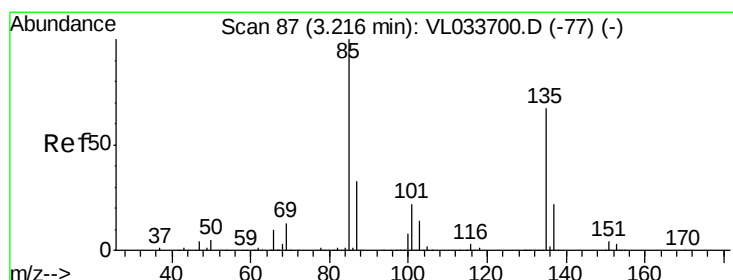
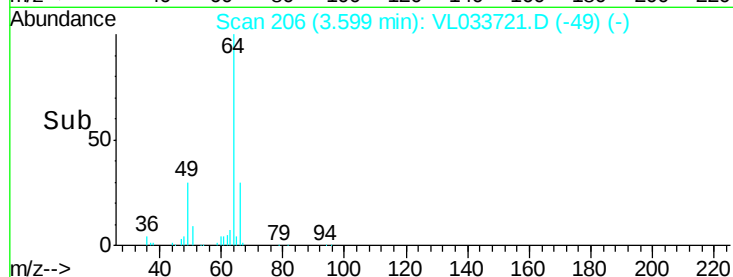
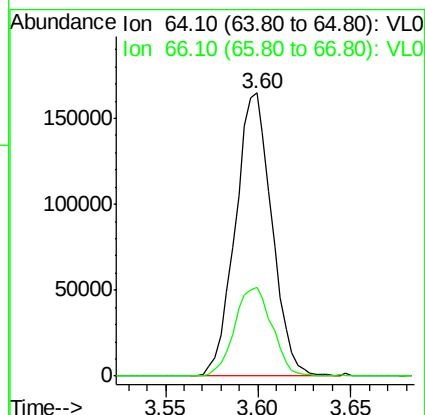
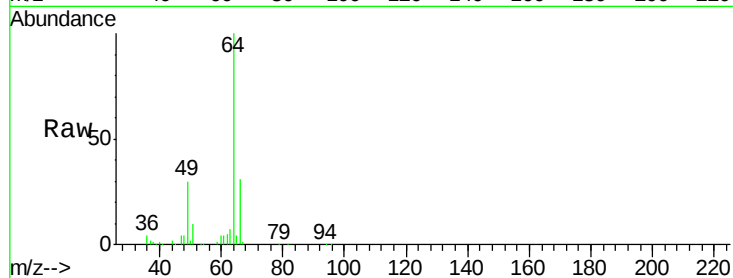
VSTDCCC010

Tot Ion: 64 Resp: 225724

Ion Ratio Lower Upper

64 100

66 31.3 26.6 40.0



#8

Dichlorotetrafluoroethane

Concen: 10.082 ppbv

RT: 3.22 min Scan# 87

Delta R.T. -0.00 min

Lab File: VL033721.D

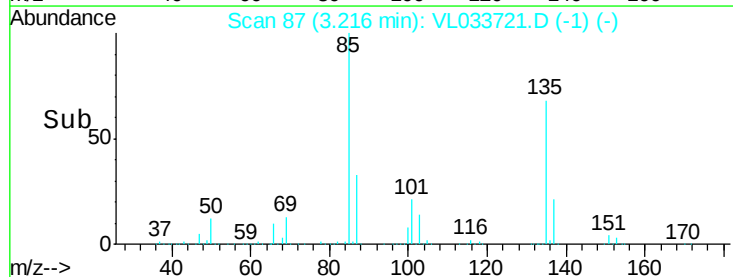
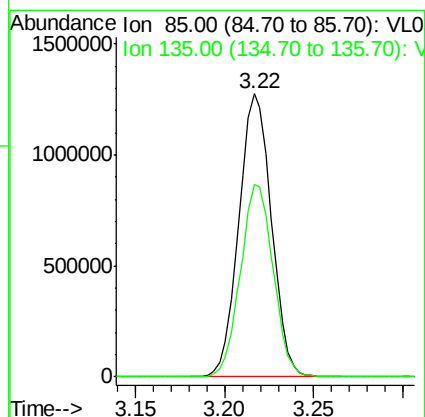
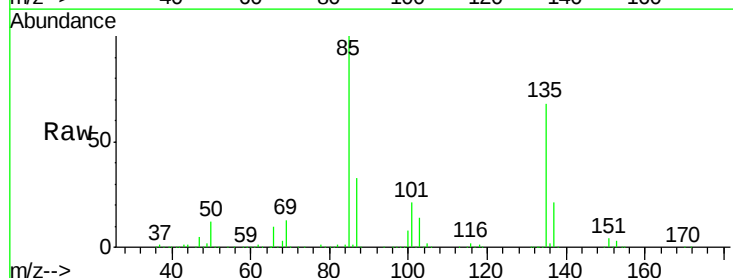
Acq: 20 May 2019 11:21

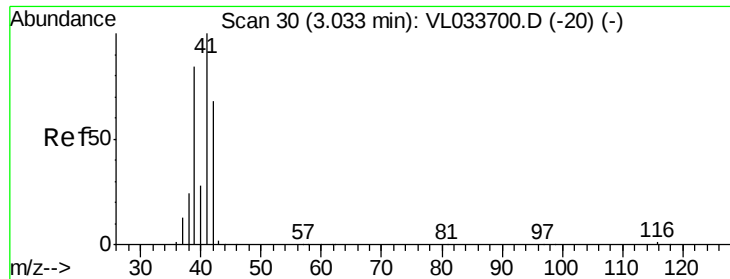
Tgt Ion: 85 Resp: 1613638

Ion Ratio Lower Upper

85 100

135 68.5 54.5 81.7





#9

Propene

Concen: 11.235 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

Instrument :

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ClientSampleId :

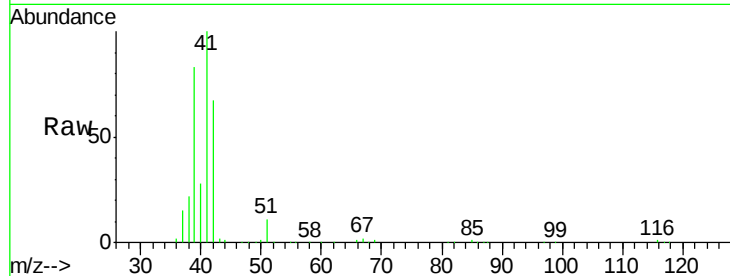
VSTDCCC010

Tot Ion: 41 Resp: 515633

Ion Ratio Lower Upper

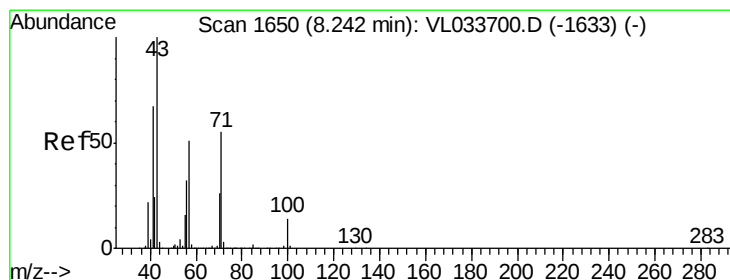
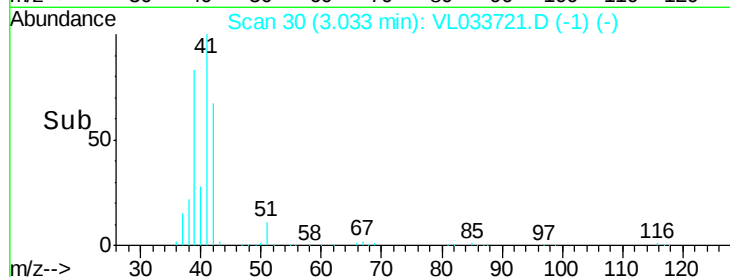
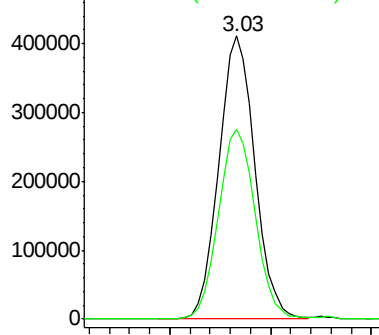
41 100

42 69.4 56.1 84.1



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 9.257 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. 0.00 min

Lab File: VL033721.D

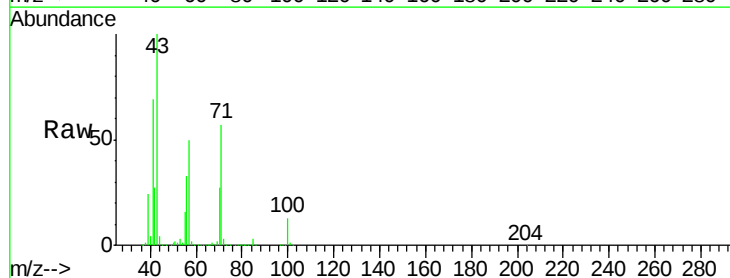
Acq: 20 May 2019 11:21

Tgt Ion: 43 Resp: 1203084

Ion Ratio Lower Upper

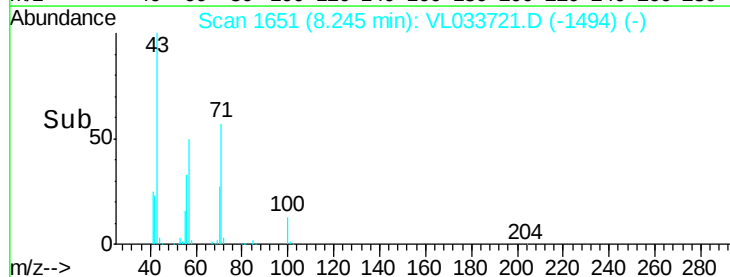
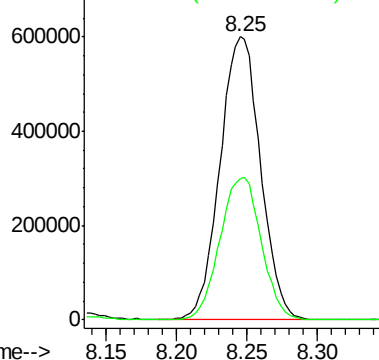
43 100

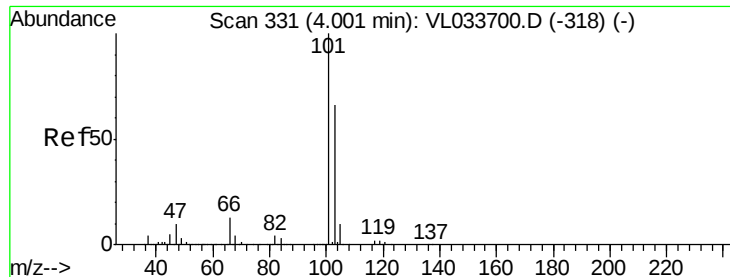
57 51.6 41.4 62.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 9.382 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.00 min

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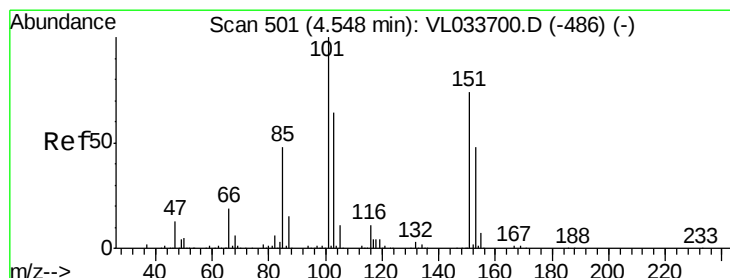
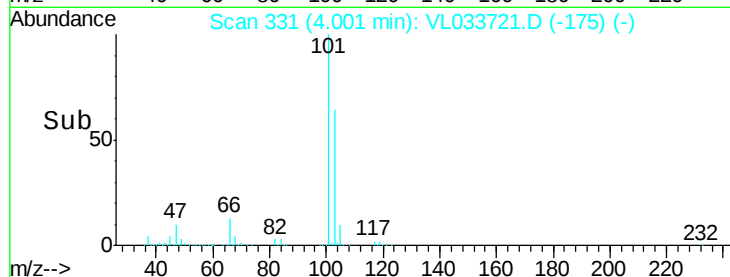
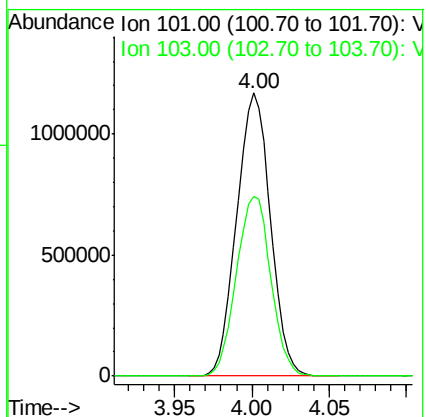
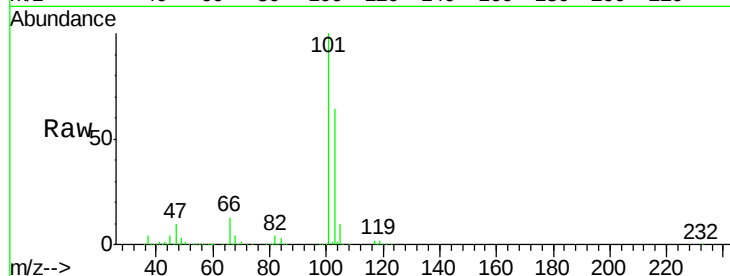
VSTDCCC010

Tot Ion:101 Resp: 1777700

Ion Ratio Lower Upper

101 100

103 63.7 52.6 78.8



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.834 ppbv

RT: 4.55 min Scan# 501

Delta R.T. 0.00 min

Lab File: VL033721.D

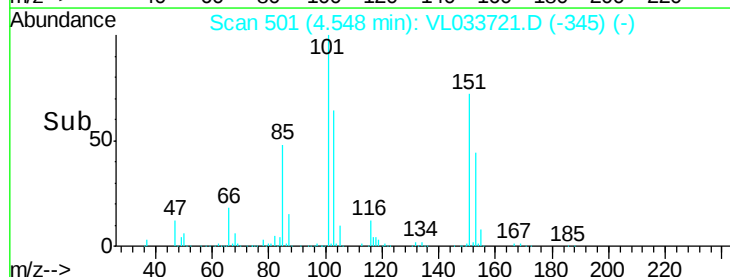
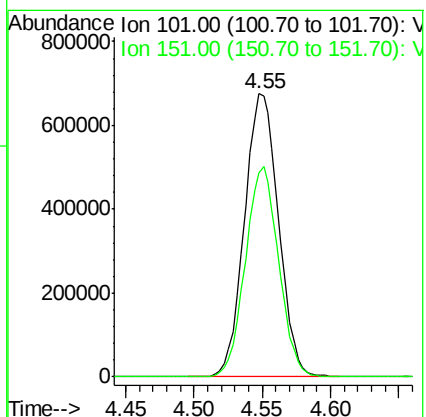
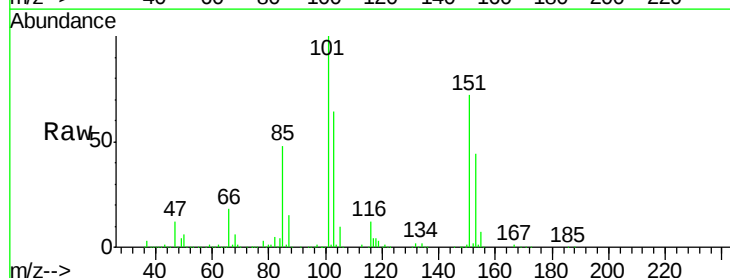
Acq: 20 May 2019 11:21

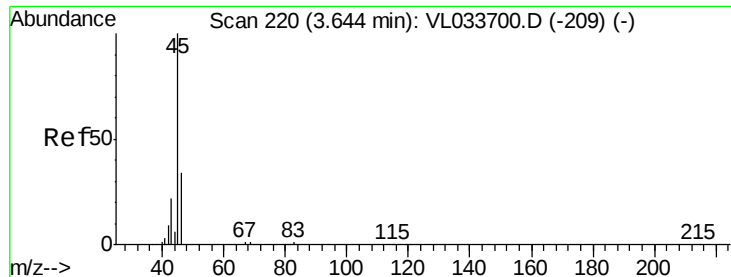
Tgt Ion:101 Resp: 1168857

Ion Ratio Lower Upper

101 100

151 73.1 58.2 87.4

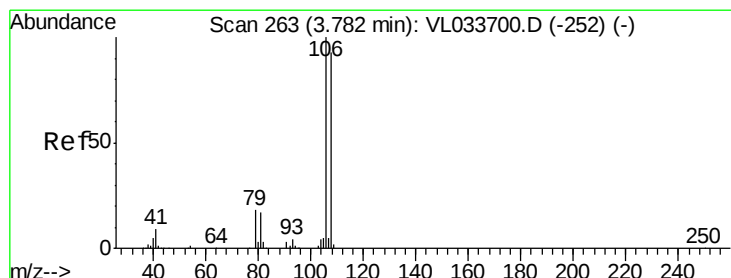
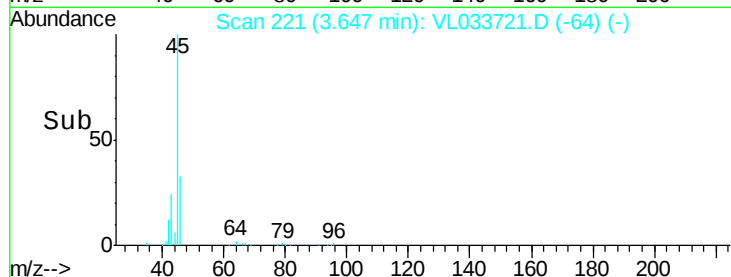
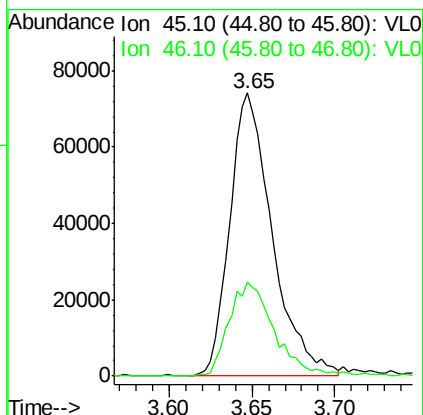
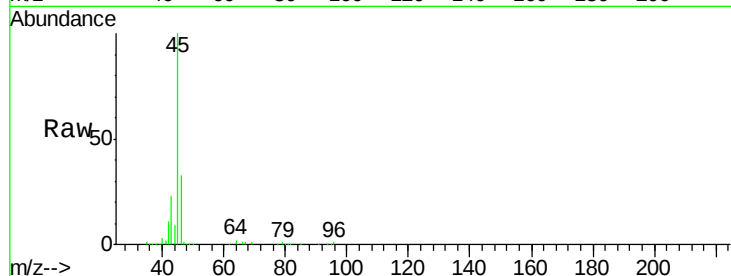




#13
Ethanol
Concen: 8.921 ppbv
RT: 3.65 min Scan# 221
Delta R.T. 0.00 min
Lab File: VL033721.D
Acq: 20 May 2019 11:21

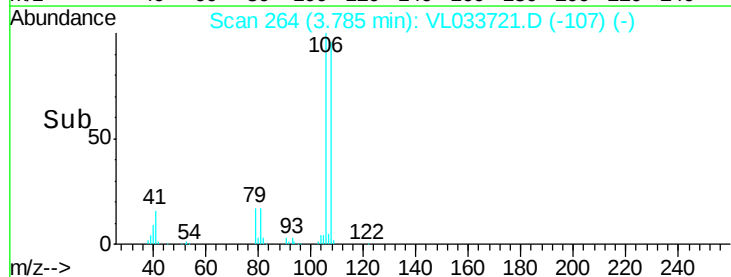
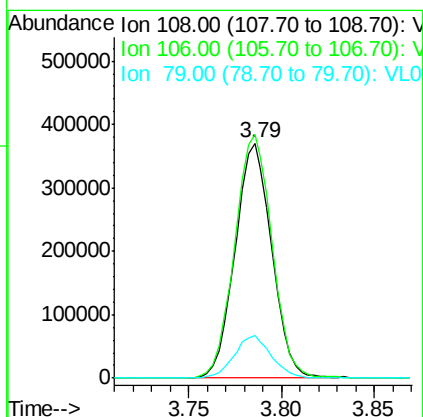
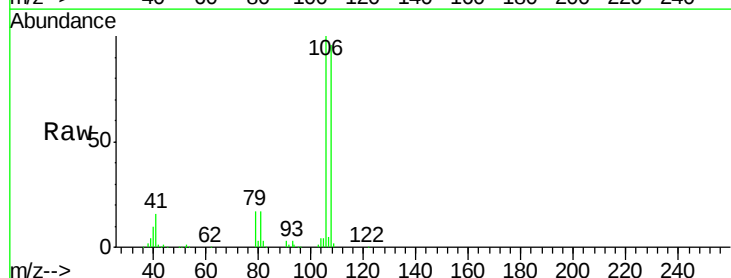
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

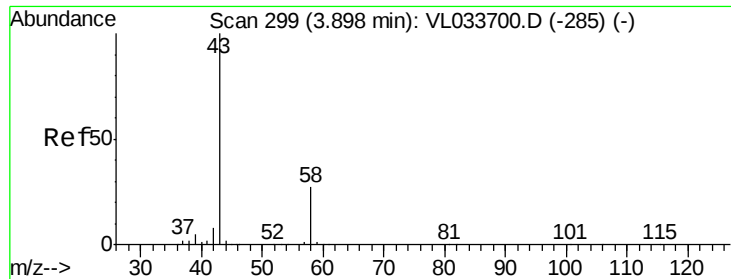
Tot Ion: 45 Resp: 132343
Ion Ratio Lower Upper
45 100
46 35.9 14.8 59.0



#14
Bromoethene
Concen: 10.454 ppbv
RT: 3.79 min Scan# 264
Delta R.T. 0.00 min
Lab File: VL033721.D
Acq: 20 May 2019 11:21

Tgt Ion: 108 Resp: 508495
Ion Ratio Lower Upper
108 100
106 106.0 86.5 129.7
79 18.7 15.1 22.7





#15

Acetone

Concen: 8.876 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

Instrument :

MSVOA_L

ClientSampleId :

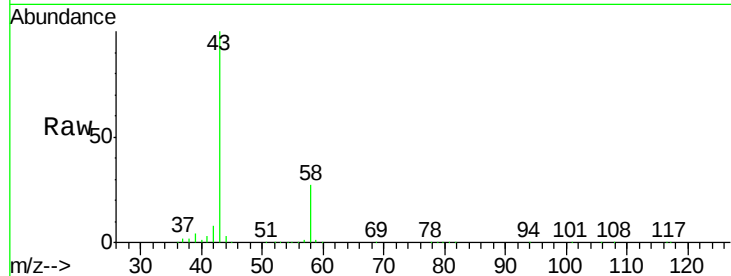
VSTDCCC010

Tot Ion: 43 Resp: 1160134

Ion Ratio Lower Upper

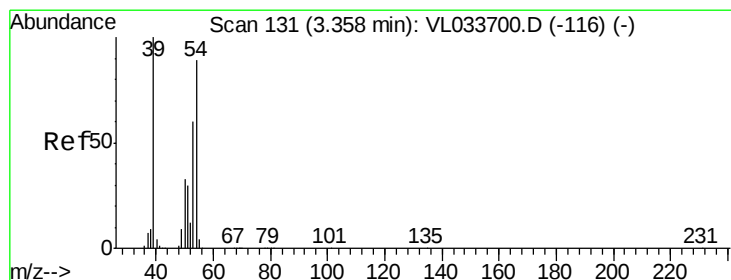
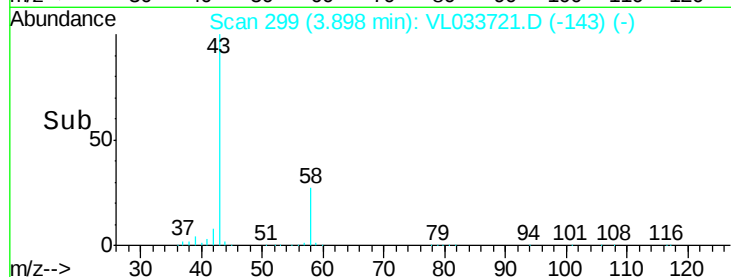
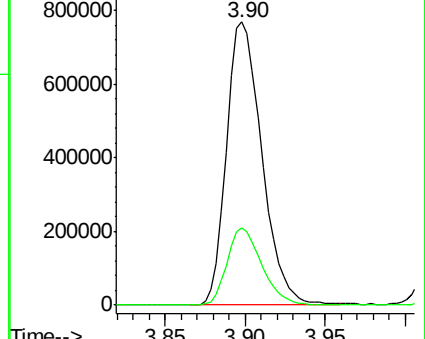
43 100

58 26.8 21.3 31.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 10.396 ppbv

RT: 3.36 min Scan# 132

Delta R.T. 0.00 min

Lab File: VL033721.D

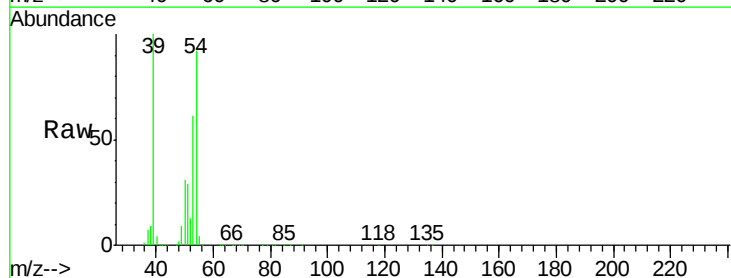
Acq: 20 May 2019 11:21

Tgt Ion: 39 Resp: 541085

Ion Ratio Lower Upper

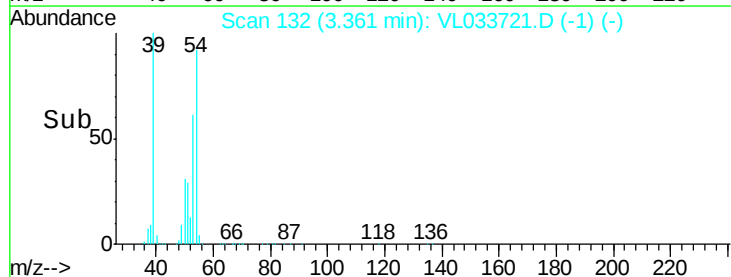
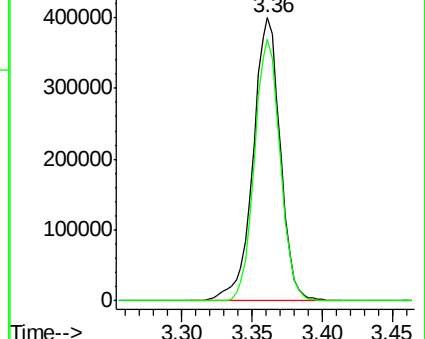
39 100

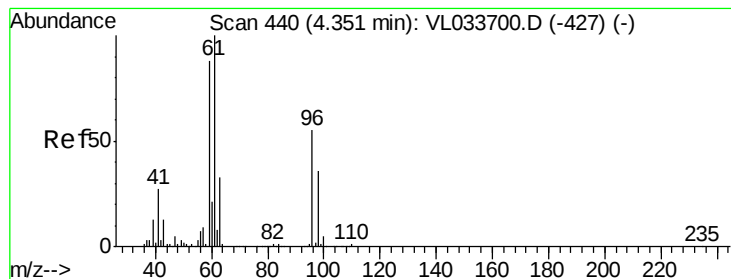
54 87.6 69.0 103.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 10.535 ppbv

RT: 4.35 min Scan# 440

Delta R.T. 0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

Instrument :

MSVOA_L

ClientSampleId :

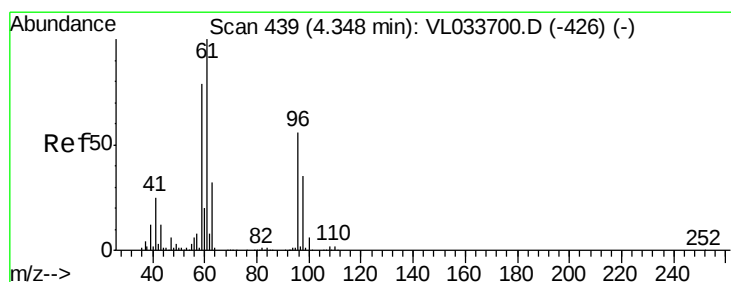
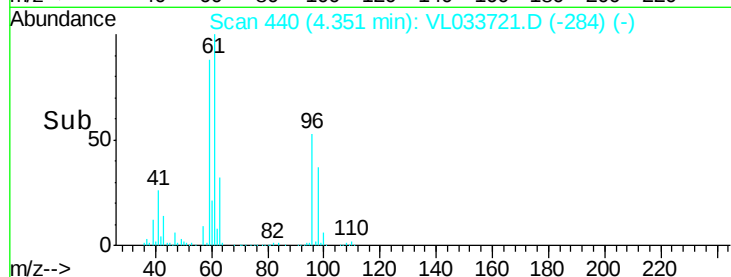
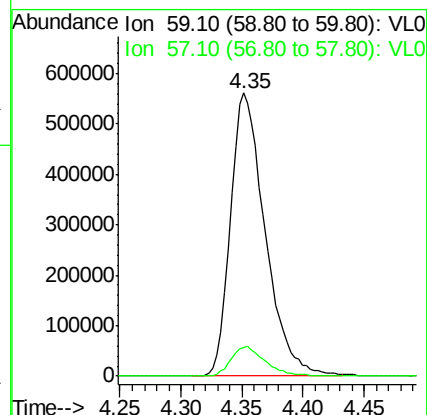
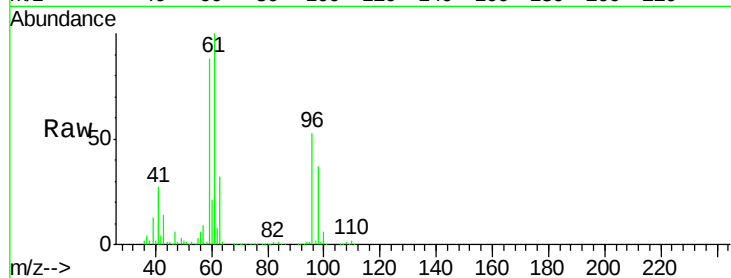
VSTDCCC010

Tot Ion: 59 Resp: 1113463

Ion Ratio Lower Upper

59 100

57 10.4 8.4 12.6



#18

1,1-Dichloroethene

Concen: 9.687 ppbv

RT: 4.35 min Scan# 439

Delta R.T. 0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

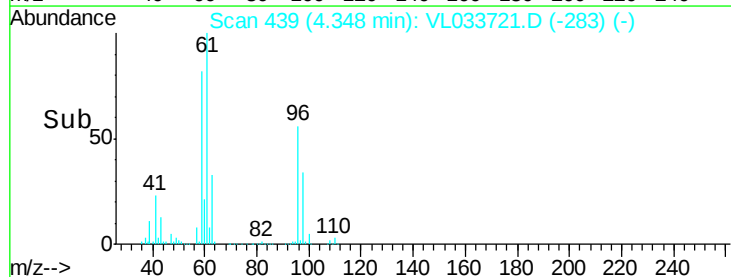
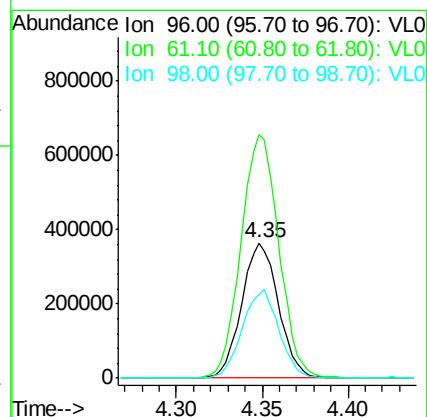
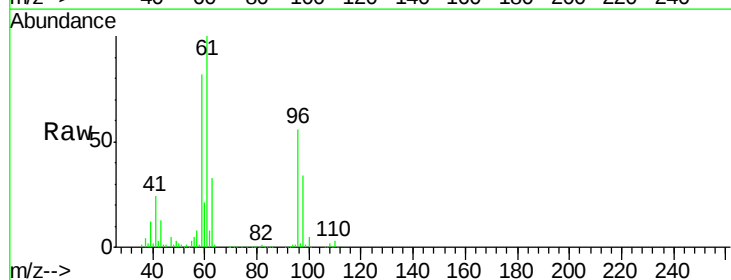
Tgt Ion: 96 Resp: 540999

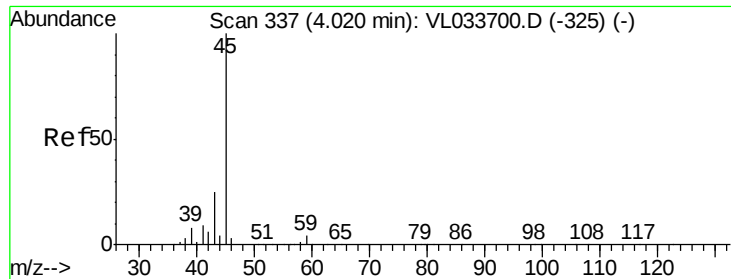
Ion Ratio Lower Upper

96 100

61 179.8 143.1 214.7

98 61.8 49.5 74.3





#19

Isopropyl Alcohol

Concen: 9.700 ppbv

RT: 4.02 min Scan# 337

Delta R.T. -0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

Instrument :

MSVOA_L

ClientSampleId :

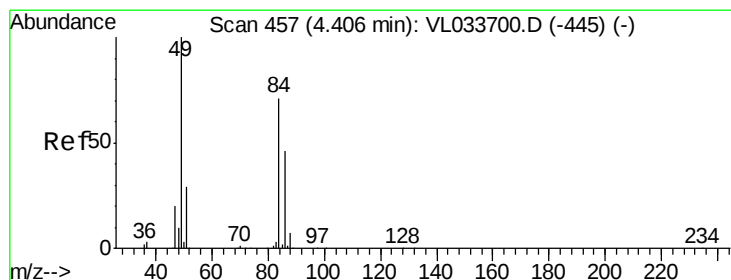
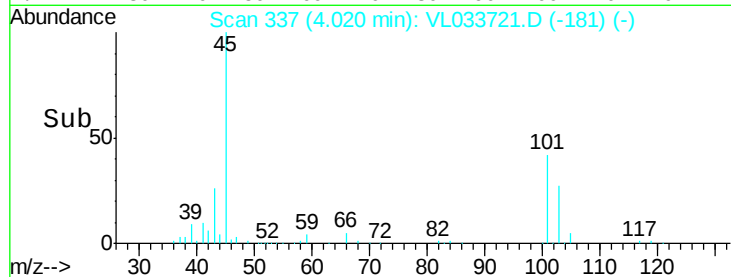
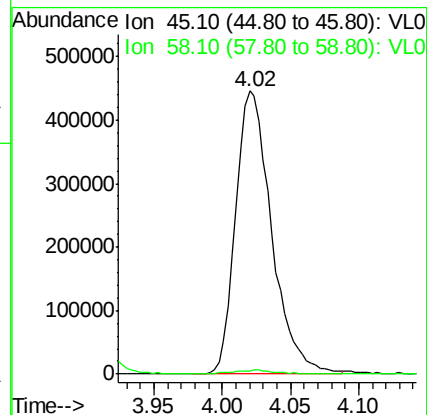
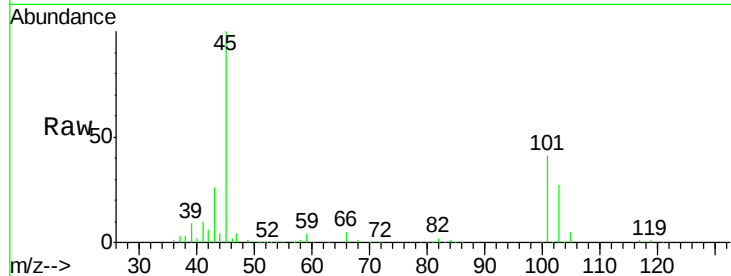
VSTDCCC010

Tot Ion: 45 Resp: 817433

Ion Ratio Lower Upper

45 100

58 2.0 1.6 2.4



#20

Methylene Chloride

Concen: 9.172 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

Tgt Ion: 84 Resp: 461566

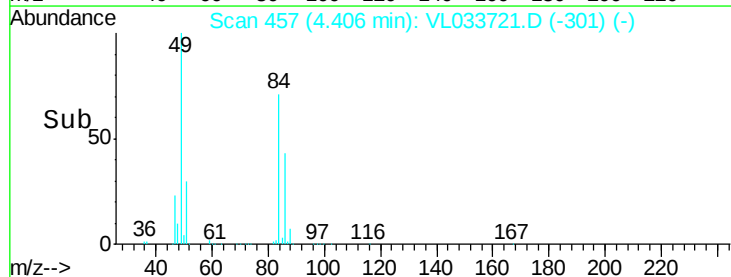
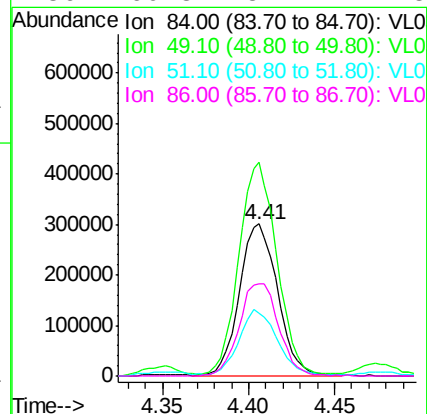
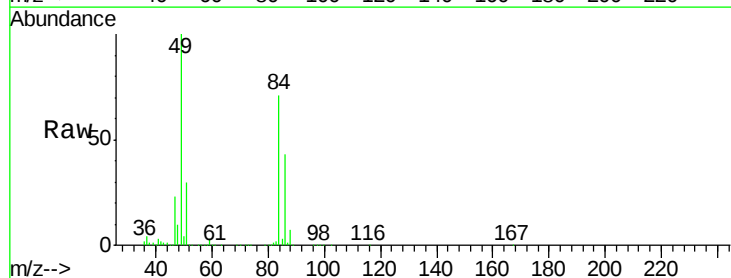
Ion Ratio Lower Upper

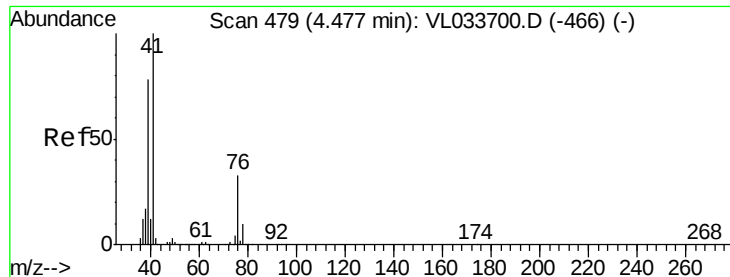
84 100

49 139.8 112.8 169.2

51 41.1 33.4 50.0

86 60.8 51.7 77.5





#21

Allvl Chloride

Concen: 9.501 ppbv

RT: 4.47 min Scan# 478

Delta R.T. -0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

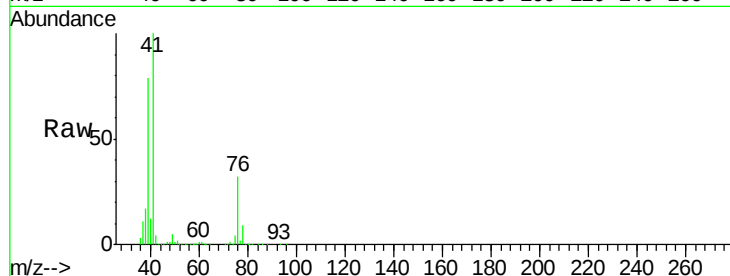
Tot Ion: 41 Resp: 774548

Ion Ratio Lower Upper

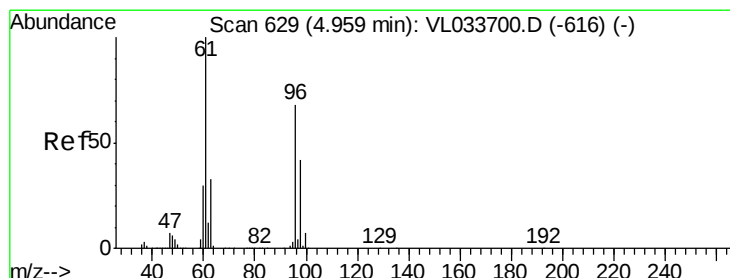
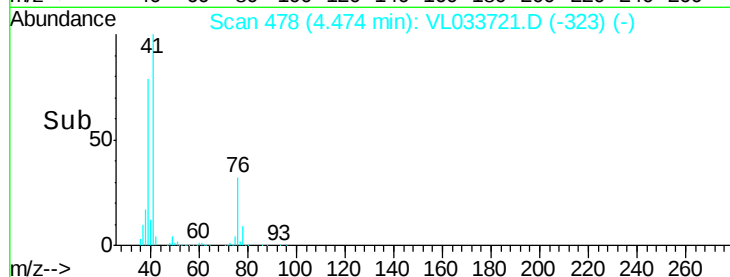
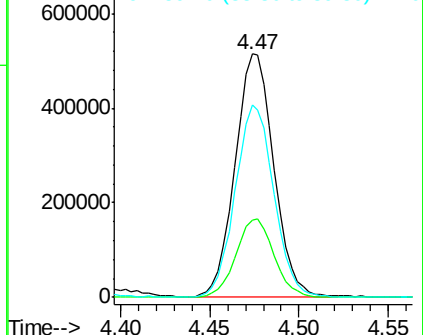
41 100

76 32.1 25.9 38.9

39 79.5 64.6 97.0



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: 9.272 ppbv

RT: 4.96 min Scan# 629

Delta R.T. -0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

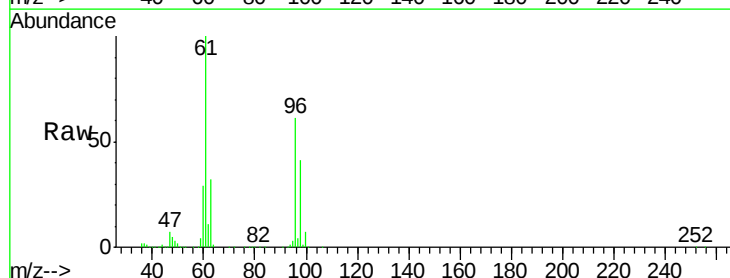
Tgt Ion: 96 Resp: 530793

Ion Ratio Lower Upper

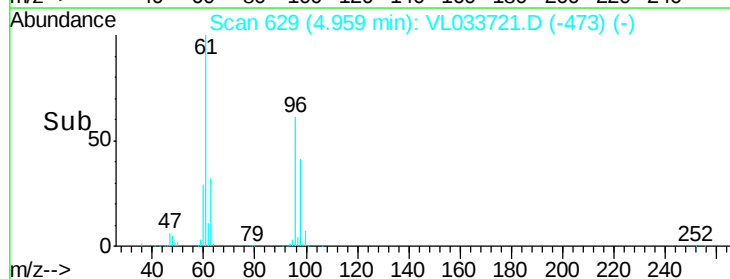
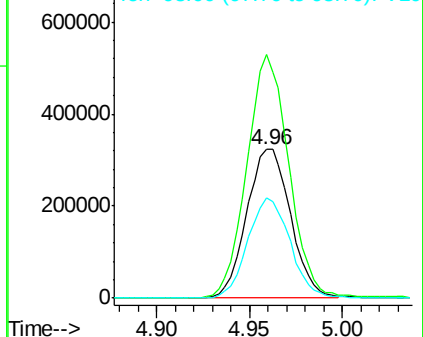
96 100

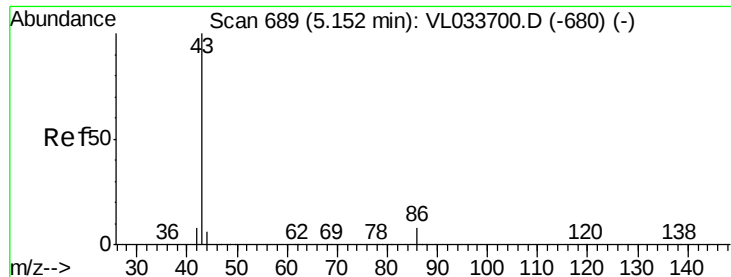
61 163.7 116.8 175.2

98 67.3 49.4 74.0



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: 10.189 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1755843

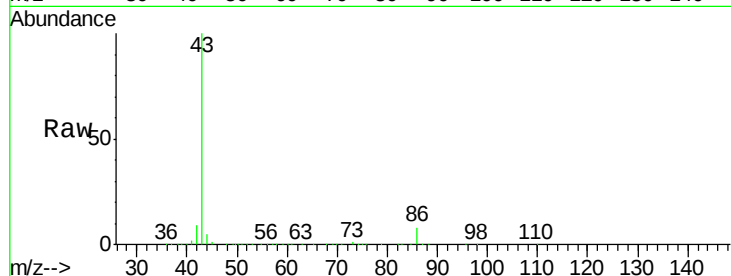
Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.0	9.0
42	8.8	7.5	11.3
44	4.9	4.4	6.6

43 100

86 8.0 6.0 9.0

42 8.8 7.5 11.3

44 4.9 4.4 6.6

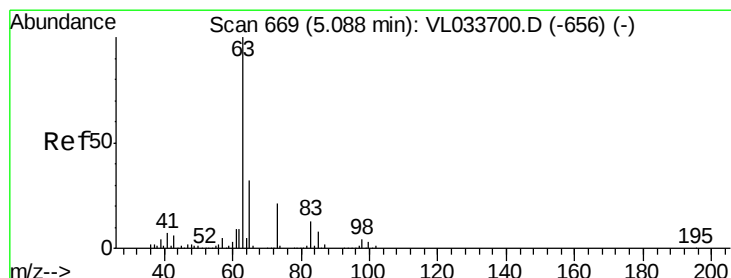
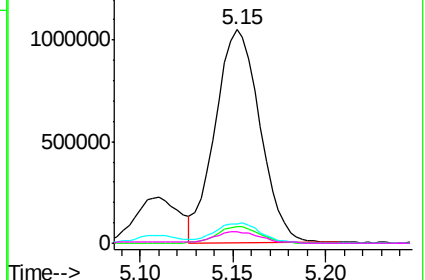
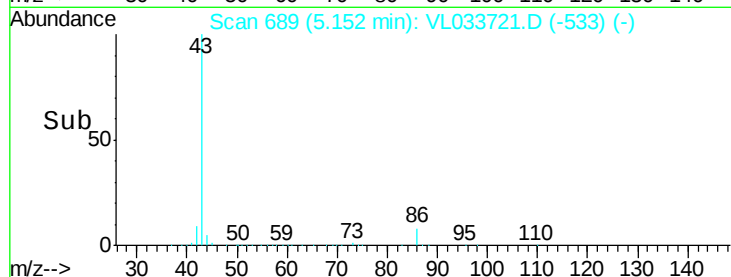


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.166 ppbv

RT: 5.09 min Scan# 669

Delta R.T. -0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

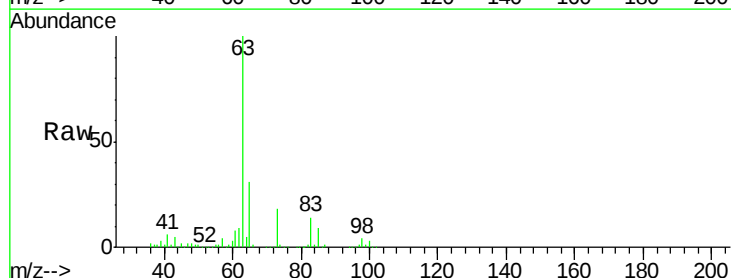
Tgt Ion: 63 Resp: 1200766

Ion	Ratio	Lower	Upper
63	100		
98	4.2	1.8	5.5
100	2.6	1.4	4.2

63 100

98 4.2 1.8 5.5

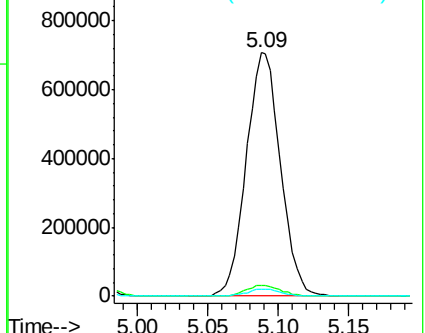
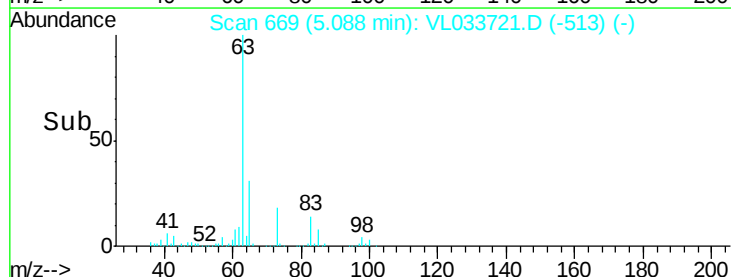
100 2.6 1.4 4.2

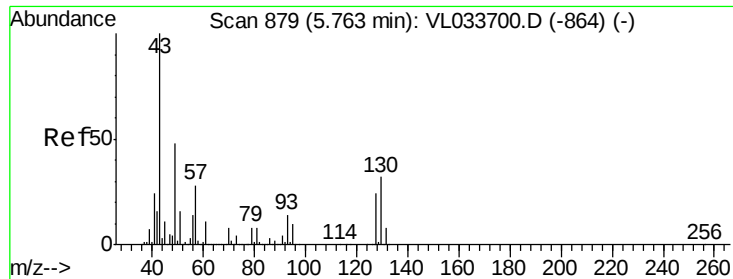


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



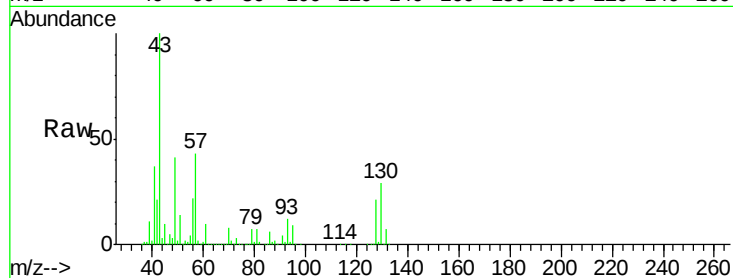


#25
Ethyl Acetate
Concen: 8.864 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.01 min
Lab File: VL033721.D
Acq: 20 May 2019 11:21

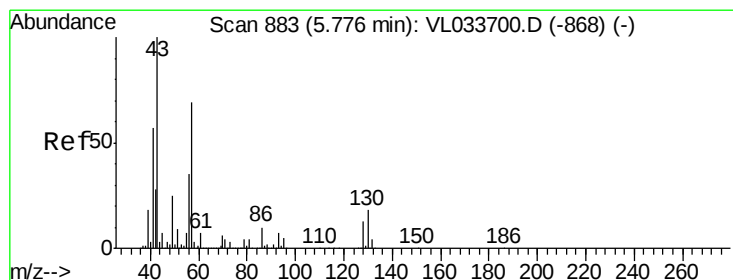
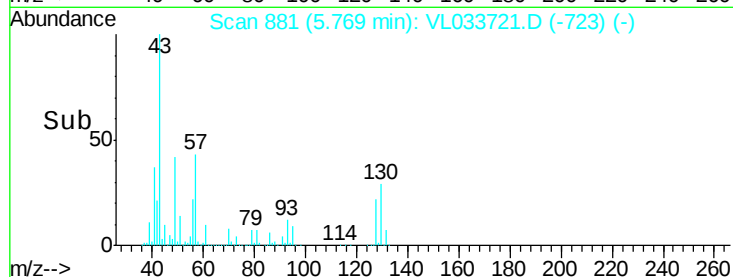
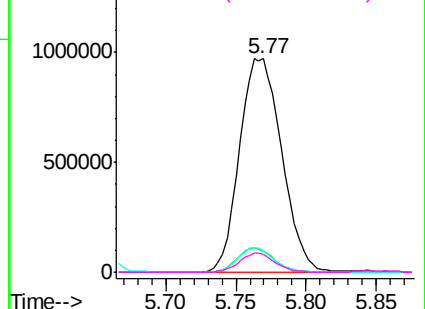
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 2035257

Ion	Ratio	Lower	Upper
43	100		
45	10.1	7.9	11.9
61	9.8	7.7	11.5
70	7.5	5.8	8.6



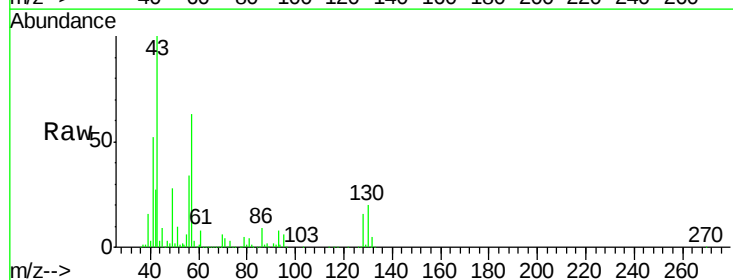
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



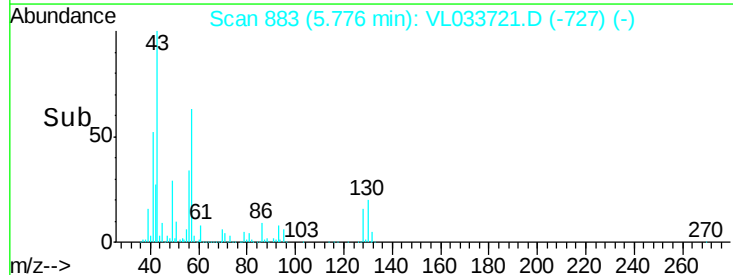
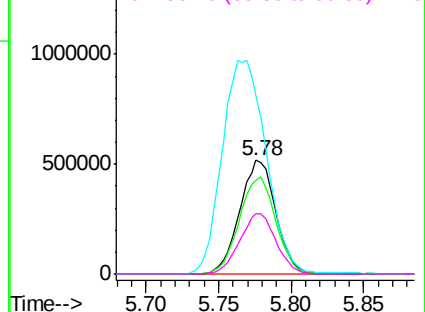
#26
Hexane
Concen: 9.068 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033721.D
Acq: 20 May 2019 11:21

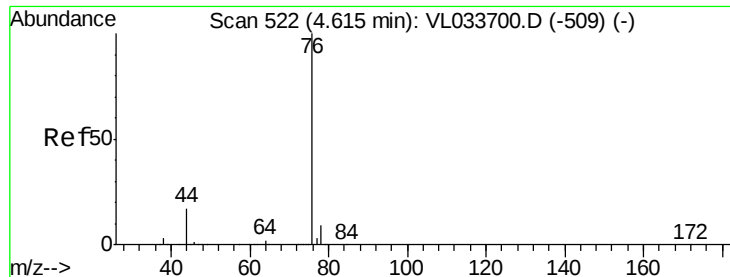
Tgt Ion: 57 Resp: 895085

Ion	Ratio	Lower	Upper
57	100		
41	86.3	69.8	104.6
43	228.6	181.8	272.6
56	53.2	42.1	63.1



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: 9.624 ppbv

RT: 4.62 min Scan# 523

Delta R.T. 0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

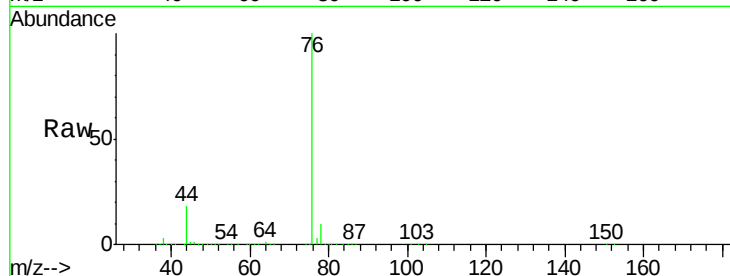
Tot Ion: 76 Resp: 1303311

Ion Ratio Lower Upper

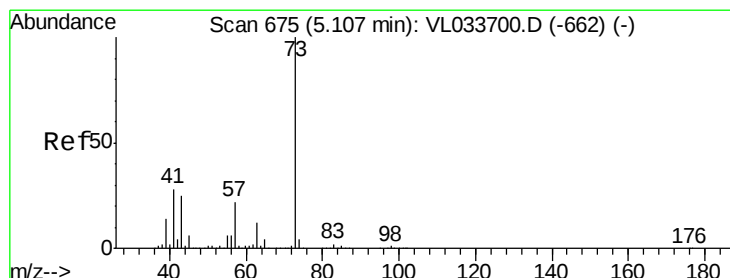
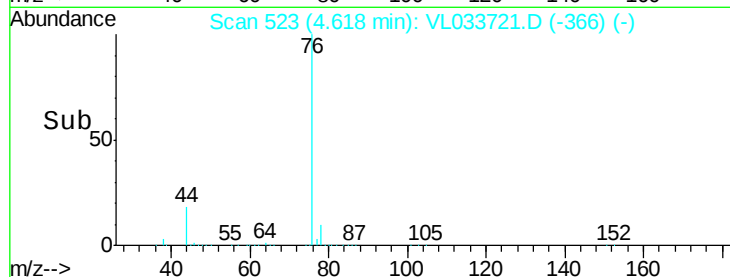
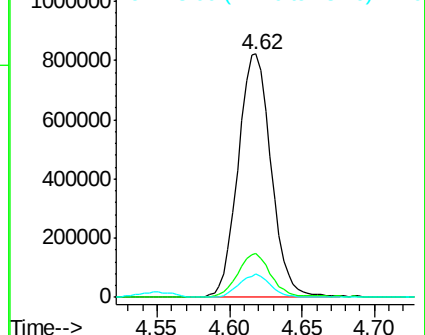
76 100

44 18.1 13.8 20.8

78 9.1 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.069 ppbv

RT: 5.11 min Scan# 676

Delta R.T. 0.00 min

Lab File: VL033721.D

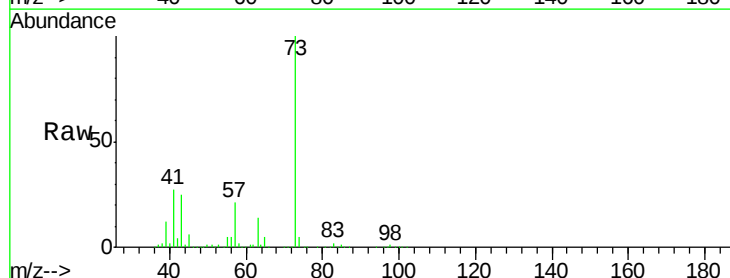
Acq: 20 May 2019 11:21

Tgt Ion: 73 Resp: 1620181

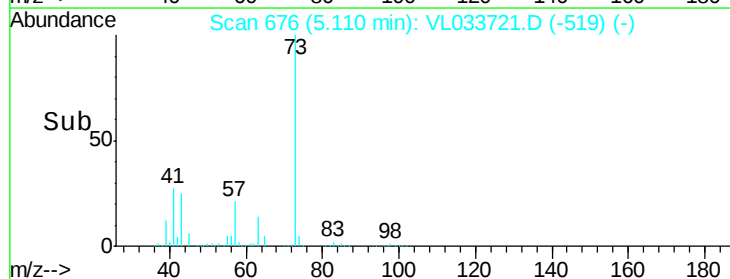
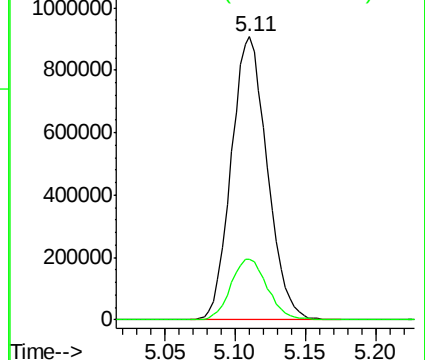
Ion Ratio Lower Upper

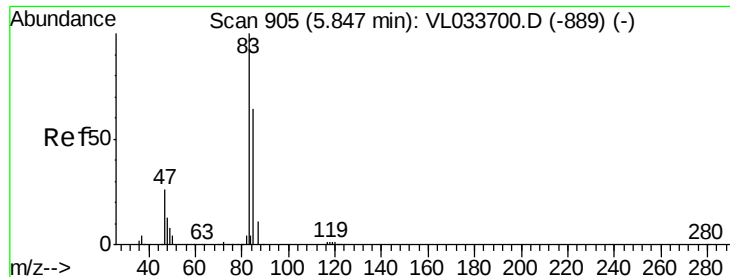
73 100

57 21.8 17.4 26.2



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

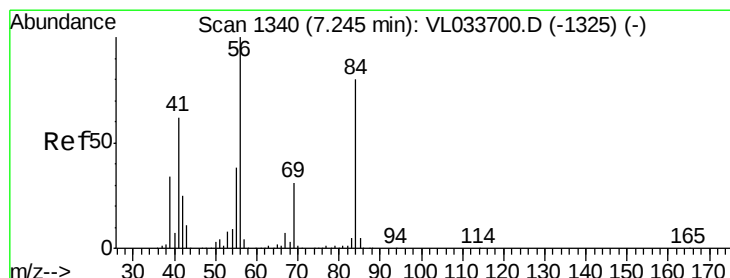
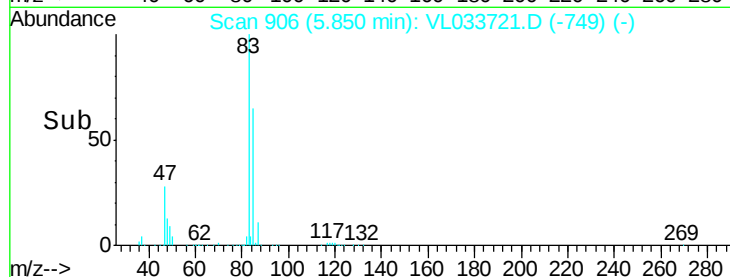
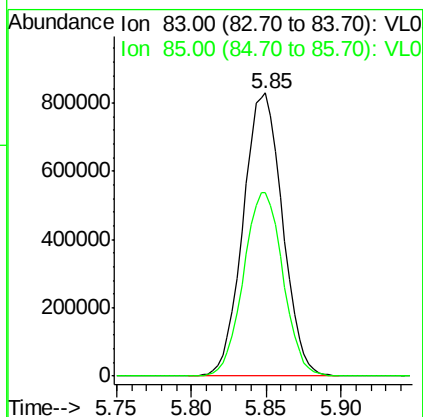
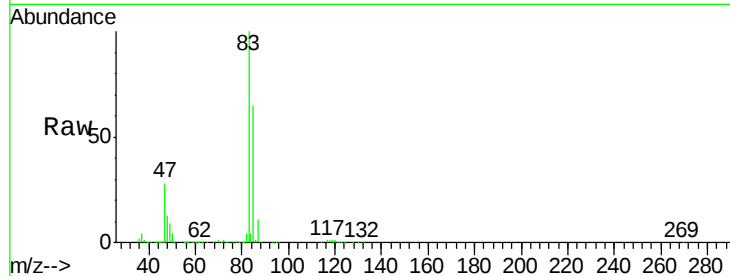




#29
Chloroform
Concen: 8.370 ppbv
RT: 5.85 min Scan# 906
Delta R.T. 0.00 min
Lab File: VL033721.D
Acq: 20 May 2019 11:21

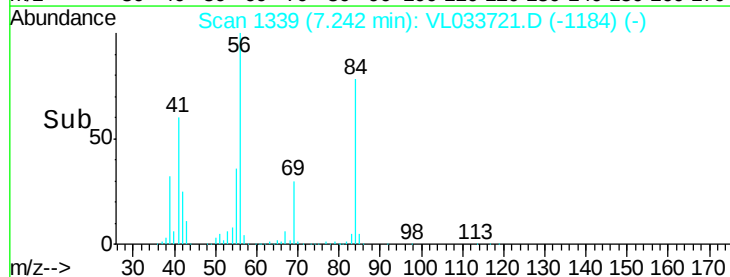
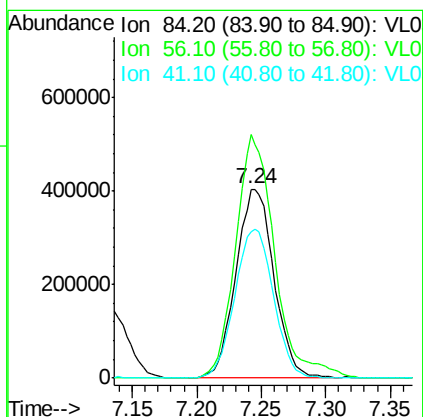
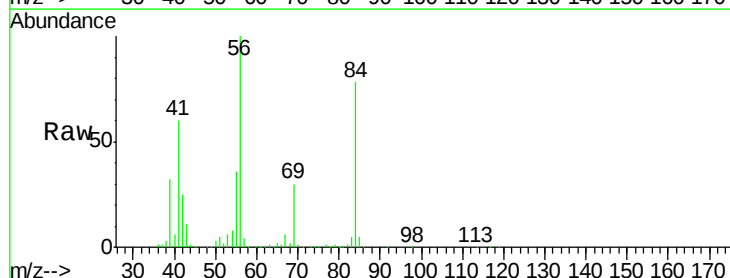
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

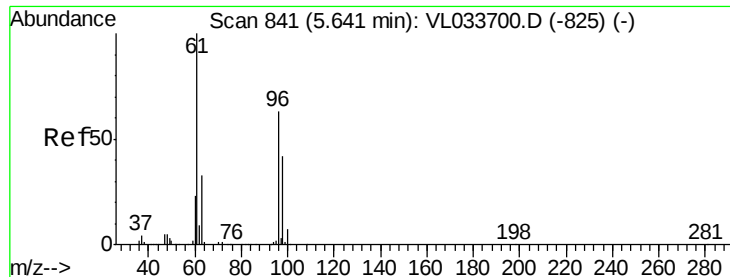
Tot Ion: 83 Resp: 1521751
Ion Ratio Lower Upper
83 100
85 64.7 51.5 77.3



#30
Cyclohexane
Concen: 9.981 ppbv
RT: 7.24 min Scan# 1339
Delta R.T. -0.00 min
Lab File: VL033721.D
Acq: 20 May 2019 11:21

Tgt Ion: 84 Resp: 828226
Ion Ratio Lower Upper
84 100
56 133.0 107.7 161.5
41 80.0 66.0 99.0



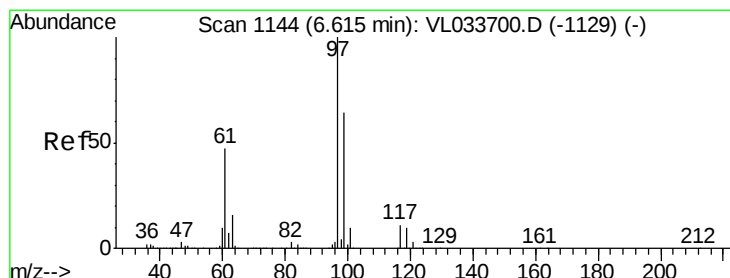
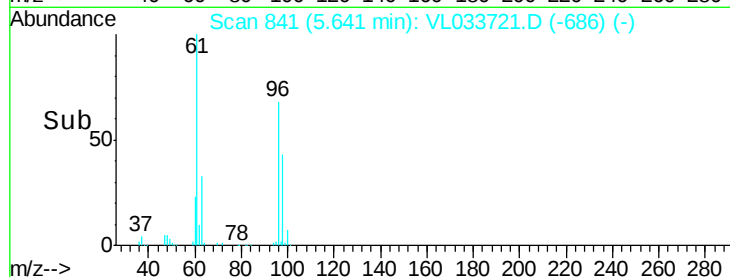
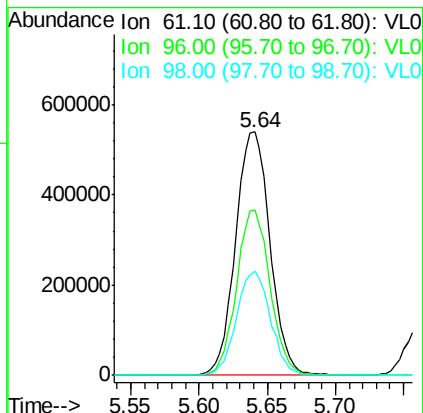
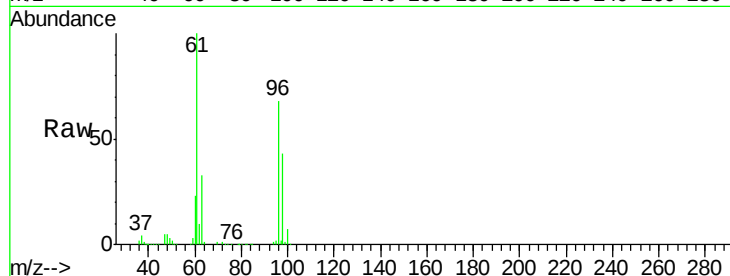


#31

cis-1,2-Dichloroethene
 Concen: 9.689 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. -0.00 min
 Lab File: VL033721.D
 Acq: 20 May 2019 11:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

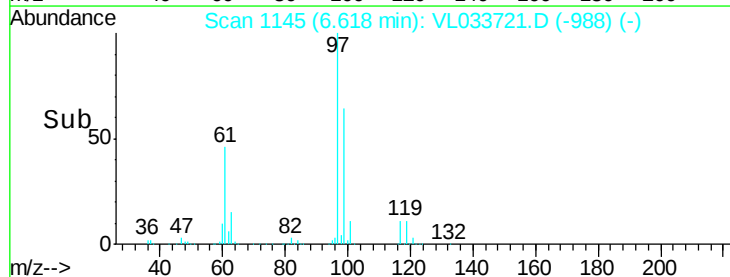
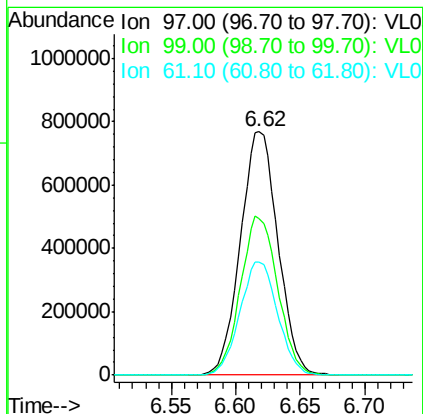
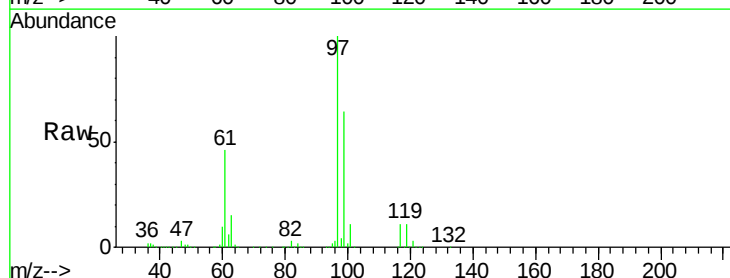
Tot Ion:	61	Resp:	948206
Ion	Ratio	Lower	Upper
61	100		
96	68.1	50.8	76.2
98	42.9	33.3	49.9

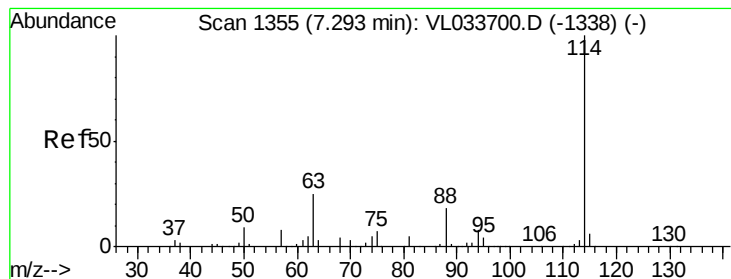


#32

1,1,1-Trichloroethane
 Concen: 8.587 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. 0.00 min
 Lab File: VL033721.D
 Acq: 20 May 2019 11:21

Tgt Ion:	97	Resp:	1558859
Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.5	77.3
61	46.8	37.8	56.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

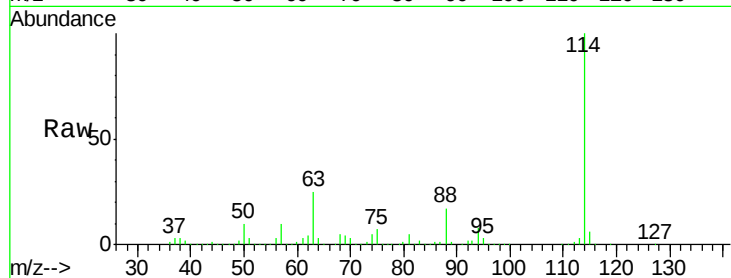
Tot Ion:114 Resp: 2397094

Ion Ratio Lower Upper

114 100

63 25.5 20.9 31.3

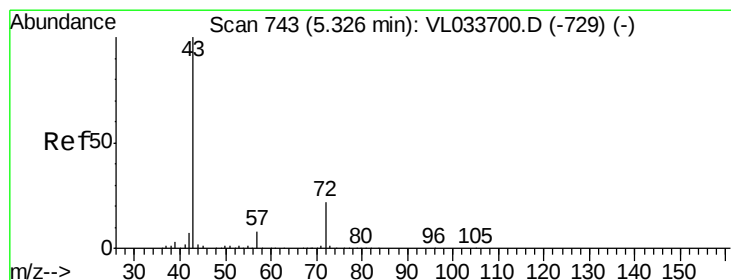
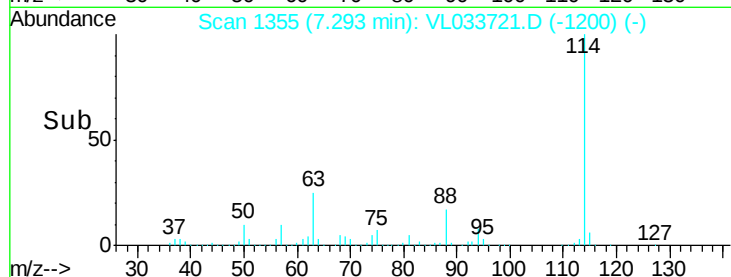
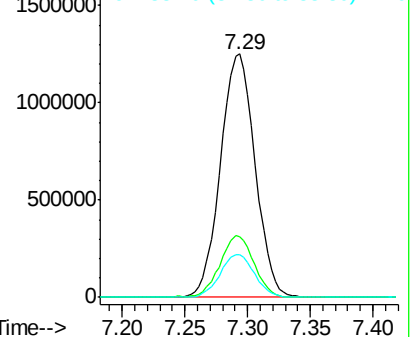
88 17.6 14.3 21.5



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: 9.294 ppbv

RT: 5.33 min Scan# 743

Delta R.T. -0.00 min

Lab File: VL033721.D

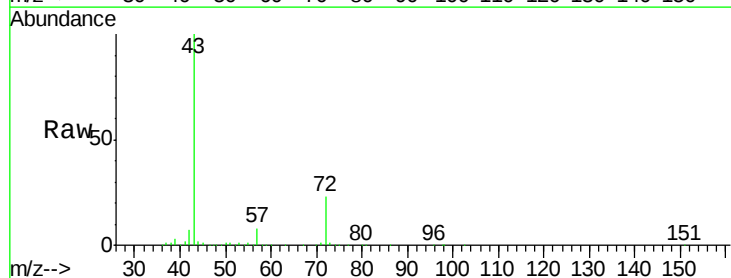
Acq: 20 May 2019 11:21

Tgt Ion: 43 Resp: 1380947

Ion Ratio Lower Upper

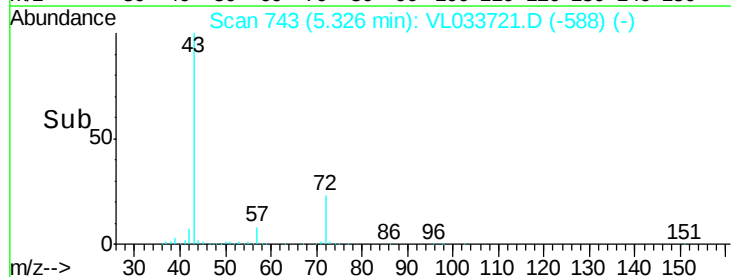
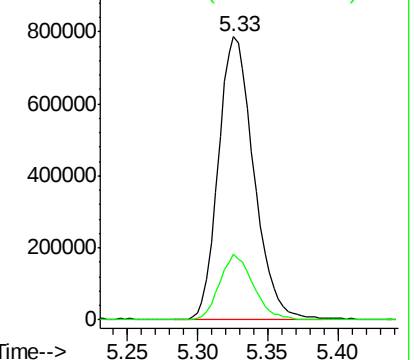
43 100

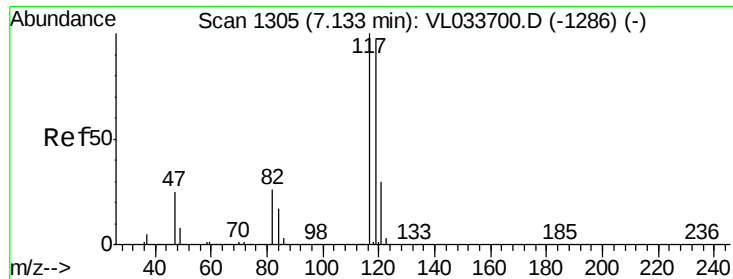
72 22.3 17.8 26.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.025 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. -0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

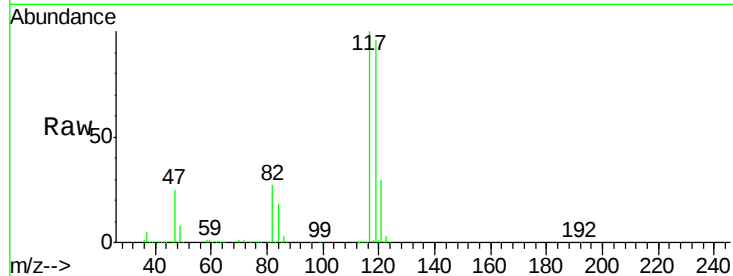
Tot Ion:117 Resp: 1732896

Ion Ratio Lower Upper

117 100

119 96.1 77.2 115.8

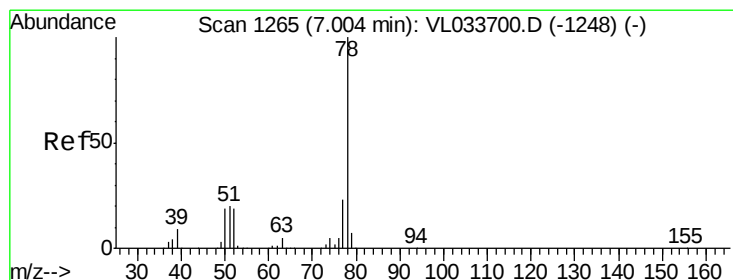
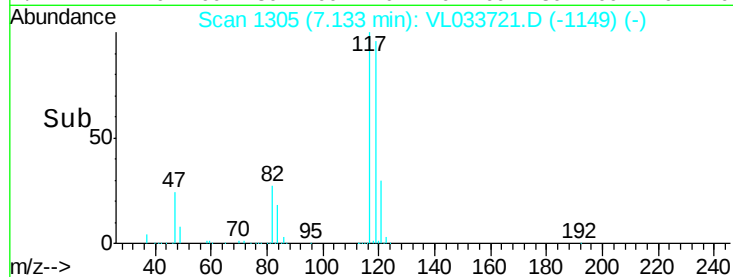
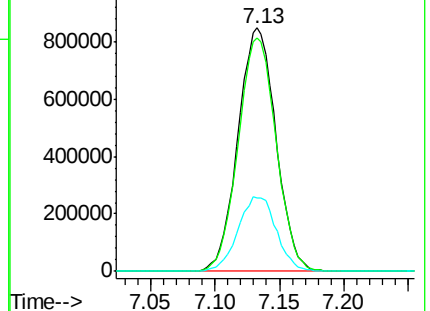
121 30.3 24.1 36.1



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: 9.067 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

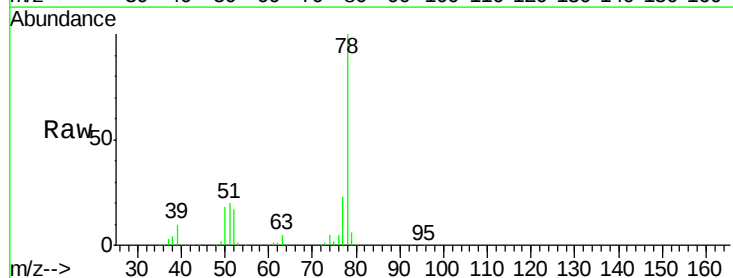
Tgt Ion: 78 Resp: 1977064

Ion Ratio Lower Upper

78 100

77 22.8 18.4 27.6

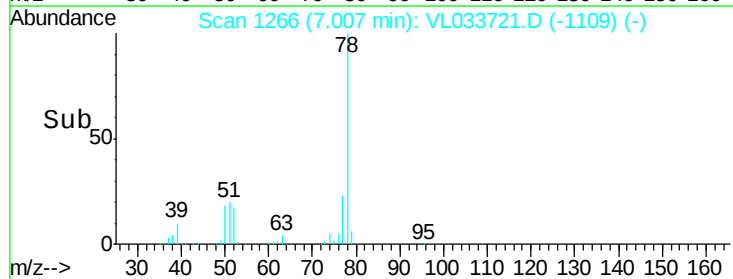
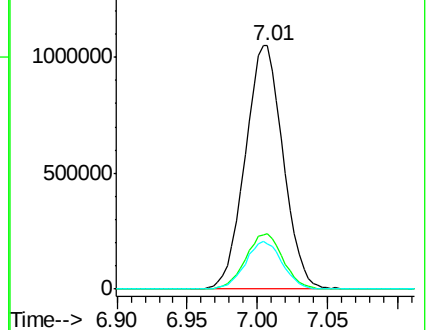
50 18.3 15.5 23.3

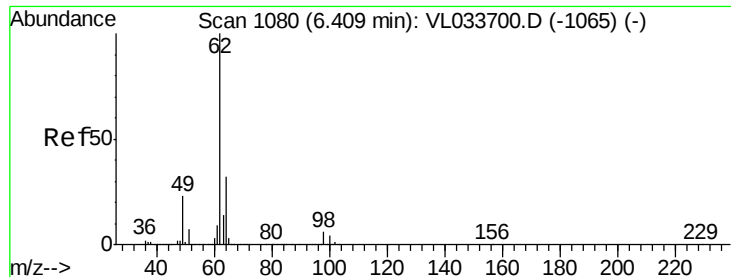


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 8.176 ppbv

RT: 6.41 min Scan# 1081

Delta R.T. 0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

Instrument :

MSVOA_L

ClientSampleId :

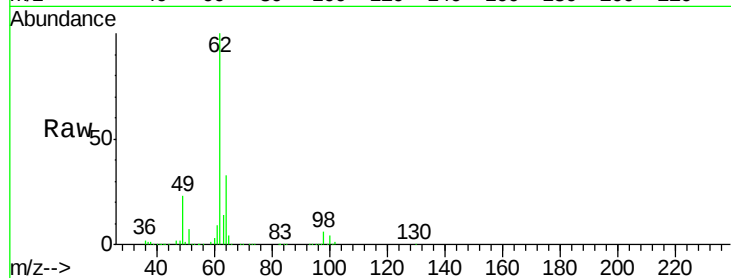
VSTDCCC010

Tot Ion: 62 Resp: 1149957

Ion Ratio Lower Upper

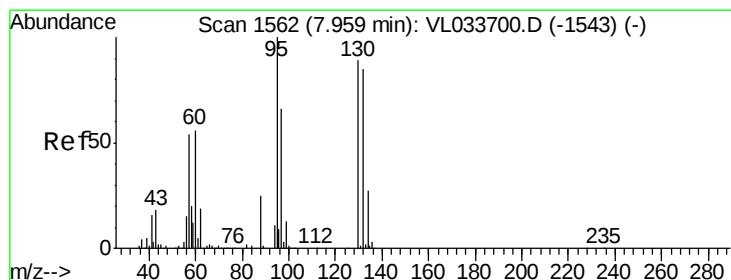
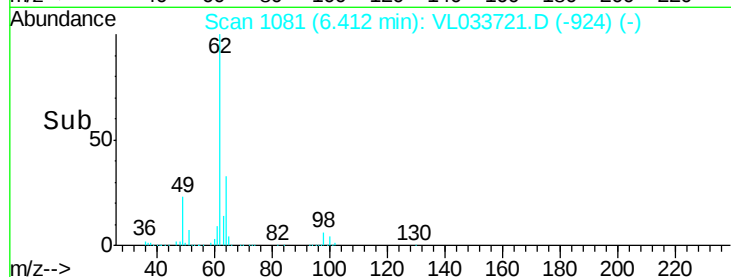
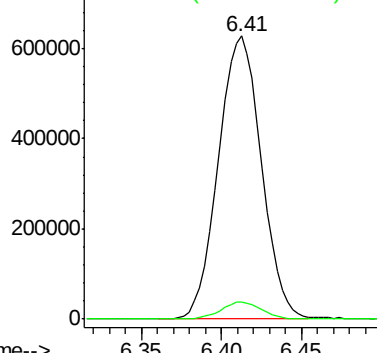
62 100

98 5.9 4.5 6.7



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 9.881 ppbv

RT: 7.96 min Scan# 1562

Delta R.T. -0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

Tgt Ion: 130 Resp: 799478

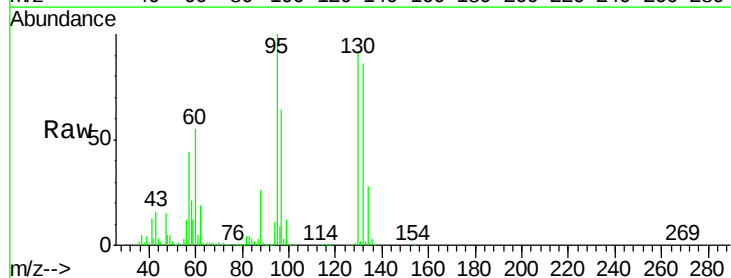
Ion Ratio Lower Upper

130 100

95 109.7 90.2 135.4

132 94.7 76.4 114.6

97 69.8 59.8 89.6

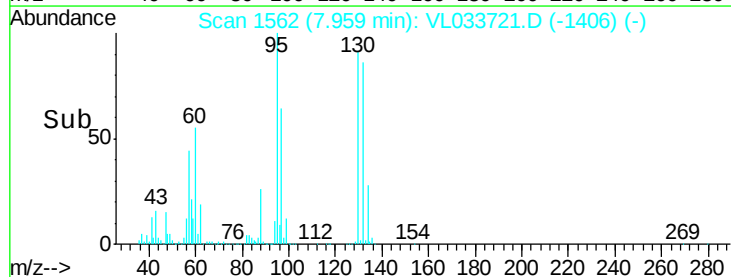
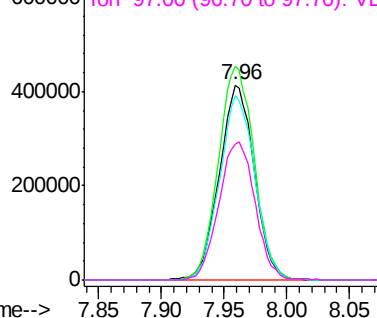


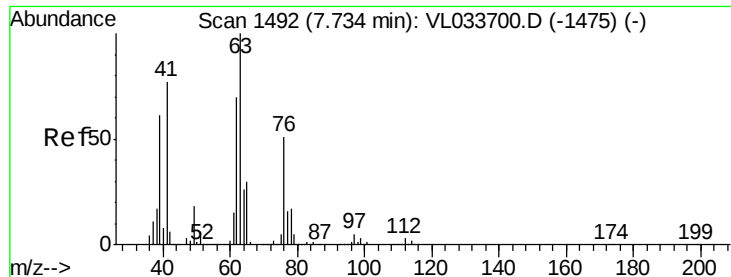
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



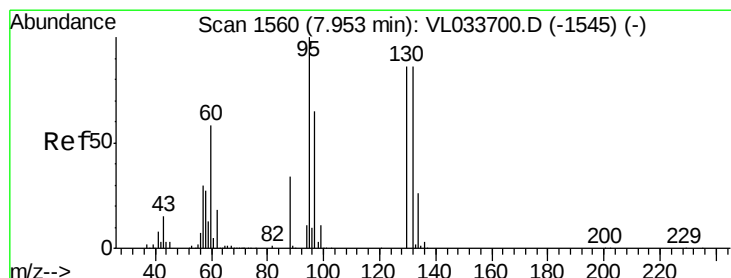
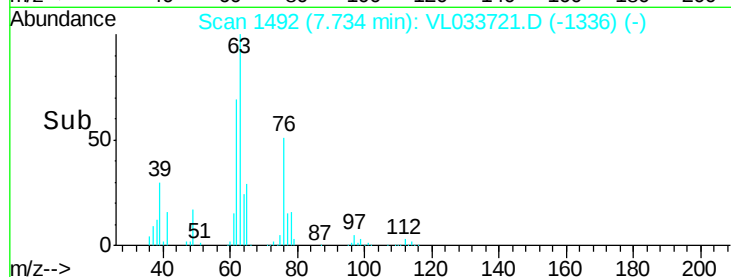
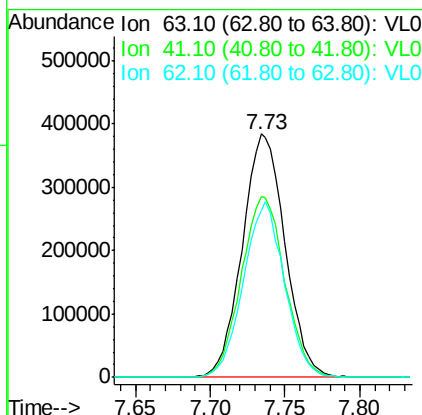
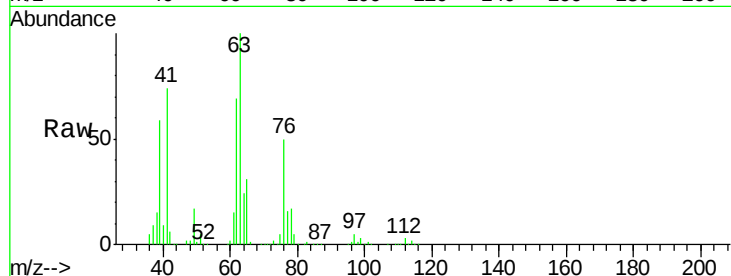


#39
 1,2-Dichloropropane
 Concen: 9.402 ppbv
 RT: 7.73 min Scan# 1492
 Delta R.T. 0.00 min
 Lab File: VL033721.D
 Acq: 20 May 2019 11:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 63 Resp: 764307

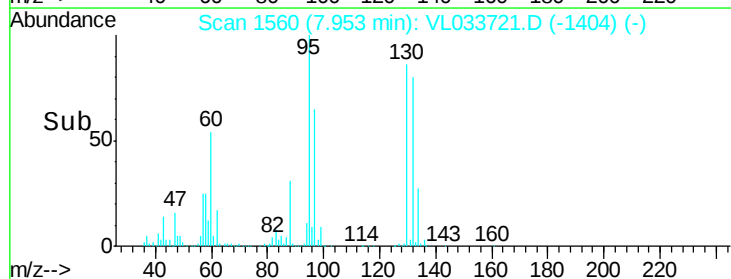
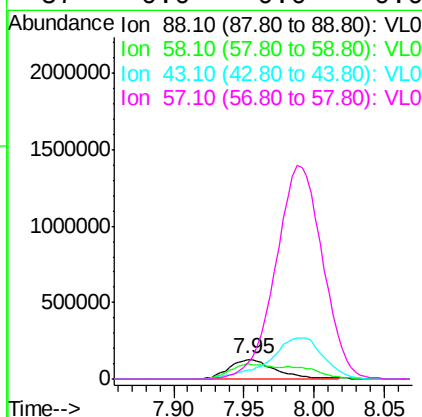
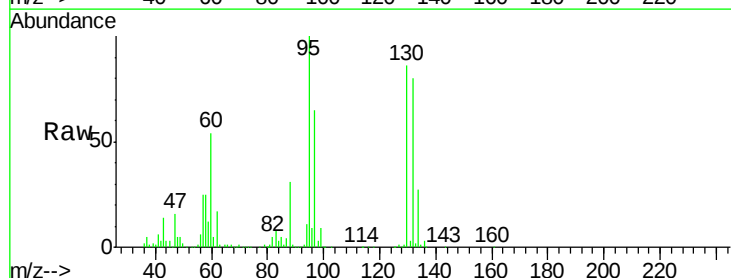
Ion	Ratio	Lower	Upper
63	100		
41	73.9	61.5	92.3
62	68.7	56.2	84.4

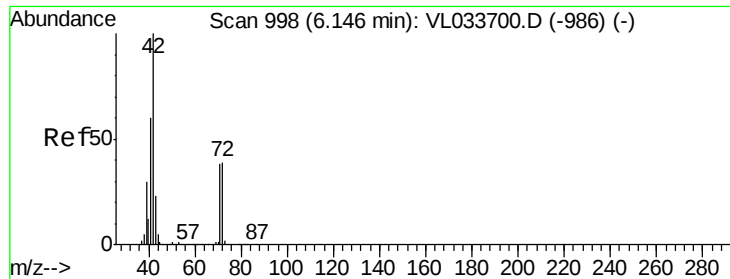


#40
 1,4-Dioxane
 Concen: 8.511 ppbv
 RT: 7.95 min Scan# 1560
 Delta R.T. -0.00 min
 Lab File: VL033721.D
 Acq: 20 May 2019 11:21

Tgt Ion: 88 Resp: 289445

Ion	Ratio	Lower	Upper
88	100		
58	125.2	101.8	152.6
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 9.132 ppbv

RT: 6.15 min Scan# 998

Delta R.T. -0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

Instrument :

MSVOA_L

ClientSampled :

VSTDCCC010

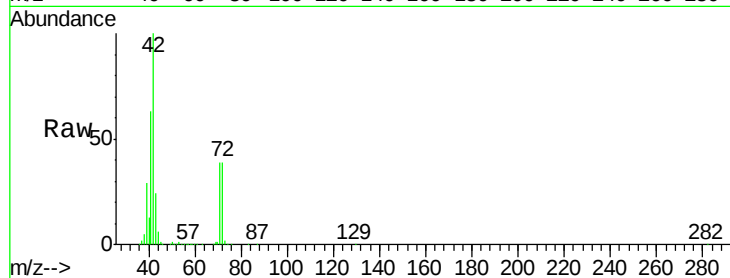
Tot Ion: 42 Resp: 760226

Ion Ratio Lower Upper

42 100

72 40.6 32.0 48.0

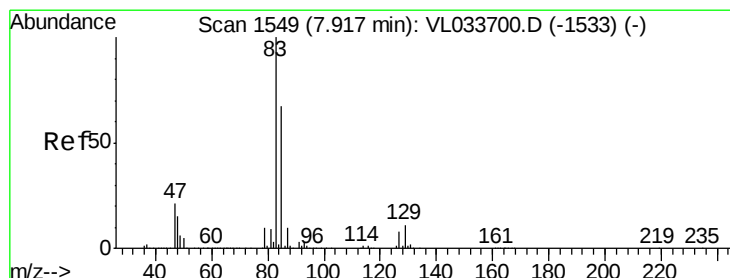
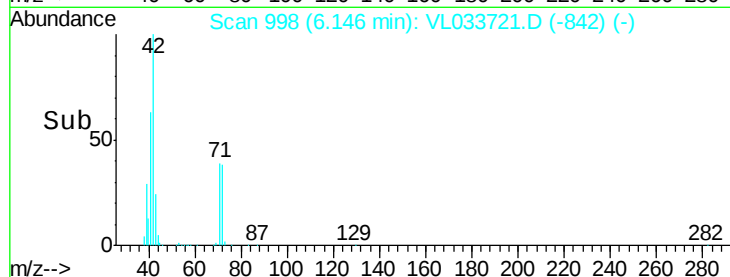
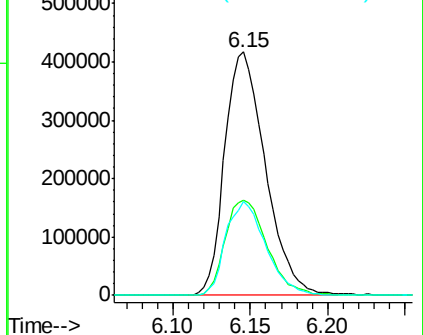
71 38.3 30.4 45.6



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: 9.069 ppbv

RT: 7.92 min Scan# 1549

Delta R.T. -0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

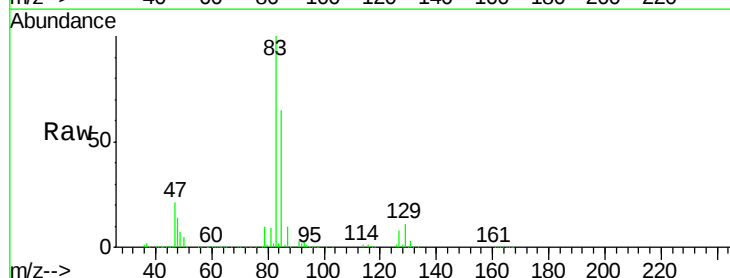
Tgt Ion: 83 Resp: 1746320

Ion Ratio Lower Upper

83 100

85 65.1 53.3 79.9

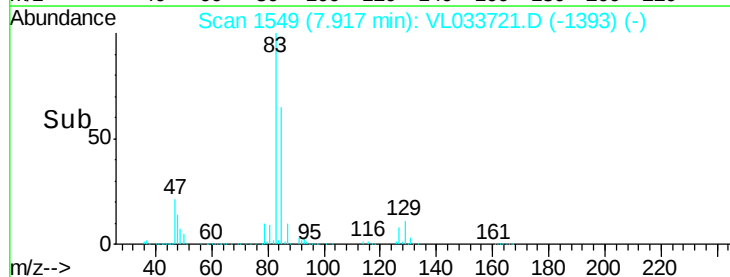
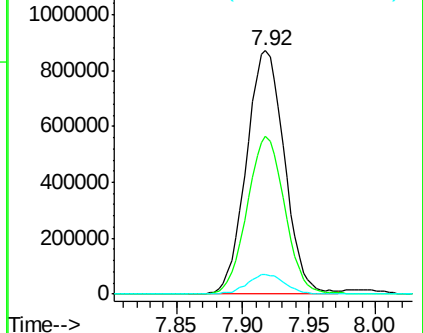
127 8.2 6.5 9.7

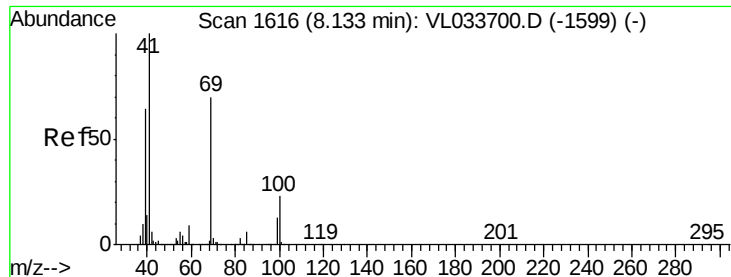


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

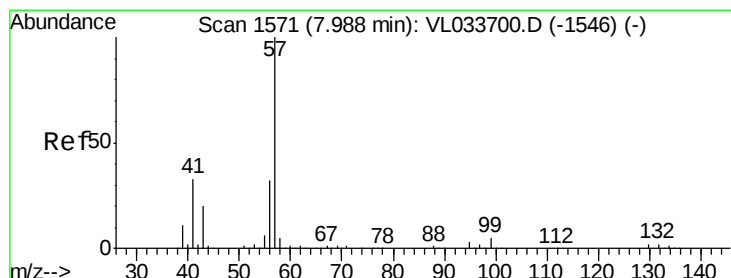
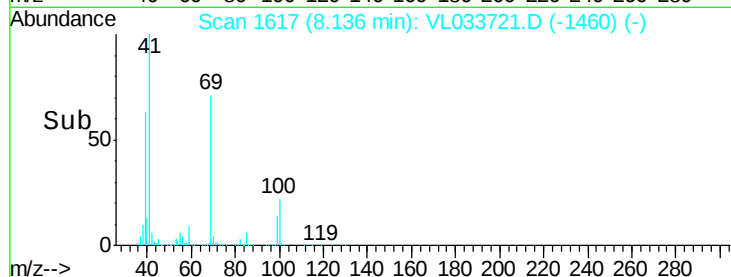
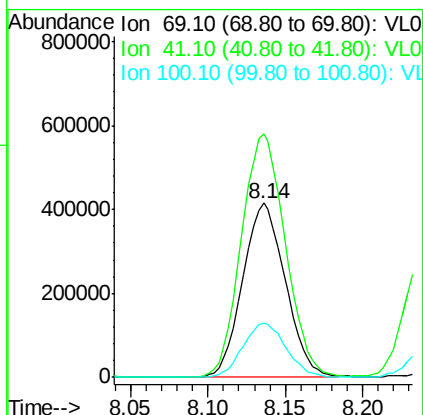
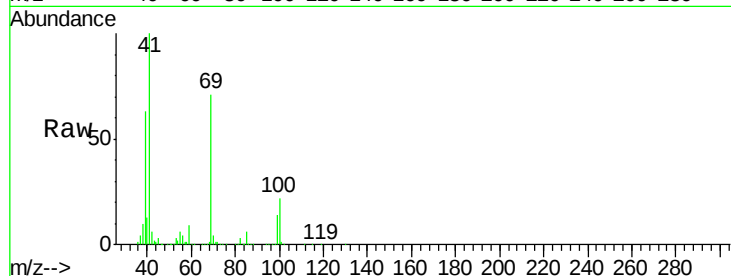




#43
Methvl Methacrilate
Concen: 9.924 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. 0.00 min
Lab File: VL033721.D
Acq: 20 May 2019 11:21

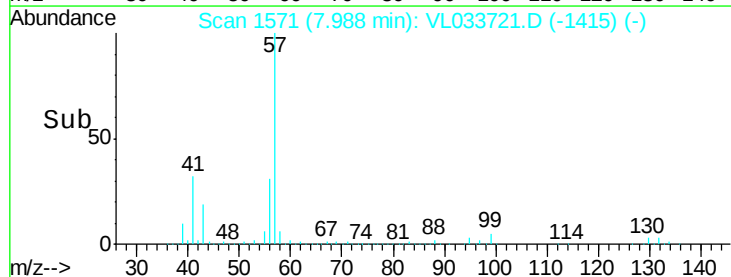
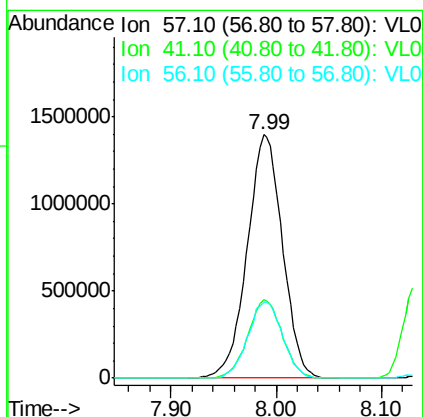
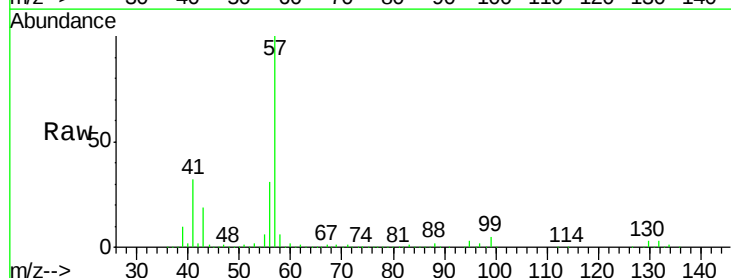
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

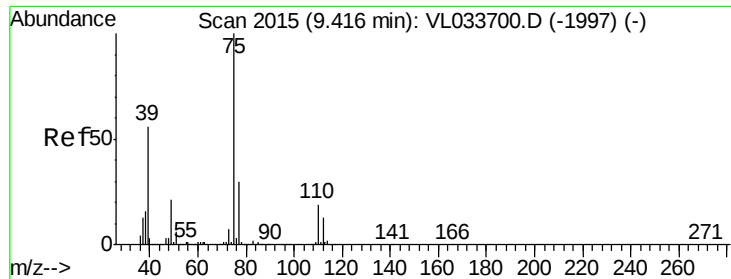
Tot Ion: 69 Resp: 796348
Ion Ratio Lower Upper
69 100
41 144.1 116.3 174.5
100 31.5 25.3 37.9



#44
2,2,4-Trimethylpentane
Concen: 8.820 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VL033721.D
Acq: 20 May 2019 11:21

Tgt Ion: 57 Resp: 3250311
Ion Ratio Lower Upper
57 100
41 31.5 25.4 38.0
56 30.9 24.7 37.1





#45

t-1,3-Dichloropropene

Concen: 10.943 ppbv

RT: 9.42 min Scan# 2015

Delta R.T. -0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

Instrument :

MSVOA_L

ClientSampleId :

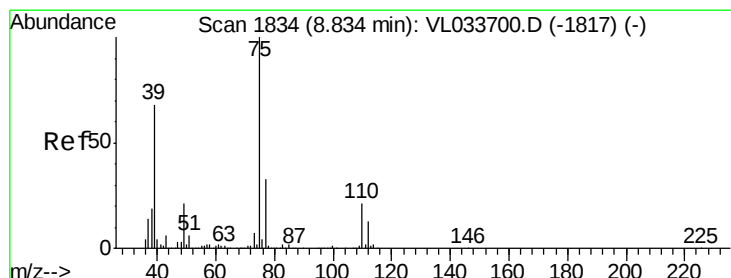
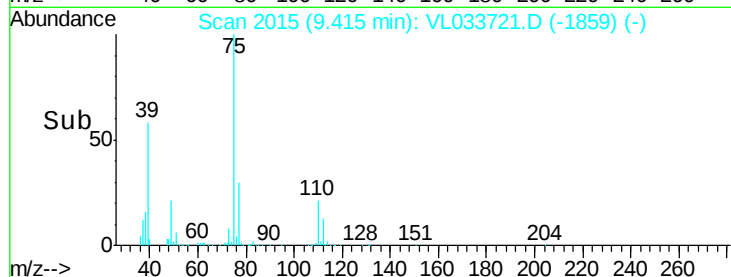
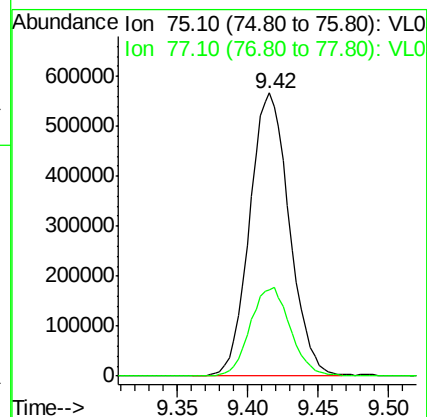
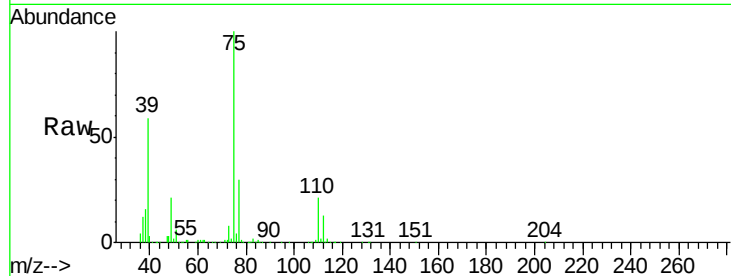
VSTDCCC010

Tot Ion: 75 Resp: 1113226

Ion Ratio Lower Upper

75 100

77 30.3 24.4 36.6



#46

cis-1,3-Dichloropropene

Concen: 10.263 ppbv

RT: 8.84 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

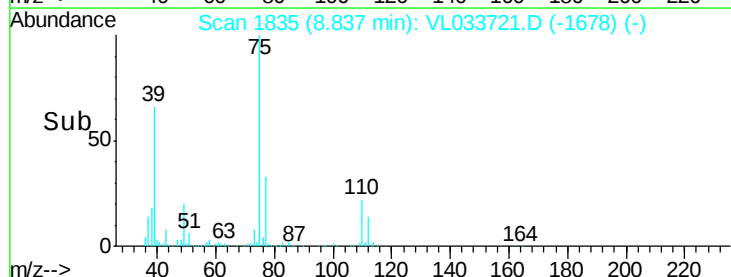
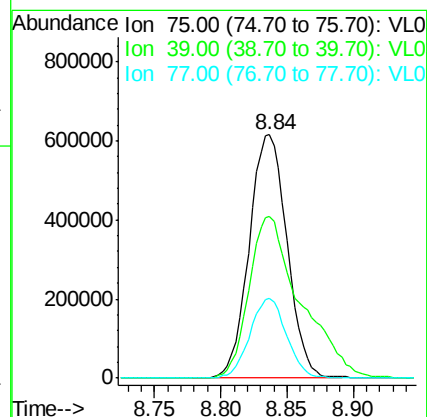
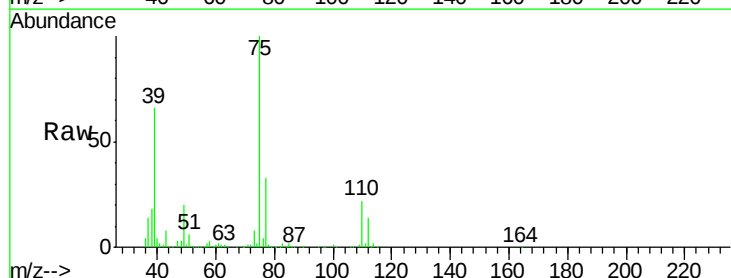
Tgt Ion: 75 Resp: 1222585

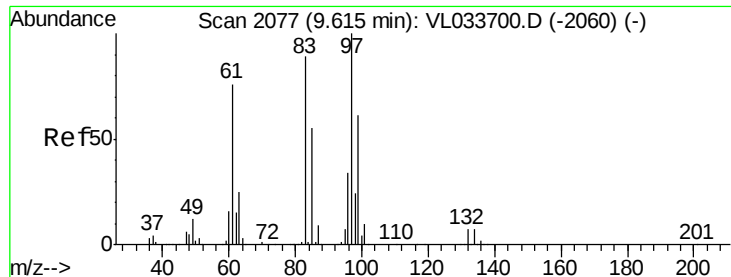
Ion Ratio Lower Upper

75 100

39 66.2 54.4 81.6

77 32.6 26.6 39.8

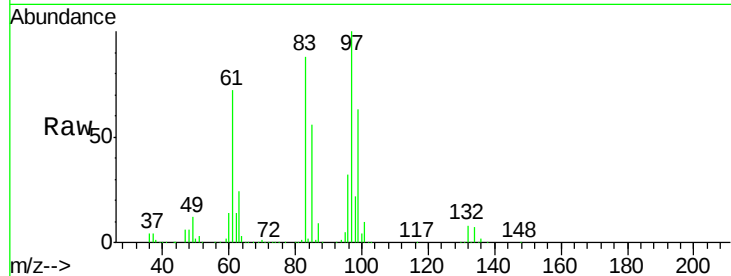




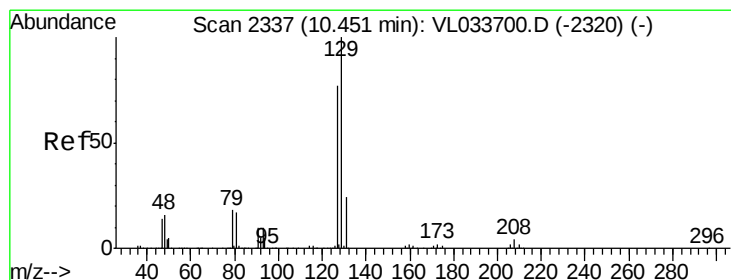
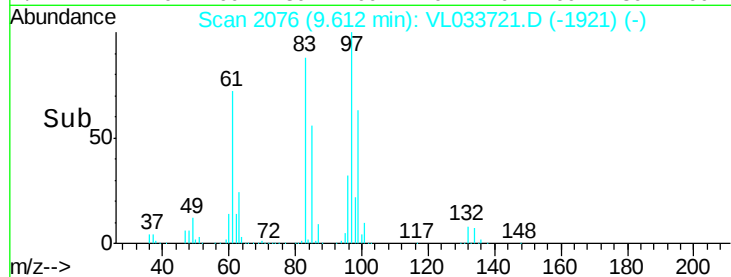
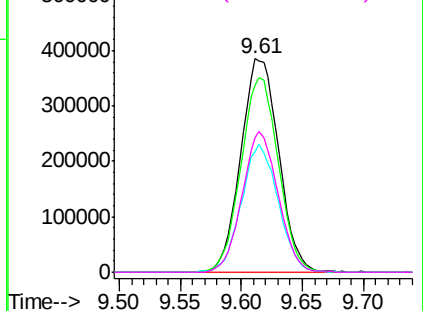
#47
 1,1,2-Trichloroethane
 Concen: 8.948 ppbv
 RT: 9.61 min Scan# 2076
 Delta R.T. -0.00 min
 Lab File: VL033721.D
 Acq: 20 May 2019 11:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 97 Resp: 826431
 Ion Ratio Lower Upper
 97 100
 83 87.6 70.8 106.2
 85 56.2 43.7 65.5
 99 62.7 48.7 73.1

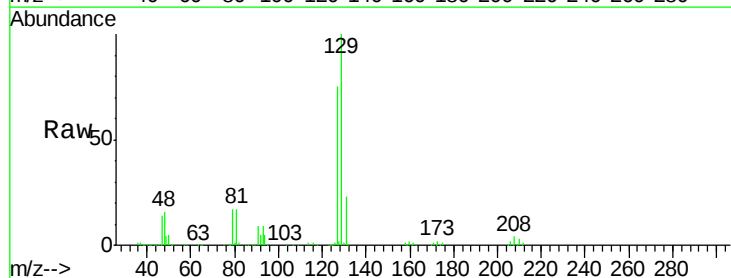


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

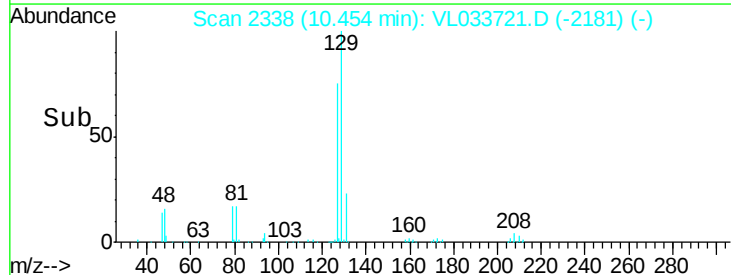
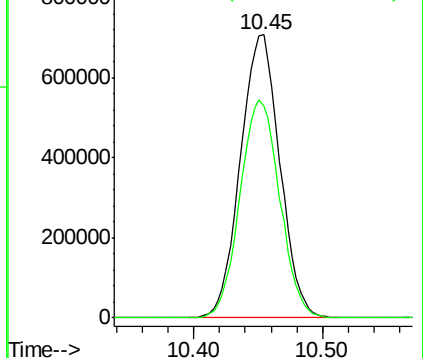


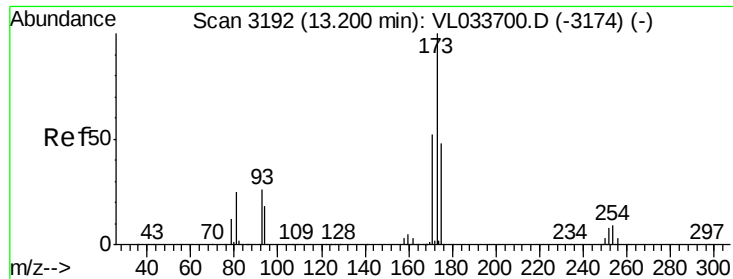
#48
 Dibromochloromethane
 Concen: 9.426 ppbv
 RT: 10.45 min Scan# 2338
 Delta R.T. 0.00 min
 Lab File: VL033721.D
 Acq: 20 May 2019 11:21

Tgt Ion: 129 Resp: 1508441
 Ion Ratio Lower Upper
 129 100
 127 77.5 38.6 116.0



Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.054 ppbv

RT: 13.20 min Scan# 3193

Delta R.T. 0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

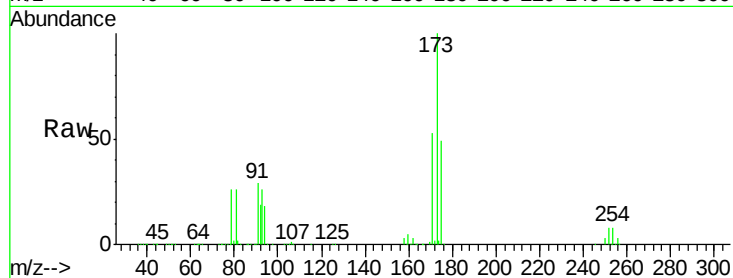
Tot Ion:173 Resp: 1353730

Ion Ratio Lower Upper

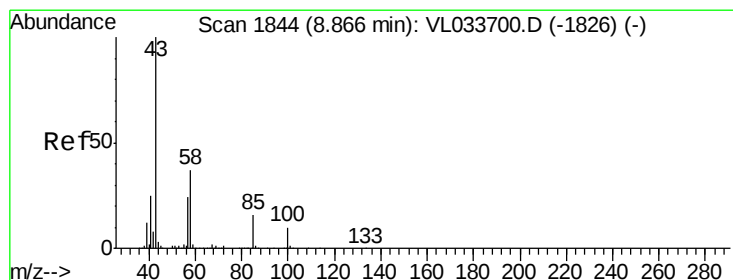
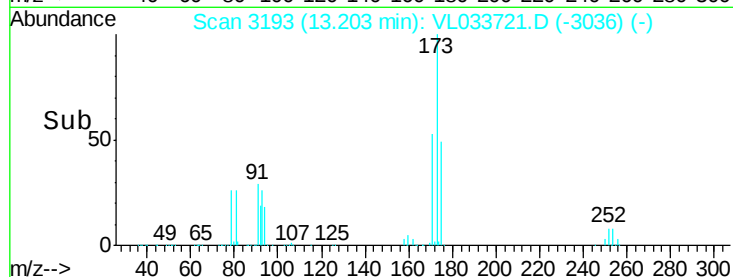
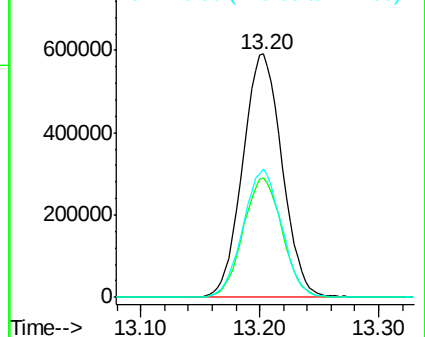
173 100

175 48.9 38.6 58.0

171 51.8 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: 9.067 ppbv

RT: 8.87 min Scan# 1845

Delta R.T. 0.00 min

Lab File: VL033721.D

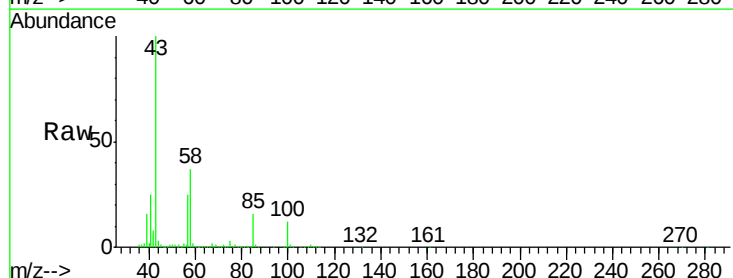
Acq: 20 May 2019 11:21

Tgt Ion: 43 Resp: 2072087

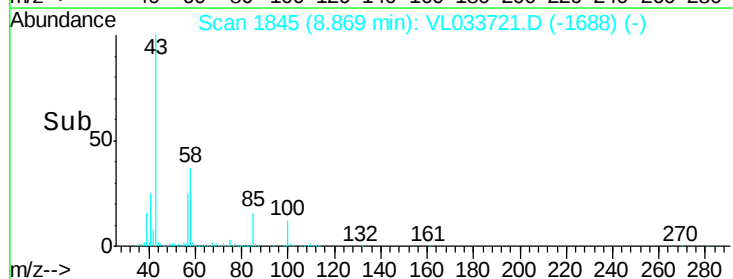
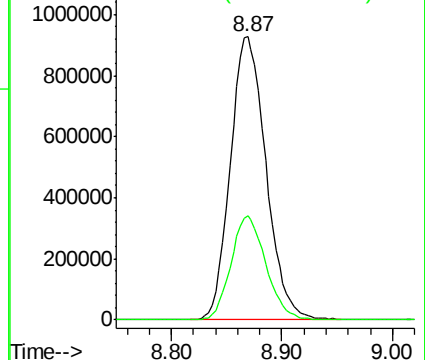
Ion Ratio Lower Upper

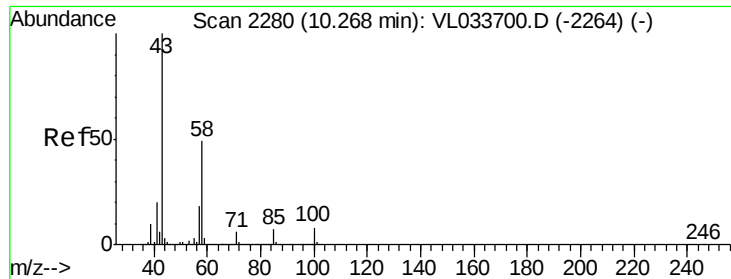
43 100

58 36.2 28.6 43.0



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0

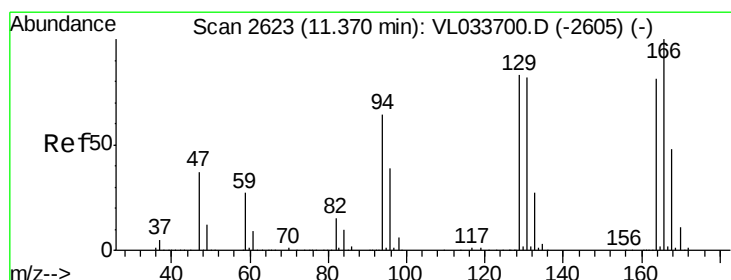
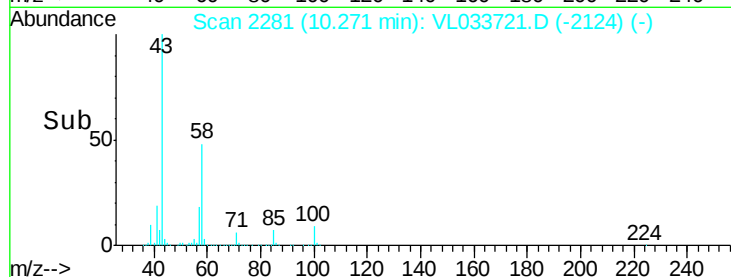
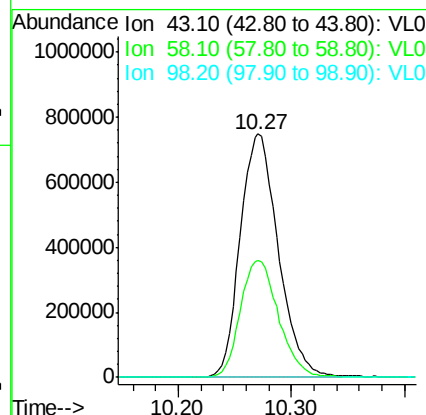
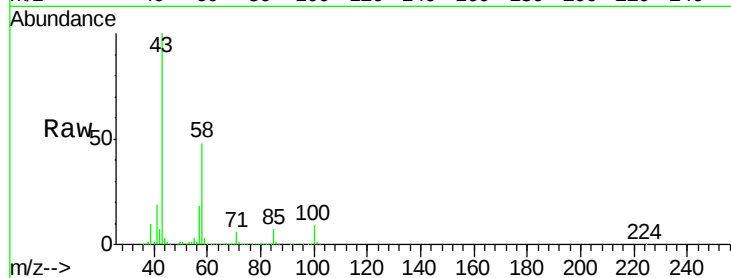




#51
2-Hexanone
Concen: 9.823 ppbv
RT: 10.27 min Scan# 2281
Delta R.T. 0.00 min
Lab File: VL033721.D
Acq: 20 May 2019 11:21

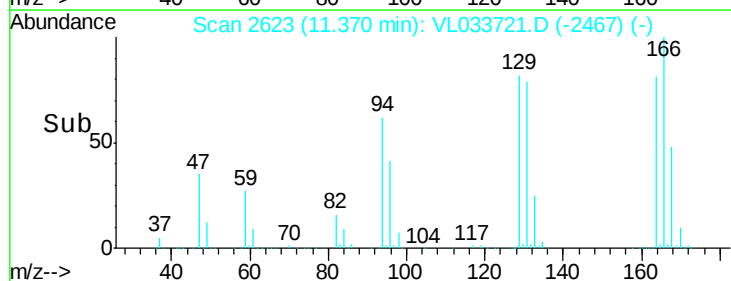
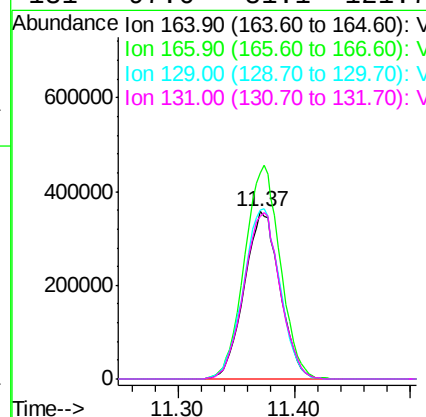
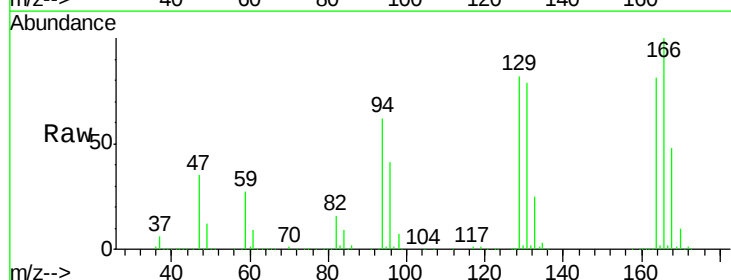
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

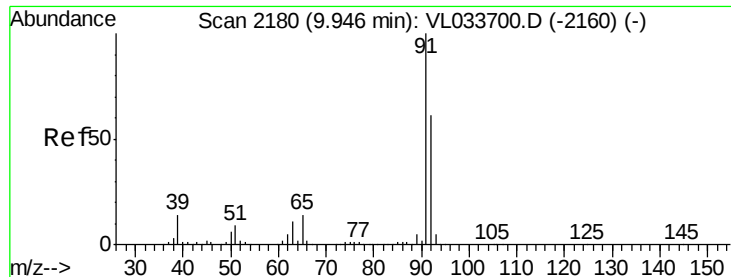
Tot Ion: 43 Resp: 1752072
Ion Ratio Lower Upper
43 100
58 48.4 38.7 58.1
98 0.3 0.2 0.4



#52
Tetrachloroethene
Concen: 9.940 ppbv
RT: 11.37 min Scan# 2623
Delta R.T. -0.00 min
Lab File: VL033721.D
Acq: 20 May 2019 11:21

Tgt Ion: 164 Resp: 761883
Ion Ratio Lower Upper
164 100
166 123.5 98.9 148.3
129 100.9 81.8 122.6
131 97.6 81.1 121.7





#53

Toluene

Concen: 9.917 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

Instrument :

MSVOA_L

ClientSampleId :

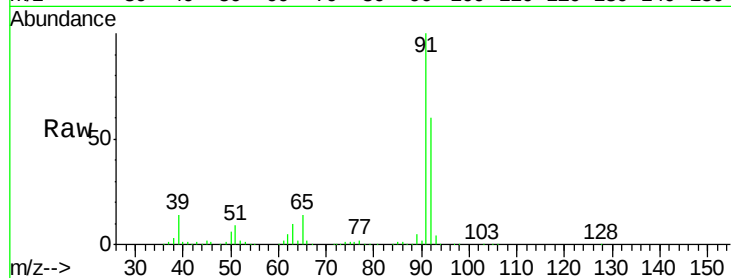
VSTDCCC010

Tot Ion: 91 Resp: 2332469

Ion Ratio Lower Upper

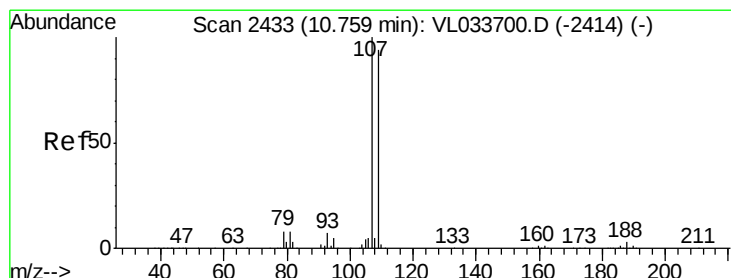
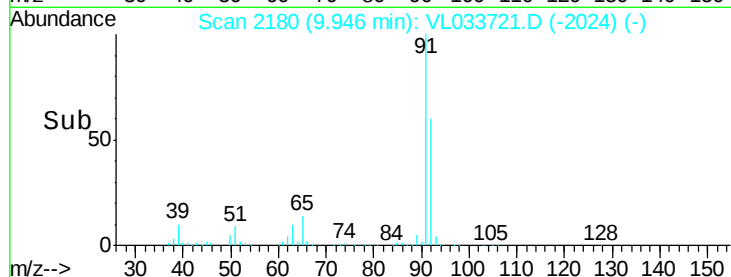
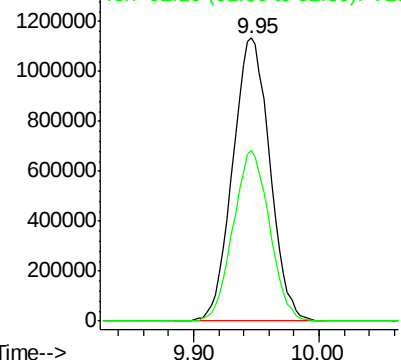
91 100

92 59.1 47.6 71.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 9.508 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. 0.00 min

Lab File: VL033721.D

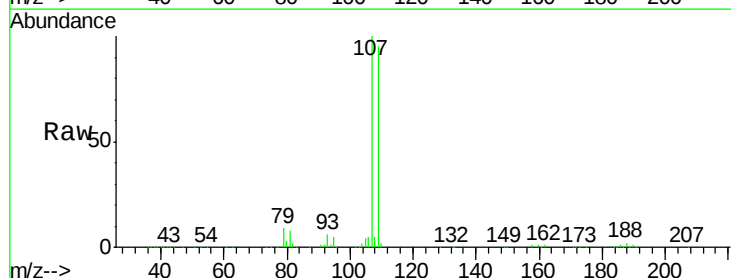
Acq: 20 May 2019 11:21

Tgt Ion:107 Resp: 1340109

Ion Ratio Lower Upper

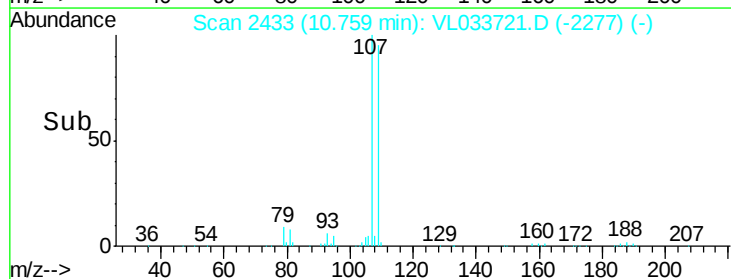
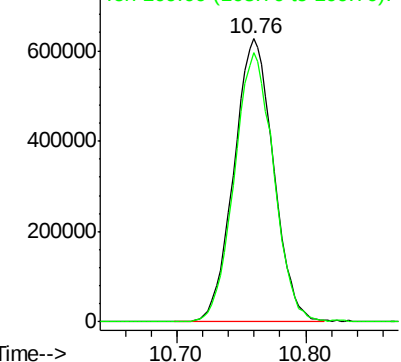
107 100

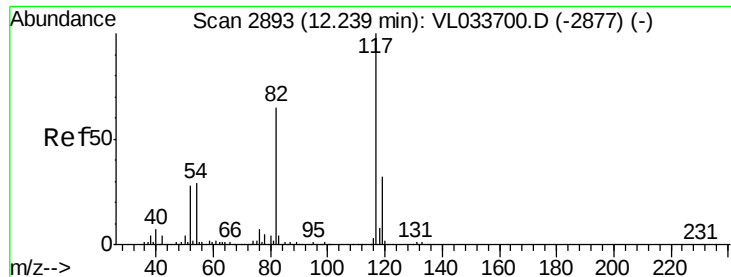
109 95.3 75.2 112.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

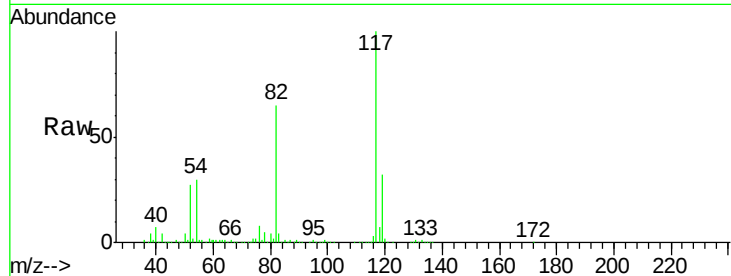




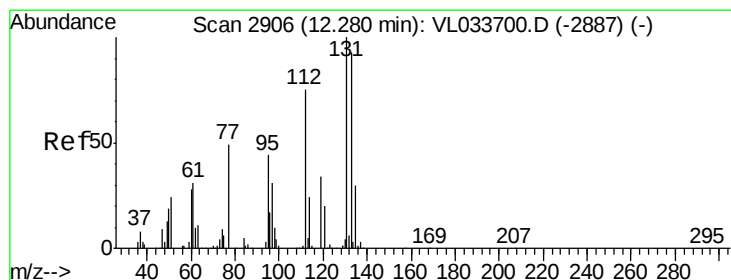
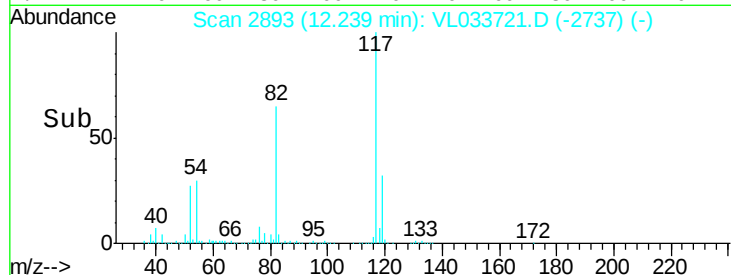
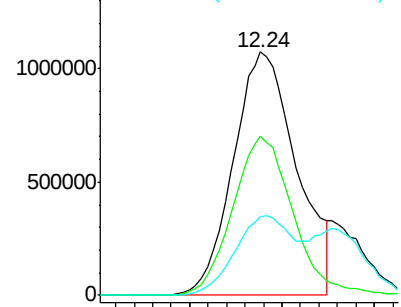
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.24 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL033721.D
Acq: 20 May 2019 11:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:117 Resp: 2553360
Ion Ratio Lower Upper
117 100
82 62.6 49.4 74.0
119 54.1 24.9 37.3#

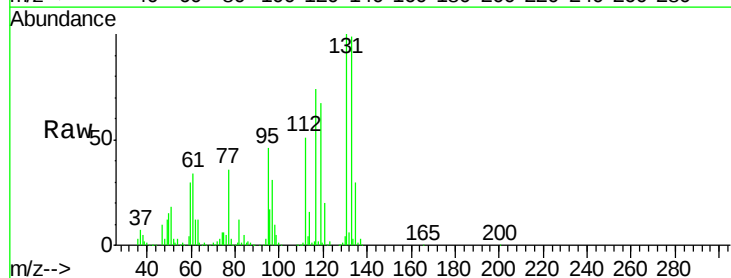


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

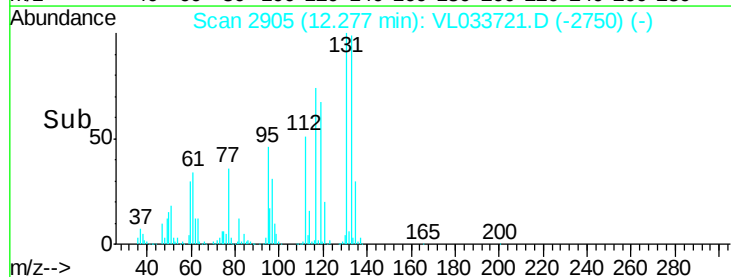
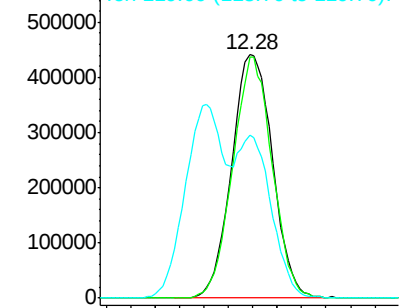


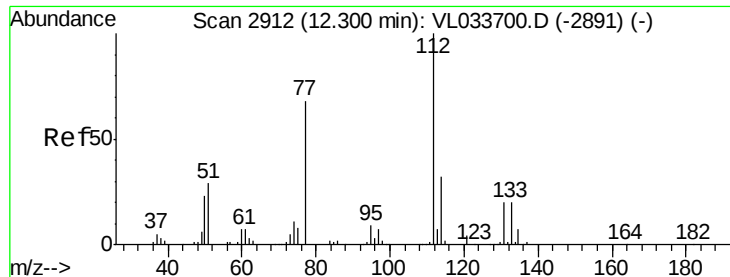
#56
1,1,1,2-Tetrachloroethane
Concen: 8.641 ppbv
RT: 12.28 min Scan# 2905
Delta R.T. -0.00 min
Lab File: VL033721.D
Acq: 20 May 2019 11:21

Tgt Ion:131 Resp: 1020966
Ion Ratio Lower Upper
131 100
133 95.6 76.6 114.8
119 59.2 49.0 73.4



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

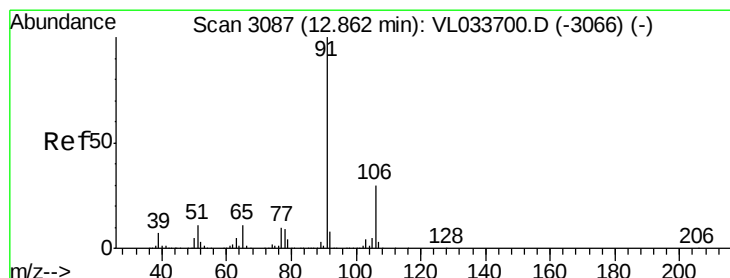
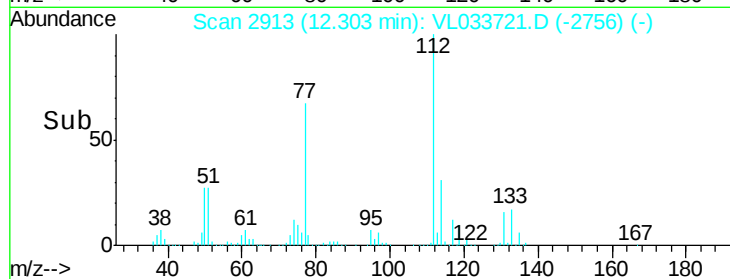
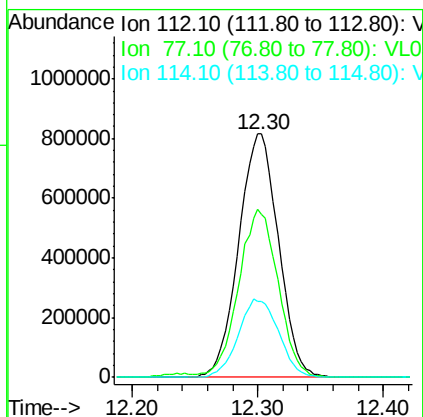
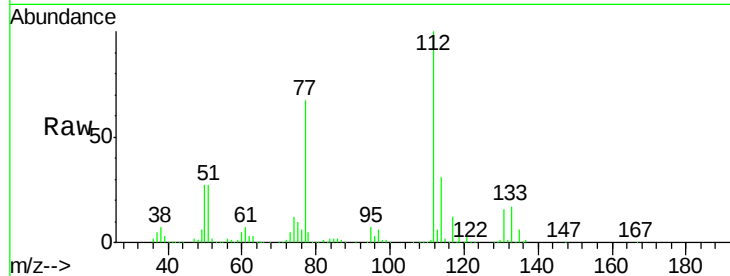




#57
Chlorobenzene
Concen: 8.536 ppbv
RT: 12.30 min Scan# 2913
Delta R.T. 0.00 min
Lab File: VL033721.D
Acq: 20 May 2019 11:21

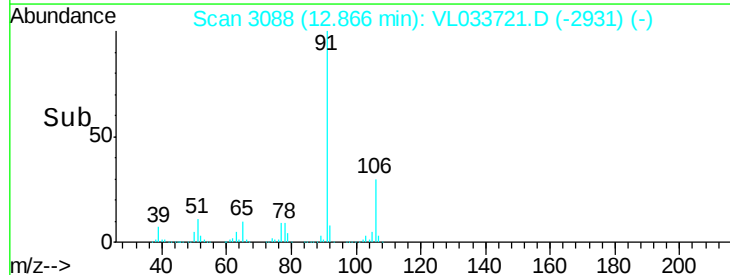
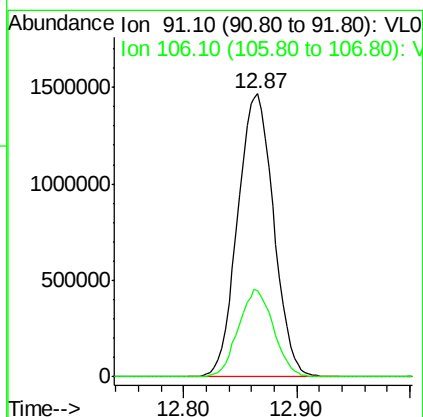
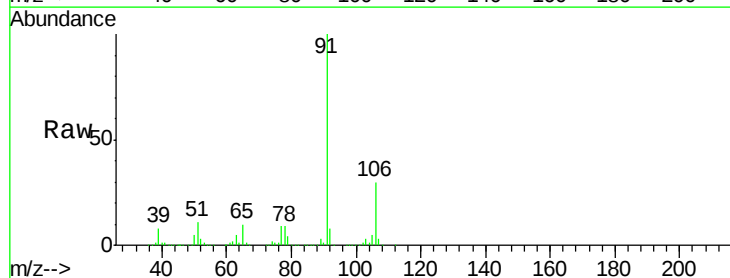
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

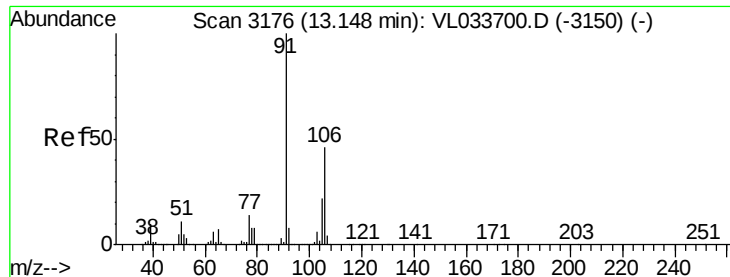
Tot Ion:112 Resp: 1794070
Ion Ratio Lower Upper
112 100
77 66.8 55.4 83.0
114 30.9 29.3 35.8



#58
Ethyl Benzene
Concen: 9.607 ppbv
RT: 12.87 min Scan# 3088
Delta R.T. 0.00 min
Lab File: VL033721.D
Acq: 20 May 2019 11:21

Tgt Ion: 91 Resp: 3248279
Ion Ratio Lower Upper
91 100
106 30.3 23.9 35.9

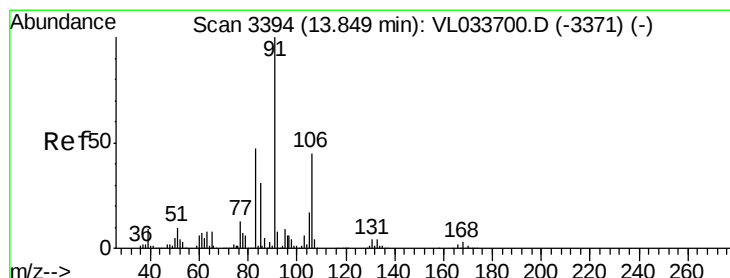
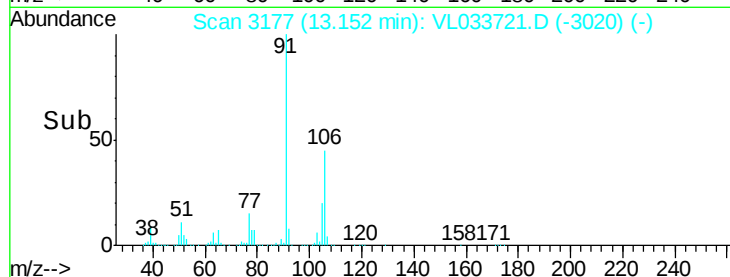
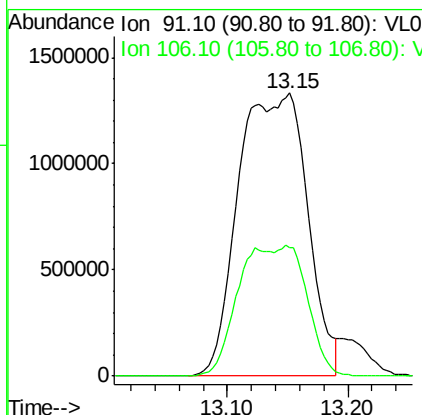
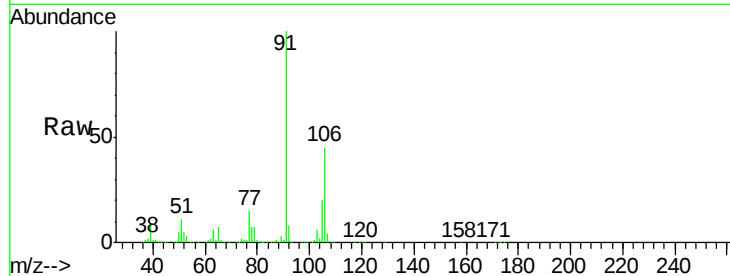




#59
m/p-Xylene
Concen: 18.017 ppbv m
RT: 13.15 min Scan# 3177
Delta R.T. 0.00 min
Lab File: VL033721.D
Acq: 20 May 2019 11:21

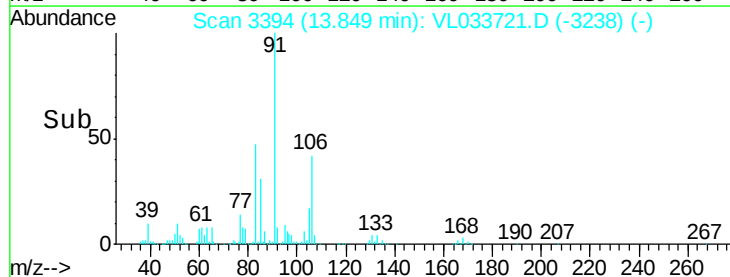
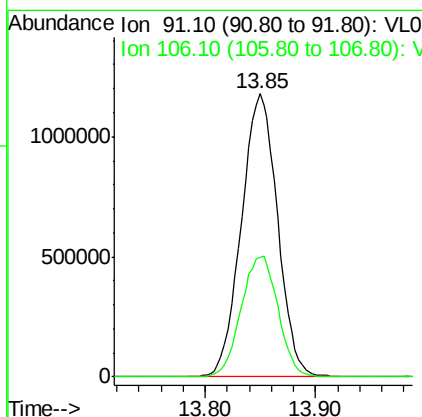
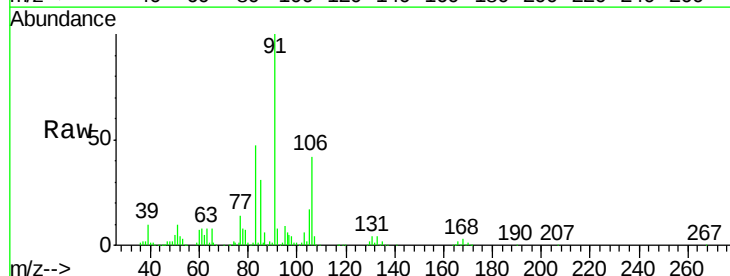
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

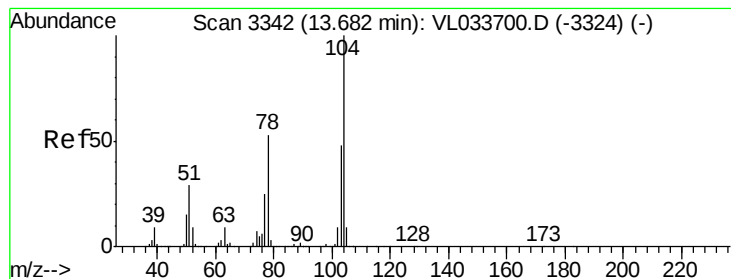
Tot Ion: 91 Resp: 5325508
Ion Ratio Lower Upper
91 100
106 45.7 35.8 53.6



#60
o-Xylene
Concen: 8.980 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. -0.00 min
Lab File: VL033721.D
Acq: 20 May 2019 11:21

Tgt Ion: 91 Resp: 2675763
Ion Ratio Lower Upper
91 100
106 43.6 21.6 64.8





#61

Stvrene

Concen: 10.283 ppbv

RT: 13.69 min Scan# 3343

Delta R.T. 0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

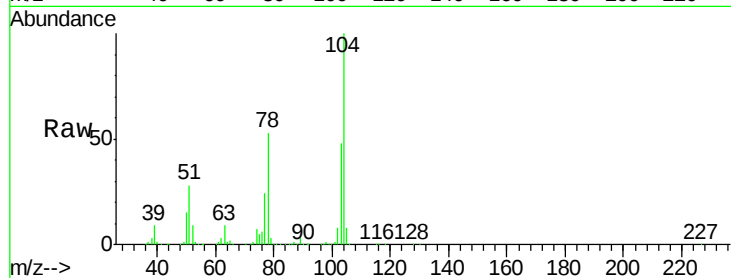
Tot Ion:104 Resp: 2062859

Ion Ratio Lower Upper

104 100

78 52.7 42.6 64.0

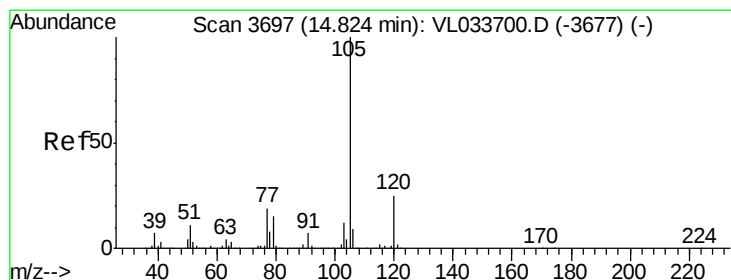
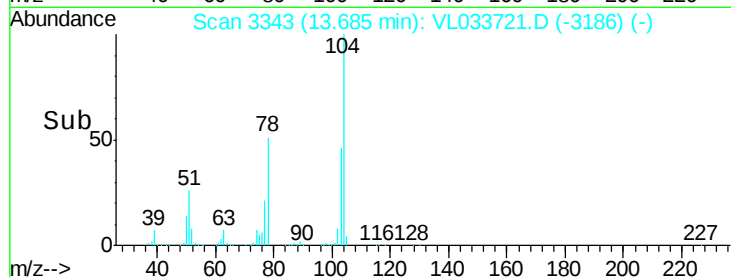
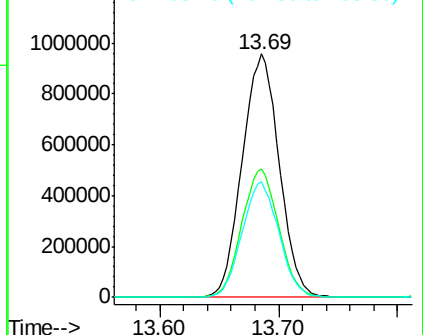
103 47.3 37.8 56.6



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: 9.137 ppbv

RT: 14.82 min Scan# 3697

Delta R.T. -0.00 min

Lab File: VL033721.D

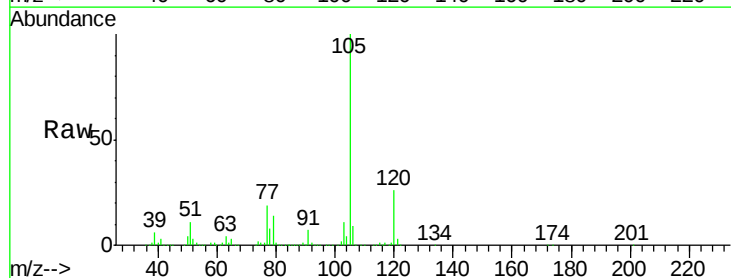
Acq: 20 May 2019 11:21

Tgt Ion:105 Resp: 3666174

Ion Ratio Lower Upper

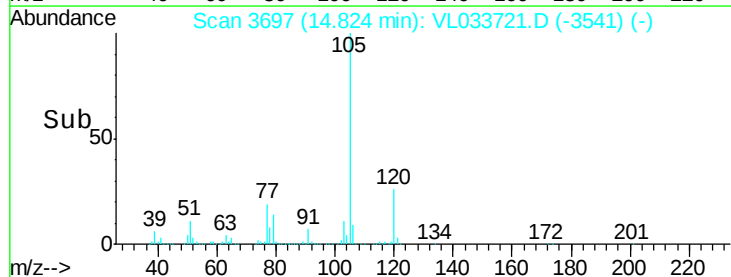
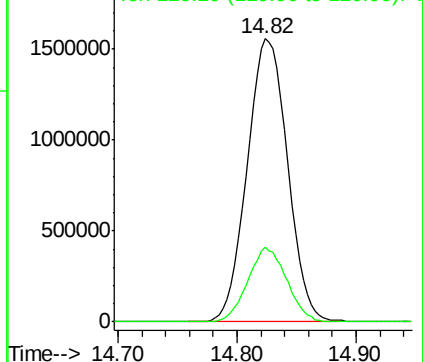
105 100

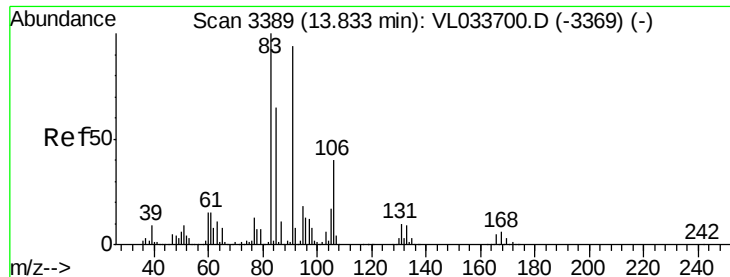
120 25.3 20.1 30.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

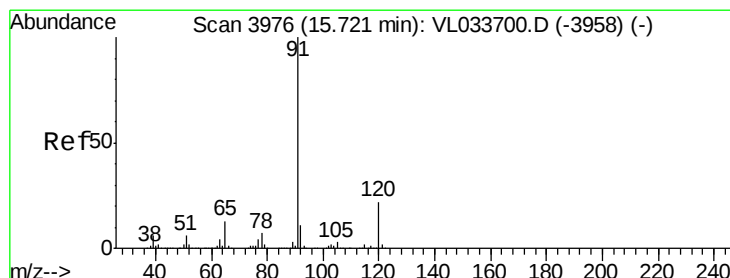
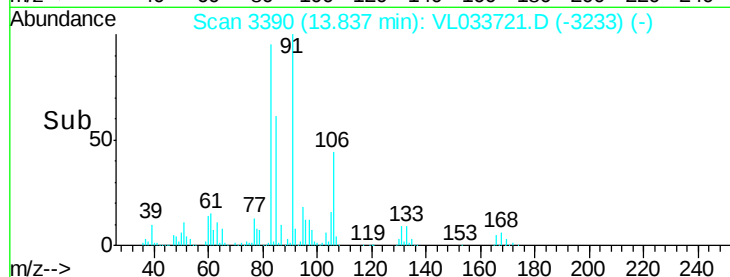
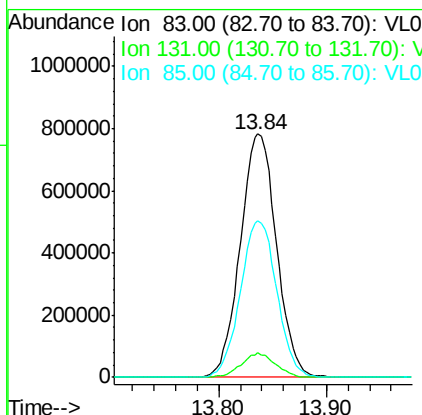
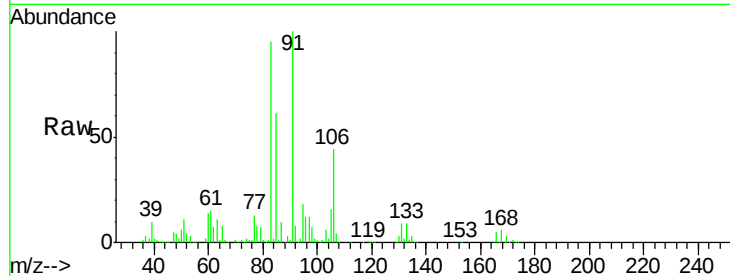




#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.429 ppbv
 RT: 13.84 min Scan# 3390
 Delta R.T. 0.00 min
 Lab File: VL033721.D
 Acq: 20 May 2019 11:21

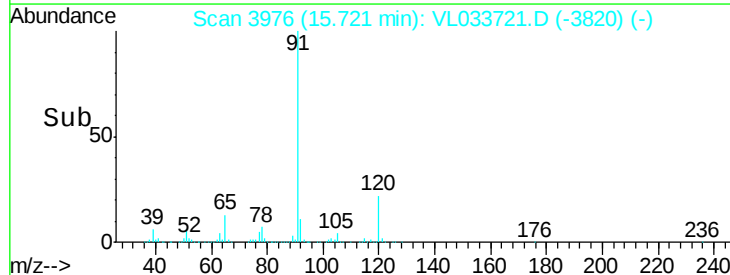
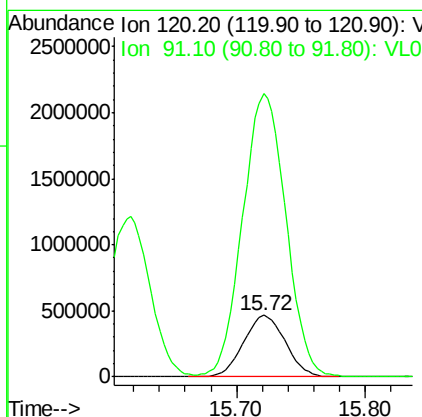
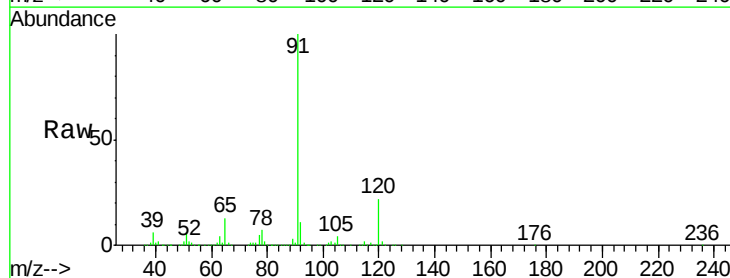
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

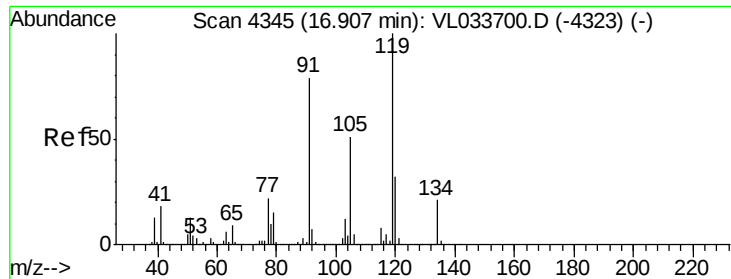
Tot Ion: 83 Resp: 1826374
 Ion Ratio Lower Upper
 83 100
 131 9.5 4.8 14.3
 85 64.8 32.3 96.9



#64
 n-propylbenzene
 Concen: 10.188 ppbv
 RT: 15.72 min Scan# 3976
 Delta R.T. 0.00 min
 Lab File: VL033721.D
 Acq: 20 May 2019 11:21

Tgt Ion:120 Resp: 1057470
 Ion Ratio Lower Upper
 120 100
 91 474.8 379.1 568.7

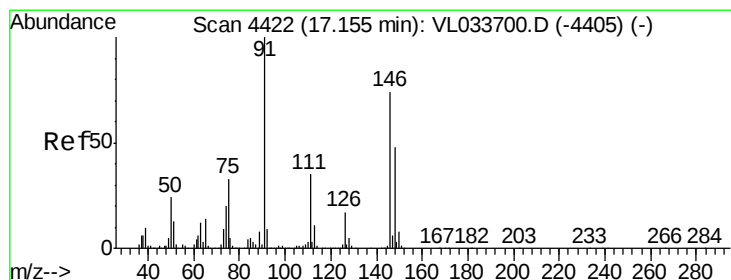
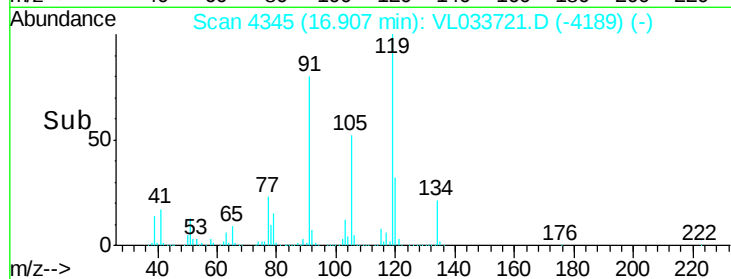
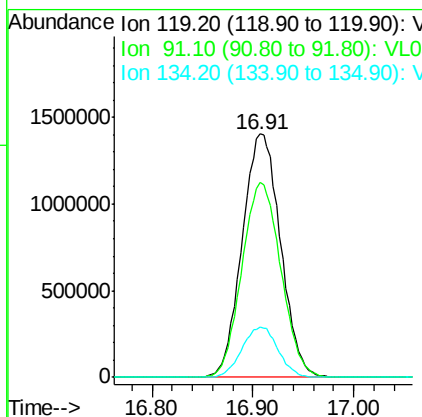
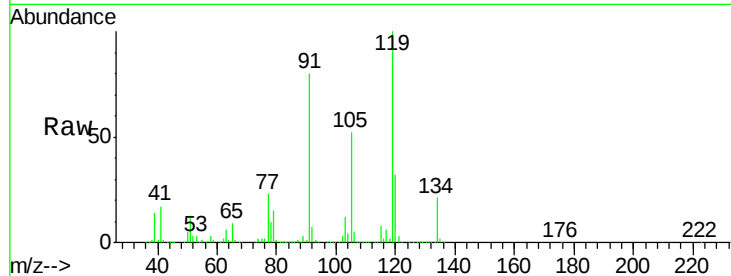




#65
 tert-Butylbenzene
 Concen: 10.072 ppbv
 RT: 16.91 min Scan# 4345
 Delta R.T. 0.00 min
 Lab File: VL033721.D
 Acq: 20 May 2019 11:21

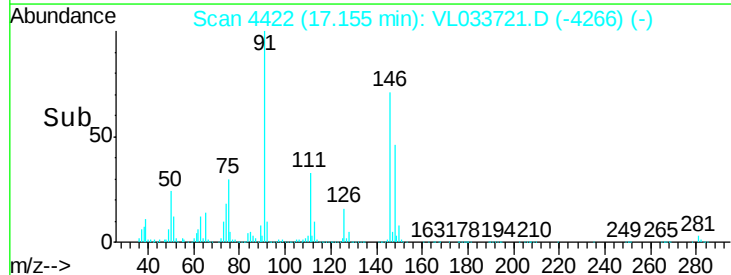
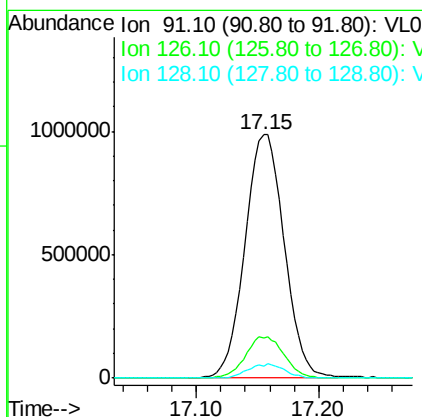
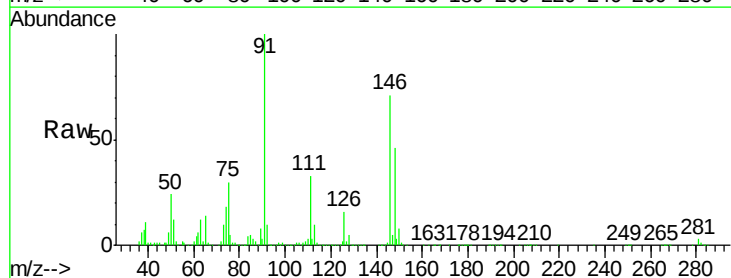
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

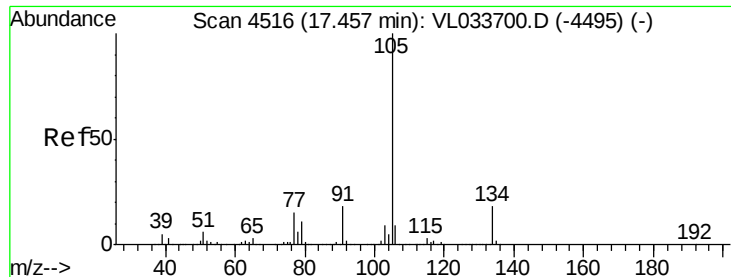
Tot Ion:119 Resp: 3690097
 Ion Ratio Lower Upper
 119 100
 91 81.7 65.3 97.9
 134 19.5 15.7 23.5



#66
 Benzyl Chloride
 Concen: 12.549 ppbv
 RT: 17.15 min Scan# 4422
 Delta R.T. -0.00 min
 Lab File: VL033721.D
 Acq: 20 May 2019 11:21

Tgt Ion: 91 Resp: 2189758
 Ion Ratio Lower Upper
 91 100
 126 16.7 13.5 20.3
 128 5.6 4.3 6.5





#67

sec-Butylbenzene

Concen: 10.121 ppbv

RT: 17.46 min Scan# 4516

Delta R.T. 0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

Instrument :

MSVOA_L

ClientSampleId :

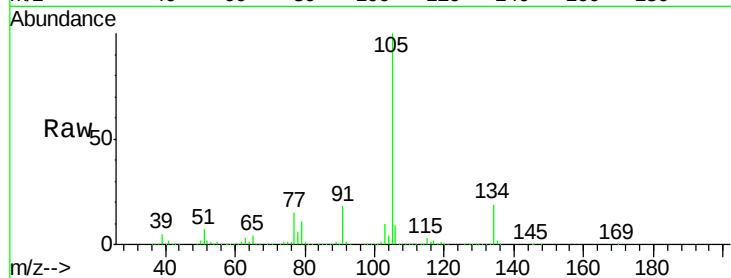
VSTDCCC010

Tot Ion:105 Resp: 5189840

Ion Ratio Lower Upper

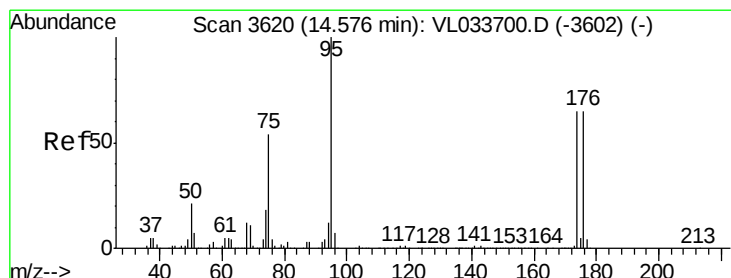
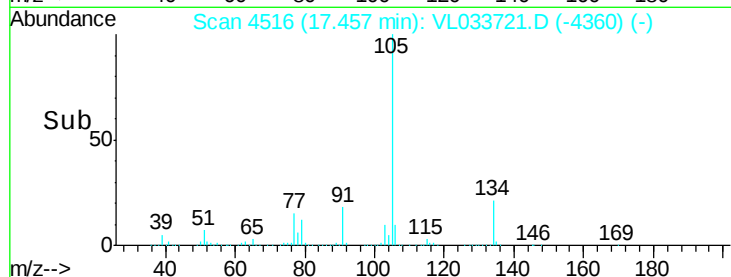
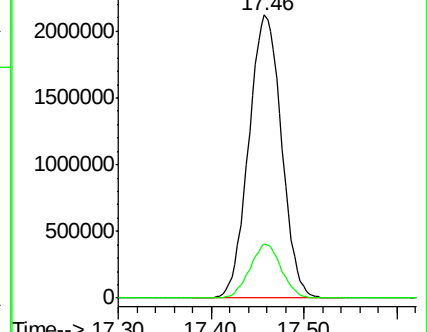
105 100

134 18.4 14.6 22.0



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: 9.566 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. 0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

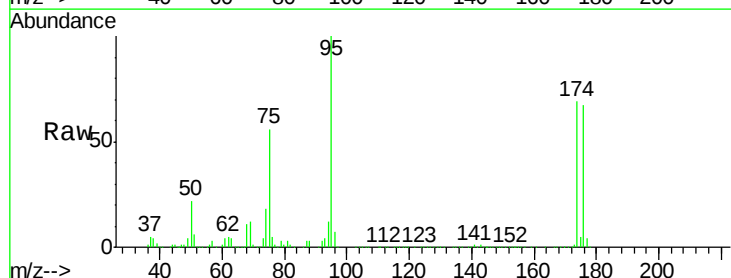
Tgt Ion: 95 Resp: 1980032

Ion Ratio Lower Upper

95 100

174 67.8 53.9 80.9

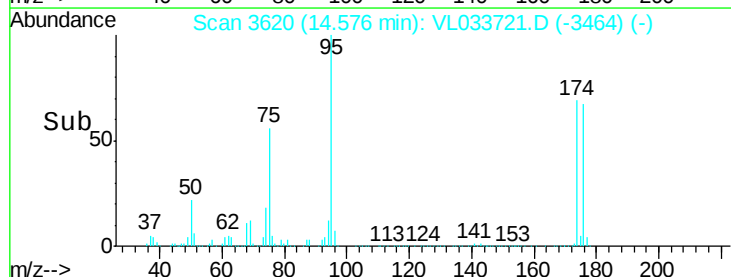
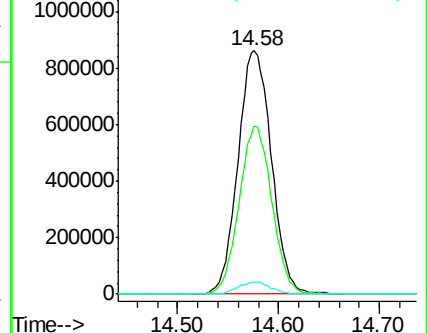
175 4.9 3.8 5.8

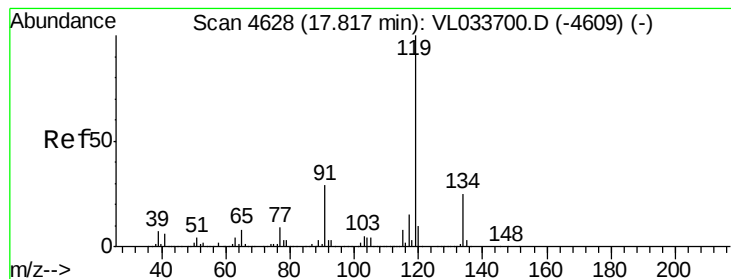


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 10.247 ppbv

RT: 17.81 min Scan# 4627

Delta R.T. -0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

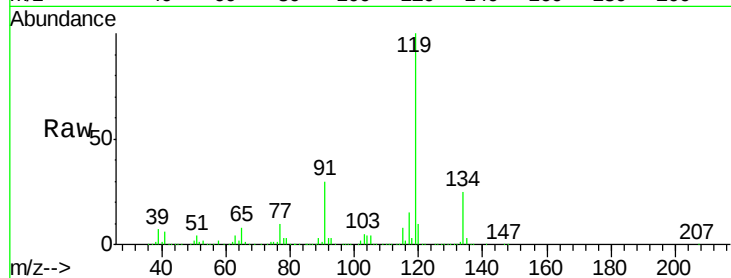
Tot Ion:119 Resp: 4342807

Ion Ratio Lower Upper

119 100

134 25.4 20.3 30.5

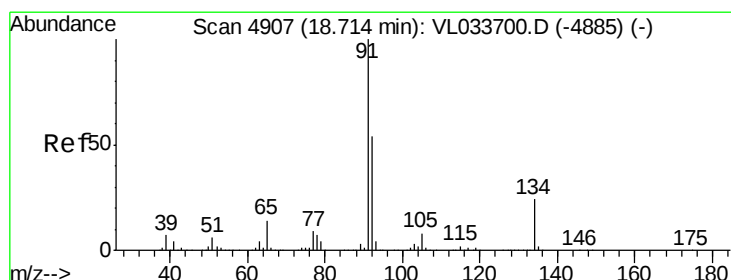
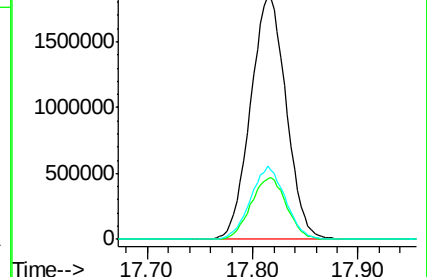
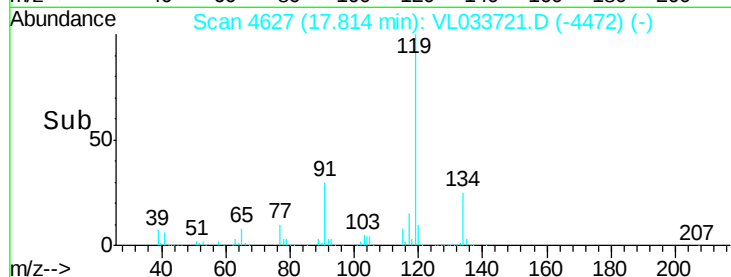
91 29.2 23.1 34.7



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: 9.939 ppbv

RT: 18.71 min Scan# 4906

Delta R.T. -0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

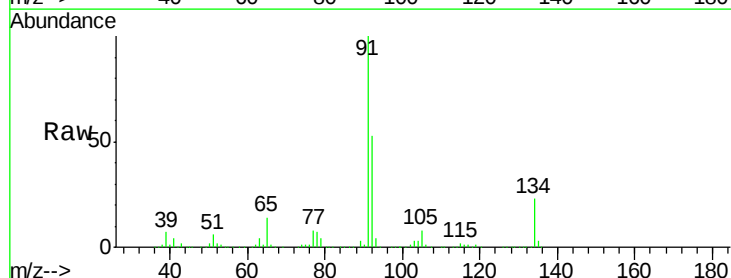
Tgt Ion: 91 Resp: 4517179

Ion Ratio Lower Upper

91 100

92 53.3 42.6 63.8

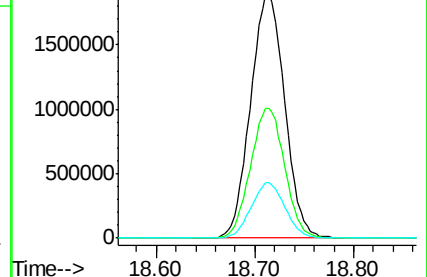
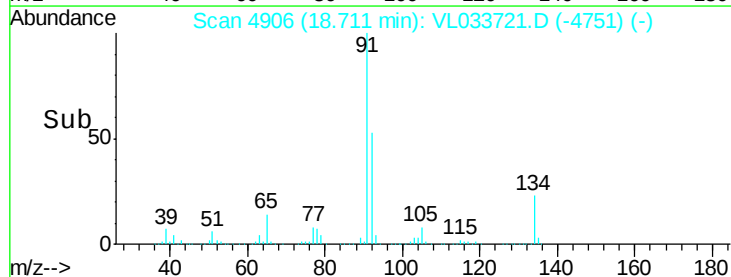
134 22.5 18.1 27.1

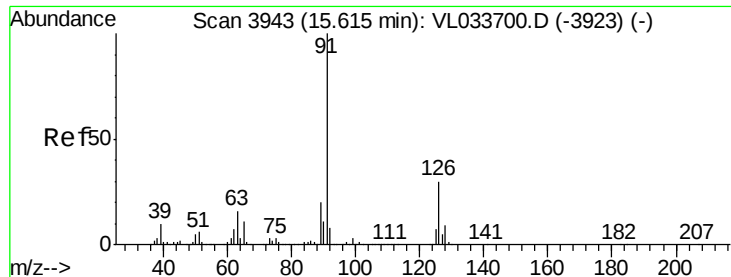


Abundance Ion 91.10 (90.80 to 91.80): V

Ion 92.10 (91.80 to 92.80): V

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 9.368 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. 0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

Instrument :

MSVOA_L

ClientSampleId :

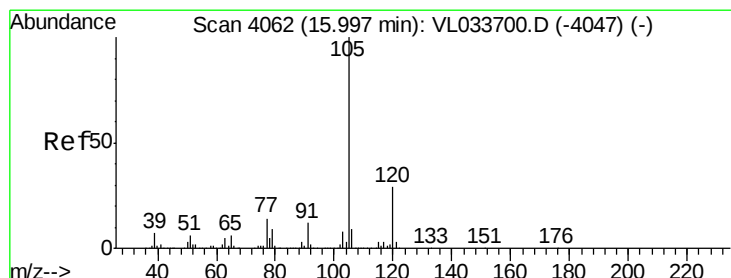
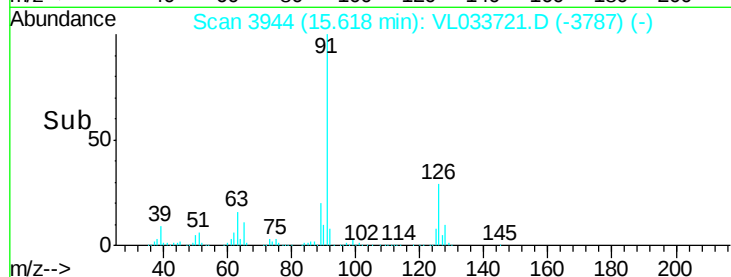
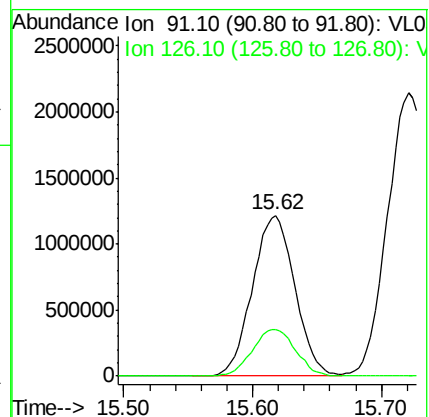
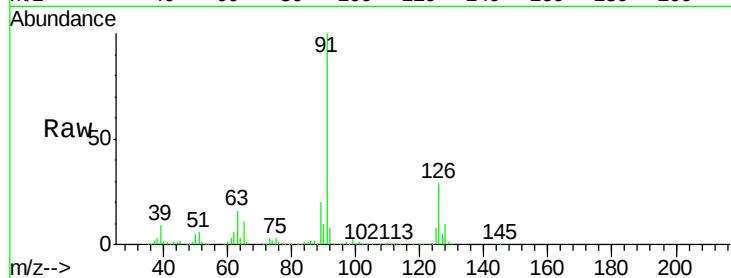
VSTDCCC010

Tot Ion: 91 Resp: 2788973

Ion Ratio Lower Upper

91 100

126 29.8 12.0 47.8



#72

4-Ethyltoluene

Concen: 10.430 ppbv

RT: 16.00 min Scan# 4063

Delta R.T. 0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

Tgt Ion: 105 Resp: 3553294

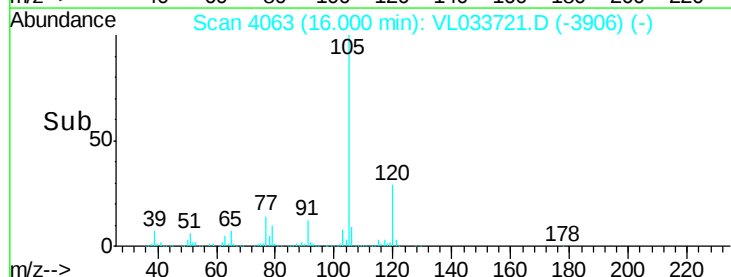
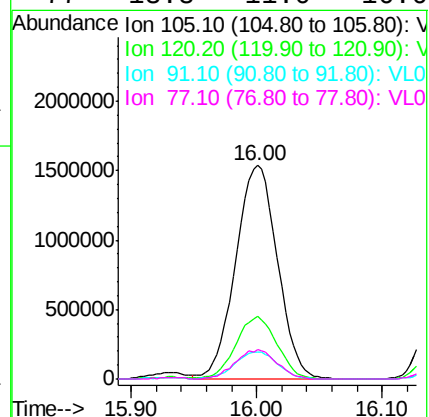
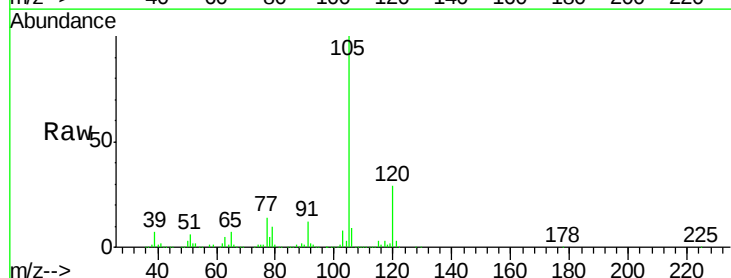
Ion Ratio Lower Upper

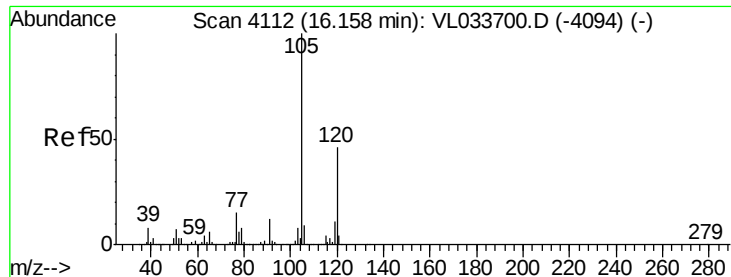
105 100

120 29.0 23.1 34.7

91 12.8 10.4 15.6

77 13.8 11.0 16.6





#73

1,3,5-Trimethylbenzene

Concen: 10.081 ppbv

RT: 16.16 min Scan# 4112

Delta R.T. 0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

Instrument :

MSVOA_L

ClientSampleId :

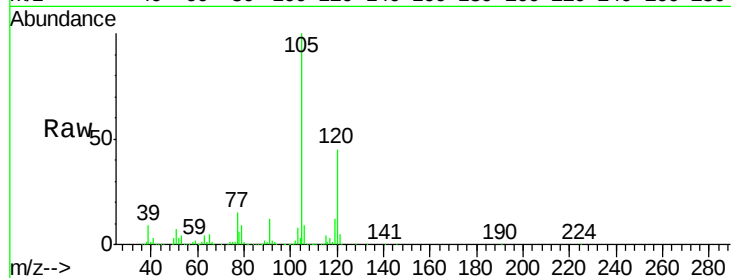
VSTDCCC010

Tot Ion:105 Resp: 3350999

Ion Ratio Lower Upper

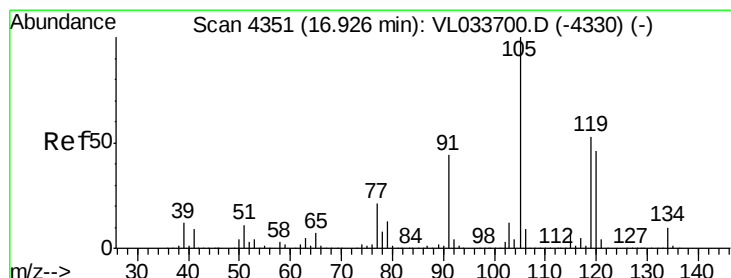
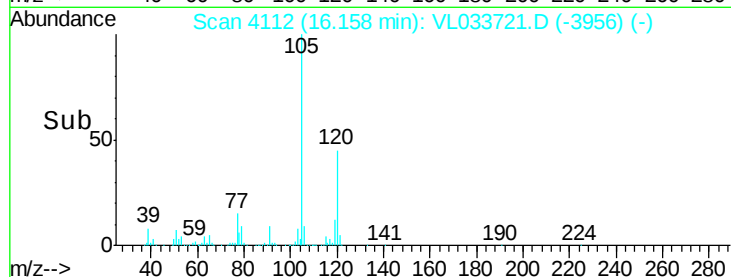
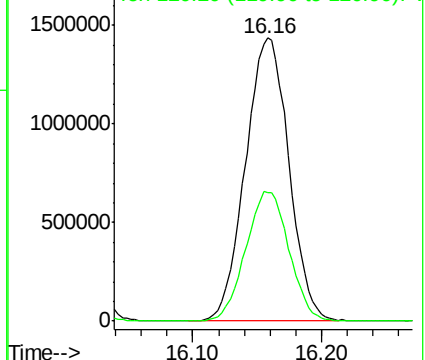
105 100

120 45.1 37.0 55.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 9.726 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. -0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

Tgt Ion:105 Resp: 3518304

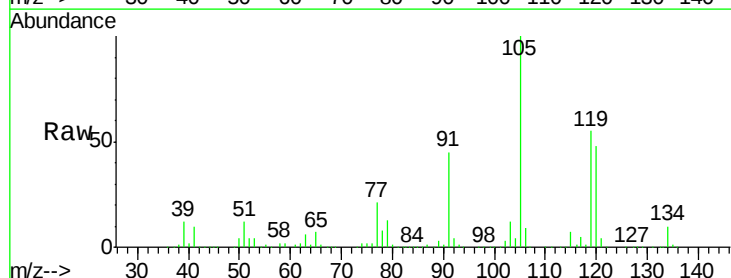
Ion Ratio Lower Upper

105 100

120 47.7 36.8 55.2

91 44.5 35.4 53.0

77 21.1 16.8 25.2

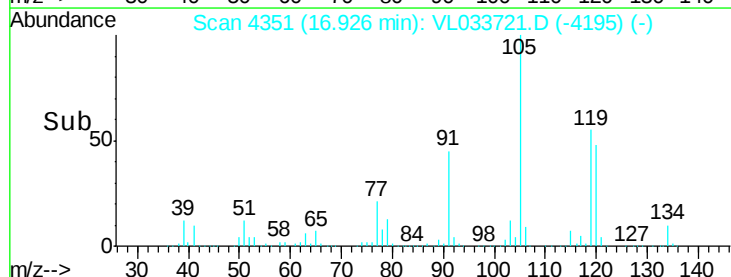
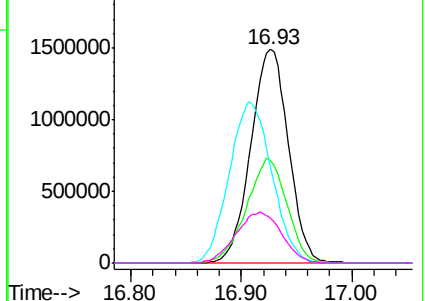


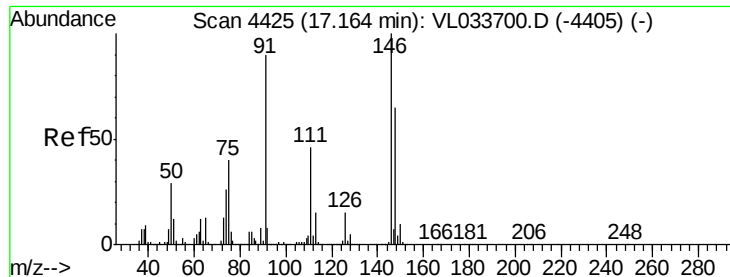
Abundance Ion 105.10 (104.80 to 105.80): V

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





#75

1,3-Dichlorobenzene

Concen: 9.346 ppbv

RT: 17.16 min Scan# 4425

Delta R.T. -0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

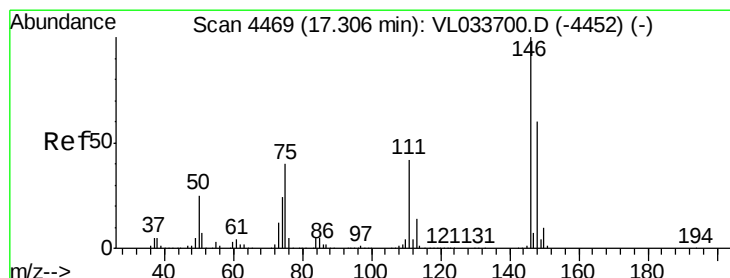
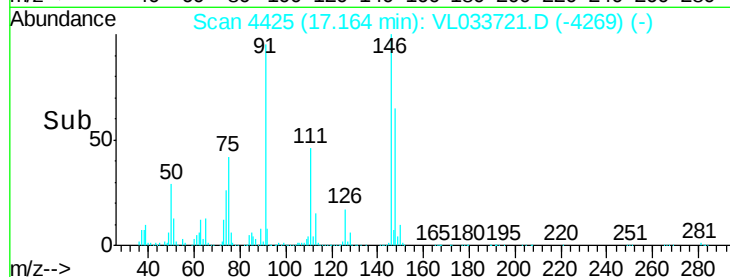
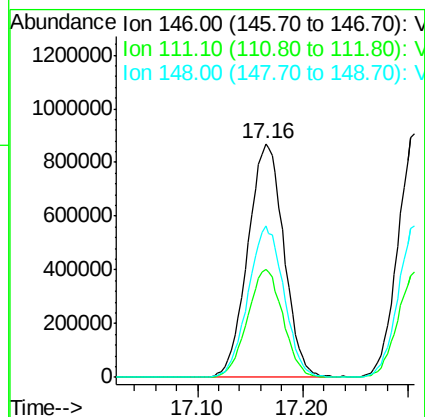
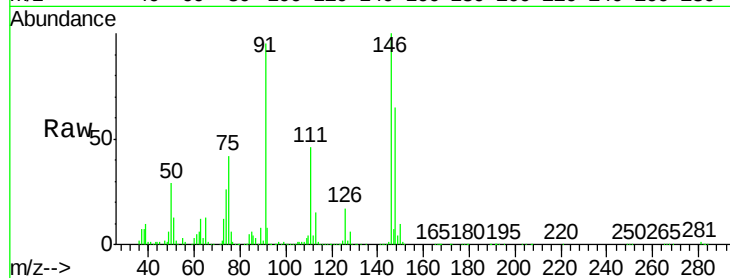
Tot Ion:146 Resp: 2071726

Ion Ratio Lower Upper

146 100

111 45.6 22.9 68.8

148 64.2 32.0 96.2



#76

1,4-Dichlorobenzene

Concen: 9.813 ppbv

RT: 17.31 min Scan# 4469

Delta R.T. -0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

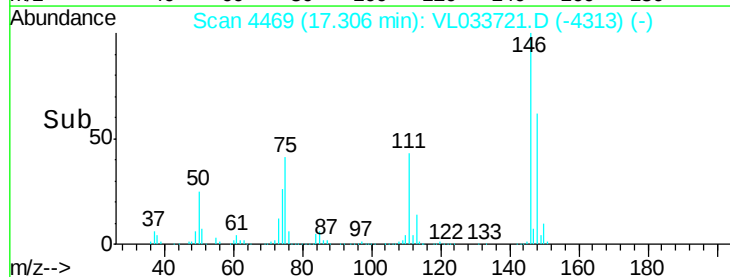
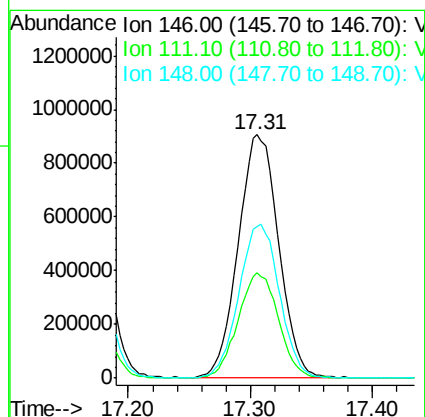
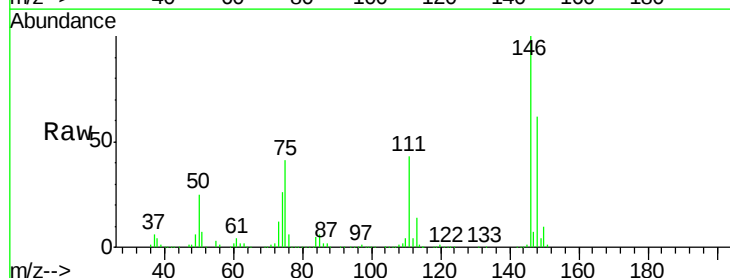
Tgt Ion:146 Resp: 2067467

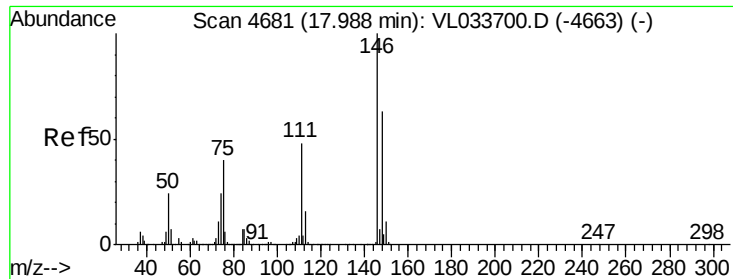
Ion Ratio Lower Upper

146 100

111 43.5 21.9 65.8

148 63.7 32.1 96.3

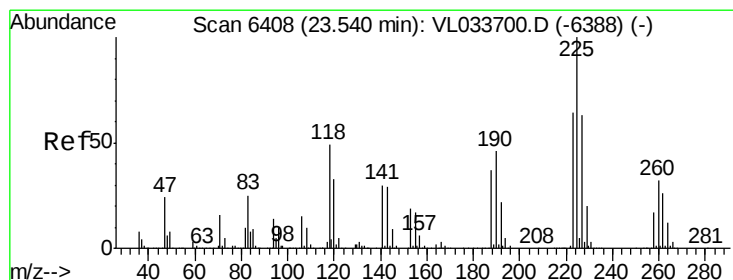
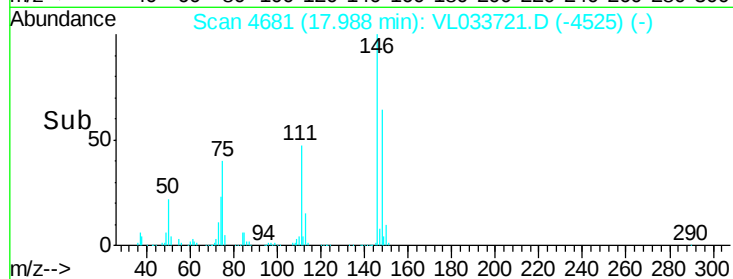
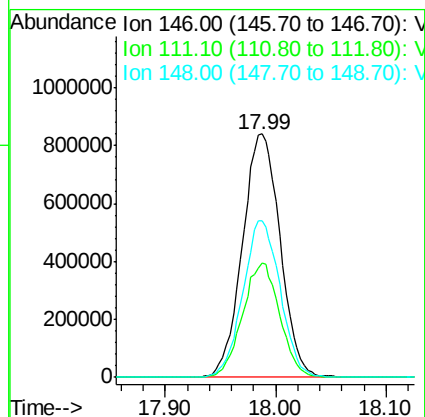
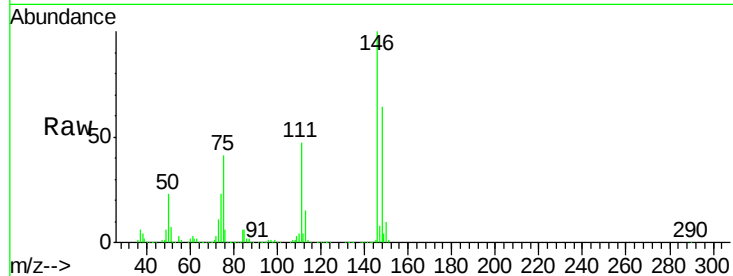




#77
 1,2-Dichlorobenzene
 Concen: 9.554 ppbv
 RT: 17.99 min Scan# 4681
 Delta R.T. -0.00 min
 Lab File: VL033721.D
 Acq: 20 May 2019 11:21

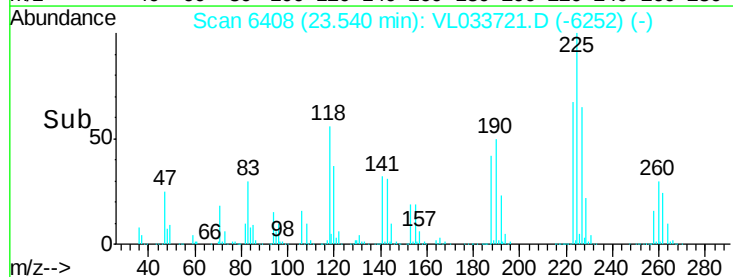
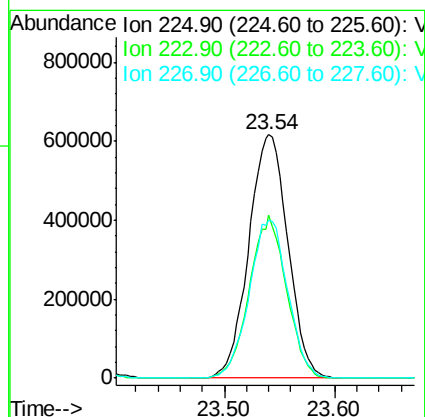
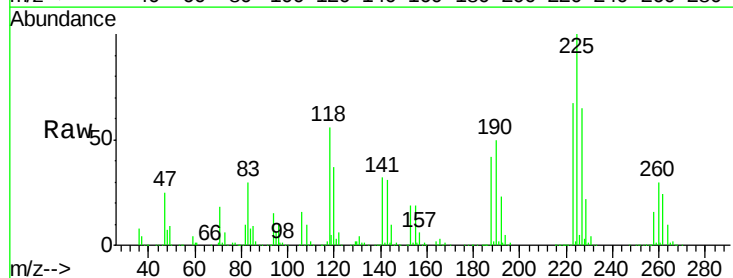
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

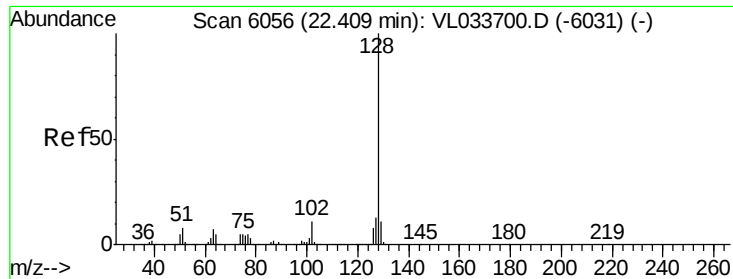
Tot Ion:146 Resp: 1989983
 Ion Ratio Lower Upper
 146 100
 111 46.4 23.5 70.5
 148 63.7 32.1 96.3



#78
 Hexachloro-1,3-Butadiene
 Concen: 9.599 ppbv
 RT: 23.54 min Scan# 6408
 Delta R.T. -0.00 min
 Lab File: VL033721.D
 Acq: 20 May 2019 11:21

Tgt Ion:225 Resp: 1511742
 Ion Ratio Lower Upper
 225 100
 223 63.2 50.2 75.4
 227 64.2 50.7 76.1





#79

Naphthalene

Concen: 9.418 ppbv

RT: 22.41 min Scan# 6056

Delta R.T. 0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

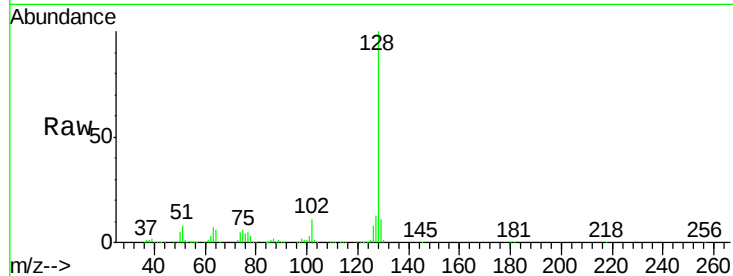
Tot Ion:128 Resp: 3164599

Ion Ratio Lower Upper

128 100

127 12.8 10.6 16.0

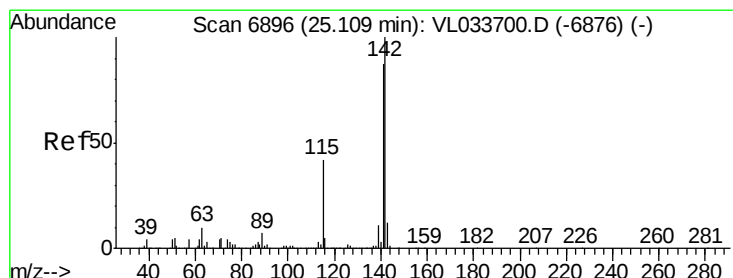
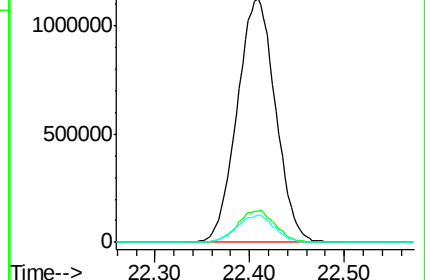
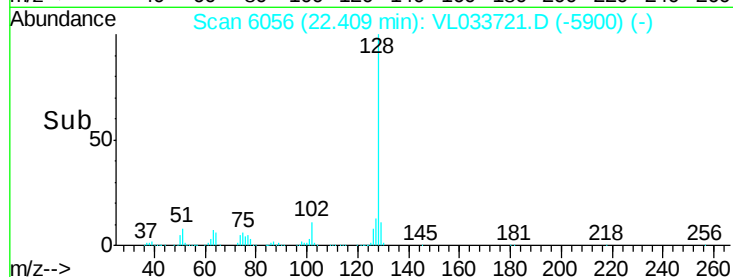
129 11.3 8.9 13.3



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: 9.981 ppbv

RT: 25.11 min Scan# 6896

Delta R.T. -0.00 min

Lab File: VL033721.D

Acq: 20 May 2019 11:21

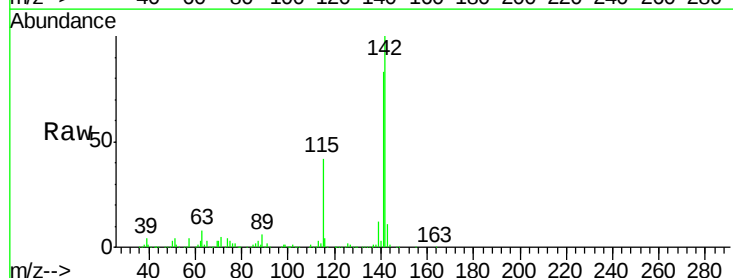
Tgt Ion:142 Resp: 1274271

Ion Ratio Lower Upper

142 100

141 83.4 67.2 100.8

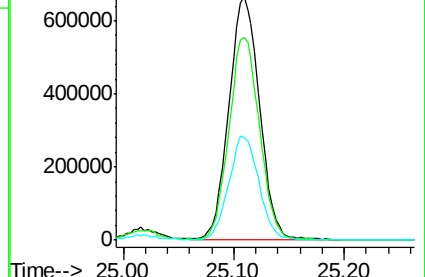
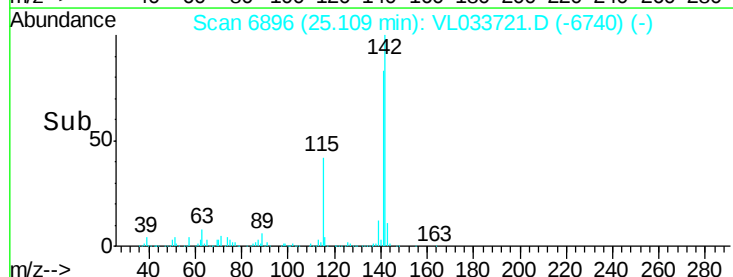
115 42.3 34.1 51.1

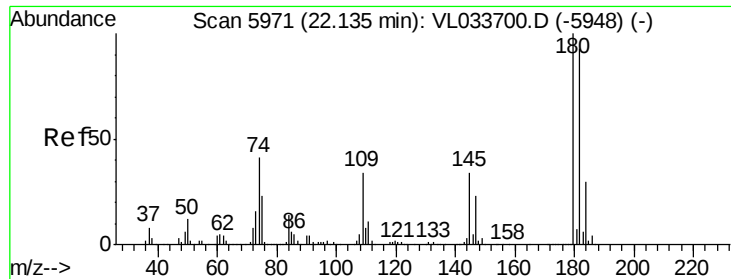


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 8.801 ppbv
 RT: 22.13 min Scan# 5970
 Delta R.T. -0.00 min
 Lab File: VL033721.D
 Acq: 20 May 2019 11:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:180 Resp: 1731585
 Ion Ratio Lower Upper
 180 100
 182 96.4 76.1 114.1
 184 30.5 24.6 37.0

