

Data File : VV012315.D
Acq On : 21 Aug 2019 15:23
Operator : SY/MD
Sample : VSTD00566
Misc : 5mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00566

Quant Time: Aug 22 02:23:42 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM082119WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Aug 22 02:21:08 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	250698	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	235032	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	121093	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	5951	3.78	ug/L	0.00
7) Chloroethane-d5	1.58	69	4098	3.06	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	12094	4.09	ug/L	0.00
21) 2-Butanone-d5	3.93	46	7972	5.83	ug/L	0.00
24) Chloroform-d	4.40	84	16991	4.59	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	11489	4.79	ug/L	0.00
32) Benzene-d6	5.10	84	31024	4.29	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.12	67	8337	3.81	ug/L	0.00
41) Toluene-d8	7.36	98	29152	4.39	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.67	79	4931	4.28	ug/L	0.00
47) 2-Hexanone-d5	8.13	63	6177	6.46	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.26	84	11344	3.54	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.67	152	13726	4.76	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	11108	5.170 ug/L	100
3) Chloromethane	1.25	50	6340	3.420 ug/L	95
5) Vinyl chloride	1.33	62	5856	3.115 ug/L	90
6) Bromomethane	1.53	94	2915	2.877 ug/L	92
8) Chloroethane	1.60	64	3772	3.589 ug/L	96
9) Trichlorofluoromethane	1.77	101	12409	4.722 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	5611	3.925 ug/L	96
12) 1,1-Dichloroethene	2.14	96	5120	3.785 ug/L	88
13) Acetone	2.19	43	7724	7.263 ug/L	99
14) Carbon disulfide	2.32	76	19871	4.429 ug/L	97
15) Methyl Acetate	2.46	43	6383	3.621 ug/L	97
16) Methylene chloride	2.54	84	7957	4.611 ug/L	97
17) trans-1,2-Dichloroethene	2.79	96	7601	4.584 ug/L	91
18) Methyl tert-butyl Ether	2.80	73	24376	4.808 ug/L	97
19) 1,1-Dichloroethane	3.23	63	12727	4.310 ug/L	97
20) cis-1,2-Dichloroethene	3.96	96	8126	4.423 ug/L	94
22) 2-Butanone	4.02	43	9050	6.678 ug/L	99
23) Bromochloromethane	4.30	128	4424	4.558 ug/L	93
25) Chloroform	4.43	83	16232	5.080 ug/L	99
27) 1,2-Dichloroethane	5.18	62	12807	5.277 ug/L	97
29) Cyclohexane	4.73	56	10502	4.100 ug/L	98
30) 1,1,1-Trichloroethane	4.66	97	14847	5.408 ug/L	98
31) Carbon tetrachloride	4.87	117	13646	5.515 ug/L	98
33) Benzene	5.15	78	28925	4.431 ug/L	100
34) Trichloroethene	5.96	95	9025	5.119 ug/L	97
35) Methylcyclohexane	6.17	83	13129	4.730 ug/L	96
37) 1,2-Dichloropropane	6.22	63	6709	4.104 ug/L	# 96
38) Bromodichloromethane	6.56	83	11462	5.009 ug/L	100
39) cis-1,3-Dichloropropene	7.07	75	11024	4.170 ug/L	86
40) 4-Methyl-2-pentanone	7.27	43	16031	7.108 ug/L	99

Data File : VV012315.D
Acq On : 21 Aug 2019 15:23
Operator : SY/MD
Sample : VSTD00566
Misc : 5mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00566

Quant Time: Aug 22 02:23:42 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM082119WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Aug 22 02:21:08 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.43	91	32369	4.615	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	10608	4.360	ug/L	99
45) 1,1,2-Trichloroethane	7.88	97	7744	4.704	ug/L	94
46) Tetrachloroethene	8.02	164	8366	5.461	ug/L	96
48) 2-Hexanone	8.18	43	12464	6.793	ug/L	97
49) Dibromochloromethane	8.29	129	9959	5.183	ug/L	98
50) 1,2-Dibromoethane	8.40	107	8152	4.581	ug/L	97
51) Chlorobenzene	8.92	112	22801	4.841	ug/L	96
52) Ethylbenzene	9.05	91	37099	4.764	ug/L	97
53) m,p-Xylene	9.18	106	14505	4.848	ug/L	99
54) o-xylene	9.59	106	14101	4.850	ug/L	93
55) Styrene	9.60	104	22509	4.528	ug/L	98
56) Isopropylbenzene	9.97	105	37804	4.904	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	10893	4.090	ug/L	95
59) 1,2,3-Trichloropropane	10.32	75	9572	4.554	ug/L	96
61) Bromoform	9.78	173	7623	5.301	ug/L	94
62) 1,3-Dichlorobenzene	11.23	146	18508	4.794	ug/L	98
63) 1,4-Dichlorobenzene	11.32	146	19465	4.942	ug/L	95
65) 1,2-Dichlorobenzene	11.69	146	18802	4.839	ug/L	94
66) 1,2-Dibromo-3-chloropropan	12.48	75	2546	4.274	ug/L	83
67) 1,3,5-Trichlorobenzene	12.69	180	13862	4.691	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	8963	3.681	ug/L	96
69) Naphthalene	13.55	128	22280	3.239	ug/L	98
70) 1,2,3-Trichlorobenzene	13.79	180	9338	3.654	ug/L	96

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

Data File : VV012315.D

Acq On : 21 Aug 2019 15:23

Operator : SY/MD

Sample : VSTD00566

Misc : 5mL/MSV0A V/WATER

ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00566

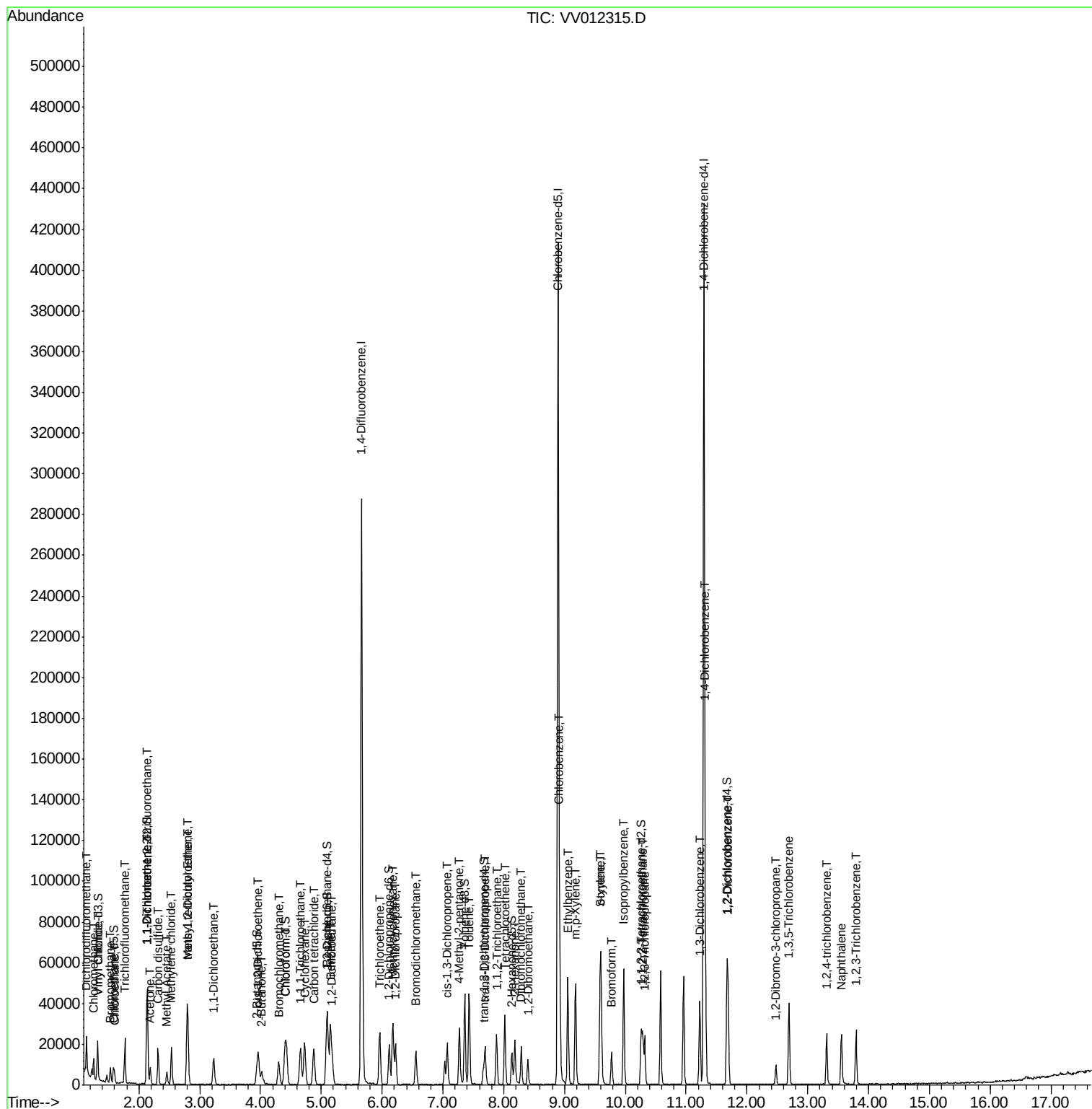
Quant Time: Aug 22 02:23:42 2019

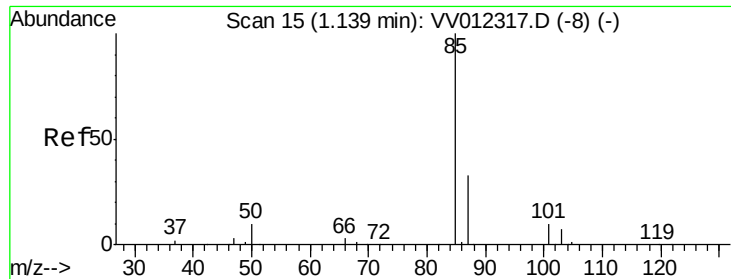
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\SOMVLM082119WMA.M

Quant Title : VOC Analysis

QLast Update : Thu Aug 22 02:21:08 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 5.170 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012315.D

Acq: 21 Aug 2019 15:23

Instrument :

MSVOA_V

ClientSampleId :

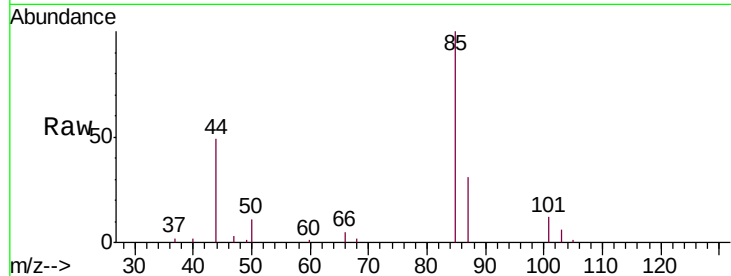
VSTD00566

Tgt Ion: 85 Resp: 11108

Ion Ratio Lower Upper

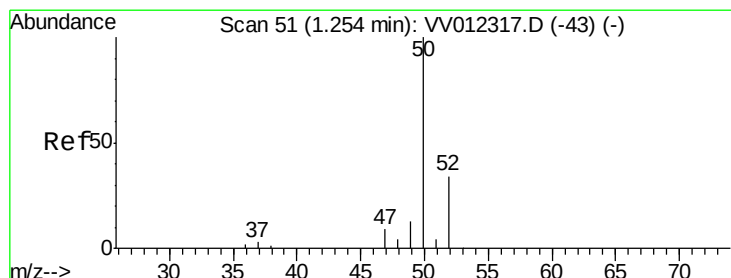
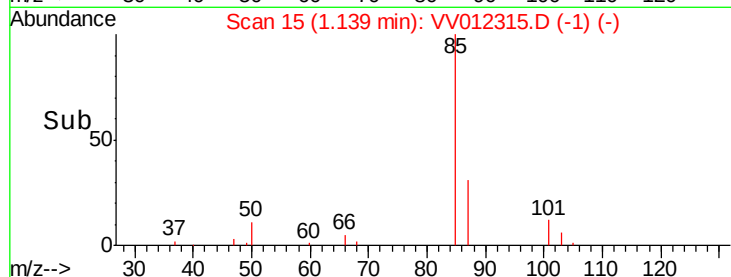
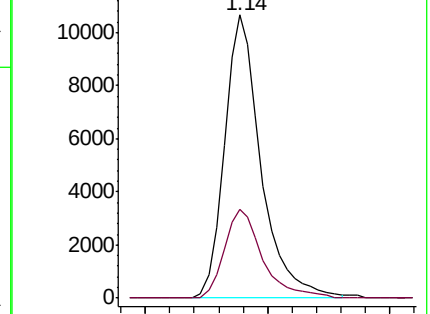
85 100

87 32.6 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VV012315.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV012315.D (-8) (-)



#3

Chloromethane

Concen: 3.420 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV012315.D

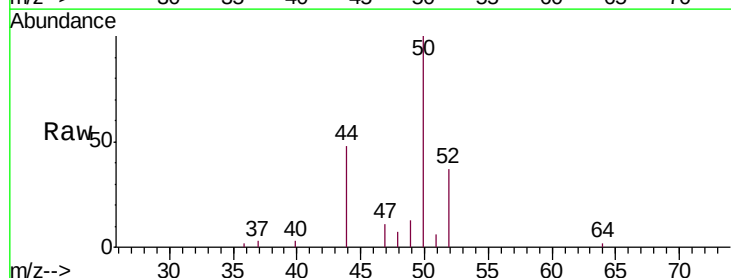
Acq: 21 Aug 2019 15:23

Tgt Ion: 50 Resp: 6340

Ion Ratio Lower Upper

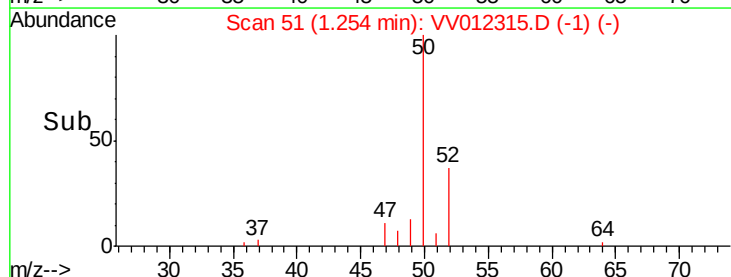
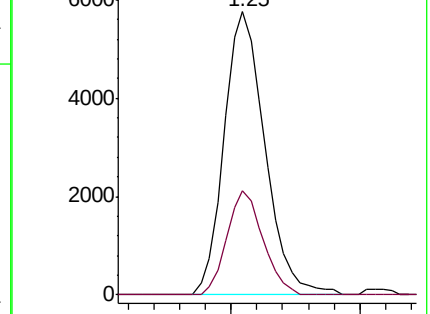
50 100

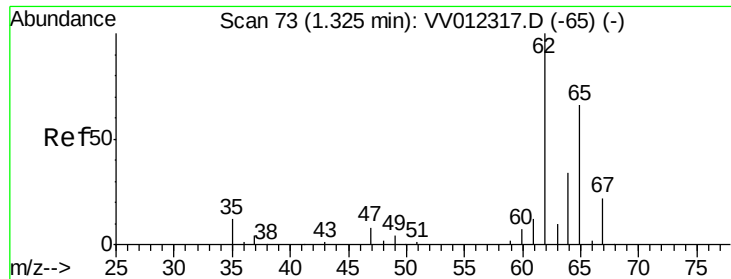
52 36.7 23.8 44.2



Abundance Ion 50.00 (49.70 to 50.70): VV012315.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV012315.D (-43) (-)





#5

Vinyl chloride

Concen: 3.115 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV012315.D

Acq: 21 Aug 2019 15:23

Instrument :

MSVOA_V

ClientSampleId :

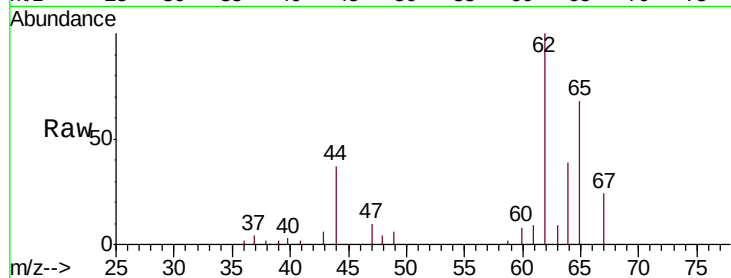
VSTD00566

Tgt Ion: 62 Resp: 5856

Ion Ratio Lower Upper

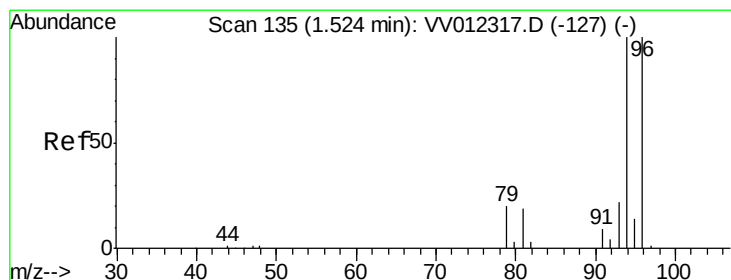
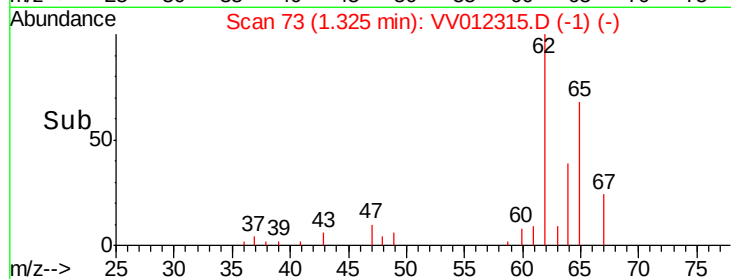
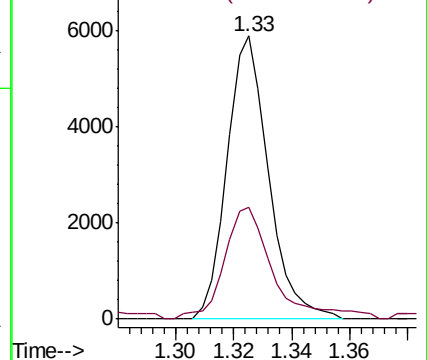
62 100

64 39.4 23.5 43.7



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 2.877 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.01 min

Lab File: VV012315.D

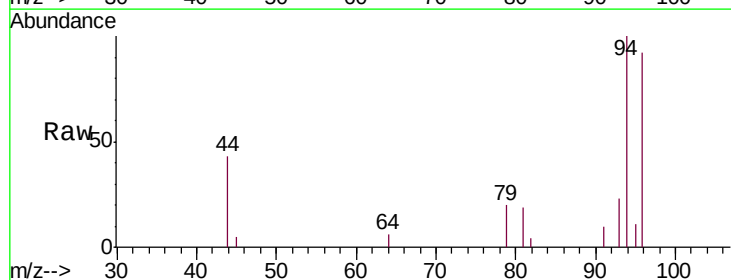
Acq: 21 Aug 2019 15:23

Tgt Ion: 94 Resp: 2915

Ion Ratio Lower Upper

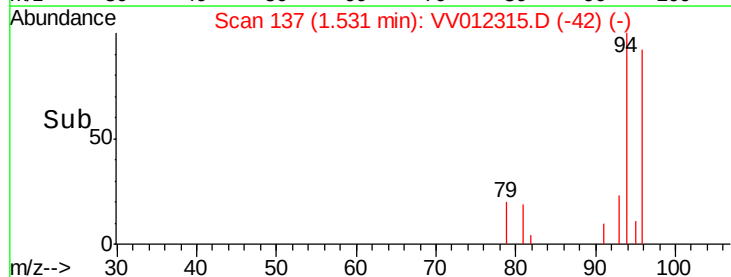
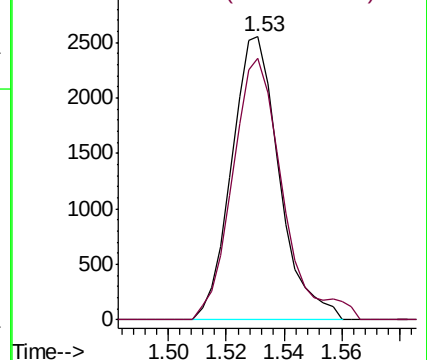
94 100

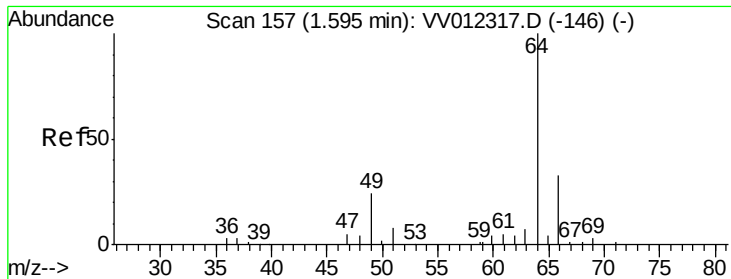
96 92.4 70.1 130.3



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 3.589 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV012315.D

Acq: 21 Aug 2019 15:23

Instrument :

MSVOA_V

ClientSampleId :

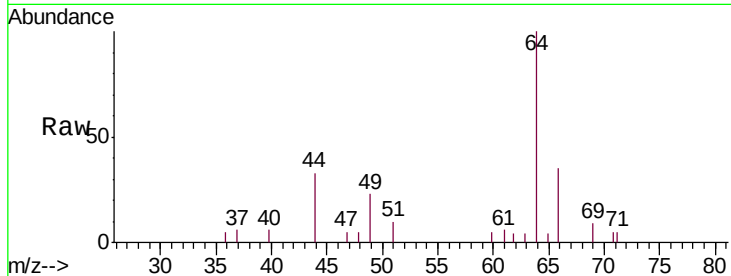
VSTD00566

Tgt Ion: 64 Resp: 3772

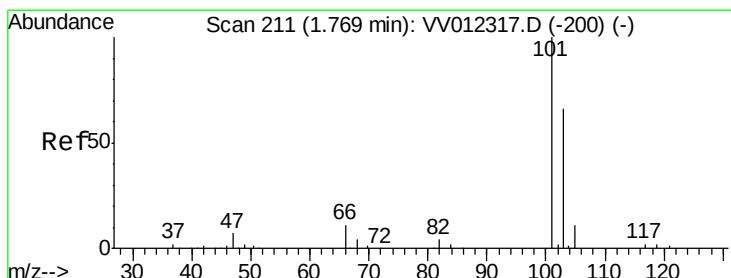
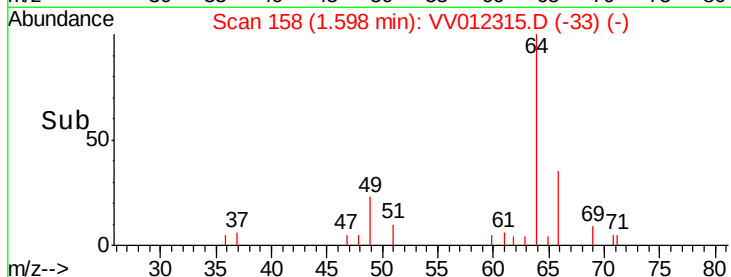
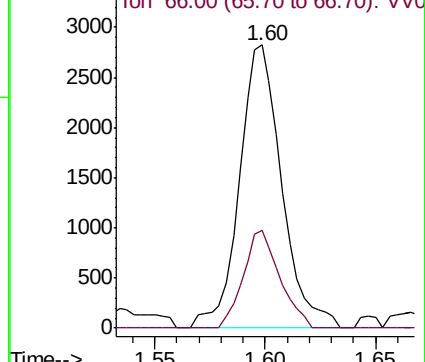
Ion Ratio Lower Upper

64 100

66 34.7 22.8 42.4



Abundance Ion 64.00 (63.70 to 64.70): VV012317.D (-146) (-)



#9

Trichlorofluoromethane

Concen: 4.722 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV012315.D

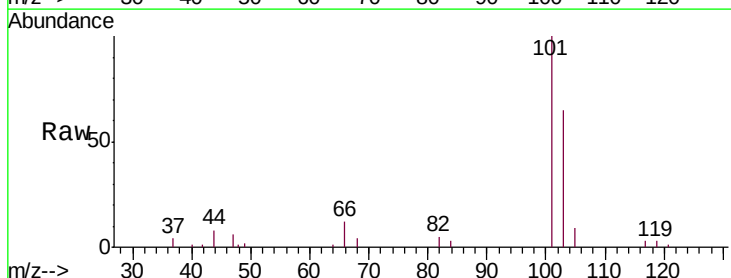
Acq: 21 Aug 2019 15:23

Tgt Ion: 101 Resp: 12409

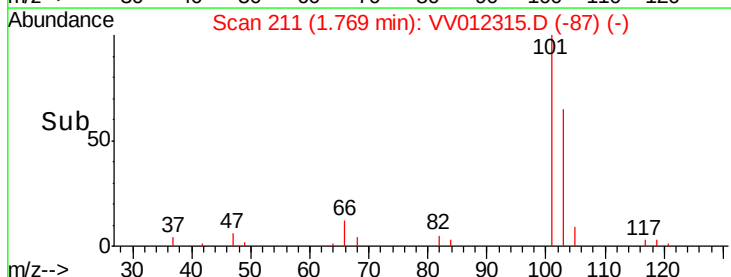
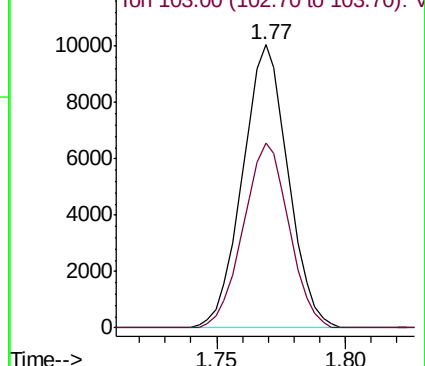
Ion Ratio Lower Upper

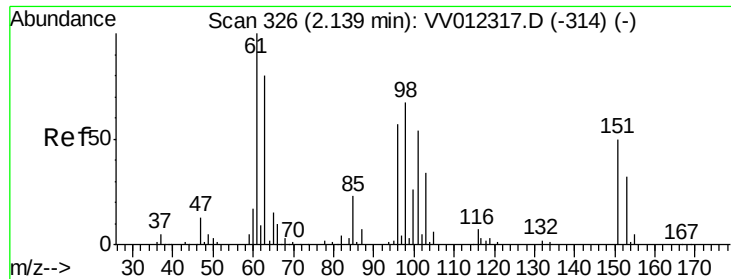
101 100

103 65.4 53.2 79.8



Abundance Ion 101.00 (100.70 to 101.70): VV012317.D (-200) (-)





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 3.925 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012315.D

Acq: 21 Aug 2019 15:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD00566

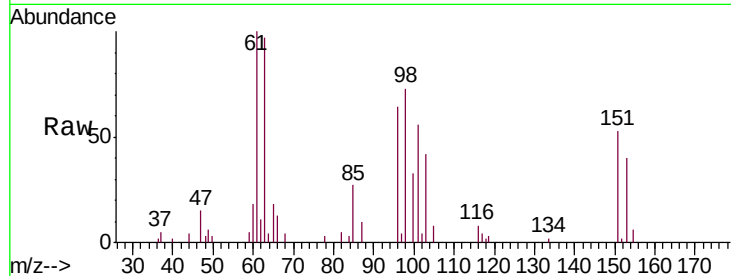
Tgt Ion: 101 Resp: 5611

Ion Ratio Lower Upper

101 100

85 46.6 33.7 50.5

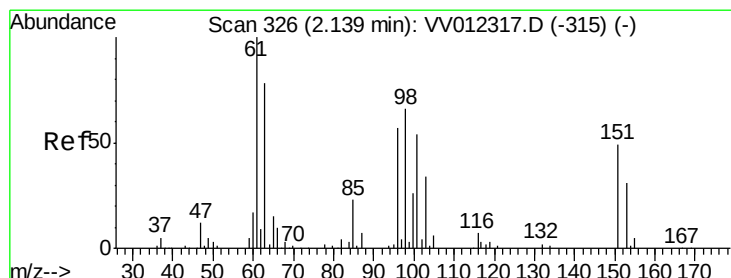
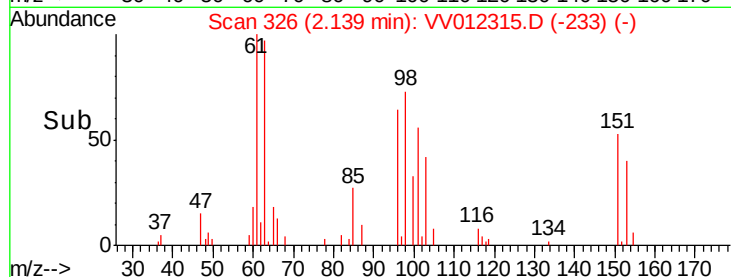
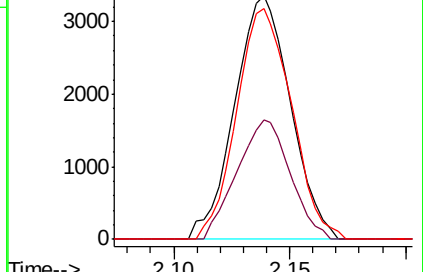
151 93.2 73.0 109.6



Abundance Ion 101.00 (100.70 to 101.70): VV012317.D (-314) (-)

Ion 85.00 (84.70 to 85.70): VV012317.D (-314) (-)

Ion 151.00 (150.70 to 151.70): VV012317.D (-314) (-)



#12

1,1-Dichloroethene

Concen: 3.785 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012315.D

Acq: 21 Aug 2019 15:23

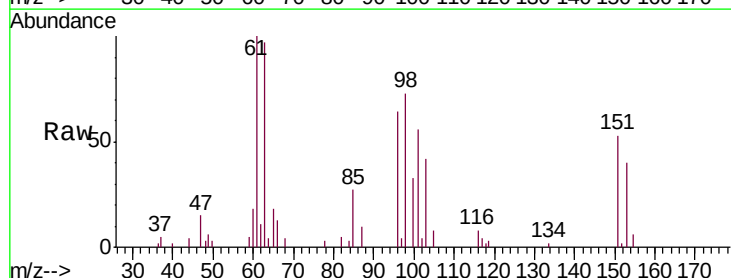
Tgt Ion: 96 Resp: 5120

Ion Ratio Lower Upper

96 100

61 156.0 122.6 227.8

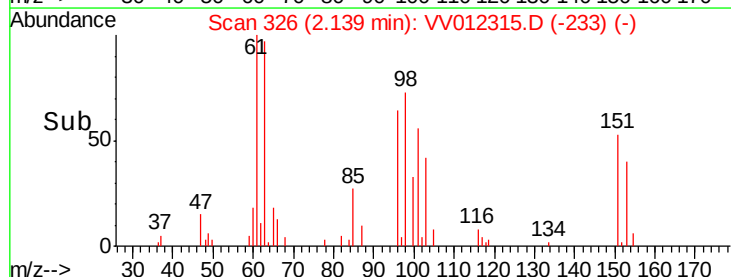
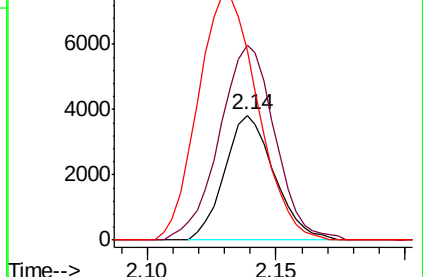
63 152.0 98.6 183.2

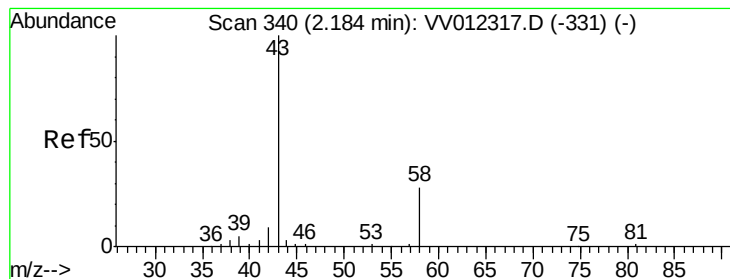


Abundance Ion 96.00 (95.70 to 96.70): VV012315.D (-233) (-)

Ion 61.00 (60.70 to 61.70): VV012315.D (-233) (-)

Ion 63.00 (62.70 to 63.70): VV012315.D (-233) (-)





#13

Acetone

Concen: 7.263 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV012315.D

Acq: 21 Aug 2019 15:23

Instrument :

MSVOA_V

ClientSampleId :

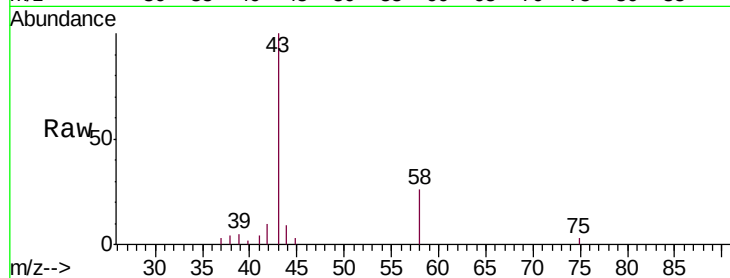
VSTD00566

Tgt Ion: 43 Resp: 7724

Ion Ratio Lower Upper

43 100

58 26.5 0.0 54.2



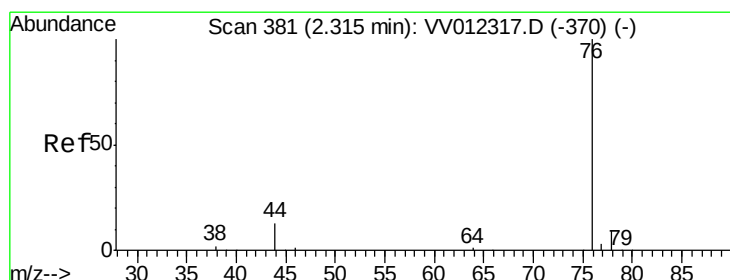
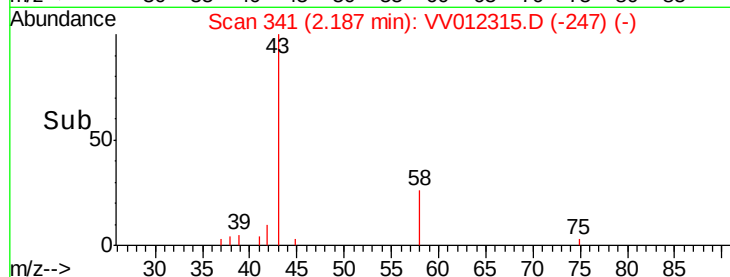
Abundance Ion 43.00 (42.70 to 43.70): VV012317.D (-331) (-)

Ion 58.00 (57.70 to 58.70): VV012317.D (-331) (-)

2.19

2.15 2.20

Time-->



#14

Carbon disulfide

Concen: 4.429 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV012315.D

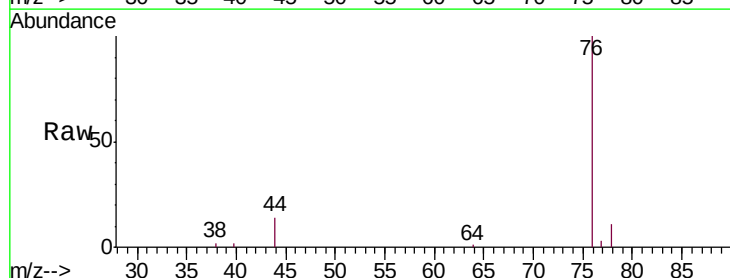
Acq: 21 Aug 2019 15:23

Tgt Ion: 76 Resp: 19871

Ion Ratio Lower Upper

76 100

78 10.6 7.6 11.4



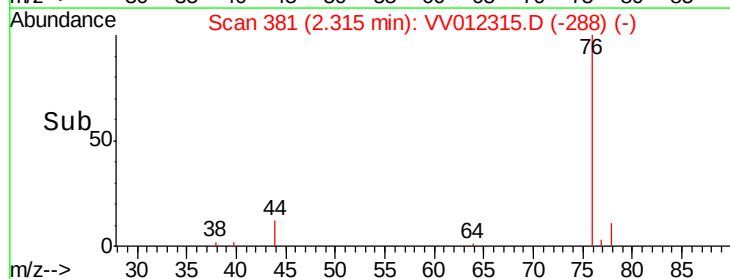
Abundance Ion 76.00 (75.70 to 76.70): VV012317.D (-370) (-)

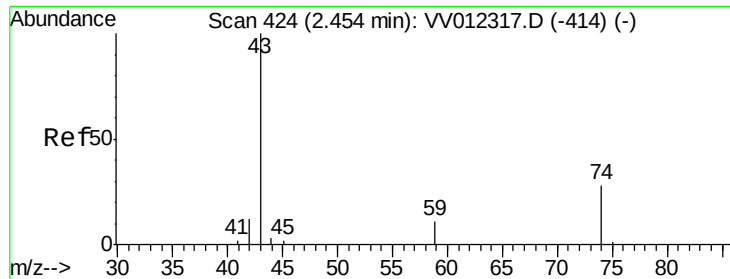
Ion 78.00 (77.70 to 78.70): VV012317.D (-370) (-)

2.32

2.25 2.30 2.35

Time-->

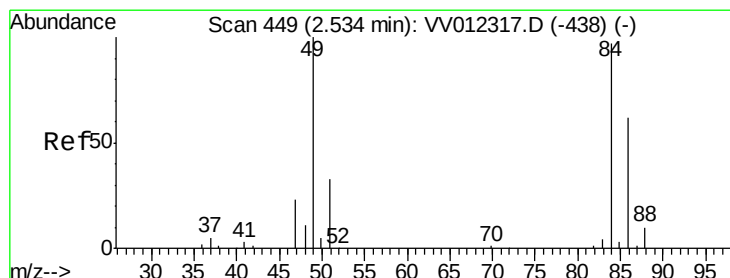
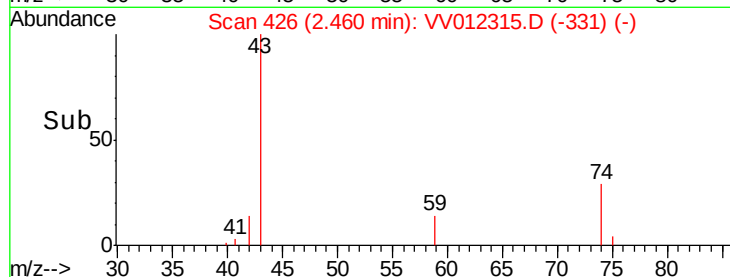
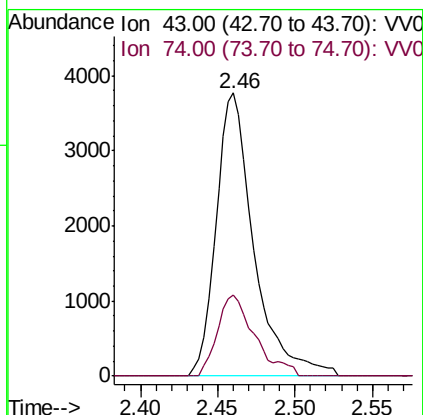
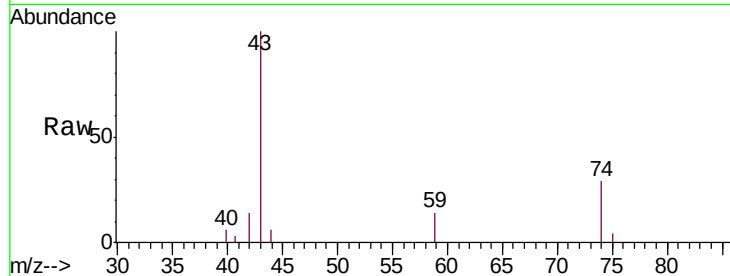




#15
Methyl Acetate
Concen: 3.621 ug/L
RT: 2.46 min Scan# 426
Delta R.T. 0.01 min
Lab File: VV012315.D
Acq: 21 Aug 2019 15:23

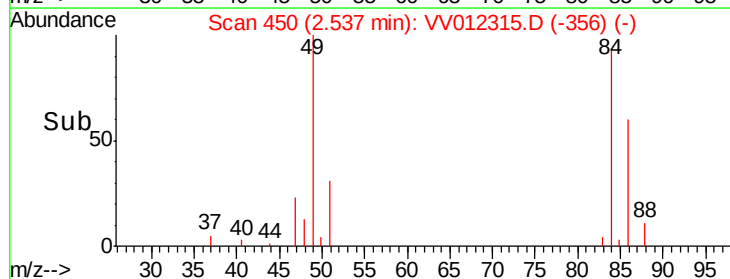
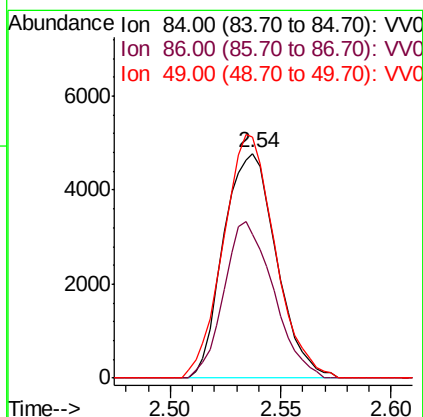
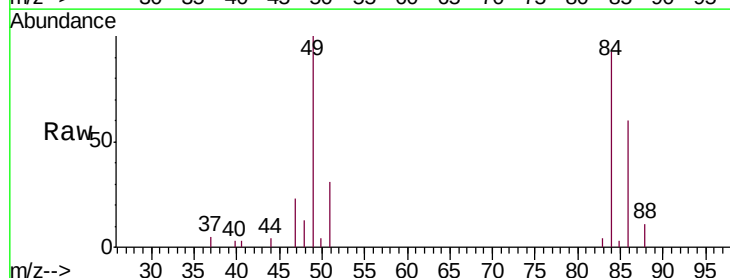
Instrument :
MSVOA_V
ClientSampleId :
VSTD00566

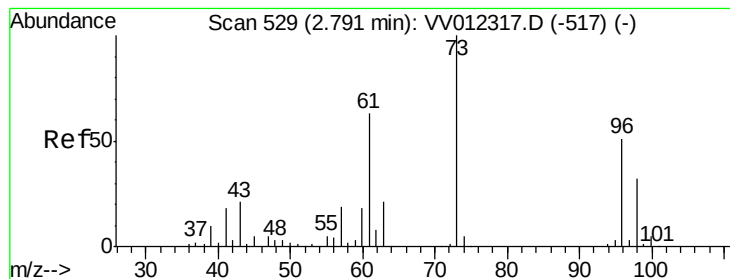
Tgt Ion: 43 Resp: 6383
Ion Ratio Lower Upper
43 100
74 26.5 22.6 33.8



#16
Methylene chloride
Concen: 4.611 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV012315.D
Acq: 21 Aug 2019 15:23

Tgt Ion: 84 Resp: 7957
Ion Ratio Lower Upper
84 100
86 64.3 44.7 83.1
49 107.1 72.1 133.9





#17

trans-1,2-Dichloroethene

Concen: 4.584 ug/L

RT: 2.79 min Scan# 529

Delta R.T. 0.00 min

Lab File: VV012315.D

Acq: 21 Aug 2019 15:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD00566

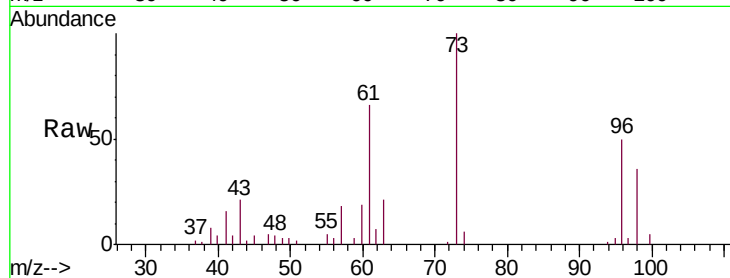
Tgt Ion: 96 Resp: 7601

Ion Ratio Lower Upper

96 100

61 132.4 87.0 161.6

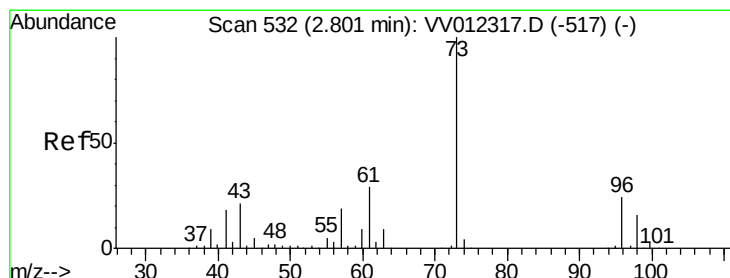
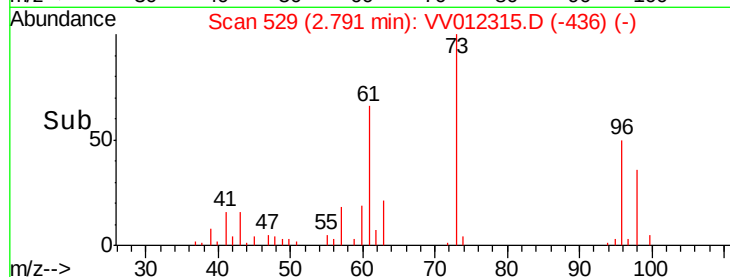
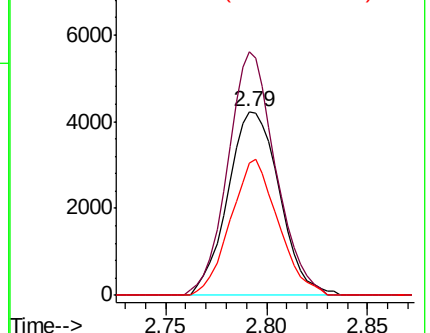
98 71.9 43.8 81.4



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



#18

Methyl tert-butyl Ether

Concen: 4.808 ug/L

RT: 2.80 min Scan# 533

Delta R.T. 0.00 min

Lab File: VV012315.D

Acq: 21 Aug 2019 15:23

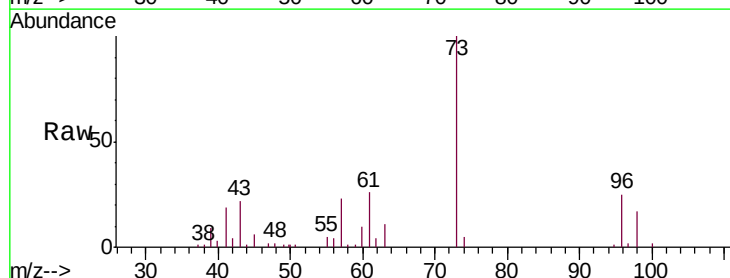
Tgt Ion: 73 Resp: 24376

Ion Ratio Lower Upper

73 100

43 21.2 16.6 25.0

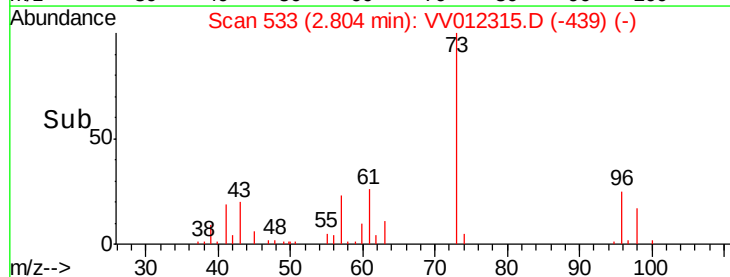
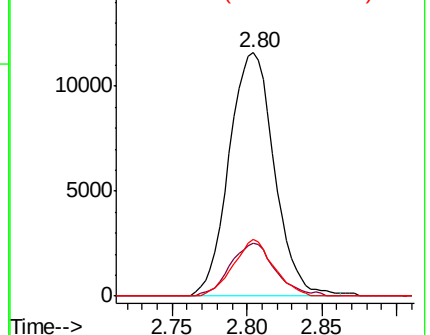
57 20.7 15.0 22.6

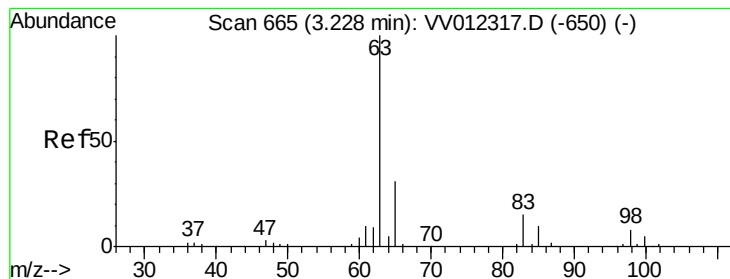


Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0





#19

1,1-Dichloroethane

Concen: 4.310 ug/L

RT: 3.23 min Scan# 665

Delta R.T. 0.00 min

Lab File: VV012315.D

Acq: 21 Aug 2019 15:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD00566

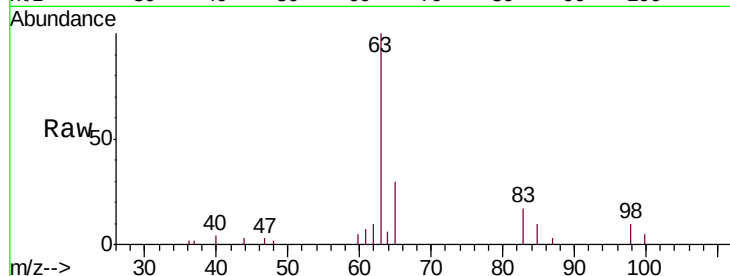
Tgt Ion: 63 Resp: 12727

Ion Ratio Lower Upper

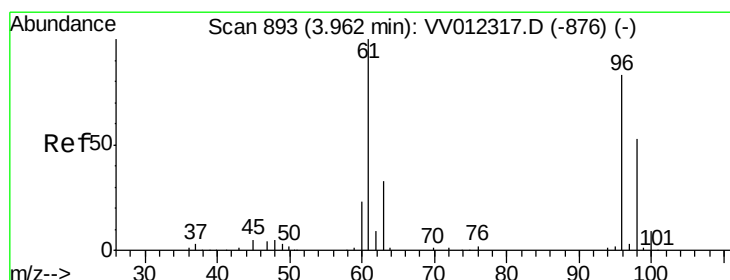
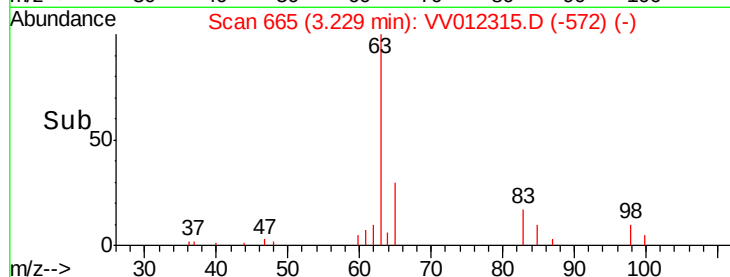
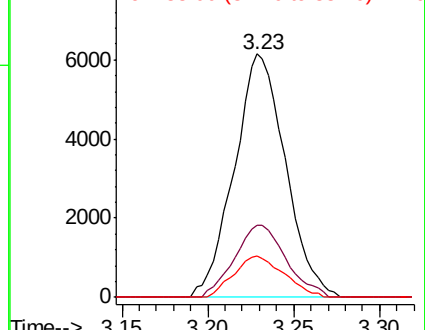
63 100

65 29.8 21.7 40.3

83 16.9 10.5 19.5



Abundance Ion 63.00 (62.70 to 63.70): VV0
Ion 65.00 (64.70 to 65.70): VV0
Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 4.423 ug/L

RT: 3.96 min Scan# 893

Delta R.T. 0.00 min

Lab File: VV012315.D

Acq: 21 Aug 2019 15:23

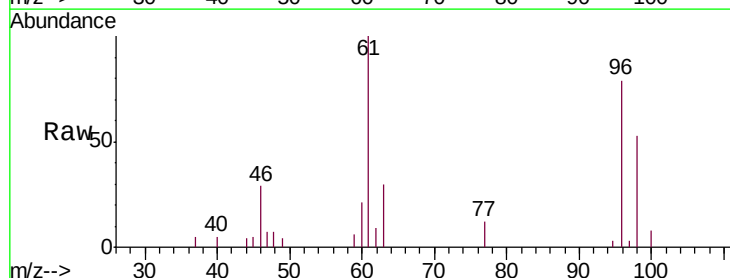
Tgt Ion: 96 Resp: 8126

Ion Ratio Lower Upper

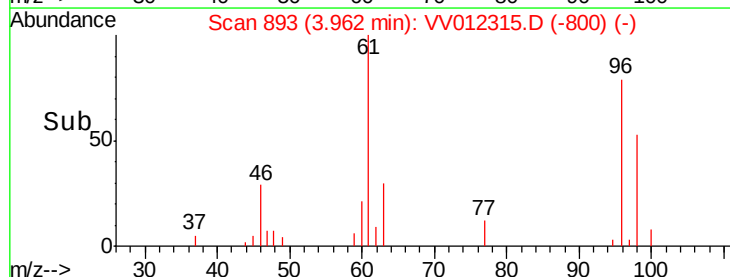
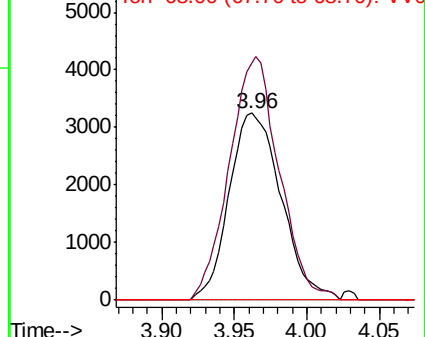
96 100

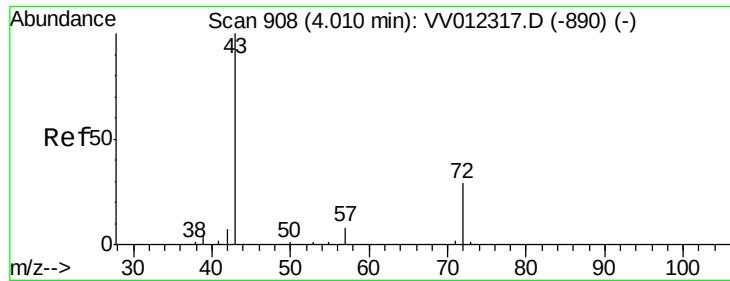
61 127.2 84.4 156.7

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 6.678 ug/L

RT: 4.02 min Scan# 911

Delta R.T. 0.01 min

Lab File: VV012315.D

Acq: 21 Aug 2019 15:23

Instrument :

MSVOA_V

ClientSampleId :

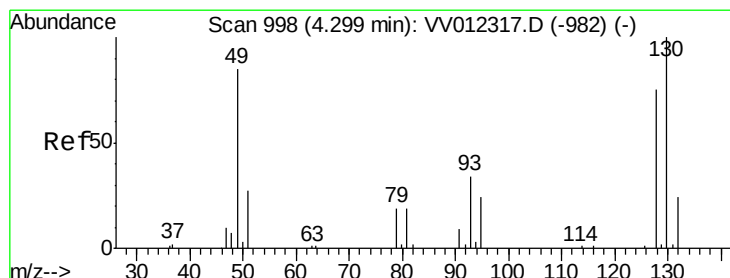
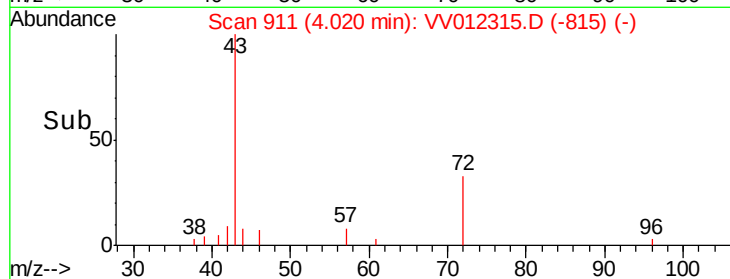
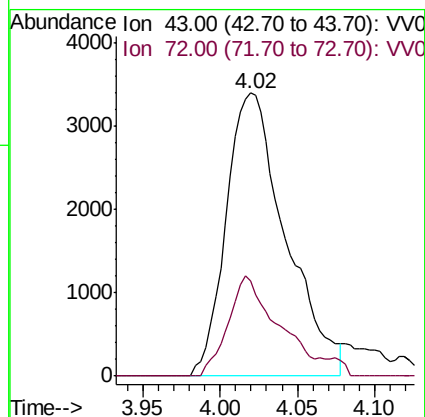
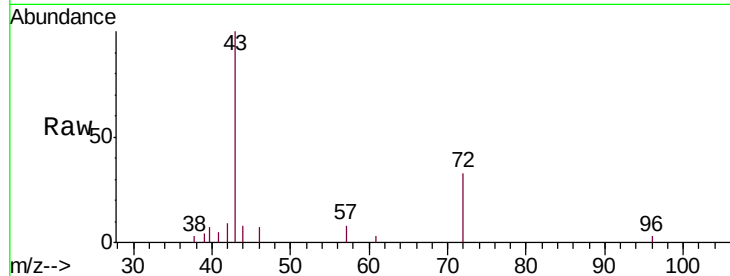
VSTD00566

Tgt Ion: 43 Resp: 9050

Ion Ratio Lower Upper

43 100

72 29.3 15.0 45.1



#23

Bromochloromethane

Concen: 4.558 ug/L

RT: 4.30 min Scan# 998

Delta R.T. 0.00 min

Lab File: VV012315.D

Acq: 21 Aug 2019 15:23

Tgt Ion: 128 Resp: 4424

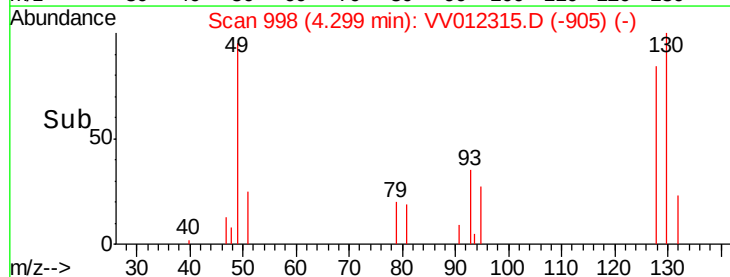
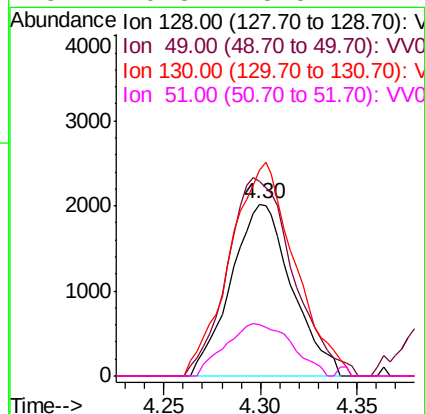
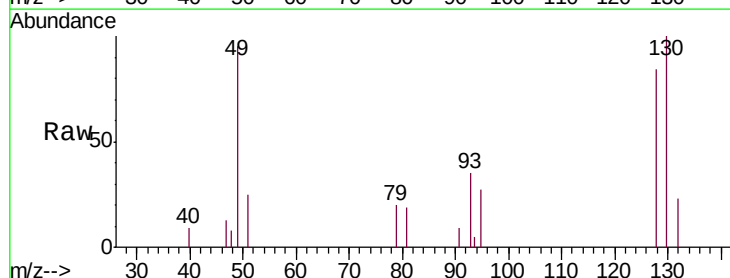
Ion Ratio Lower Upper

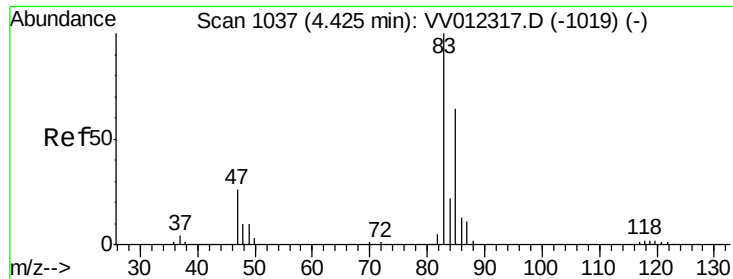
128 100

49 113.6 78.8 146.4

130 119.7 93.0 172.6

51 29.8 28.5 42.7

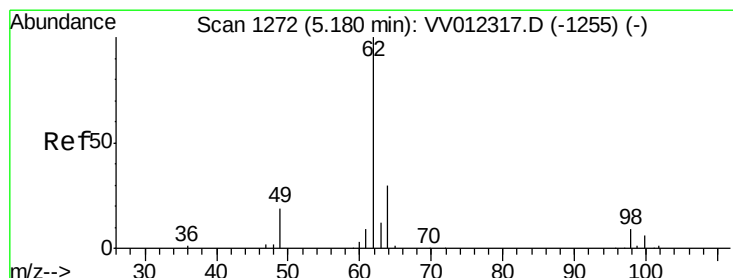
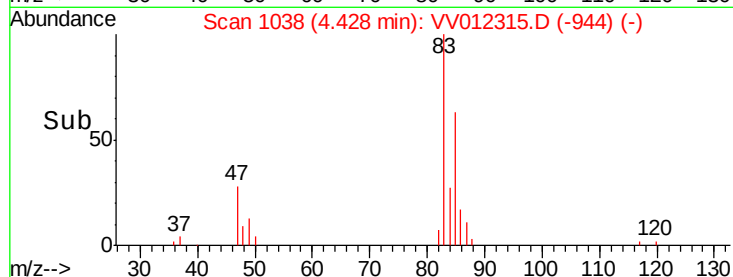
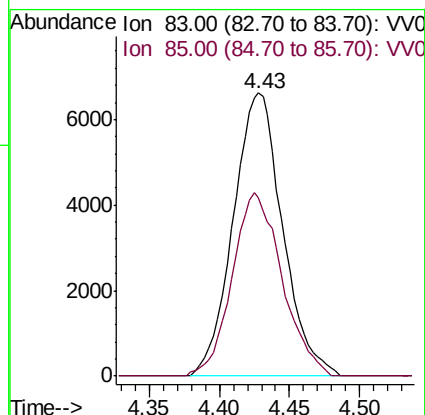
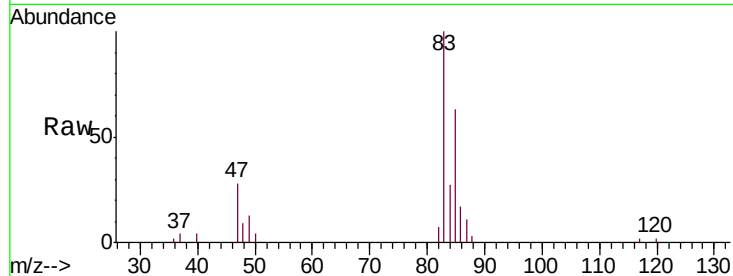




#25
Chloroform
Concen: 5.080 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. 0.00 min
Lab File: VV012315.D
Acq: 21 Aug 2019 15:23

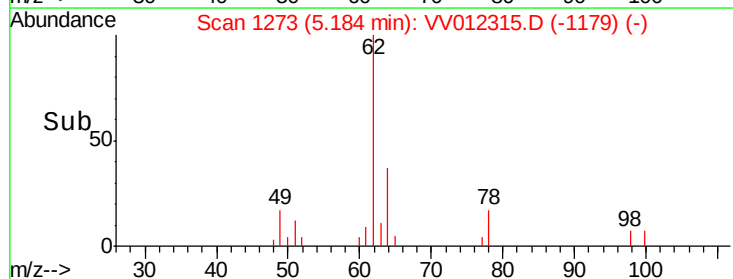
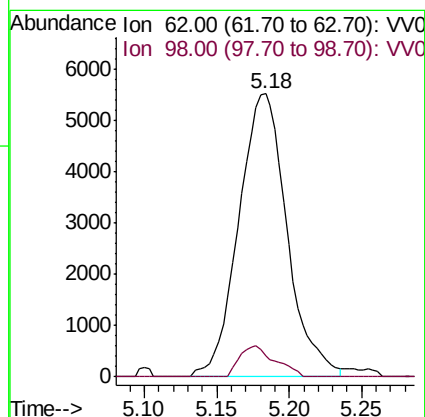
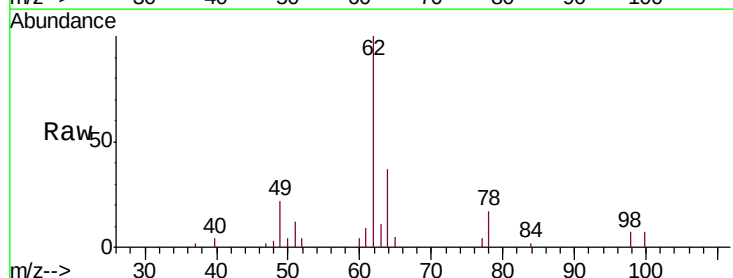
Instrument :
MSVOA_V
ClientSampleId :
VSTD00566

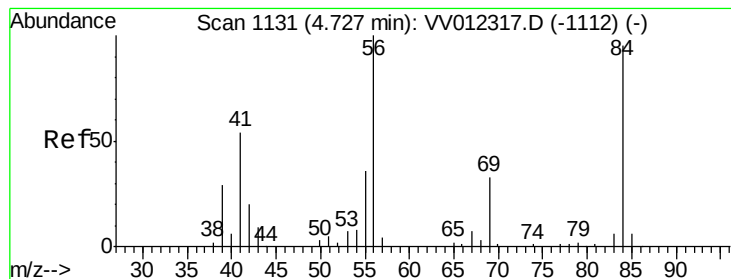
Tgt Ion: 83 Resp: 16232
Ion Ratio Lower Upper
83 100
85 62.8 44.5 82.7



#27
1,2-Dichloroethane
Concen: 5.277 ug/L
RT: 5.18 min Scan# 1273
Delta R.T. 0.00 min
Lab File: VV012315.D
Acq: 21 Aug 2019 15:23

Tgt Ion: 62 Resp: 12807
Ion Ratio Lower Upper
62 100
98 7.4 6.9 10.3





#29

Cyclohexane

Concen: 4.100 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV012315.D

Acq: 21 Aug 2019 15:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD00566

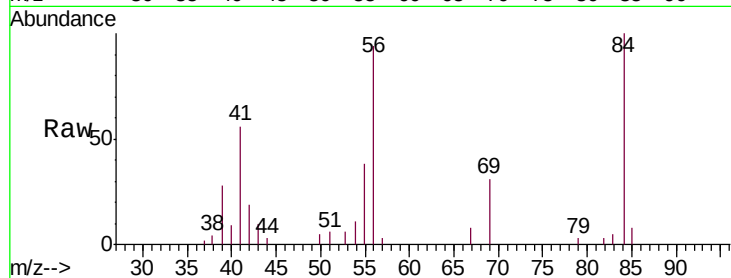
Tgt Ion: 56 Resp: 10502

Ion Ratio Lower Upper

56 100

69 34.2 26.8 40.2

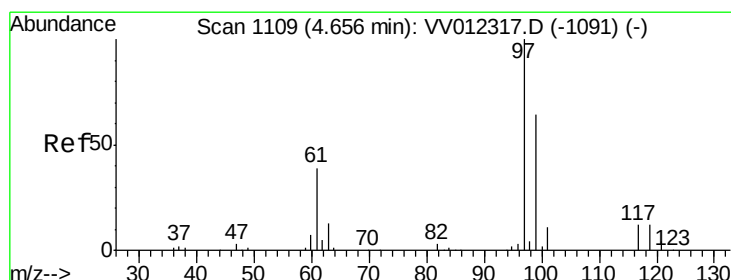
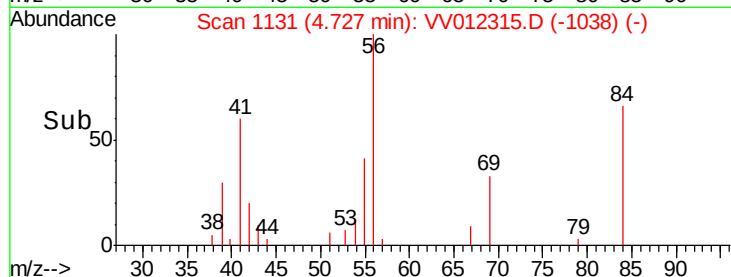
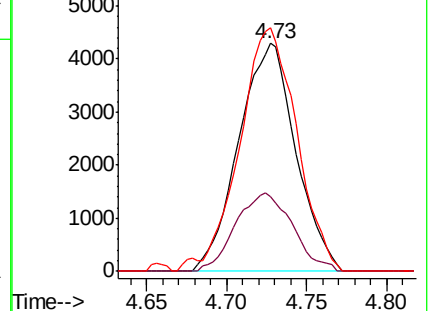
84 104.9 81.7 122.5



Abundance Ion 56.00 (55.70 to 56.70): VV012317.D (-1112) (-)

Ion 69.00 (68.70 to 69.70): VV012317.D (-1112) (-)

Ion 84.00 (83.70 to 84.70): VV012317.D (-1112) (-)



#30

1,1,1-Trichloroethane

Concen: 5.408 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VV012315.D

Acq: 21 Aug 2019 15:23

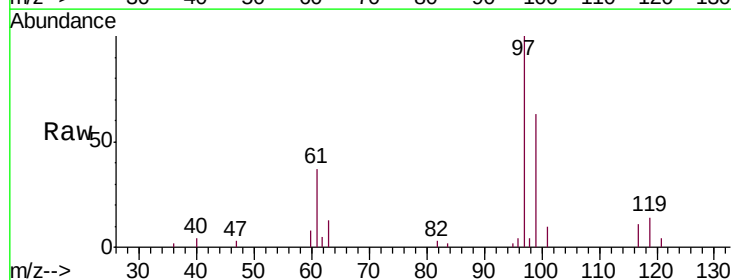
Tgt Ion: 97 Resp: 14847

Ion Ratio Lower Upper

97 100

99 62.0 50.8 76.2

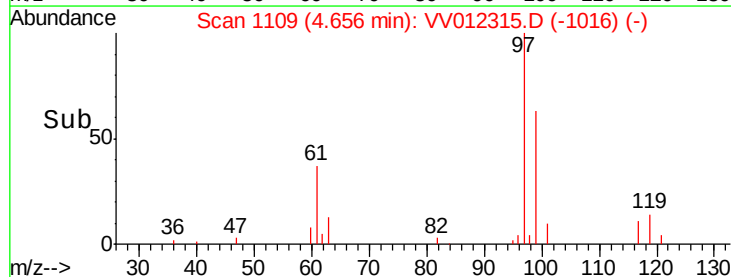
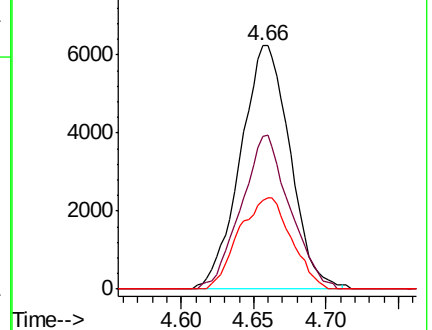
61 39.5 31.0 46.6

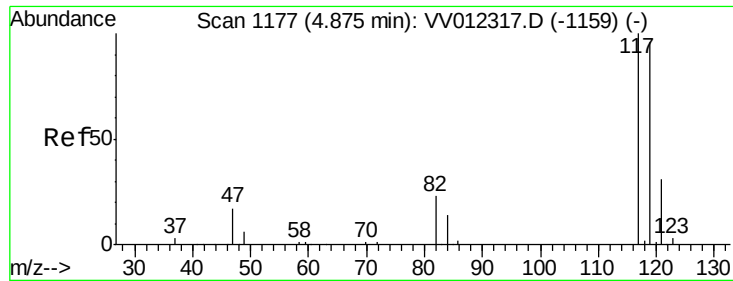


Abundance Ion 97.00 (96.70 to 97.70): VV012317.D (-1091) (-)

Ion 99.00 (98.70 to 99.70): VV012317.D (-1091) (-)

Ion 61.05 (60.75 to 61.75): VV012317.D (-1091) (-)





#31

Carbon tetrachloride

Concen: 5.515 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV012315.D

Acq: 21 Aug 2019 15:23

Instrument :

MSVOA_V

ClientSampleId :

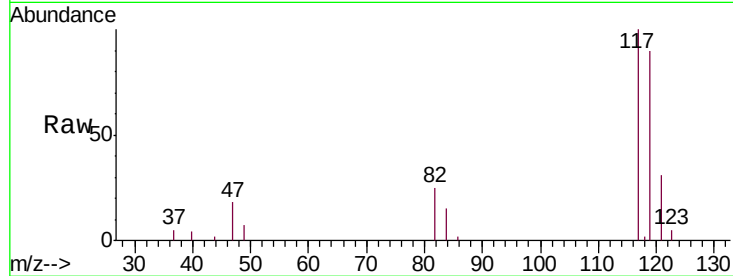
VSTD00566

Tgt Ion:117 Resp: 13646

Ion Ratio Lower Upper

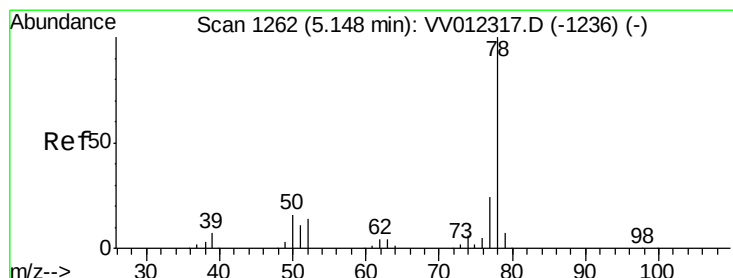
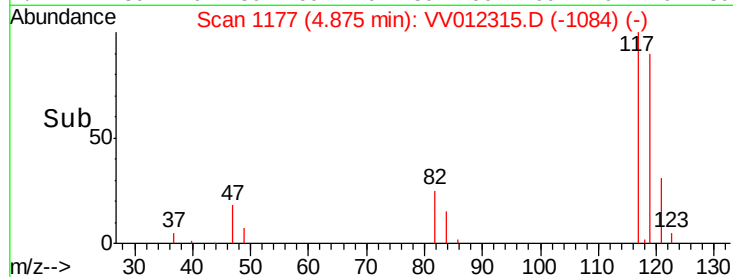
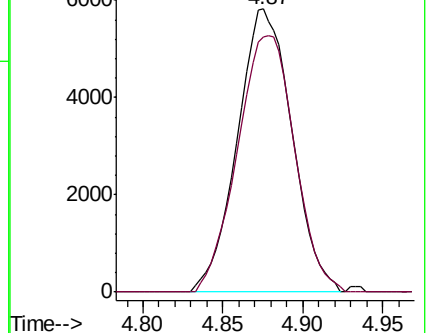
117 100

119 94.8 77.7 116.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 4.431 ug/L

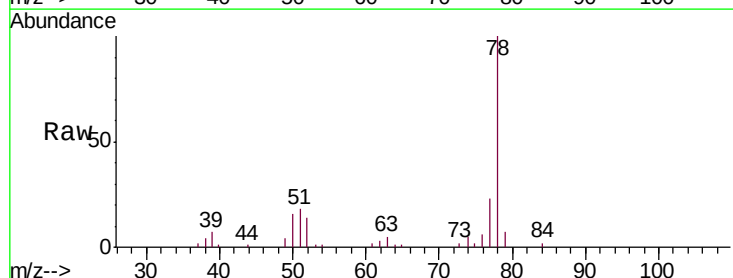
RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

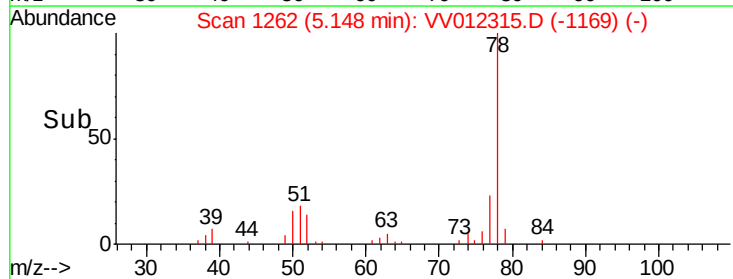
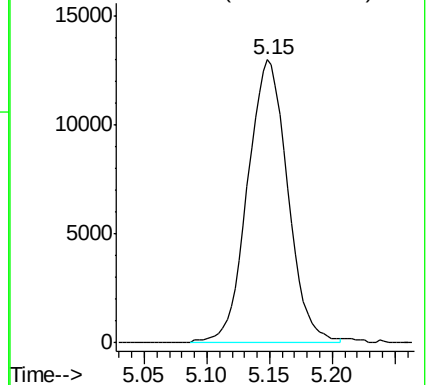
Lab File: VV012315.D

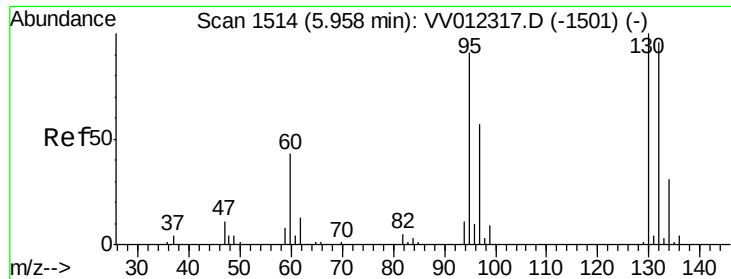
Acq: 21 Aug 2019 15:23

Tgt Ion: 78 Resp: 28925



Abundance Ion 78.00 (77.70 to 78.70): VV0

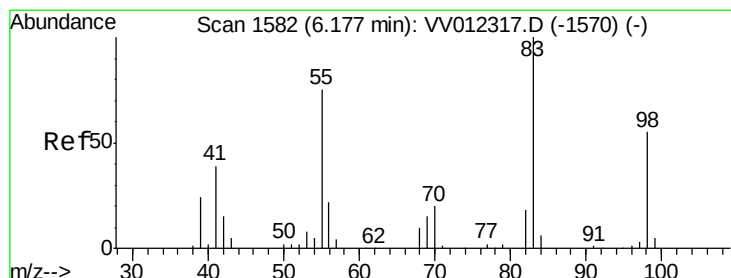
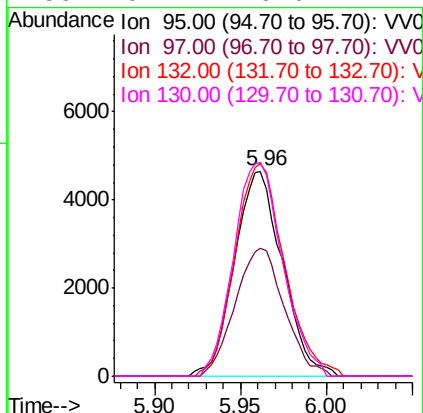
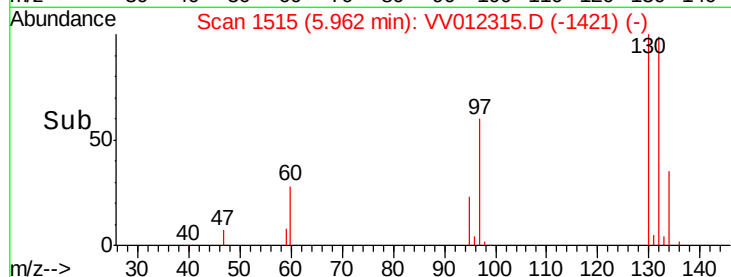
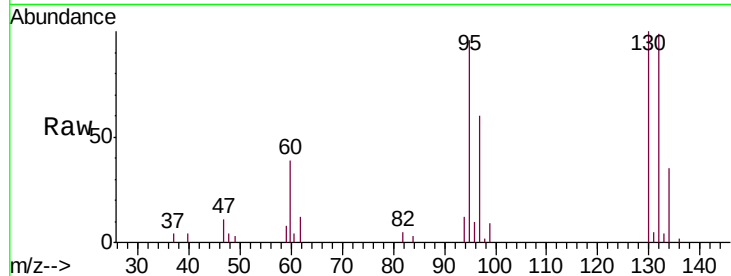




#34
 Trichloroethene
 Concen: 5.119 ug/L
 RT: 5.96 min Scan# 1515
 Delta R.T. 0.00 min
 Lab File: VV012315.D
 Acq: 21 Aug 2019 15:23

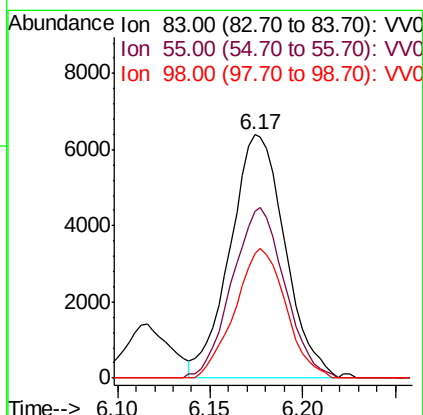
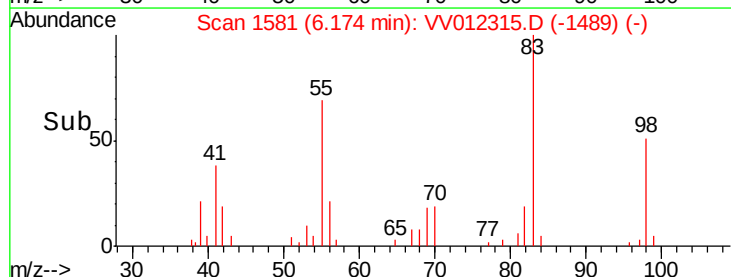
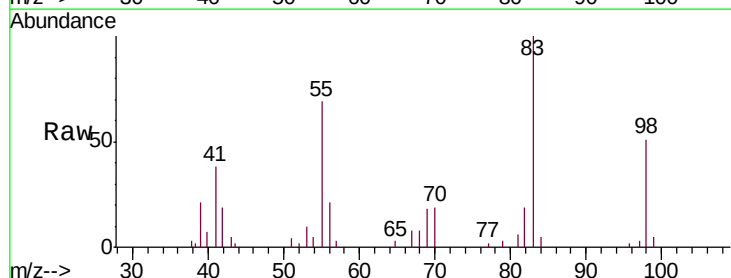
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00566

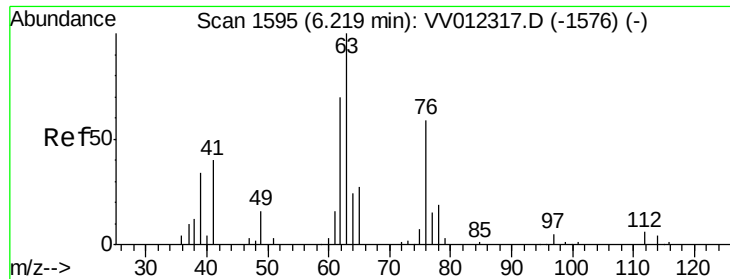
Tgt Ion: 95 Resp: 9025
 Ion Ratio Lower Upper
 95 100
 97 62.5 43.6 81.0
 132 103.3 73.9 137.3
 130 104.1 76.6 142.2



#35
 Methylcyclohexane
 Concen: 4.730 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. -0.00 min
 Lab File: VV012315.D
 Acq: 21 Aug 2019 15:23

Tgt Ion: 83 Resp: 13129
 Ion Ratio Lower Upper
 83 100
 55 67.4 56.2 84.4
 98 49.4 42.2 63.4

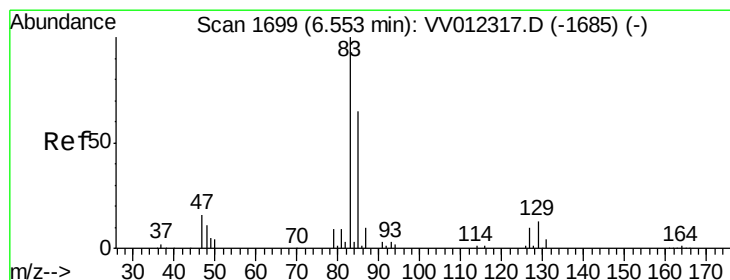
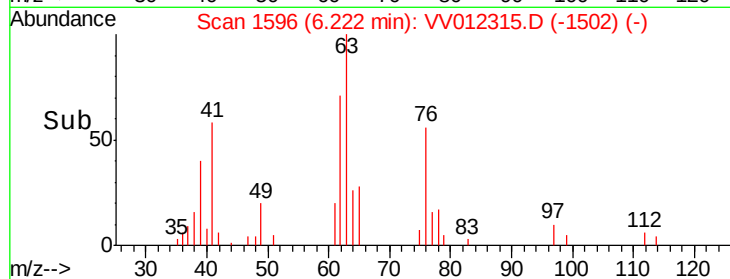
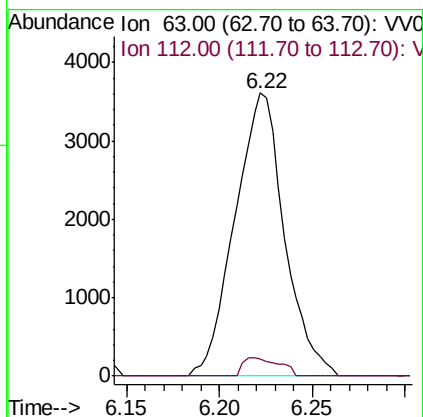
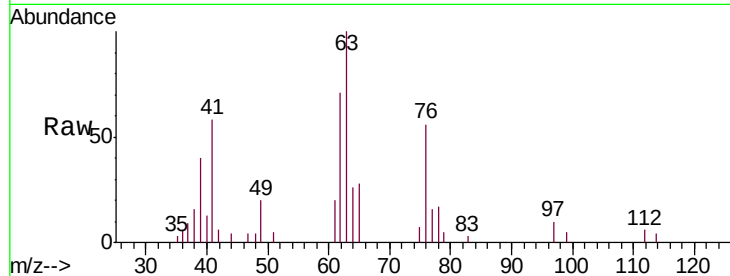




#37
 1,2-Dichloropropane
 Concen: 4.104 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. 0.00 min
 Lab File: VV012315.D
 Acq: 21 Aug 2019 15:23

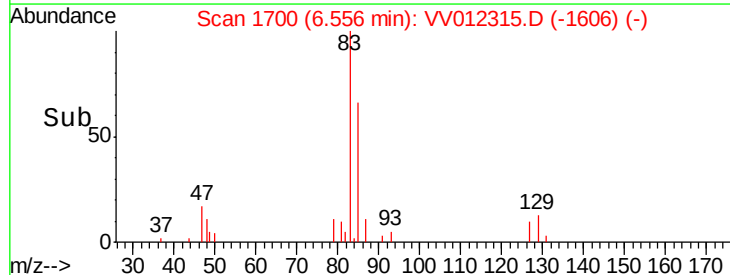
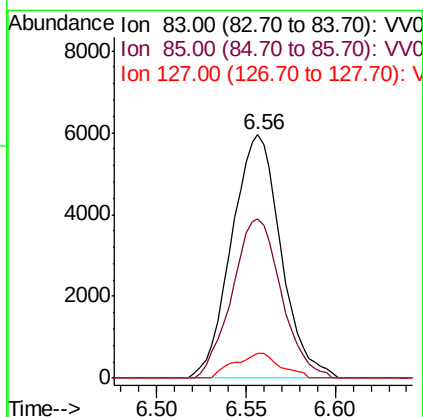
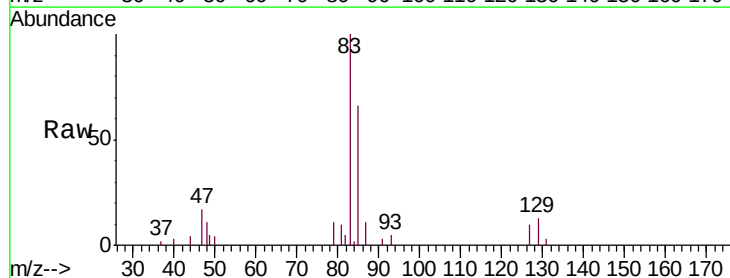
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00566

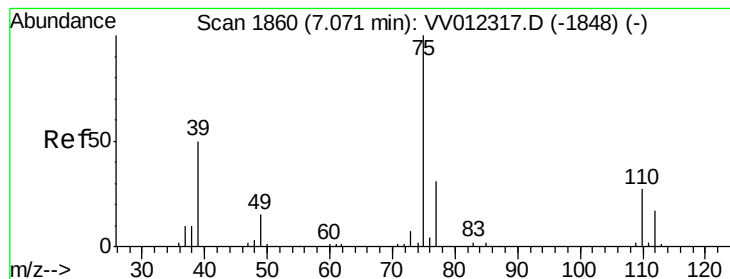
Tgt Ion: 63 Resp: 6709
 Ion Ratio Lower Upper
 63 100
 112 4.7 4.7 7.1#



#38
 Bromodichloromethane
 Concen: 5.009 ug/L
 RT: 6.56 min Scan# 1700
 Delta R.T. 0.00 min
 Lab File: VV012315.D
 Acq: 21 Aug 2019 15:23

Tgt Ion: 83 Resp: 11462
 Ion Ratio Lower Upper
 83 100
 85 65.5 45.7 84.9
 127 10.3 7.8 11.8





#39

cis-1,3-Dichloropropene

Concen: 4.170 ug/L

RT: 7.07 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VV012315.D

Acq: 21 Aug 2019 15:23

Instrument :

MSVOA_V

ClientSampleId :

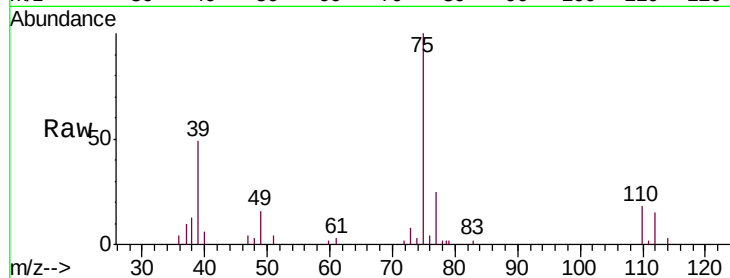
VSTD00566

Tgt Ion: 75 Resp: 11024

Ion Ratio Lower Upper

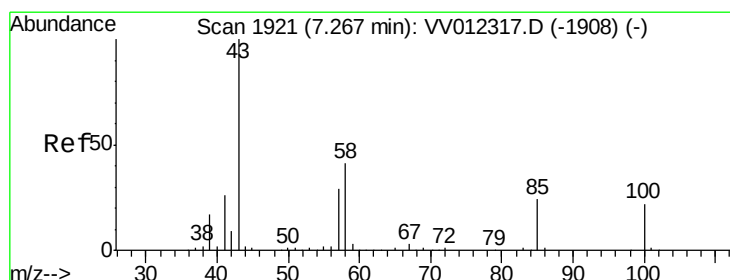
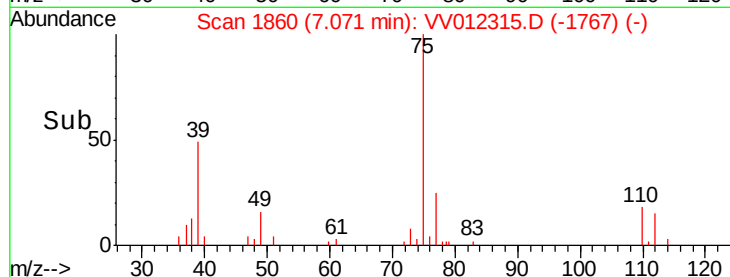
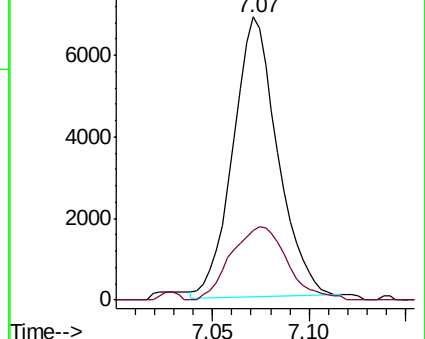
75 100

77 24.5 22.5 41.7



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0



#40

4-Methyl-2-pentanone

Concen: 7.108 ug/L

RT: 7.27 min Scan# 1922

Delta R.T. 0.00 min

Lab File: VV012315.D

Acq: 21 Aug 2019 15:23

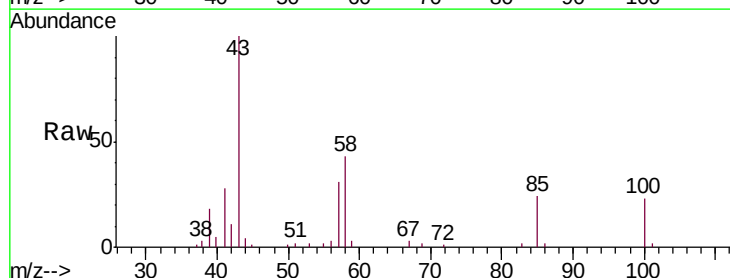
Tgt Ion: 43 Resp: 16031

Ion Ratio Lower Upper

43 100

58 43.2 33.7 50.5

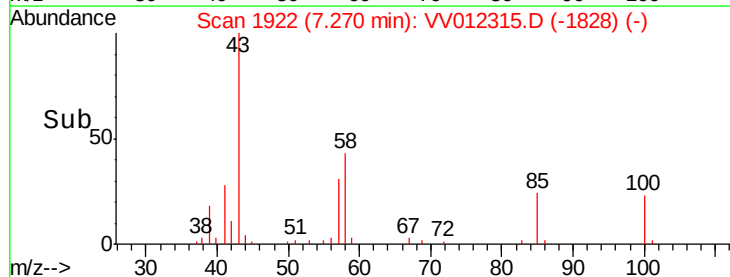
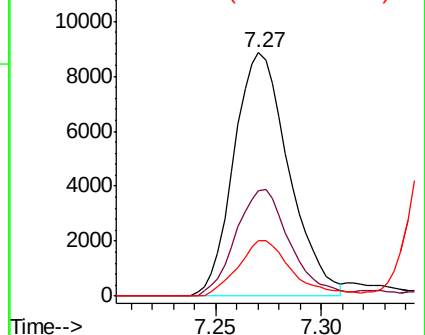
100 22.3 17.8 26.6

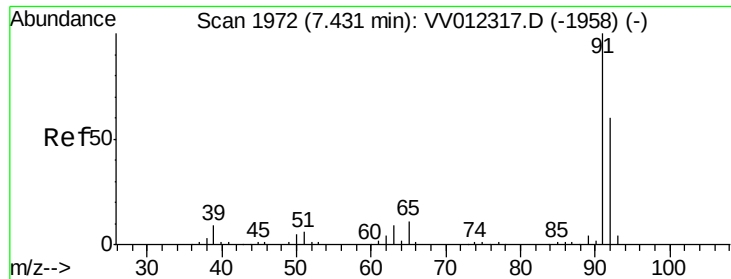


Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 100.00 (99.70 to 100.70): VV0





#42

Toluene

Concen: 4.615 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV012315.D

Acq: 21 Aug 2019 15:23

Instrument :

MSVOA_V

ClientSampleId :

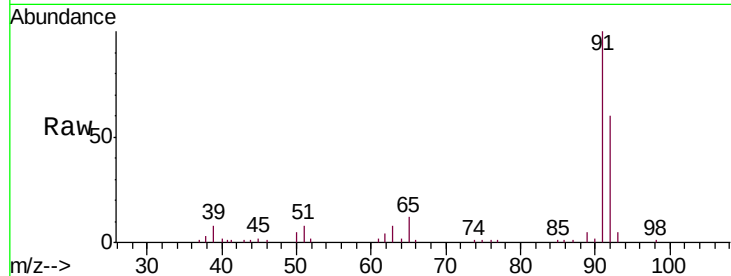
VSTD00566

Tgt Ion: 91 Resp: 32369

Ion Ratio Lower Upper

91 100

92 59.6 42.4 78.6



Abundance Ion 91.00 (90.70 to 91.70): VV012317.D (-1958) (-)

Ion 92.00 (91.70 to 92.70): VV012317.D (-1958) (-)

7.43

20000

15000

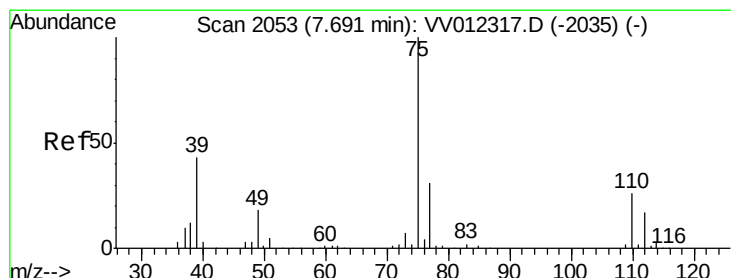
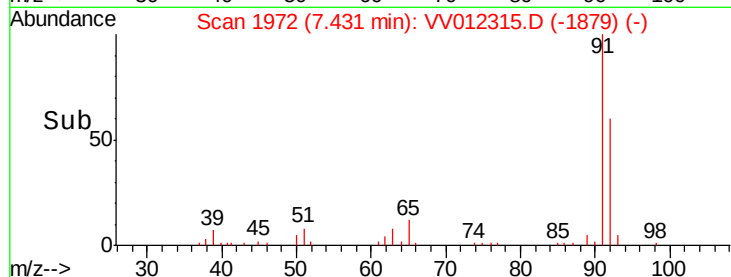
10000

5000

0

7.40 7.45 7.50

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.360 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV012315.D

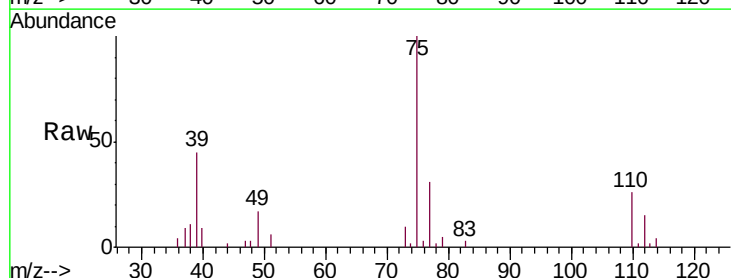
Acq: 21 Aug 2019 15:23

Tgt Ion: 75 Resp: 10608

Ion Ratio Lower Upper

75 100

77 30.6 21.7 40.3



Abundance Ion 75.00 (74.70 to 75.70): VV012317.D (-2035) (-)

Ion 77.00 (76.70 to 77.70): VV012317.D (-2035) (-)

7.69

6000

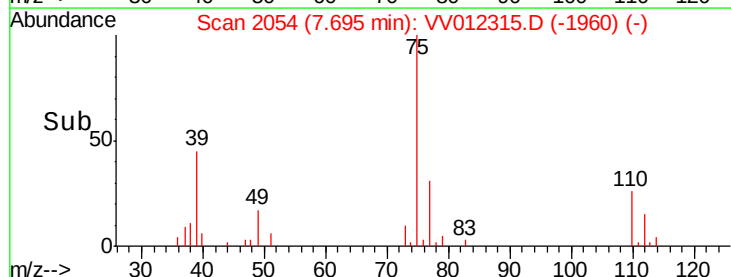
4000

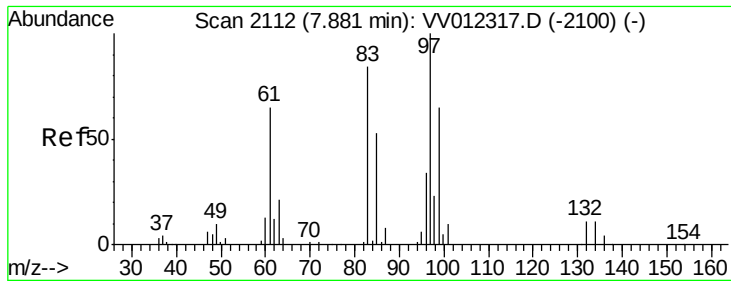
2000

0

7.65 7.70 7.75

Time-->

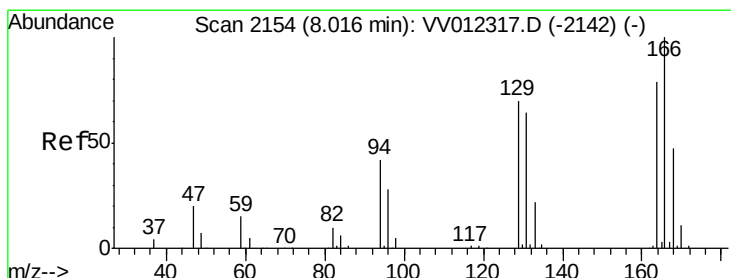
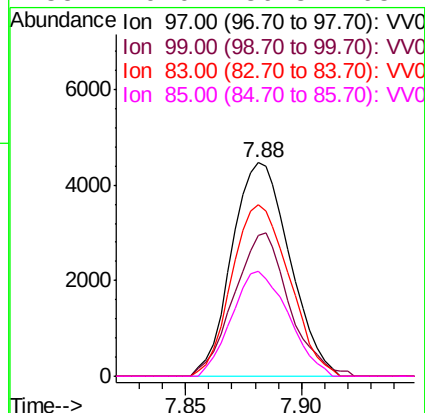
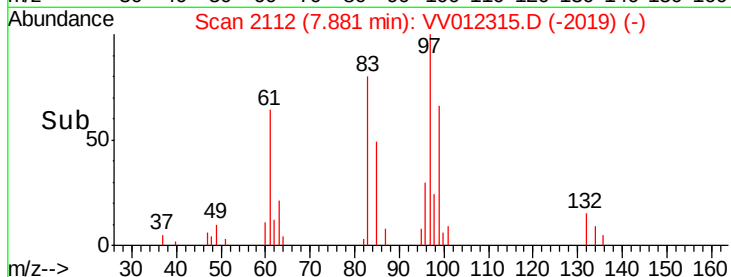
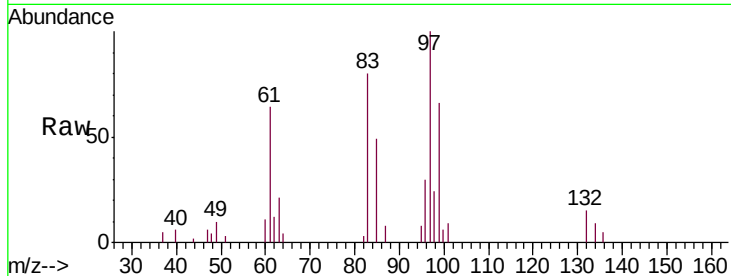




#45
 1,1,2-Trichloroethane
 Concen: 4.704 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV012315.D
 Acq: 21 Aug 2019 15:23

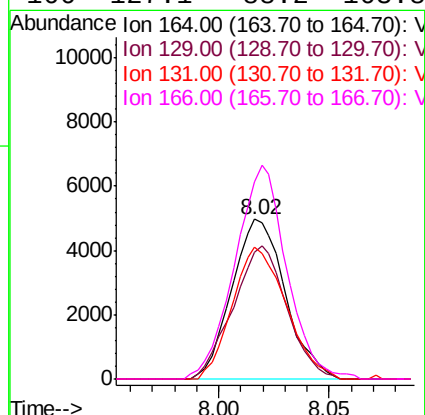
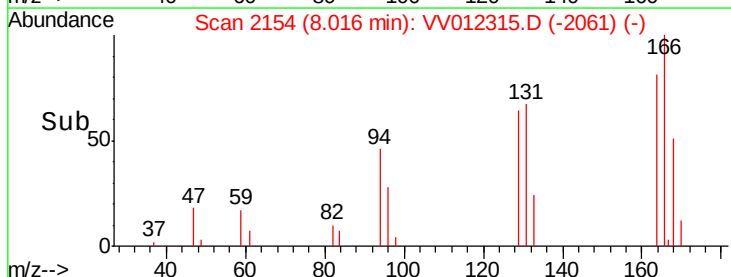
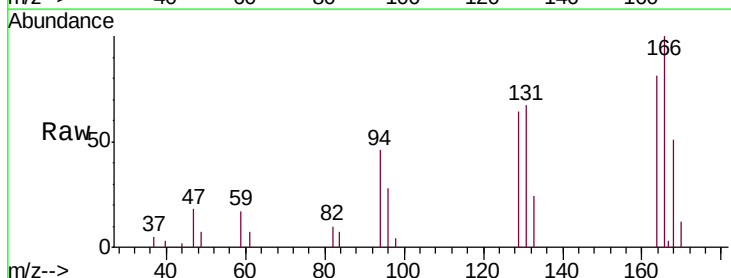
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00566

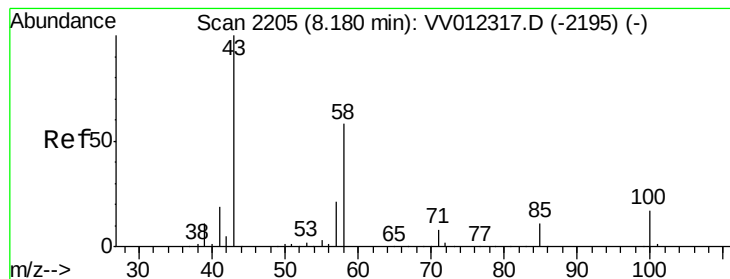
Tgt Ion:	97	Resp:	7744
Ion	Ratio	Lower	Upper
97	100		
99	72.2	45.5	84.5
83	80.2	58.5	108.7
85	49.0	36.8	68.4



#46
 Tetrachloroethene
 Concen: 5.461 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV012315.D
 Acq: 21 Aug 2019 15:23

Tgt Ion:	164	Resp:	8366
Ion	Ratio	Lower	Upper
164	100		
129	79.2	61.5	114.3
131	82.4	56.6	105.0
166	127.1	88.2	163.8





#48

2-Hexanone

Concen: 6.793 ug/L

RT: 8.18 min Scan# 2206

Delta R.T. 0.00 min

Lab File: VV012315.D

Acq: 21 Aug 2019 15:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD00566

Tgt Ion: 43 Resp: 12464

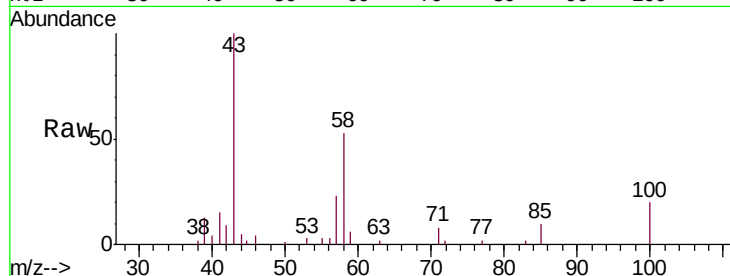
Ion Ratio Lower Upper

43 100

58 55.9 45.7 68.5

57 23.9 16.8 25.2

100 19.3 13.7 20.5

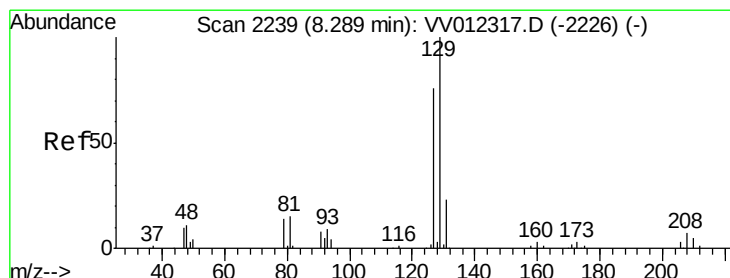
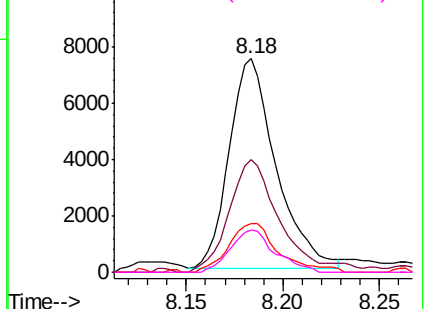
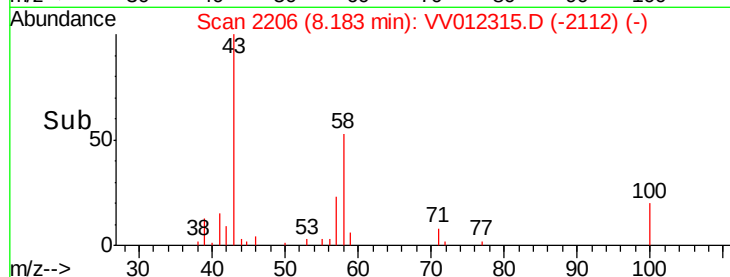


Abundance Ion 43.00 (42.70 to 43.70): VV012317.D (-2195) (-)

Ion 58.00 (57.70 to 58.70): VV012317.D (-2195) (-)

Ion 57.00 (56.70 to 57.70): VV012317.D (-2195) (-)

Ion 100.00 (99.70 to 100.70): VV012317.D (-2195) (-)



#49

Dibromochloromethane

Concen: 5.183 ug/L

RT: 8.29 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VV012315.D

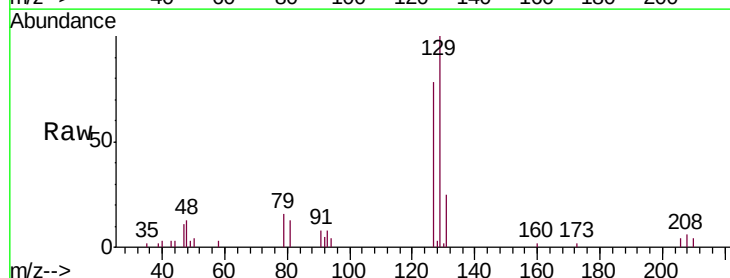
Acq: 21 Aug 2019 15:23

Tgt Ion: 129 Resp: 9959

Ion Ratio Lower Upper

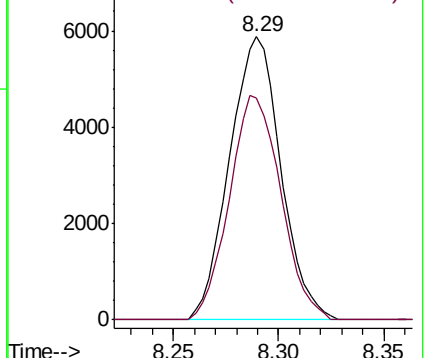
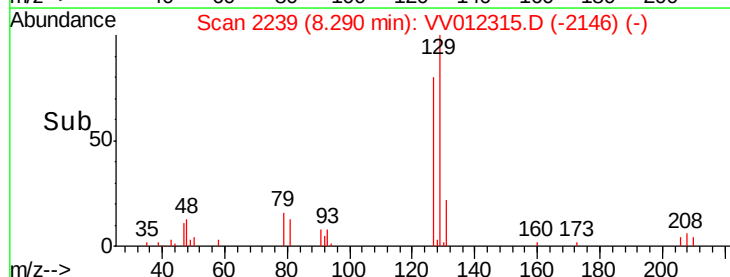
129 100

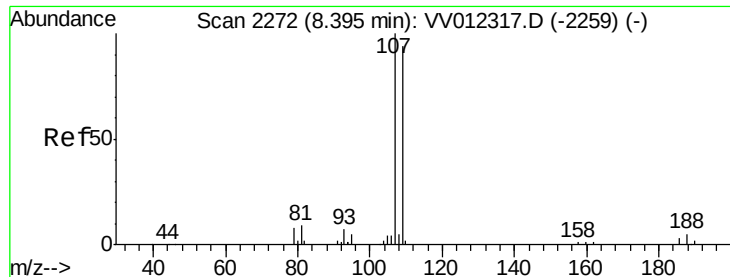
127 78.3 53.5 99.5



Abundance Ion 129.00 (128.70 to 129.70): VV012317.D (-2226) (-)

Ion 127.00 (126.70 to 127.70): VV012317.D (-2226) (-)

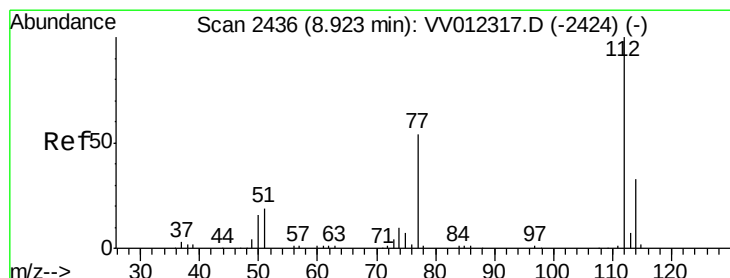
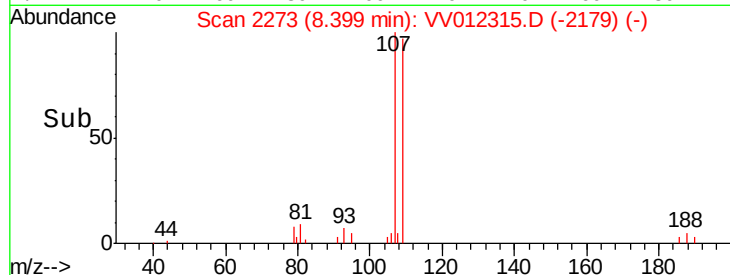
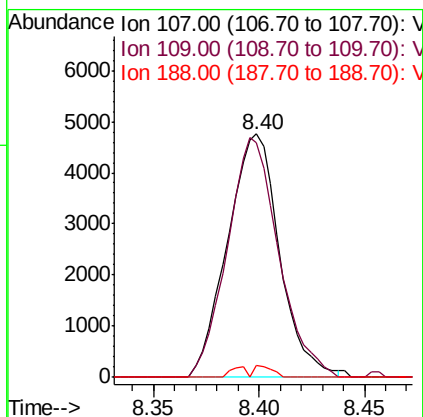
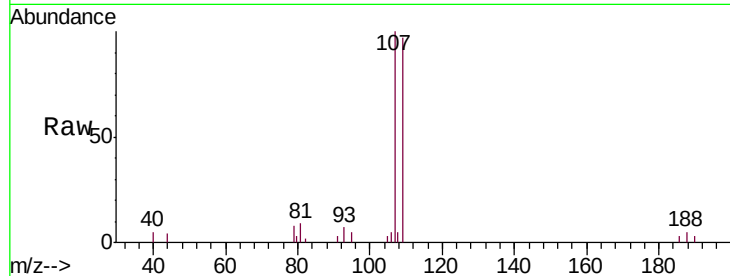




#50
1,2-Dibromoethane
Concen: 4.581 ug/L
RT: 8.40 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VV012315.D
Acq: 21 Aug 2019 15:23

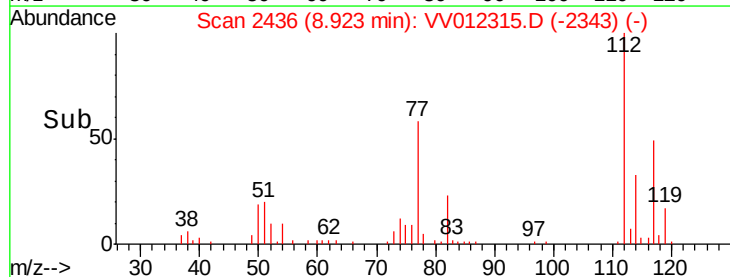
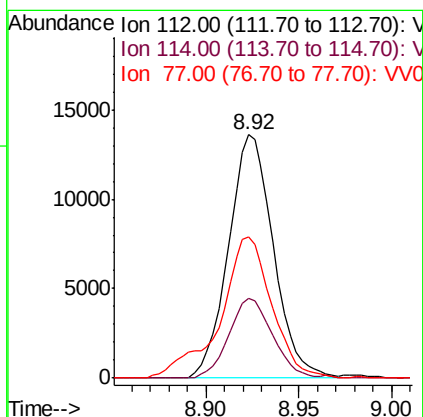
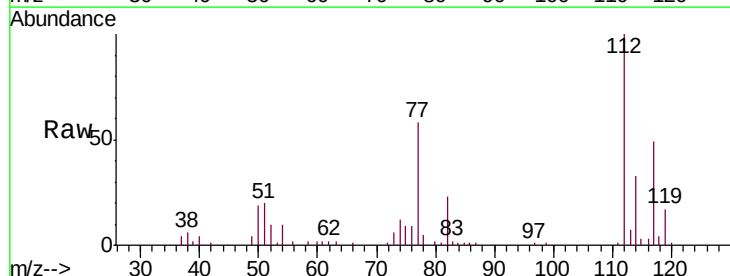
Instrument :
MSVOA_V
ClientSampleId :
VSTD00566

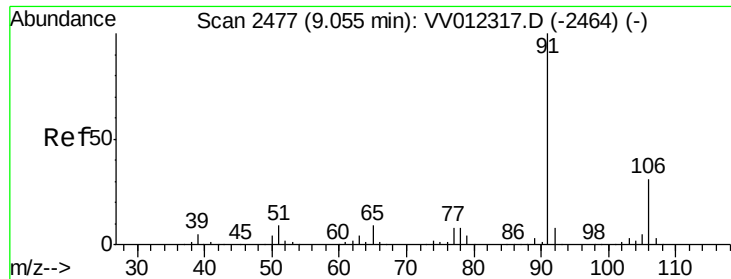
Tgt Ion:107 Resp: 8152
Ion Ratio Lower Upper
107 100
109 96.6 65.7 121.9
188 5.1 3.9 5.9



#51
Chlorobenzene
Concen: 4.841 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV012315.D
Acq: 21 Aug 2019 15:23

Tgt Ion:112 Resp: 22801
Ion Ratio Lower Upper
112 100
114 32.5 23.4 43.6
77 58.2 43.8 65.6





#52

Ethylbenzene

Concen: 4.764 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV012315.D

Acq: 21 Aug 2019 15:23

Instrument :

MSVOA_V

ClientSampleId :

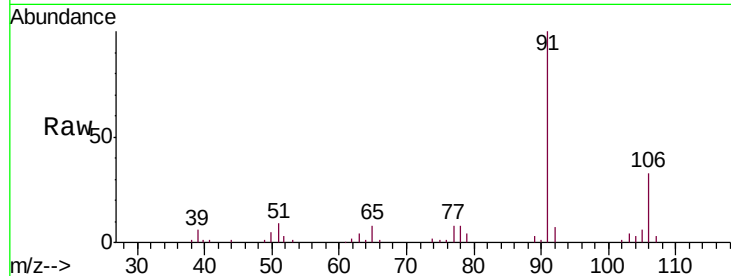
VSTD00566

Tgt Ion: 91 Resp: 37099

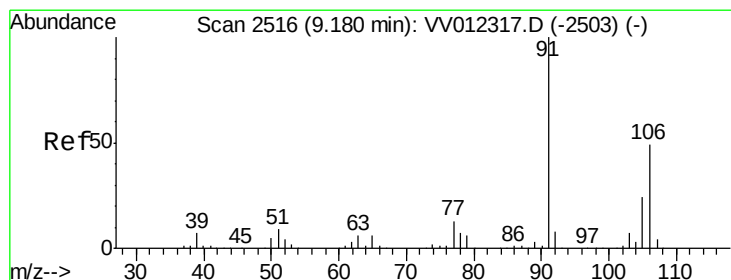
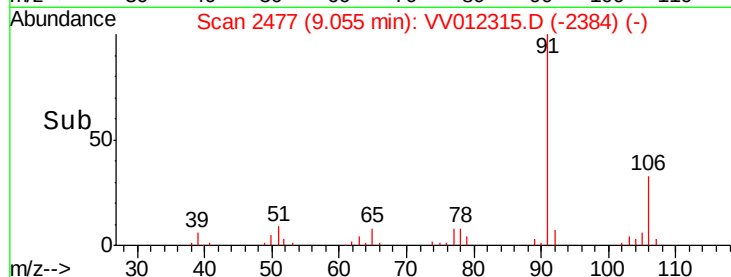
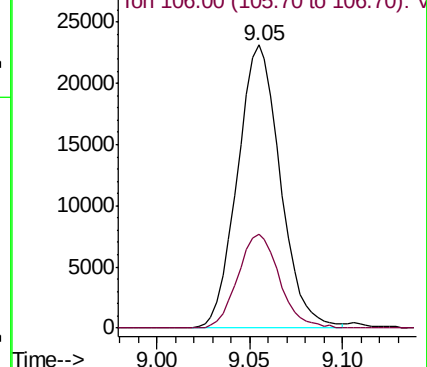
Ion Ratio Lower Upper

91 100

106 33.2 22.0 41.0



Abundance Ion 91.00 (90.70 to 91.70): VV012315.D (-2464) (-)



#53

m,p-Xylene

Concen: 4.848 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV012315.D

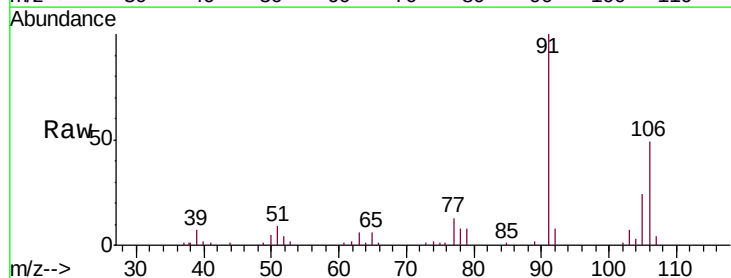
Acq: 21 Aug 2019 15:23

Tgt Ion: 106 Resp: 14505

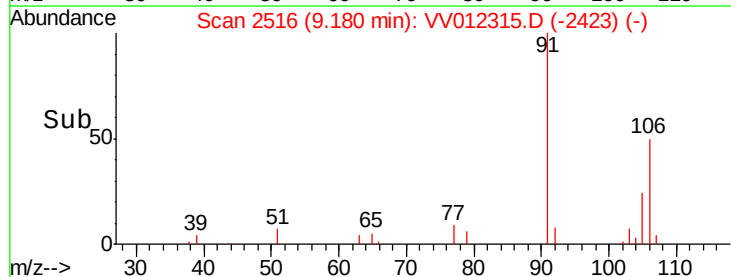
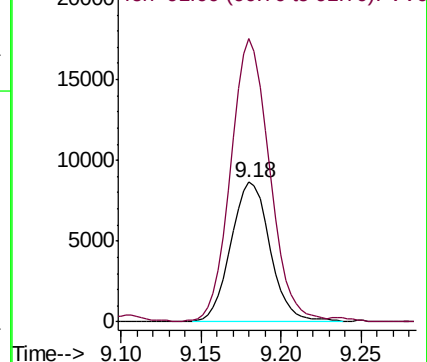
Ion Ratio Lower Upper

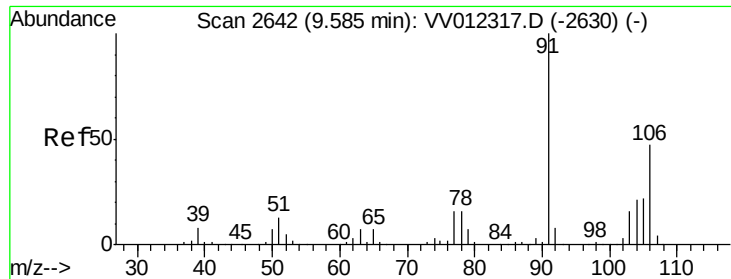
106 100

91 202.9 143.5 266.5



Abundance Ion 106.00 (105.70 to 106.70): VV012315.D (-2503) (-)





#54

o-xylene

Concen: 4.850 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV012315.D

Acq: 21 Aug 2019 15:23

Instrument :

MSVOA_V

ClientSampleId :

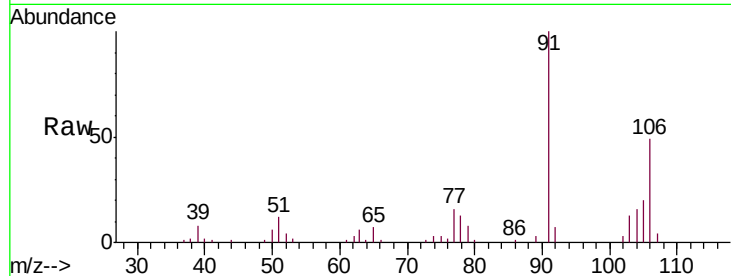
VSTD00566

Tgt Ion:106 Resp: 14101

Ion Ratio Lower Upper

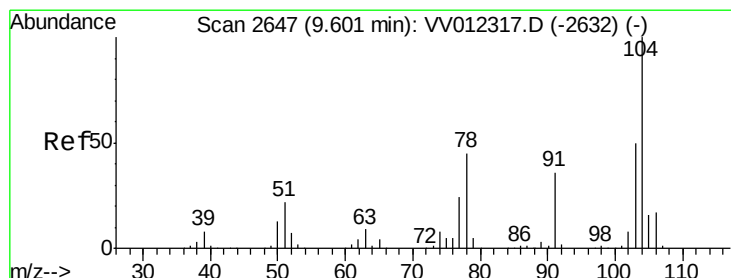
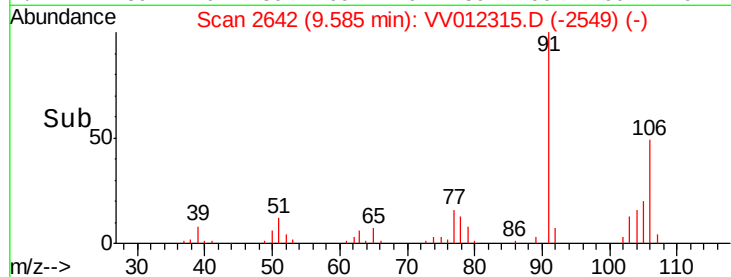
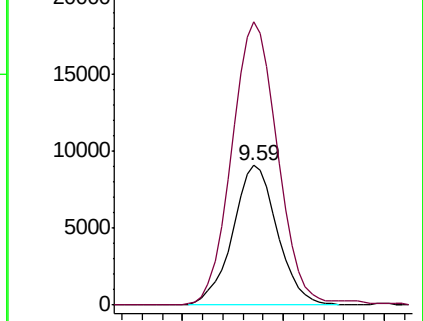
106 100

91 202.4 149.2 277.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 4.528 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV012315.D

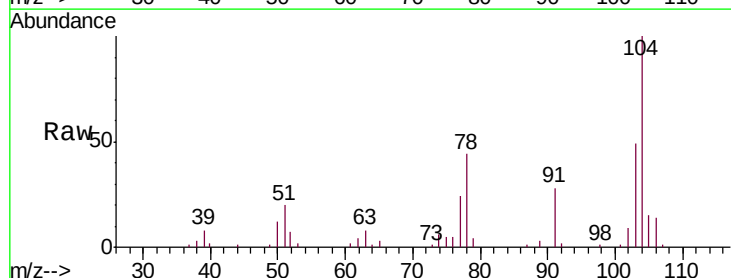
Acq: 21 Aug 2019 15:23

Tgt Ion:104 Resp: 22509

Ion Ratio Lower Upper

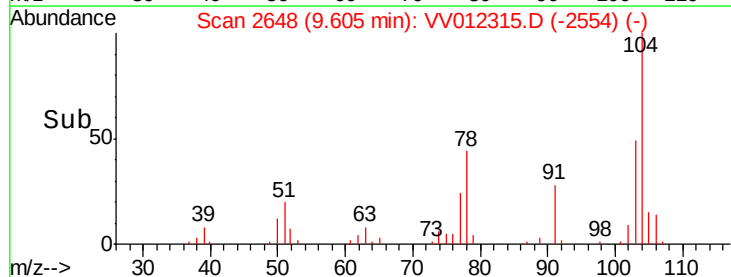
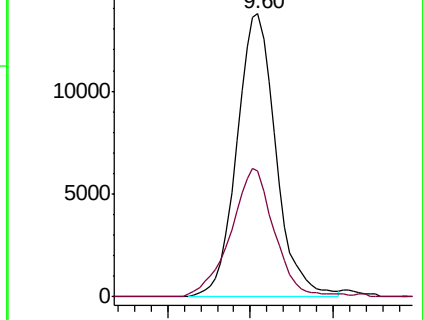
104 100

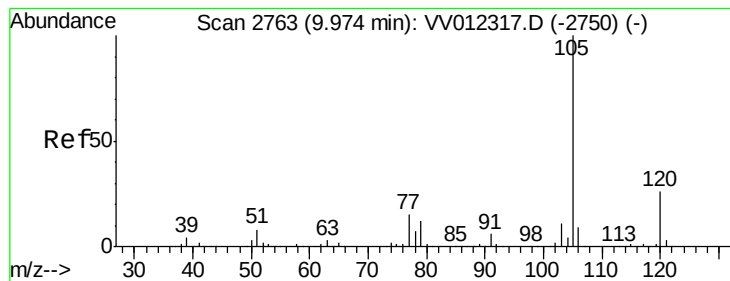
78 44.3 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 4.904 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV012315.D

Acq: 21 Aug 2019 15:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD00566

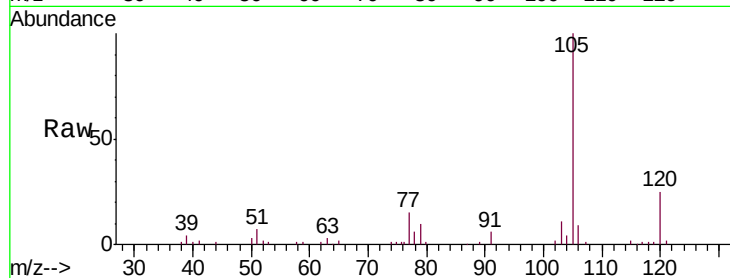
Tgt Ion: 105 Resp: 37804

Ion Ratio Lower Upper

105 100

120 26.6 21.2 31.8

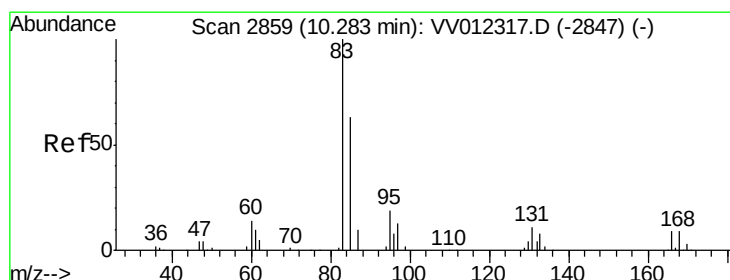
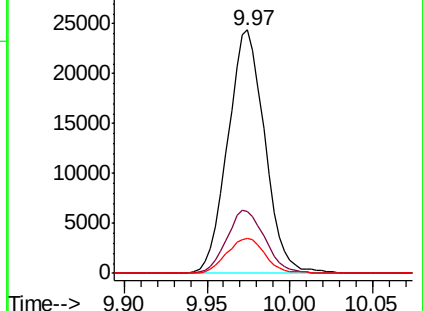
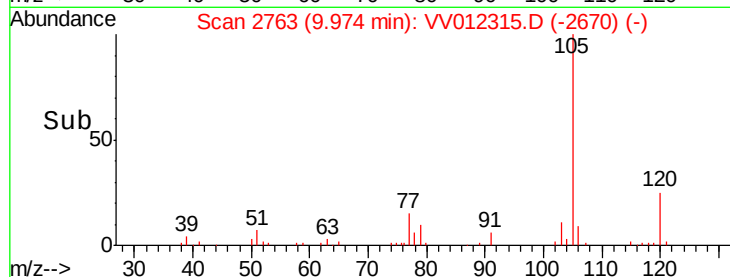
77 15.0 12.2 18.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.090 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV012315.D

Acq: 21 Aug 2019 15:23

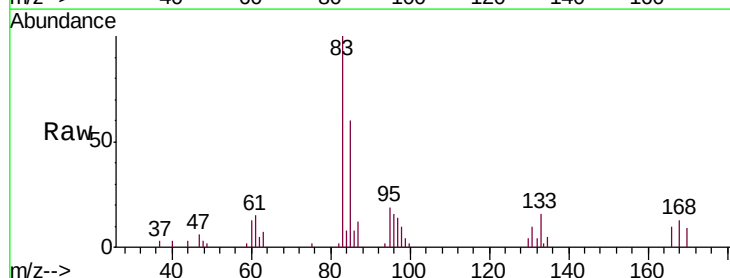
Tgt Ion: 83 Resp: 10893

Ion Ratio Lower Upper

83 100

85 59.8 44.6 82.8

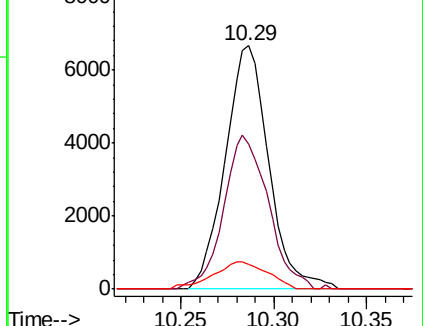
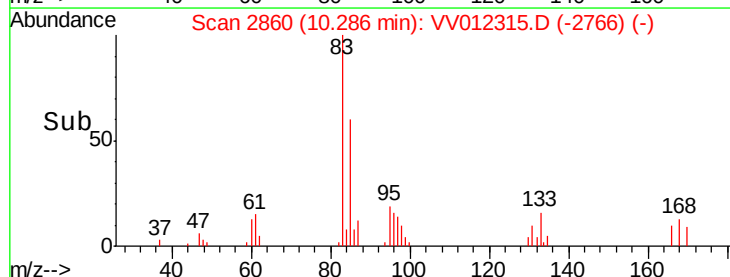
131 10.3 9.7 14.5

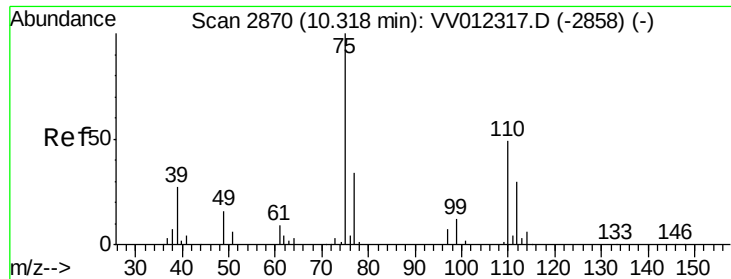


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 4.554 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV012315.D

Acq: 21 Aug 2019 15:23

Instrument :

MSVOA_V

ClientSampleId :

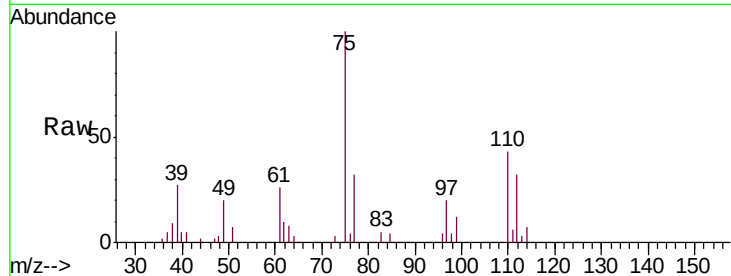
VSTD00566

Tgt Ion: 75 Resp: 9572

Ion Ratio Lower Upper

75 100

77 31.0 26.8 40.2



Abundance Ion 75.00 (74.70 to 75.70): VV012317.D (-2858) (-)

Ion 77.00 (76.70 to 77.70): VV012317.D (-2858) (-)

10.32

6000

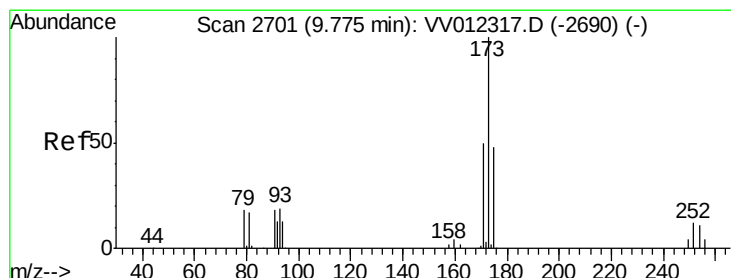
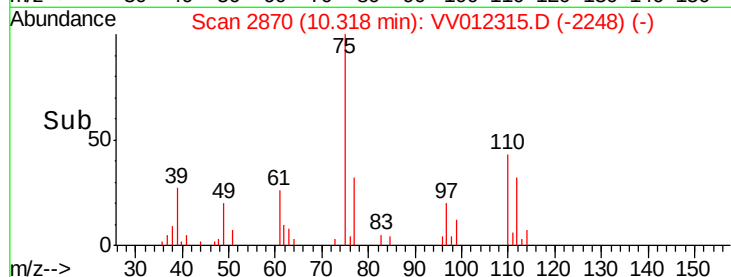
4000

2000

0

10.25 10.30 10.35

Time-->



#61

Bromoform

Concen: 5.301 ug/L

RT: 9.78 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV012315.D

Acq: 21 Aug 2019 15:23

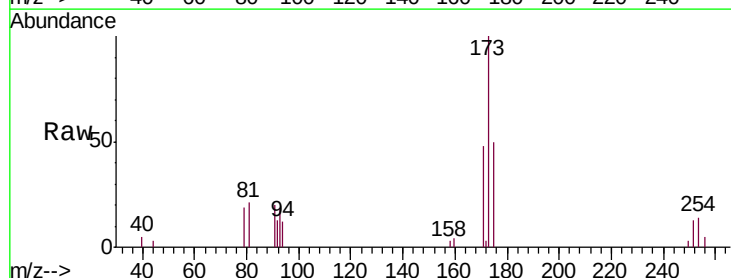
Tgt Ion: 173 Resp: 7623

Ion Ratio Lower Upper

173 100

175 44.1 39.0 58.4

254 11.4 9.3 13.9



Abundance Ion 173.00 (172.70 to 173.70): VV012317.D (-2690) (-)

Ion 175.00 (174.70 to 175.70): VV012317.D (-2690) (-)

Ion 254.00 (253.70 to 254.70): VV012317.D (-2690) (-)

9.78

6000

5000

4000

3000

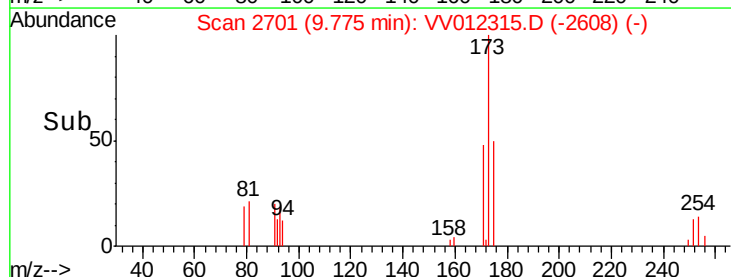
2000

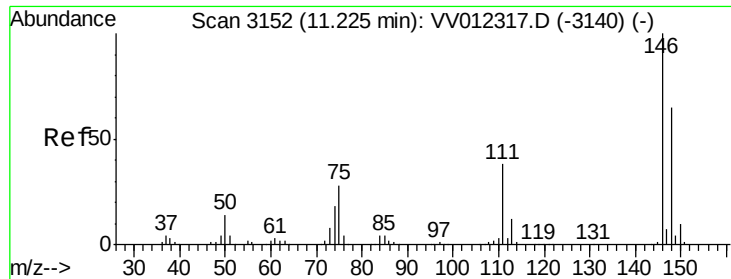
1000

0

9.75 9.80

Time-->

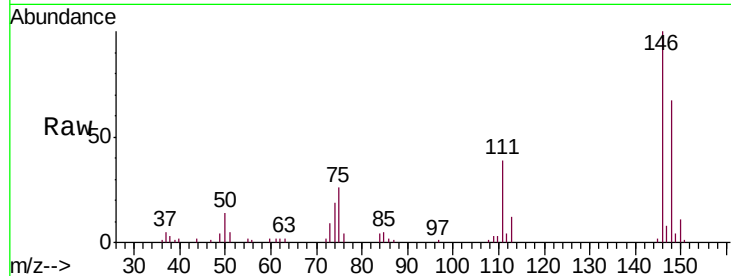




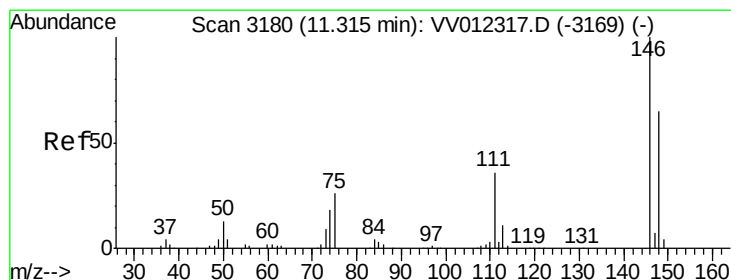
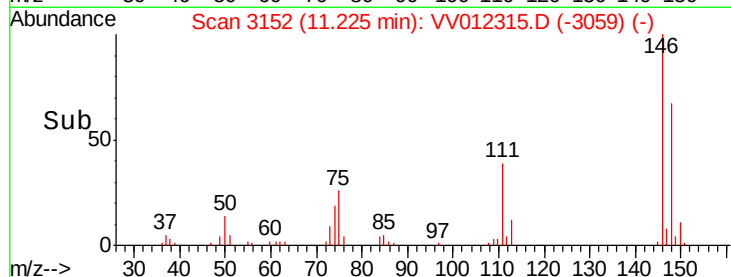
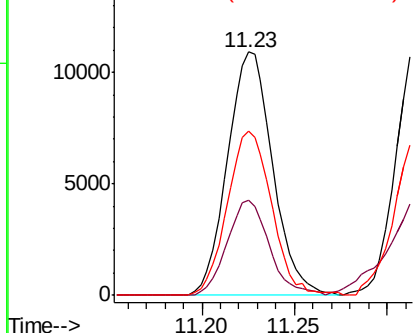
#62
 1,3-Dichlorobenzene
 Concen: 4.794 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV012315.D
 Acq: 21 Aug 2019 15:23

Instrument :
 MSVOA_V
 ClientSampled :
 VSTD00566

Tgt Ion:146 Resp: 18508
 Ion Ratio Lower Upper
 146 100
 111 39.0 26.7 49.7
 148 67.3 45.8 85.0

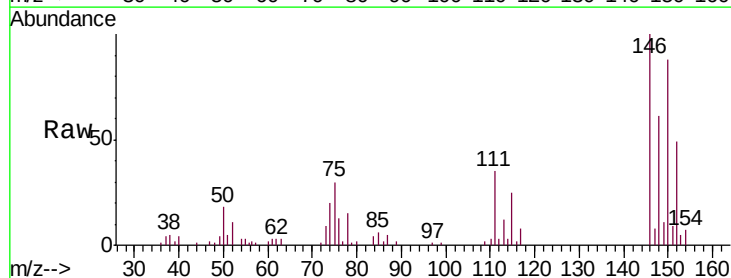


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

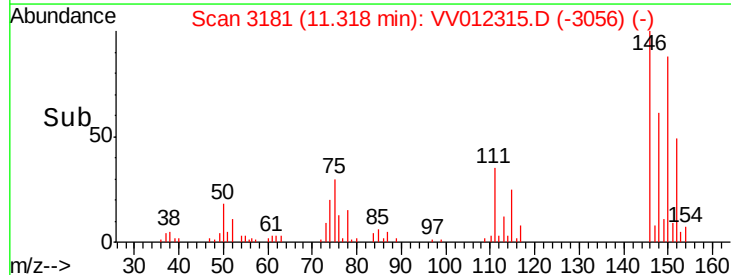
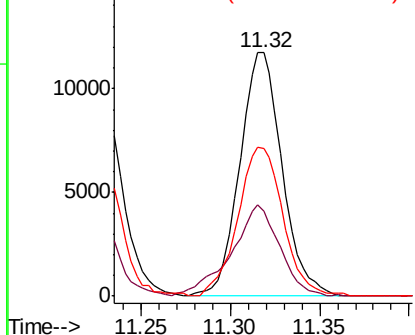


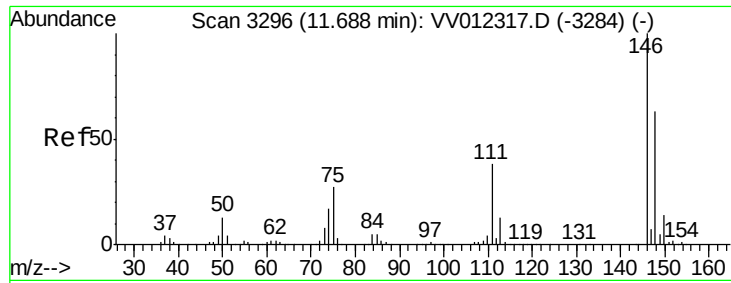
#63
 1,4-Dichlorobenzene
 Concen: 4.942 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV012315.D
 Acq: 21 Aug 2019 15:23

Tgt Ion:146 Resp: 19465
 Ion Ratio Lower Upper
 146 100
 111 34.7 25.8 47.8
 148 60.5 45.4 84.4



Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.839 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. 0.00 min

Lab File: VV012315.D

Acq: 21 Aug 2019 15:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD00566

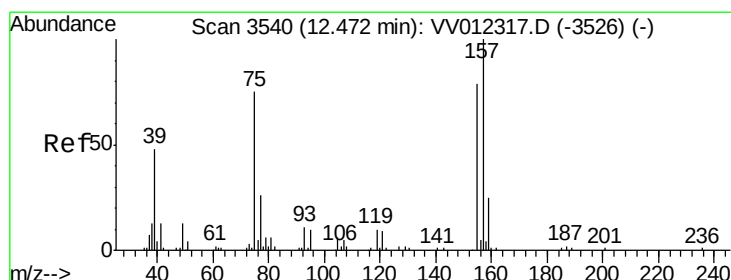
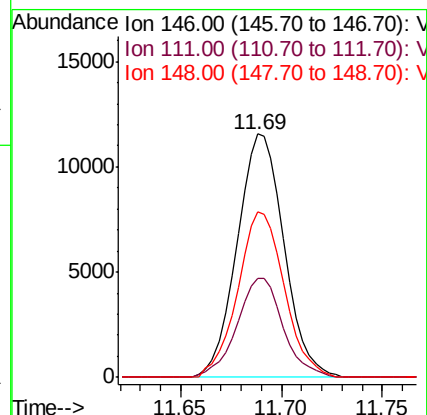
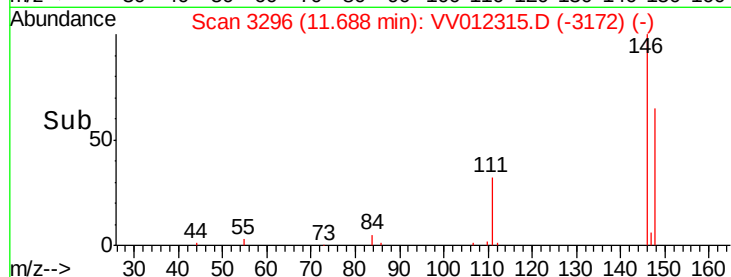
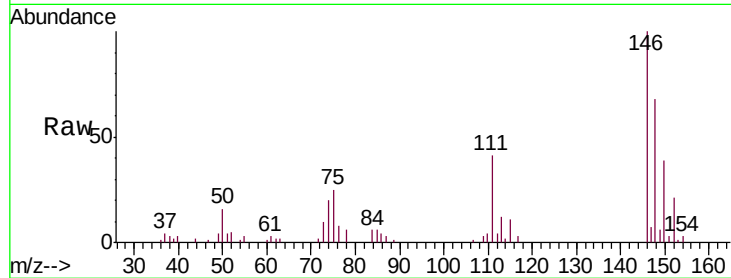
Tgt Ion:146 Resp: 18802

Ion Ratio Lower Upper

146 100

111 40.7 30.5 45.7

148 67.9 50.4 75.6



#66

1,2-Dibromo-3-chloropropane

Concen: 4.274 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. 0.01 min

Lab File: VV012315.D

Acq: 21 Aug 2019 15:23

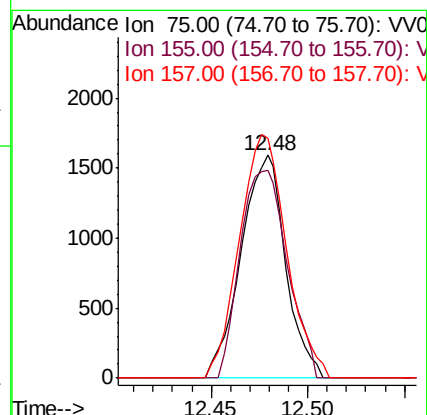
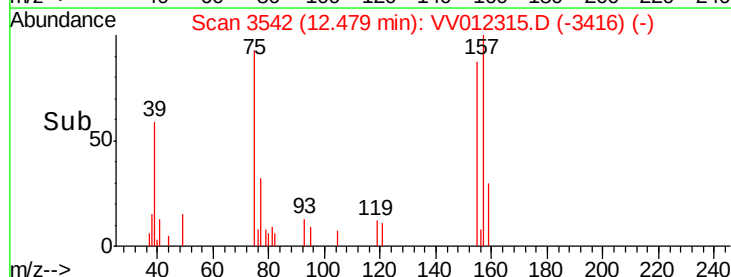
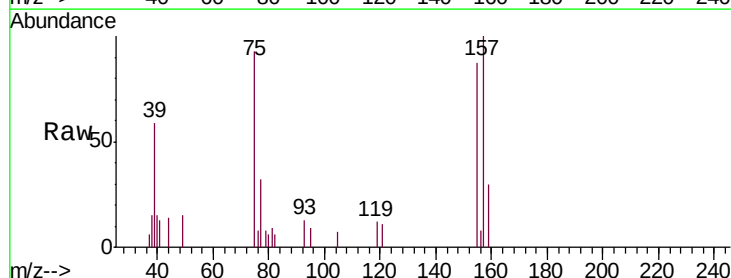
Tgt Ion: 75 Resp: 2546

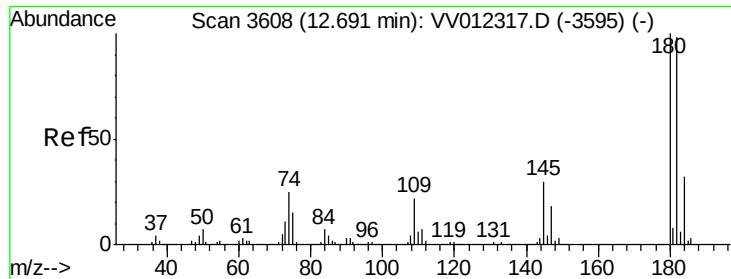
Ion Ratio Lower Upper

75 100

155 93.1 83.6 125.4

157 107.5 106.1 159.1

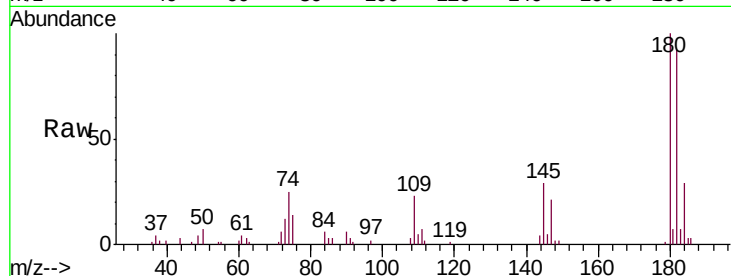




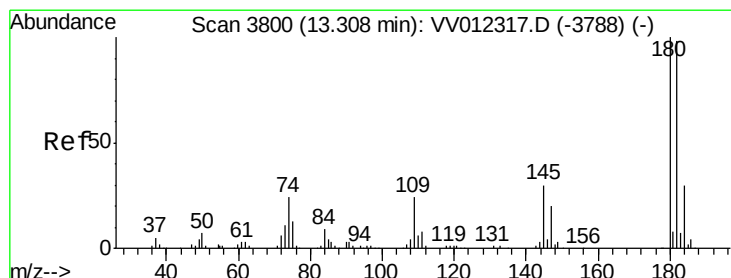
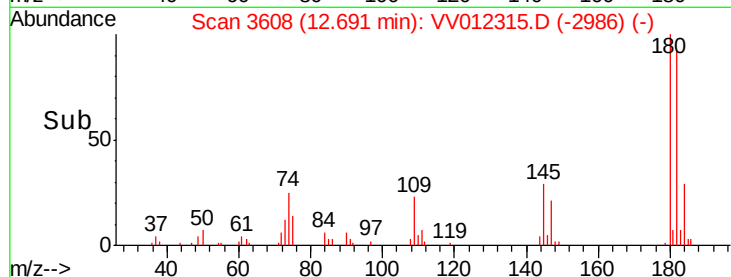
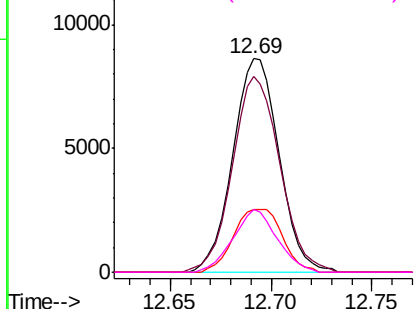
#67
 1,3,5-Trichlorobenzene
 Concen: 4.691 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV012315.D
 Acq: 21 Aug 2019 15:23

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00566

Tgt Ion:	180	Resp:	13862
Ion	Ratio	Lower	Upper
180	100		
182	93.8	77.6	116.4
184	30.9	24.9	37.3
145	28.1	23.3	34.9

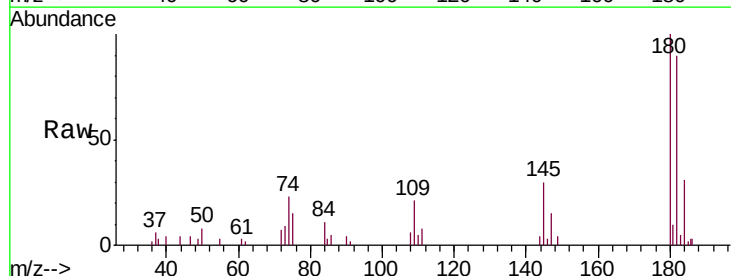


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

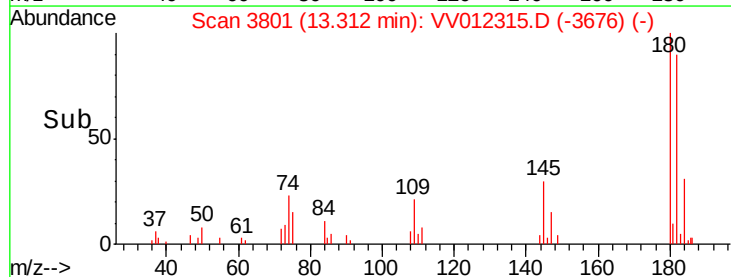
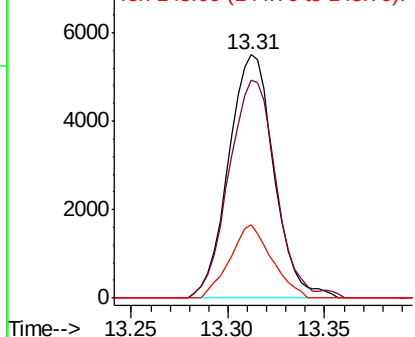


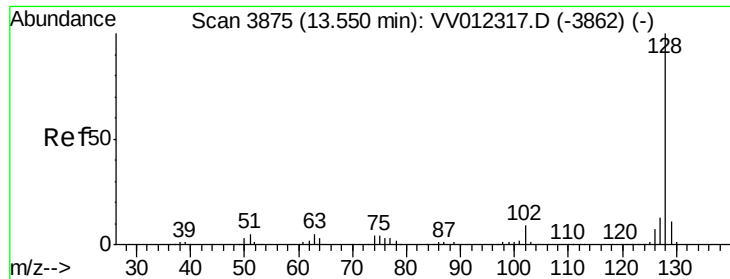
#68
 1,2,4-trichlorobenzene
 Concen: 3.681 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV012315.D
 Acq: 21 Aug 2019 15:23

Tgt Ion:	180	Resp:	8963
Ion	Ratio	Lower	Upper
180	100		
182	92.0	76.7	115.1
145	27.8	23.4	35.2



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 3.239 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV012315.D

Acq: 21 Aug 2019 15:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD00566

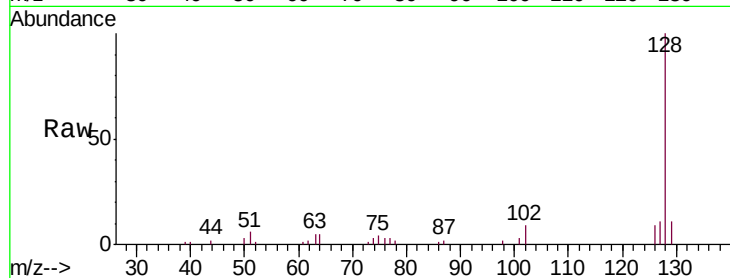
Tgt Ion:128 Resp: 22280

Ion Ratio Lower Upper

128 100

127 11.9 10.2 15.4

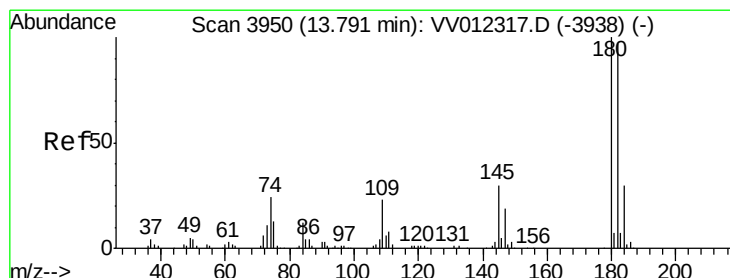
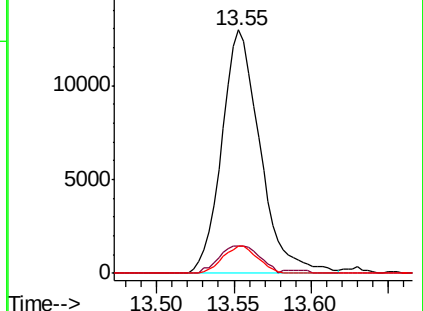
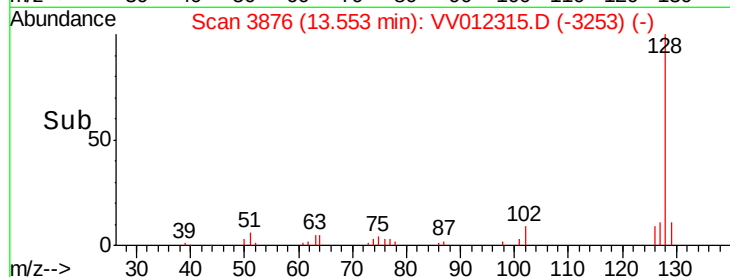
129 10.3 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 3.654 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV012315.D

Acq: 21 Aug 2019 15:23

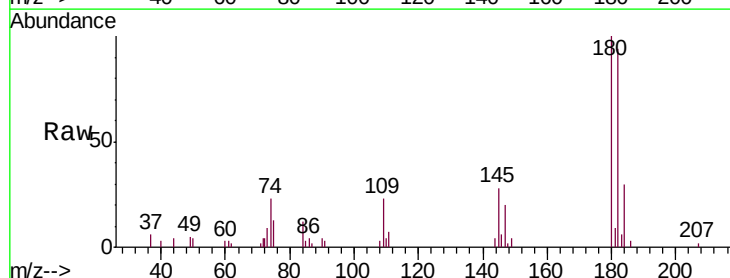
Tgt Ion:180 Resp: 9338

Ion Ratio Lower Upper

180 100

182 91.2 76.5 114.7

145 28.4 24.5 36.7



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

