

Data File : VL033698.D

Acq On : 14 May 2019 19:32

Operator : SY/AP

Sample : VSTDCCC010

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Quant Time: May 15 02:37:11 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050619AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 06 15:19:01 2019

QLast Update : Mon May 06 15:19:01 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	855341	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2089614	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2393441	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1850250	9.43	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.30%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.08	85	1722728	8.587	ppbv	100
3) Chlorodifluoromethane	3.01	51	1077817	8.726	ppbv	98
4) Chloromethane	3.17	50	650980	10.137	ppbv	100
5) Vinyl Chloride	3.29	62	654388	10.481	ppbv	98
6) Bromomethane	3.51	94	416683	10.505	ppbv	96
7) Chloroethane	3.60	64	239472	10.565	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	1661073	10.059	ppbv	100
9) Propene	3.04	41	469258	9.965	ppbv	98
10) Heptane	8.25	43	1399869	12.045	ppbv	99
11) Trichlorofluoromethane	4.00	101	1859136	9.924	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1249547	9.922	ppbv	99
13) Ethanol	3.65	45	117269	8.296	ppbv	95
14) Bromoethene	3.79	108	500045	10.073	ppbv	100
15) Acetone	3.90	43	1144695	8.996	ppbv	99
16) 1,3-Butadiene	3.36	39	555792	10.184	ppbv	97
17) tert-Butyl alcohol	4.35	59	1067670	11.047	ppbv	99
18) 1,1-Dichloroethene	4.35	96	566554	10.420	ppbv	99
19) Isopropyl Alcohol	4.02	45	811104	10.375	ppbv	99
20) Methylene Chloride	4.41	84	472100	9.771	ppbv	97
21) Allyl Chloride	4.48	41	820377	10.651	ppbv	100
22) trans-1,2-Dichloroethene	4.96	96	602025	11.030	ppbv	98
23) Vinyl Acetate	5.15	43	1874588	11.337	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1298347	10.380	ppbv	99
25) Ethyl Acetate	5.77	43	2243502	10.837	ppbv	100
26) Hexane	5.78	57	985290	11.072	ppbv	99
27) Carbon Disulfide	4.62	76	1393596	11.449	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1696209	11.317	ppbv	100
29) Chloroform	5.85	83	1644040	10.275	ppbv	98
30) Cyclohexane	7.25	84	856923	11.466	ppbv	100
31) cis-1,2-Dichloroethene	5.64	61	998532	11.279	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1705678	10.323	ppbv	99
34) 2-Butanone	5.33	43	1462730	10.931	ppbv	99
35) Carbon Tetrachloride	7.13	117	1857244	10.814	ppbv	99
36) Benzene	7.00	78	2100317	11.209	ppbv	99
37) 1,2-Dichloroethane	6.41	62	1250295	9.563	ppbv	100
38) Trichloroethene	7.96	130	910391	13.245	ppbv	98
39) 1,2-Dichloropropane	7.73	63	840637	12.038	ppbv	98
40) 1,4-Dioxane	7.95	88	339993	12.182	ppbv	91
41) Tetrahydrofuran	6.15	42	825226	11.934	ppbv	100
42) Bromodichloromethane	7.92	83	1955978	11.587	ppbv	98
43) Methyl Methacrylate	8.13	69	894655	12.694	ppbv	99

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ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

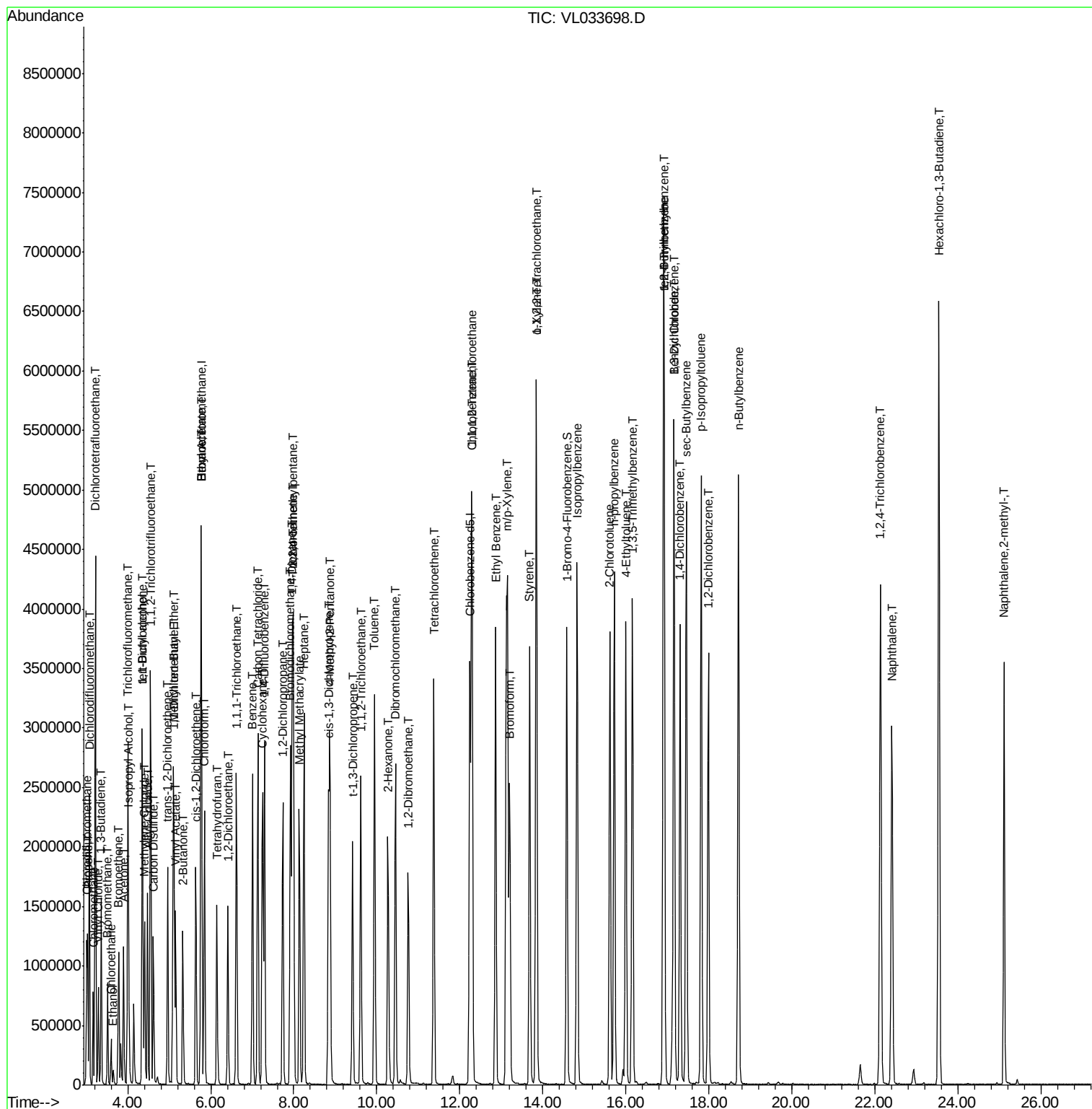
Quant Time: May 15 02:37:11 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050619AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 06 15:19:01 2019
QLast Update : Mon May 06 15:19:01 2019
Response via : Initial Calibration

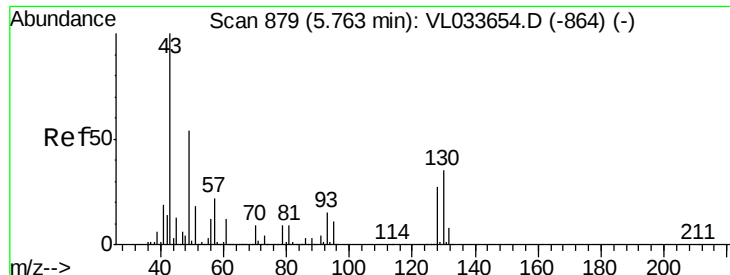
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3709148	11.577	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1207777	13.962	ppbv	97
46) cis-1,3-Dichloropropene	8.83	75	1375476	12.740	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	924210	11.524	ppbv	97
48) Dibromochloromethane	10.45	129	1685791	12.400	ppbv	100
49) Bromoform	13.20	173	1462905	12.388	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2387663	11.784	ppbv	100
51) 2-Hexanone	10.27	43	1958023	12.474	ppbv #	99
52) Tetrachloroethene	11.37	164	845733	12.740	ppbv	96
53) Toluene	9.95	91	2593566	12.811	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1467952	12.152	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1128146	10.218	ppbv	98
57) Chlorobenzene	12.30	112	1993067	10.142	ppbv	100
58) Ethyl Benzene	12.86	91	3588440	11.497	ppbv	100
59) m/p-Xylene	13.15	91	2854260	10.382	ppbv #	26
60) o-Xylene	13.85	91	2955261	10.622	ppbv	100
61) Styrene	13.68	104	2237482	12.077	ppbv	99
62) Isopropylbenzene	14.83	105	3958369	10.420	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	1992041	9.838	ppbv	100
64) n-propylbenzene	15.72	120	1032765	10.520	ppbv	99
65) tert-Butylbenzene	16.90	119	3537473	10.151	ppbv	100
66) Benzyl Chloride	17.16	91	1964798	12.394	ppbv	100
67) sec-Butylbenzene	17.46	105	4963799	10.210	ppbv	100
69) p-Isopropyltoluene	17.81	119	4156367	10.375	ppbv	100
70) n-Butylbenzene	18.71	91	4332413	10.199	ppbv	100
71) 2-Chlorotoluene	15.61	91	2980834	10.621	ppbv	100
72) 4-Ethyltoluene	16.00	105	3487167	10.663	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	3252137	10.285	ppbv	99
74) 1,2,4-Trimethylbenzene	16.92	105	3431097	9.762	ppbv	93
75) 1,3-Dichlorobenzene	17.16	146	2010657	9.471	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	2017058	10.012	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1914033	9.732	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	1740771	11.168	ppbv	100
79) Naphthalene	22.41	128	3963864	12.352	ppbv	99
80) Naphthalene,2-methyl-	25.11	142	1925616	15.873	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	2036606	10.924	ppbv	99

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

ALS Vial : 1 Sample Multiplier: 1

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

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MSVOA_L

ClientSampleId :

VSTDCCC010EC

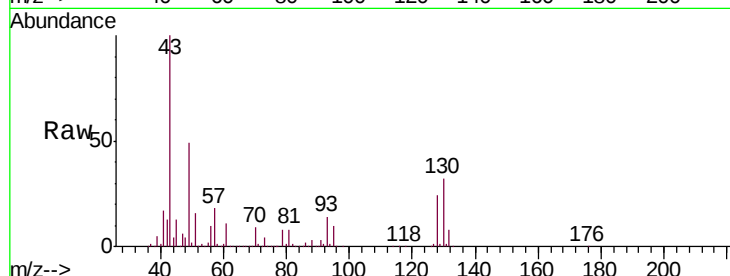
Tgt Ion: 49 Resp: 855341

Ion Ratio Lower Upper

49 100

128 50.7 24.8 74.3

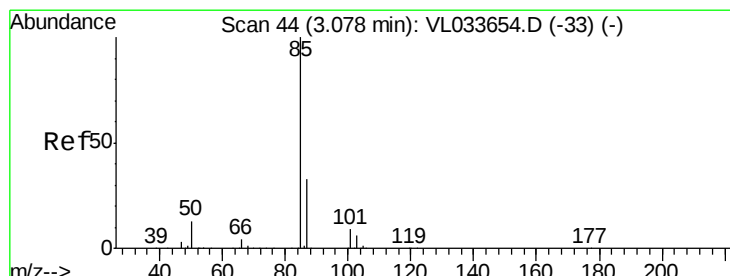
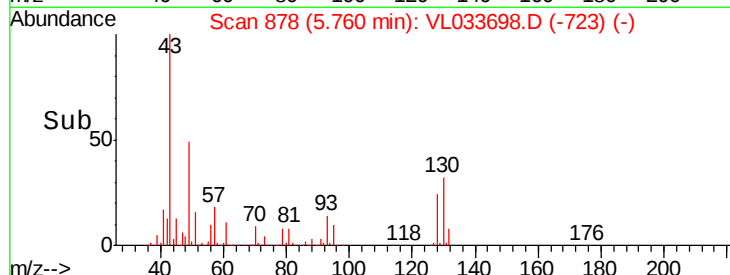
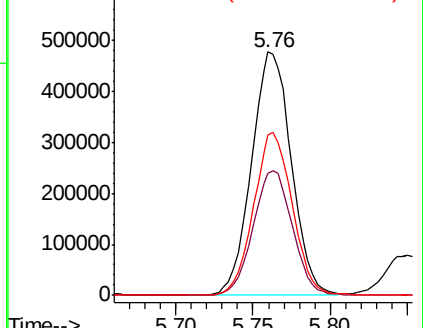
130 65.3 32.1 96.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 8.587 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033698.D

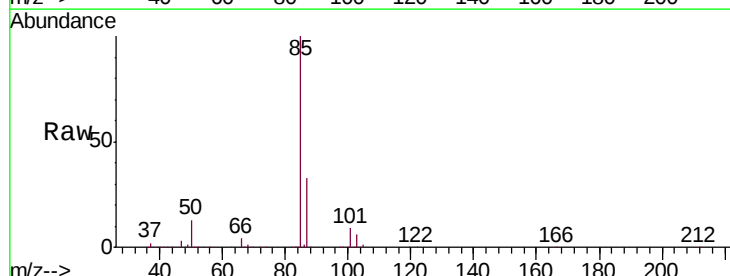
Acq: 14 May 2019 19:32

Tgt Ion: 85 Resp: 1722728

Ion Ratio Lower Upper

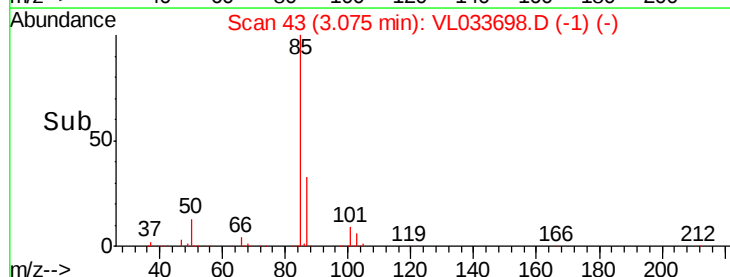
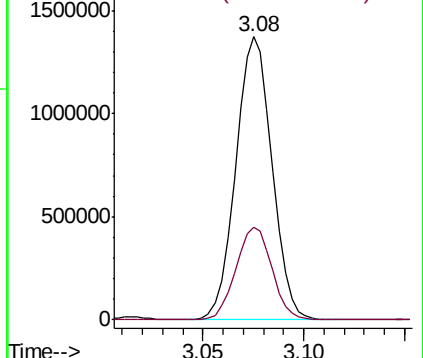
85 100

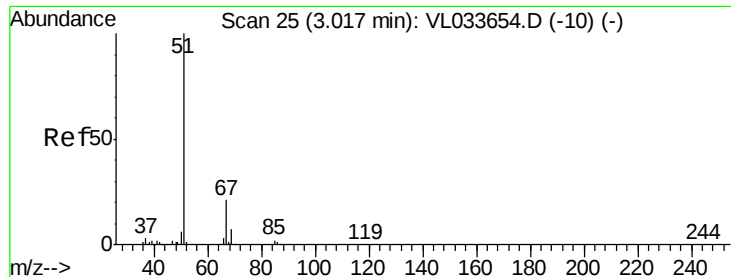
87 32.7 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

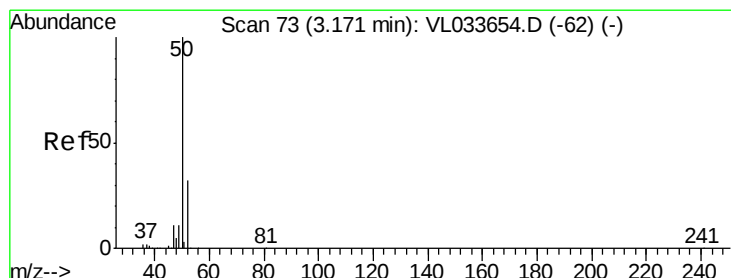
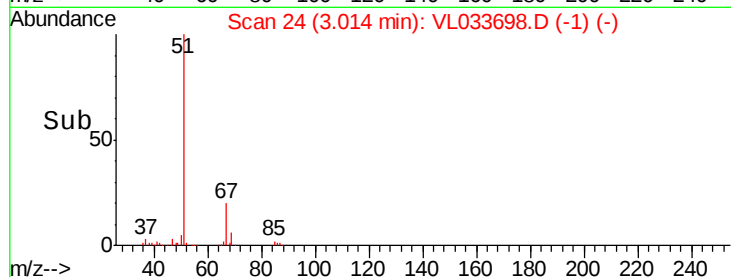
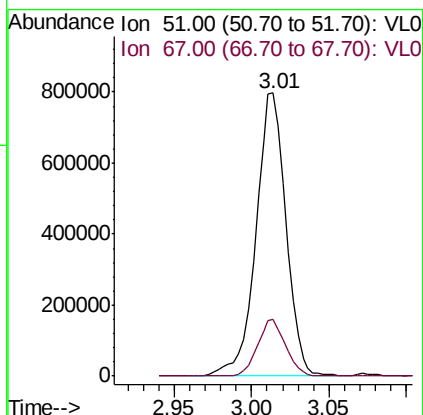
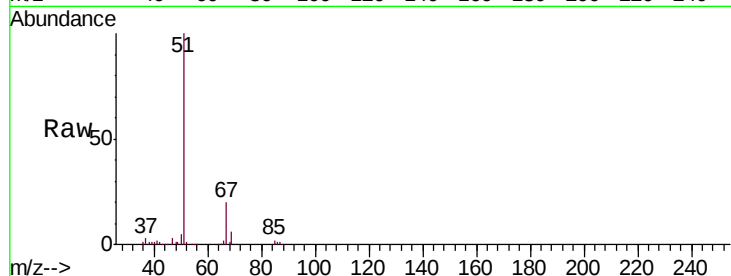




#3
 Chlorodifluoromethane
 Concen: 8.726 ppbv
 RT: 3.01 min Scan# 24
 Delta R.T. -0.00 min
 Lab File: VL033698.D
 Acq: 14 May 2019 19:32

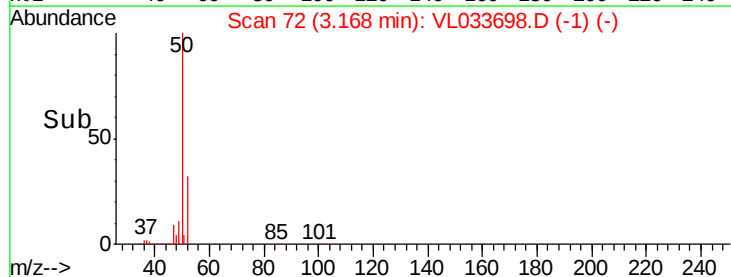
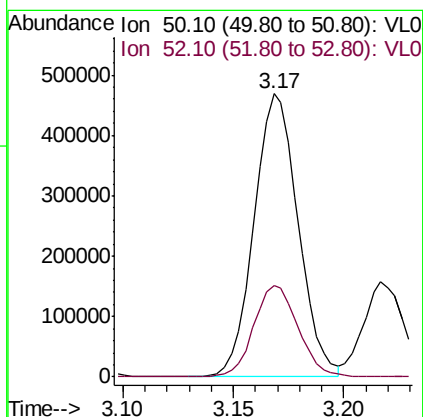
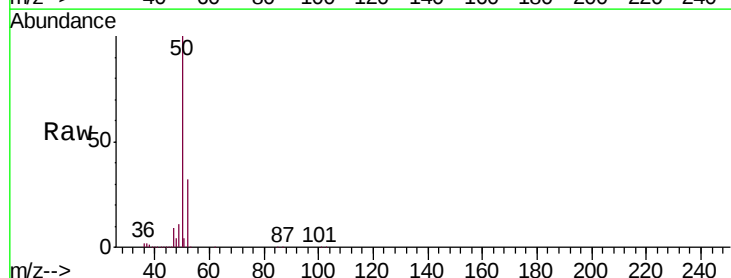
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

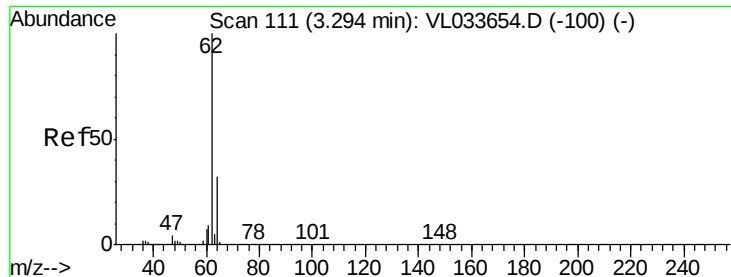
Tgt Ion: 51 Resp: 1077817
 Ion Ratio Lower Upper
 51 100
 67 18.8 15.7 23.5



#4
 Chloromethane
 Concen: 10.137 ppbv
 RT: 3.17 min Scan# 72
 Delta R.T. -0.00 min
 Lab File: VL033698.D
 Acq: 14 May 2019 19:32

Tgt Ion: 50 Resp: 650980
 Ion Ratio Lower Upper
 50 100
 52 32.5 25.8 38.8





#5

Vinyl Chloride

Concen: 10.481 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

Instrument :

MSVOA_L

ClientSampleId :

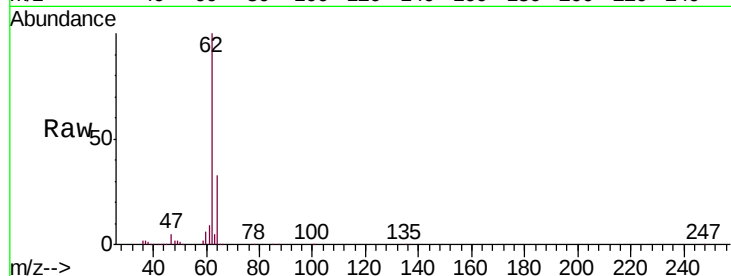
VSTDCCC010EC

Tgt Ion: 62 Resp: 654388

Ion Ratio Lower Upper

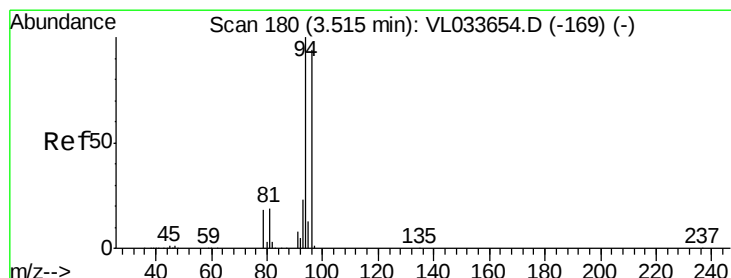
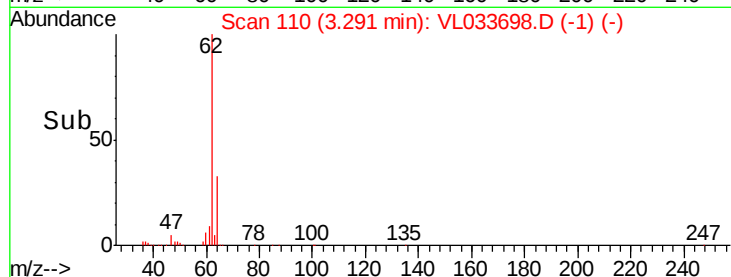
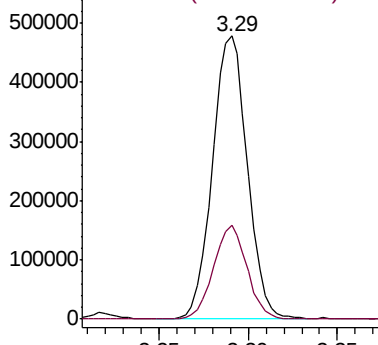
62 100

64 33.0 25.6 38.4



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.505 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033698.D

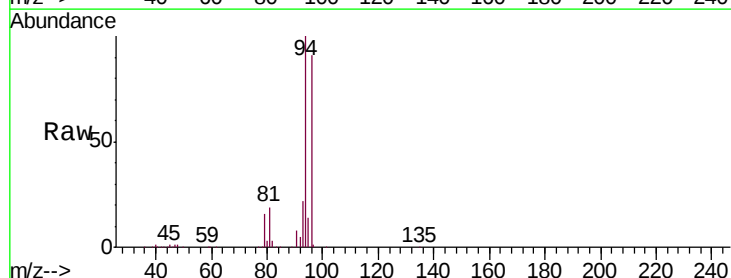
Acq: 14 May 2019 19:32

Tgt Ion: 94 Resp: 416683

Ion Ratio Lower Upper

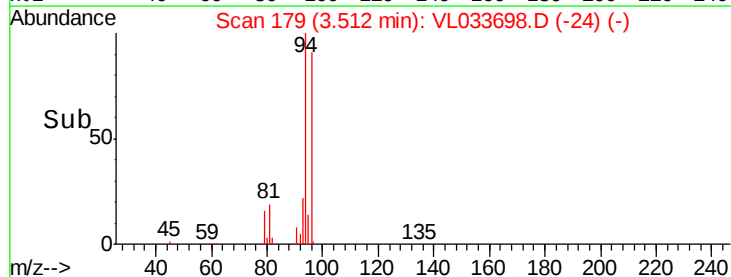
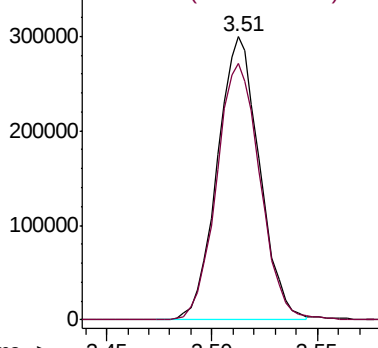
94 100

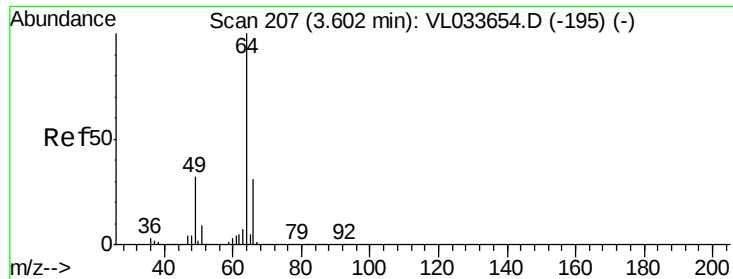
96 90.6 75.2 112.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.565 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

Instrument :

MSVOA_L

ClientSampleId :

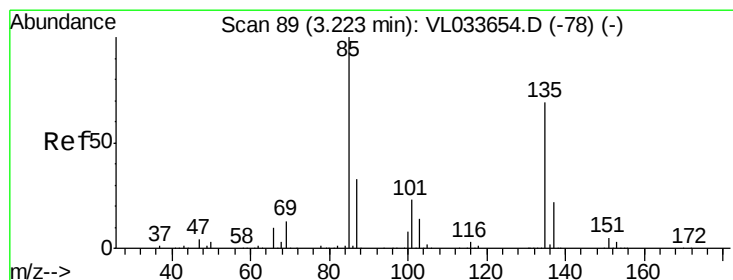
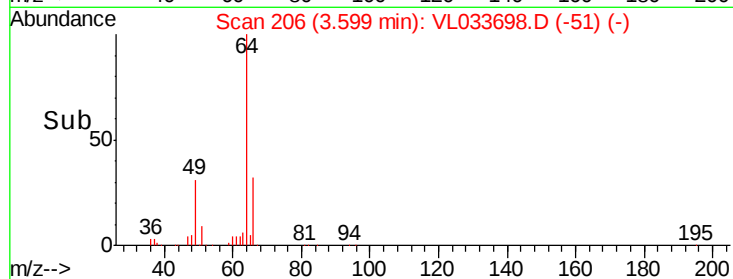
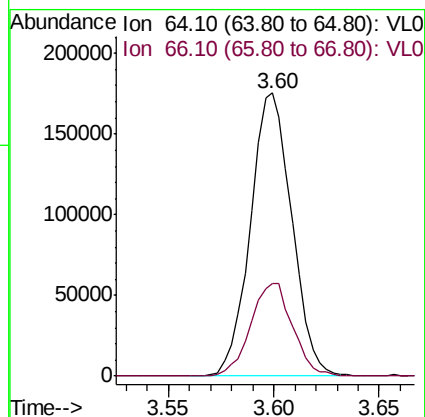
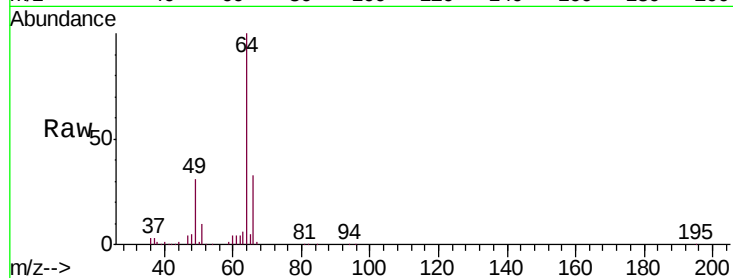
VSTDCCC010EC

Tgt Ion: 64 Resp: 239472

Ion Ratio Lower Upper

64 100

66 32.7 25.1 37.7



#8

Dichlorotetrafluoroethane

Concen: 10.059 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033698.D

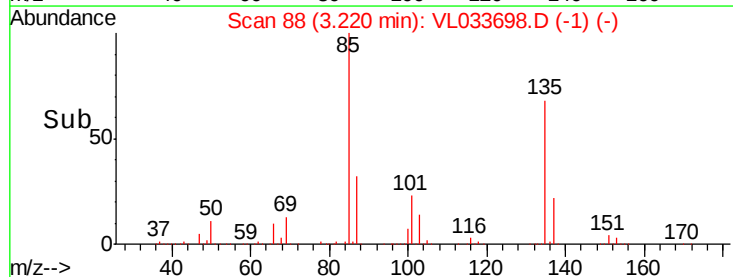
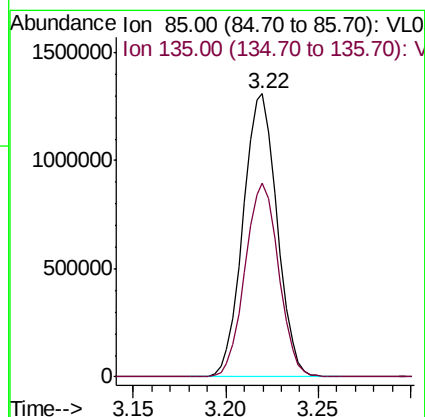
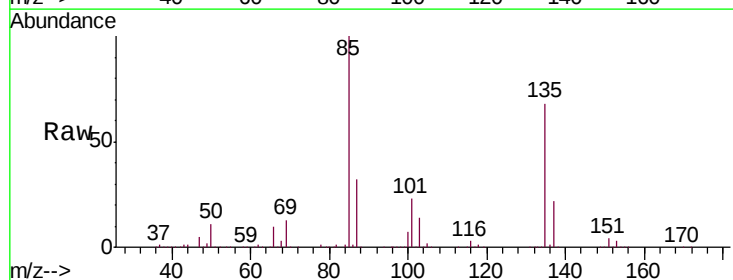
Acq: 14 May 2019 19:32

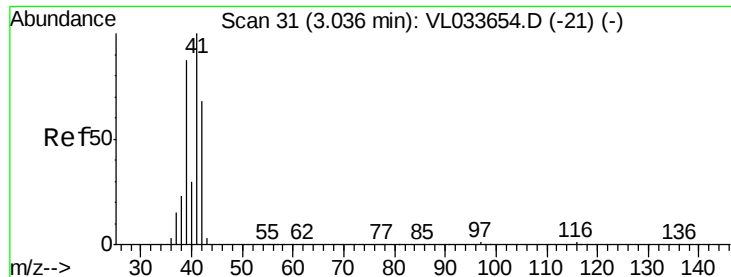
Tgt Ion: 85 Resp: 1661073

Ion Ratio Lower Upper

85 100

135 68.3 54.3 81.5





#9

Propene

Concen: 9.965 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

Instrument :

MSVOA_L

ClientSampleId :

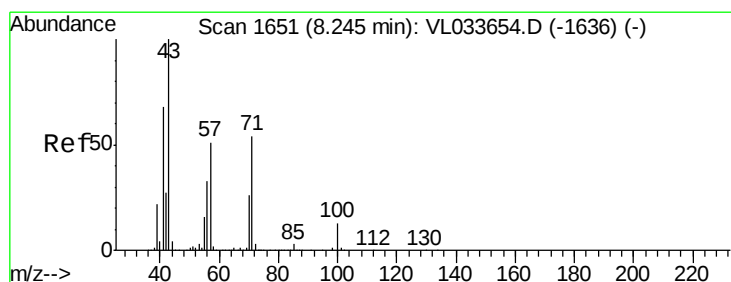
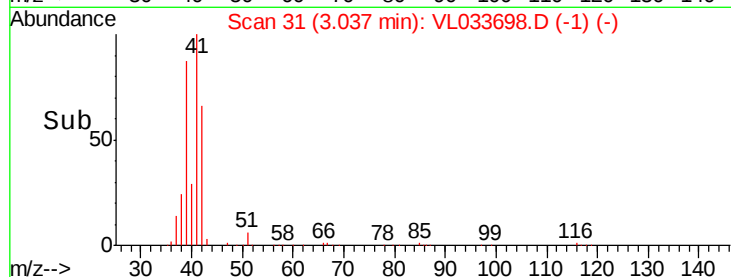
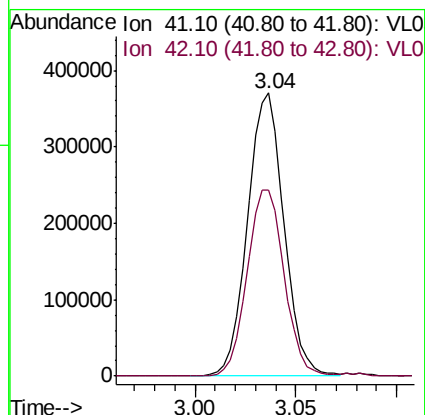
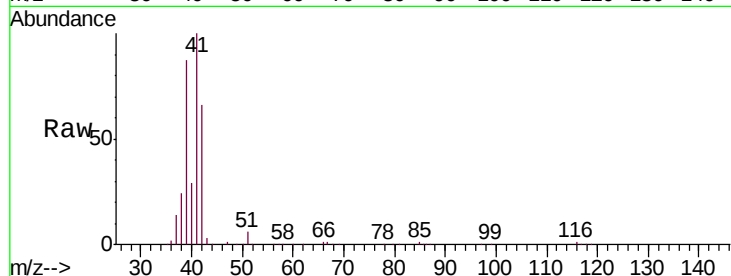
VSTDCCC010EC

Tgt Ion: 41 Resp: 469258

Ion Ratio Lower Upper

41 100

42 67.9 55.6 83.4



#10

Heptane

Concen: 12.045 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. 0.00 min

Lab File: VL033698.D

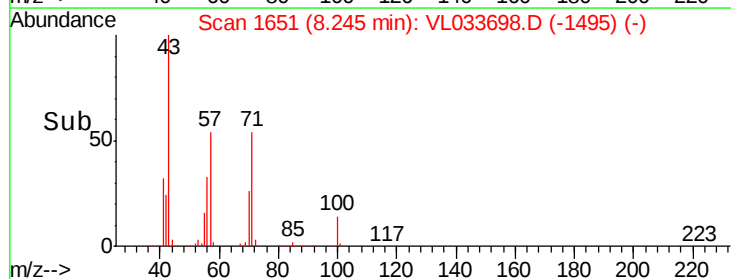
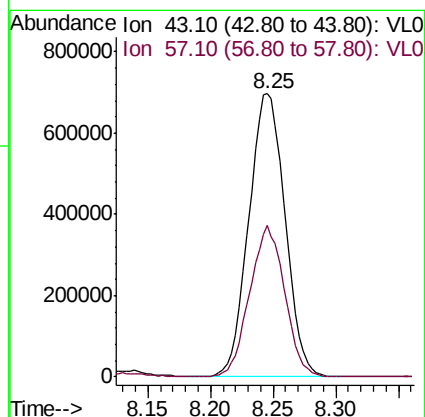
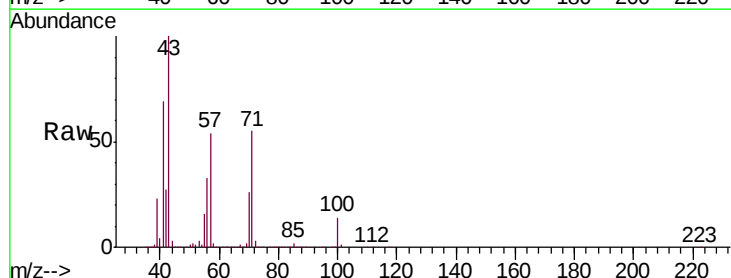
Acq: 14 May 2019 19:32

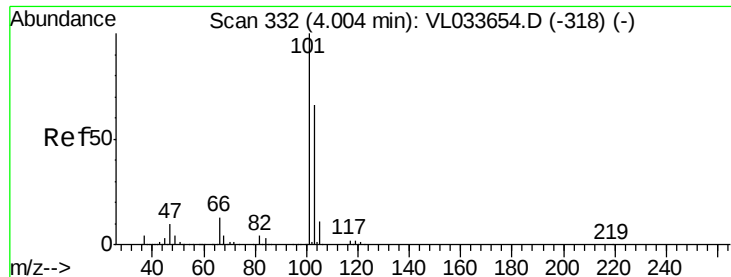
Tgt Ion: 43 Resp: 1399869

Ion Ratio Lower Upper

43 100

57 51.5 41.8 62.6

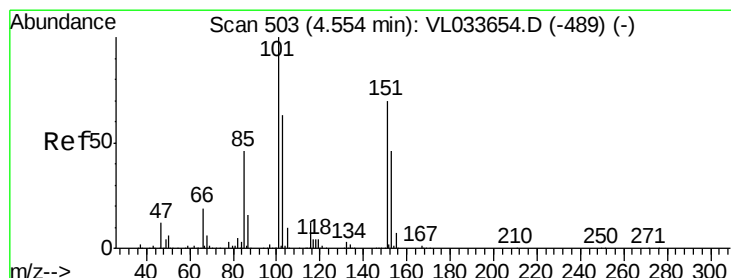
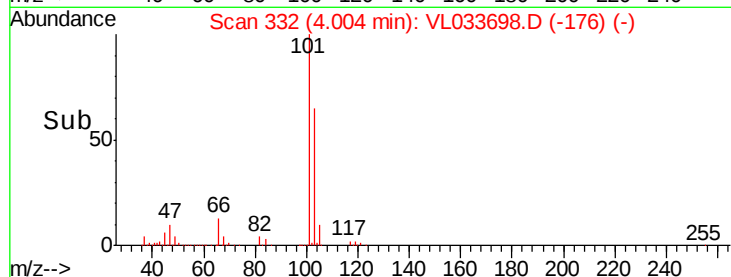
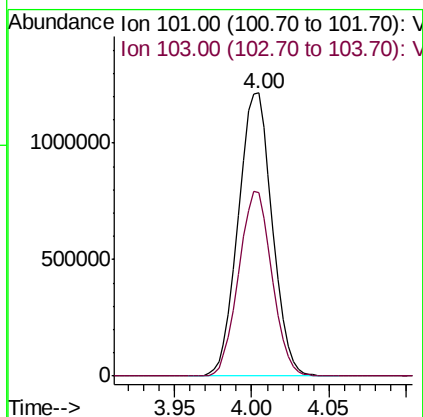
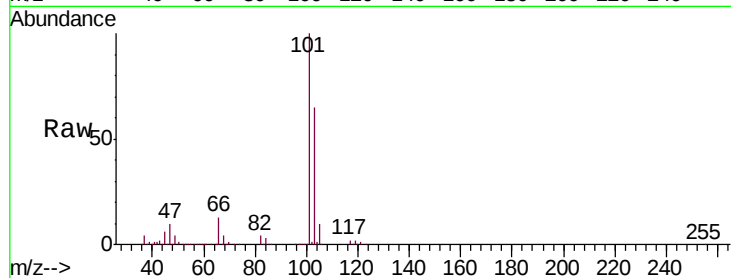




#11
 Trichlorofluoromethane
 Concen: 9.924 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. 0.00 min
 Lab File: VL033698.D
 Acq: 14 May 2019 19:32

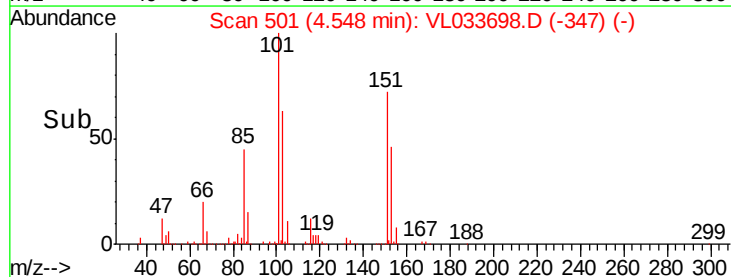
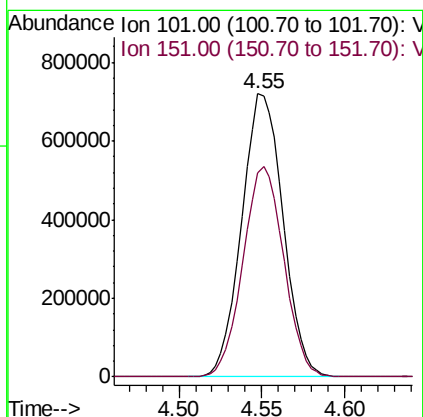
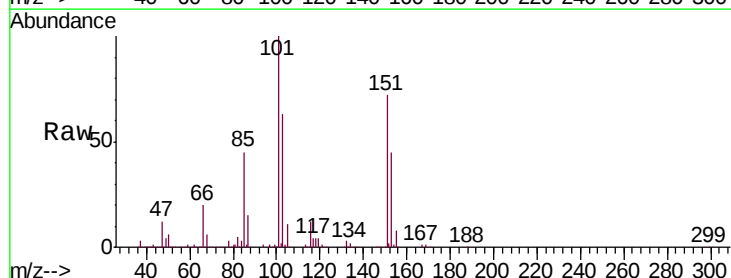
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

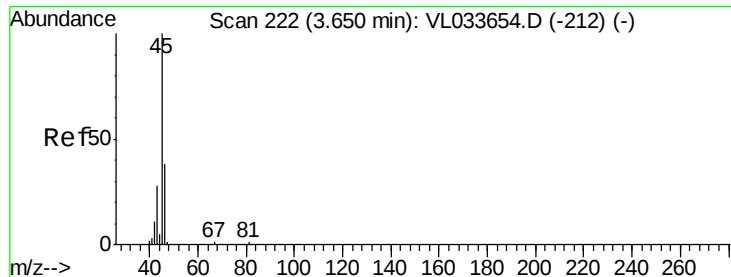
Tgt Ion:101 Resp: 1859136
 Ion Ratio Lower Upper
 101 100
 103 65.0 52.7 79.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.922 ppbv
 RT: 4.55 min Scan# 501
 Delta R.T. -0.01 min
 Lab File: VL033698.D
 Acq: 14 May 2019 19:32

Tgt Ion:101 Resp: 1249547
 Ion Ratio Lower Upper
 101 100
 151 73.6 58.0 87.0





#13

Ethanol

Concen: 8.296 ppbv

RT: 3.65 min Scan# 222

Delta R.T. 0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

Instrument :

MSVOA_L

ClientSampleId :

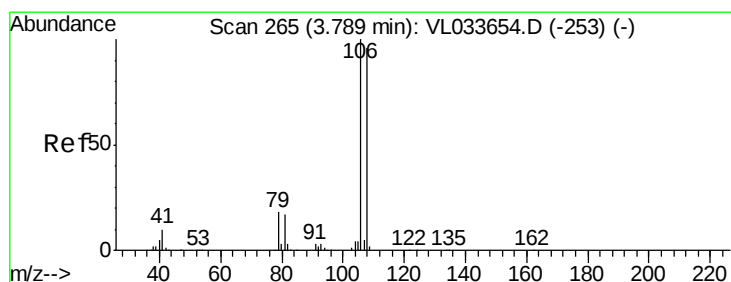
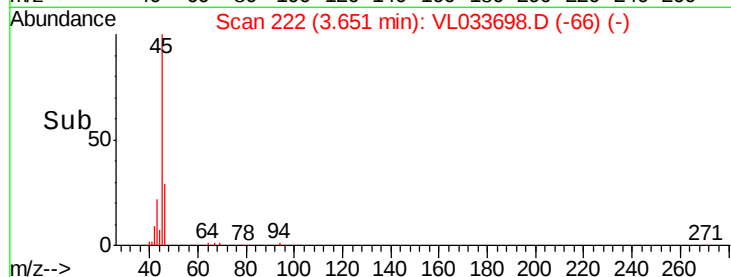
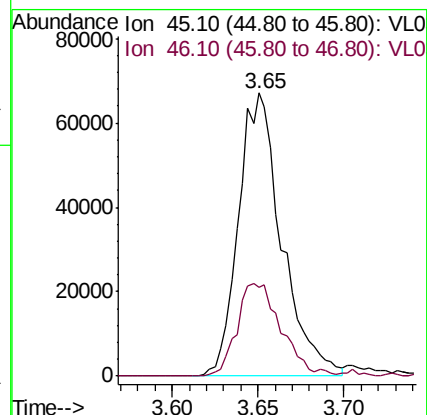
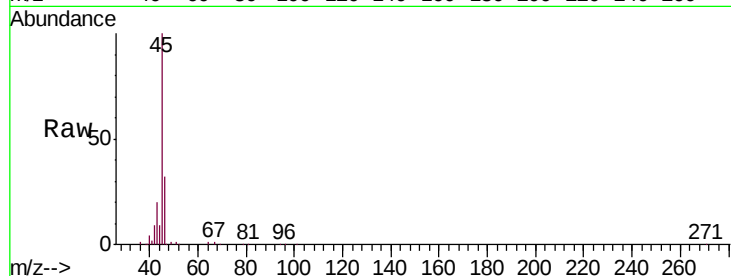
VSTDCCC010EC

Tgt Ion: 45 Resp: 117269

Ion Ratio Lower Upper

45 100

46 34.4 14.9 59.7



#14

Bromoethene

Concen: 10.073 ppbv

RT: 3.79 min Scan# 264

Delta R.T. -0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

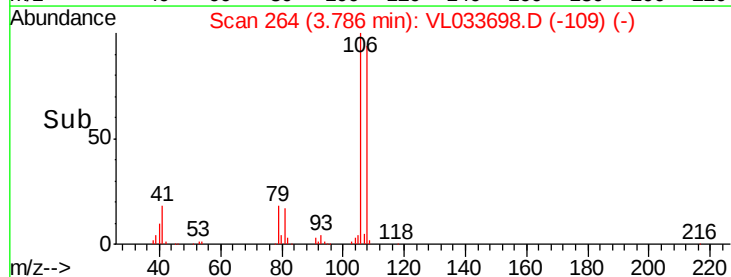
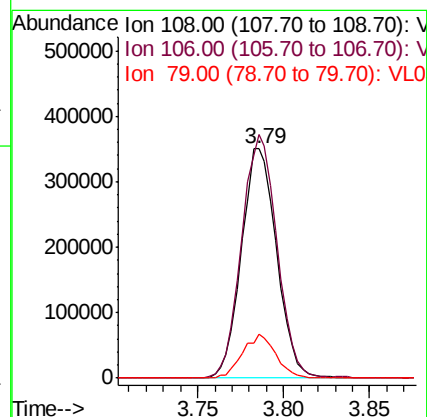
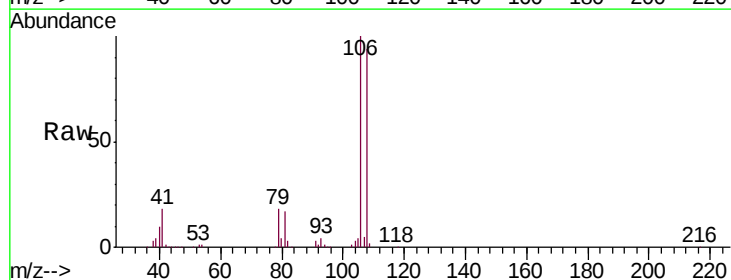
Tgt Ion: 108 Resp: 500045

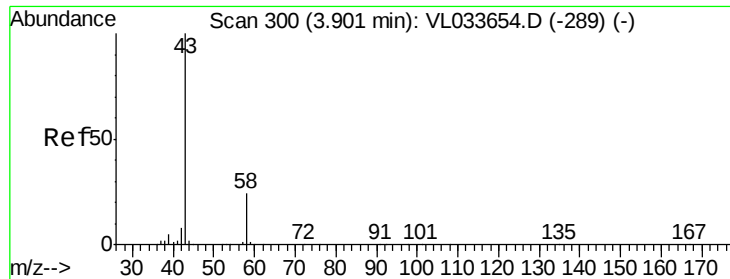
Ion Ratio Lower Upper

108 100

106 106.8 85.7 128.5

79 18.5 15.2 22.8





#15

Acetone

Concen: 8.996 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

Instrument :

MSVOA_L

ClientSampleId :

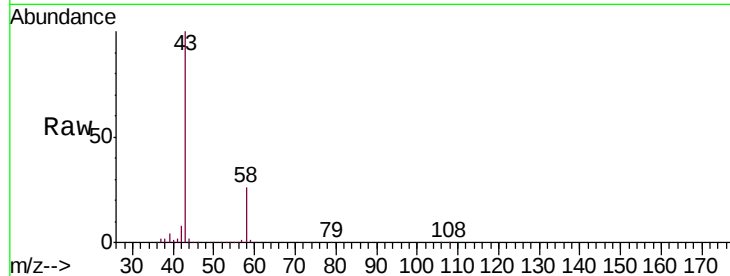
VSTDCCC010EC

Tgt Ion: 43 Resp: 1144695

Ion Ratio Lower Upper

43 100

58 26.6 20.9 31.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.90

800000

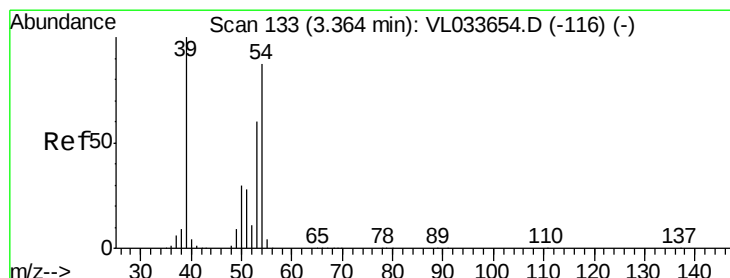
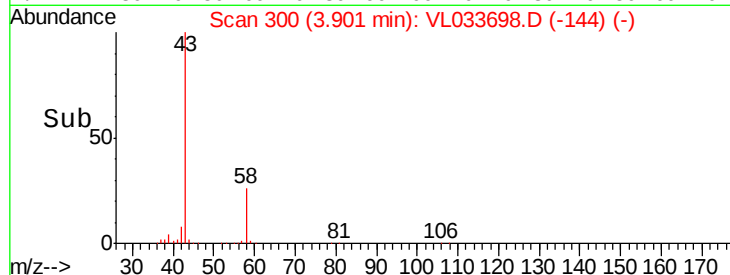
600000

400000

200000

0

Time-->



#16

1,3-Butadiene

Concen: 10.184 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033698.D

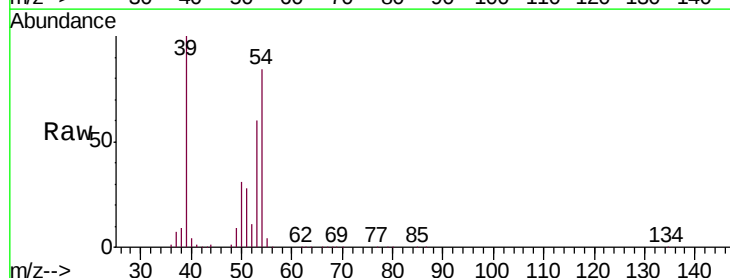
Acq: 14 May 2019 19:32

Tgt Ion: 39 Resp: 555792

Ion Ratio Lower Upper

39 100

54 86.0 67.0 100.4



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.36

500000

400000

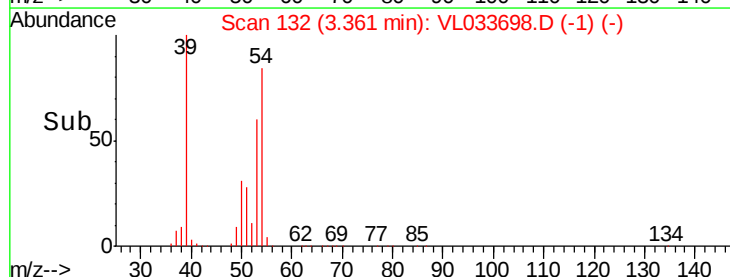
300000

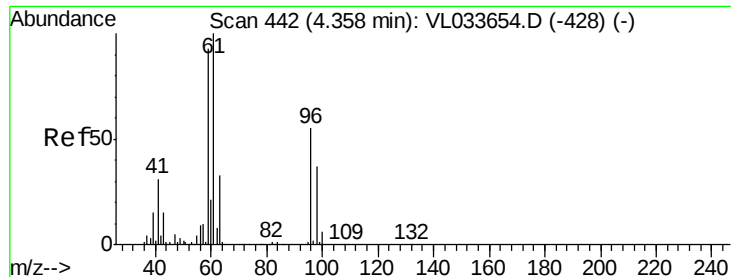
200000

100000

0

Time-->





#17

tert-Butyl alcohol

Concen: 11.047 ppbv

RT: 4.35 min Scan# 441

Delta R.T. -0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

Instrument :

MSVOA_L

ClientSampleId :

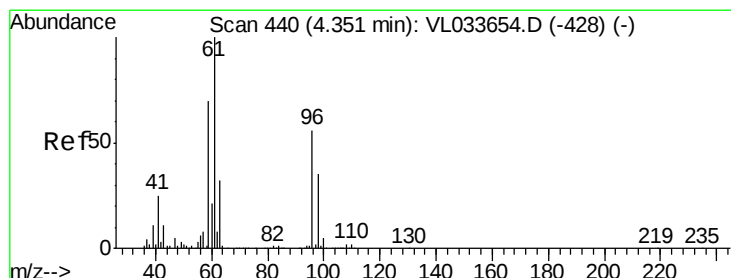
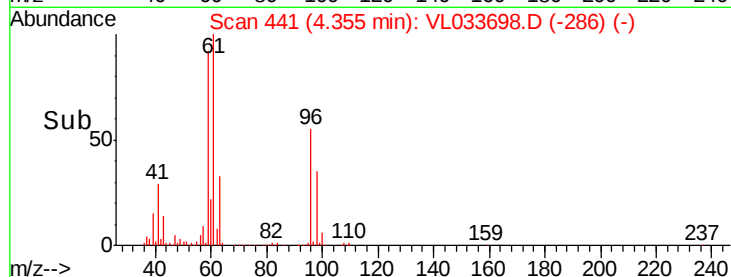
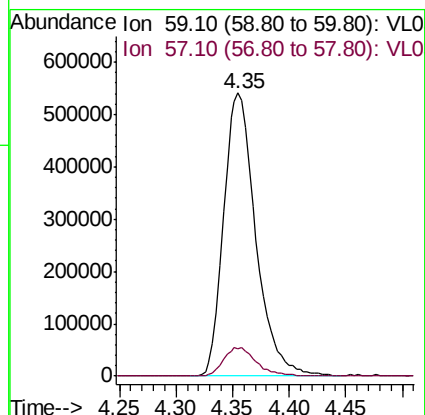
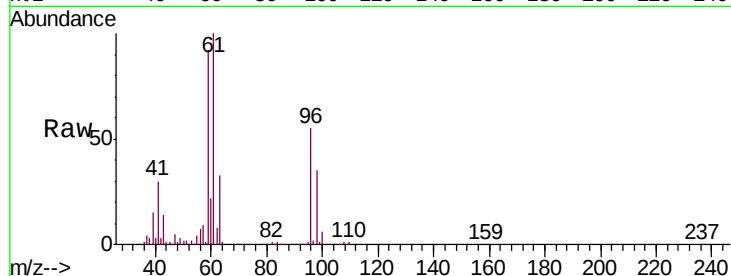
VSTDCCC010EC

Tgt Ion: 59 Resp: 1067670

Ion Ratio Lower Upper

59 100

57 10.3 8.4 12.6



#18

1,1-Dichloroethene

Concen: 10.420 ppbv

RT: 4.35 min Scan# 440

Delta R.T. 0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

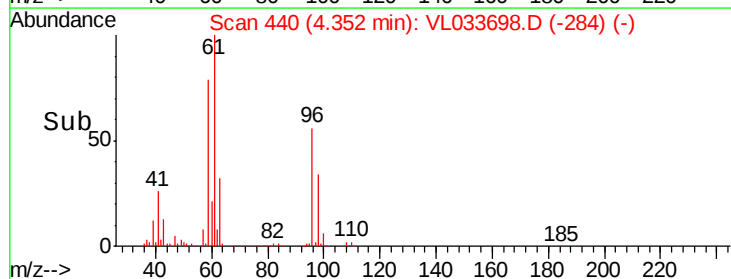
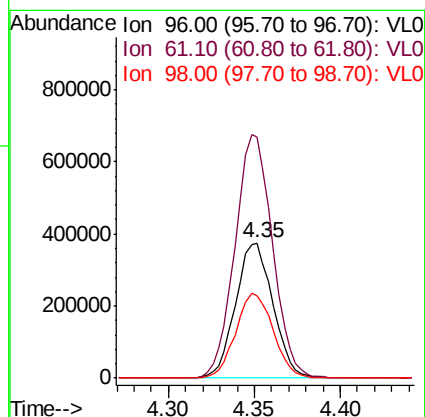
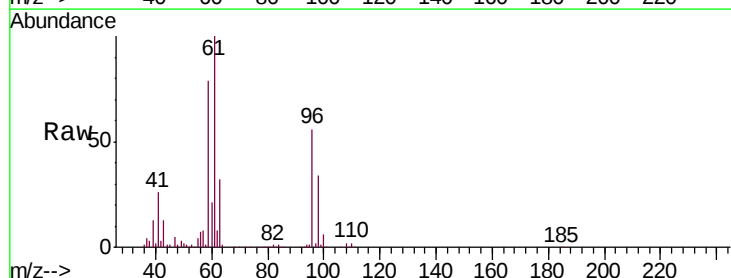
Tgt Ion: 96 Resp: 566554

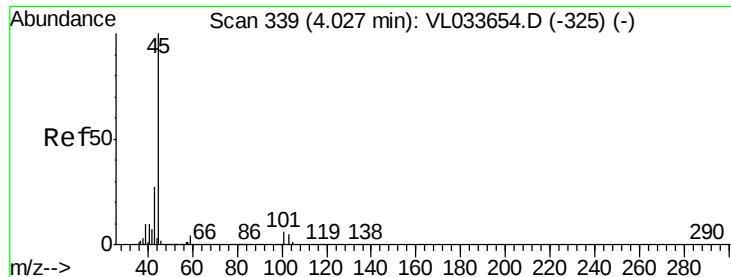
Ion Ratio Lower Upper

96 100

61 178.0 143.4 215.0

98 61.2 50.4 75.6



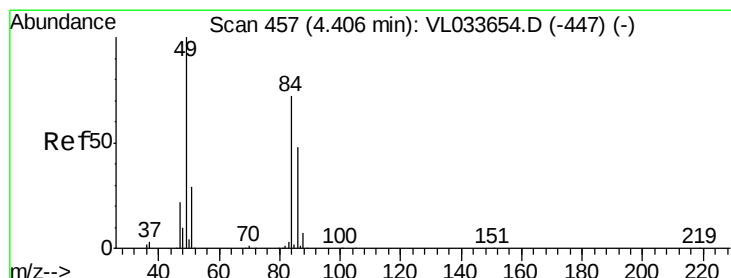
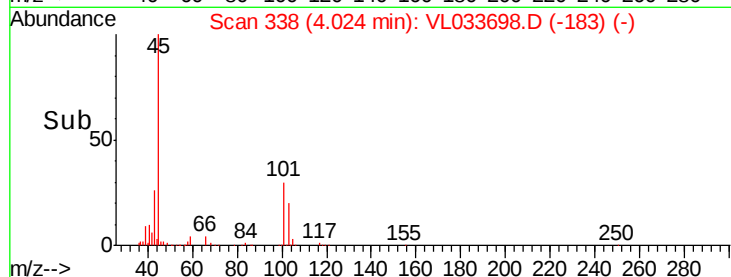
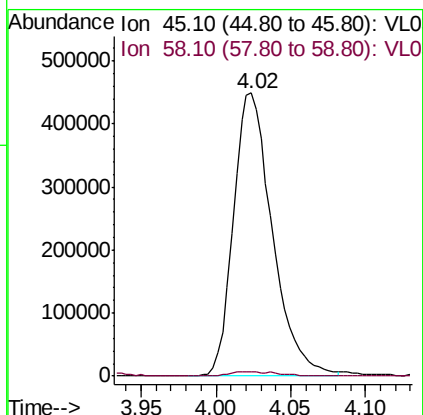
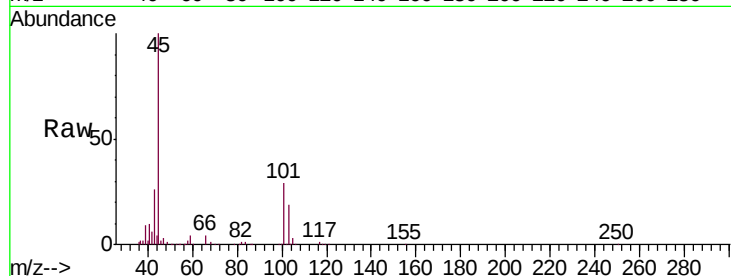


#19

Isopropyl Alcohol
 Concen: 10.375 ppbv
 RT: 4.02 min Scan# 338
 Delta R.T. -0.00 min
 Lab File: VL033698.D
 Acq: 14 May 2019 19:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

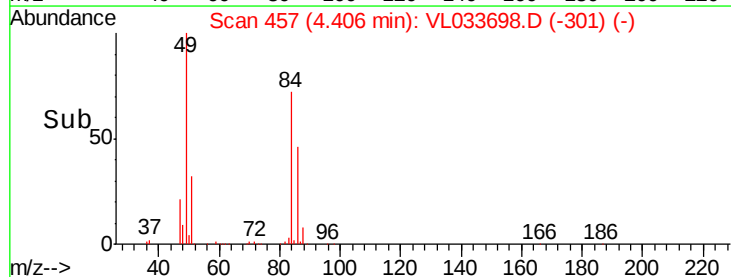
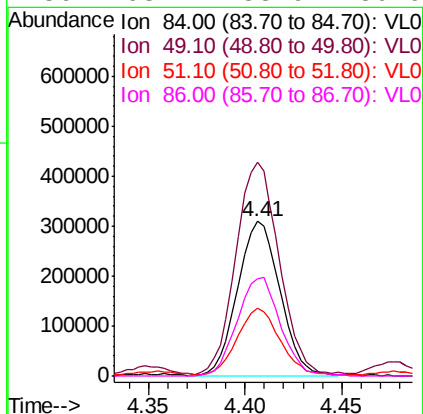
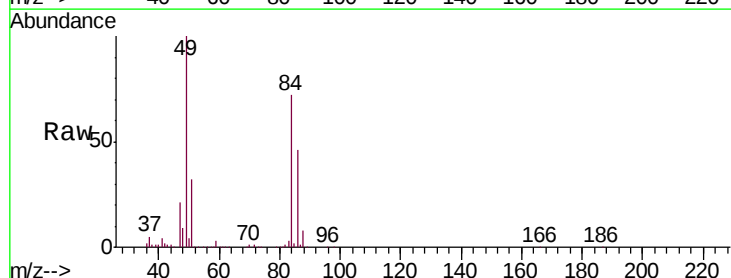
Tgt Ion: 45 Resp: 811104
 Ion Ratio Lower Upper
 45 100
 58 2.2 2.0 3.0

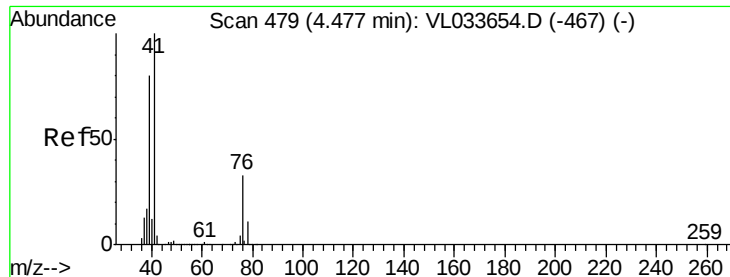


#20

Methylene Chloride
 Concen: 9.771 ppbv
 RT: 4.41 min Scan# 457
 Delta R.T. 0.00 min
 Lab File: VL033698.D
 Acq: 14 May 2019 19:32

Tgt Ion: 84 Resp: 472100
 Ion Ratio Lower Upper
 84 100
 49 137.4 111.8 167.6
 51 42.9 32.3 48.5
 86 63.2 53.9 80.9





#21

Allyl Chloride

Concen: 10.651 ppbv

RT: 4.48 min Scan# 479

Delta R.T. 0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

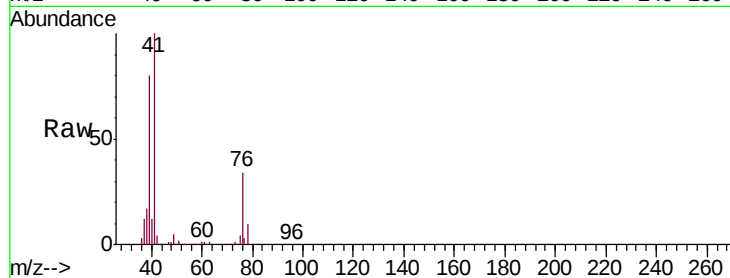
Tgt Ion: 41 Resp: 820377

Ion Ratio Lower Upper

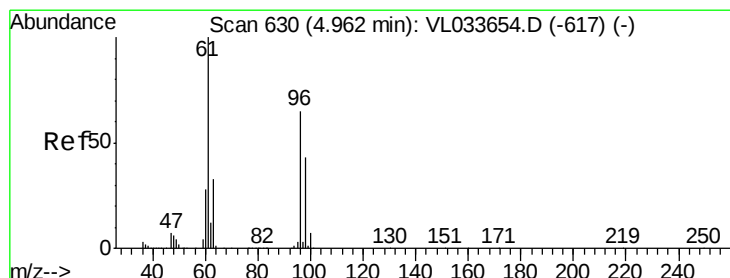
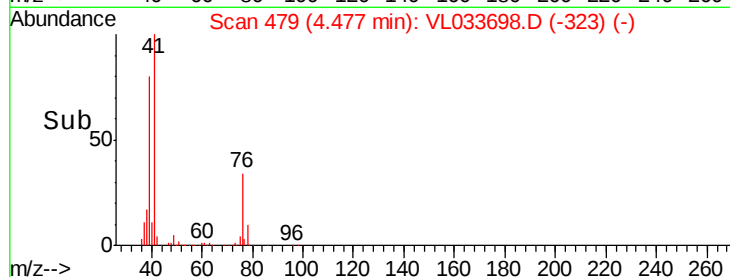
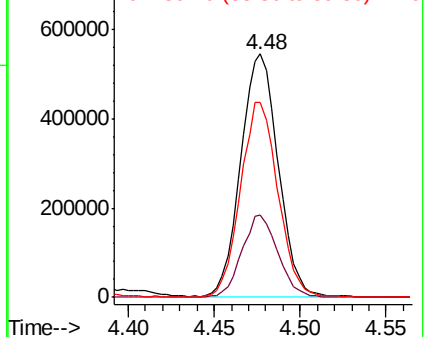
41 100

76 32.8 26.0 39.0

39 80.8 64.4 96.6



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: 11.030 ppbv

RT: 4.96 min Scan# 629

Delta R.T. -0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

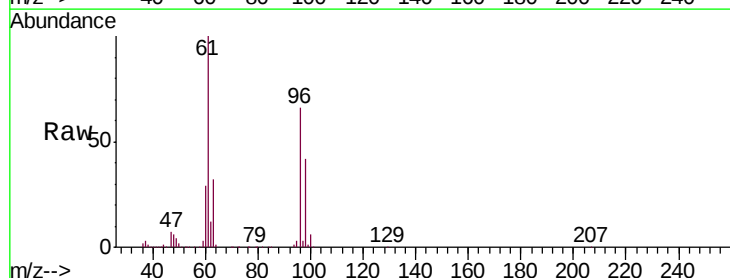
Tgt Ion: 96 Resp: 602025

Ion Ratio Lower Upper

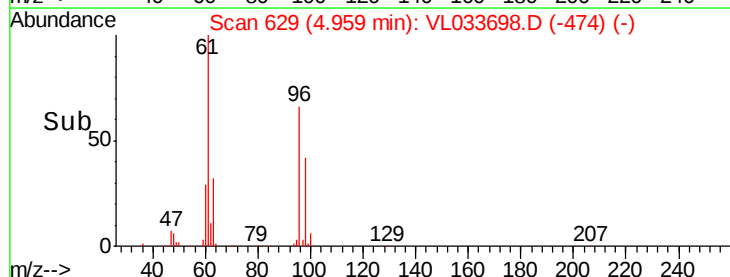
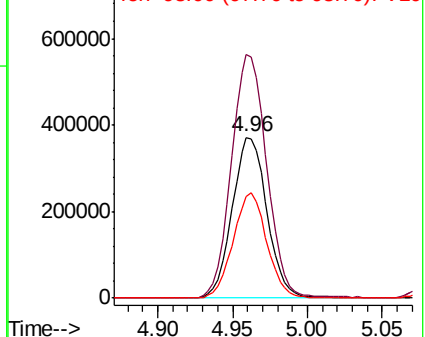
96 100

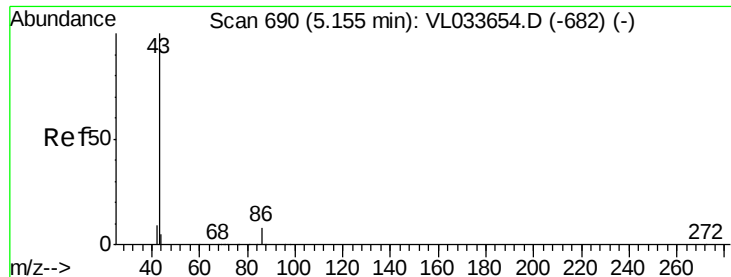
61 151.8 123.1 184.7

98 63.0 52.6 79.0



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: 11.337 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 1874588

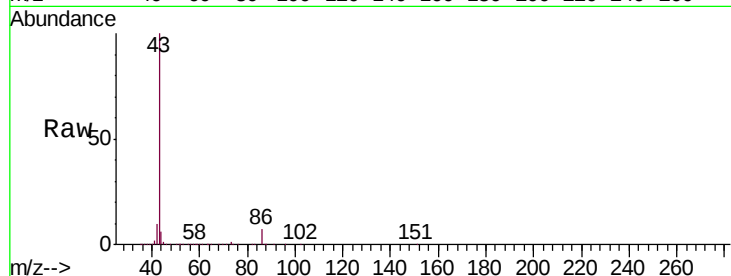
Ion Ratio Lower Upper

43 100

86 7.3 6.0 9.0

42 10.2 8.0 12.0

44 5.4 3.9 5.9

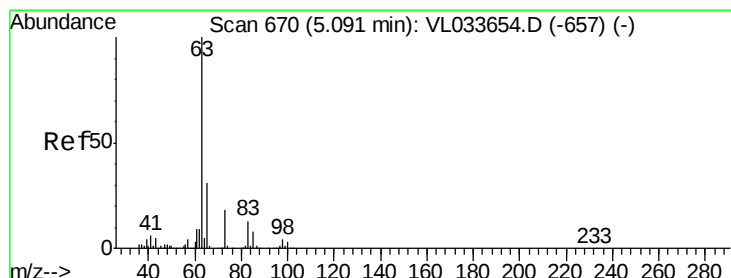
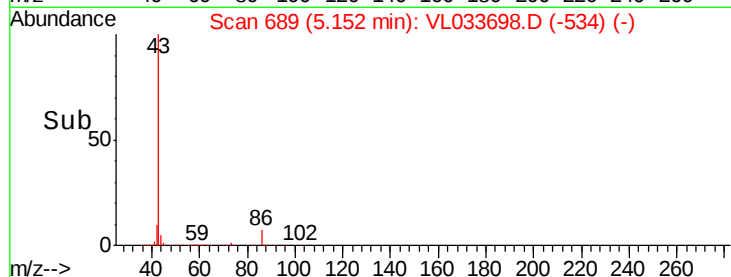
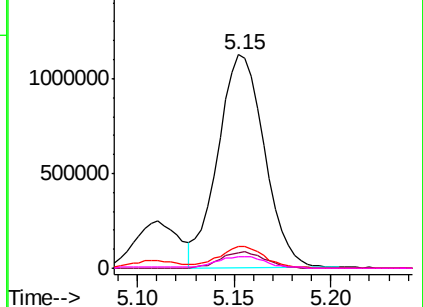


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 10.380 ppbv

RT: 5.09 min Scan# 670

Delta R.T. 0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

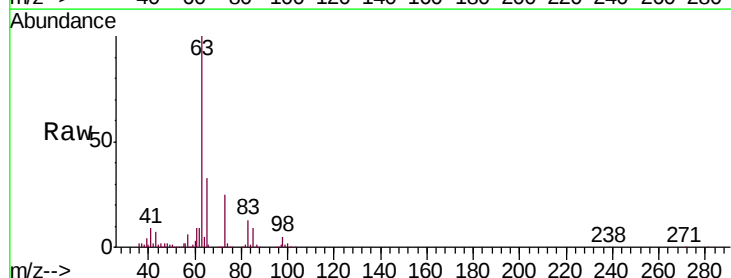
Tgt Ion: 63 Resp: 1298347

Ion Ratio Lower Upper

63 100

98 4.6 2.1 6.2

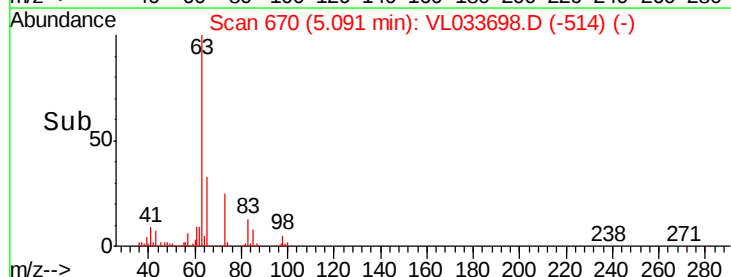
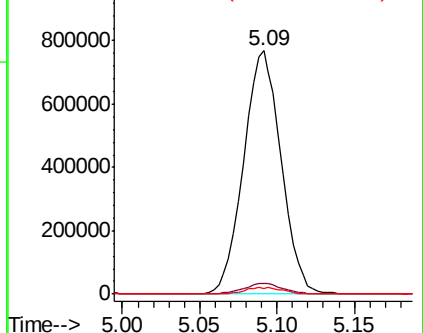
100 2.4 1.5 4.4

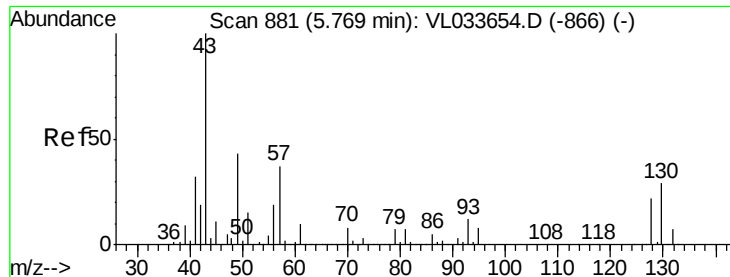


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 10.837 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 2243502

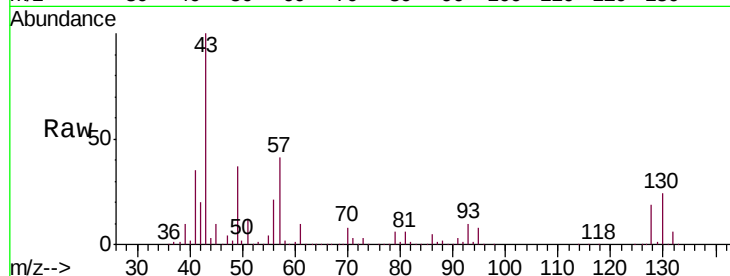
Ion Ratio Lower Upper

43 100

45 10.1 8.0 12.0

61 9.4 7.5 11.3

70 7.3 5.8 8.8

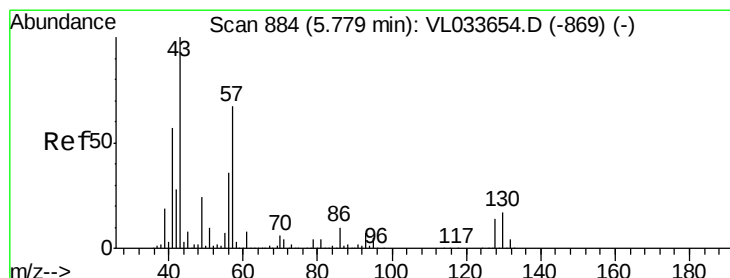
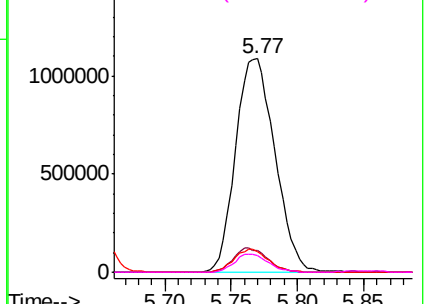
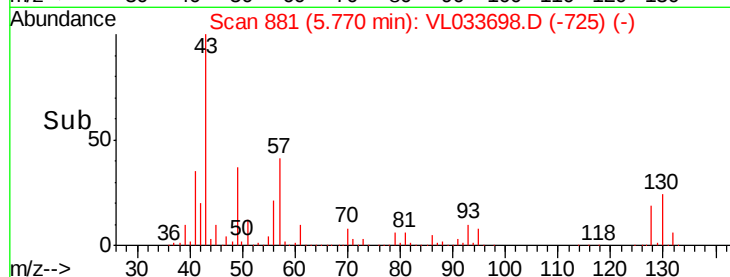


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 11.072 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

Tgt Ion: 57 Resp: 985290

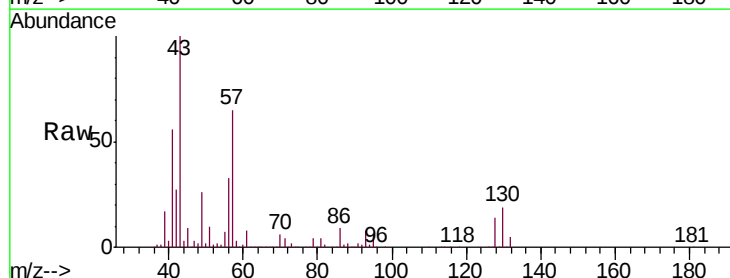
Ion Ratio Lower Upper

57 100

41 86.7 69.7 104.5

43 228.7 181.9 272.9

56 52.9 42.5 63.7

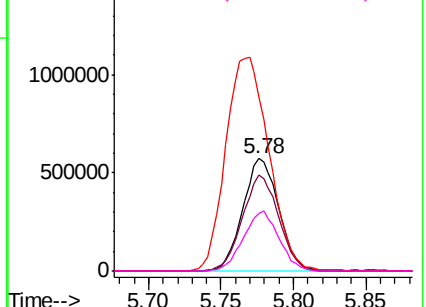
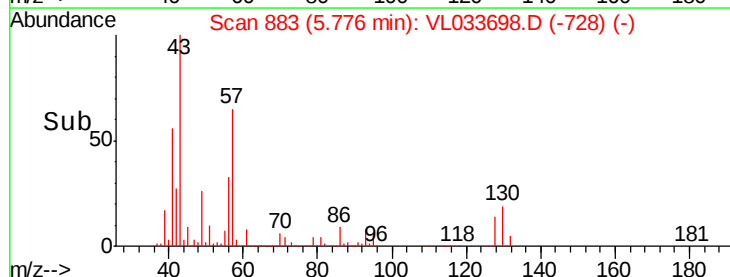


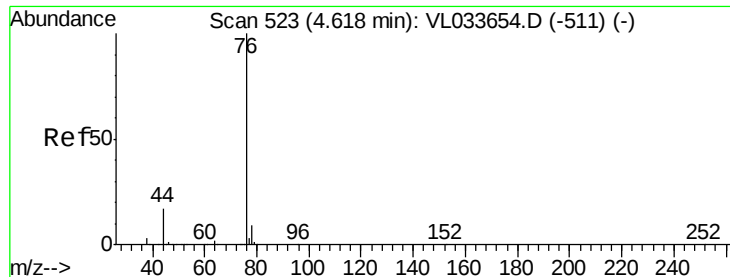
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 11.449 ppbv

RT: 4.62 min Scan# 523

Delta R.T. 0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

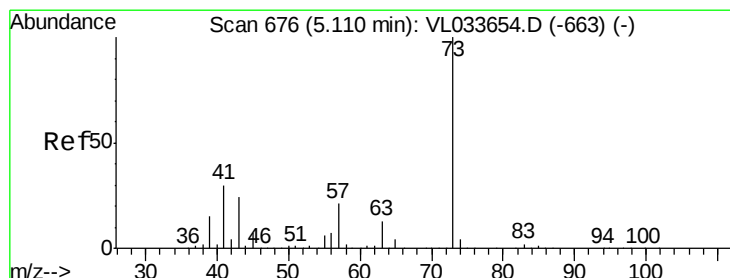
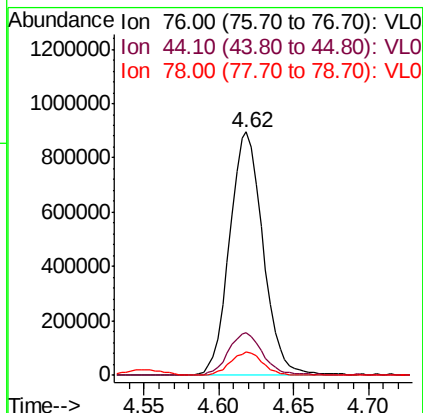
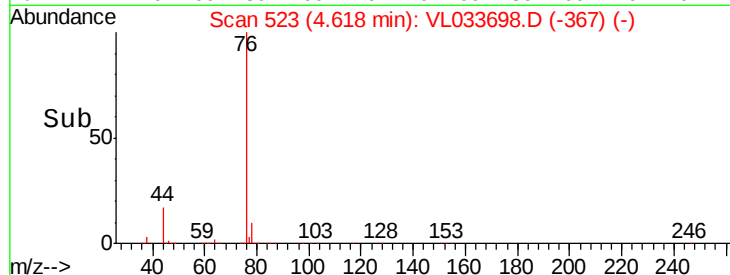
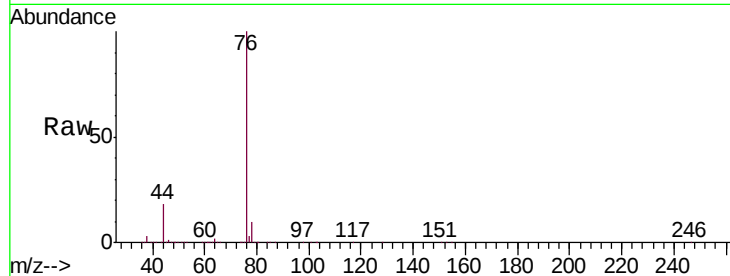
Tgt Ion: 76 Resp: 1393596

Ion Ratio Lower Upper

76 100

44 17.5 14.4 21.6

78 9.4 7.4 11.2



#28

Methyl tert-Butyl Ether

Concen: 11.317 ppbv

RT: 5.11 min Scan# 676

Delta R.T. 0.00 min

Lab File: VL033698.D

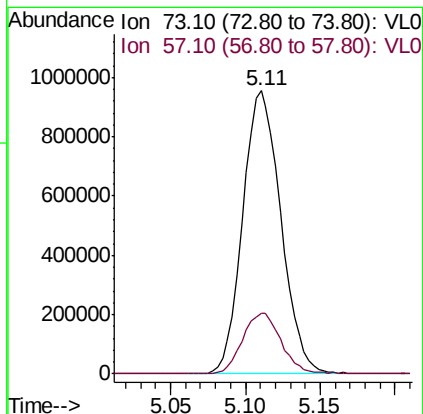
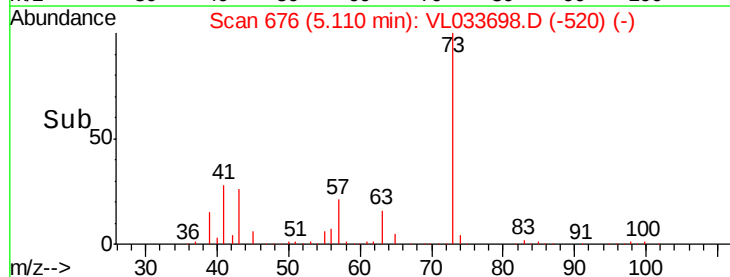
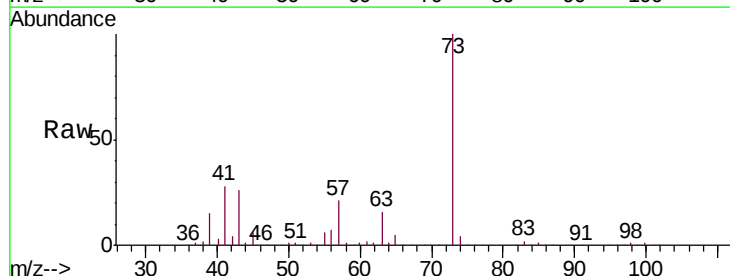
Acq: 14 May 2019 19:32

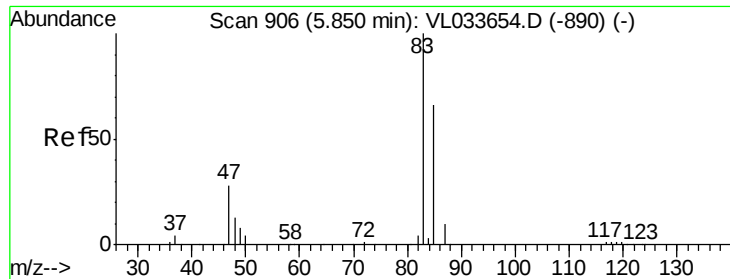
Tgt Ion: 73 Resp: 1696209

Ion Ratio Lower Upper

73 100

57 21.8 17.4 26.0

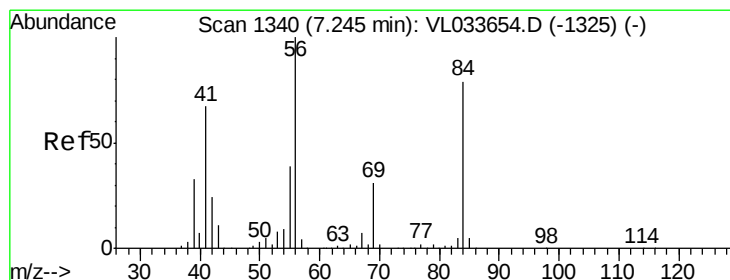
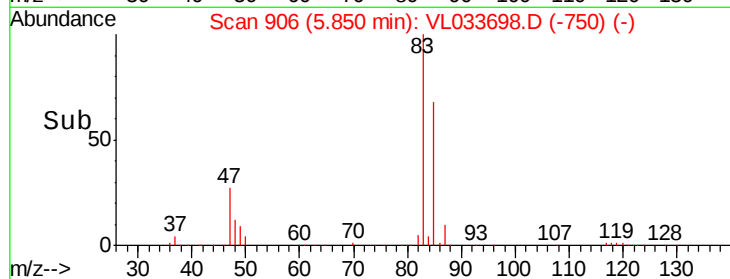
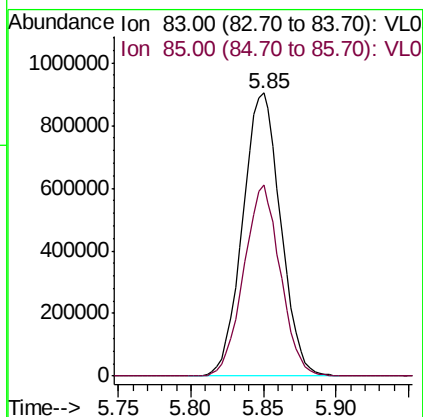
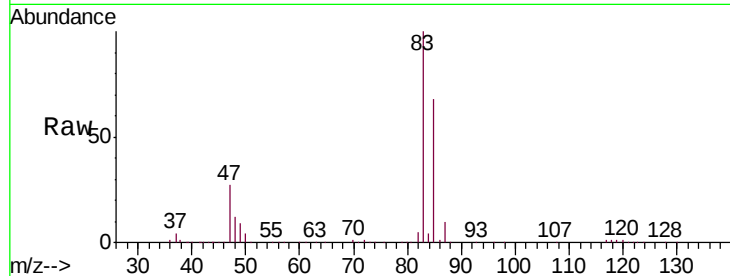




#29
Chloroform
Concen: 10.275 ppbv
RT: 5.85 min Scan# 906
Delta R.T. 0.00 min
Lab File: VL033698.D
Acq: 14 May 2019 19:32

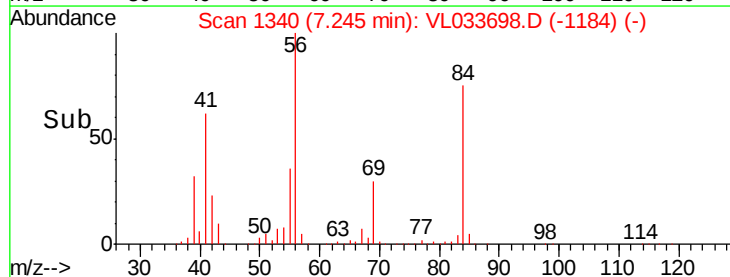
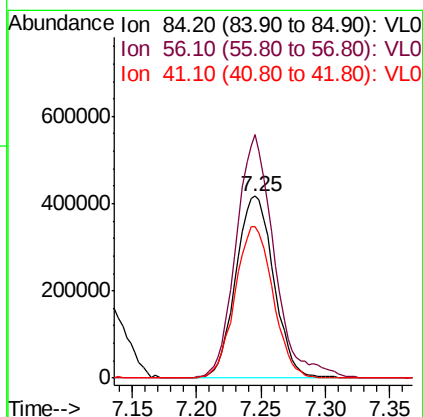
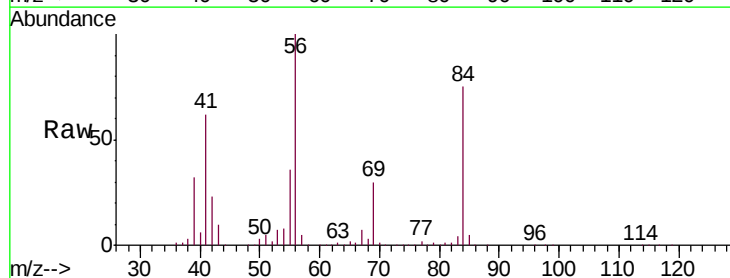
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

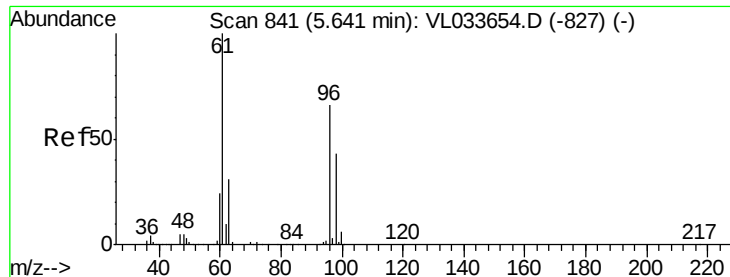
Tgt Ion: 83 Resp: 1644040
Ion Ratio Lower Upper
83 100
85 67.6 52.6 78.8



#30
Cyclohexane
Concen: 11.466 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VL033698.D
Acq: 14 May 2019 19:32

Tgt Ion: 84 Resp: 856923
Ion Ratio Lower Upper
84 100
56 134.4 107.0 160.4
41 83.2 66.6 99.8



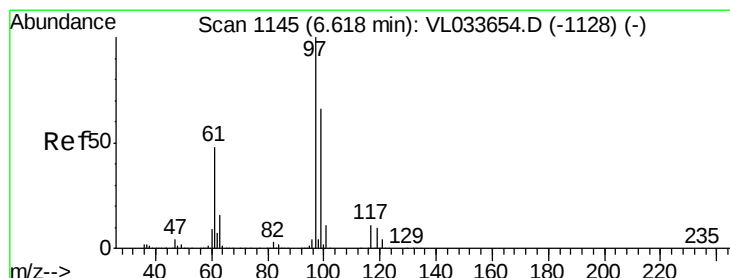
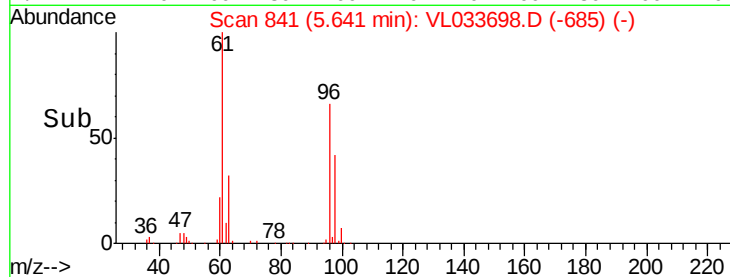
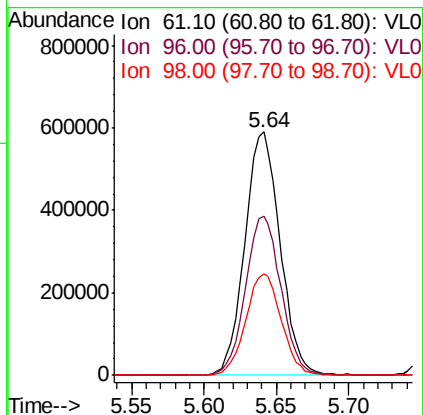
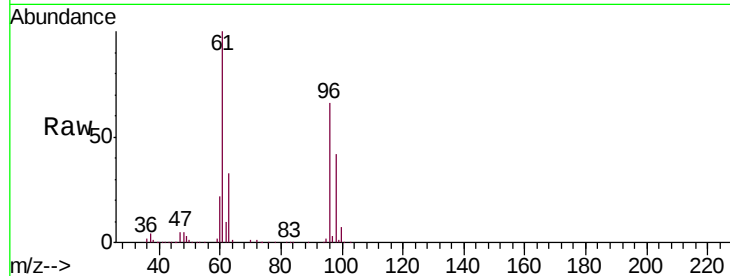


#31

cis-1,2-Dichloroethene
 Concen: 11.279 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. 0.00 min
 Lab File: VL033698.D
 Acq: 14 May 2019 19:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

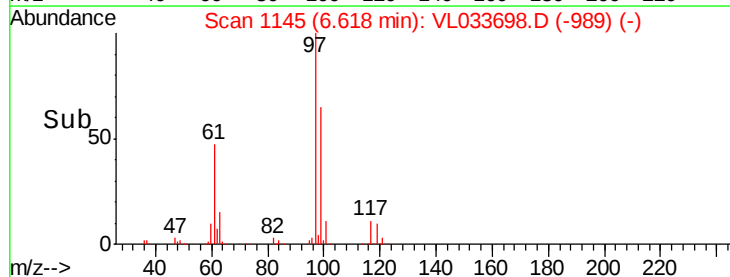
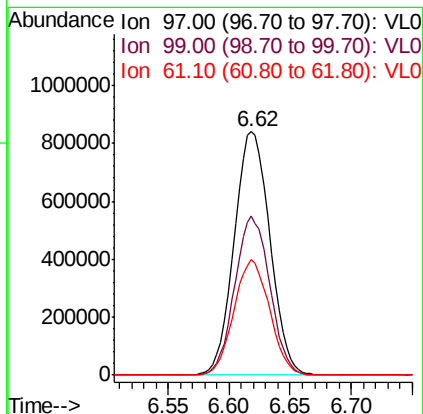
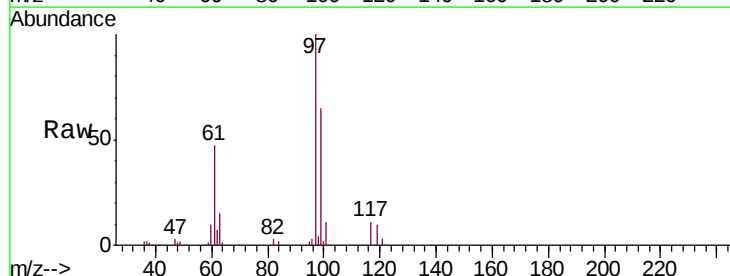
Tgt Ion	Ratio	Lower	Upper
61	100		
96	65.6	53.2	79.8
98	41.6	34.2	51.4

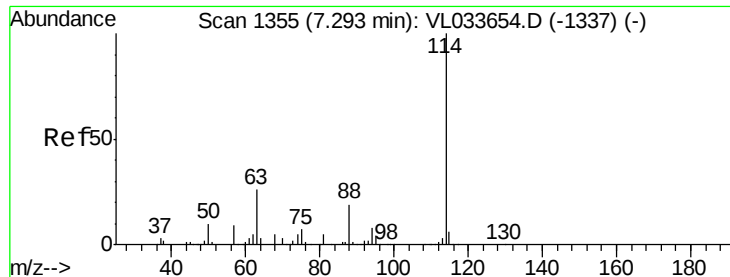


#32

1,1,1-Trichloroethane
 Concen: 10.323 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. 0.00 min
 Lab File: VL033698.D
 Acq: 14 May 2019 19:32

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.4	77.2
61	47.3	38.5	57.7

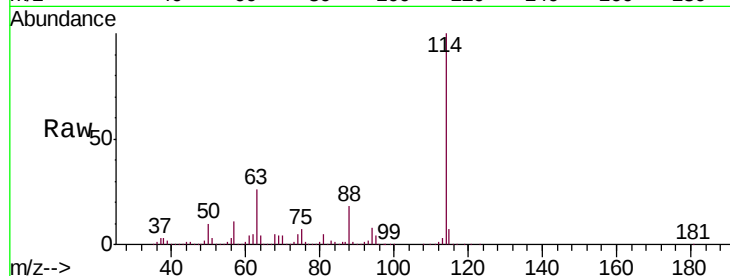




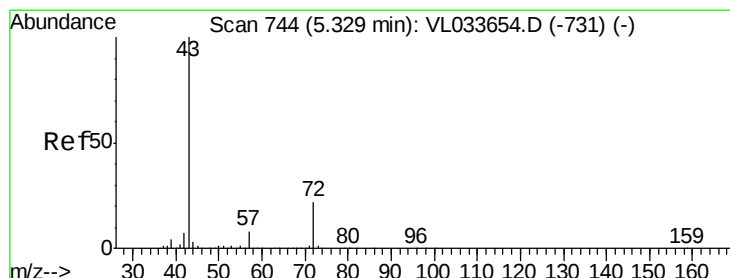
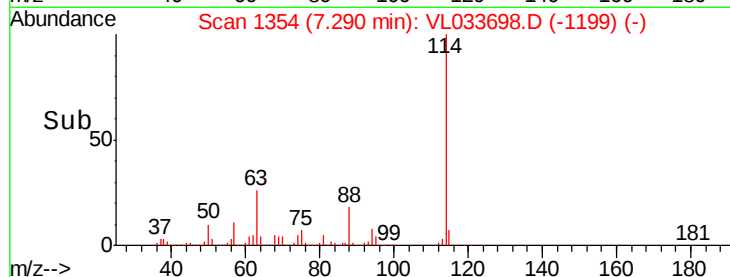
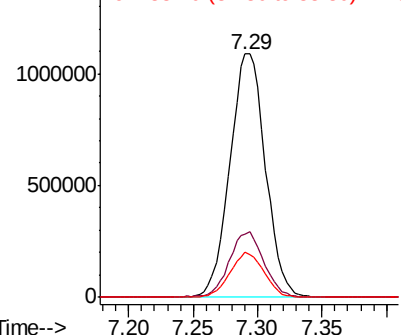
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.00 min
 Lab File: VL033698.D
 Acq: 14 May 2019 19:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 114 Resp: 2089614
 Ion Ratio Lower Upper
 114 100
 63 26.6 21.3 31.9
 88 17.8 14.4 21.6

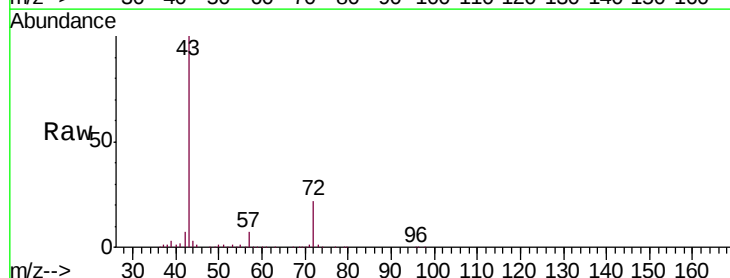


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

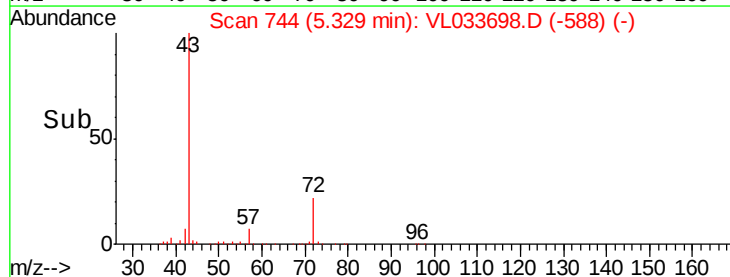
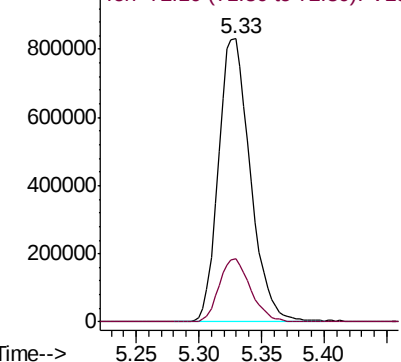


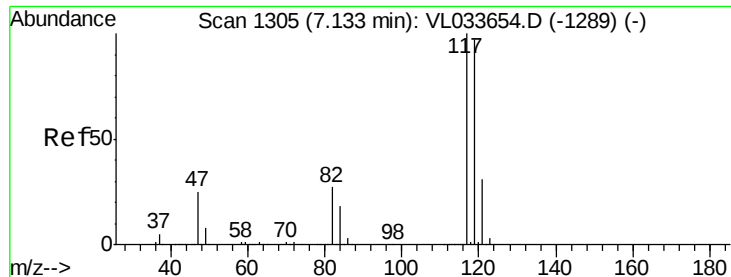
#34
 2-Butanone
 Concen: 10.931 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. 0.00 min
 Lab File: VL033698.D
 Acq: 14 May 2019 19:32

Tgt Ion: 43 Resp: 1462730
 Ion Ratio Lower Upper
 43 100
 72 22.2 17.5 26.3



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

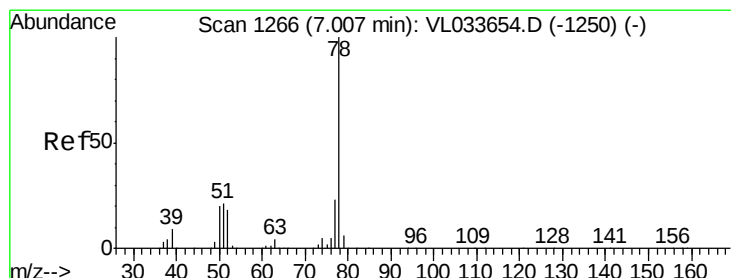
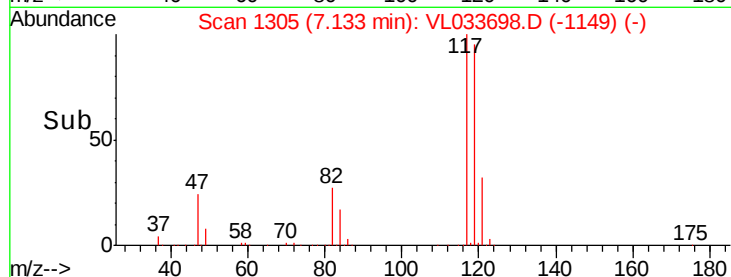
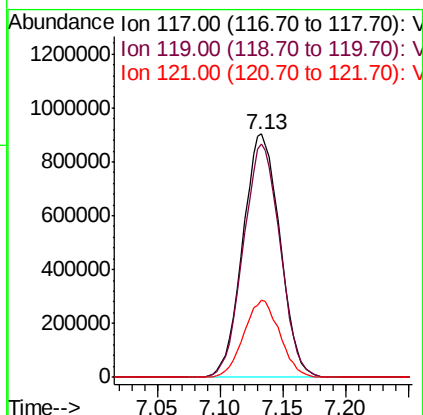
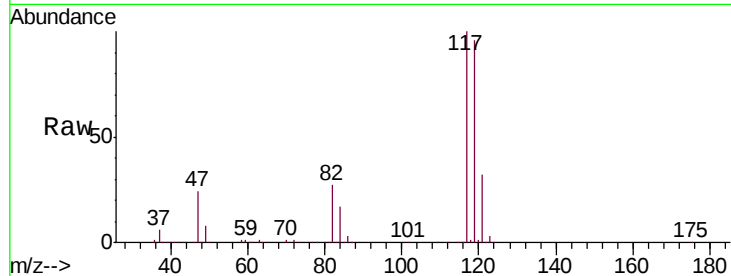




#35
Carbon Tetrachloride
Concen: 10.814 ppbv
RT: 7.13 min Scan# 1305
Delta R.T. 0.00 min
Lab File: VL033698.D
Acq: 14 May 2019 19:32

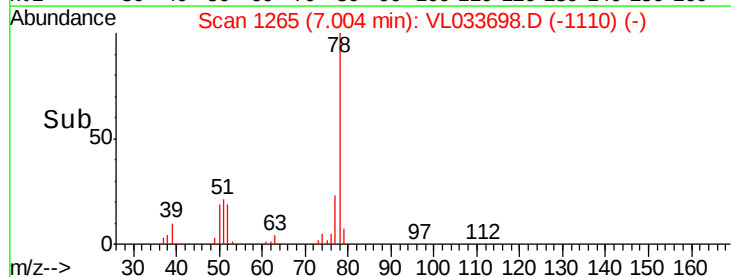
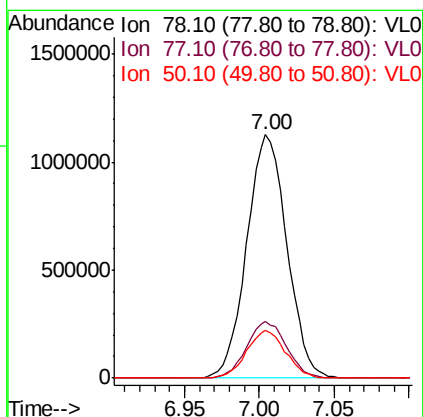
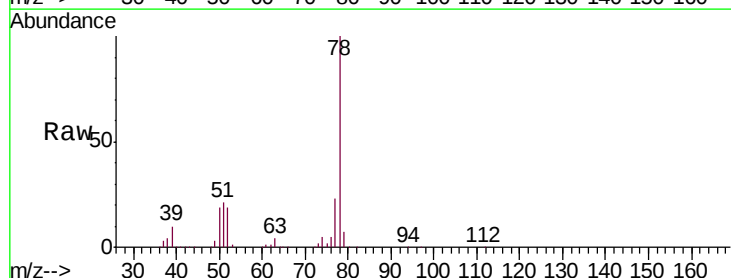
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

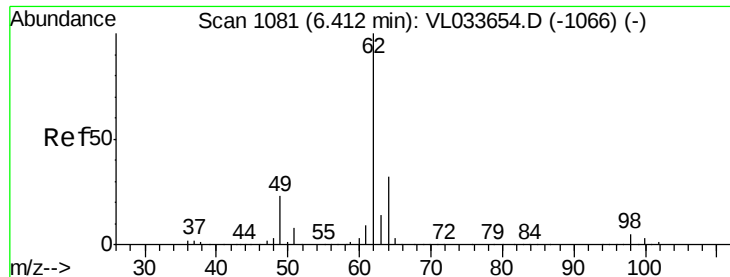
Tgt Ion:117 Resp: 1857244
Ion Ratio Lower Upper
117 100
119 95.8 77.9 116.9
121 31.9 25.0 37.6



#36
Benzene
Concen: 11.209 ppbv
RT: 7.00 min Scan# 1265
Delta R.T. -0.00 min
Lab File: VL033698.D
Acq: 14 May 2019 19:32

Tgt Ion: 78 Resp: 2100317
Ion Ratio Lower Upper
78 100
77 23.4 18.2 27.2
50 19.4 15.8 23.6

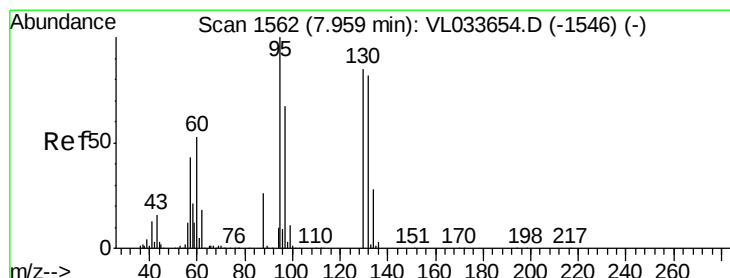
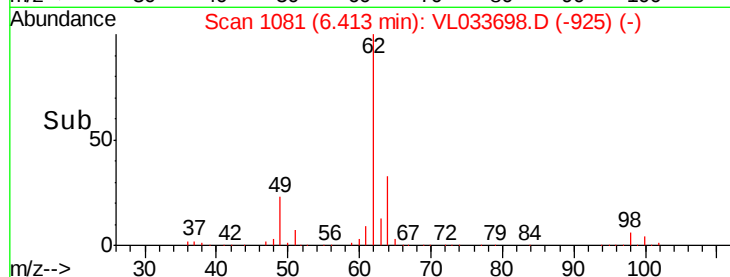
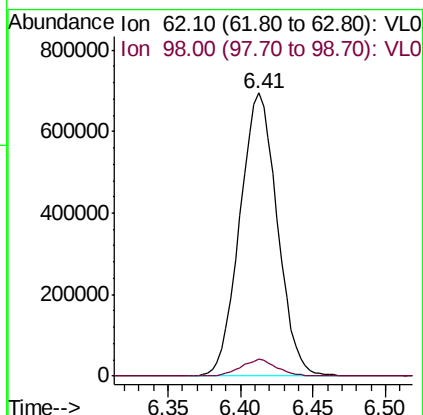
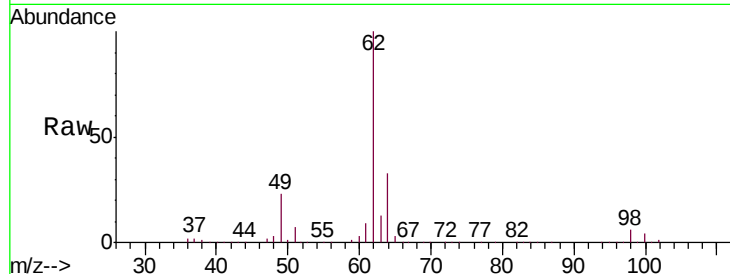




#37
 1,2-Dichloroethane
 Concen: 9.563 ppbv
 RT: 6.41 min Scan# 1081
 Delta R.T. 0.00 min
 Lab File: VL033698.D
 Acq: 14 May 2019 19:32

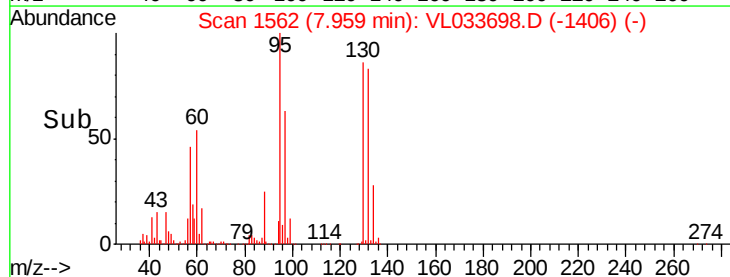
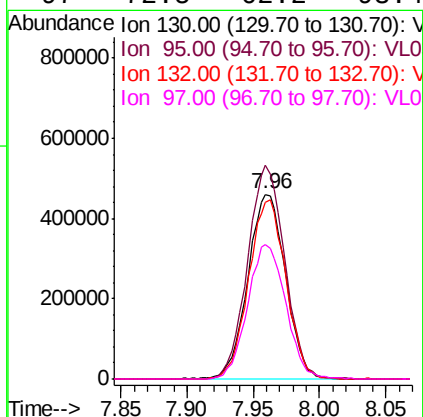
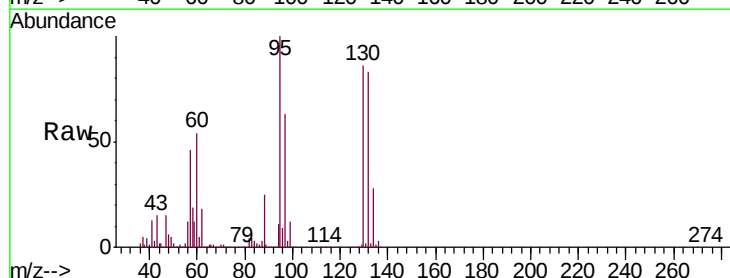
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

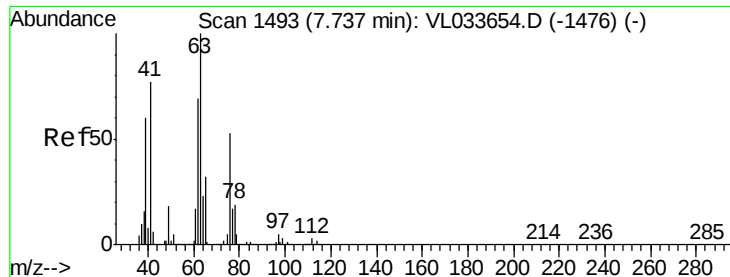
Tgt Ion: 62 Resp: 1250295
 Ion Ratio Lower Upper
 62 100
 98 5.7 4.5 6.7



#38
 Trichloroethene
 Concen: 13.245 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. 0.00 min
 Lab File: VL033698.D
 Acq: 14 May 2019 19:32

Tgt Ion: 130 Resp: 910391
 Ion Ratio Lower Upper
 130 100
 95 115.8 93.4 140.0
 132 96.0 76.2 114.4
 97 72.5 62.2 93.4





#39

1,2-Dichloropropane

Concen: 12.038 ppbv

RT: 7.73 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

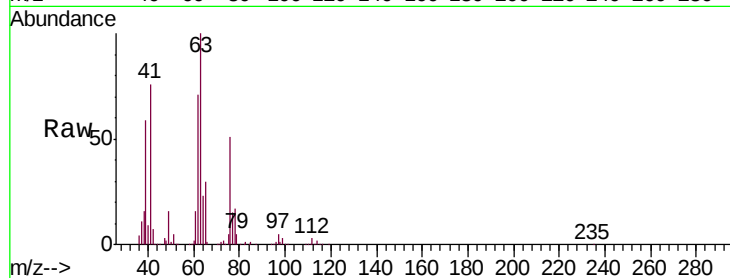
Tgt Ion: 63 Resp: 840637

Ion Ratio Lower Upper

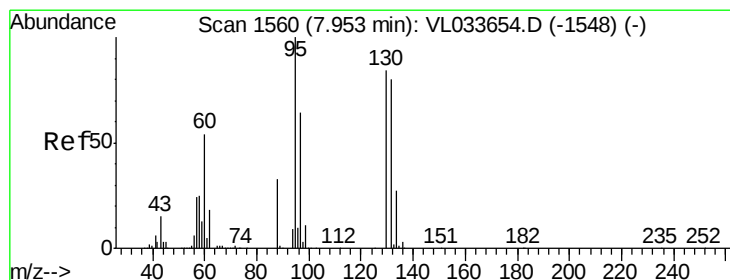
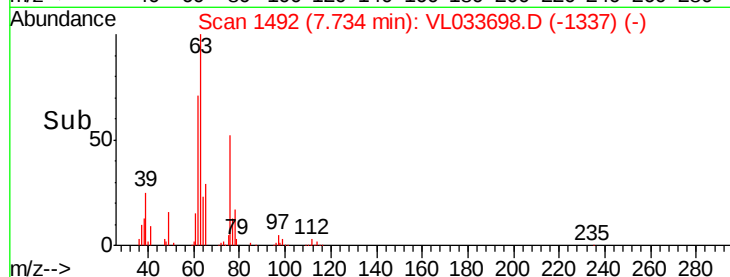
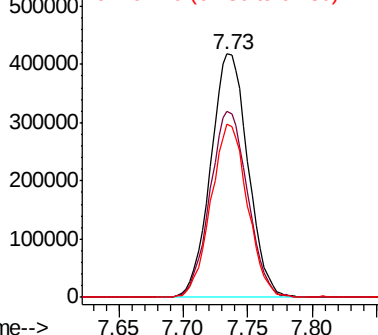
63 100

41 76.4 61.6 92.4

62 70.9 55.0 82.6



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: 12.182 ppbv

RT: 7.95 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

Tgt Ion: 88 Resp: 339993

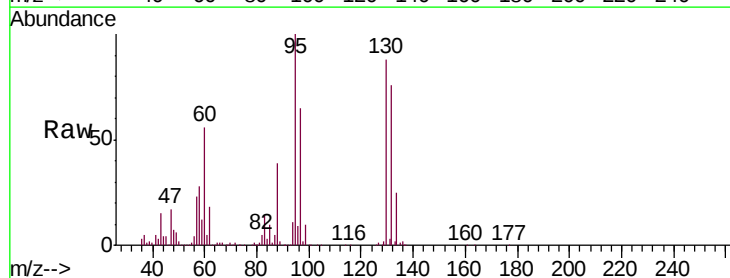
Ion Ratio Lower Upper

88 100

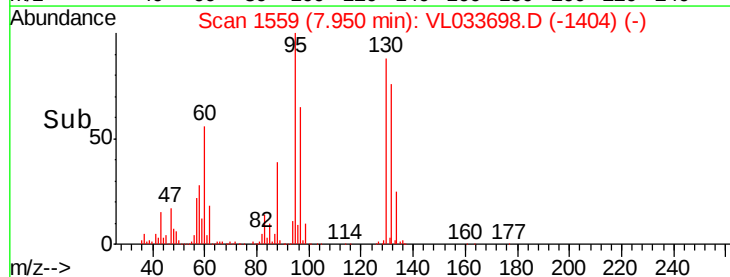
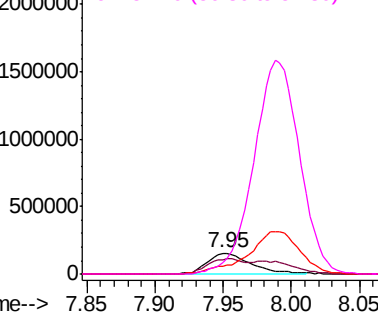
58 123.0 102.3 153.5

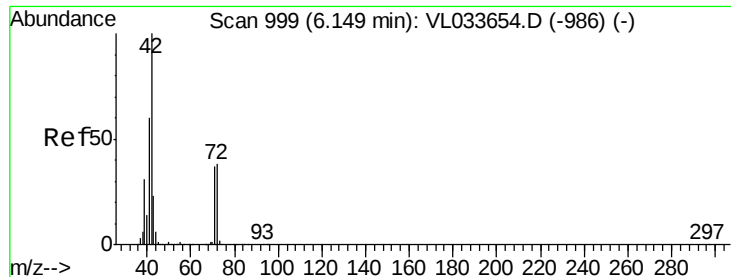
43 245.8 206.1 309.1

57 1092.1 910.6 1366.0



Abundance Ion 88.10 (87.80 to 88.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 57.10 (56.80 to 57.80): VL0

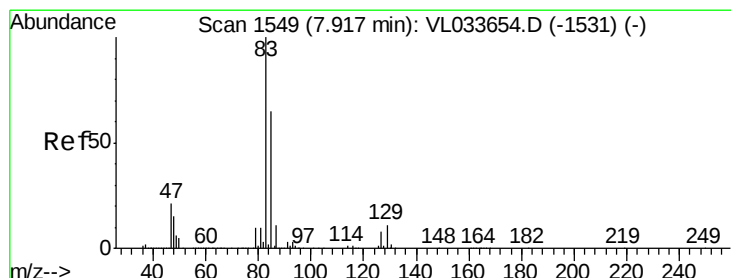
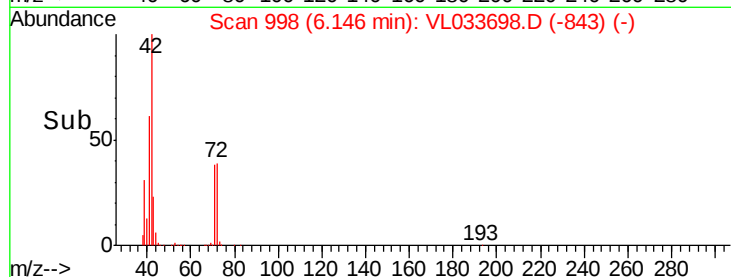
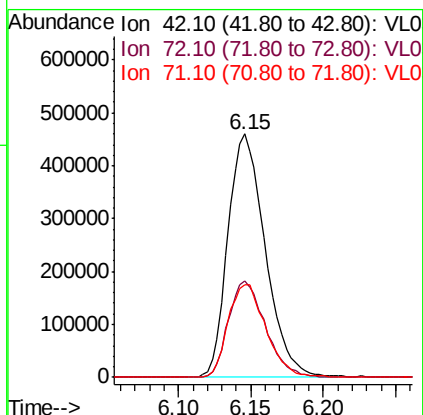
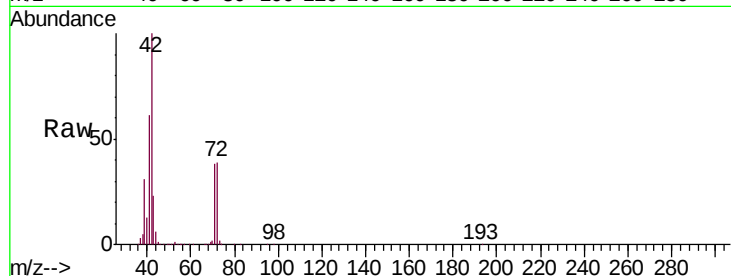




#41
Tetrahydrofuran
Concen: 11.934 ppbv
RT: 6.15 min Scan# 998
Delta R.T. -0.00 min
Lab File: VL033698.D
Acq: 14 May 2019 19:32

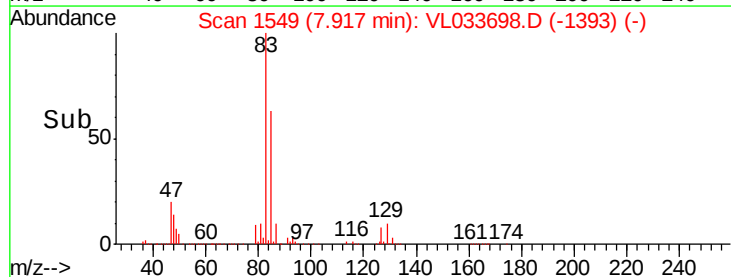
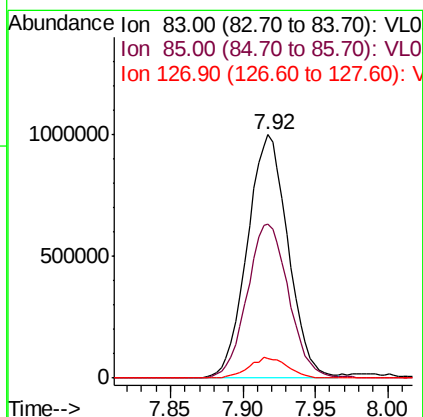
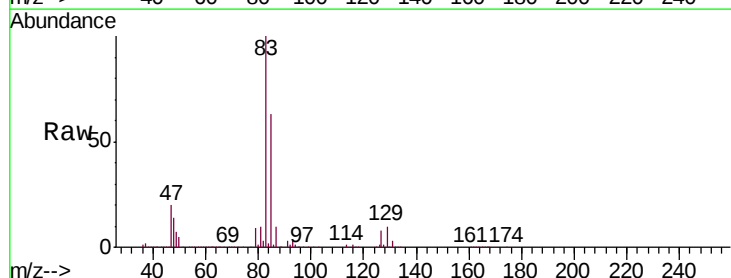
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

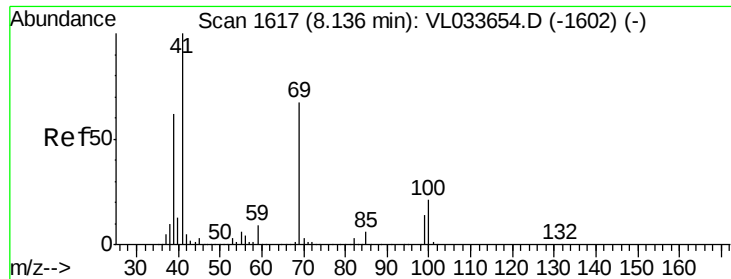
Tgt Ion: 42 Resp: 825226
Ion Ratio Lower Upper
42 100
72 39.4 31.6 47.4
71 38.6 30.6 46.0



#42
Bromodichloromethane
Concen: 11.587 ppbv
RT: 7.92 min Scan# 1549
Delta R.T. 0.00 min
Lab File: VL033698.D
Acq: 14 May 2019 19:32

Tgt Ion: 83 Resp: 1955978
Ion Ratio Lower Upper
83 100
85 63.4 52.4 78.6
127 8.0 6.6 9.8

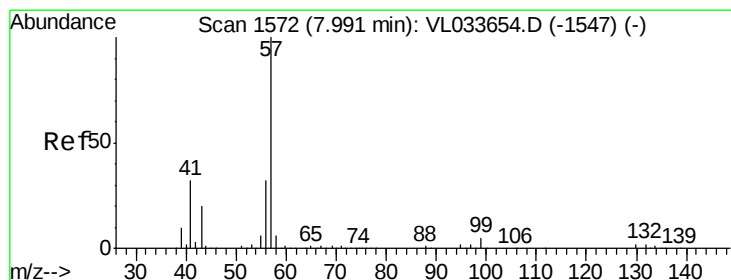
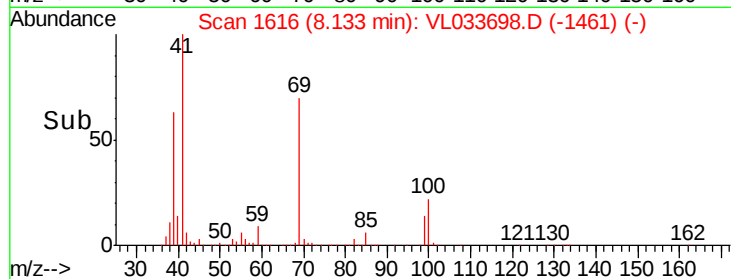
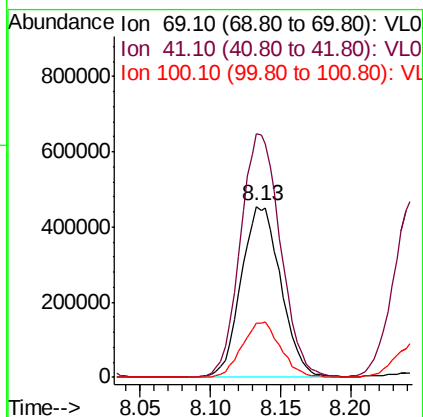
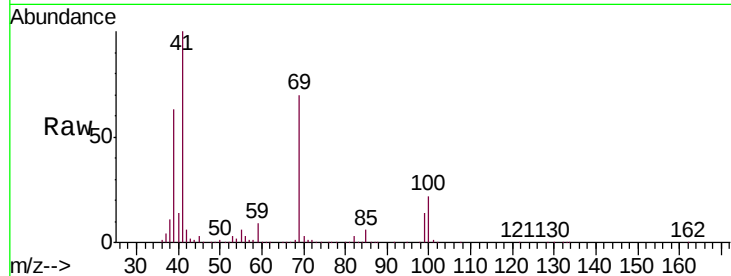




#43
Methyl Methacrylate
Concen: 12.694 ppbv
RT: 8.13 min Scan# 1616
Delta R.T. -0.00 min
Lab File: VL033698.D
Acq: 14 May 2019 19:32

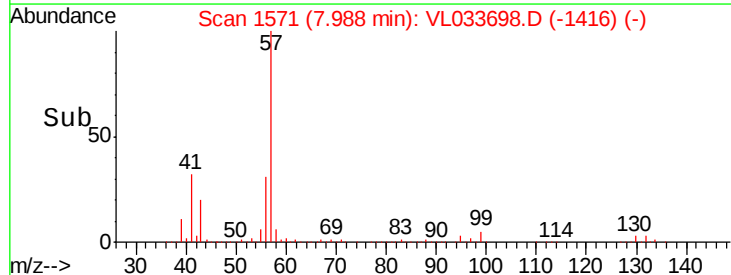
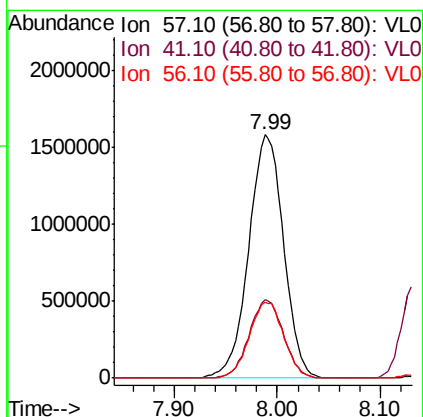
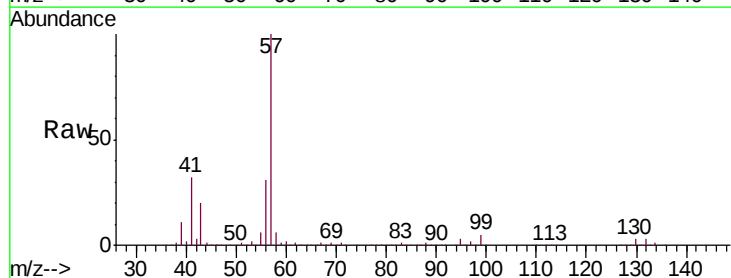
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

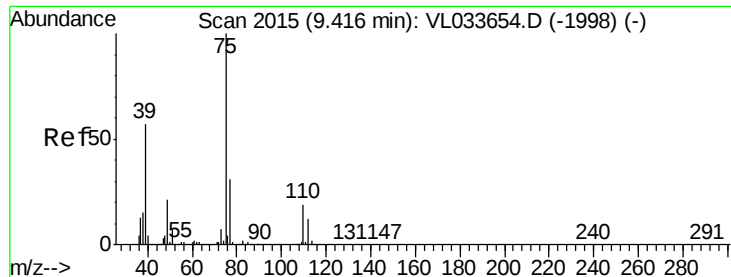
Tgt Ion: 69 Resp: 894655
Ion Ratio Lower Upper
69 100
41 144.2 116.6 175.0
100 31.5 24.6 37.0



#44
2,2,4-Trimethylpentane
Concen: 11.577 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VL033698.D
Acq: 14 May 2019 19:32

Tgt Ion: 57 Resp: 3709148
Ion Ratio Lower Upper
57 100
41 31.7 25.7 38.5
56 30.9 25.0 37.6





#45

t-1,3-Dichloropropene

Concen: 13.962 ppbv

RT: 9.42 min Scan# 2015

Delta R.T. 0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

Instrument :

MSVOA_L

ClientSampleId :

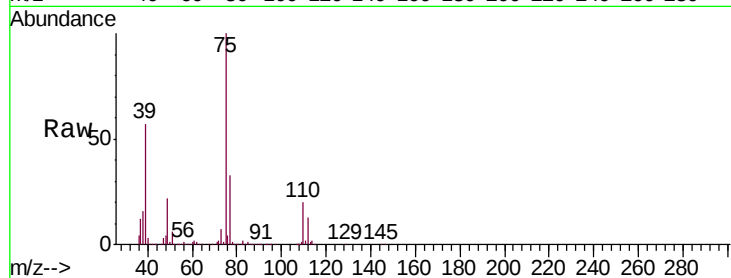
VSTDCCC010EC

Tgt Ion: 75 Resp: 1207777

Ion Ratio Lower Upper

75 100

77 32.8 24.7 37.1



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.42

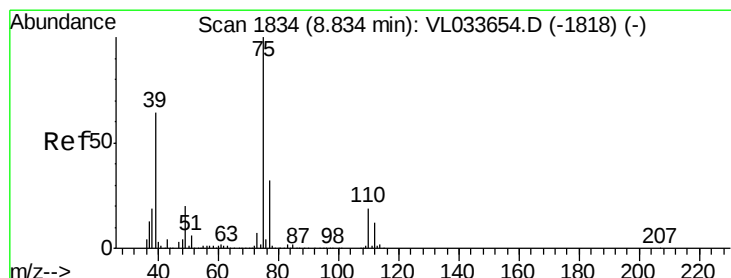
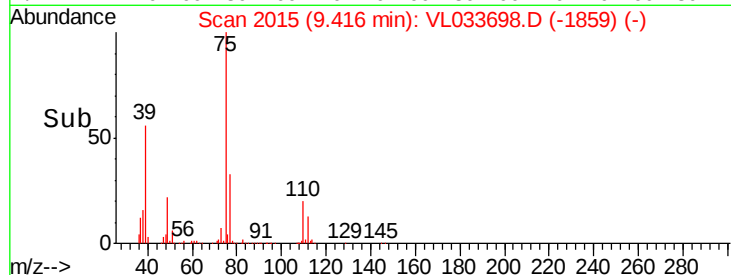
600000

400000

200000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 12.740 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

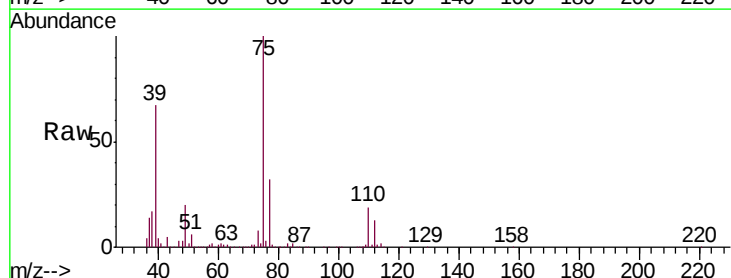
Tgt Ion: 75 Resp: 1375476

Ion Ratio Lower Upper

75 100

39 66.8 51.5 77.3

77 31.7 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

8.83

800000

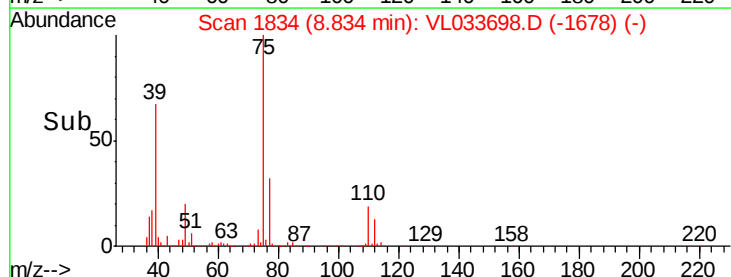
600000

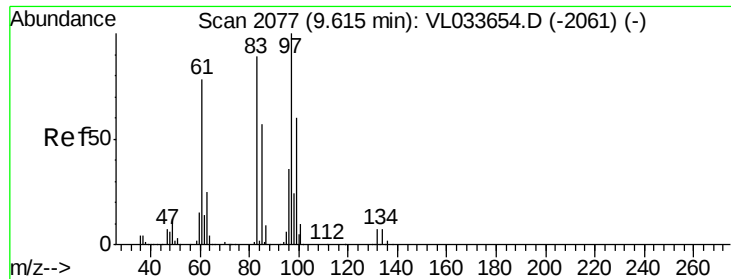
400000

200000

0

Time-->

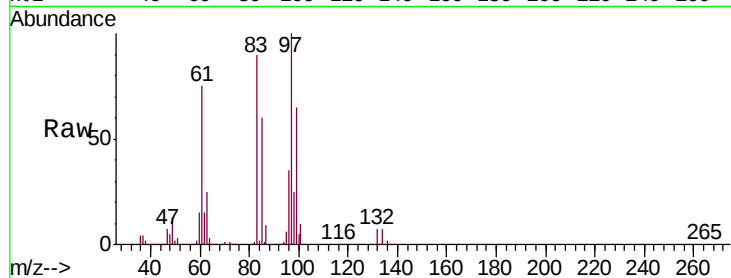




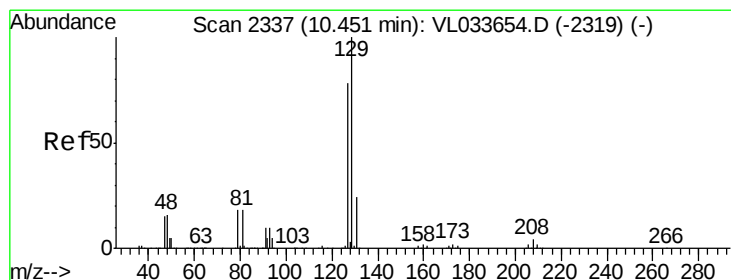
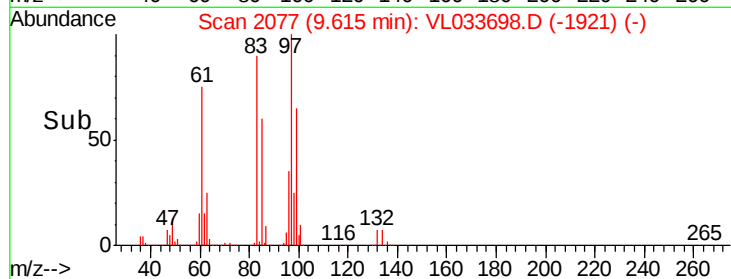
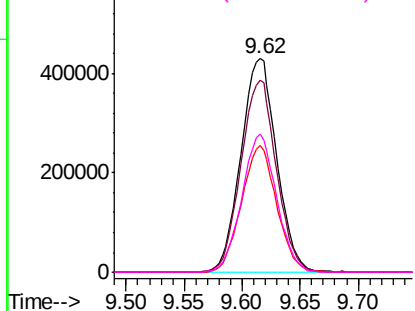
#47
 1,1,2-Trichloroethane
 Concen: 11.524 ppbv
 RT: 9.62 min Scan# 2077
 Delta R.T. 0.00 min
 Lab File: VL033698.D
 Acq: 14 May 2019 19:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 97 Resp: 924210
 Ion Ratio Lower Upper
 97 100
 83 90.1 70.9 106.3
 85 59.5 45.8 68.6
 99 64.8 48.2 72.4

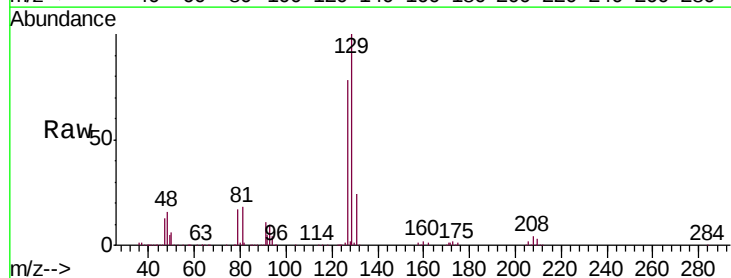


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

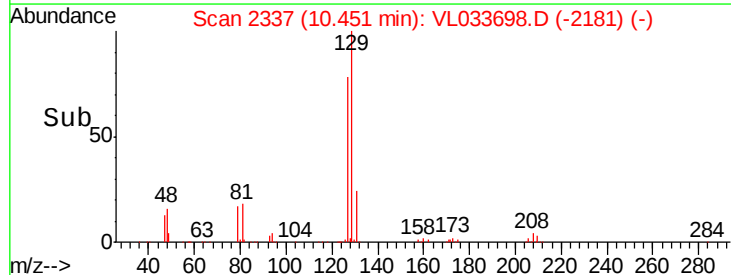
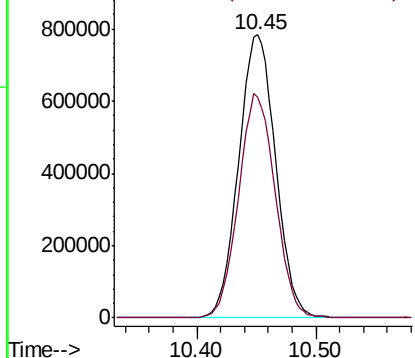


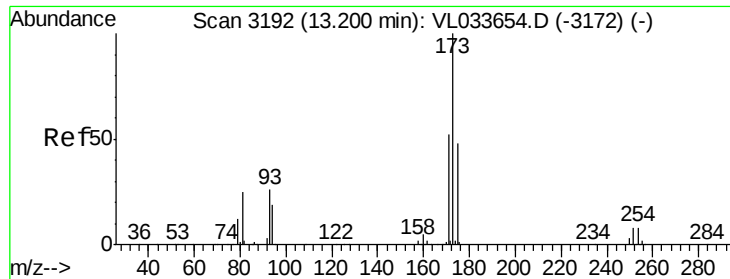
#48
 Dibromochloromethane
 Concen: 12.400 ppbv
 RT: 10.45 min Scan# 2337
 Delta R.T. 0.00 min
 Lab File: VL033698.D
 Acq: 14 May 2019 19:32

Tgt Ion: 129 Resp: 1685791
 Ion Ratio Lower Upper
 129 100
 127 78.5 39.1 117.2



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





#49

Bromoform

Concen: 12.388 ppbv

RT: 13.20 min Scan# 3192

Delta R.T. 0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

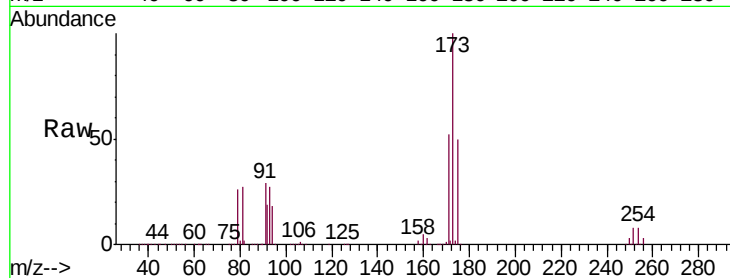
Tgt Ion:173 Resp: 1462905

Ion Ratio Lower Upper

173 100

175 49.3 39.3 58.9

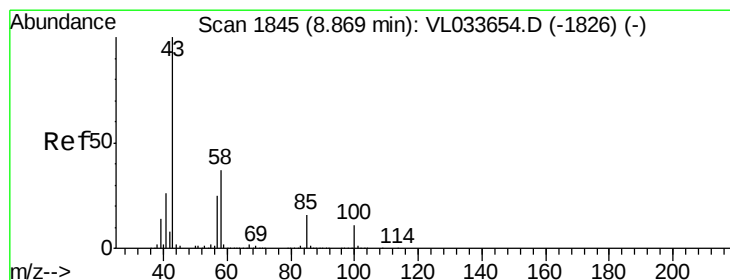
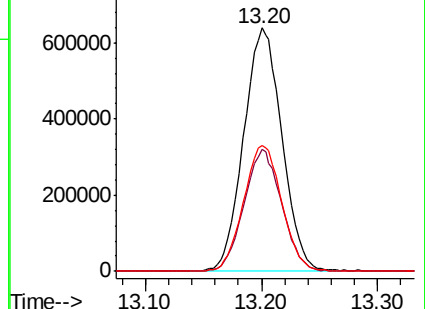
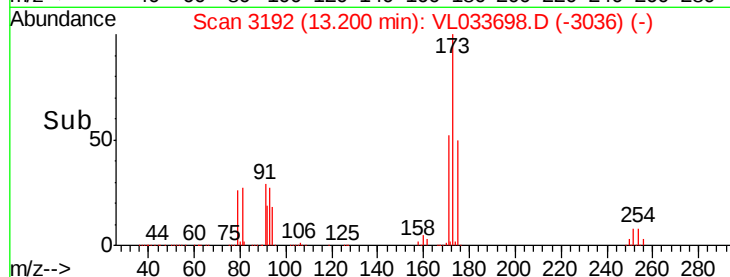
171 51.9 41.5 62.3



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 11.784 ppbv

RT: 8.87 min Scan# 1844

Delta R.T. -0.00 min

Lab File: VL033698.D

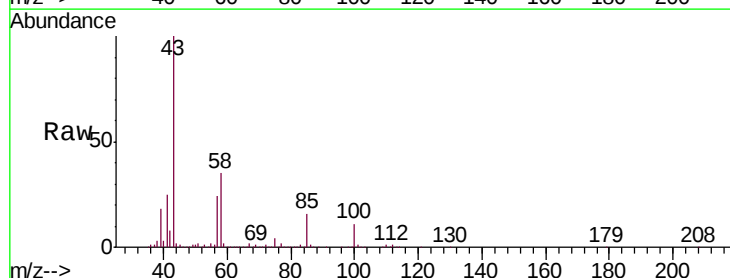
Acq: 14 May 2019 19:32

Tgt Ion: 43 Resp: 2387663

Ion Ratio Lower Upper

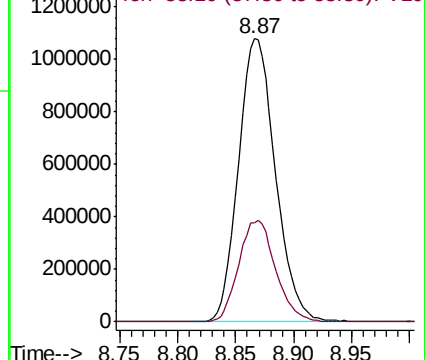
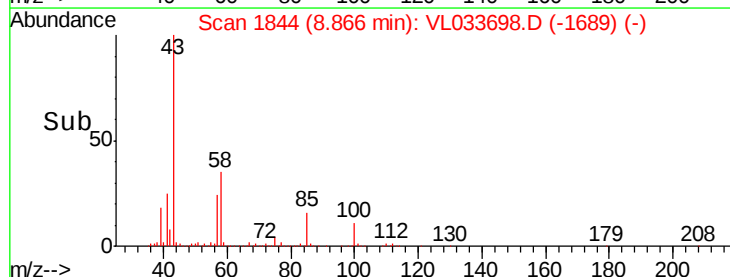
43 100

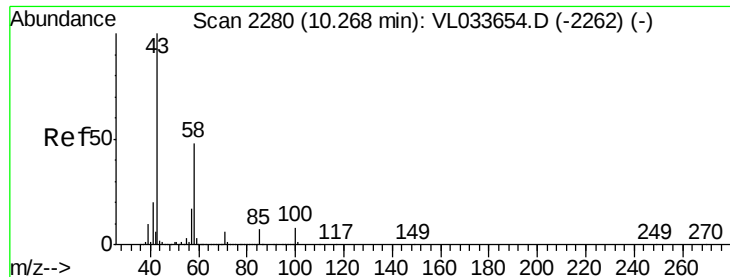
58 35.9 28.8 43.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

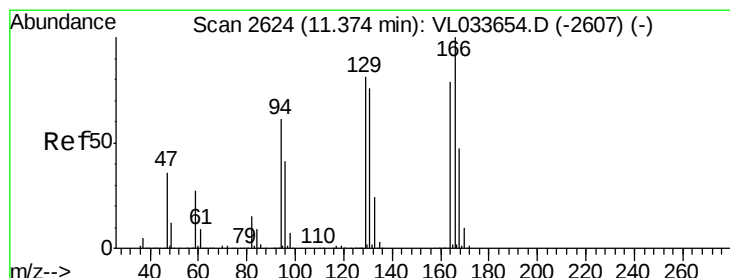
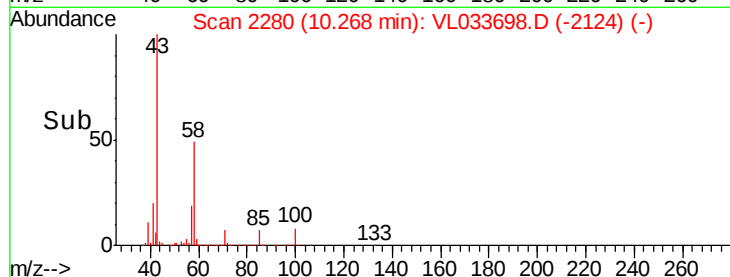
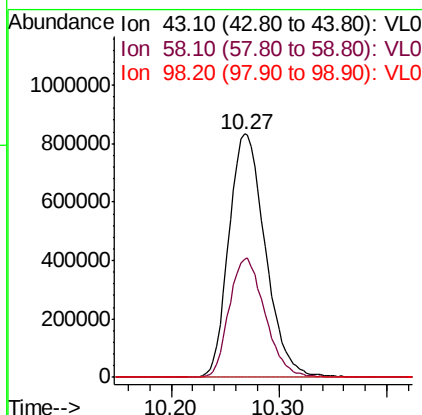
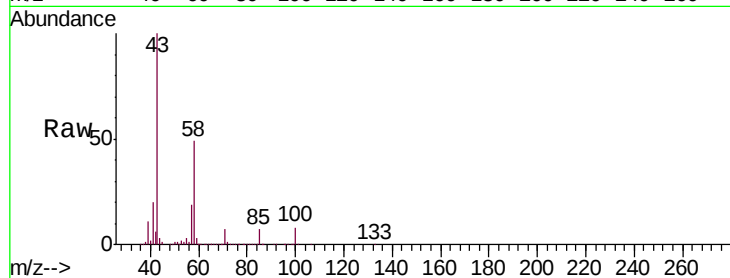




#51
2-Hexanone
Concen: 12.474 ppbv
RT: 10.27 min Scan# 2280
Delta R.T. 0.00 min
Lab File: VL033698.D
Acq: 14 May 2019 19:32

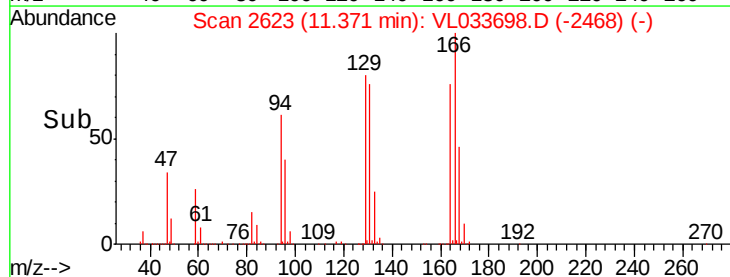
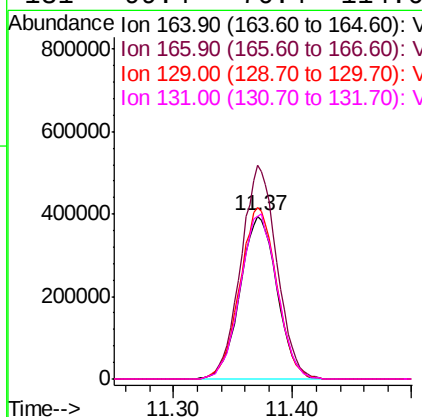
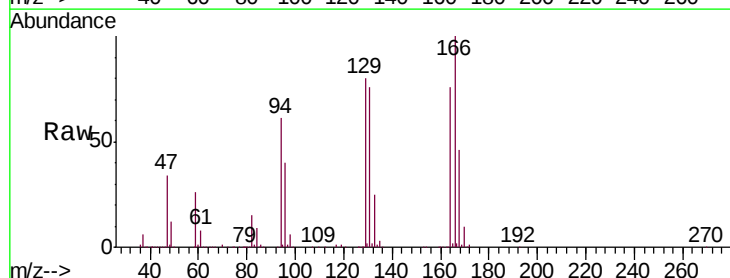
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

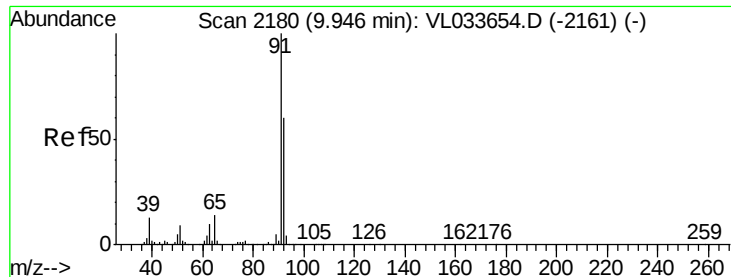
Tgt Ion: 43 Resp: 1958023
Ion Ratio Lower Upper
43 100
58 48.3 38.2 57.4
98 0.2 0.2 0.4#



#52
Tetrachloroethene
Concen: 12.740 ppbv
RT: 11.37 min Scan# 2623
Delta R.T. -0.00 min
Lab File: VL033698.D
Acq: 14 May 2019 19:32

Tgt Ion: 164 Resp: 845733
Ion Ratio Lower Upper
164 100
166 130.8 100.6 151.0
129 105.2 81.0 121.6
131 99.4 76.4 114.6





#53

Toluene

Concen: 12.811 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. 0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

Instrument :

MSVOA_L

ClientSampleId :

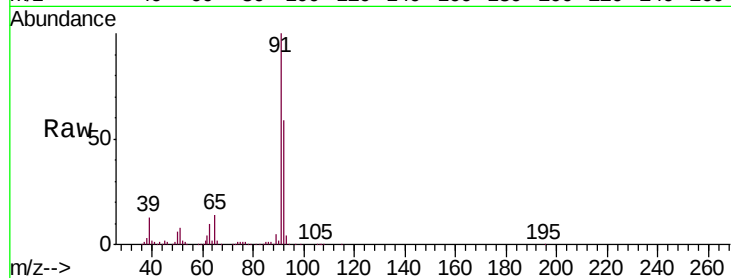
VSTDCCC010EC

Tgt Ion: 91 Resp: 2593566

Ion Ratio Lower Upper

91 100

92 59.7 47.7 71.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

1500000 Ion 92.10 (91.80 to 92.80): VL0

9.95

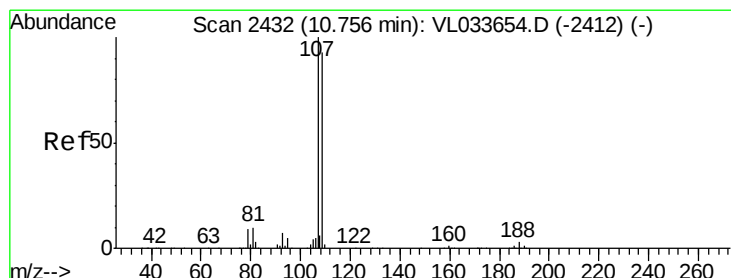
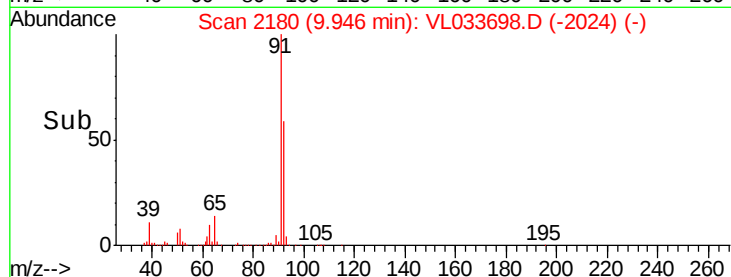
1000000

500000

0

9.90 10.00

Time-->



#54

1,2-Dibromoethane

Concen: 12.152 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. 0.00 min

Lab File: VL033698.D

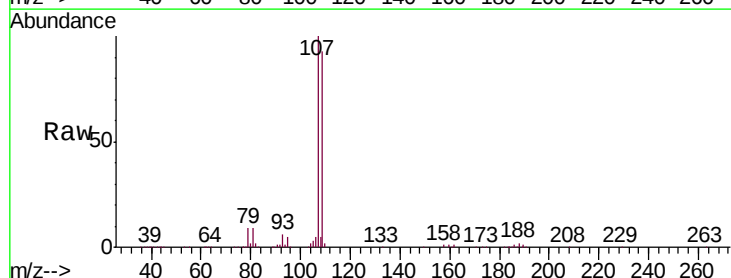
Acq: 14 May 2019 19:32

Tgt Ion: 107 Resp: 1467952

Ion Ratio Lower Upper

107 100

109 92.6 74.6 111.8



Abundance Ion 107.00 (106.70 to 107.70): V

800000 Ion 109.00 (108.70 to 109.70): V

10.76

600000

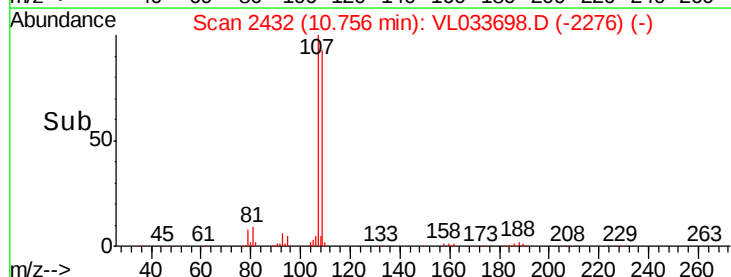
400000

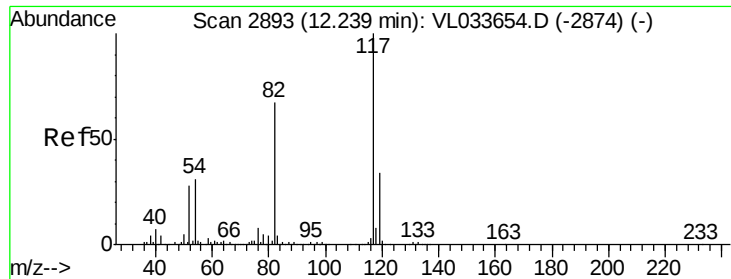
200000

0

10.70 10.80

Time-->

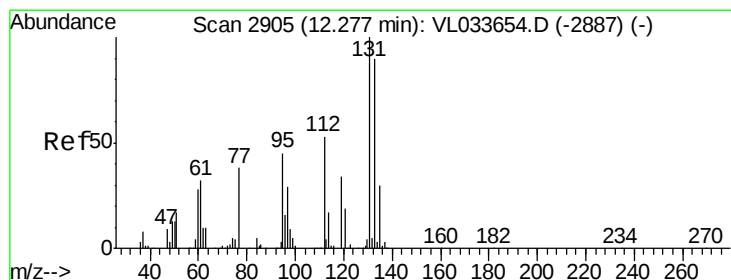
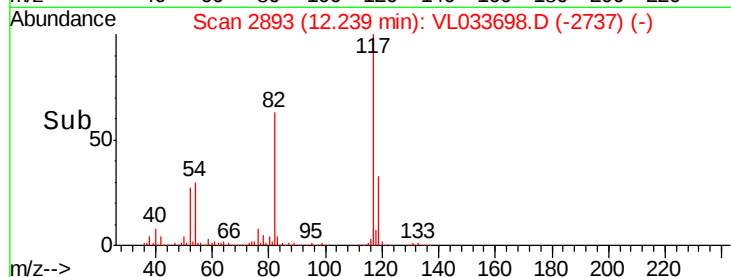
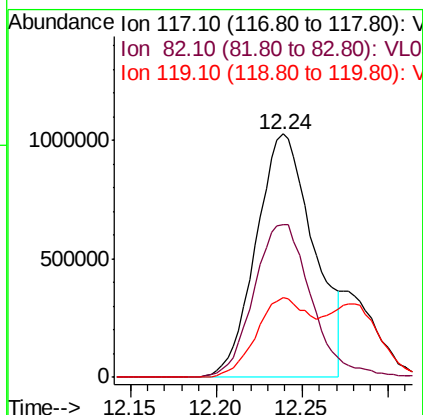
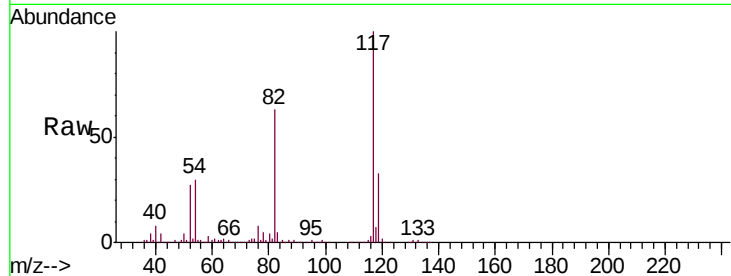




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. 0.00 min
Lab File: VL033698.D
Acq: 14 May 2019 19:32

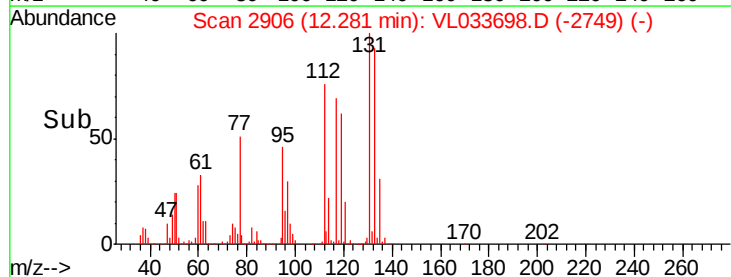
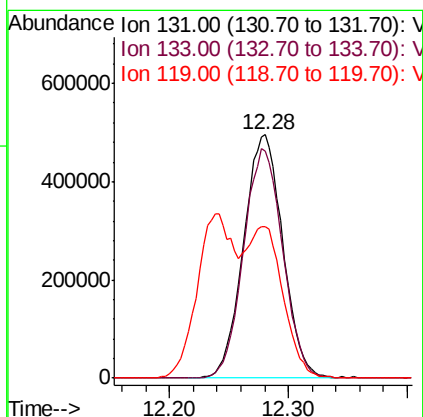
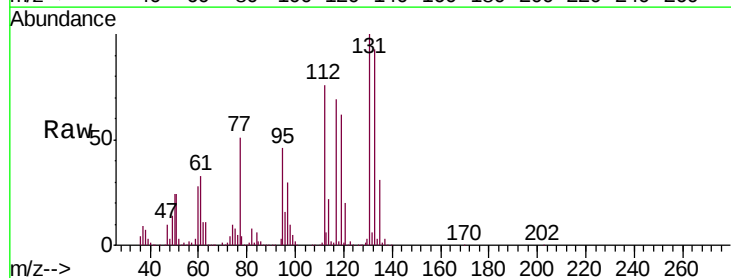
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

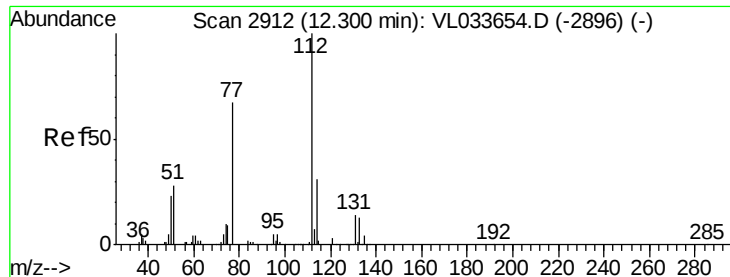
Tgt Ion:117 Resp: 2393441
Ion Ratio Lower Upper
117 100
82 63.5 49.7 74.5
119 28.2 24.8 37.2



#56
1,1,1,2-Tetrachloroethane
Concen: 10.218 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. 0.00 min
Lab File: VL033698.D
Acq: 14 May 2019 19:32

Tgt Ion:131 Resp: 1128146
Ion Ratio Lower Upper
131 100
133 94.6 76.0 114.0
119 60.9 45.4 68.2

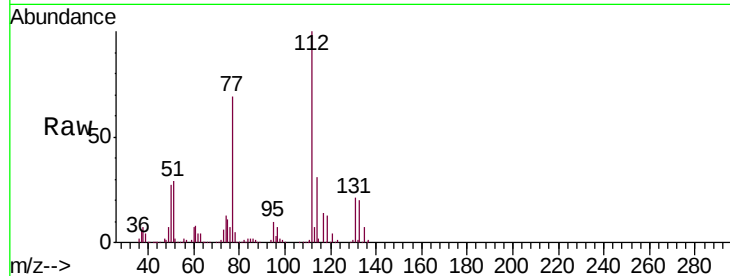




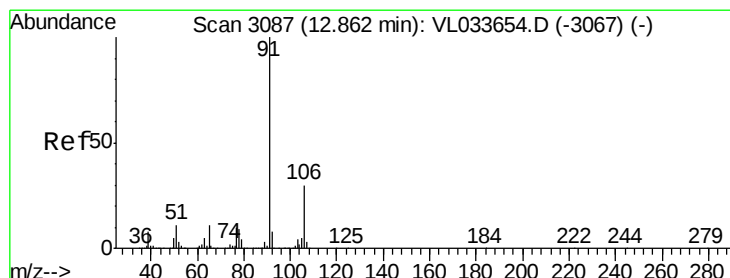
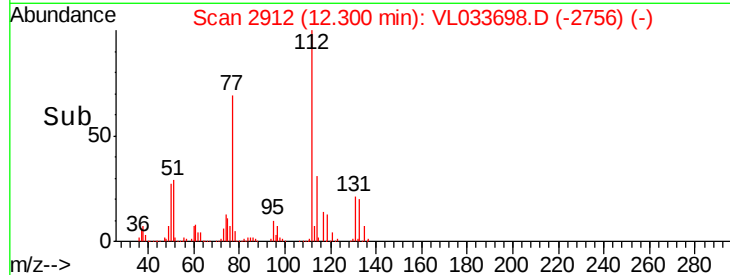
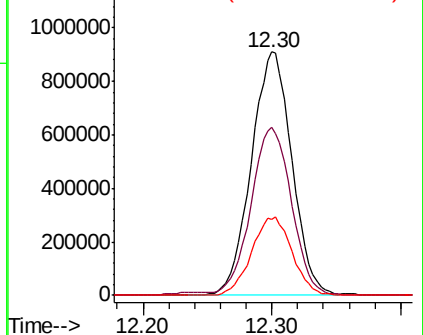
#57
Chlorobenzene
Concen: 10.142 ppbv
RT: 12.30 min Scan# 2912
Delta R.T. 0.00 min
Lab File: VL033698.D
Acq: 14 May 2019 19:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 112 Resp: 1993067
Ion Ratio Lower Upper
112 100
77 68.5 54.4 81.6
114 31.2 28.2 34.4

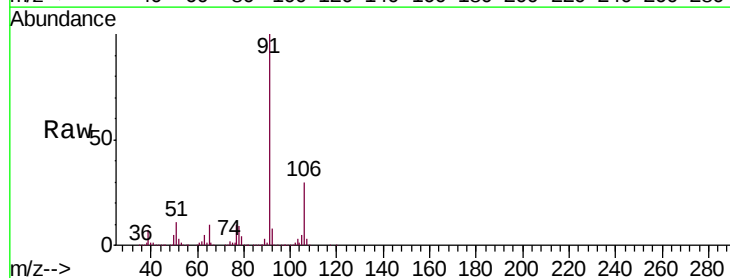


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

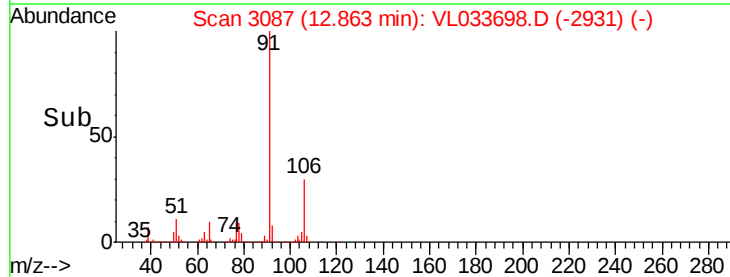
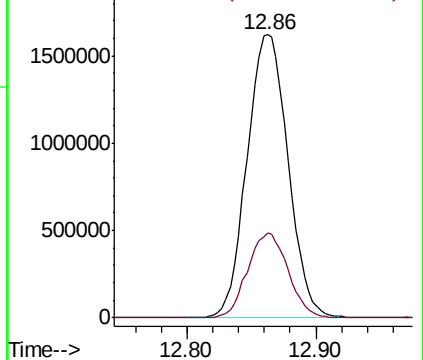


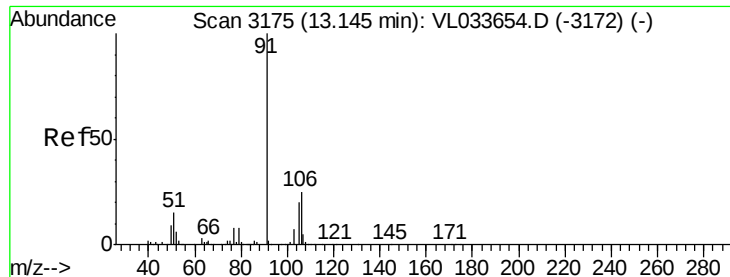
#58
Ethyl Benzene
Concen: 11.497 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. 0.00 min
Lab File: VL033698.D
Acq: 14 May 2019 19:32

Tgt Ion: 91 Resp: 3588440
Ion Ratio Lower Upper
91 100
106 29.8 23.7 35.5



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

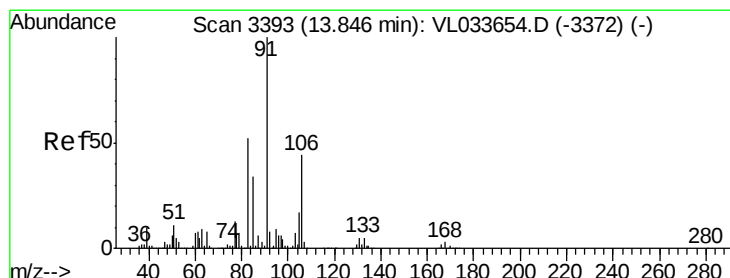
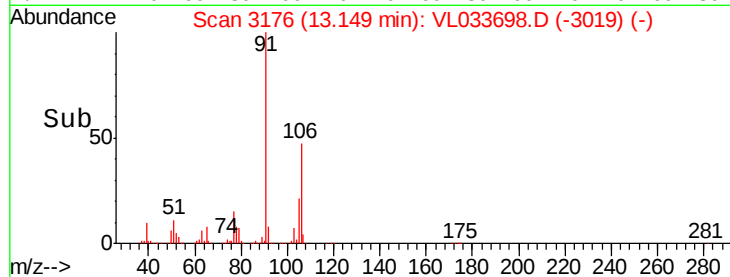
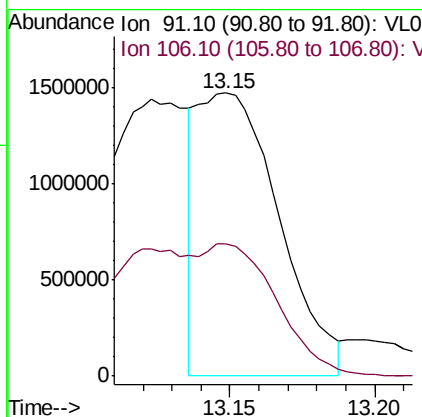
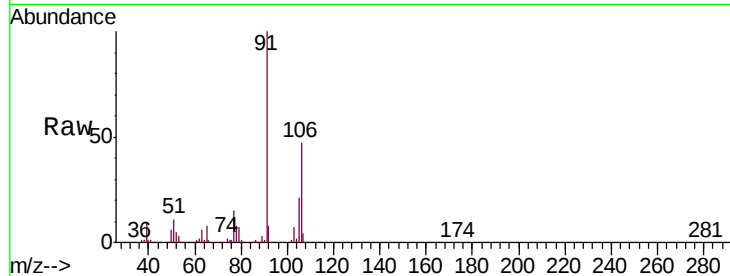




#59
m/p-Xylene
Concen: 10.382 ppbv
RT: 13.15 min Scan# 3176
Delta R.T. 0.00 min
Lab File: VL033698.D
Acq: 14 May 2019 19:32

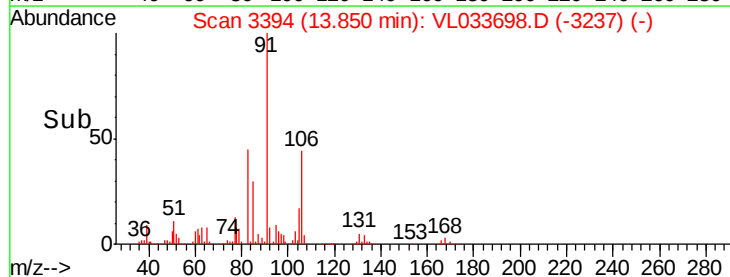
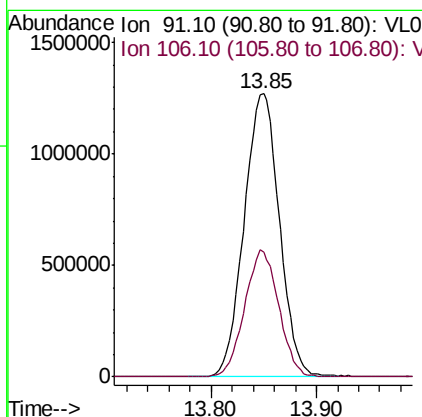
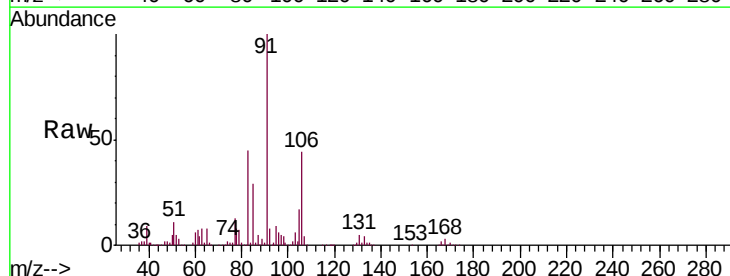
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

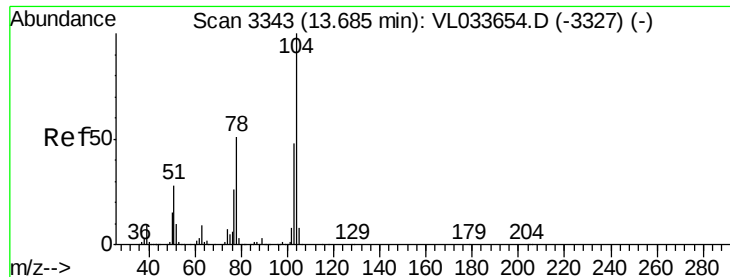
Tgt Ion: 91 Resp: 2854260
Ion Ratio Lower Upper
91 100
106 93.9 36.2 54.2#



#60
o-Xylene
Concen: 10.622 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. 0.00 min
Lab File: VL033698.D
Acq: 14 May 2019 19:32

Tgt Ion: 91 Resp: 2955261
Ion Ratio Lower Upper
91 100
106 43.7 21.7 65.1





#61

Styrene

Concen: 12.077 ppbv

RT: 13.68 min Scan# 3342

Delta R.T. -0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

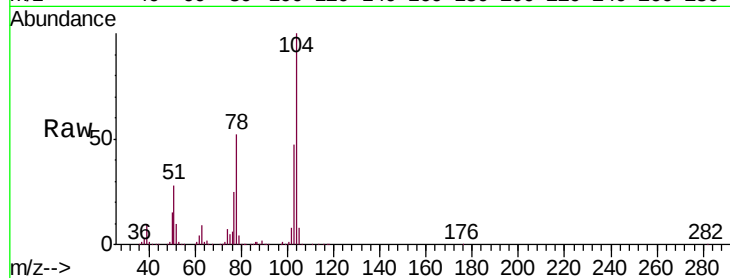
Tgt Ion:104 Resp: 2237482

Ion Ratio Lower Upper

104 100

78 53.5 43.0 64.6

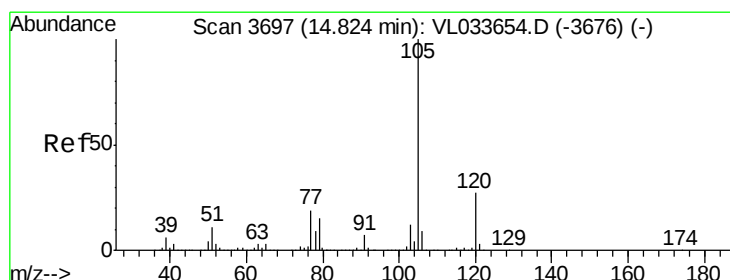
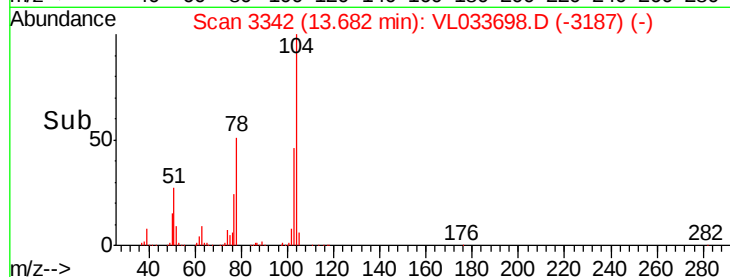
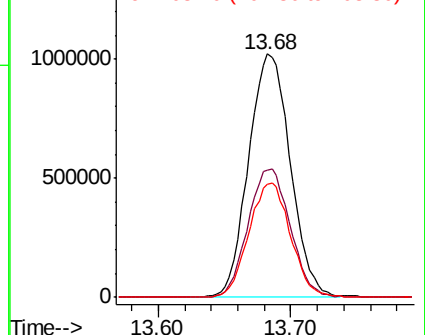
103 47.0 38.1 57.1



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: 10.420 ppbv

RT: 14.83 min Scan# 3698

Delta R.T. 0.00 min

Lab File: VL033698.D

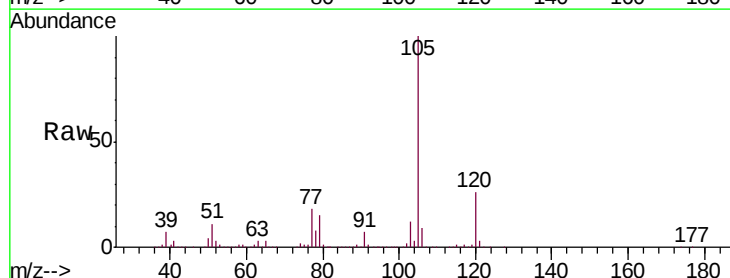
Acq: 14 May 2019 19:32

Tgt Ion:105 Resp: 3958369

Ion Ratio Lower Upper

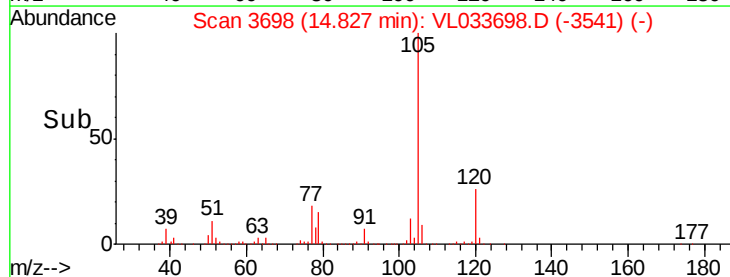
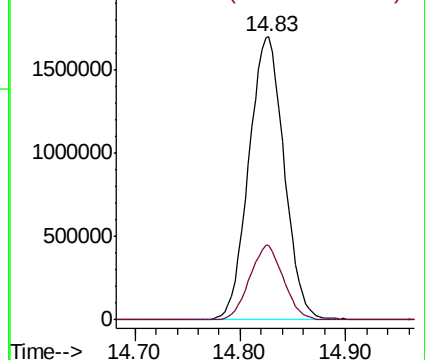
105 100

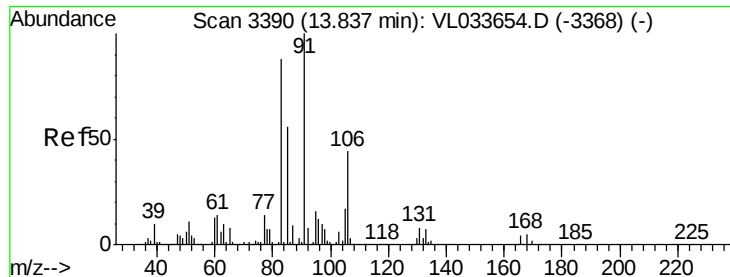
120 25.3 20.5 30.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

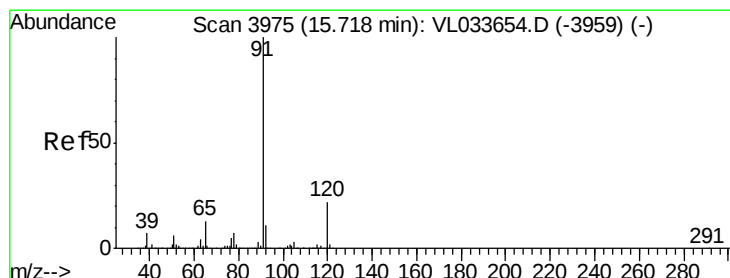
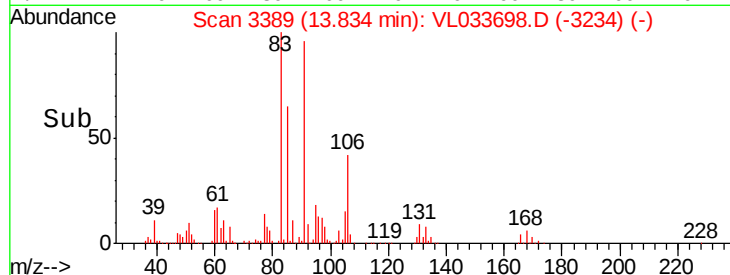
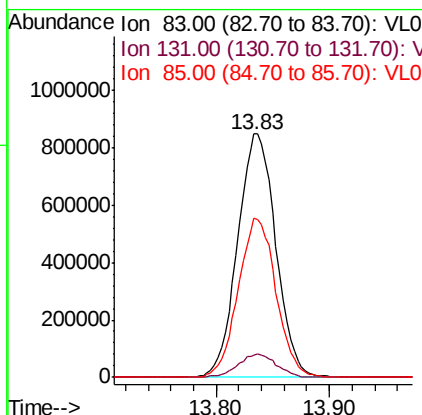
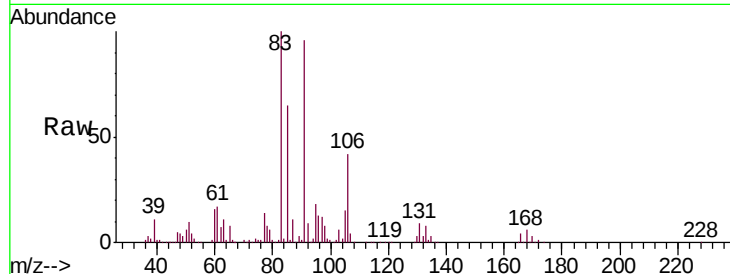




#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.838 ppbv
 RT: 13.83 min Scan# 3389
 Delta R.T. -0.00 min
 Lab File: VL033698.D
 Acq: 14 May 2019 19:32

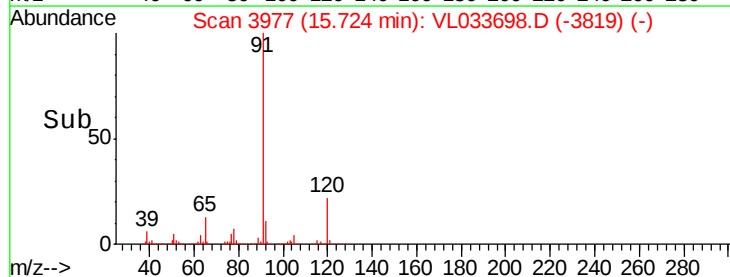
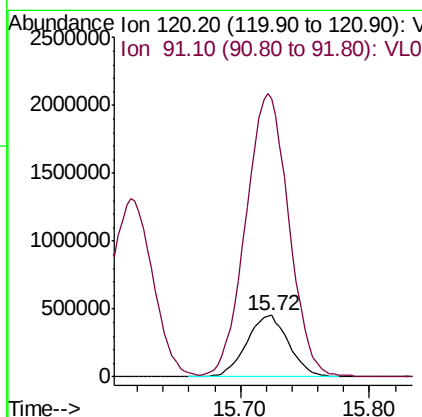
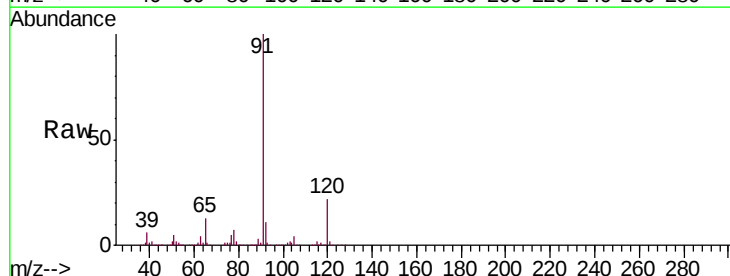
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

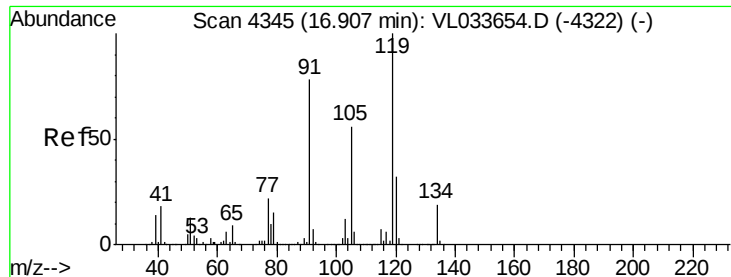
Tgt Ion: 83 Resp: 1992041
 Ion Ratio Lower Upper
 83 100
 131 9.6 4.8 14.3
 85 64.8 32.5 97.4



#64
 n-propylbenzene
 Concen: 10.520 ppbv
 RT: 15.72 min Scan# 3977
 Delta R.T. 0.01 min
 Lab File: VL033698.D
 Acq: 14 May 2019 19:32

Tgt Ion: 120 Resp: 1032765
 Ion Ratio Lower Upper
 120 100
 91 471.0 379.0 568.6





#65

tert-Butylbenzene

Concen: 10.151 ppbv

RT: 16.90 min Scan# 4344

Delta R.T. -0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

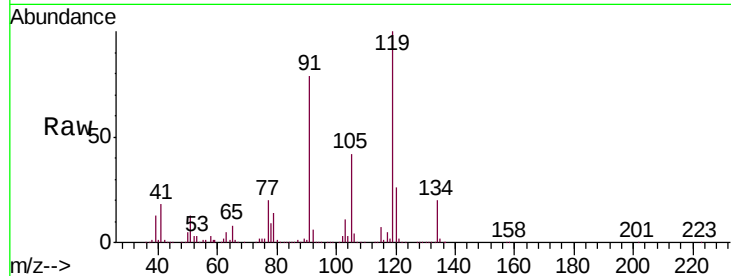
Tgt Ion: 119 Resp: 3537473

Ion Ratio Lower Upper

119 100

91 82.5 65.9 98.9

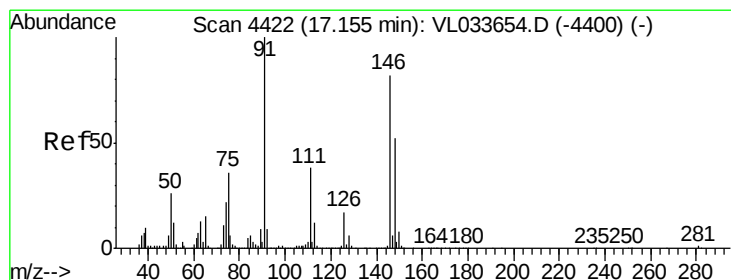
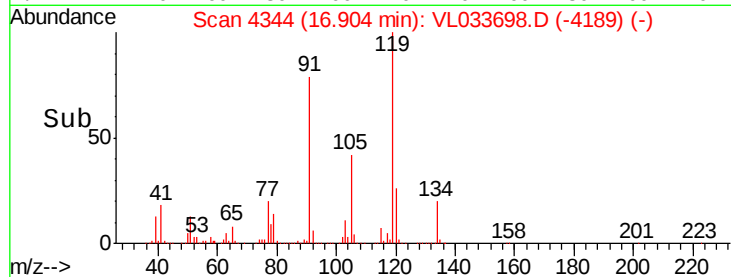
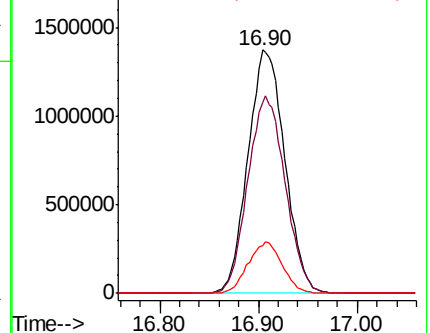
134 19.6 15.5 23.3



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 12.394 ppbv

RT: 17.16 min Scan# 4423

Delta R.T. 0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

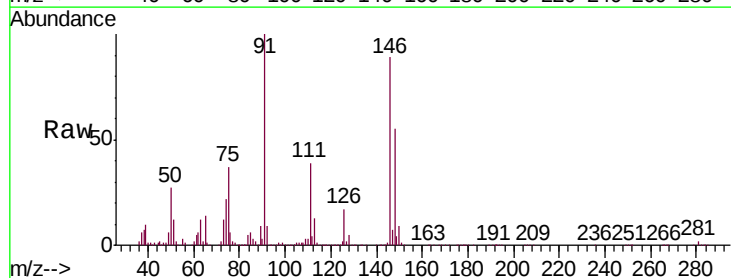
Tgt Ion: 91 Resp: 1964798

Ion Ratio Lower Upper

91 100

126 16.9 13.4 20.2

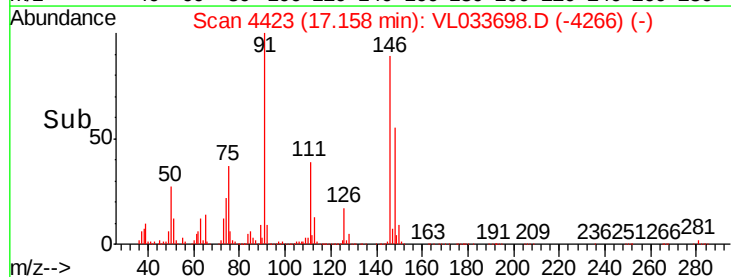
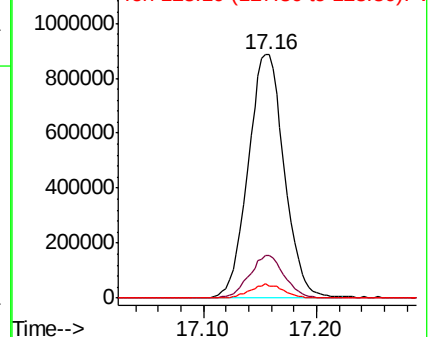
128 5.3 4.4 6.6

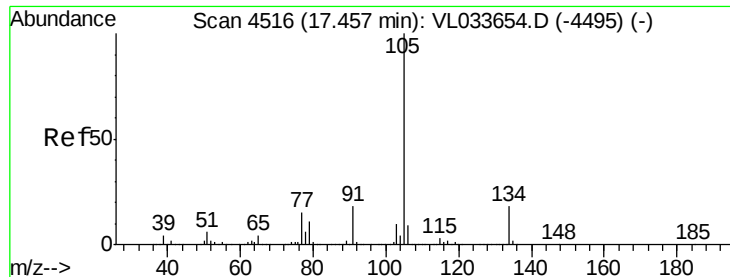


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 10.210 ppbv

RT: 17.46 min Scan# 4516

Delta R.T. 0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

Instrument :

MSVOA_L

ClientSampleId :

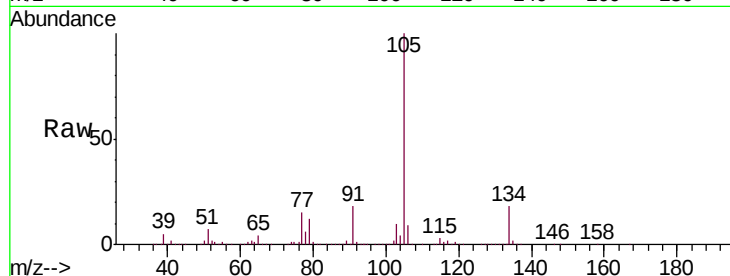
VSTDCCC010EC

Tgt Ion: 105 Resp: 4963799

Ion Ratio Lower Upper

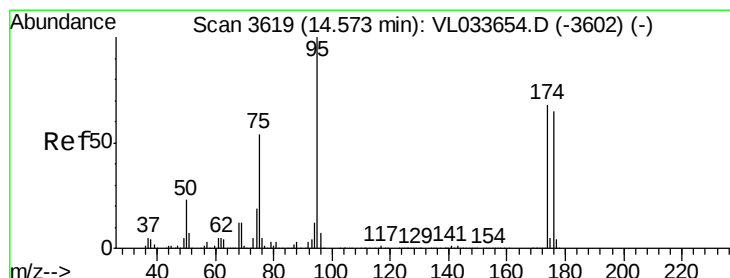
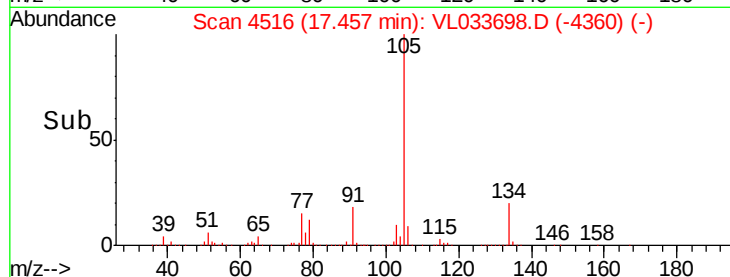
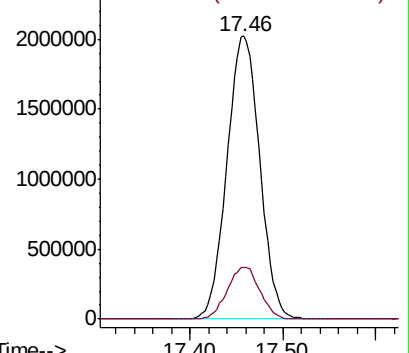
105 100

134 18.2 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: 9.431 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. 0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

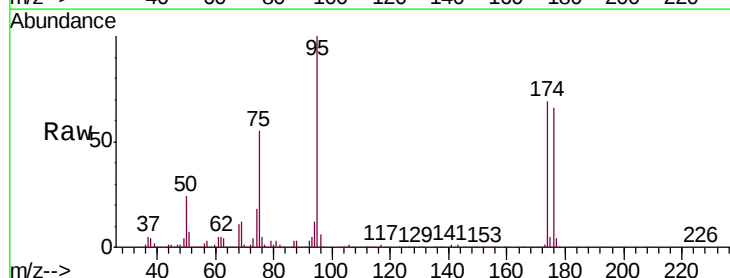
Tgt Ion: 95 Resp: 1850250

Ion Ratio Lower Upper

95 100

174 67.2 54.0 81.0

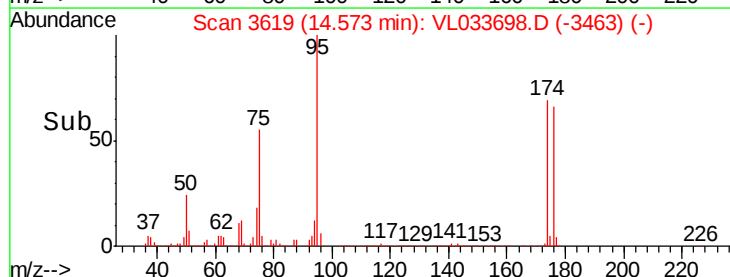
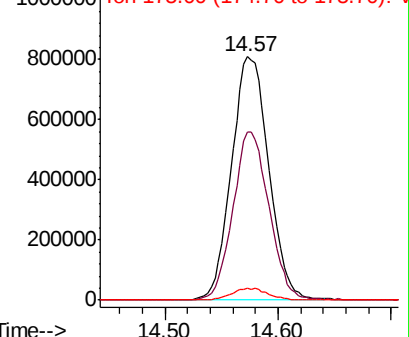
175 4.7 3.8 5.8

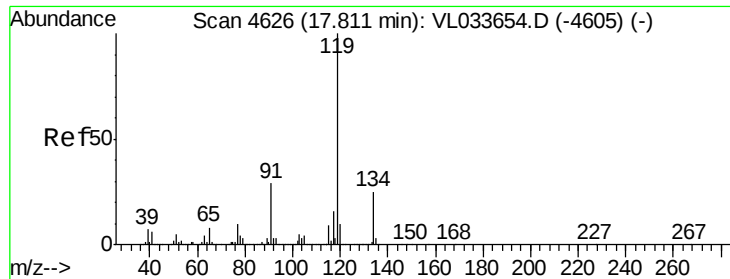


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

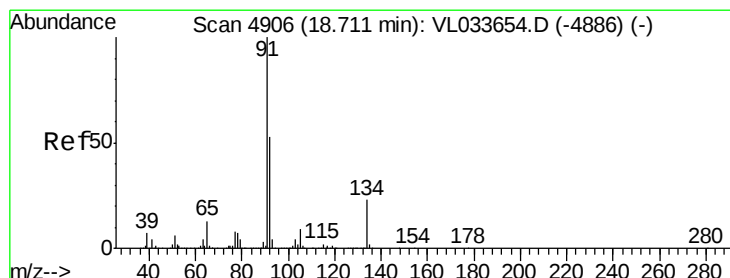
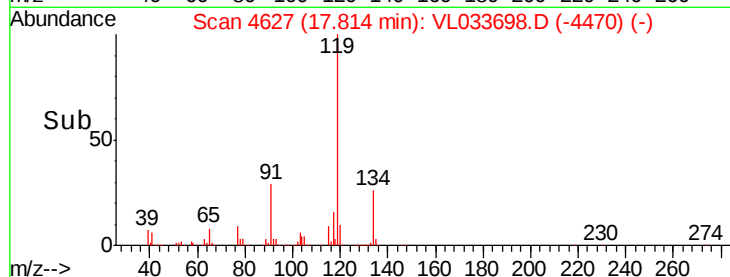
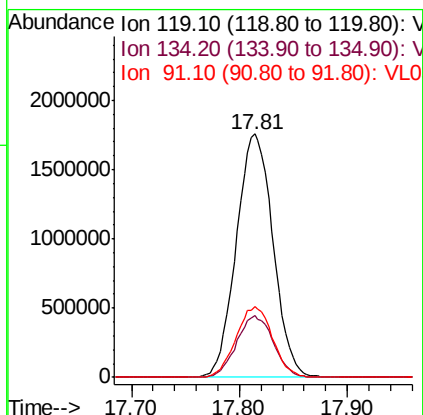
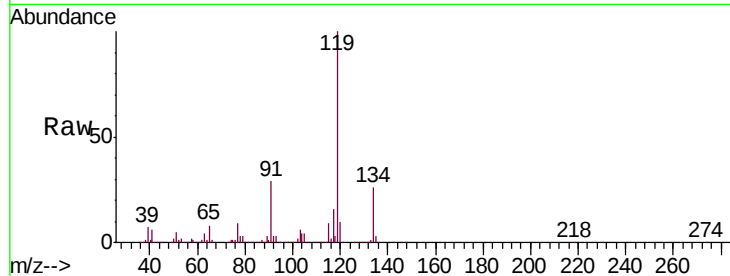




#69
p-Isopropyltoluene
Concen: 10.375 ppbv
RT: 17.81 min Scan# 4627
Delta R.T. 0.00 min
Lab File: VL033698.D
Acq: 14 May 2019 19:32

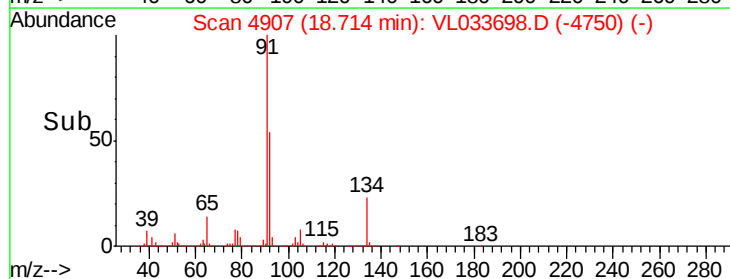
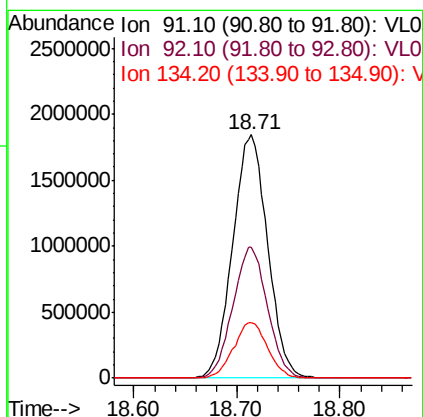
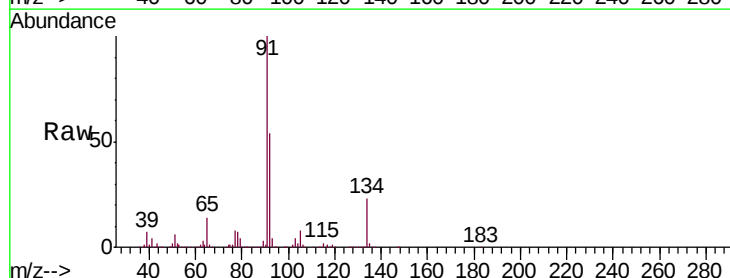
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

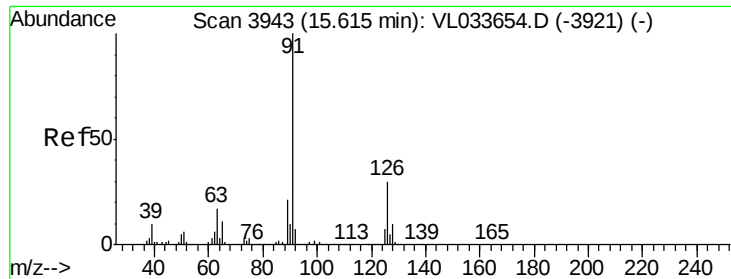
Tgt Ion: 119 Resp: 4156367
Ion Ratio Lower Upper
119 100
134 25.4 20.2 30.2
91 29.1 23.4 35.2



#70
n-Butylbenzene
Concen: 10.199 ppbv
RT: 18.71 min Scan# 4907
Delta R.T. 0.00 min
Lab File: VL033698.D
Acq: 14 May 2019 19:32

Tgt Ion: 91 Resp: 4332413
Ion Ratio Lower Upper
91 100
92 53.4 42.5 63.7
134 22.4 18.0 27.0





#71

2-Chlorotoluene

Concen: 10.621 ppbv

RT: 15.61 min Scan# 3943

Delta R.T. 0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

Instrument :

MSVOA_L

ClientSampleId :

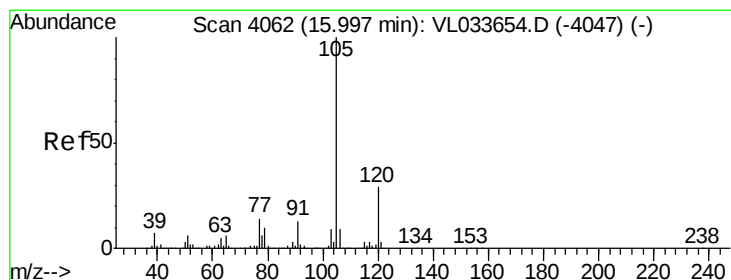
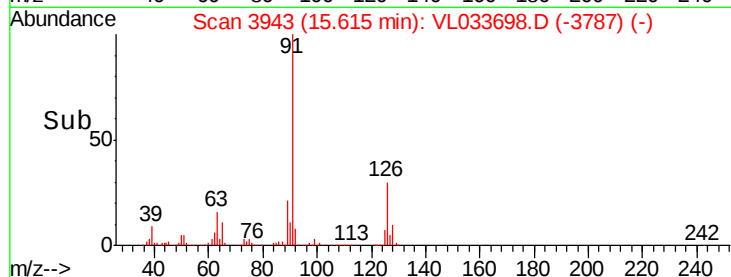
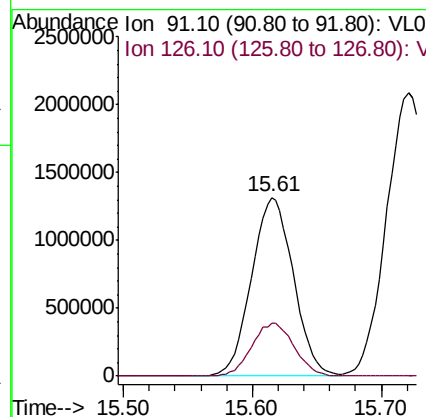
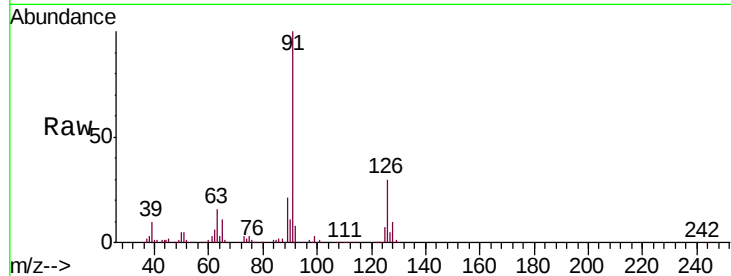
VSTDCCC010EC

Tgt Ion: 91 Resp: 2980834

Ion Ratio Lower Upper

91 100

126 30.0 12.0 47.8



#72

4-Ethyltoluene

Concen: 10.663 ppbv

RT: 16.00 min Scan# 4063

Delta R.T. 0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

Tgt Ion: 105 Resp: 3487167

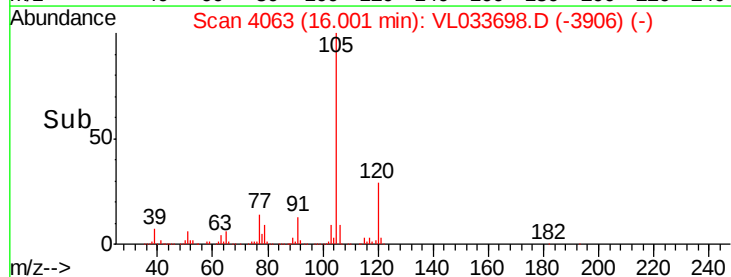
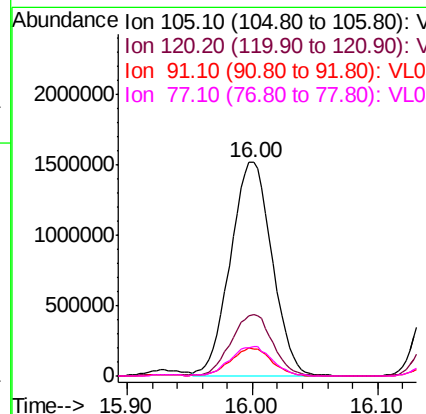
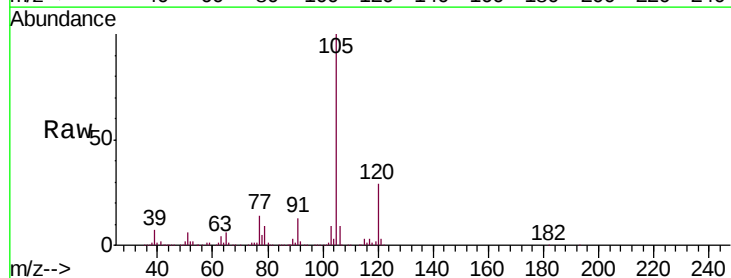
Ion Ratio Lower Upper

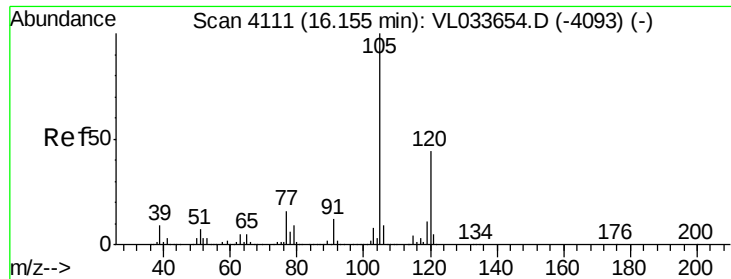
105 100

120 28.9 23.0 34.6

91 12.9 10.5 15.7

77 14.4 11.4 17.2

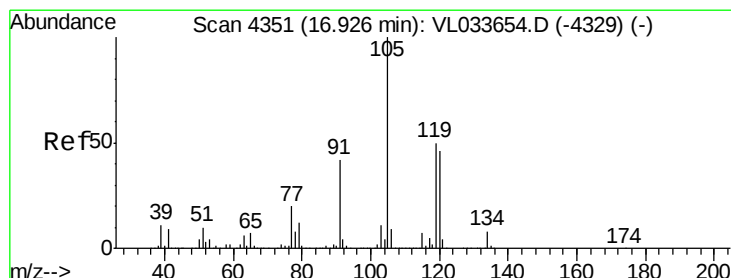
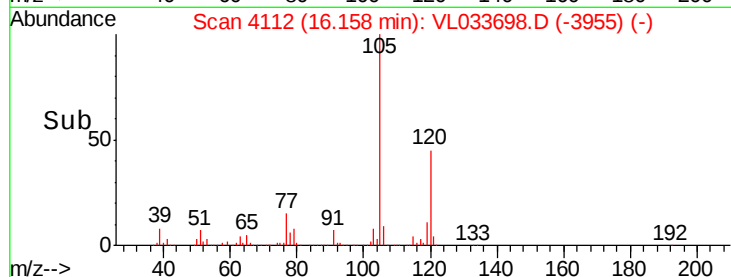
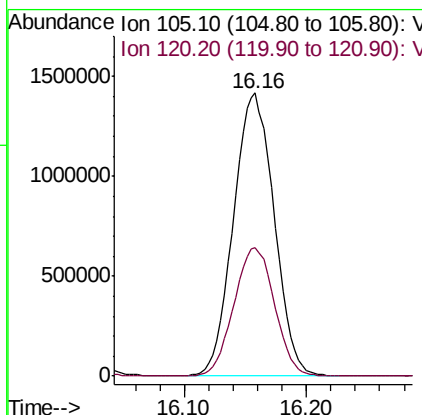
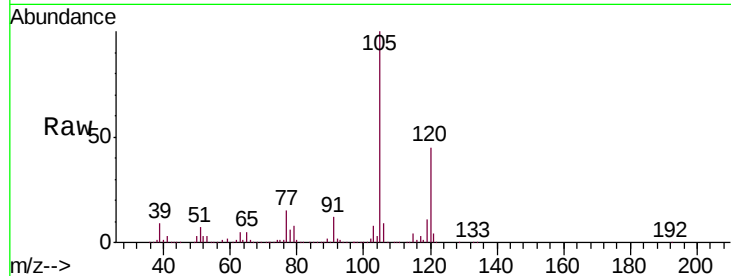




#73
 1,3,5-Trimethylbenzene
 Concen: 10.285 ppbv
 RT: 16.16 min Scan# 4112
 Delta R.T. 0.00 min
 Lab File: VL033698.D
 Acq: 14 May 2019 19:32

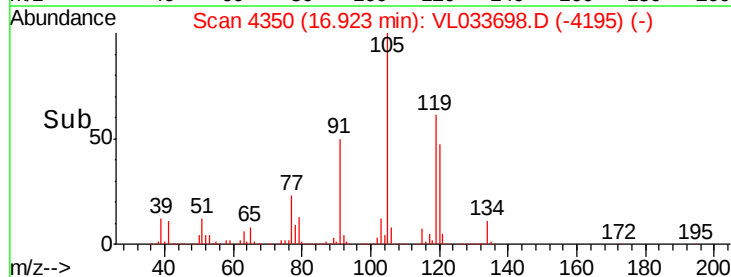
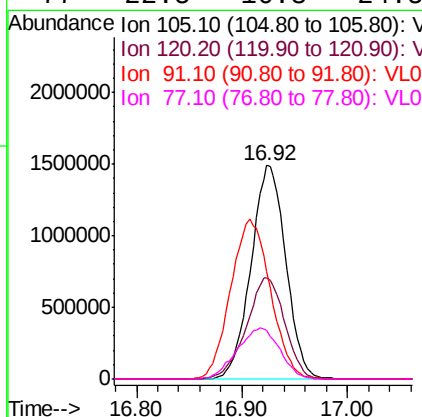
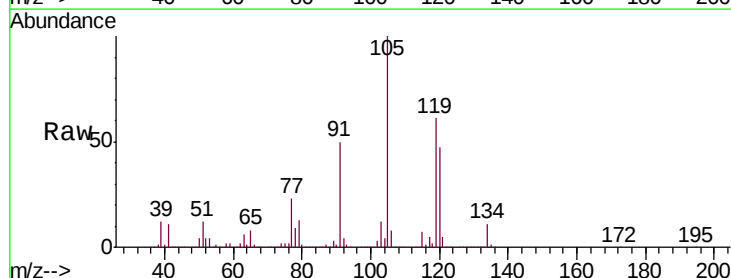
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

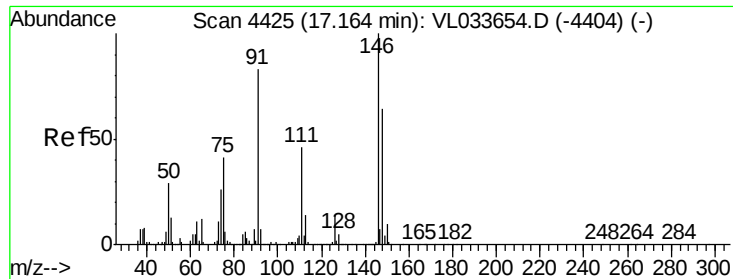
Tgt Ion:105 Resp: 3252137
 Ion Ratio Lower Upper
 105 100
 120 45.3 35.5 53.3



#74
 1,2,4-Trimethylbenzene
 Concen: 9.762 ppbv
 RT: 16.92 min Scan# 4350
 Delta R.T. -0.00 min
 Lab File: VL033698.D
 Acq: 14 May 2019 19:32

Tgt Ion:105 Resp: 3431097
 Ion Ratio Lower Upper
 105 100
 120 47.4 36.5 54.7
 91 50.2 33.7 50.5
 77 22.5 16.3 24.5

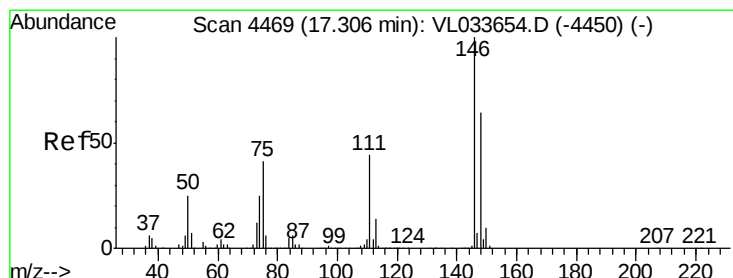
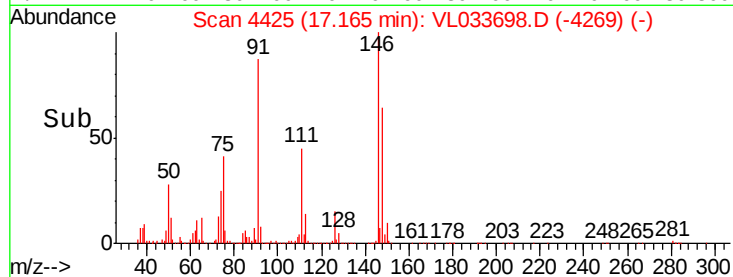
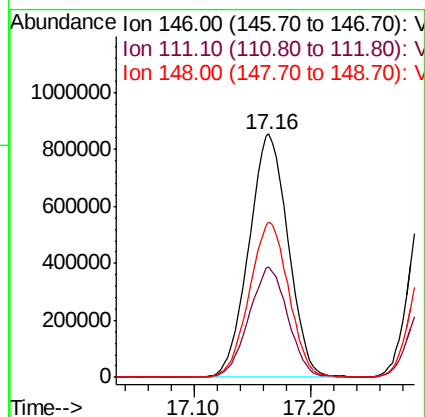
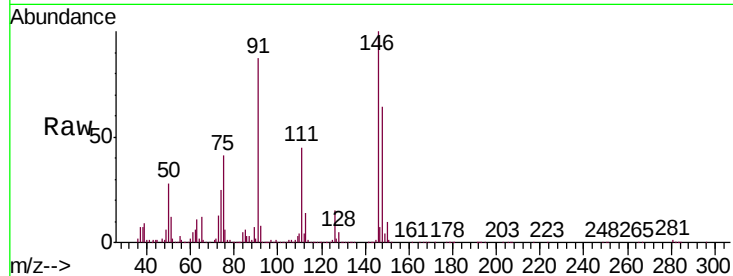




#75
 1,3-Dichlorobenzene
 Concen: 9.471 ppbv
 RT: 17.16 min Scan# 4425
 Delta R.T. 0.00 min
 Lab File: VL033698.D
 Acq: 14 May 2019 19:32

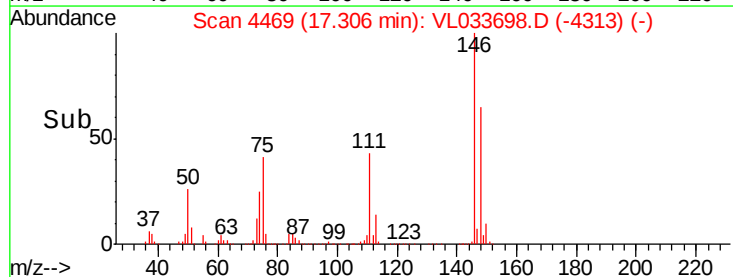
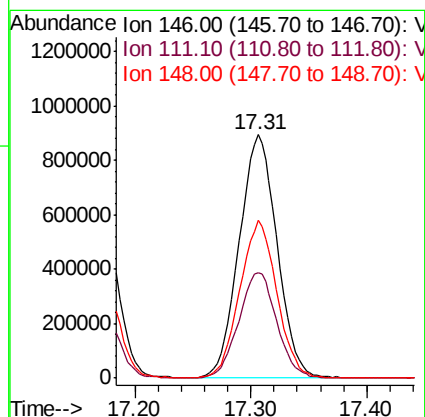
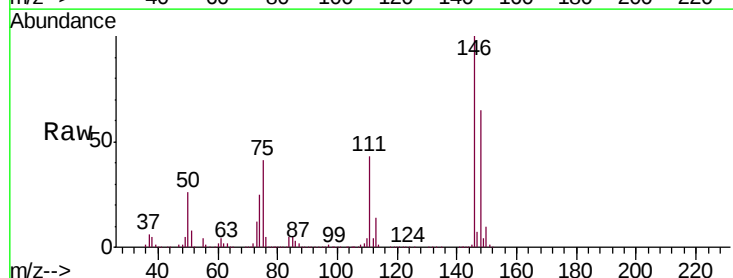
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

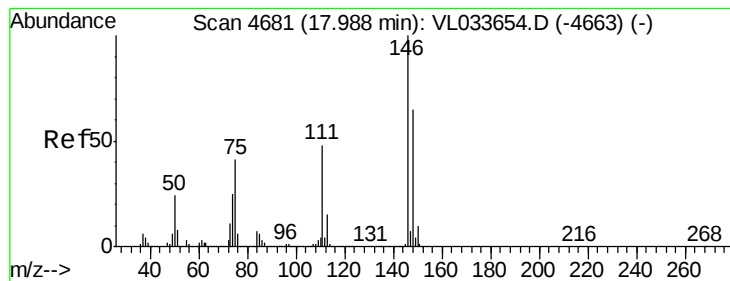
Tgt Ion:146 Resp: 2010657
 Ion Ratio Lower Upper
 146 100
 111 45.0 22.6 67.7
 148 63.9 31.8 95.4



#76
 1,4-Dichlorobenzene
 Concen: 10.012 ppbv
 RT: 17.31 min Scan# 4469
 Delta R.T. 0.00 min
 Lab File: VL033698.D
 Acq: 14 May 2019 19:32

Tgt Ion:146 Resp: 2017058
 Ion Ratio Lower Upper
 146 100
 111 43.9 22.0 66.0
 148 64.0 32.1 96.5





#77

1,2-Dichlorobenzene

Concen: 9.732 ppbv

RT: 17.99 min Scan# 4681

Delta R.T. 0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

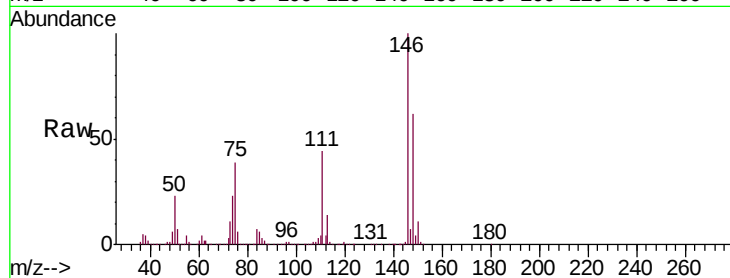
Tgt Ion:146 Resp: 1914033

Ion Ratio Lower Upper

146 100

111 46.7 23.4 70.0

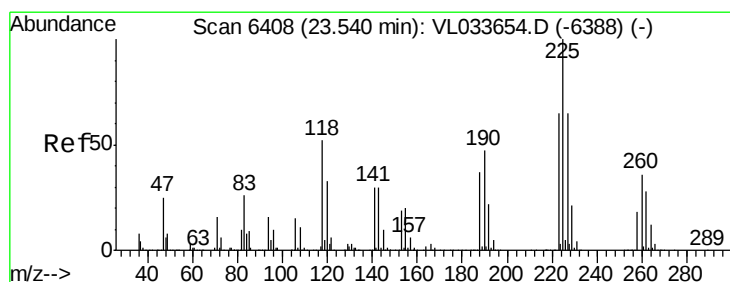
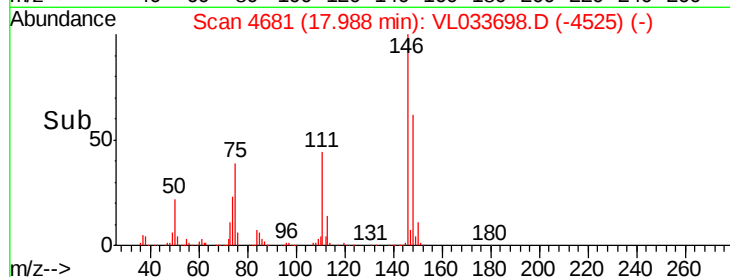
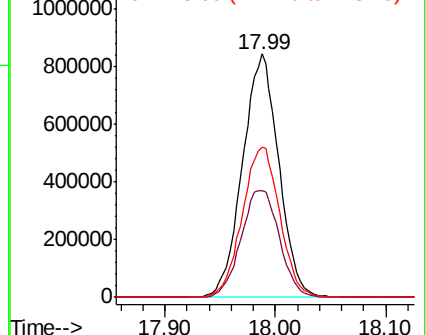
148 64.2 31.9 95.9



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: 11.168 ppbv

RT: 23.54 min Scan# 6409

Delta R.T. 0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

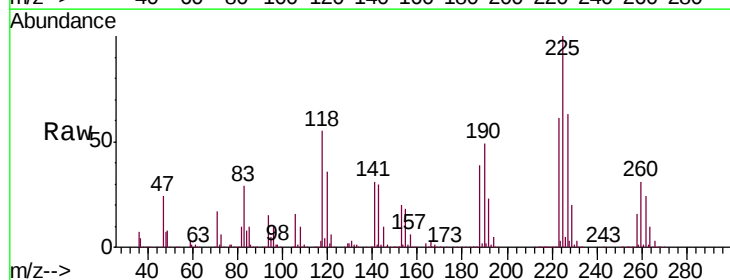
Tgt Ion:225 Resp: 1740771

Ion Ratio Lower Upper

225 100

223 63.8 50.7 76.1

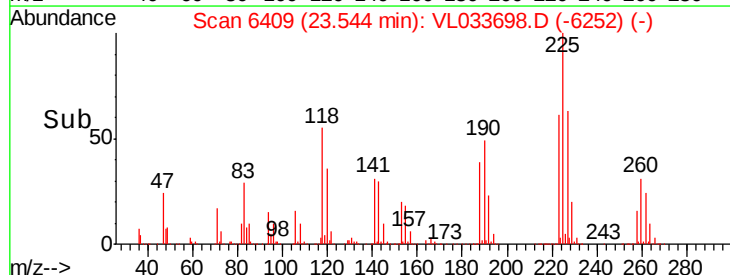
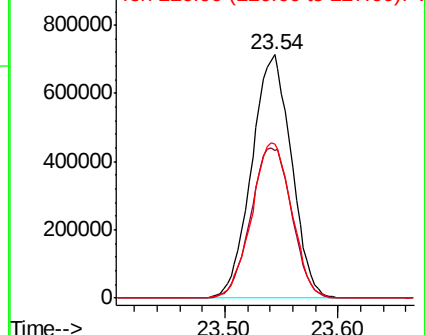
227 64.2 51.4 77.2

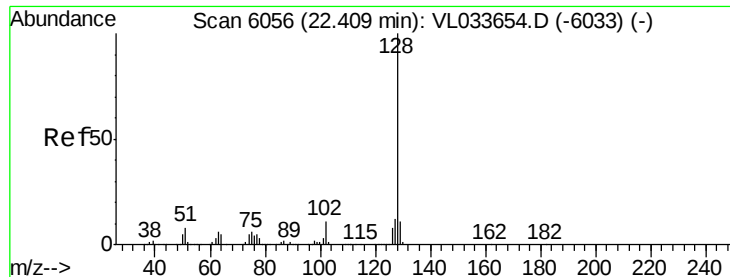


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 12.352 ppbv

RT: 22.41 min Scan# 6056

Delta R.T. 0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

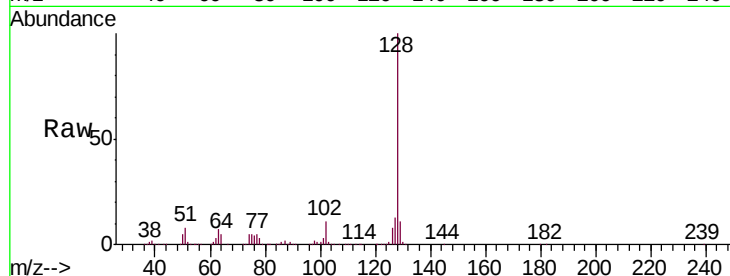
Tgt Ion:128 Resp: 3963864

Ion Ratio Lower Upper

128 100

127 12.8 9.8 14.8

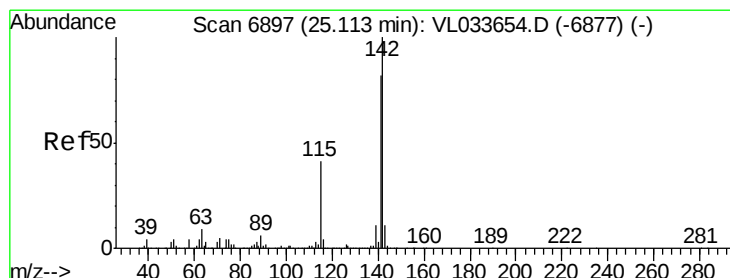
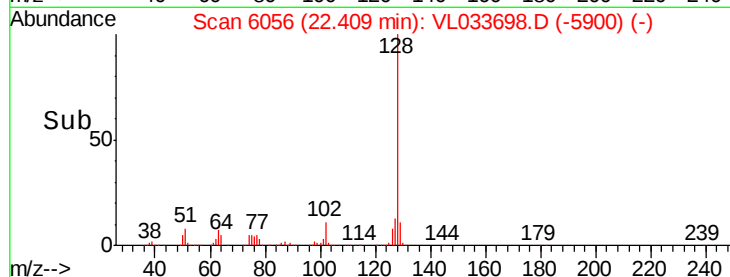
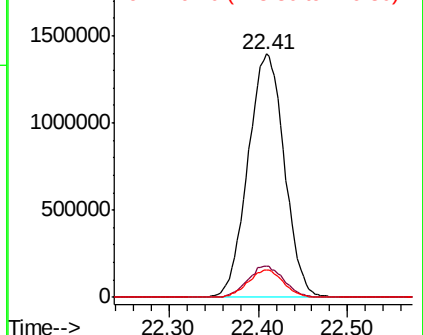
129 11.4 8.8 13.2



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: 15.873 ppbv

RT: 25.11 min Scan# 6896

Delta R.T. -0.00 min

Lab File: VL033698.D

Acq: 14 May 2019 19:32

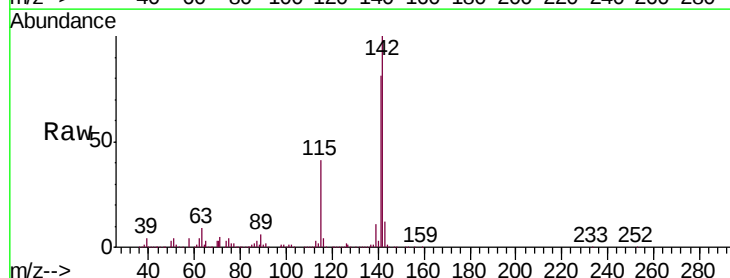
Tgt Ion:142 Resp: 1925616

Ion Ratio Lower Upper

142 100

141 83.5 67.9 101.9

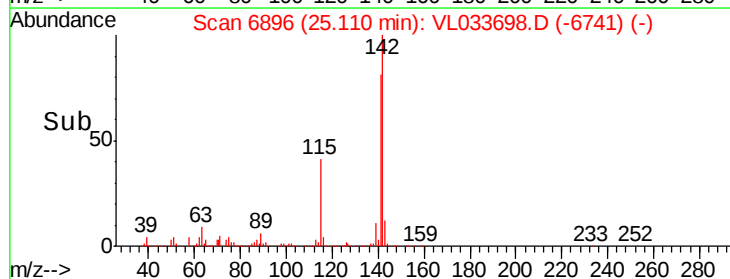
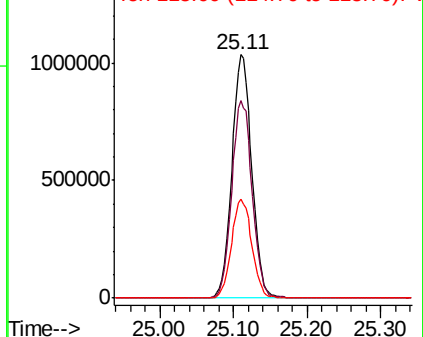
115 41.9 34.2 51.4

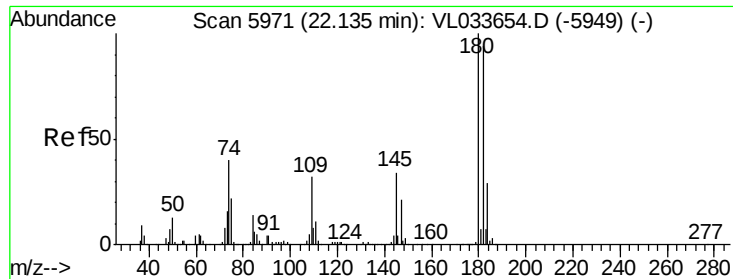


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 10.924 ppbv
 RT: 22.14 min Scan# 5971
 Delta R.T. 0.00 min
 Lab File: VL033698.D
 Acq: 14 May 2019 19:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion:180 Resp: 2036606
 Ion Ratio Lower Upper
 180 100
 182 96.0 77.4 116.0
 184 30.6 24.6 36.8

